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April 9, 2024

Mr. Ronnie E. Lee
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, Albany, NY 12233-7016

Re: New York State Regional Food Hub
Soil Vapor Intrusion Evaluation
Viele Avenue BCP Site (C203103) and Parcel A OU-1 Site (V00233)
Hunts Point, Bronx, New York

Dear Mr. Lee:

AKRF, Inc. (AKRF) is pleased to provide the New York State Department of Environmental Conservation (NYSDEC) and New York State Department of Health (NYSDOH) with this letter report summarizing our sampling methodology and results from the soil vapor intrusion (SVI) evaluation completed at the recently constructed New York State Regional Food Hub (NYSRFH) facility in the Hunts Point section of the Bronx, New York. The redevelopment has been constructed on two NYSDEC-regulated parcels: the Viele Avenue Brownfield Cleanup Program (BCP) site, and a portion of the former Voluntary Cleanup Program (VCP) Parcel A OU-1 site located on portions of Tax Block 2781, Lots 100 and 500 in Bronx, New York (hereinafter collectively referred to as the "Site").

Introduction and Regulatory Executive Summary

Construction of the new warehouse and distribution building has been completed, and all remedial components of construction and redevelopment are anticipated to be complete for the entire Site by summer of 2024 at this time. As part of the requirement of the September 2019 Decision Document and detailed in the NYSDEC-approved Remedial Action Work Plan (RAWP) for the Viele Avenue BCP site, a passive sub-slab depressurization system (SSDS) was approved as a remedial element of the redevelopment and a Site Management Plan (SMP) must include "a provision for evaluation of the potential for soil vapor intrusion for any occupied buildings on the site, including provision for implementing actions recommended to address exposures related to soil vapor intrusion." Details of the construction and installation of the passive SSDS were previously reported to NYSDEC/NYSDOH as part of ongoing daily reporting requirements under AKRF's oversight on behalf of the Site's Volunteer under the BCP. Further details of the installation of the passive SSDS and as-built documentation will be submitted to NYSDEC/NYSDOH as part of the Final Engineering Report (FER) for the Viele Avenue BCP site.

Per the Viele Avenue site Decision Document and RAWP, and in support of the forthcoming SMP, an SVI assessment was recently completed to evaluate the soil vapor to indoor air exposure pathway and determine the effectiveness of the vapor barrier and passive SSDS following its construction and prior to building occupancy. Based on AKRF's knowledge of these project requirements, an intended scope of work associated with the SVI assessment was submitted to NYSDEC/NYSDOH (prior to conducting any work) via email on January 31, 2024. We acknowledge and thank NYSDEC/NYSDOH for conducting a timely review of the intended scope of work to allow for the project to move toward successful completion.

AKRF's intended approach to complete the SVI assessment was conditionally approved with comments from NYSDOH via email on February 7, 2024. NYSDOH (in coordination with NYSDEC) requested that the SVI assessment include the collection and analysis of seven (instead of the six proposed) co-located indoor air and soil vapor samples to complete the assessment. NYSDOH also suggested that the ambient air sample be collected from an area representative of ambient air quality, and, if possible, to avoid collection of ambient air from the roof of the building. AKRF adjusted the intended scope to the extent possible following receipt of NYSDEC/NYSDOH's comments and has completed the assessment in accordance with proposed and requested work plan details on behalf of the Volunteer as part of BCP requirements pertaining to redevelopment of the Site. This summary letter report is hereby presented in subsections associated with completing the scope of work in accordance with applicable NYSDEC and NYSDOH regulations and technical guidance, including attachments depicting the sampling locations, and providing analytical data, third-party analytical data validation. The letter and associated attachments support AKRF's conclusions pertaining to the passive SSDS during occupancy of the facility and establish a technical basis for finalizing the forthcoming SMP to maintain protection of public health and the environment during future operations at the Site. The objective of this letter report is to seek NYSDEC/NYSDOH's review, concurrence, and ultimately approval with our recommended approach regarding the evaluation of the potential for SVI into the newly constructed building at the Site.

Pre-Sampling Inspections

AKRF completed pre-sampling inspections to document Site conditions prior to completing the SVI sampling event. The inspections were performed on February 6, 2024 and February 8, 2024 and included visual observations and screening with calibrated air sampling instrumentation in preparation for sample collection. A review of building characteristics including air flow patterns, utility usage, chemical product inventory, and the status of construction activities that have the potential to affect indoor air quality were evaluated. AKRF personnel also visually inspected the integrity of the building floor slab and collected pressure readings from each of the seven sub-slab monitoring points installed within the slab. During both the February 6 and February 8 inspections, the building slab was observed to be in good condition and no cracks or obvious penetrations (potential pathways for vapor intrusion) were observed.

During the inspections, AKRF noted that the intended natural gas-fired space heaters (wall mounted units installed throughout the first-floor warehouse space) and heating venting and air conditioning (HVAC) system units (located on the roof and intended to heat and cool a small section of 2nd floor commercial office spaces) were not yet fully operable. The permanent electrical connection to the building remains pending final connection and activation by Con Edison. At the time of AKRF's pre-sampling inspections and during the sampling event, temporary heating was provided to the building by three kerosene-fired remote heating units staged at the adjacent exteriors of the building. Each of the temporary heaters forced warmed air through ducting that originated out of the building and entered the southwestern, northwestern, and northeastern portions of the building via semi-sealed penetrations created through the loading bay doors. Some minor outdoor air infiltration into the building was noted at each of the three penetration points from gaps of approximately 2-3 inches during the pre-sampling inspections and sampling event. No other apparent indoor air interferences (from previous or ongoing construction work) or preferential pathways for vapor intrusion were observed at the pre-sampling inspection or during the sampling event. The first floor of the interior space within the building was being heated on a continual basis, and ultimately, the building characteristics under the temporary heating condition are not anticipated to be materially different in the future operating condition once the electrical service to the building is completed.

During the pre-sampling building inspection and chemical inventory, a ppbRAE™ PID capable of detecting volatile organic compounds (VOCs) in the parts per billion (ppb) range equipped with a 10.6 electron Volt (eV) lamp was used to screen indoor air throughout the entire first floor of the building for the presence of organic vapors and determine the potential for background or other interferences prior to the sampling event. No PID readings were detected above background levels following screening performed throughout the entirety of the first floor of the building during the pre-sampling inspection events.

On February 8, 2024, pressure readings were recorded at each monitoring point using a manometer to document the integrity and effectiveness of the installed passive SSDS and vapor barrier. All recorded

pressure readings indicated that the vapor barrier and passive SSDS was inducing a low, consistent vacuum beneath the floor slab. Pressure readings indicating vacuum were recorded ranging from -0.018 inches of water (inH2O) at monitoring point V-7 to -0.024 inH2O at monitoring point V-2. The negative pressure documented beneath the entire building floor slab indicates that the vapor barrier and passive SSDS prevents vapors from entering the building from below and is effectively venting sub-slab vapor to installed riser piping that discharges above the building's roof. Each of the riser stacks above the building's roof were constructed with spinning ventilator caps to allow wind above the building to assist sub-slab venting from beneath the slab. The riser stacks and ventilator caps on the roof were also inspected prior to sample collection and verified to be in good working condition.

SVI Sampling Methodology

On February 20, 2024, AKRF mobilized to perform air sample collection to conduct the SVI. A total of seven co-located soil vapor (V-01_20240220 through V-07_20240220) and indoor air samples (IA-01_20240220 through IA-07_20240220), and one ambient air sample (AA-01_20240220) were established throughout the building to complete the assessment. The seven co-located soil vapor and indoor air samples were positioned at and immediately adjacent to the seven permanent soil vapor monitoring points installed within the new building floor slab. Indoor air samples were collected from anticipated breathing spaces (approximately 3-5 feet above existing floor slab). While AKRF acknowledges NYSDOH's comment to attempt to avoid ambient air sample collection from the roof of the building, a viable location adjacent to the building could not be established at the time of the sampling event due to the observed wind direction and location of the temporary heating units staged at the exterior. Therefore, the ambient air sample was collected from the roof of the Site building in order to avoid any potential interferences from the active temporary remote heating units. All samples were collected concurrently (to the extent practicable) over an approximately 8-hour sampling period as requested by NYSDEC/NYSDOH. The approximate locations of the installed passive SSDS components and all air sample locations are shown on Attachment A.

Prior to initiating air sample collection on February 20, 2024, each of the sub-slab soil vapor points were purged using a GilAir Plus air sampling pump. During purging, a shroud was placed over the sub-slab sampling points and helium gas was introduced through a small hole in the shroud to saturate the atmosphere around the sample port with helium gas. The purged vapors were collected in a 1-liter Tedlar® bag and screened using a portable helium detector to check for short-circuiting of ambient air into the vapor sampling point, and to verify the adequacy of the seal. Helium was not detected at any of the monitoring/sampling points, indicating that all of the points passed the seal integrity tests. Purged vapors collected from each of the seven Tedlar® bags were also screened for VOCs using a calibrated PID prior to initiating vapor sample collection. Minor, low-level PID readings were detected ranging from 0.4 parts per million (ppm) at monitoring point V-01 to 0.5 ppm at monitoring point V-07. Following purging and screening, the permanent valves installed within each monitoring point were connected via new Teflon™ lined tubing to a laboratory-supplied (batch cleaned/certified) 6-Liter SUMMA® canister equipped with an 8-hour flow controller device. Following initiation of the soil vapor sample collection, a separate 6-Liter SUMMA® canister equipped with an 8-hour flow controller device was initiated in order to collect indoor air samples from the breathing zone in accordance with the NYSDEC/NYSDOH sampling procedures and protocols. Air sampling log sheets documenting sample initiation, canister identification numbers, start/stop vacuum of sampling canisters, and intermittent air screening performed during the sampling event are provided in Attachment B.

Following either the completion of the 8-hour sampling period or the observation of limited remaining vacuum within the sampling canisters, the flow controller devices were closed, and the canisters were prepared for shipment and laboratory analysis. The SUMMA® canisters were relinquished and delivered under proper chain-of-custody (COC) protocol via courier to Alpha Analytical, Inc. (Alpha Analytical) of Westborough, Massachusetts, an Environmental Laboratory Approval Program (ELAP)-certified laboratory. The samples were analyzed for VOCs in accordance with the latest applicable NYSDOH guidance at the time of the sample collection and analysis by Environmental Protection Agency (EPA) Method TO-15 (and appropriate compounds analyzed for low-level TO-15 to satisfy reporting limits) and Category B deliverables were provided in accordance with BCP requirements.

SVI Sampling Results

Soil Vapor Analytical Results

As shown on Table 1, none of the compounds detected in the soil vapor samples exhibited an exceedance of any of the applicable NYSDOH guidance values used to determine potential impacts from soil vapor intrusion. Low level concentrations of miscellaneous VOCs were detected in the sub-slab soil vapor samples, but none of the detections indicate the potential for an impact to indoor air quality from sub-slab vapor beneath the building.

Indoor and Ambient Air Analytical Results

Carbon tetrachloride was detected in six of the seven indoor air samples at concentrations slightly exceeding the lowest NYSDOH matrix A value for this analyte. None of the six indoor air detections of carbon tetrachloride exceeded 1 microgram per cubic meter $\mu g/m^3$ and carbon tetrachloride was not detected above laboratory reporting limits in any of the seven soil vapor samples collected as part of the SVI evaluation. Carbon tetrachloride was detected in the ambient air sample at a concentrations consistent with the concentrations observed in the six indoor air sample detections, and thus, these results appear to be associated with background/ambient air quality in the vicinity of the Site. While other low-level concentrations of miscellaneous VOCs were also detected in the indoor air and ambient air samples, none of these detections exceeded applicable NYSDOH guidance values.

Analytical Data Validation

A third-party Data Usability Summary Report (DUSR) was completed to evaluate data quality in accordance with BCP requirements by L.A.B. Validation Corporation. No significant DUSR qualifiers or comments were received. Updated data qualifiers were applied to the sampling results as shown in Table 1. The updated qualifications to the analytical results did not materially affect the data interpretation and the third-party data validator determined the data to be acceptable for its intended use as part of this evaluation in the BCP.

The laboratory analytical results are organized by location (vapor and indoor air locations presented side by side) and compared to applicable NYSDOH guidance values in Table 1. A copy of the Category B Deliverable laboratory analytical report is provided as Attachment C. The associated DUSR is provided as Attachment D.

Conclusions and Recommendations

The evaluation of the sub-slab vapor, indoor air, and ambient air analytical data indicated the presence of a low-level concentration of carbon tetrachloride in only the indoor and ambient air samples. No detections of carbon tetrachloride were identified in any soil vapor samples, and no other VOCs were detected at concentrations exceeding applicable NYSDOH guidance values for any of the soil vapor samples collected and analyzed as part of the evaluation. Based on the analytical results and the documented effectiveness of the passive SSDS to induce vacuum beneath the building slab, no further action or mitigation measures are recommended to address the potential for soil vapor intrusion at the Site. AKRF, on behalf of the Viele Avenue BCP site Volunteer, recommends that the SSDS remain passive (as currently constructed). This evaluation has documented that the engineering controls constructed as part of redevelopment activities will support the protection of public health for future building occupants for the intended use. These results will be incorporated into the forthcoming FER and also be referenced in establishing an appropriate monitoring plan in the forthcoming SMP for the Site.

If you have any questions or require further information, please contact Dustin Kapson at (646) 388-9767 or dkapson@akrf.com or Steve Grens at (203) 810-6513 or sgrens@akrf.com.

Sincerely,
AKRF, Inc.

Dustin A. Kapson, LSRP
Vice President

Stephen Grens
Senior Environmental Scientist

cc: M. Godick – AKRF, Inc.
R. Kinal – AKRF, Inc.

Enc.

Table 1 – Sub-Slab Soil Vapor, Indoor Air, and Ambient Air Analytical Results of VOCs
Attachment A - SSDS and SVI Sample Location Map
Attachment B - Air Sampling Logs
Attachment C - Laboratory Data Analytical Report
Attachment D - Data Usability Summary Report (DUSR)

TABLE

Table 1
New York State Regional Food Hub
1400 Viele Avenue, Bronx, NY
Soil Vapor Intrusion Assessment
Sub-Slab Soil Vapor, Indoor Air, and Ambient Air Analytical Results of VOCs

							AKRF Sample ID	V-01_20240220	IA-01_20240220	V-02_20240220	IA-02_20240220	V-03_20240220	IA-03_20240220
							Laboratory Sample ID	L2409206-01	L2409206-02	L2409206-03	L2409206-04	L2409206-05	L2409206-06
							Air Sample Matrix	Vapor	Indoor Air	Vapor	Indoor Air	Vapor	Indoor Air
							Date Sampled	2/20/2024	2/20/2024	2/20/2024	2/20/2024	2/20/2024	2/20/2024
							Unit	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3
							Dilution Factor	1	1	1	1	1	1
	NYSDOH Matrix Value												
Compound	**Soil Vapor**			**Indoor Air**				CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	<100	100 to <1,000	1,000	<3	3 to <10	10		1.09 U	0.109 U	1.09 U	0.109 U	1.09 U	0.109 U
1,1,2,2-Tetrachloroethane	NS	NS	NS	NS	NS	NS		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 (Freon TF)	NS	NS	NS	NS	NS	NS		1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	NS	NS	NS	NS	NS	NS		1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	NS	NS	NS	NS	NS	NS		0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	<6	6 to <60	60	<0.2	0.2 to <1	1		0.793 U	0.079 U	0.793 U	0.079 U	0.793 U	0.079 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	NS		1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	<60	60 to <600	600	<2	2 to <10	10		2.28	0.983 U	1.96	0.983 U	2.53	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	NS	NS	NS	NS		1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	NS	NS	NS	NS	NS	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	NS	NS	NS	NS	NS	NS		0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	NS	NS	NS	NS	NS	NS		0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	NS	NS	NS	NS	NS	NS		1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	<60	60 to <600	600	<2	2 to <10	10		0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	NS	NS	NS	NS	NS	NS		0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	NS	NS	NS	NS	NS	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	NS	NS	NS	NS	NS	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2,4-Trimethylpentane	<60	60 to <600	600	<2	2 to <10	10		0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	NS	NS	NS	NS	NS	NS		0.82 U	0.82 U	0.82 U	0.82 U	0.865	0.82 U
4-Ethyltoluene	NS	NS	NS	NS	NS	NS		0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	NS	NS	NS	NS	NS	NS		12.1	2.38 U	16.2	2.38 U	27.8	2.9
Allyl Chloride (3-Chloropropene)	NS	NS	NS	NS	NS	NS		0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	<60	60 to <600	600	<2	2 to <10	10		0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U
Benzyl Chloride	NS	NS	NS	NS	NS	NS		1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	NS	NS	NS	NS	NS	NS		1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	NS	NS	NS	NS	NS	NS		2.07 UJ	2.07 UJ	2.07 UJ	2.07 UJ	2.07 UJ	2.07 UJ
Bromomethane	NS	NS	NS	NS	NS	NS		0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	NS	NS	NS	NS	NS	NS		0.623 U	0.623 U	1.59	0.623 U	2.04	0.623 U
Carbon Tetrachloride	<6	6 to <60	60	<0.2	0.2 to <1	1		1.26 U	0.459	1.26 U	0.126 U	1.26 U	0.447
Chlorobenzene	NS	NS	NS	NS	NS	NS		0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	NS	NS	NS	NS	NS	NS		0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	NS	NS	NS	NS	NS	NS		0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	NS	NS	NS	NS	NS	NS		1.39	1.23	6.07	1.23	3.76	1.2
Cis-1,2-Dichloroethylene	<6	6 to <60	60	<0.2	0.2 to <1	1		0.793 U	0.079 U	0.793 U	0.079 U	0.793 U	0.079 U
Cis-1,3-Dichloropropene	NS	NS	NS	NS	NS	NS		0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	<60	60 to <600	600	<2	2 to <10	10		0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	NS	NS	NS	NS	NS	NS		1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS		2.12	2.65	2	2.62	1.95	2.56
Ethanol	NS	NS	NS	NS	NS	NS		11.9	9.42 U	20.3	9.42 U	38.4	9.42 U
Ethyl Acetate	NS	NS	NS	NS	NS	NS		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	<60	60 to <600	600	<2	2 to <10	10		1.02	0.869 U	1.21	0.869 U	1.17	0.869 U
Hexachlorobutadiene	NS	NS	NS	NS	NS	NS		2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	NS	NS	NS	NS	NS	NS		2.65	1.23 U	8.75	1.23 U	2.33	13.8
M,P-Xylenes	<200	200 to <2,000	2,000	<6	6 to <20	20		3.71	1.74 U	5.17	1.74 U	5.13	1.74 U
Methyl Ethyl Ketone (2-Butanone)	NS	NS	NS	NS	NS	NS		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)	NS	NS	NS	NS	NS	NS		2.05 U	2.05 U	7.29	2.05 U	2.05 U	2.05 U
Methylene Chloride	<100	100 to <1,000	1,000	<3	3 to <10	10		1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.92
N-Heptane	<200	200 to <2,000	2,000	<6	6 to <20	20		0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	<200	200 to <2,000	2,000	<6	6 to <20	20		0.705 U	0.705 U	0.705 U	0.705 U	0.747	0.705 U
O-Xylene (1,2-Dimethylbenzene)	<60	60 to <600	600	<2	2 to <10	10		1.61	0.869 U	1.94	0.869 U	2.26	0.869 U
Styrene	NS	NS	NS	NS	NS	NS		0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	NS	NS	NS	NS	NS	NS		1.52 U	1.52 U	3.46	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	NS	NS	NS	NS	NS	NS		0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrachloroethylene (PCE)	<100	100 to <1,000	1,000	<3	3 to <10	10		1.36 U	0.136 U	1.36 U	0.136 U	1.36 U	0.136 U
Tetrahydrofuran	NS	NS	NS	NS	NS	NS		2.18	1.47 U	4.51	1.47 U	4.98	1.47 U
Toluene	<300	300 to <3,000	3,000	<10	10 to <50	50		1.92	0.754 U	2.56	0.754 U	11.3	0.754 U
Trans-1,2-Dichloroethene	NS	NS	NS	NS	NS	NS		0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	NS	NS	NS	NS	NS	NS		0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichloroethylene (TCE)	<6	6 to <60	60	<0.2	0.2 to <1	1		1.07 U	0.107 U	1.07 U	0.107 U	1.07 U	0.107 U
Trichlorofluoromethane	NS	NS	NS	NS	NS	NS		1.8	1.48	1.12 U	1.51	1.2	1.44
Vinyl Bromide	NS	NS	NS	NS	NS	NS		0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl Chloride	<6	6 to <60	60	<0.2	NS	0.2		0.511 U	0.051 U	0.511 U	0.051 U	0.511 U	0.051 U

Table 1
New York State Regional Food Hub
1400 Viele Avenue, Bronx, NY
Soil Vapor Intrusion Assessment
Sub-Slab Soil Vapor, Indoor Air, and Ambient Air Analytical Results of VOCs

							AKRF Sample ID	V-04_20240220	IA-04_20240220	V-05_20240220	IA-05_20240220	V-06_20240220	IA-06_20240220
							Laboratory Sample ID	L2409206-07	L2409206-08	L2409206-09	L2409206-10	L2409206-11	L2409206-12
							Air Sample Matrix	Vapor	Indoor Air	Vapor	Indoor Air	Vapor	Indoor Air
							Date Sampled	2/20/2024	2/20/2024	2/20/2024	2/20/2024	2/20/2024	2/20/2024
							Unit	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
							Dilution Factor	1	1	1	1	1	1
	NYSDOH Matrix Value												
Compound	**Soil Vapor**			**Indoor Air**				CONC Q	CONC Q	CONC Q	CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	<100	100 to <1,000	1,000	<3	3 to <10	10		1.09 U	0.109 U	1.09 U	0.109 U	1.09 U	0.109 U
1,1,2,2-Tetrachloroethane	NS	NS	NS	NS	NS	NS		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 (Freon TF)	NS	NS	NS	NS	NS	NS		1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	NS	NS	NS	NS	NS	NS		1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	NS	NS	NS	NS	NS	NS		0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	<6	6 to <60	60	<0.2	0.2 to <1	1		0.793 U	0.079 U	0.793 U	0.079 U	0.793 U	0.079 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	NS		1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	<60	60 to <600	600	<2	2 to <10	10		2.03	0.983 U	2.4	0.983 U	2.41	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	NS	NS	NS	NS		1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	NS	NS	NS	NS	NS	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	NS	NS	NS	NS	NS	NS		0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	NS	NS	NS	NS	NS	NS		0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	NS	NS	NS	NS	NS	NS		1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	<60	60 to <600	600	<2	2 to <10	10		0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	NS	NS	NS	NS	NS	NS		0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	NS	NS	NS	NS	NS	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	NS	NS	NS	NS	NS	NS		1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2,2,4-Trimethylpentane	<60	60 to <600	600	<2	2 to <10	10		0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	NS	NS	NS	NS	NS	NS		0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	NS	NS	NS	NS	NS	NS		0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	NS	NS	NS	NS	NS	NS		39.7	2.38 U	21.2	2.38 U	14.3	2.38 U
Allyl Chloride (3-Chloropropene)	NS	NS	NS	NS	NS	NS		0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	<60	60 to <600	600	<2	2 to <10	10		0.639 U	0.639 U	0.639 U	0.639 U	0.78	0.639 U
Benzyl Chloride	NS	NS	NS	NS	NS	NS		1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	NS	NS	NS	NS	NS	NS		1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	NS	NS	NS	NS	NS	NS		2.07 UJ	2.07 UJ	2.07 UJ	2.07 UJ	2.07 UJ	2.07 UJ
Bromomethane	NS	NS	NS	NS	NS	NS		0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	NS	NS	NS	NS	NS	NS		1.44	0.623 U	0.638	0.623 U	1.02	0.623 U
Carbon Tetrachloride	<6	6 to <60	60	<0.2	0.2 to <1	1		1.26 U	0.447	1.26 U	0.472	1.26 U	0.516
Chlorobenzene	NS	NS	NS	NS	NS	NS		0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	NS	NS	NS	NS	NS	NS		0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U
Chloroform	NS	NS	NS	NS	NS	NS		0.977 U	0.977 U	8.35	0.977 U	0.977 U	0.977 U
Chloromethane	NS	NS	NS	NS	NS	NS		3.08	1.26	1.09	1.26	3.68	1.18
Cis-1,2-Dichloroethylene	<6	6 to <60	60	<0.2	0.2 to <1	1		0.793 U	0.079 U	0.793 U	0.079 U	0.793 U	0.079 U
Cis-1,3-Dichloropropene	NS	NS	NS	NS	NS	NS		0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	<60	60 to <600	600	<2	2 to <10	10		0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	NS	NS	NS	NS	NS	NS		1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS		1.81	2.59	1.79	2.71	1.76	2.61
Ethanol	NS	NS	NS	NS	NS	NS		9.42 U	9.42 U	27.5	9.42 U	37.5	9.42 U
Ethyl Acetate	NS	NS	NS	NS	NS	NS		1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	<60	60 to <600	600	<2	2 to <10	10		1.22	0.869 U	1.54	0.869 U	1.68	0.869 U
Hexachlorobutadiene	NS	NS	NS	NS	NS	NS		2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	NS	NS	NS	NS	NS	NS		1.24	1.23 U	4.74	1.23 U	6.19	1.23 U
M,P-Xylenes	<200	200 to <2,000	2,000	<6	6 to <20	20		4.82	1.74 U	5.95	1.74 U	6.82	1.74 U
Methyl Ethyl Ketone (2-Butanone)	NS	NS	NS	NS	NS	NS		1.47 U	1.47 U	1.47 U	1.47 U	1.72	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	NS	NS	NS	NS		2.55	2.05 U	2.05 U	2.05 U	3.17	3.07
Methylene Chloride	<100	100 to <1,000	1,000	<3	3 to <10	10		1.74 U	2.46	1.88	1.74 U	1.74 U	1.74 U
N-Heptane	<200	200 to <2,000	2,000	<6	6 to <20	20		0.82 U	0.82 U	0.992	0.82 U	0.996	0.82 U
N-Hexane	<200	200 to <2,000	2,000	<6	6 to <20	20		0.705 U	0.705 U	0.705 U	0.705 U	0.828	0.705 U
O-Xylene (1,2-Dimethylbenzene)	<60	60 to <600	600	<2	2 to <10	10		1.72	0.869 U	2.13	0.869 U	2.46	0.869 U
Styrene	NS	NS	NS	NS	NS	NS		0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	NS	NS	NS	NS	NS	NS		4.15	1.52 U	1.52 U	1.52 U	4.46	1.52 U
Tert-Butyl Methyl Ether	NS	NS	NS	NS	NS	NS		0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrachloroethylene (PCE)	<100	100 to <1,000	1,000	<3	3 to <10	10		1.36 U	0.136 U	1.36 U	0.136 U	1.36 U	0.136 U
Tetrahydrofuran	NS	NS	NS	NS	NS	NS		18.9	1.47 U	1.83	1.47 U	14.4	1.47 U
Toluene	<300	300 to <3,000	3,000	<10	10 to <50	50		3.14	0.754 U	3.84	0.754 U	4.52	0.754 U
Trans-1,2-Dichloroethene	NS	NS	NS	NS	NS	NS		0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.971
Trans-1,3-Dichloropropene	NS	NS	NS	NS	NS	NS		0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichloroethylene (TCE)	<6	6 to <60	60	<0.2	0.2 to <1	1		1.07 U	0.107 U	1.07 U	0.107 U	1.07 U	0.107 U
Trichlorofluoromethane	NS	NS	NS	NS	NS	NS		2.2	1.51	1.31	1.59	5.53	1.51
Vinyl Bromide	NS	NS	NS	NS	NS	NS		0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U
Vinyl Chloride	<6	6 to <60	60	<0.2	NS	0.2		0.511 U	0.051 U	0.511 U	0.051 U	0.511 U	0.051 U

Table 1
New York State Regional Food Hub
1400 Viele Avenue, Bronx, NY
Soil Vapor Intrusion Assessment
Sub-Slab Soil Vapor, Indoor Air, and Ambient Air Analytical Results of VOCs

						AKRF Sample ID	V-07_20240220	IA-07_20240220	AA-01_20240220
						Laboratory Sample ID	L2409206-13	L2409206-14	L2409206-15
						Air Sample Matrix	Vapor	Indoor Air	Ambient Air
						Date Sampled	2/20/2024	2/20/2024	2/20/2024
						Unit	µg/m^3	µg/m^3	µg/m^3
						Dilution Factor	1	1	1
	NYSDOH Matrix Value								
Compound	**Soil Vapor**			**Indoor Air**			CONC Q	CONC Q	CONC Q
1,1,1-Trichloroethane	<100	100 to <1,000	1,000	<3	3 to <10	10	1.09 U	0.109 U	0.109 U
1,1,2,2-Tetrachloroethane	NS	NS	NS	NS	NS	NS	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane (Freon TF)	NS	NS	NS	NS	NS	NS	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	NS	NS	NS	NS	NS	NS	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	NS	NS	NS	NS	NS	NS	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	<6	6 to <60	60	<0.2	0.2 to <1	1	0.793 U	0.079 U	0.079 U
1,2,4-Trichlorobenzene	NS	NS	NS	NS	NS	NS	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	<60	60 to <600	600	<2	2 to <10	10	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NS	NS	NS	NS	NS	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	NS	NS	NS	NS	NS	NS	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	NS	NS	NS	NS	NS	NS	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	NS	NS	NS	NS	NS	NS	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	NS	NS	NS	NS	NS	NS	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	<60	60 to <600	600	<2	2 to <10	10	0.983 U	0.983 U	0.983 U
1,3-Butadiene	NS	NS	NS	NS	NS	NS	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	NS	NS	NS	NS	NS	NS	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	NS	NS	NS	NS	NS	NS	1.2 U	1.2 U	1.2 U
2,2,4-Trimethylpentane	<60	60 to <600	600	<2	2 to <10	10	5.23	0.934 U	0.934 U
2-Hexanone	NS	NS	NS	NS	NS	NS	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	NS	NS	NS	NS	NS	NS	0.983 U	0.983 U	0.983 U
Acetone	NS	NS	NS	NS	NS	NS	8.88	2.38 U	3.37
Allyl Chloride (3-Chloropropene)	NS	NS	NS	NS	NS	NS	0.626 U	0.626 U	0.626 U
Benzene	<60	60 to <600	600	<2	2 to <10	10	1.05	0.639 U	0.639 U
Benzyl Chloride	NS	NS	NS	NS	NS	NS	1.04 U	1.04 U	1.04 U
Bromodichloromethane	NS	NS	NS	NS	NS	NS	1.34 U	1.34 U	1.34 U
Bromoform	NS	NS	NS	NS	NS	NS	2.07 UJ	2.07 UJ	2.07 UJ
Bromomethane	NS	NS	NS	NS	NS	NS	0.777 U	0.777 U	0.777 U
Carbon Disulfide	NS	NS	NS	NS	NS	NS	0.629	0.623 U	0.623 U
Carbon Tetrachloride	<6	6 to <60	60	<0.2	0.2 to <1	1	1.26 U	0.421	0.484
Chlorobenzene	NS	NS	NS	NS	NS	NS	0.921 U	0.921 U	0.921 U
Chloroethane	NS	NS	NS	NS	NS	NS	0.528 U	0.528 U	0.528 U
Chloroform	NS	NS	NS	NS	NS	NS	0.977 U	0.977 U	0.977 U
Chloromethane	NS	NS	NS	NS	NS	NS	2.66	1.2	1.26
Cis-1,2-Dichloroethylene	<6	6 to <60	60	<0.2	0.2 to <1	1	0.793 U	0.079 U	0.079 U
Cis-1,3-Dichloropropene	NS	NS	NS	NS	NS	NS	0.908 U	0.908 U	0.908 U
Cyclohexane	<60	60 to <600	600	<2	2 to <10	10	0.688 U	0.688 U	0.688 U
Dibromochloromethane	NS	NS	NS	NS	NS	NS	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	NS	NS	NS	NS	NS	NS	1.8	2.61	2.62
Ethanol	NS	NS	NS	NS	NS	NS	23.7	9.42 U	9.42 U
Ethyl Acetate	NS	NS	NS	NS	NS	NS	1.8 U	1.8 U	1.8 U
Ethylbenzene	<60	60 to <600	600	<2	2 to <10	10	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	NS	NS	NS	NS	NS	NS	2.13 U	2.13 U	2.13 U
Isopropanol	NS	NS	NS	NS	NS	NS	2.58	1.23 U	1.23 U
M,P-Xylenes	<200	200 to <2,000	2,000	<6	6 to <20	20	2.74	1.74 U	1.74 U
Methyl Ethyl Ketone (2-Butanone)	NS	NS	NS	NS	NS	NS	3.54	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NS	NS	NS	NS	NS	2.05 U	2.05 U	2.05 U
Methylene Chloride	<100	100 to <1,000	1,000	<3	3 to <10	10	2	1.74 U	1.74 U
N-Heptane	<200	200 to <2,000	2,000	<6	6 to <20	20	1.46	0.82 U	0.82 U
N-Hexane	<200	200 to <2,000	2,000	<6	6 to <20	20	1.79	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	<60	60 to <600	600	<2	2 to <10	10	0.969	0.869 U	0.869 U
Styrene	NS	NS	NS	NS	NS	NS	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	NS	NS	NS	NS	NS	NS	6.4	1.52 U	1.52 U
Tert-Butyl Methyl Ether	NS	NS	NS	NS	NS	NS	0.721 U	0.721 U	0.721 U
Tetrachloroethylene (PCE)	<100	100 to <1,000	1,000	<3	3 to <10	10	1.36 U	0.136 U	0.136 U
Tetrahydrofuran	NS	NS	NS	NS	NS	NS	2.14	1.47 U	1.47 U
Toluene	<300	300 to <3,000	3,000	<10	10 to <50	50	2.91	0.754 U	0.754 U
Trans-1,2-Dichloroethene	NS	NS	NS	NS	NS	NS	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	NS	NS	NS	NS	NS	NS	0.908 U	0.908 U	0.908 U
Trichloroethylene (TCE)	<6	6 to <60	60	<0.2	0.2 to <1	1	1.07 U	0.107 U	0.107 U
Trichlorofluoromethane	NS	NS	NS	NS	NS	NS	1.33	1.51	1.49
Vinyl Bromide	NS	NS	NS	NS	NS	NS	0.874 U	0.874 U	0.874 U
Vinyl Chloride	<6	6 to <60	60	<0.2	NS	0.2	0.511 U	0.051 U	0.051 U

Table 1
New York State Regional Food Hub
1400 Viele Avenue, Bronx, NY
Soil Vapor Intrusion Assessment
Notes

DEFINITIONS

NS : No standard.

U : The analyte was not detected at the indicated concentration.

µg/m^3 : micrograms per cubic meter of air

STANDARDS

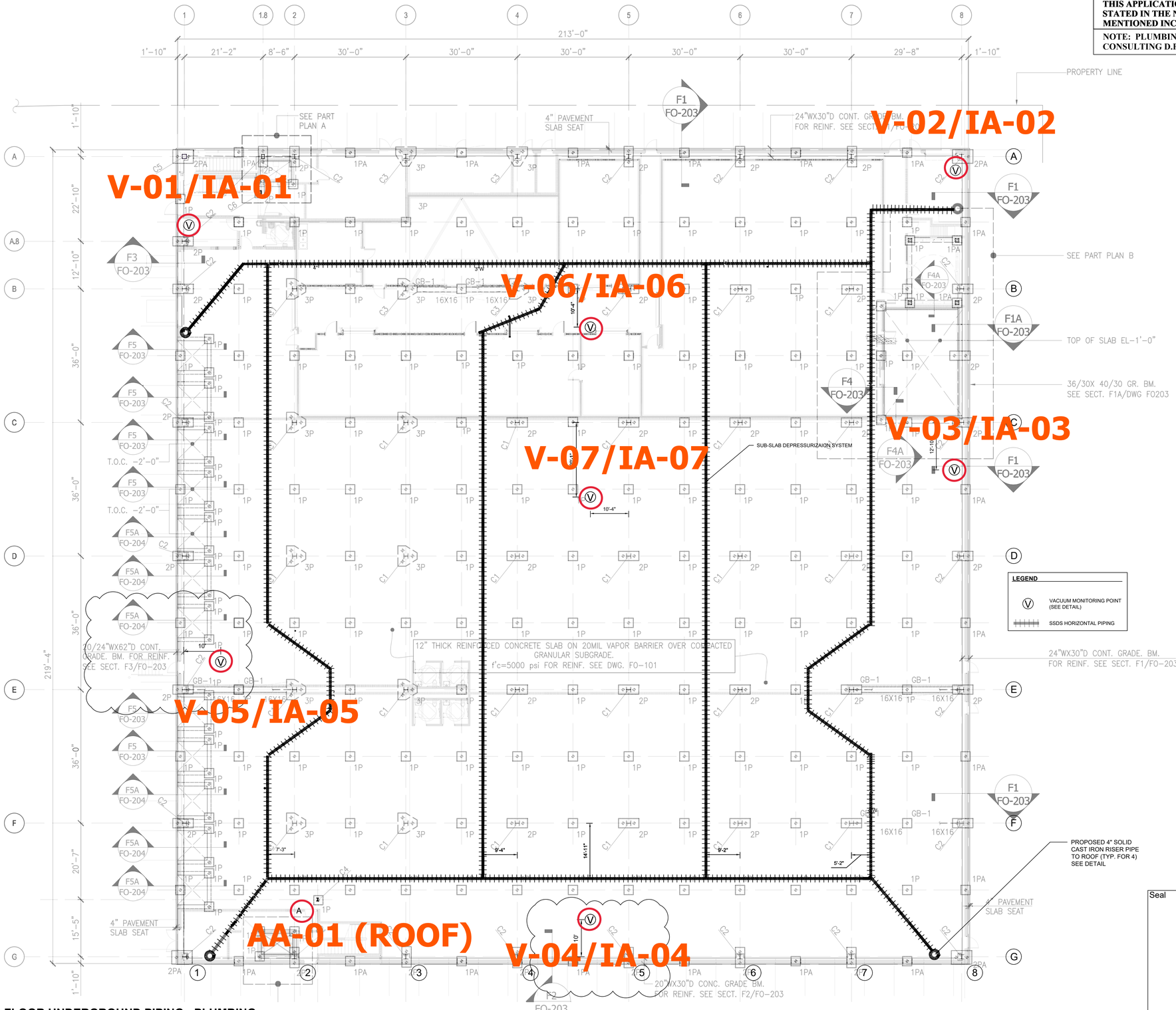
NYSDOH Soil Vapor Intrusion Air Guidance Value	:	NYSDOH Air Guideline Values (AGVs) in the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, dated October 2006 ("NYSDOH Vapor Intrusion Guidance Document"), updated September 2013 for change of AGV for PCE, August 2015 for TCE, the May 2017 NYSDOH Matrices A, B, and C for PCE, TCE, c1,2-DCE, 1,1-DCE, carbon tetrachloride, 1,1,1-TCA, methylene chloride, and vinyl chloride, and the February 2024 NYSDOH Matrices D, E, and F for benzene, ethylbenzene, naphthalene, cyclohexane, isooctane (2,2,4-trimethylpentane), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, o-xylene, m-xylene, p-xylene, heptane, hexane, and toluene. The matrix values listed are the sub-slab soil vapor concentrations where mitigation is recommended regardless of the indoor air concentration, and the indoor air concentrations where mitigation is recommended regardless of the sub-slab soil vapor concentration.

Exceedances of NYSDOH Soil Vapor Matrix Values are highlighted in bold font.
Exceedances of NYSDOH Indoor Air Matrix Values are highlighted in gray shading.

ATTACHMENT A

NOTE: ALL REQUIREMENTS FOR ALL CODES PERTAINING TO THIS APPLICATION APPLY WHETHER THEY ARE DIRECTLY STATED IN THE NOTES AND SPECIFICATIONS OR ARE NOT MENTIONED INCLUDING OSHA REGULATIONS.

NOTE: PLUMBING PLAN VIEW BY A&M ENGINEERING CONSULTING D.P.C.



PLAN VIEW - 1st FLOOR UNDERGROUND PIPING - PLUMBING

SCALE: 3/32" = 1'

AMM ENGINEERING P.C.
Consulting & Structural Engineers

321 Elwood Avenue
Hawthorne, New York 10532
Tel: (914) 495-3328 Fax: (914) 495-3331

Anthony M. Monaco, P.E. #61354

Client:
Bedrock Plumbing & Heating Inc.
101-14 Jamaica Avenue
Richmond Hill, NY 11418

Project Information

Shop Drawings - Underground Piping

Regional Food Hub
298 Halleck Street
Ridgewood, NY 11385

Block:	2781
Lot:	300
BIN#:	
Community Board:	202
Zoning:	M3-1
Zoning Map:	6c

Notice

IN THE CASE THAT ANY ACTIONS OR LAWSUITS OCCUR IN WHOLE OR PART FROM ANY UNDERTAKING OR NEGLIGENCE OF THE CONTRACTOR, OWNER OR SUBCONTRACTOR, OR ANYONE DIRECTLY OR INDIRECTLY EMPLYOYED BY THEM, ANTHONY M. MONACO, P.E. SHALL BE ABSOLVED OF ALL EXPENSES AND ATTORNEY FEES.

AS PER THE PROVISIONS SET FORTH BY ARTICLE-145 SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW, IT IS A VIOLATION OF THE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THESE PLANS IN ANY WAY.

COPIES OF THESE PLANS NOT BEARING THE INKED OR EMBOSSED SEAL OF A PROFESSIONAL ENGINEER SHALL NOT BE CONSIDERED A VALID COPY.

Revisions:

02-10-2022: PROVIDE DIMENSIONS FOR VACUUM MONITORING WELLS AS REQUESTED BY RFI#: 084

Drawing Title:

PLAN VIEW

Date:	February 10, 2022
Floor:	001
Drawn By:	CJM
Checked By	Anthony M. Monaco
Project:	
Scale:	As Noted
Sheet No.:	2 of 4

Seal

DOB Approvals

Building Department
Application #:

Page:

SK-101.01

ATTACHMENT B

Soil Vapor Sample Log

AKRF Project No:	210121	**Sampled By:**	M. Fleming
Project Location:	Grow NYC	**Weather:**	24-37°F, Sunny, Wind NE 5 mph
Client:	Grow NYC		
Date:	2/20/2024		

Sample Setup

Vapor Point Depth:	6	Inches	**Total Time of Purge:**	8 minutes	
Purging Pump:	Gilair Plus		**Purge Volume:**	2 liters	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	0.3	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**V-1**	**SUMMA® Canister ID:**	**806**
Flow Controller ID:	**02059**	**Soil Vapor Sample ID:**	**V-01_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	**9:45**	-30.25	0	None
Time Halfway:	**13:30**	-18.29	0	None
Time Stopped:	**17:08**	-7.88	0	None

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample V-01_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210121	**Sampled By:**	M. Fleming
Project Location:	Grow NYC	**Weather:**	24-37°F, Sunny, Wind NE 5 mph
Client:	Grow NYC		
Date:	2/20/2024		

Sample Setup

Vapor Point Depth:	6	Inches	**Total Time of Purge:**	7 minutes	
Purging Pump:	Gilair Plus		**Purge Volume:**	2 liters	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	0.4	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**V-2**	**SUMMA® Canister ID:**	**3627**
Flow Controller ID:	**0162**	**Soil Vapor Sample ID:**	**V-02_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	**9:59**	-30.74	0	None
Time Halfway:	**13:45**	-17.58	0	None
Time Stopped:	**17:15**	-7.27	0	None

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample V-02_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210121	**Sampled By:**	M. Fleming
Project Location:	Grow NYC	**Weather:**	24-37°F, Sunny, Wind NE 5 mph
Client:	Grow NYC		
Date:	2/20/2024		

Sample Setup

Vapor Point Depth:	6	Inches	**Total Time of Purge:**	5 minutes	
Purging Pump:	Gilair Plus		**Purge Volume:**	2 liters	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	0.5	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**V-3**	**SUMMA® Canister ID:**	**966**
Flow Controller ID:	**01576**	**Soil Vapor Sample ID:**	**V-03_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	**9:08**	-30.46	0	None
Time Halfway:	**13:00**	-18.91	0	None
Time Stopped:	**16:40**	-8.61	0	None

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample V-03_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210121	**Sampled By:**	M. Fleming
Project Location:	Grow NYC	**Weather:**	24-37°F, Sunny, Wind NE 5 mph
Client:	Grow NYC		
Date:	2/20/2024		

Sample Setup

Vapor Point Depth:	6	Inches	**Total Time of Purge:**	8 minutes	
Purging Pump:	Gilair Plus		**Purge Volume:**	2 liters	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	0.4	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**V-4**	**SUMMA® Canister ID:**	**3347**
Flow Controller ID:	**01550**	**Soil Vapor Sample ID:**	**V-04_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	**9:25**	-30.53	0	None
Time Halfway:	**12:48**	-15.29	0	None
Time Stopped:	**16:20**	-6.19	0	None

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample V-04_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210121	**Sampled By:**	M. Fleming
Project Location:	Grow NYC	**Weather:**	24-37°F, Sunny, Wind NE 5 mph
Client:	Grow NYC		
Date:	2/20/2024		

Sample Setup

Vapor Point Depth:	6	Inches	**Total Time of Purge:**	6 minutes	
Purging Pump:	Gilair Plus		**Purge Volume:**	2 liters	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	0.4	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**V-5**	**SUMMA® Canister ID:**	**1843**
Flow Controller ID:	**01249**	**Soil Vapor Sample ID:**	**V-05_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	**8:33**	-30.98	0	None
Time Halfway:	**12:39**	-17.8	0	None
Time Stopped:	**16:10**	-6.61	0	None

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample V-05_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210121	**Sampled By:**	M. Fleming
Project Location:	Grow NYC	**Weather:**	24-37°F, Sunny, Wind NE 5 mph
Client:	Grow NYC		
Date:	2/20/2024		

Sample Setup

Vapor Point Depth:	6	Inches	**Total Time of Purge:**	6 minutes	
Purging Pump:	Gilair Plus		**Purge Volume:**	2 liters	
Pump Flow Rate*:	0.2	L/min	**Purged Vapor PID:**	0.4	ppm
			Helium Concentration:	0	%

Sample Identification

Soil Vapor Point ID:	**V-6**	**SUMMA® Canister ID:**	**3605**
Flow Controller ID:	**01541**	**Soil Vapor Sample ID:**	**V-06_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	**9:52**	-31.27	0	None
Time Halfway:	**13:45**	-18.01	0	None
Time Stopped:	**19:29**	-9.37	0	None

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample V-06_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.

Soil Vapor Sample Log

AKRF Project No:	210121	**Sampled By:**	M. Fleming	
Project Location:	Grow NYC	**Weather:**	24-37°F, Sunny, Wind NE 5 mph	
Client:	Grow NYC			
Date:	2/20/2024			
Sample Setup				
Vapor Point Depth:	6 Inches	**Total Time of Purge:**	6 minutes	
Purging Pump:	Gilair Plus	**Purge Volume:**	2 liters	
Pump Flow Rate*:	0.2 L/min	**Purged Vapor PID:**	0.5	ppm
		Helium Concentration:	0	%
Sample Identification				
Soil Vapor Point ID:	**V-7**	**SUMMA® Canister ID:**	**2771**	
Flow Controller ID:	**0764**	**Soil Vapor Sample ID:**	**V-07_20240220**	

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Notes
Time Started:	**8:46**	-30.85	0	None
Time Halfway:	**12:36**	-18.46	0	None
Time Stopped:	**16:18**	-8.04	0	None

Notes:

*Purge flow rate not to exceed 0.2 L/min.

ND = non-detect ppm = parts per million L/min = Liters per minute

Soil vapor sample V-07_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.

Indoor Air Sample Log

AKRF Project No:	210121	**Client:**	Grow NYC
Project Location:	Grow NYC	**Sampled By:**	M. Fleming
Date:	2/20/2024	**Weather:**	24-37°F, Sunny, Wind NE 5 mph

Sample Setup

Sample Identification

On-Site Location:	**Next to V-1**	**SUMMA® Canister ID:**	**3622**
Flow Controller ID:	**02099**	**Ambient Air Sample ID:**	**IA-01_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	7:57	-30.93	0	None
Time:	9:00	-23.01	0	None
Time Halfway:	11:40	-15.12	0	None
Time:	12:20	-13.01	0	None
Time Stopped:	13:54	-8.97	0	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-01_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.		

Indoor Air Sample Log

AKRF Project No:	210121	**Client:**	Grow NYC
Project Location:	Grow NYC	**Sampled By:**	M. Fleming
Date:	2/20/2024	**Weather:**	24-37°F, Sunny, Wind NE 5 mph

Sample Setup

Sample Identification

On-Site Location:	**Next to V-2**	**SUMMA® Canister ID:**	**3087**
Flow Controller ID:	**01811**	**Ambient Air Sample ID:**	**IA-02_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	8:02	-30.88	0	None
Time:	10:00	-21.91	0	None
Time Halfway:	11:45	-13.96	0	None
Time:	13:05	-11.16	0	None
Time Stopped:	14:00	-8.54	0	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-02_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.		

Indoor Air Sample Log

AKRF Project No:	210121	**Client:**	Grow NYC
Project Location:	Grow NYC	**Sampled By:**	M. Fleming
Date:	2/20/2024	**Weather:**	24-37°F, Sunny, Wind NE 5 mph

Sample Setup

Sample Identification

On-Site Location:	**Next to V-3**	**SUMMA® Canister ID:**	**2949**
Flow Controller ID:	**0283**	**Ambient Air Sample ID:**	**IA-03_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	7:48	-31.14	0	None
Time:	9:00	-24.01	0	None
Time Halfway:	11:48	-17.81	0	None
Time:	13:00	-13.85	0	None
Time Stopped:	15:45	-6.01	0	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-03_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.		

Indoor Air Sample Log

AKRF Project No:	210121	**Client:**	Grow NYC
Project Location:	Grow NYC	**Sampled By:**	M. Fleming
Date:	2/20/2024	**Weather:**	24-37°F, Sunny, Wind NE 5 mph

Sample Setup

Sample Identification

On-Site Location:	**Next to V-4**	**SUMMA® Canister ID:**	**2270**
Flow Controller ID:	**0797**	**Ambient Air Sample ID:**	**IA-04_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	7:50	-31.54	0	None
Time:	9:30	-24.04	0	None
Time Halfway:	11:30	-18.02	0	None
Time:	12:46	-15.46	0	None
Time Stopped:	15:36	-6.49	0	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-04 20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.		

Indoor Air Sample Log

AKRF Project No:	210121	**Client:**	Grow NYC
Project Location:	Grow NYC	**Sampled By:**	M. Fleming
Date:	2/20/2024	**Weather:**	24-37°F, Sunny, Wind NE 5 mph

Sample Setup

Sample Identification

On-Site Location:	**Next to V-5**	**SUMMA® Canister ID:**	**1698**
Flow Controller ID:	**01456**	**Ambient Air Sample ID:**	**IA-05_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	7:42	-30.87	0	None
Time:	9:30	-23.81	0	None
Time Halfway:	11:30	-16.19	0	None
Time:	12:42	-12.48	0	None
Time Stopped:	13:32	-9.62	0	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-05_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.		

Indoor Air Sample Log

AKRF Project No:	210121	**Client:**	Grow NYC
Project Location:	Grow NYC	**Sampled By:**	M. Fleming
Date:	2/20/2024	**Weather:**	24-37°F, Sunny, Wind NE 5 mph

Sample Setup

Sample Identification

On-Site Location:	**Next to V-6**	**SUMMA® Canister ID:**	**3366**
Flow Controller ID:	**01823**	**Ambient Air Sample ID:**	**IA-06_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	7:59	-31.03	0	None
Time:	10:30	-23.27	0	None
Time Halfway:	12:00	-18.25	0	None
Time:	13:00	-14.82	0	None
Time Stopped:	15:51	-6.85	0	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-06_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.		

Indoor Air Sample Log

AKRF Project No:	210121	**Client:**	Grow NYC
Project Location:	Grow NYC	**Sampled By:**	M. Fleming
Date:	2/20/2024	**Weather:**	24-37°F, Sunny, Wind NE 5 mph

Sample Setup

Sample Identification

On-Site Location:	**Next to V-7**	**SUMMA® Canister ID:**	**978**
Flow Controller ID:	**02100**	**Ambient Air Sample ID:**	**IA-07_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	7:45	-31.1	0	None
Time:	9:30	-23.94	0	None
Time Halfway:	11:45	-18.91	0	None
Time:	12:52	-14.8	0	None
Time Stopped:	15:31	-6.35	0	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Indoor air sample IA-07_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.		

Ambient Air Sample Log

AKRF Project No:	210121	**Client:**	Grow NYC
Project Location:	Grow NYC	**Sampled By:**	M. Fleming
Date:	2/20/2024	**Weather:**	24-37°F, Sunny, Wind NE 5 mph

Sample Setup

Sample Identification

On-Site Location:	**Roof**	**SUMMA® Canister ID:**	**2891**
Flow Controller ID:	**0753**	**Ambient Air Sample ID:**	**AA-01_20240220**

Sample Collection

Time		Vacuum (in/Hg)	Background PID	Potential VOC Sources/Notes
Time Started:	8:05	-31.86	0	None
Time:	10:10	-18.9	0	None
Time:	11:55	-8.96	0	None
Time Stopped:	12:24	-5.33	0	None

Notes:	ND = non-detect	ppm = parts per million	L/min = Liters per minute
	Ambient air sample AA-01_20240220 collected in a 6-L SUMMA® canister using 8-hour flow controller.		

ATTACHMENT C

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2409206

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Project Name: GROW NYC
Project Number: 210121

Lab Number: L2409206
Report Date: 03/05/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2409206-01	V-01_20240220	SOIL_VAPOR	GROW NYC	02/20/24 17:08	02/20/24
L2409206-02	IA-01_20240220	AIR	GROW NYC	02/20/24 13:54	02/20/24
L2409206-03	V-02_20240220	SOIL_VAPOR	GROW NYC	02/20/24 17:15	02/20/24
L2409206-04	IA-02_20240220	AIR	GROW NYC	02/20/24 14:00	02/20/24
L2409206-05	V-03_20240220	SOIL_VAPOR	GROW NYC	02/20/24 16:40	02/20/24
L2409206-06	IA-03_20240220	AIR	GROW NYC	02/20/24 15:45	02/20/24
L2409206-07	V-04_20240220	SOIL_VAPOR	GROW NYC	02/20/24 16:20	02/20/24
L2409206-08	IA-04_20240220	AIR	GROW NYC	02/20/24 15:36	02/20/24
L2409206-09	V-05_20240220	SOIL_VAPOR	GROW NYC	02/20/24 16:10	02/20/24
L2409206-10	IA-05_20240220	AIR	GROW NYC	02/20/24 13:32	02/20/24
L2409206-11	V-06_20240220	SOIL_VAPOR	GROW NYC	02/20/24 17:29	02/20/24
L2409206-12	IA-06_20240220	AIR	GROW NYC	02/20/24 15:51	02/20/24
L2409206-13	V-07_20240220	SOIL_VAPOR	GROW NYC	02/20/24 16:18	02/20/24
L2409206-14	IA-07_20240220	AIR	GROW NYC	02/20/24 15:31	02/20/24
L2409206-15	AA-01_20240220	AIR	GROW NYC	02/20/24 12:24	02/20/24
L2409206-16	UNUSED CAN #3147	SOIL_VAPOR	GROW NYC		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 7 & 12, 2024. The canister certification data is provided as an addendum.

WG1891258-2:The quality control sample CCAL, associated with WG1891258, did not meet the acceptance criteria for the full scan analysis for ethanol and dichlorofluoromethane. The associated compound(s) for those samples were reported from the SIM analysis.

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

Authorized Signature: Christopher J Anderson Report Date: 03/05/24

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 : L2409206

Account Name : AKRF, Inc.
Project Number : 210121
Project Name : GROW NYC

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
Mar 05 2024, 01:37 pm

Login Number: L2409206
Account: AKRF-M-2 AKRF, Inc.Project: 210121
Received: 20FEB24 Due Date: 27FEB24

Sample #	Client ID	Mat	PR	Collected
L2409206-01	V-01_20240220	11	S0	20FEB24 17:08
	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 02/27/24			
	ASP-B,CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM			
L2409206-02	IA-01_20240220	10	S0	20FEB24 13:54
	TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24			
	CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM			
L2409206-03	V-02_20240220	11	S0	20FEB24 17:15
	TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24			
	CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM			
L2409206-04	IA-02_20240220	10	S0	20FEB24 14:00
	TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24			
	CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM			
L2409206-05	V-03_20240220	11	S0	20FEB24 16:40
	TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24			
	CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM			
L2409206-06	IA-03_20240220	10	S0	20FEB24 15:45
	TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24			
	CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM			
L2409206-07	V-04_20240220	11	S0	20FEB24 16:20
	TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24			

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 05 2024, 01:37 pm

Login Number: L2409206
Account: AKRF-M-2 AKRF, Inc.Project: 210121
Received: 20FEB24 Due Date: 27FEB24

Sample #	Client ID	Mat	PR	Collected
CAN-RENT,FLOW-RENT,TO15-LL				
L2409206-08	IA-04_20240220	10	S0	20FEB24 15:36
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409206-09	V-05_20240220	11	S0	20FEB24 16:10
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409206-10	IA-05_20240220	10	S0	20FEB24 13:32
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409206-11	V-06_20240220	11	S0	20FEB24 17:29
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409206-12	IA-06_20240220	10	S0	20FEB24 15:51
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409206-13	V-07_20240220	11	S0	20FEB24 16:18
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 05 2024, 01:37 pm

Login Number: L2409206
Account: AKRF-M-2 AKRF, Inc.Project: 210121
Received: 20FEB24 Due Date: 27FEB24

Sample #	Client ID	Mat	PR	Collected
L2409206-14	IA-07_20240220	10	S0	20FEB24 15:31
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409206-15	AA-01_20240220	10	S0	20FEB24 12:24
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409206-16	UNUSED CAN #3147	11	S0	
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,CLEAN-FEE,FLOW-RENT				

Logged By: Jennifer Jerome

AIR ANALYSIS

PAGE 1 OF 2

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 #: L2409206

Client Information

Client: AKRF
Address: 440 Park Ave South, Fl 7 New York, NY
Phone: 212 696 0670
Fax:
Email: sgrens@akrf.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Grow NYC
Project Location: Grow NYC
Project #: 210121
Project Manager: Steve Grens
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: Time:

Report Information - Data Deliverables

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

Billing Information

☑ Same as Client info PO #: 210121

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐ CATEGORY B DELIVERABLES / CLOSE SDG

ANALYSIS

TO-15 | TO-15 SIM | APH (Solvent Non-petroleum HCs) ☐ | Fixed Gases | Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	Sample Comments (i.e. PID)
09206 .01	V-01_20240220	2/20/24	0745	1708	-30.25	-7.88	SV	MF	6 L	806	02059	X
.02	IA-01_20240220		0757	1354	-30.93	-8.97	AA			3622	02091	X
.03	V-02_20240220		0959	1715	-30.74	-7.27	SV			3627	0162	X
.04	IA-02_20240220		0802	1400	-30.88	-8.54	AA			3087	01811	X
.05	V-03_20240220		0908	1640	-30.96	-8.61	SV			966	01576	X
.06	IA-03_20240220		0748	1545	-31.14	-6.01	AA			2949	0283	X
.07	V-04_20240220		0925	1620	-30.53	-6.19	SV			3347	01550	X
.08	IA-04_20240220		0750	1536	-36.54	-6.49	AA			2270	0297	X
.09	V-05_20240220		0833	1610	-30.98	-6.61	SV			1843	01249	X
.10	IA-05_20240220		0742	1332	-30.87	-9.62	AA			1698	01456	X

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

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time:
Madelyn Flynn	2/20/24	Anthony Green	2/20 16:06
Anthony Green	2120 19:35		FEB 20 2024 2219
	2/20/24 2345		2/20/24 2345
	2/21/24 0400		

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)

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 #: L2409206

Client Information

Client: AKRF
Address: 440 Park Ave South, Fl 7
New York NY
Phone: 212696 0670
Fax:
Email: sgrens@akrf.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: GrowNYC
Project Location: Grows NYC
Project #: 210121
Project Manager: Steve Grens
ALPHA Quote #:

Turn-Around Time

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

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO #: 210121

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments: CATEGORY B Deliverables / CLOSE SDG

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)
09206-11	V-06_20240220	2/20/24	0952	1729	-31.27	-9.37	SV	MF	6L	3650	1541	X					
-12	IA-06_20240220		0759	1551	-31.03	-6.85	AA			3366	01823	X					
-13	V-07_20240220		0846	1618	-30.85	-8.04	SV			2771	0764	X					
-14	IA-07_20240220		0745	1531	-31.10	-6.35	AA			978	02100	X					
-15	AA-01_20240220		0805	1224	-31.86	-5.33	AA			2891	0753	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:
MPW	2/20/24	MPW	2/20 18:06
Anthony Green	2/20 19:34	Anthony Green	FEB 20 2024 2019
	2/20/24 2345		2/20/24 2345

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
L2409206-01	V-01_20240220	02059	Flow 4	02/12/24	455196		-	-	-	Pass	10.3	10.1	2
L2409206-01	V-01_20240220	806	6.0L Can	02/07/24	454030	L2405799-09	Pass	-29.8	-6.5	-	-	-	-
L2409206-02	IA-01_20240220	02099	Flow 3	02/12/24	455196		-	-	-	Pass	10.1	12.8	24
L2409206-02	IA-01_20240220	3622	6.0L Can	02/07/24	454030	L2405799-10	Pass	-29.8	-7.8	-	-	-	-
L2409206-03	V-02_20240220	0162	Flow 4	02/12/24	455196		-	-	-	Pass	10.2	10.2	0
L2409206-03	V-02_20240220	3627	6.0L Can	02/07/24	454030	L2405799-09	Pass	-29.8	-5.7	-	-	-	-
L2409206-04	IA-02_20240220	01811	Flow 3	02/12/24	455196		-	-	-	Pass	10.1	9.4	7
L2409206-04	IA-02_20240220	3087	6.0L Can	02/07/24	454030	L2405799-09	Pass	-29.8	-7.4	-	-	-	-
L2409206-05	V-03_20240220	01576	Flow 4	02/12/24	455196		-	-	-	Pass	10.1	10.1	0
L2409206-05	V-03_20240220	966	6.0L Can	02/07/24	454030	L2405799-09	Pass	-29.8	-7.5	-	-	-	-
L2409206-06	IA-03_20240220	0283	Flow 5	02/12/24	455196		-	-	-	Pass	10.1	9.9	2
L2409206-06	IA-03_20240220	2949	6.0L Can	02/07/24	454030	L2405799-09	Pass	-29.8	-5.0	-	-	-	-
L2409206-07	V-04_20240220	01550	Flow 4	02/12/24	455196		-	-	-	Pass	10.1	13.1	26
L2409206-07	V-04_20240220	3347	6.0L Can	02/07/24	454030	L2405799-09	Pass	-29.8	-4.9	-	-	-	-
L2409206-08	IA-04_20240220	0797	Flow 3	02/12/24	455196		-	-	-	Pass	10.1	11.1	9

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
L2409206-08	IA-04_20240220	2270	6.0L Can	02/07/24	454030	L2405799-09	Pass	-29.8	-5.3	-	-	-	-
L2409206-09	V-05_20240220	01249	Flow 4	02/12/24	455196		-	-	-	Pass	10.3	10.5	2
L2409206-09	V-05_20240220	1843	6.0L Can	02/07/24	454030	L2406109-03	Pass	-29.8	-5.5	-	-	-	-
L2409206-10	IA-05_20240220	01456	Flow 3	02/12/24	455196		-	-	-	Pass	9.7	12.1	22
L2409206-10	IA-05_20240220	1698	6.0L Can	02/07/24	454030	L2405799-10	Pass	-29.7	-8.7	-	-	-	-
L2409206-11	V-06_20240220	01541	Flow 3	02/12/24	455196		-	-	-	Pass	10.4	10.8	4
L2409206-11	V-06_20240220	3605	6.0L Can	02/07/24	454030	L2406109-03	Pass	-29.8	-8.3	-	-	-	-
L2409206-12	IA-06_20240220	01823	Flow 3	02/12/24	455196		-	-	-	Pass	10.0	10.8	8
L2409206-12	IA-06_20240220	3366	6.0L Can	02/07/24	454030	L2405799-09	Pass	-29.8	-6.0	-	-	-	-
L2409206-13	V-07_20240220	0764	Flow 4	02/12/24	455196		-	-	-	Pass	10.0	10.1	1
L2409206-13	V-07_20240220	2771	6.0L Can	02/07/24	454030	L2405799-10	Pass	-29.8	-7.5	-	-	-	-
L2409206-14	IA-07_20240220	02100	Flow 3	02/12/24	455196		-	-	-	Pass	10.0	10.8	8
L2409206-14	IA-07_20240220	978	6.0L Can	02/07/24	454030	L2406109-03	Pass	-29.7	-5.5	-	-	-	-
L2409206-15	AA-01_20240220	0753	Flow 2	02/12/24	455196		-	-	-	Pass	10.2	17.5	53
L2409206-15	AA-01_20240220	2891	6.0L Can	02/07/24	454030	L2405799-09	Pass	-29.8	-2.8	-	-	-	-

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
L2409206-16	UNUSED CAN #3147	0953	Flow 3	02/07/24	454030		-	-	-	Pass	40.1	44.1	10
L2409206-16	UNUSED CAN #3147	3147	6.0L Can	02/07/24	454030	L2405799-10	Pass	-29.8	-29.5	-	-	-	-

Air Canister Certification Results

Lab ID: L2405799-09
Client ID: CAN 2616 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/03/24 00:43
Analyst: JFI

Date Collected: 02/02/24 12:00
Date Received: 02/02/24
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								
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: L2405799-09
Client ID: CAN 2616 SHELF 41
Sample Location:

Date Collected: 02/02/24 12:00
Date Received: 02/02/24
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
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: L2405799-09
Client ID: CAN 2616 SHELF 41
Sample Location:

Date Collected: 02/02/24 12:00
Date Received: 02/02/24
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: L2405799-09 Date Collected: 02/02/24 12:00
Client ID: CAN 2616 SHELF 41 Date Received: 02/02/24
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								
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: L2405799-09 Date Collected: 02/02/24 12:00
Client ID: CAN 2616 SHELF 41 Date Received: 02/02/24
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	96		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140

Air Canister Certification Results

Lab ID: L2405799-09
Client ID: CAN 2616 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/03/24 00:43
Analyst: JFI

Date Collected: 02/02/24 12:00
Date Received: 02/02/24
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: L2405799-09
Client ID: CAN 2616 SHELF 41
Sample Location:

Date Collected: 02/02/24 12:00
Date Received: 02/02/24
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: L2405799-09 Date Collected: 02/02/24 12:00
Client ID: CAN 2616 SHELF 41 Date Received: 02/02/24
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	111		60-140
bromochloromethane	111		60-140
chlorobenzene-d5	109		60-140

Air Canister Certification Results

Lab ID: L2405799-10
Client ID: CAN 655 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/03/24 01:22
Analyst: JFI

Date Collected: 02/02/24 12:00
Date Received: 02/02/24
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								
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: L2405799-10 Date Collected: 02/02/24 12:00
Client ID: CAN 655 SHELF 42 Date Received: 02/02/24
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
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: L2405799-10
Client ID: CAN 655 SHELF 42
Sample Location:

Date Collected: 02/02/24 12:00
Date Received: 02/02/24
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: L2405799-10
Client ID: CAN 655 SHELF 42
Sample Location:

Date Collected: 02/02/24 12:00
Date Received: 02/02/24
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					

Project Name:	BATCH CANISTER CERTIFICATION	***Lab Number:***	L2405799
Project Number:	CANISTER QC BAT	***Report Date:***	03/05/24

Air Canister Certification Results

Lab ID:	L2405799-10	Date Collected:	02/02/24 12:00
Client ID:	CAN 655 SHELF 42	Date Received:	02/02/24
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	97		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140

Air Canister Certification Results

Lab ID: L2405799-10
Client ID: CAN 655 SHELF 42
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/03/24 01:22
Analyst: JFI

Date Collected: 02/02/24 12:00
Date Received: 02/02/24
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: L2405799-10 Date Collected: 02/02/24 12:00
Client ID: CAN 655 SHELF 42 Date Received: 02/02/24
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								
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: L2405799-10 Date Collected: 02/02/24 12:00
Client ID: CAN 655 SHELF 42 Date Received: 02/02/24
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	114		60-140
bromochloromethane	114		60-140
chlorobenzene-d5	111		60-140

Air Canister Certification Results

Lab ID: L2406109-03
Client ID: CAN 2631 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/05/24 19:22
Analyst: JFI

Date Collected: 02/05/24 09:00
Date Received: 02/05/24
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								
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: L2406109-03 Date Collected: 02/05/24 09:00
Client ID: CAN 2631 SHELF 51 Date Received: 02/05/24
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: L2406109-03 Date Collected: 02/05/24 09:00
Client ID: CAN 2631 SHELF 51 Date Received: 02/05/24
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								
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: L2406109-03 Date Collected: 02/05/24 09:00
Client ID: CAN 2631 SHELF 51 Date Received: 02/05/24
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								
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: L2406109-03 Date Collected: 02/05/24 09:00
Client ID: CAN 2631 SHELF 51 Date Received: 02/05/24
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	98		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	95		60-140

Air Canister Certification Results

Lab ID: L2406109-03
Client ID: CAN 2631 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/05/24 19:22
Analyst: JFI

Date Collected: 02/05/24 09:00
Date Received: 02/05/24
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: L2406109-03 Date Collected: 02/05/24 09:00
Client ID: CAN 2631 SHELF 51 Date Received: 02/05/24
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								
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: L2406109-03 Date Collected: 02/05/24 09:00
Client ID: CAN 2631 SHELF 51 Date Received: 02/05/24
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	101		60-140
bromochloromethane	103		60-140
chlorobenzene-d5	99		60-140

Organics

Volatile Organics in Air
TO-15 Low Level

Volatiles QC Summary

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Client Sample ID	: IA-04_20240220	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2409206-08	**Analysis Date**	: 02/26/24 23:04
Lab File ID	: R1543059	**DUP File ID**	: r1543060
Dup Sample ID	: WG1889452-5	**DUP Analysis Date**	: 02/26/24 23:45

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Dichlorodifluoromethane	0.524	0.520	1	25
Chloromethane	0.611	0.582	5	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	ND	ND	NC	25
Vinyl bromide	ND	ND	NC	25
Acetone	ND	ND	NC	25
Trichlorofluoromethane	0.268	0.263	2	25
Isopropanol	ND	ND	NC	25
Tertiary butyl Alcohol	ND	ND	NC	25
Methylene chloride	0.707	0.720	2	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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Client Sample ID	: IA-04_20240220	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2409206-08	**Analysis Date**	: 02/26/24 23:04
Lab File ID	: R1543059	**DUP File ID**	: r1543060
Dup Sample ID	: WG1889452-5	**DUP Analysis Date**	: 02/26/24 23:45

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	ND	ND	NC	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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Client Sample ID	: IA-04_20240220	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2409206-08	**Analysis Date**	: 02/26/24 23:04
Lab File ID	: R1543059	**DUP File ID**	: r1543060
Dup Sample ID	: WG1889452-5	**DUP Analysis Date**	: 02/26/24 23:45

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

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Client Sample ID	: V-04_20240220	**Matrix (Level)**	: SOIL_VAPOR (LOW)
Lab Sample ID	: L2409206-07	**Analysis Date**	: 03/01/24 19:23
Lab File ID	: R222764	**DUP File ID**	: r222765
Dup Sample ID	: WG1891258-5	**DUP Analysis Date**	: 03/01/24 19:55

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Dichlorodifluoromethane	0.366	0.361	1	25
Chloromethane	1.49	1.47	1	25
Freon-114	ND	ND	NC	25
Vinyl chloride	ND	ND	NC	25
1,3-Butadiene	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Ethanol	ND	ND	NC	25
Vinyl bromide	ND	ND	NC	25
Acetone	16.7	16.1	4	25
Trichlorofluoromethane	0.391	0.379	3	25
Isopropanol	0.506	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
Tertiary butyl Alcohol	1.37	1.33	3	25
Methylene chloride	ND	ND	NC	25
3-Chloropropene	ND	ND	NC	25
Carbon disulfide	0.461	0.471	2	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
cis-1,2-Dichloroethene	ND	ND	NC	25
Ethyl Acetate	ND	ND	NC	25
Chloroform	ND	ND	NC	25

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Client Sample ID	: V-04_20240220	**Matrix (Level)**	: SOIL_VAPOR (LOW)
Lab Sample ID	: L2409206-07	**Analysis Date**	: 03/01/24 19:23
Lab File ID	: R222764	**DUP File ID**	: r222765
Dup Sample ID	: WG1891258-5	**DUP Analysis Date**	: 03/01/24 19:55

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Tetrahydrofuran	6.42	6.40	0	25
1,2-Dichloroethane	ND	ND	NC	25
n-Hexane	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
Benzene	ND	ND	NC	25
Carbon tetrachloride	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
Trichloroethene	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	0.623	0.628	1	25
trans-1,3-Dichloropropene	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	0.834	0.871	4	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
Tetrachloroethene	ND	ND	NC	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	0.282	0.290	3	25
p/m-Xylene	1.11	1.14	3	25

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Client Sample ID	: V-04_20240220	**Matrix (Level)**	: SOIL_VAPOR (LOW)
Lab Sample ID	: L2409206-07	**Analysis Date**	: 03/01/24 19:23
Lab File ID	: R222764	**DUP File ID**	: r222765
Dup Sample ID	: WG1891258-5	**DUP Analysis Date**	: 03/01/24 19:55

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Bromoform	ND	ND	NC	25
Styrene	ND	ND	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	NC	25
o-Xylene	0.397	0.409	3	25
4-Ethyltoluene	ND	ND	NC	25
1,3,5-Trimethylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	0.412	0.422	2	25
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Matrix (Level)	: SOIL_VAPOR (LOW)		
LCS Sample ID	: WG1889452-3 **Analysis Date** : 02/26/24 12:34	**File ID**	: r1543051
LCSD Sample ID	: **Analysis Date** :	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
Dichlorodifluoromethane	10	9.01	90				-	70-130	-
Chloromethane	10	8.81	88				-	70-130	-
Freon-114	10	10.0	100				-	70-130	-
Vinyl chloride	10	8.77	88				-	70-130	-
1,3-Butadiene	10	8.71	87				-	70-130	-
Bromomethane	10	9.04	90				-	70-130	-
Chloroethane	10	9.81	98				-	70-130	-
Ethanol	50	40.5	81				-	40-160	-
Vinyl bromide	10	10.4	104				-	70-130	-
Acetone	50	60.8	122				-	40-160	-
Trichlorofluoromethane	10	10.9	109				-	70-130	-
Isopropanol	25	24.4	98				-	40-160	-
1,1-Dichloroethene	10	10.6	106				-	70-130	-
Tertiary butyl Alcohol	10	9.21	92				-	70-130	-
Methylene chloride	10	9.26	93				-	70-130	-
3-Chloropropene	10	10.8	108				-	70-130	-
Carbon disulfide	10	8.76	88				-	70-130	-
Freon-113	10	10.3	103				-	70-130	-
trans-1,2-Dichloroethene	10	10.1	101				-	70-130	-
1,1-Dichloroethane	10	10.3	103				-	70-130	-
Methyl tert butyl ether	10	9.07	91				-	70-130	-
2-Butanone	10	9.90	99				-	70-130	-
cis-1,2-Dichloroethene	10	10.4	104				-	70-130	-
Ethyl Acetate	10	10.8	108				-	70-130	-
Chloroform	10	8.98	90				-	70-130	-
Tetrahydrofuran	10	9.50	95				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Matrix (Level)	: SOIL_VAPOR (LOW)		
LCS Sample ID	: WG1889452-3 **Analysis Date** : 02/26/24 12:34	**File ID**	: r1543051
LCSD Sample ID	: **Analysis Date** :	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
1,2-Dichloroethane	10	11.0	110				-	70-130	-
n-Hexane	10	10.4	104				-	70-130	-
1,1,1-Trichloroethane	10	10.6	106				-	70-130	-
Benzene	10	8.50	85				-	70-130	-
Carbon tetrachloride	10	9.83	98				-	70-130	-
Cyclohexane	10	9.83	98				-	70-130	-
1,2-Dichloropropane	10	9.96	100				-	70-130	-
Bromodichloromethane	10	9.73	97				-	70-130	-
1,4-Dioxane	10	9.18	92				-	70-130	-
Trichloroethene	10	9.16	92				-	70-130	-
2,2,4-Trimethylpentane	10	10.4	104				-	70-130	-
Heptane	10	10.2	102				-	70-130	-
cis-1,3-Dichloropropene	10	8.94	89				-	70-130	-
4-Methyl-2-pentanone	10	10.2	102				-	70-130	-
trans-1,3-Dichloropropene	10	8.83	88				-	70-130	-
1,1,2-Trichloroethane	10	9.86	99				-	70-130	-
Toluene	10	9.02	90				-	70-130	-
2-Hexanone	10	9.40	94				-	70-130	-
Dibromochloromethane	10	10.2	102				-	70-130	-
1,2-Dibromoethane	10	8.73	87				-	70-130	-
Tetrachloroethene	10	8.14	81				-	70-130	-
Chlorobenzene	10	8.24	82				-	70-130	-
Ethylbenzene	10	8.93	89				-	70-130	-
p/m-Xylene	20	19.0	95				-	70-130	-
Bromoform	10	10.1	101				-	70-130	-
Styrene	10	8.47	85				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Matrix (Level)	: SOIL_VAPOR (LOW)		
LCS Sample ID	: WG1889452-3 **Analysis Date** : 02/26/24 12:34	**File ID**	: r1543051
LCSD Sample ID	: **Analysis Date** :	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ppbV)**	**Found (ppbV)**	**%R**	**True (ppbV)**	**Found (ppbV)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,1,2,2-Tetrachloroethane	10	8.70	87				-	70-130	-
o-Xylene	10	9.80	98				-	70-130	-
4-Ethyltoluene	10	9.42	94				-	70-130	-
1,3,5-Trimethylbenzene	10	9.94	99				-	70-130	-
1,2,4-Trimethylbenzene	10	9.86	99				-	70-130	-
Benzyl chloride	10	9.47	95				-	70-130	-
1,3-Dichlorobenzene	10	9.20	92				-	70-130	-
1,4-Dichlorobenzene	10	9.37	94				-	70-130	-
1,2-Dichlorobenzene	10	9.23	92				-	70-130	-
1,2,4-Trichlorobenzene	10	8.56	86				-	70-130	-
Hexachlorobutadiene	10	8.79	88				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Matrix (Level)	: SOIL_VAPOR (LOW)		
LCS Sample ID	: WG1891258-3 **Analysis Date** : 03/01/24 13:22	**File ID**	: r222757
LCSD Sample ID	: **Analysis Date** :	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ppbV)**	**Found (ppbV)**	**%R**	**True (ppbV)**	**Found (ppbV)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Dichlorodifluoromethane	10	10.2	102				-	70-130	-
Chloromethane	10	9.85	98				-	70-130	-
Freon-114	10	11.1	111				-	70-130	-
Vinyl chloride	10	10.4	104				-	70-130	-
1,3-Butadiene	10	12.0	120				-	70-130	-
Bromomethane	10	10.5	105				-	70-130	-
Chloroethane	10	11.1	111				-	70-130	-
Ethanol	50	66.3	133				-	40-160	-
Vinyl bromide	10	10.8	108				-	70-130	-
Acetone	50	59.0	118				-	40-160	-
Trichlorofluoromethane	10	10.8	108				-	70-130	-
Isopropanol	25	26.4	106				-	40-160	-
1,1-Dichloroethene	10	11.1	111				-	70-130	-
Tertiary butyl Alcohol	10	10.4	104				-	70-130	-
Methylene chloride	10	9.10	91				-	70-130	-
3-Chloropropene	10	10.6	106				-	70-130	-
Carbon disulfide	10	8.93	89				-	70-130	-
Freon-113	10	9.22	92				-	70-130	-
trans-1,2-Dichloroethene	10	9.64	96				-	70-130	-
1,1-Dichloroethane	10	9.18	92				-	70-130	-
Methyl tert butyl ether	10	9.81	98				-	70-130	-
2-Butanone	10	9.47	95				-	70-130	-
cis-1,2-Dichloroethene	10	9.44	94				-	70-130	-
Ethyl Acetate	10	10.2	102				-	70-130	-
Chloroform	10	9.62	96				-	70-130	-
Tetrahydrofuran	10	9.83	98				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Matrix (Level)	: SOIL_VAPOR (LOW)		
LCS Sample ID	: WG1891258-3 **Analysis Date** : 03/01/24 13:22	**File ID**	: r222757
LCSD Sample ID	: **Analysis Date** :	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
1,2-Dichloroethane	10	10.1	101				-	70-130	-
n-Hexane	10	11.5	115				-	70-130	-
1,1,1-Trichloroethane	10	10.7	107				-	70-130	-
Benzene	10	9.59	96				-	70-130	-
Carbon tetrachloride	10	10.9	109				-	70-130	-
Cyclohexane	10	11.0	110				-	70-130	-
1,2-Dichloropropane	10	10.4	104				-	70-130	-
Bromodichloromethane	10	12.2	122				-	70-130	-
1,4-Dioxane	10	10.9	109				-	70-130	-
Trichloroethene	10	9.86	99				-	70-130	-
2,2,4-Trimethylpentane	10	11.7	117				-	70-130	-
Heptane	10	12.0	120				-	70-130	-
cis-1,3-Dichloropropene	10	10.5	105				-	70-130	-
4-Methyl-2-pentanone	10	12.4	124				-	70-130	-
trans-1,3-Dichloropropene	10	10.1	101				-	70-130	-
1,1,2-Trichloroethane	10	9.89	99				-	70-130	-
Toluene	10	7.99	80				-	70-130	-
2-Hexanone	10	9.12	91				-	70-130	-
Dibromochloromethane	10	9.18	92				-	70-130	-
1,2-Dibromoethane	10	7.85	78				-	70-130	-
Tetrachloroethene	10	7.80	78				-	70-130	-
Chlorobenzene	10	8.14	81				-	70-130	-
Ethylbenzene	10	8.16	82				-	70-130	-
p/m-Xylene	20	17.3	86				-	70-130	-
Bromoform	10	8.78	88				-	70-130	-
Styrene	10	7.97	80				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Matrix (Level)	: SOIL_VAPOR (LOW)		
LCS Sample ID	: WG1891258-3 **Analysis Date** : 03/01/24 13:22	**File ID**	: r222757
LCSD Sample ID	: **Analysis Date** :	**File ID**	:

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ppbV)**	**Found (ppbV)**	**%R**	**True (ppbV)**	**Found (ppbV)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,1,2,2-Tetrachloroethane	10	8.93	89				-	70-130	-
o-Xylene	10	8.90	89				-	70-130	-
4-Ethyltoluene	10	8.80	88				-	70-130	-
1,3,5-Trimethylbenzene	10	8.97	90				-	70-130	-
1,2,4-Trimethylbenzene	10	9.11	91				-	70-130	-
Benzyl chloride	10	9.43	94				-	70-130	-
1,3-Dichlorobenzene	10	8.24	82				-	70-130	-
1,4-Dichlorobenzene	10	7.97	80				-	70-130	-
1,2-Dichlorobenzene	10	7.87	79				-	70-130	-
1,2,4-Trichlorobenzene	10	7.25	72				-	70-130	-
Hexachlorobutadiene	10	7.73	77				-	70-130	-

Method Blank Summary
Form 4
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab Sample ID	: WG1889452-4	**Lab File ID**	: r1543053
Instrument ID	: AIRLAB15		
Matrix	: SOIL_VAPOR	**Analysis Date**	: 02/26/24 15:17

Client Sample No.	Lab Sample ID	Analysis Date
WG1889452-3LCS	WG1889452-3	02/26/24 12:34
AA-01_20240220	L2409206-15	02/26/24 20:16
IA-01_20240220	L2409206-02	02/26/24 20:58
IA-02_20240220	L2409206-04	02/26/24 21:39
IA-03_20240220	L2409206-06	02/26/24 22:22
IA-04_20240220	L2409206-08	02/26/24 23:04
IA-04_20240220DUP	WG1889452-5	02/26/24 23:45
IA-05_20240220	L2409206-10	02/27/24 00:28
IA-06_20240220	L2409206-12	02/27/24 01:09
IA-07_20240220	L2409206-14	02/27/24 01:52

Method Blank Summary
Form 4
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab Sample ID	: WG1891258-4	**Lab File ID**	: r222759
Instrument ID	: AIRLAB22		
Matrix	: SOIL_VAPOR	**Analysis Date**	: 03/01/24 15:26

Client Sample No.	Lab Sample ID	Analysis Date
WG1891258-3LCS	WG1891258-3	03/01/24 13:22
V-01_20240220	L2409206-01	03/01/24 17:47
V-02_20240220	L2409206-03	03/01/24 18:19
V-03_20240220	L2409206-05	03/01/24 18:51
V-04_20240220	L2409206-07	03/01/24 19:23
V-04_20240220DUP	WG1891258-5	03/01/24 19:55
V-05_20240220	L2409206-09	03/01/24 20:26
V-06_20240220	L2409206-11	03/01/24 21:00
V-07_20240220	L2409206-13	03/01/24 21:32

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

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB15	**Analysis Date**	: 11/20/23 19:17
Tune Standard	: WG1855304-1	**Tune File ID**	: r1540778_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	14.2
75	30.0 - 66.0% of mass 95	35.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.5)1
174	50.0 - 120.0% of mass 95	70.7
175	4.0 - 9.0% of mass 174	5 (7.1)1
176	93.0 - 101% of mass 174	65.9 (93.1)1
177	5.0 - 9.0% of mass 176	4.2 (6.4)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1766829-1	R1540782	11/20/23 21:44
STD0.5	R1766829-2	R1540783	11/20/23 22:22
STD1.0	R1766829-3	R1540784	11/20/23 23:03
STD5.0	R1766829-4	R1540785	11/20/23 23:42
STD010	R1766829-5	R1540786	11/21/23 00:23
STD020	R1766829-6	R1540787	11/21/23 01:00
STD050	R1766829-7	R1540788	11/21/23 01:39
STD100	R1766829-8	R1540789	11/21/23 02:20
ICV Quant	R1766829-9	R1540792	11/21/23 13:25

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

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB15	**Analysis Date**	: 02/26/24 11:04
Tune Standard	: WG1889452-1	**Tune File ID**	: r1543049_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	15.7
75	30.0 - 66.0% of mass 95	38
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.3 (.5)1
174	50.0 - 120.0% of mass 95	59.9
175	4.0 - 9.0% of mass 174	4.1 (6.9)1
176	93.0 - 101% of mass 174	57.4 (95.7)1
177	5.0 - 9.0% of mass 176	3.7 (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
WG1889452-2CCAL	WG1889452-2	R1543050	02/26/24 11:49
WG1889452-3LCS	WG1889452-3	R1543051	02/26/24 12:34
WG1889452-4BLANK	WG1889452-4	R1543053	02/26/24 15:17
AA-01_20240220	L2409206-15	R1543055	02/26/24 20:16
IA-01_20240220	L2409206-02	R1543056	02/26/24 20:58
IA-02_20240220	L2409206-04	R1543057	02/26/24 21:39
IA-03_20240220	L2409206-06	R1543058	02/26/24 22:22
IA-04_20240220	L2409206-08	R1543059	02/26/24 23:04
WG1889452-5DUP	WG1889452-5	R1543060	02/26/24 23:45
IA-05_20240220	L2409206-10	R1543061	02/27/24 00:28
IA-06_20240220	L2409206-12	R1543062	02/27/24 01:09
IA-07_20240220	L2409206-14	R1543063	02/27/24 01:52

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

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB22	**Analysis Date**	: 11/29/23 20:41
Tune Standard	: WG1858542-1	**Tune File ID**	: r221886_tune

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

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

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

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

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

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB22	**Analysis Date**	: 03/01/24 12:15
Tune Standard	: WG1891258-1	**Tune File ID**	: r222755_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.6
75	30.0 - 66.0% of mass 95	36.1
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	0.2 (.4)1
174	50.0 - 120.0% of mass 95	58.7
175	4.0 - 9.0% of mass 174	4.2 (7.1)1
176	93.0 - 101% of mass 174	57.6 (98.2)1
177	5.0 - 9.0% of mass 176	3.7 (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
WG1891258-2CCAL	WG1891258-2	R222756	03/01/24 12:49
WG1891258-3LCS	WG1891258-3	R222757	03/01/24 13:22
WG1891258-4BLANK	WG1891258-4	R222759	03/01/24 15:26
V-01_20240220	L2409206-01	R222761	03/01/24 17:47
V-02_20240220	L2409206-03	R222762	03/01/24 18:19
V-03_20240220	L2409206-05	R222763	03/01/24 18:51
V-04_20240220	L2409206-07	R222764	03/01/24 19:23
WG1891258-5DUP	WG1891258-5	R222765	03/01/24 19:55
V-05_20240220	L2409206-09	R222766	03/01/24 20:26
V-06_20240220	L2409206-11	R222767	03/01/24 21:00
V-07_20240220	L2409206-13	R222768	03/01/24 21:32

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB15	**Analysis Date**	: 02/26/24 11:49:00
Sample No	: WG1889452-2	**Lab File ID**	: R1543050

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1889452-2	240397	9.18	687087	11.41	126242	16.08
Upper Limit	336556	9.51	961922	11.74	176739	16.41
Lower Limit	144238	8.85	412252	11.08	75745	15.75
Sample ID						
WG1889452-3 LCS	243448	9.18	709318	11.41	124110	16.08
WG1889452-4 BLANK	218227	9.18	614258	11.41	108559	16.09
AA-01_20240220	218541	9.17	599583	11.40	113423	16.08
IA-01_20240220	220872	9.17	604040	11.40	114949	16.08
IA-02_20240220	221058	9.17	609852	11.39	117011	16.08
IA-03_20240220	224367	9.16	617829	11.39	118825	16.08
IA-04_20240220	224774	9.17	614202	11.39	117528	16.08
IA-04_20240220 DUP	224083	9.16	612902	11.39	118107	16.08
IA-05_20240220	218194	9.16	600317	11.39	116864	16.08
IA-06_20240220	221054	9.17	605952	11.39	117098	16.08
IA-07_20240220	223892	9.17	612921	11.39	117783	16.08

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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB22	**Analysis Date**	: 03/01/24 12:49:00
Sample No	: WG1891258-2	**Lab File ID**	: R222756

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1891258-2	199252	4.43	623148	5.36	82823	7.33
Upper Limit	278953	4.76	872407	5.69	115952	7.66
Lower Limit	119551	4.10	373889	5.03	49694	7.00
Sample ID						
WG1891258-3 LCS	215042	4.44	674926	5.36	85862	7.33
WG1891258-4 BLANK	204560	4.44	632233	5.36	82119	7.33
V-01_20240220	194994	4.44	609486	5.36	82215	7.33
V-02_20240220	214712	4.43	670848	5.36	85214	7.33
V-03_20240220	218464	4.44	686040	5.36	82582	7.33
V-04_20240220	224629	4.44	707473	5.36	82550	7.33
V-04_20240220 DUP	225468	4.44	707620	5.36	80217	7.33
V-05_20240220	227044	4.44	709753	5.36	79940	7.33
V-06_20240220	223874	4.44	704631	5.36	78298	7.33
V-07_20240220	223004	4.43	707768	5.36	76220	7.33

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)***
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-01	Date Collected	: 02/20/24 17:08
Client ID	: V-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 17:47
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222761	Instrument ID	: AIRLAB22
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	0.428	0.200	--	2.12	0.989	--	
74-87-3	Chloromethane	0.672	0.200	--	1.39	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	5.10	1.00	--	12.1	2.38	--	
75-69-4	Trichlorofluoromethane	0.321	0.200	--	1.80	1.12	--	
67-63-0	Isopropanol	1.08	0.500	--	2.65	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	0.738	0.500	--	2.18	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-01	Date Collected	: 02/20/24 17:08
Client ID	: V-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 17:47
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222761	Instrument ID	: AIRLAB22
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
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.510	0.200	--	1.92	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.234	0.200	--	1.02	0.869	--	
179601-23-1	p/m-Xylene	0.855	0.400	--	3.71	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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-01	**Date Collected**	: 02/20/24 17:08
Client ID	: V-01_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 17:47
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R222761	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
95-47-6	o-Xylene	0.371	0.200	--	1.61	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.463	0.200	--	2.28	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-02	Date Collected	: 02/20/24 13:54
Client ID	: IA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:58
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543056	Instrument ID	: AIRLAB15
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	0.535	0.200	--	2.65	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	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	0.264	0.200	--	1.48	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-02	Date Collected	: 02/20/24 13:54
Client ID	: IA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:58
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543056	Instrument ID	: AIRLAB15
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-02	**Date Collected**	: 02/20/24 13:54
Client ID	: IA-01_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/26/24 20:58
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1543056	**Instrument ID**	: AIRLAB15
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-03	Date Collected	: 02/20/24 17:15
Client ID	: V-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:19
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222762	Instrument ID	: AIRLAB22
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	0.405	0.200	--	2.00	0.989	--	
74-87-3	Chloromethane	2.94	0.200	--	6.07	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	6.81	1.00	--	16.2	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	3.56	0.500	--	8.75	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	1.14	0.500	--	3.46	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.512	0.200	--	1.59	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	1.53	0.500	--	4.51	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-03	Date Collected	: 02/20/24 17:15
Client ID	: V-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:19
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222762	Instrument ID	: AIRLAB22
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
71-55-6	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	1.78	0.500	--	7.29	2.05	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.680	0.200	--	2.56	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.278	0.200	--	1.21	0.869	--	
179601-23-1	p/m-Xylene	1.19	0.400	--	5.17	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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-03	**Date Collected**	: 02/20/24 17:15
Client ID	: V-02_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 18:19
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R222762	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
95-47-6	o-Xylene	0.446	0.200	--	1.94	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.399	0.200	--	1.96	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-04	Date Collected	: 02/20/24 14:00
Client ID	: IA-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 21:39
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543057	Instrument ID	: AIRLAB15
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	0.529	0.200	--	2.62	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	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	0.269	0.200	--	1.51	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-04	Date Collected	: 02/20/24 14:00
Client ID	: IA-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 21:39
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543057	Instrument ID	: AIRLAB15
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-04	**Date Collected**	: 02/20/24 14:00
Client ID	: IA-02_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/26/24 21:39
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1543057	**Instrument ID**	: AIRLAB15
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-05	Date Collected	: 02/20/24 16:40
Client ID	: V-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222763	Instrument ID	: AIRLAB22
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	0.395	0.200	--	1.95	0.989	--	
74-87-3	Chloromethane	1.82	0.200	--	3.76	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	11.7	1.00	--	27.8	2.38	--	
75-69-4	Trichlorofluoromethane	0.213	0.200	--	1.20	1.12	--	
67-63-0	Isopropanol	0.949	0.500	--	2.33	1.23	--	
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	0.655	0.200	--	2.04	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	1.69	0.500	--	4.98	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-05	Date Collected	: 02/20/24 16:40
Client ID	: V-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222763	Instrument ID	: AIRLAB22
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	0.212	0.200	--	0.747	0.705	--	
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	3.01	0.200	--	11.3	0.754	--	
591-78-6	2-Hexanone	0.211	0.200	--	0.865	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.269	0.200	--	1.17	0.869	--	
179601-23-1	p/m-Xylene	1.18	0.400	--	5.13	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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-05	**Date Collected**	: 02/20/24 16:40
Client ID	: V-03_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 18:51
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R222763	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
95-47-6	o-Xylene	0.521	0.200	--	2.26	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.515	0.200	--	2.53	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-06	Date Collected	: 02/20/24 15:45
Client ID	: IA-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 22:22
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543058	Instrument ID	: AIRLAB15
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	0.517	0.200	--	2.56	0.989	--	
74-87-3	Chloromethane	0.582	0.200	--	1.20	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.22	1.00	--	2.90	2.38	--	
75-69-4	Trichlorofluoromethane	0.257	0.200	--	1.44	1.12	--	
67-63-0	Isopropanol	5.63	0.500	--	13.8	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	0.552	0.500	--	1.92	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	ND	0.200	--	ND	0.639	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-06	Date Collected	: 02/20/24 15:45
Client ID	: IA-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 22:22
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543058	Instrument ID	: AIRLAB15
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-06	**Date Collected**	: 02/20/24 15:45
Client ID	: IA-03_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/26/24 22:22
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1543058	**Instrument ID**	: AIRLAB15
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-07	Date Collected	: 02/20/24 16:20
Client ID	: V-04_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 19:23
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222764	Instrument ID	: AIRLAB22
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	0.366	0.200	--	1.81	0.989	--	
74-87-3	Chloromethane	1.49	0.200	--	3.08	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	16.7	1.00	--	39.7	2.38	--	
75-69-4	Trichlorofluoromethane	0.391	0.200	--	2.20	1.12	--	
67-63-0	Isopropanol	0.506	0.500	--	1.24	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	1.37	0.500	--	4.15	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.461	0.200	--	1.44	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	6.42	0.500	--	18.9	1.47	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-07	Date Collected	: 02/20/24 16:20
Client ID	: V-04_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 19:23
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222764	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	0.623	0.500	--	2.55	2.05	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.834	0.200	--	3.14	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.282	0.200	--	1.22	0.869	--	
179601-23-1	p/m-Xylene	1.11	0.400	--	4.82	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-07	**Date Collected**	: 02/20/24 16:20
Client ID	: V-04_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 19:23
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R222764	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.397	0.200	--	1.72	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.412	0.200	--	2.03	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-08	Date Collected	: 02/20/24 15:36
Client ID	: IA-04_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 23:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543059	Instrument ID	: AIRLAB15
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	0.524	0.200	--	2.59	0.989	--	
74-87-3	Chloromethane	0.611	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	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	0.268	0.200	--	1.51	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	0.707	0.500	--	2.46	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	ND	0.200	--	ND	0.639	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-08	Date Collected	: 02/20/24 15:36
Client ID	: IA-04_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 23:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543059	Instrument ID	: AIRLAB15
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-08	**Date Collected**	: 02/20/24 15:36
Client ID	: IA-04_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/26/24 23:04
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1543059	**Instrument ID**	: AIRLAB15
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-09	Date Collected	: 02/20/24 16:10
Client ID	: V-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 20:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222766	Instrument ID	: AIRLAB22
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	0.362	0.200	--	1.79	0.989	--	
74-87-3	Chloromethane	0.530	0.200	--	1.09	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	8.94	1.00	--	21.2	2.38	--	
75-69-4	Trichlorofluoromethane	0.234	0.200	--	1.31	1.12	--	
67-63-0	Isopropanol	1.93	0.500	--	4.74	1.23	--	
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	0.542	0.500	--	1.88	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.205	0.200	--	0.638	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	1.71	0.200	--	8.35	0.977	--	
109-99-9	Tetrahydrofuran	0.621	0.500	--	1.83	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-09	Date Collected	: 02/20/24 16:10
Client ID	: V-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 20:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222766	Instrument ID	: AIRLAB22
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
71-55-6	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	0.242	0.200	--	0.992	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	1.02	0.200	--	3.84	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.354	0.200	--	1.54	0.869	--	
179601-23-1	p/m-Xylene	1.37	0.400	--	5.95	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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-09	**Date Collected**	: 02/20/24 16:10
Client ID	: V-05_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 20:26
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R222766	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
95-47-6	o-Xylene	0.490	0.200	--	2.13	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.489	0.200	--	2.40	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-10	Date Collected	: 02/20/24 13:32
Client ID	: IA-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 00:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543061	Instrument ID	: AIRLAB15
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	0.612	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	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	0.283	0.200	--	1.59	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-10	Date Collected	: 02/20/24 13:32
Client ID	: IA-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 00:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543061	Instrument ID	: AIRLAB15
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-10	**Date Collected**	: 02/20/24 13:32
Client ID	: IA-05_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/27/24 00:28
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1543061	**Instrument ID**	: AIRLAB15
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-11	Date Collected	: 02/20/24 17:29
Client ID	: V-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:00
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222767	Instrument ID	: AIRLAB22
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	0.355	0.200	--	1.76	0.989	--	
74-87-3	Chloromethane	1.78	0.200	--	3.68	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	6.04	1.00	--	14.3	2.38	--	
75-69-4	Trichlorofluoromethane	0.984	0.200	--	5.53	1.12	--	
67-63-0	Isopropanol	2.52	0.500	--	6.19	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	1.47	0.500	--	4.46	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.328	0.200	--	1.02	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.584	0.500	--	1.72	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	4.89	0.500	--	14.4	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-11	Date Collected	: 02/20/24 17:29
Client ID	: V-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:00
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222767	Instrument ID	: AIRLAB22
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	0.235	0.200	--	0.828	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.244	0.200	--	0.780	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	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	0.243	0.200	--	0.996	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	0.774	0.500	--	3.17	2.05	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	1.20	0.200	--	4.52	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.387	0.200	--	1.68	0.869	--	
179601-23-1	p/m-Xylene	1.57	0.400	--	6.82	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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-11	**Date Collected**	: 02/20/24 17:29
Client ID	: V-06_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 21:00
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R222767	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
95-47-6	o-Xylene	0.567	0.200	--	2.46	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.490	0.200	--	2.41	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-12	Date Collected	: 02/20/24 15:51
Client ID	: IA-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543062	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.528	0.200	--	2.61	0.989	--	
74-87-3	Chloromethane	0.571	0.200	--	1.18	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	0.268	0.200	--	1.51	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	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	0.245	0.200	--	0.971	0.793	--	
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-12	Date Collected	: 02/20/24 15:51
Client ID	: IA-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543062	Instrument ID	: AIRLAB15
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	0.749	0.500	--	3.07	2.05	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-12	**Date Collected**	: 02/20/24 15:51
Client ID	: IA-06_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/27/24 01:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1543062	**Instrument ID**	: AIRLAB15
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-13	Date Collected	: 02/20/24 16:18
Client ID	: V-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:32
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222768	Instrument ID	: AIRLAB22
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	0.364	0.200	--	1.80	0.989	--	
74-87-3	Chloromethane	1.29	0.200	--	2.66	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.74	1.00	--	8.88	2.38	--	
75-69-4	Trichlorofluoromethane	0.236	0.200	--	1.33	1.12	--	
67-63-0	Isopropanol	1.05	0.500	--	2.58	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	2.11	0.500	--	6.40	1.52	--	
75-09-2	Methylene chloride	0.575	0.500	--	2.00	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.202	0.200	--	0.629	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.20	0.500	--	3.54	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	0.726	0.500	--	2.14	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-13	Date Collected	: 02/20/24 16:18
Client ID	: V-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:32
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222768	Instrument ID	: AIRLAB22
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	0.509	0.200	--	1.79	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.329	0.200	--	1.05	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	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	1.12	0.200	--	5.23	0.934	--	
142-82-5	Heptane	0.356	0.200	--	1.46	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.772	0.200	--	2.91	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	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	0.630	0.400	--	2.74	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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-13	Date Collected	: 02/20/24 16:18
Client ID	: V-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:32
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222768	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
95-47-6	o-Xylene	0.223	0.200	--	0.969	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-14	Date Collected	: 02/20/24 15:31
Client ID	: IA-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:52
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543063	Instrument ID	: AIRLAB15
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	0.527	0.200	--	2.61	0.989	--	
74-87-3	Chloromethane	0.581	0.200	--	1.20	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	0.269	0.200	--	1.51	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-14	Date Collected	: 02/20/24 15:31
Client ID	: IA-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:52
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543063	Instrument ID	: AIRLAB15
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-14	**Date Collected**	: 02/20/24 15:31
Client ID	: IA-07_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/27/24 01:52
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1543063	**Instrument ID**	: AIRLAB15
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-15	Date Collected	: 02/20/24 12:24
Client ID	: AA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:16
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543055	Instrument ID	: AIRLAB15
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	0.530	0.200	--	2.62	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	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.42	1.00	--	3.37	2.38	--	
75-69-4	Trichlorofluoromethane	0.266	0.200	--	1.49	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-15	Date Collected	: 02/20/24 12:24
Client ID	: AA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:16
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543055	Instrument ID	: AIRLAB15
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-15	**Date Collected**	: 02/20/24 12:24
Client ID	: AA-01_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/26/24 20:16
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1543055	**Instrument ID**	: AIRLAB15
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: WG1889452-4	Date Collected	: NA
Client ID	: WG1889452-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 02/26/24 15:17
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543053	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: WG1889452-4	Date Collected	: NA
Client ID	: WG1889452-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 02/26/24 15:17
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543053	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: WG1889452-4	**Date Collected**	: NA
Client ID	: WG1889452-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/26/24 15:17
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1543053	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: WG1889452-5	Date Collected	: 02/20/24 15:36
Client ID	: IA-04_20240220DUP	Date Received	: 02/20/24
Sample Location	:	Date Analyzed	: 02/26/24 23:45
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543060	Instrument ID	: AIRLAB15
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	0.520	0.200	--	2.57	0.989	--	
74-87-3	Chloromethane	0.582	0.200	--	1.20	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	0.263	0.200	--	1.48	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	0.720	0.500	--	2.50	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	ND	0.200	--	ND	0.639	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: WG1889452-5	Date Collected	: 02/20/24 15:36
Client ID	: IA-04_20240220DUP	Date Received	: 02/20/24
Sample Location	:	Date Analyzed	: 02/26/24 23:45
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543060	Instrument ID	: AIRLAB15
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: WG1889452-5	**Date Collected**	: 02/20/24 15:36
Client ID	: IA-04_20240220DUP	**Date Received**	: 02/20/24
Sample Location	:	**Date Analyzed**	: 02/26/24 23:45
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R1543060	**Instrument ID**	: AIRLAB15
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	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: WG1891258-4	Date Collected	: NA
Client ID	: WG1891258-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 03/01/24 15:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222759	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: WG1891258-4	Date Collected	: NA
Client ID	: WG1891258-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 03/01/24 15:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222759	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: WG1891258-4	**Date Collected**	: NA
Client ID	: WG1891258-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/01/24 15:26
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R222759	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

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

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: WG1891258-5	Date Collected	: 02/20/24 16:20
Client ID	: V-04_20240220DUP	Date Received	: 02/20/24
Sample Location	:	Date Analyzed	: 03/01/24 19:55
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222765	Instrument ID	: AIRLAB22
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	0.361	0.200	--	1.79	0.989	--	
74-87-3	Chloromethane	1.47	0.200	--	3.04	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	16.1	1.00	--	38.2	2.38	--	
75-69-4	Trichlorofluoromethane	0.379	0.200	--	2.13	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	1.33	0.500	--	4.03	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.471	0.200	--	1.47	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	6.40	0.500	--	18.9	1.47	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: WG1891258-5	Date Collected	: 02/20/24 16:20
Client ID	: V-04_20240220DUP	Date Received	: 02/20/24
Sample Location	:	Date Analyzed	: 03/01/24 19:55
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222765	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	0.628	0.500	--	2.57	2.05	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.871	0.200	--	3.28	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.290	0.200	--	1.26	0.869	--	
179601-23-1	p/m-Xylene	1.14	0.400	--	4.95	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: WG1891258-5	**Date Collected**	: 02/20/24 16:20
Client ID	: V-04_20240220DUP	**Date Received**	: 02/20/24
Sample Location	:	**Date Analyzed**	: 03/01/24 19:55
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R222765	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.409	0.200	--	1.78	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.422	0.200	--	2.07	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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\Airlab15\2024\02\0226T\
Data File : r1543055.D
Acq On : 26 Feb 2024 8:16 PM
Operator : AIRLAB15:KJD
Sample : L2409206-15,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:20:08 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.167	49	218541	10.000	ppbV	0.00
Standard Area = 240397			Recovery =		90.91%	
43) 1,4-difluorobenzene	11.400	114	599583	10.000	ppbV	# 0.00
Standard Area = 687087			Recovery =		87.26%	
67) chlorobenzene-D5	16.075	54	113423	10.000	ppbV	-0.03
Standard Area = 126242			Recovery =		89.85%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	13198	0.530	ppbV	100
6) chloromethane	4.198	50	5725	0.612	ppbV	99
7) Freon-114	0.000		0	N.D.	d	
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.212	31	12702	1.545	ppbV #	84
17) vinyl bromide	5.480		0	N.D.		
19) acetone	5.733	43	17576M6	1.425	ppbV	
21) trichlorofluoromethane	5.900	101	4952	0.266	ppbV	96
22) isopropyl alcohol	6.027	45	2680	0.172	ppbV #	83
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	6.750	49	3187	0.189	ppbV	99
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	0.000		0	N.D.		
31) Freon 113	7.050	101	1852	0.076	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	8.517	43	2572	0.089	ppbV #	85
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.325		0	N.D.		
40) Tetrahydrofuran	9.808	42	1710	0.094	ppbV #	85
42) 1,2-dichloroethane	10.158		0	N.D.		
44) hexane	9.233	57	1418	0.054	ppbV #	17
50) benzene	10.980	78	6600	0.136	ppbV #	91
53) cyclohexane	11.307		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543055.D
Acq On : 26 Feb 2024 8:16 PM
Operator : AIRLAB15:KJD
Sample : L2409206-15,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:20:08 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

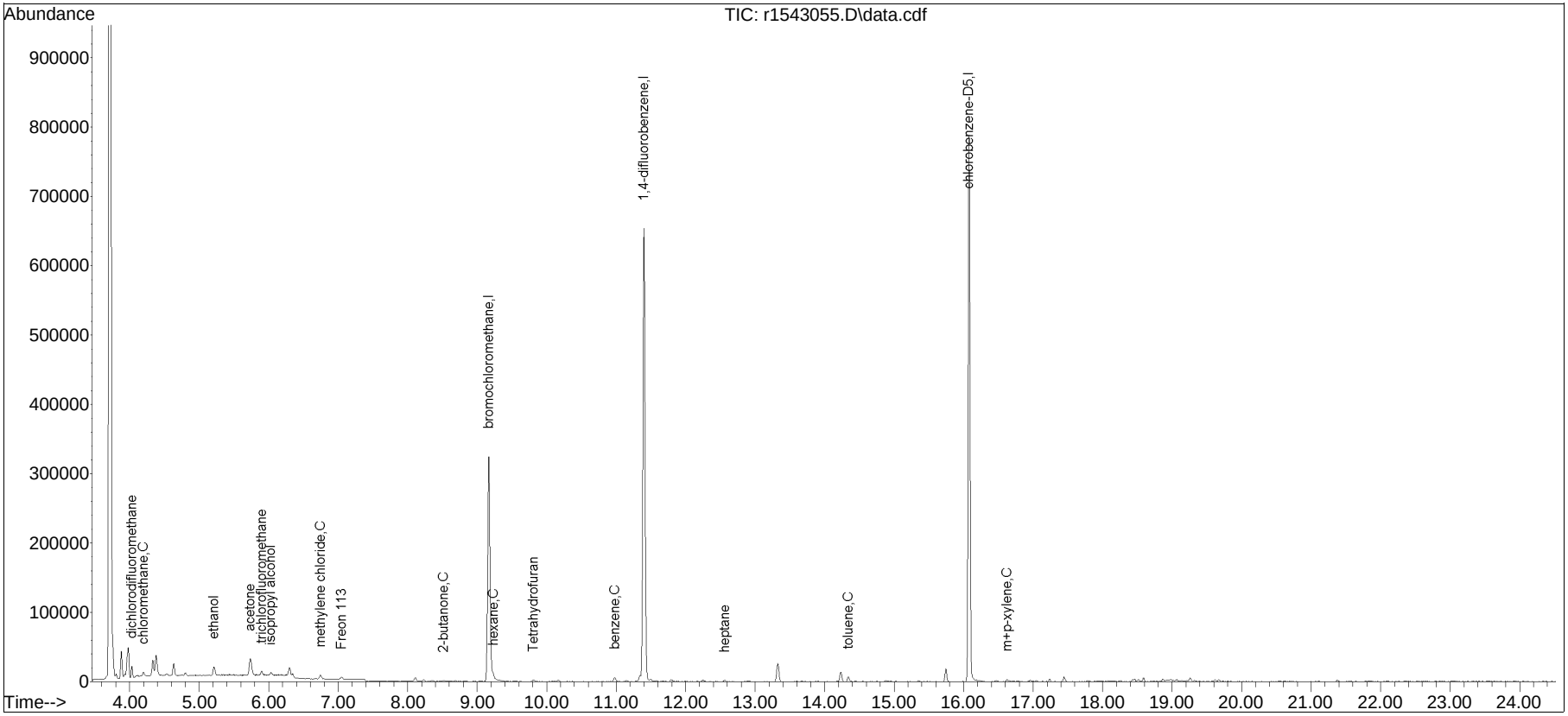
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.253		0	N.D.		
62) heptane	12.560	43	936	0.032	ppbV #	89
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D. d		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.342	91	5924	0.091	ppbV	100
72) 2-hexanone	0.000		0	N.D. d		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.467		0	N.D.		
83) m+p-xylene	16.625	91	2887	0.044	ppbV	93
84) bromoform	0.000		0	N.D.		
85) styrene	16.958		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	17.042		0	N.D.		
96) 4-ethyl toluene	0.000		0	N.D. d		
97) 1,3,5-trimethylbenzene	0.000		0	N.D. d		
99) 1,2,4-trimethylbenzene	18.517		0	N.D.		
101) Benzyl Chloride	0.000		0	N.D.		
102) 1,3-dichlorobenzene	18.700		0	N.D.		
103) 1,4-dichlorobenzene	18.700		0	N.D.		
107) 1,2-dichlorobenzene	18.992		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

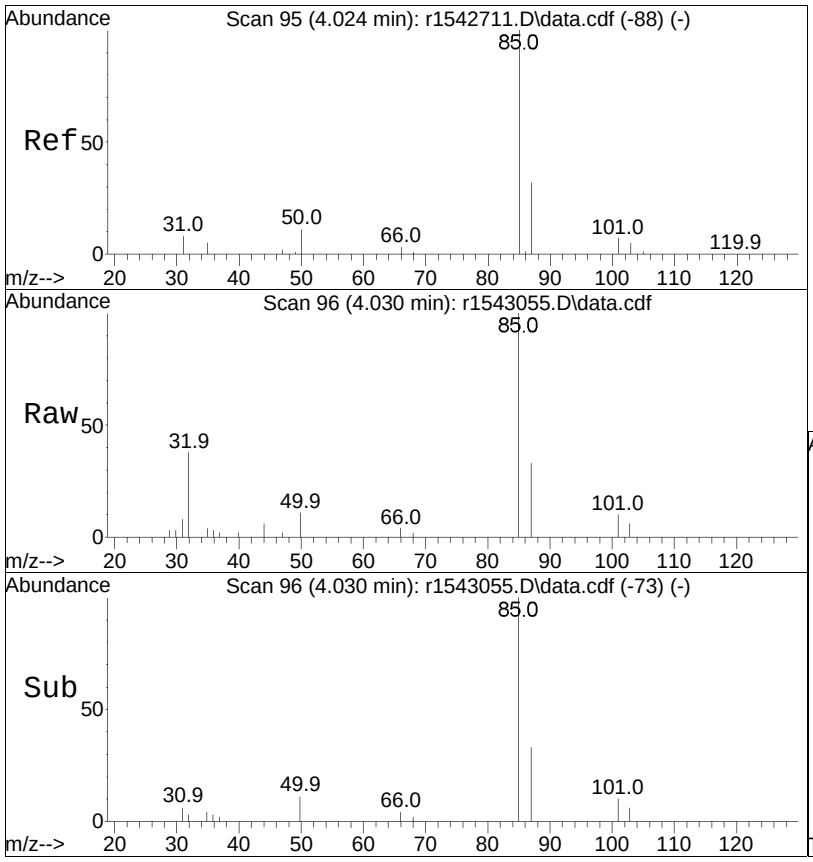
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab15\2024\02\0226T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543055.D
Acq On : 26 Feb 2024 8:16 PM
Operator : AIRLAB15:KJD
Sample : L2409206-15,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:20:08 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

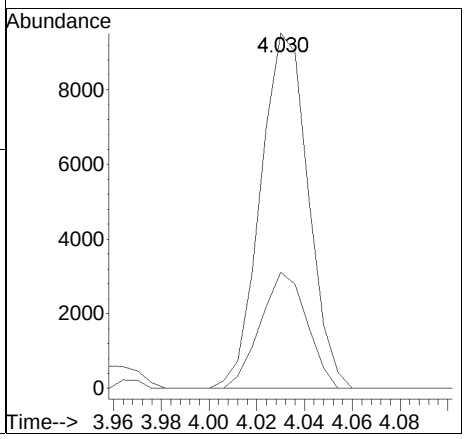


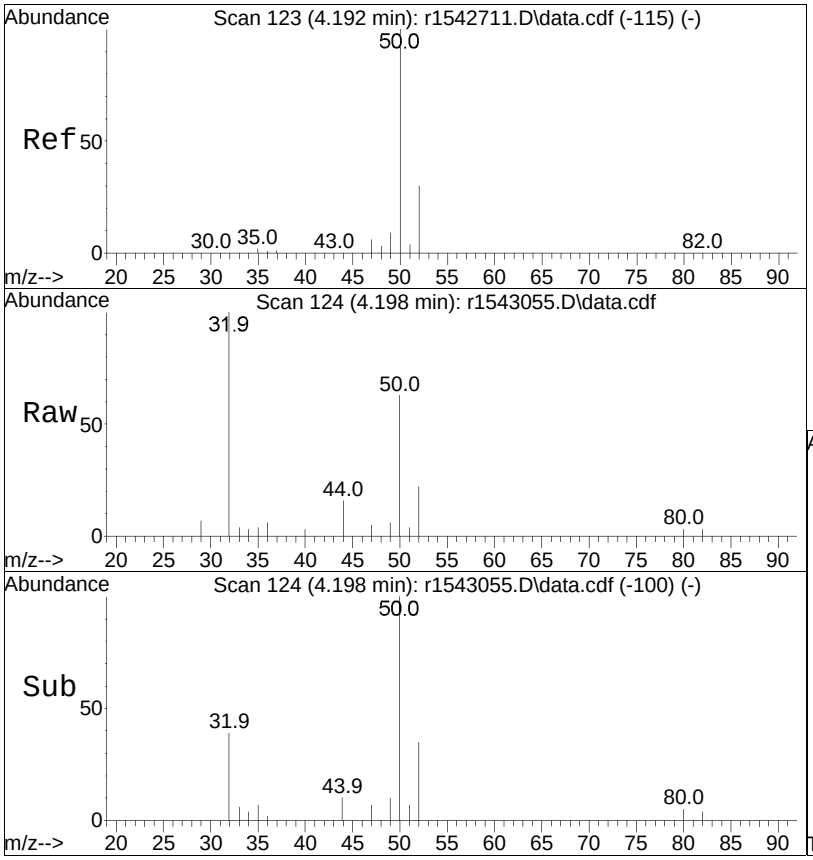


#5
dichlorodifluoromethane
Concen: 0.53 ppbV
RT: 4.030 min Scan# 96
Delta R.T. -0.064 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 85 Resp: 13198

Ion	Ratio	Lower	Upper
85	100		
87	32.7	26.1	39.1

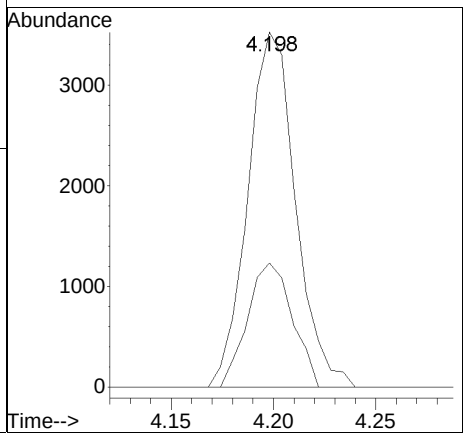


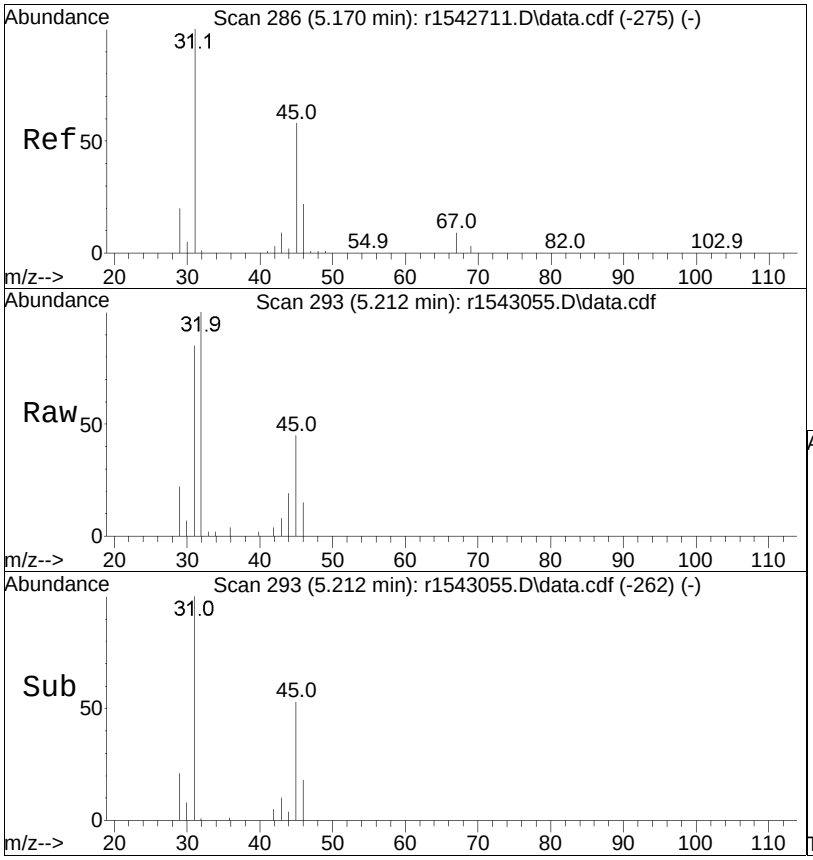


#6
chloromethane
Concen: 0.61 ppbV
RT: 4.198 min Scan# 124
Delta R.T. -0.058 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 50 Resp: 5725

Ion	Ratio	Lower	Upper
50	100		
52	35.0	27.4	41.2

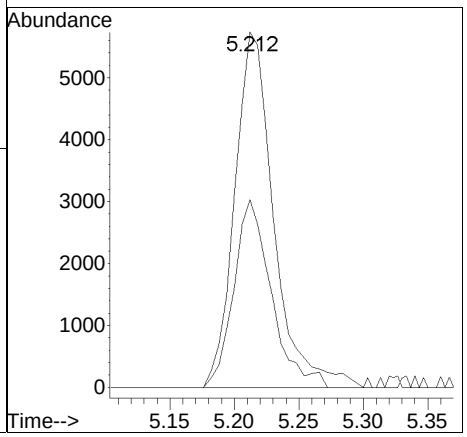


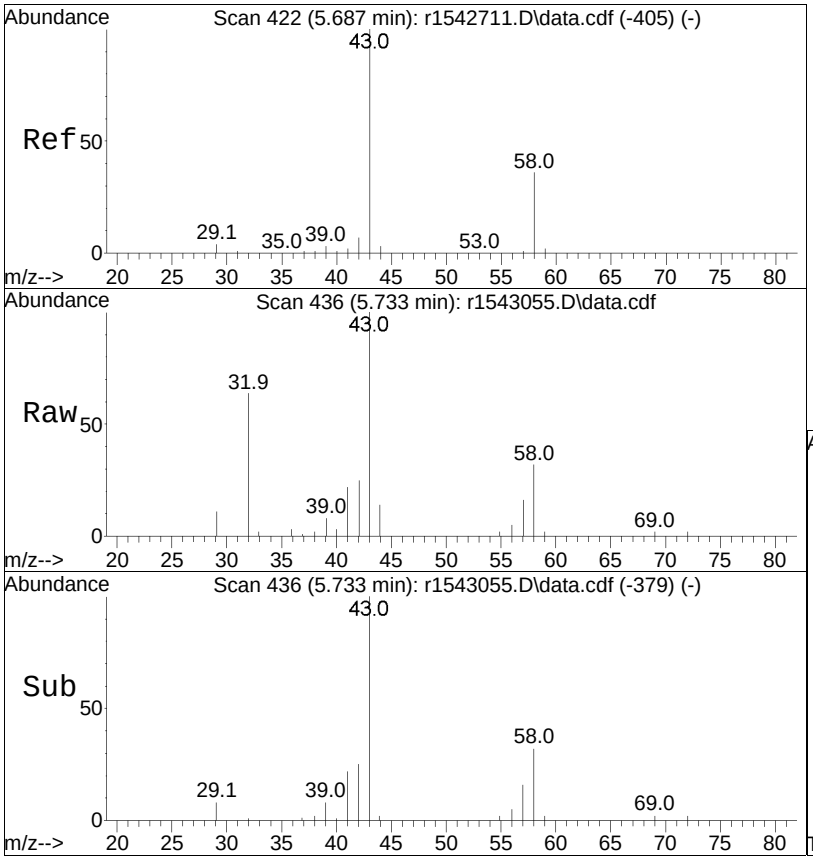


#15
ethanol
Concen: 1.54 ppbV
RT: 5.212 min Scan# 293
Delta R.T. -0.016 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 31 Resp: 12702

Ion	Ratio	Lower	Upper
31	100		
45	52.9	34.2	51.2#

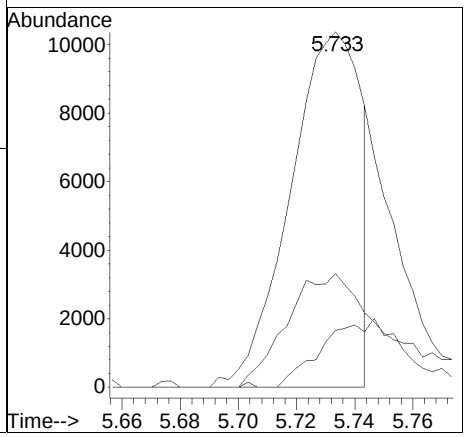


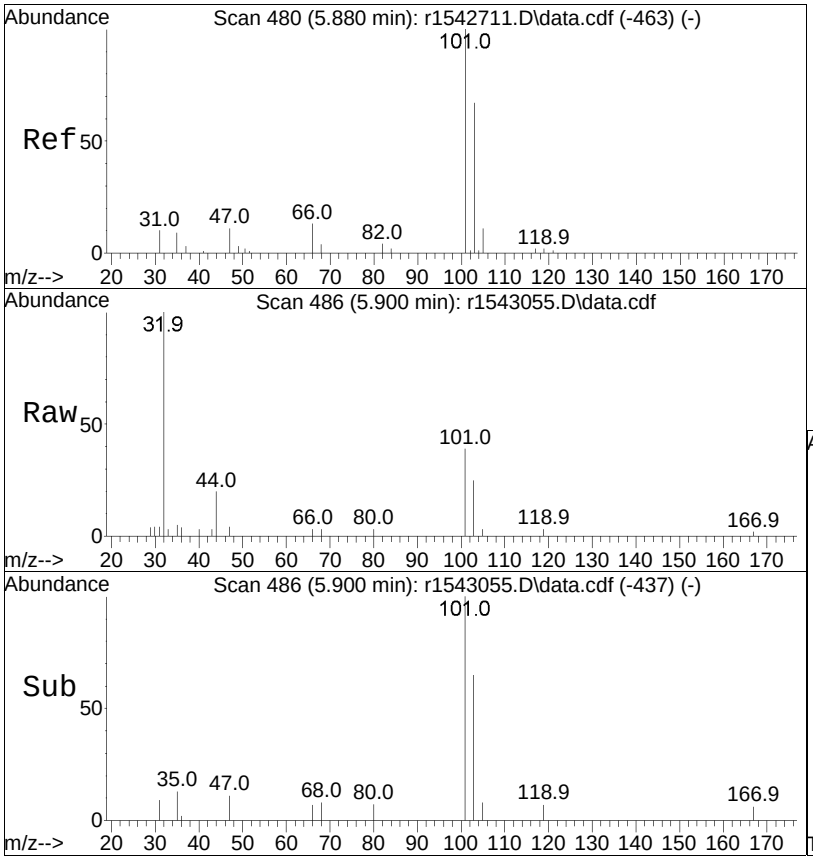


#19
acetone
Concen: 1.42 ppbV m
RT: 5.733 min Scan# 436
Delta R.T. -0.010 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 43 Resp: 17576

Ion	Ratio	Lower	Upper
43	100		
58	32.1	39.0	58.4#
57	16.0	0.9	1.3#

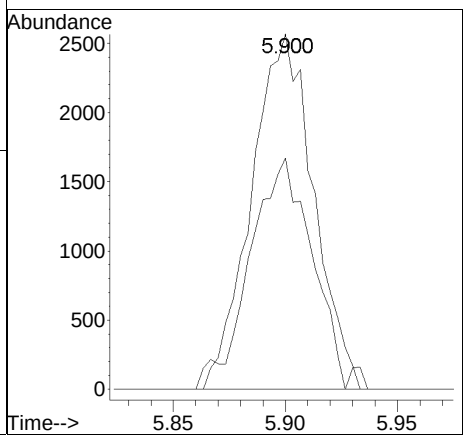


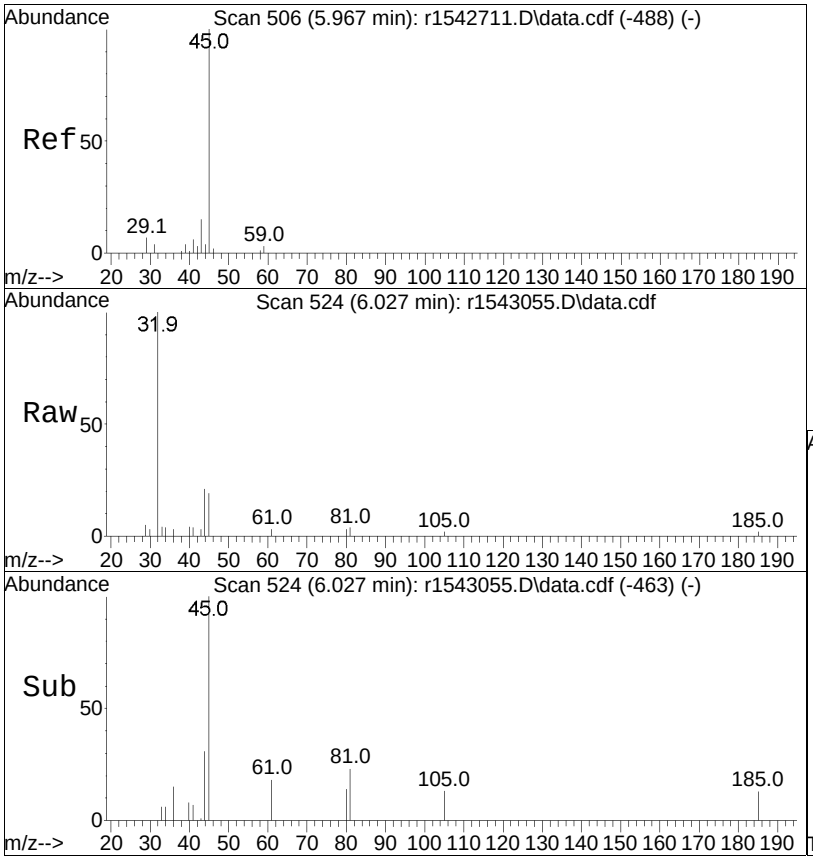


#21
trichlorofluoromethane
Concen: 0.27 ppbV
RT: 5.900 min Scan# 486
Delta R.T. -0.037 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion:101 Resp: 4952

Ion	Ratio	Lower	Upper
101	100		
103	65.1	49.4	74.0

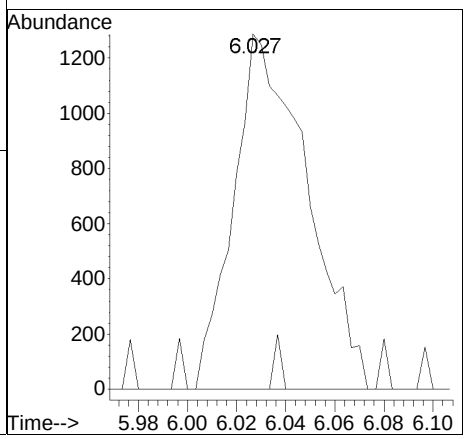


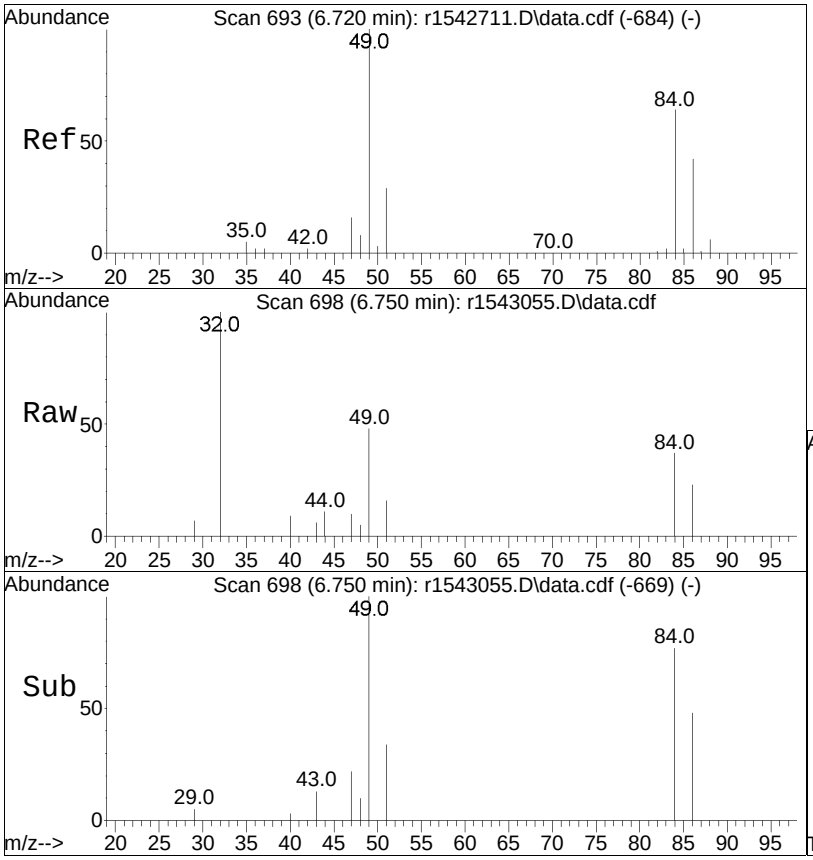


#22
isopropyl alcohol
Concen: 0.17 ppbV
RT: 6.027 min Scan# 524
Delta R.T. 0.003 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 45 Resp: 2680

Ion	Ratio	Lower	Upper
45	100		
59	0.0	4.6	6.8#

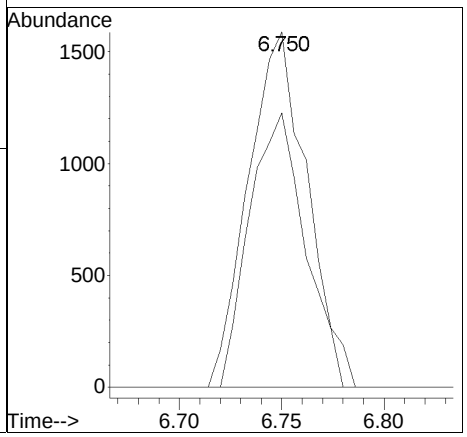


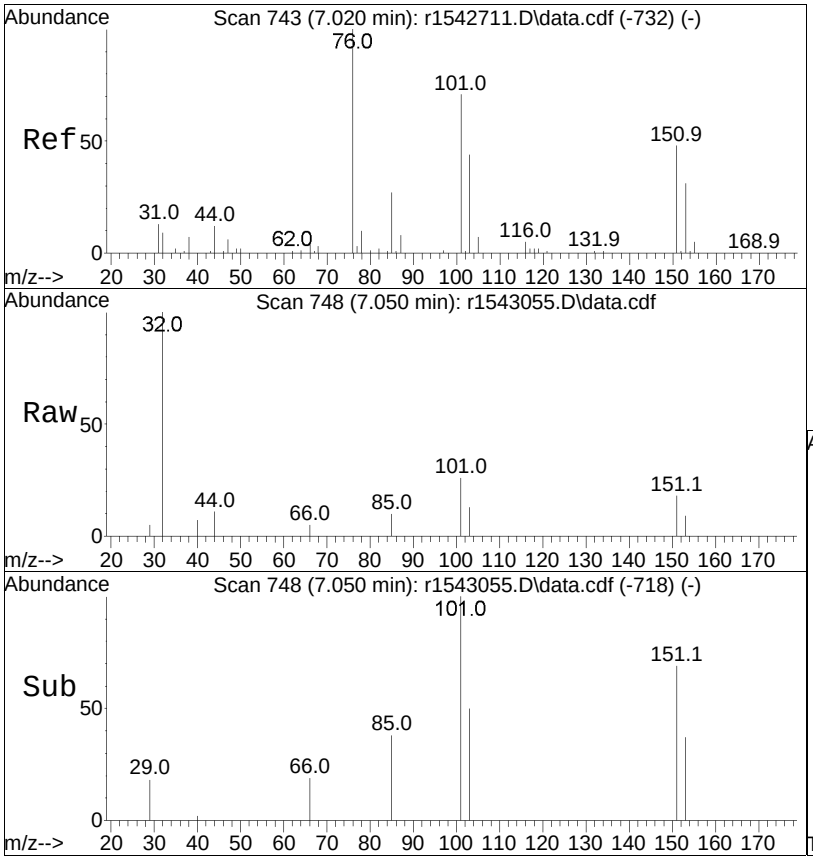


#28
methylene chloride
Concen: 0.19 ppbV
RT: 6.750 min Scan# 698
Delta R.T. -0.028 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 49 Resp: 3187

Ion	Ratio	Lower	Upper
49	100		
84	77.2	61.2	91.8

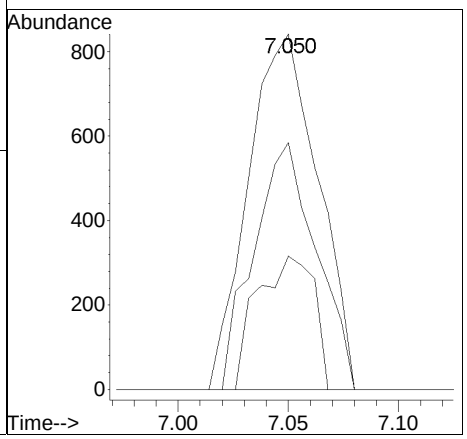


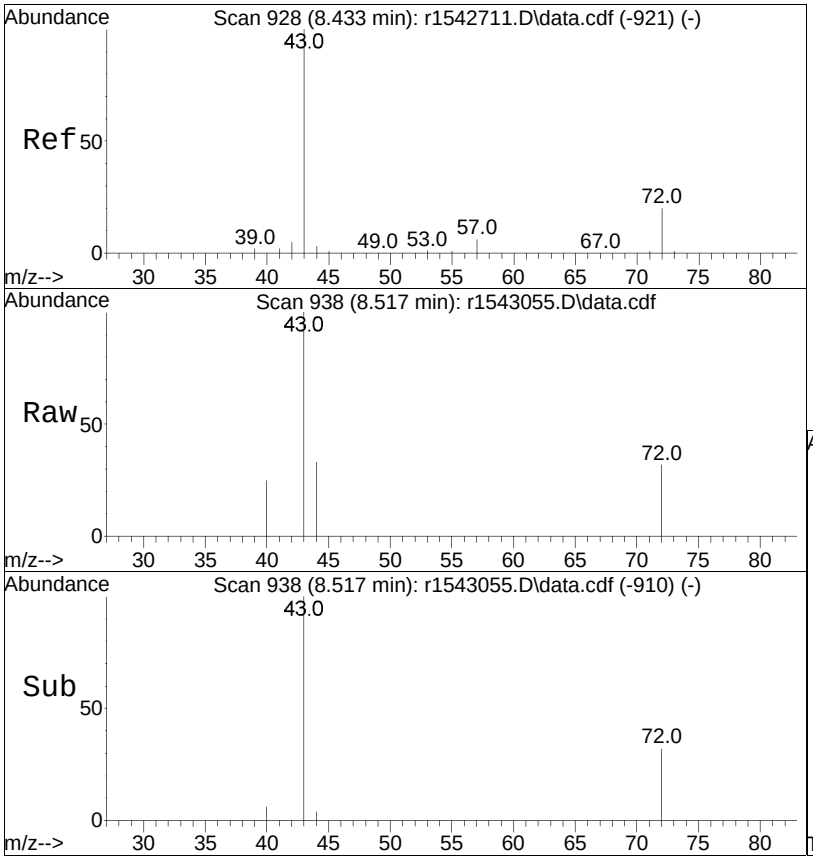


#31
Freon 113
Concen: 0.08 ppbV
RT: 7.050 min Scan# 748
Delta R.T. -0.022 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion:101 Resp: 1852

Ion	Ratio	Lower	Upper
101	100		
85	37.5	35.3	52.9
151	69.5	63.8	95.8

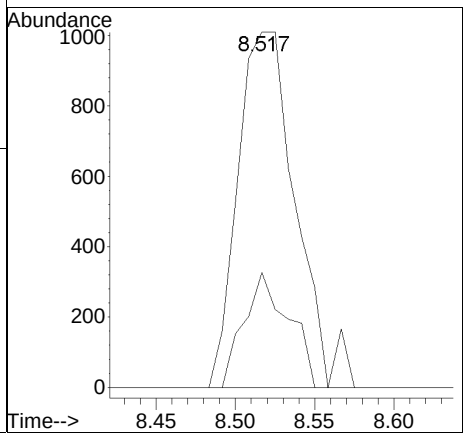


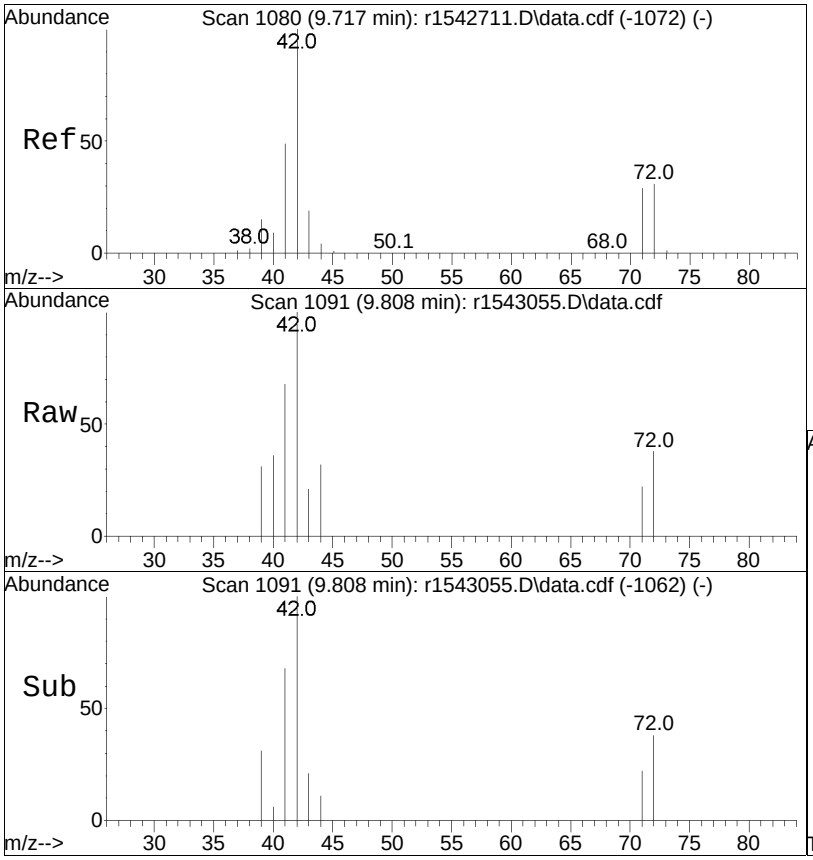


#36
2-butanone
Concen: 0.09 ppbV
RT: 8.517 min Scan# 938
Delta R.T. 0.033 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 43 Resp: 2572

Ion	Ratio	Lower	Upper
43	100		
72	32.4	21.0	31.4#
57	0.0	7.1	10.7#

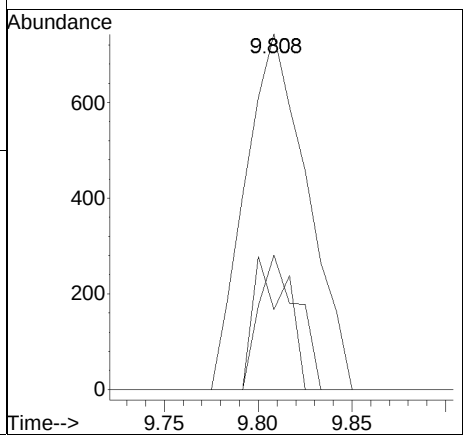


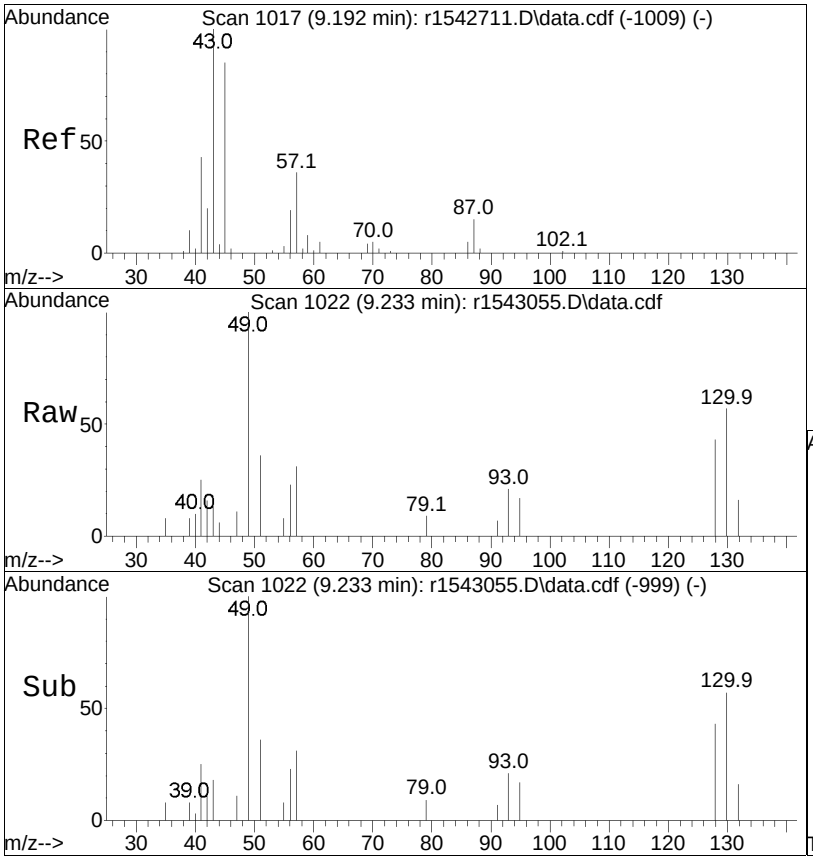


#40
Tetrahydrofuran
Concen: 0.09 ppbV
RT: 9.808 min Scan# 1091
Delta R.T. 0.042 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 42 Resp: 1710

Ion	Ratio	Lower	Upper
42	100		
71	22.5	30.6	46.0#
72	37.8	32.5	48.7

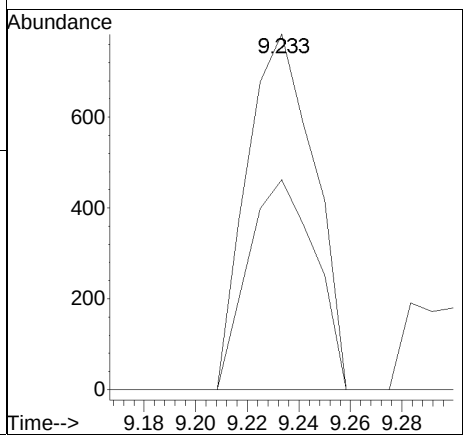


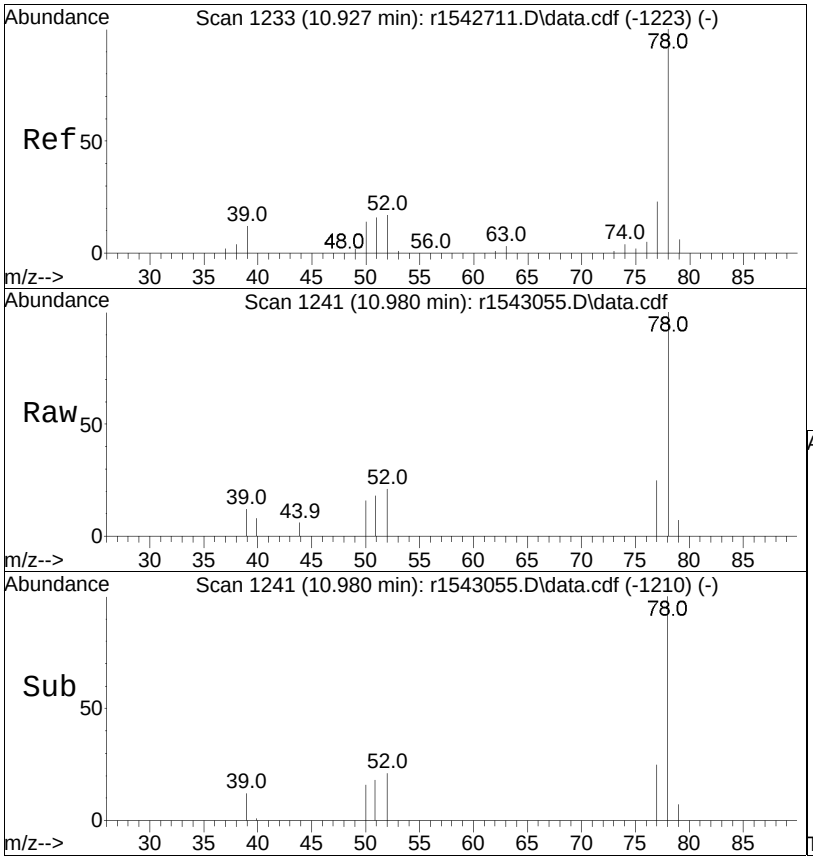


#44
hexane
Concen: 0.05 ppbV
RT: 9.233 min Scan# 1022
Delta R.T. -0.008 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 57 Resp: 1418

Ion	Ratio	Lower	Upper
57	100		
43	59.0	146.8	220.2#
86	0.0	12.7	19.1#

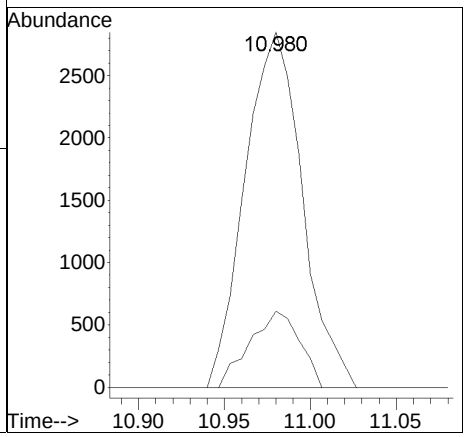


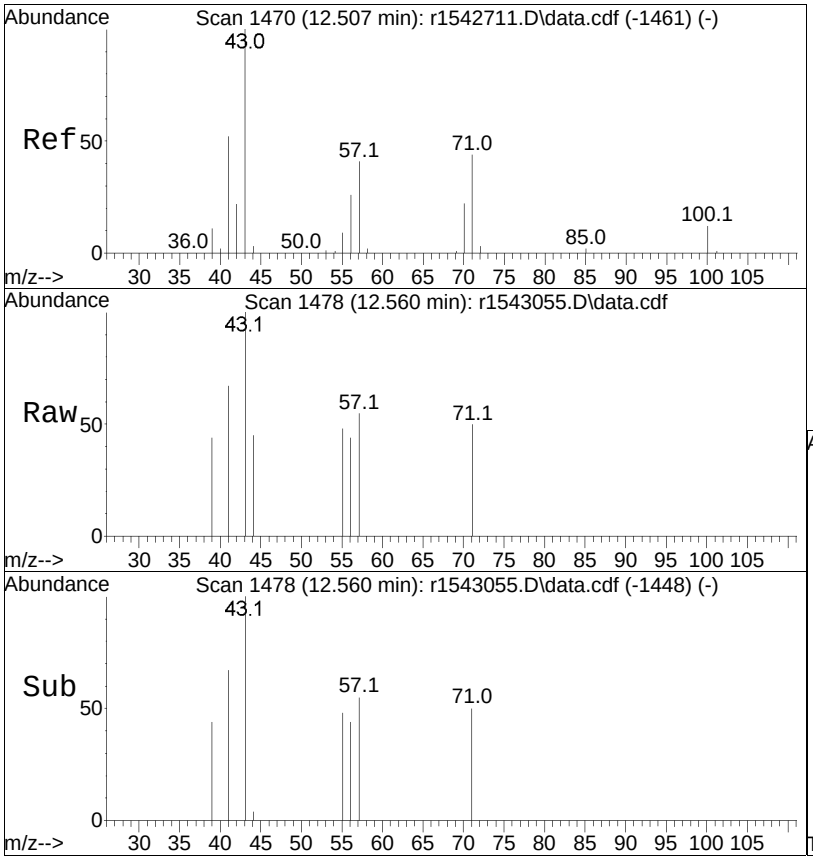


#50
benzene
Concen: 0.14 ppbV
RT: 10.980 min Scan# 1241
Delta R.T. 0.007 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 78 Resp: 6600

Ion	Ratio	Lower	Upper
78	100		
52	21.5	14.1	21.1#

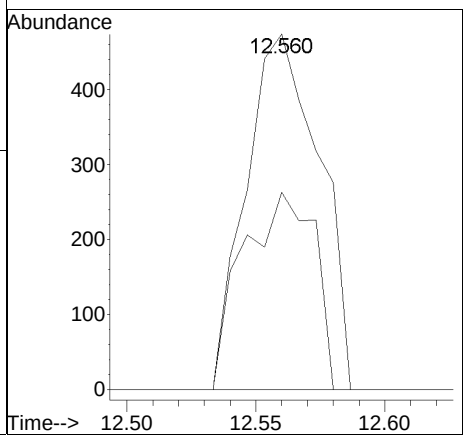


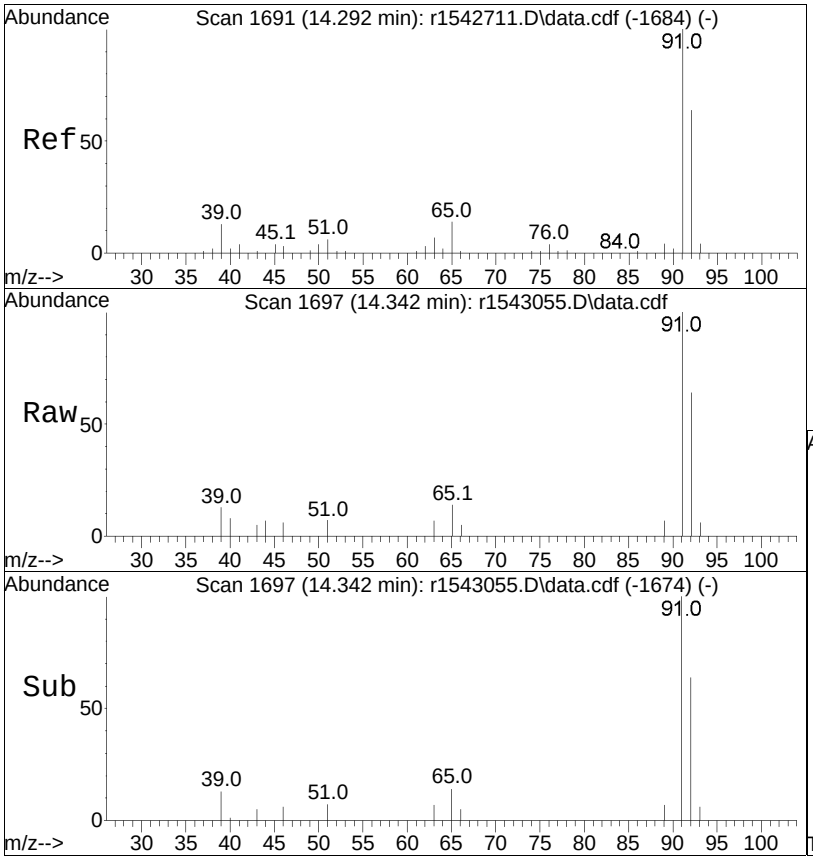


#62
heptane
Concen: 0.03 ppbV
RT: 12.560 min Scan# 1478
Delta R.T. 0.000 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 43 Resp: 936

Ion	Ratio	Lower	Upper
43	100		
57	55.5	46.6	70.0
100	0.0	13.3	19.9#

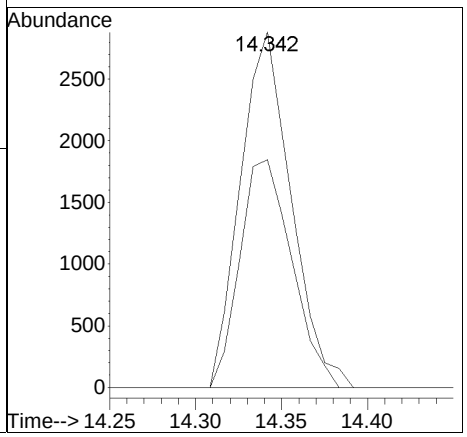


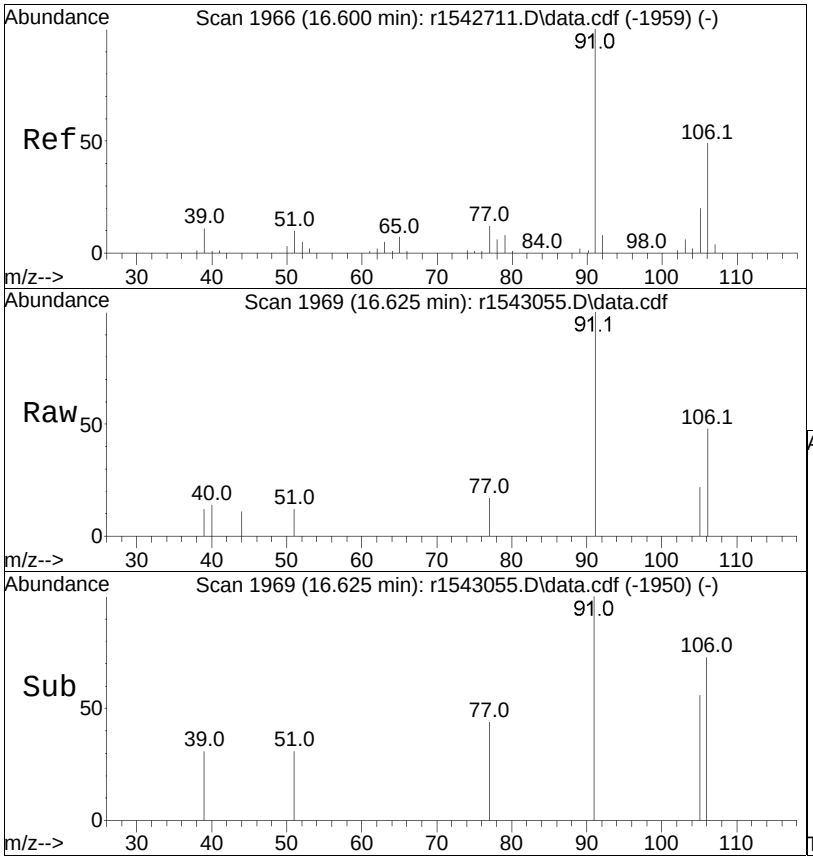


#68
toluene
Concen: 0.09 ppbV
RT: 14.342 min Scan# 1697
Delta R.T. -0.008 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 91 Resp: 5924

Ion	Ratio	Lower	Upper
91	100		
92	64.1	51.0	76.4

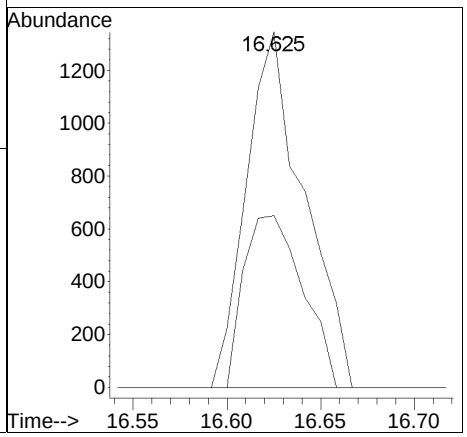




#83
m+p-xylene
Concen: 0.04 ppbV
RT: 16.625 min Scan# 1969
Delta R.T. -0.042 min
Lab File: r1543055.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion: 91 Resp: 2887

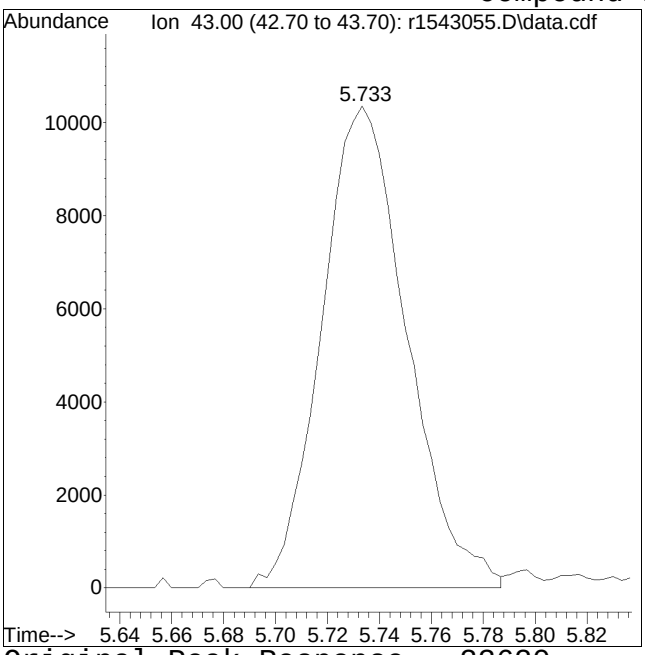
Ion	Ratio	Lower	Upper
91	100		
106	48.3	42.7	64.1



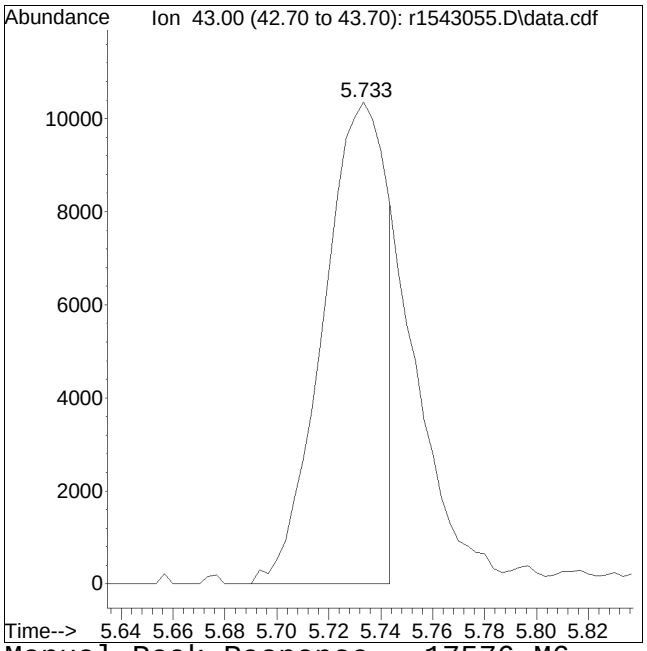
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543055.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:8: 6 Instrument :
Sample : L2409206-15,3,250,250 Quant Date : 2/27/2024 7:20 am

Compound #19: acetone



Original Peak Response = 23620



Manual Peak Response = 17576 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543056.D
Acq On : 26 Feb 2024 8:58 PM
Operator : AIRLAB15:KJD
Sample : L2409206-02,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:20:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.167	49	220872	10.000	ppbV	0.00
Standard Area = 240397			Recovery =		91.88%	
43) 1,4-difluorobenzene	11.400	114	604040	10.000	ppbV	0.00
Standard Area = 687087			Recovery =		87.91%	
67) chlorobenzene-D5	16.083	54	114949	10.000	ppbV	-0.03
Standard Area = 126242			Recovery =		91.05%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	13460	0.535	ppbV	100
6) chloromethane	4.198	50	5623	0.594	ppbV	97
7) Freon-114	4.306		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	4.798	94	929	0.084	ppbV #	1
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.212	31	30872	3.715	ppbV	90
17) vinyl bromide	0.000		0	N.D.	d	
19) acetone	5.710	43	6141M6	0.493	ppbV	
21) trichlorofluoromethane	5.897	101	4965	0.264	ppbV	95
22) isopropyl alcohol	6.037	45	6666	0.424	ppbV #	83
27) tertiary butyl alcohol	6.714	59	4540	0.171	ppbV #	72
28) methylene chloride	6.744	49	4268	0.251	ppbV	99
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.056		0	N.D.		
31) Freon 113	7.044	101	1678	0.068	ppbV	88
32) trans-1,2-dichloroethene	7.800	61	4190	0.193	ppbV #	86
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.508	43	4541	0.155	ppbV	93
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.317		0	N.D.		
40) Tetrahydrofuran	9.808	42	3228	0.176	ppbV #	85
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.233	57	2997	0.113	ppbV #	20
50) benzene	10.973	78	8526	0.174	ppbV	98
53) cyclohexane	11.300	56	1176	0.041	ppbV #	77
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543056.D
Acq On : 26 Feb 2024 8:58 PM
Operator : AIRLAB15:KJD
Sample : L2409206-02,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:20:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

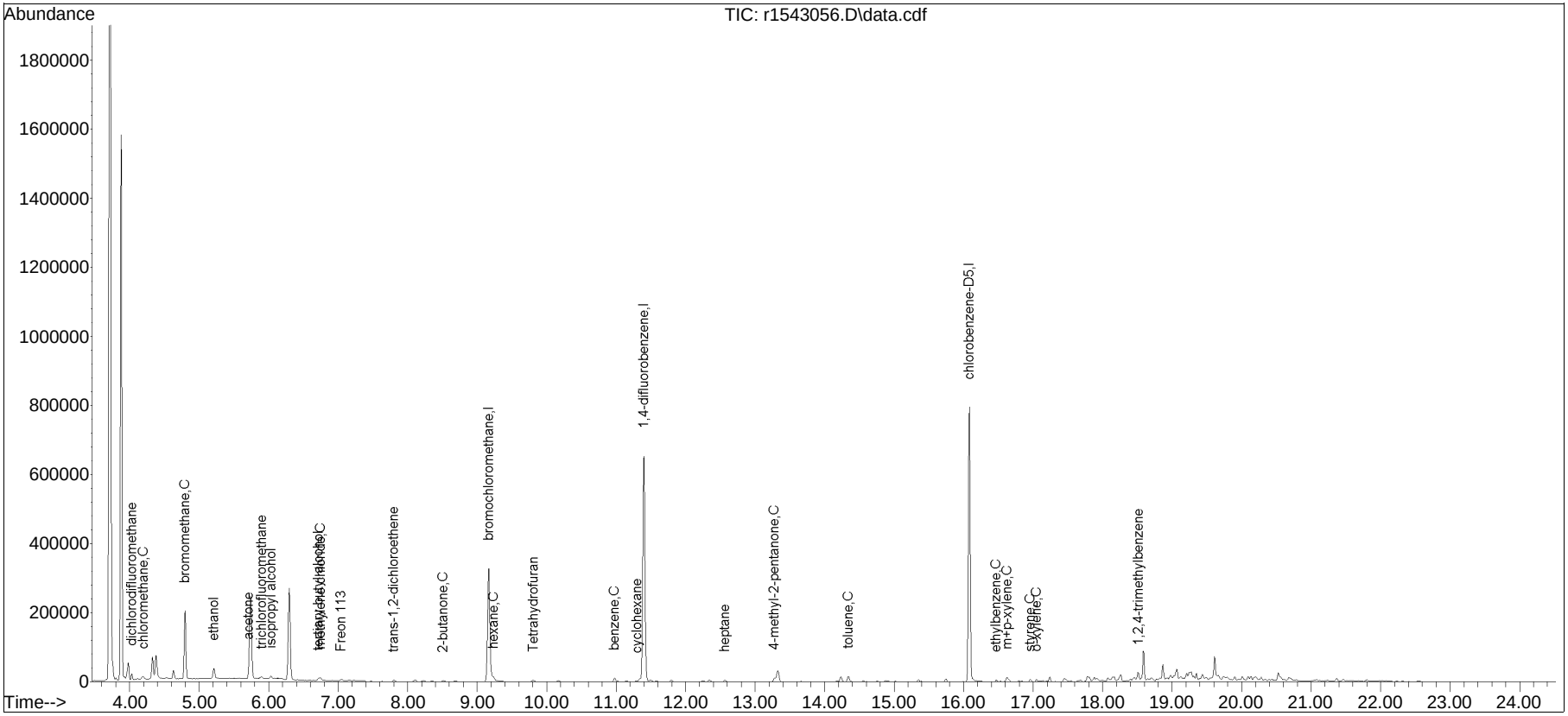
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.247		0	N.D.		
62) heptane	12.567	43	1813	0.062	ppbV #	86
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.275	43	10549	0.320	ppbV #	89
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.342	91	12138	0.184	ppbV	90
72) 2-hexanone	0.000		0	N.D.	d	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.	d	
81) ethylbenzene	16.467	91	4019	0.048	ppbV	92
83) m+p-xylene	16.625	91	11299	0.170	ppbV	88
84) bromoform	0.000		0	N.D.		
85) styrene	16.958	104	2799	0.052	ppbV	97
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d	
87) o-xylene	17.050	91	4174	0.063	ppbV	94
96) 4-ethyl toluene	18.100		0	N.D.		
97) 1,3,5-trimethylbenzene	18.167		0	N.D.		
99) 1,2,4-trimethylbenzene	18.517	105	3441	0.046	ppbV #	60
101) Benzyl Chloride	18.700		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.	d	
103) 1,4-dichlorobenzene	18.708		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.		

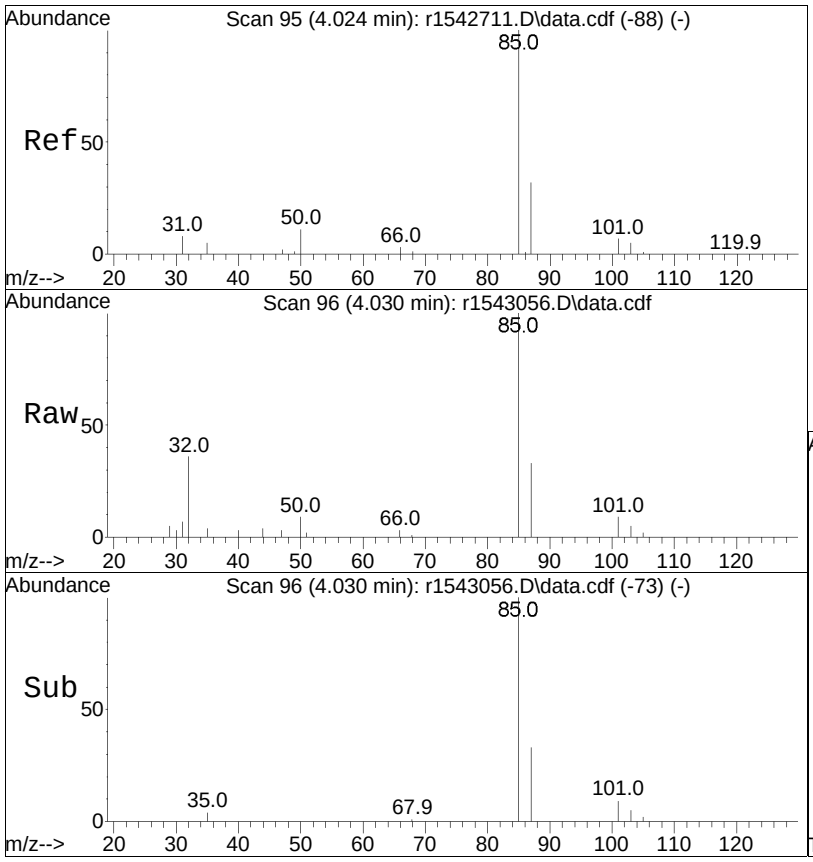
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab15\2024\02\0226T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543056.D
Acq On : 26 Feb 2024 8:58 PM
Operator : AIRLAB15:KJD
Sample : L2409206-02,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:20:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

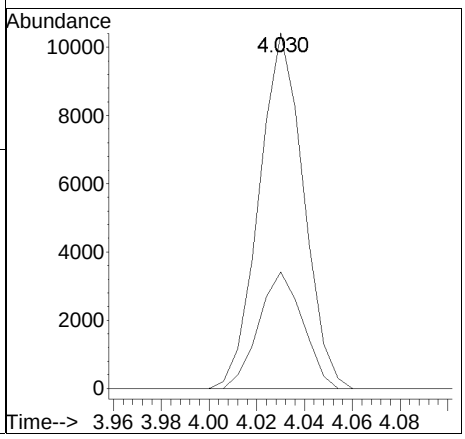


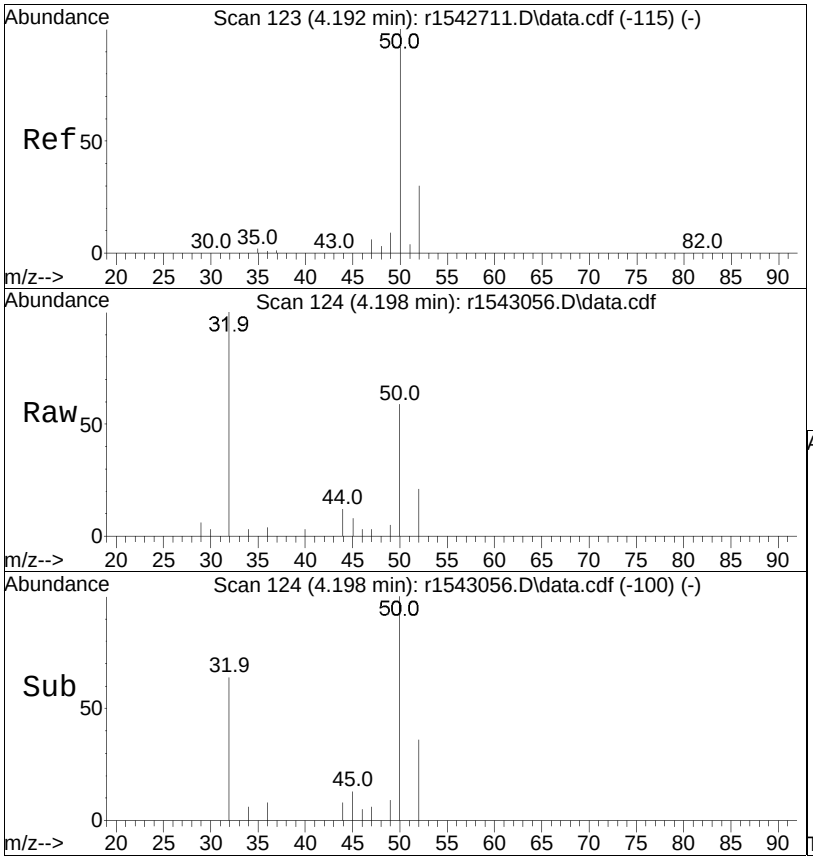


#5
dichlorodifluoromethane
Concen: 0.54 ppbV
RT: 4.030 min Scan# 96
Delta R.T. -0.064 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 85 Resp: 13460

Ion	Ratio	Lower	Upper
85	100		
87	32.8	26.1	39.1

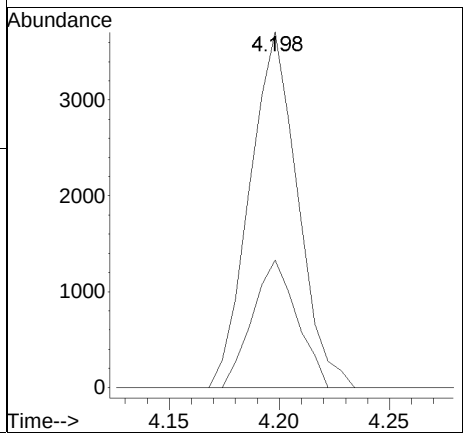


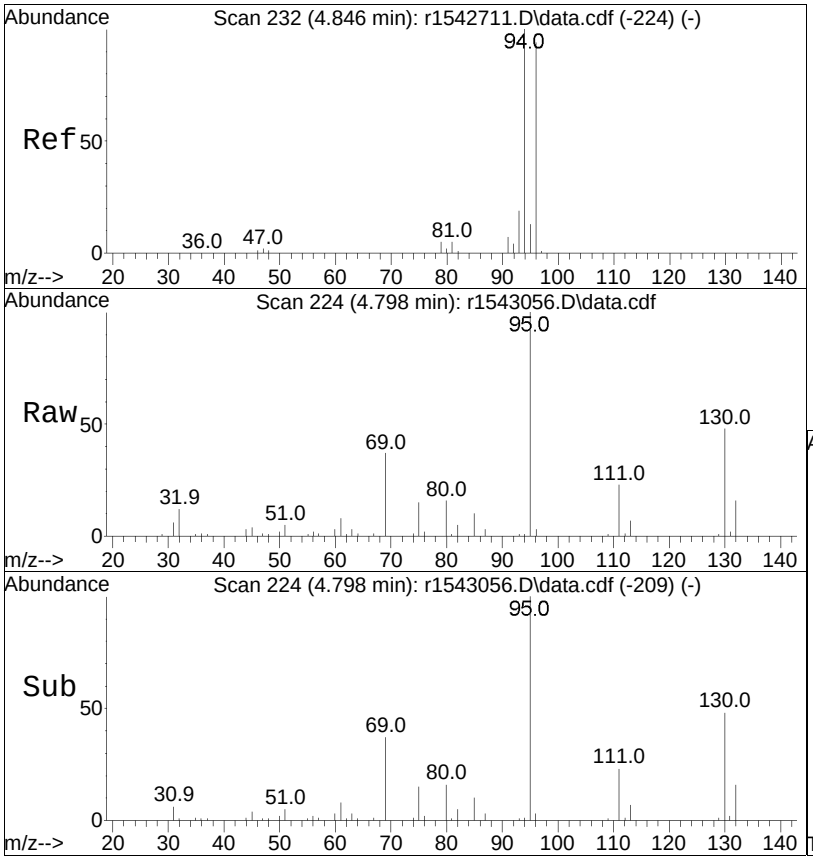


#6
chloromethane
Concen: 0.59 ppbV
RT: 4.198 min Scan# 124
Delta R.T. -0.058 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 50 Resp: 5623

Ion	Ratio	Lower	Upper
50	100		
52	35.8	27.4	41.2

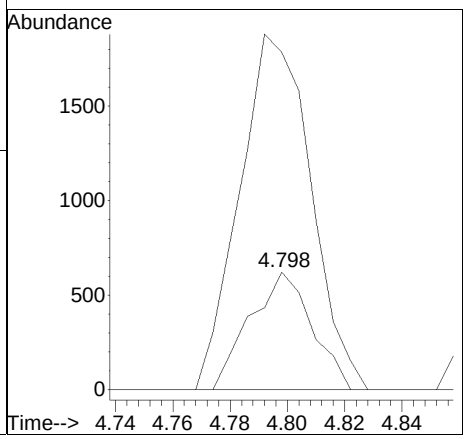


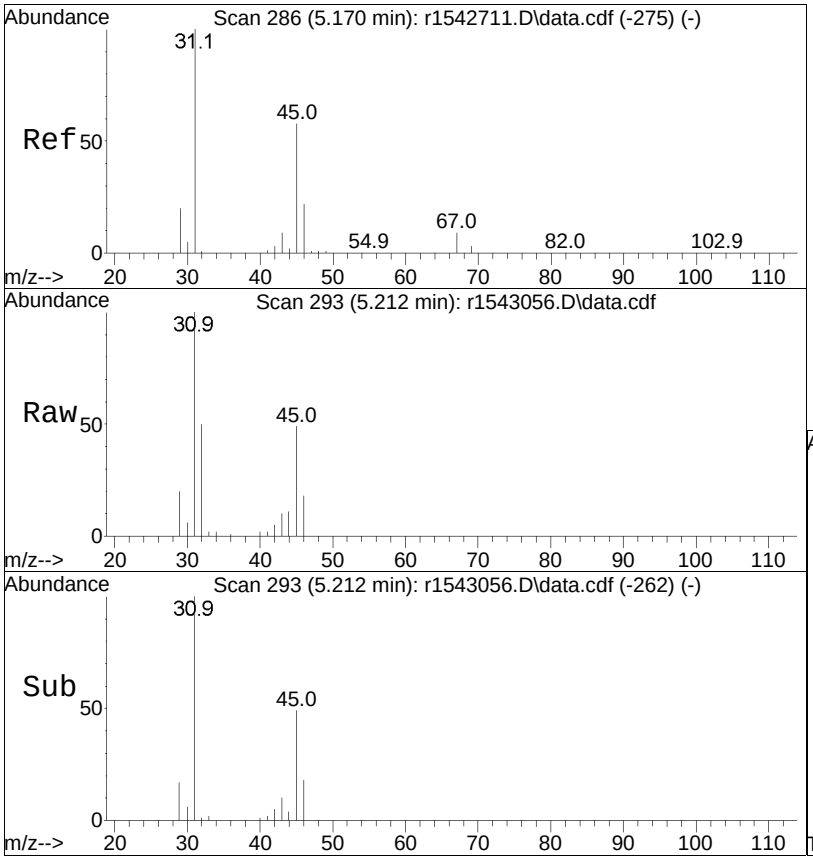


#13
bromomethane
Concen: 0.08 ppbV
RT: 4.798 min Scan# 224
Delta R.T. -0.112 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 94 Resp: 929

Ion	Ratio	Lower	Upper
94	100		
96	287.1	75.4	113.2#

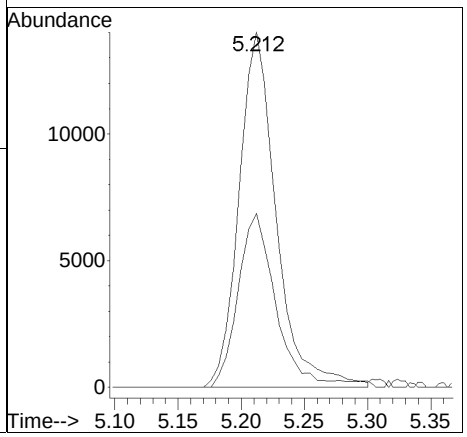


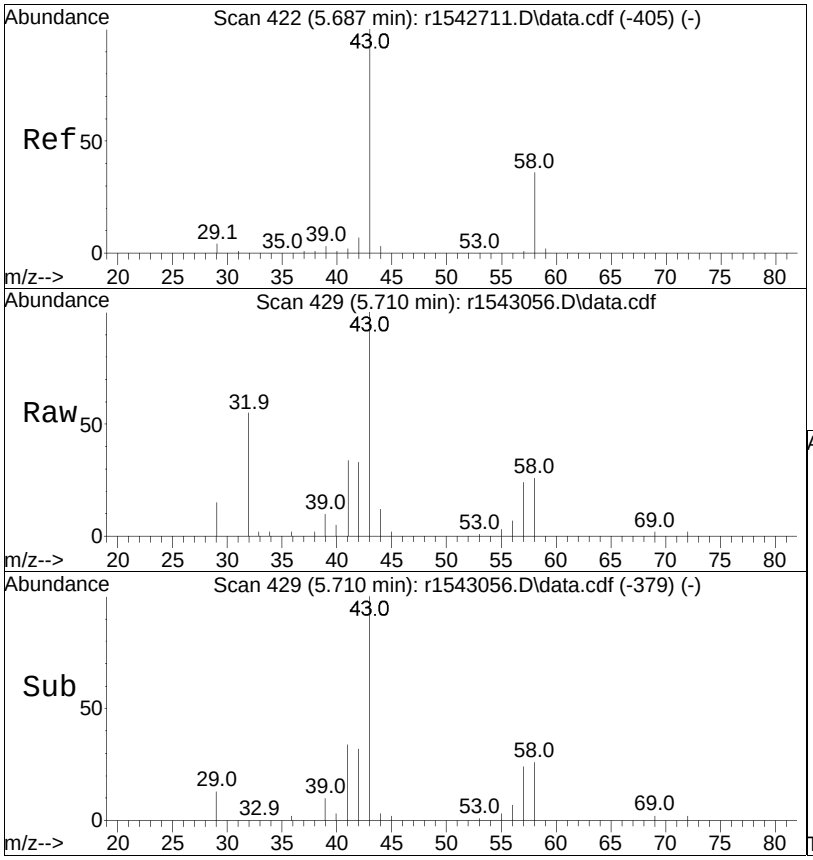


#15
ethanol
Concen: 3.72 ppbV
RT: 5.212 min Scan# 293
Delta R.T. -0.016 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 31 Resp: 30872

Ion	Ratio	Lower	Upper
31	100		
45	49.0	34.2	51.2

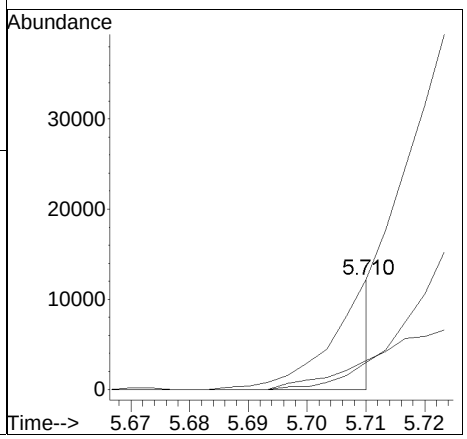


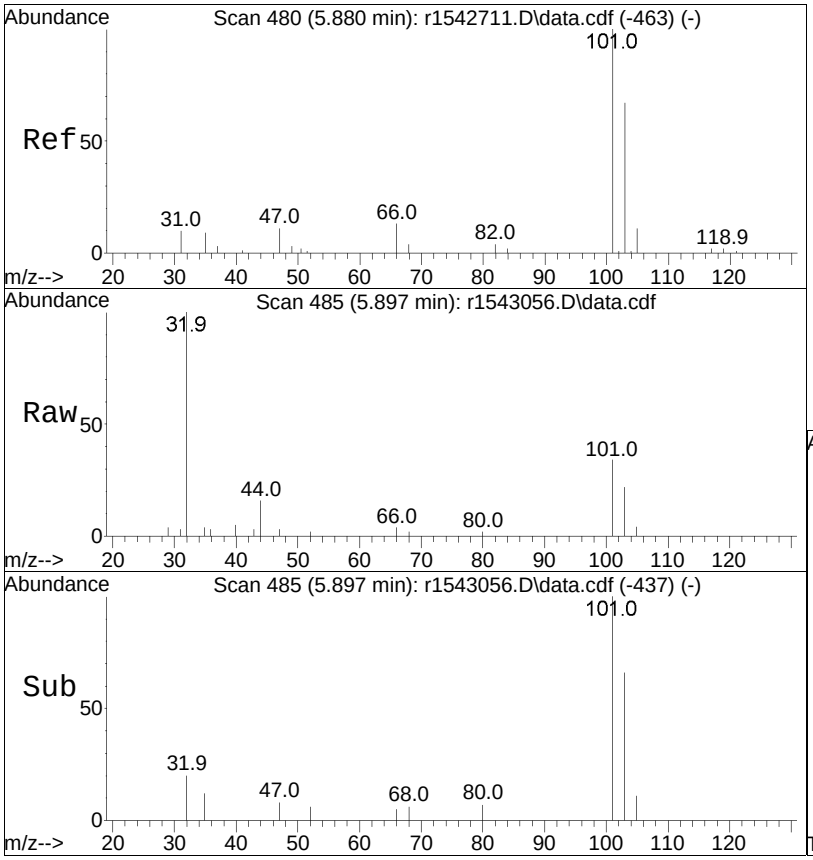


#19
acetone
Concen: 0.49 ppbV m
RT: 5.710 min Scan# 429
Delta R.T. -0.033 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 43 Resp: 6141

Ion	Ratio	Lower	Upper
43	100		
58	26.3	39.0	58.4#
57	24.5	0.9	1.3#

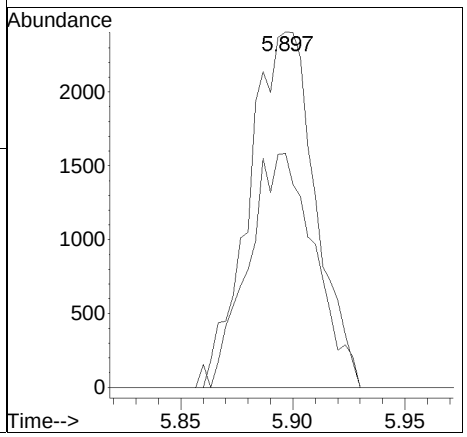


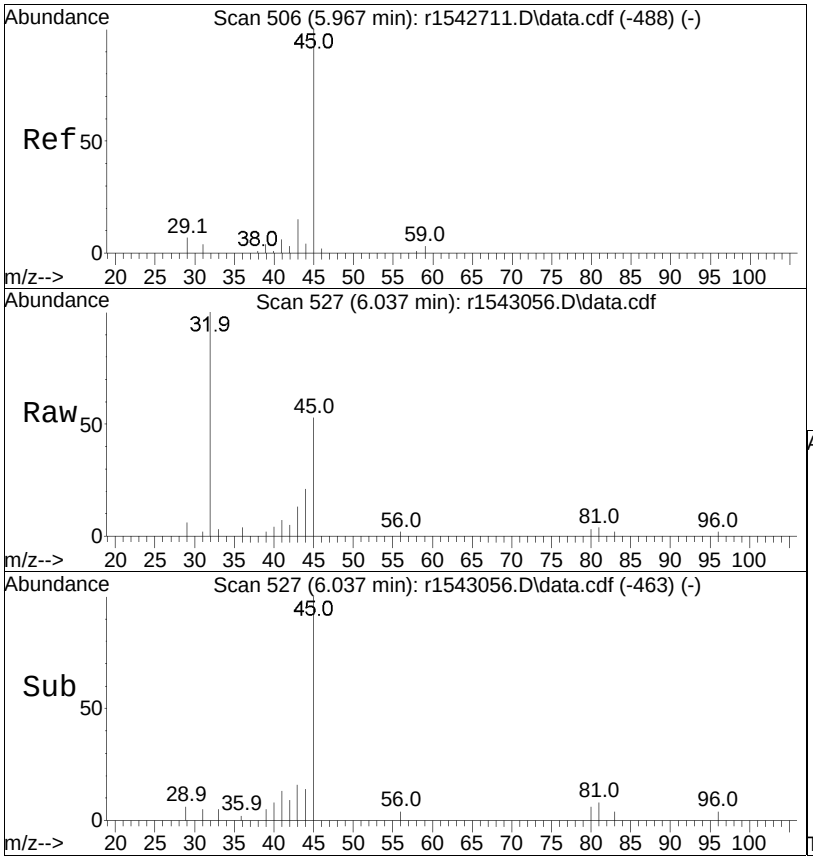


#21
trichlorofluoromethane
Concen: 0.26 ppbV
RT: 5.897 min Scan# 485
Delta R.T. -0.040 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion:101 Resp: 4965

Ion	Ratio	Lower	Upper
101	100		
103	65.9	49.4	74.0

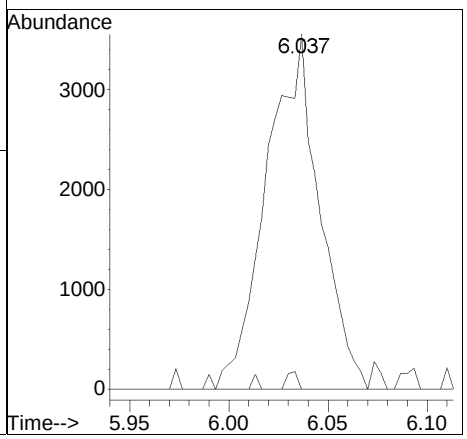


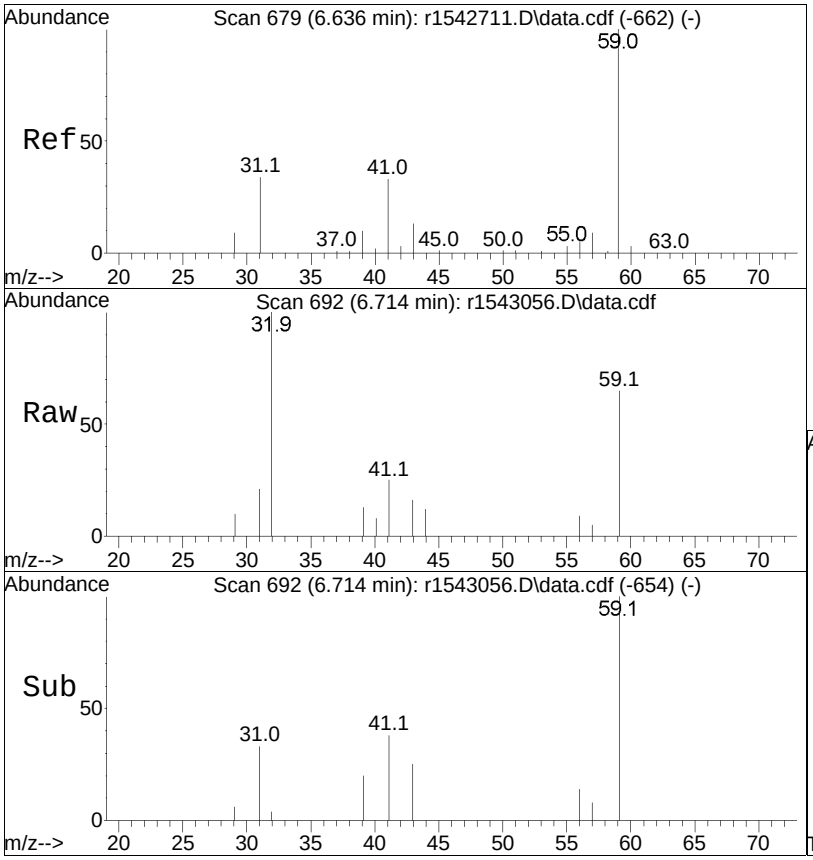


#22
isopropyl alcohol
Concen: 0.42 ppbV
RT: 6.037 min Scan# 527
Delta R.T. 0.013 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 45 Resp: 6666

Ion	Ratio	Lower	Upper
45	100		
59	0.0	4.6	6.8#

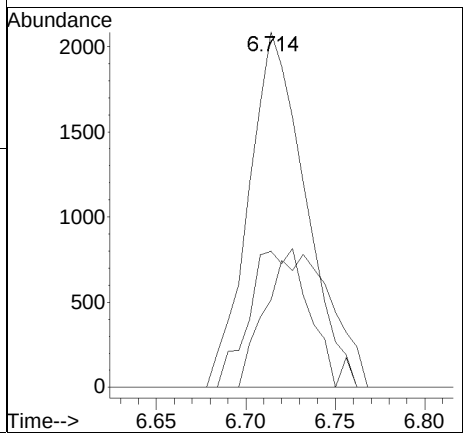


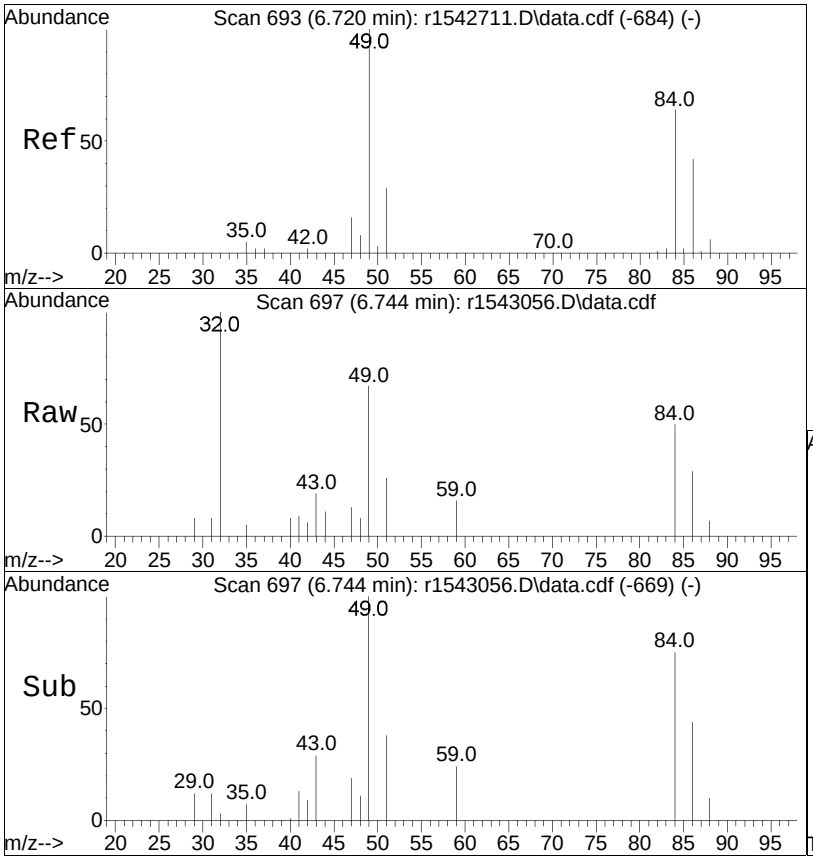


#27
tertiary butyl alcohol
Concen: 0.17 ppbV
RT: 6.714 min Scan# 692
Delta R.T. 0.026 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 59 Resp: 4540

Ion	Ratio	Lower	Upper
59	100		
41	38.3	21.0	31.4#
43	24.6	7.7	11.5#

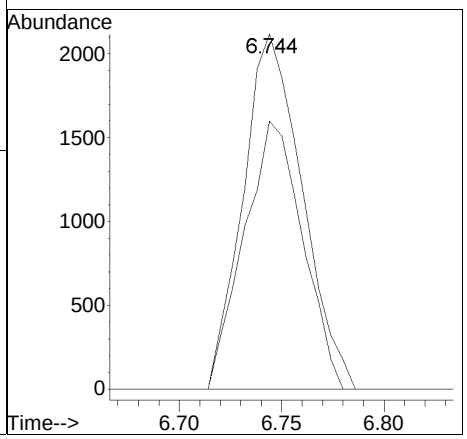


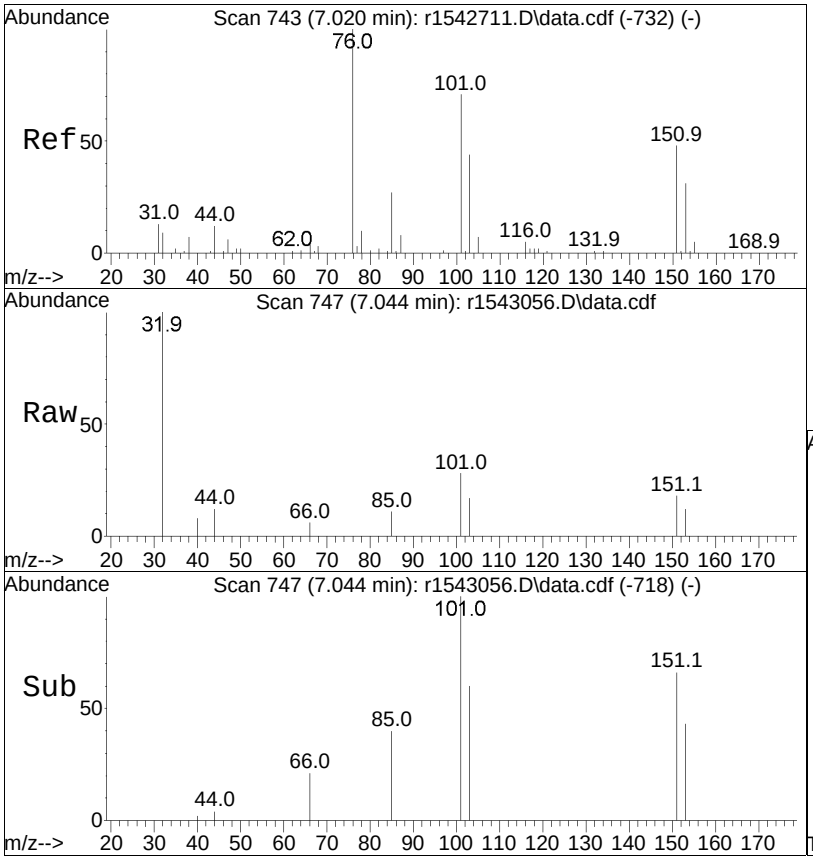


#28
methylene chloride
Concen: 0.25 ppbV
RT: 6.744 min Scan# 697
Delta R.T. -0.034 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 49 Resp: 4268

Ion	Ratio	Lower	Upper
49	100		
84	75.5	61.2	91.8

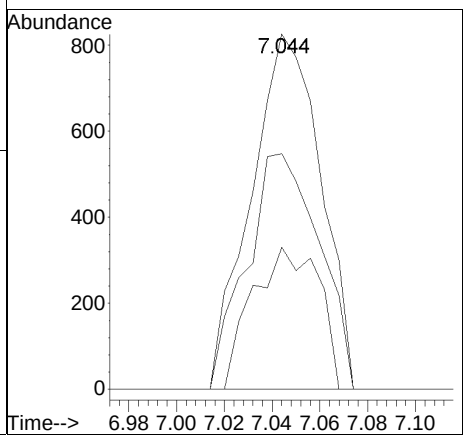


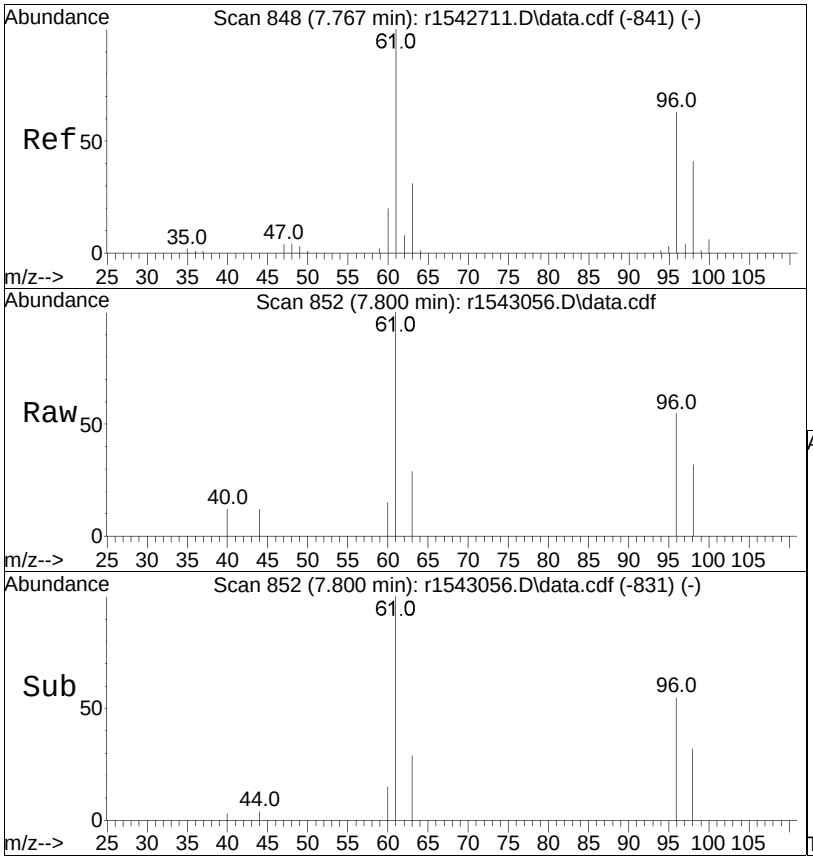


#31
Freon 113
Concen: 0.07 ppbV
RT: 7.044 min Scan# 747
Delta R.T. -0.028 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion:101 Resp: 1678

Ion	Ratio	Lower	Upper
101	100		
85	40.0	35.3	52.9
151	66.3	63.8	95.8

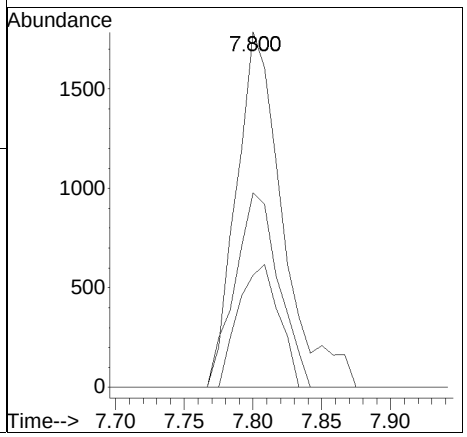


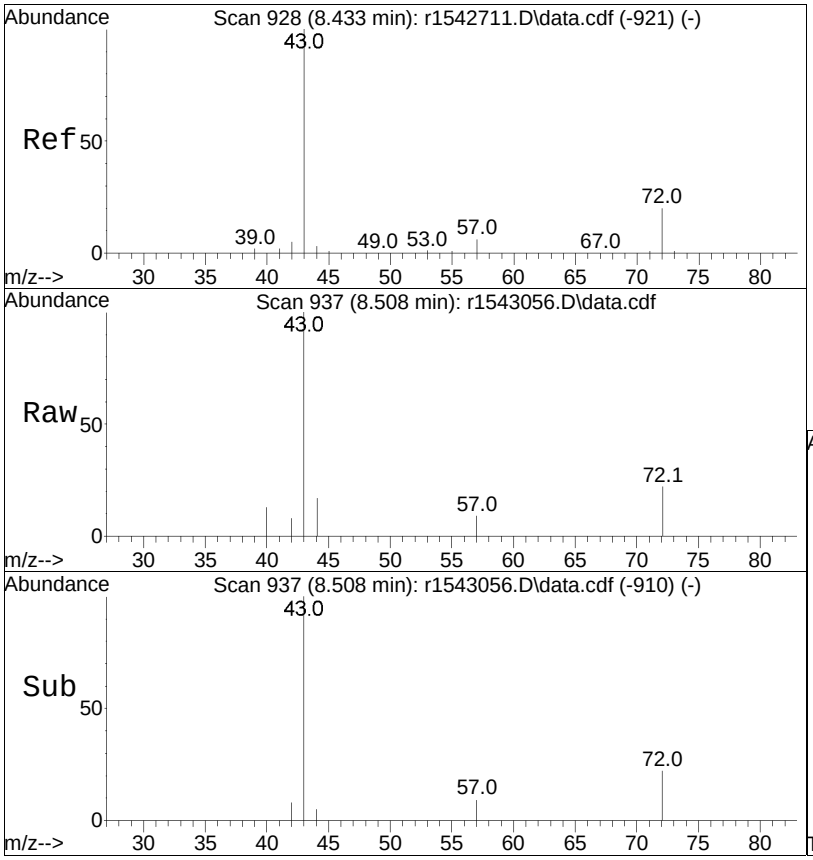


#32
trans-1,2-dichloroethene
Concen: 0.19 ppbV
RT: 7.800 min Scan# 852
Delta R.T. -0.025 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 61 Resp: 4190

Ion	Ratio	Lower	Upper
61	100		
96	54.8	52.2	78.4
98	31.6	33.0	49.4#

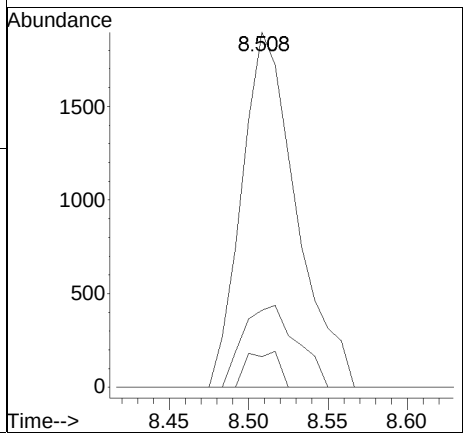


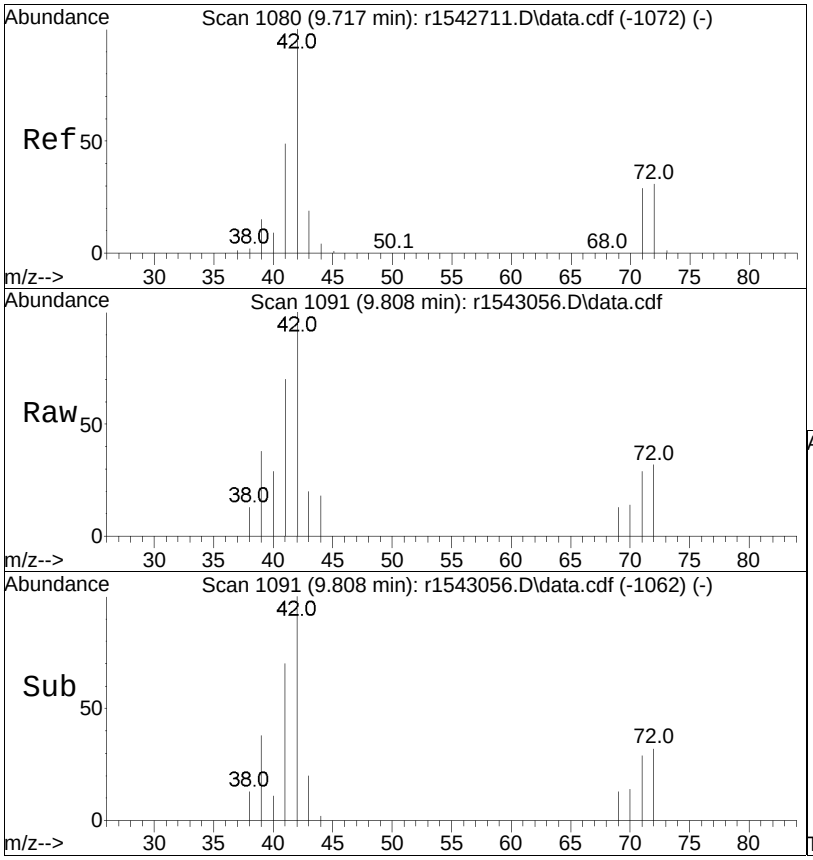


#36
2-butanone
Concen: 0.15 ppbV
RT: 8.508 min Scan# 937
Delta R.T. 0.025 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 43 Resp: 4541

Ion	Ratio	Lower	Upper
43	100		
72	21.7	21.0	31.4
57	8.6	7.1	10.7

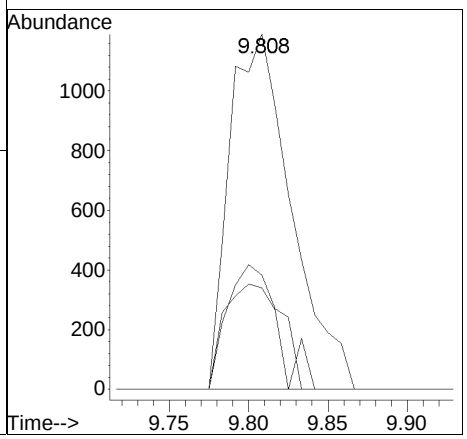


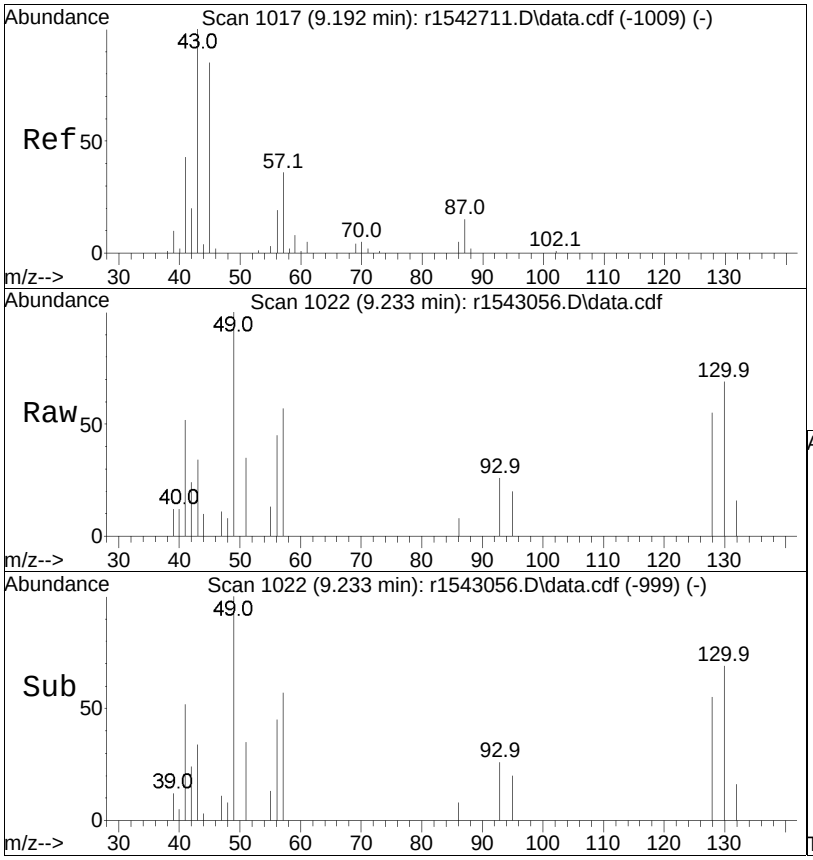


#40
Tetrahydrofuran
Concen: 0.18 ppbV
RT: 9.808 min Scan# 1091
Delta R.T. 0.042 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 42 Resp: 3228

Ion	Ratio	Lower	Upper
42	100		
71	28.5	30.6	46.0#
72	32.2	32.5	48.7#

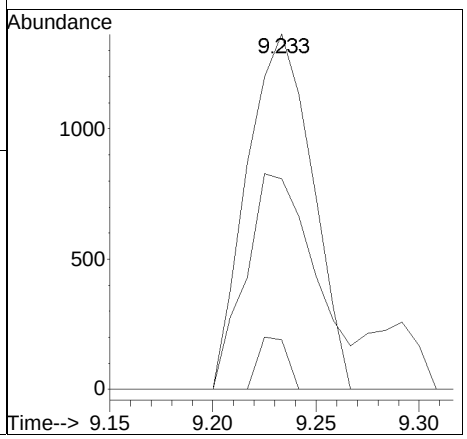


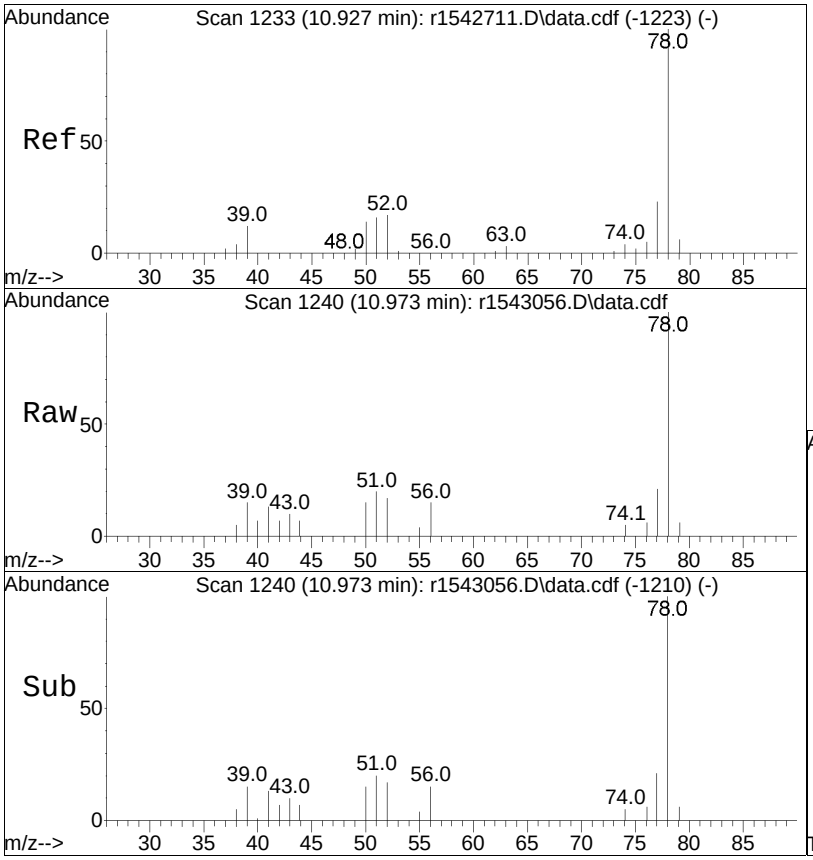


#44
hexane
Concen: 0.11 ppbV
RT: 9.233 min Scan# 1022
Delta R.T. -0.008 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 57 Resp: 2997

Ion	Ratio	Lower	Upper
57	100		
43	59.2	146.8	220.2#
86	13.9	12.7	19.1

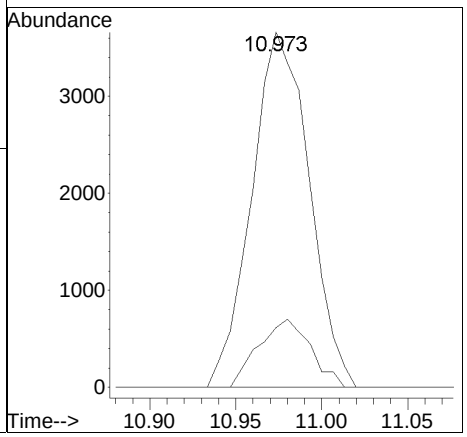


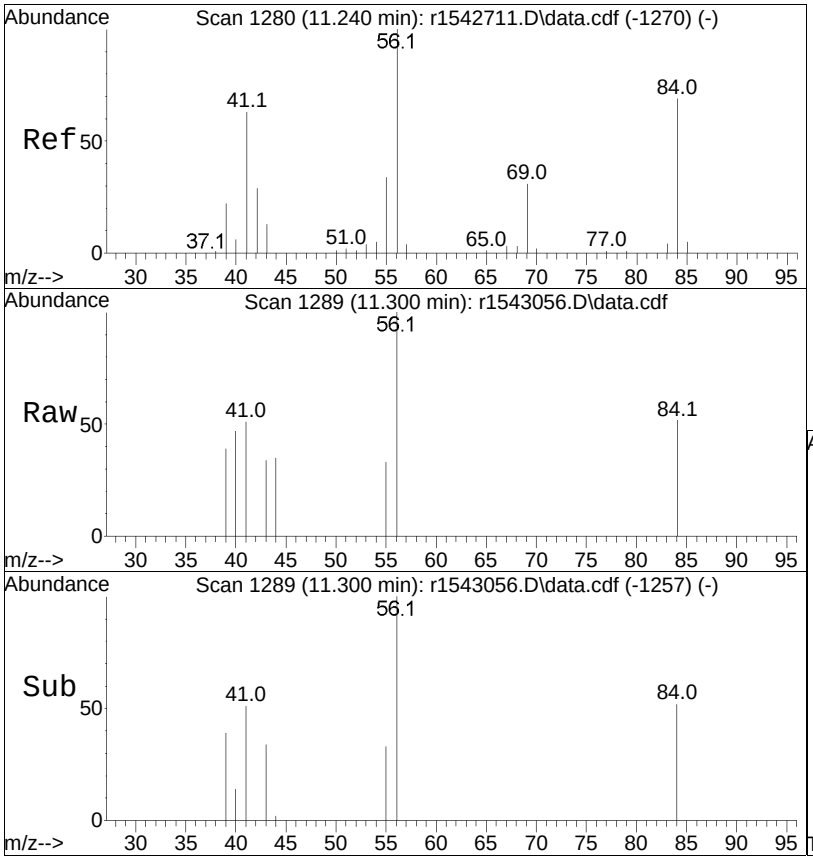


#50
benzene
Concen: 0.17 ppbV
RT: 10.973 min Scan# 1240
Delta R.T. 0.000 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 78 Resp: 8526

Ion	Ratio	Lower	Upper
78	100		
52	16.8	14.1	21.1

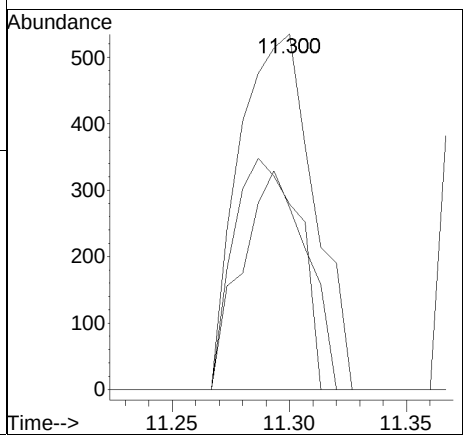


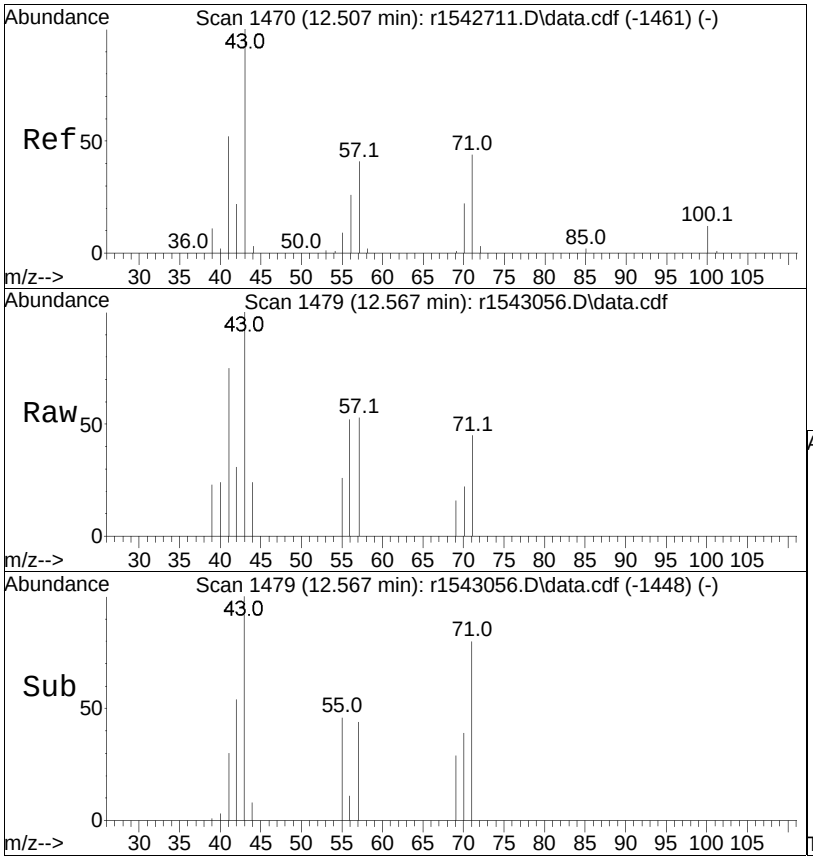


#53
cyclohexane
Concen: 0.04 ppbV
RT: 11.300 min Scan# 1289
Delta R.T. 0.013 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 56 Resp: 1176

Ion	Ratio	Lower	Upper
56	100		
84	52.1	60.2	90.2#
41	51.2	33.5	50.3#

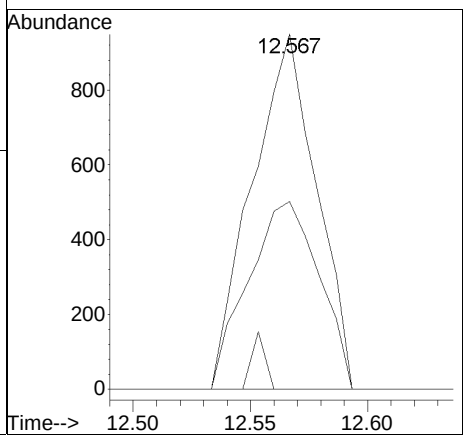


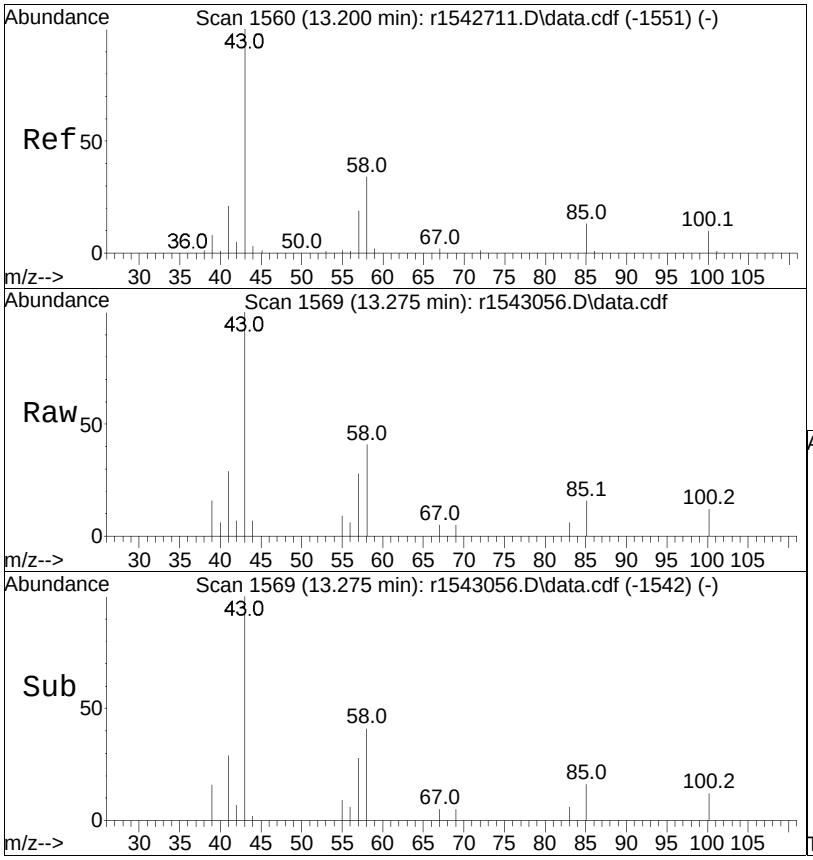


#62
heptane
Concen: 0.06 ppbV
RT: 12.567 min Scan# 1479
Delta R.T. 0.007 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 43 Resp: 1813

Ion	Ratio	Lower	Upper
43	100		
57	52.8	46.6	70.0
100	0.0	13.3	19.9#

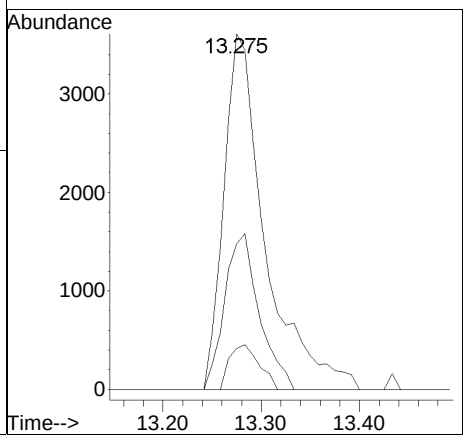


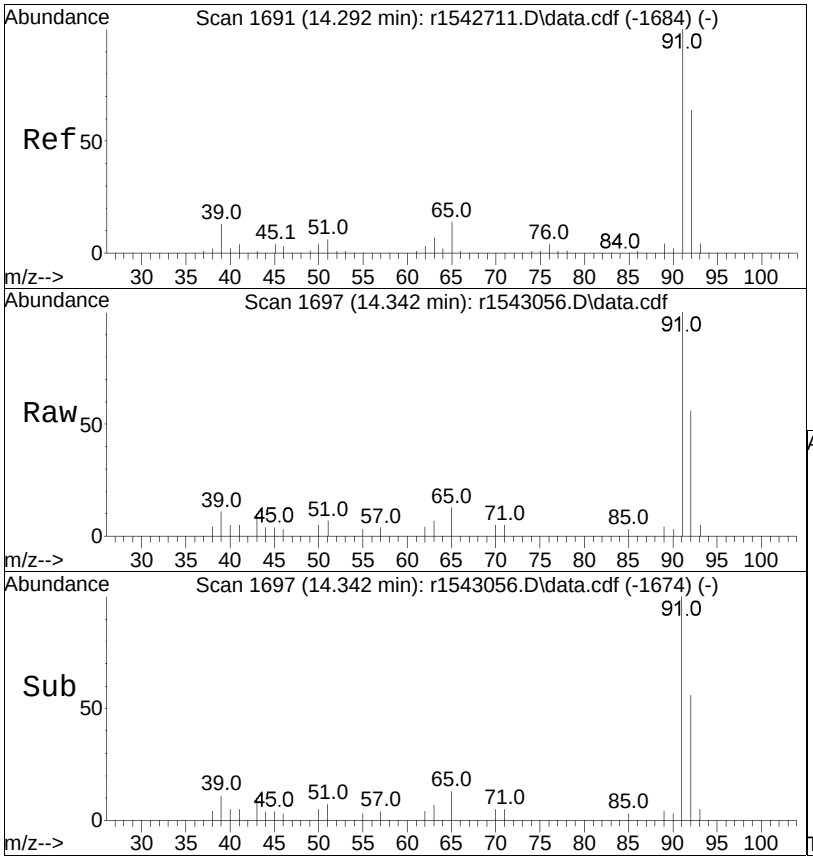


#64
4-methyl-2-pentanone
Concen: 0.32 ppbV
RT: 13.275 min Scan# 1569
Delta R.T. 0.025 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 43 Resp: 10549

Ion	Ratio	Lower	Upper
43	100		
58	41.0	39.5	59.3
100	11.6	11.8	17.6#

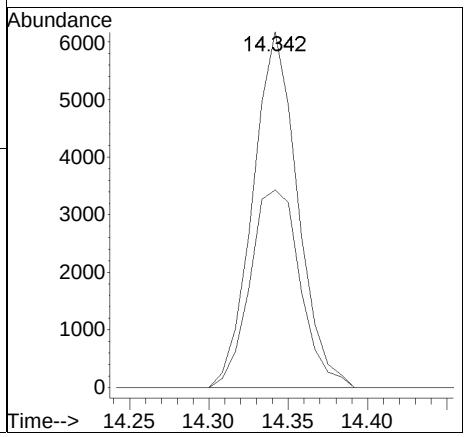


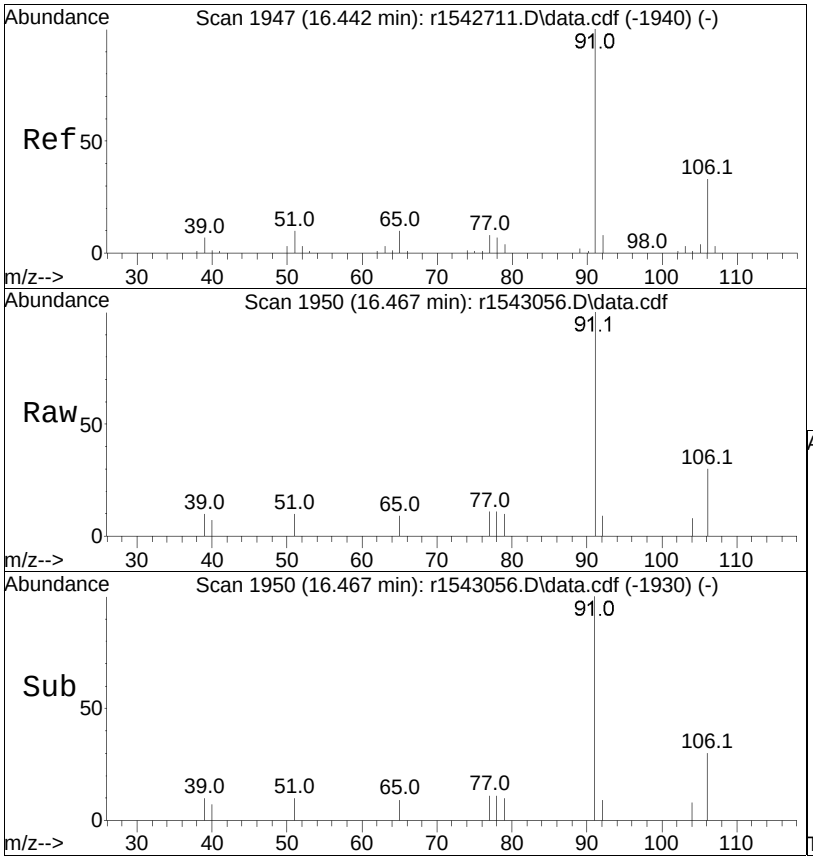


#68
toluene
Concen: 0.18 ppbV
RT: 14.342 min Scan# 1697
Delta R.T. -0.008 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 91 Resp: 12138

Ion	Ratio	Lower	Upper
91	100		
92	55.6	51.0	76.4

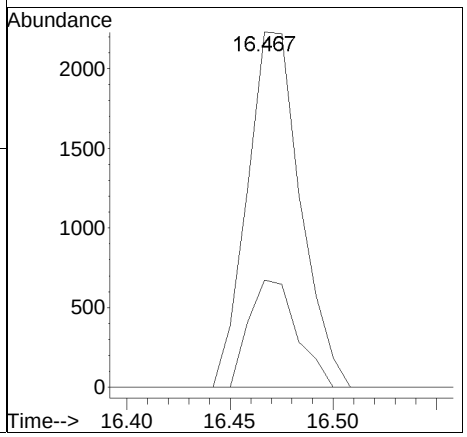


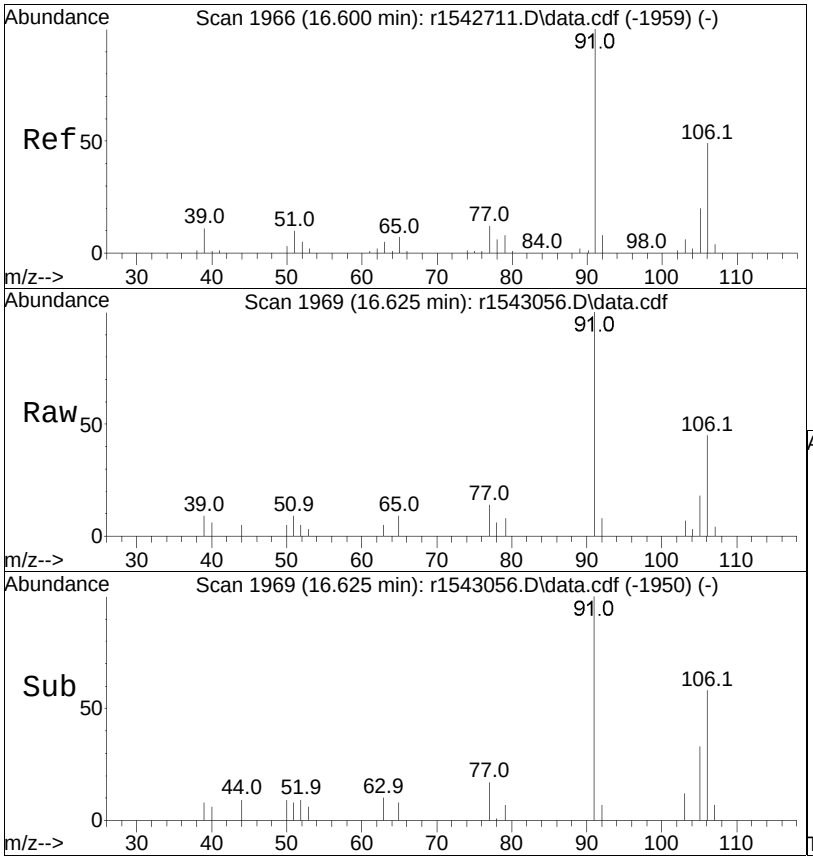


#81
ethylbenzene
Concen: 0.05 ppbV
RT: 16.467 min Scan# 1950
Delta R.T. -0.033 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 91 Resp: 4019

Ion	Ratio	Lower	Upper
91	100		
106	30.2	27.7	41.5

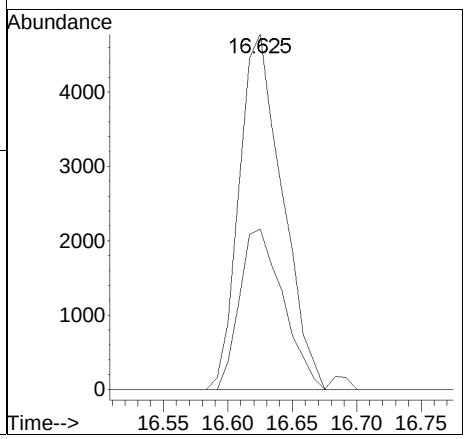


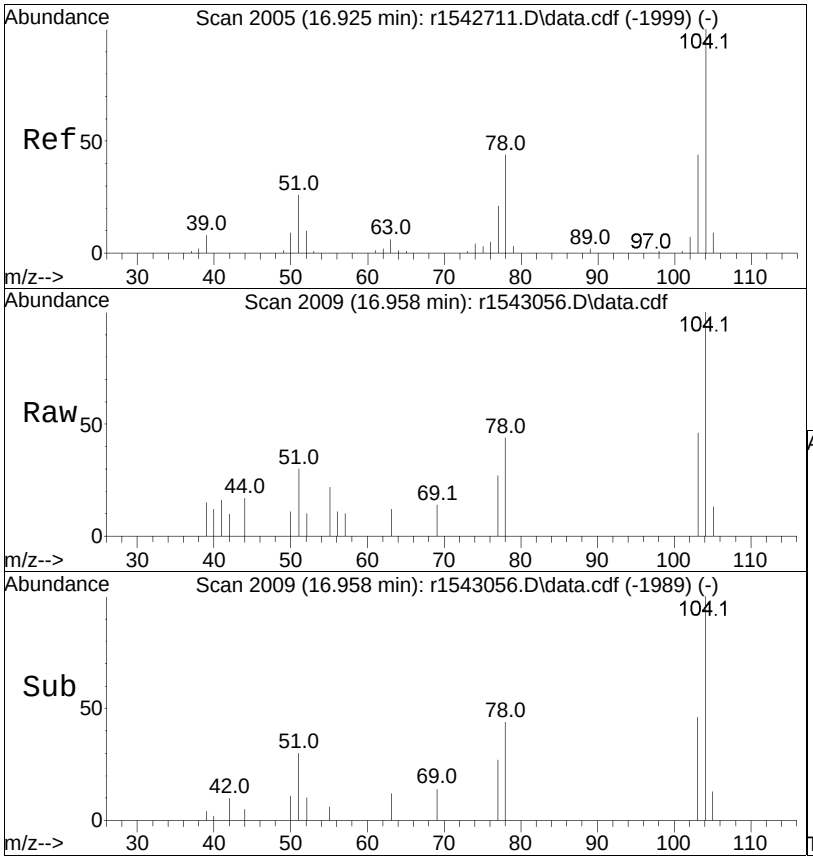


#83
m+p-xylene
Concen: 0.17 ppbV
RT: 16.625 min Scan# 1969
Delta R.T. -0.042 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 91 Resp: 11299

Ion	Ratio	Lower	Upper
91	100		
106	45.2	42.7	64.1

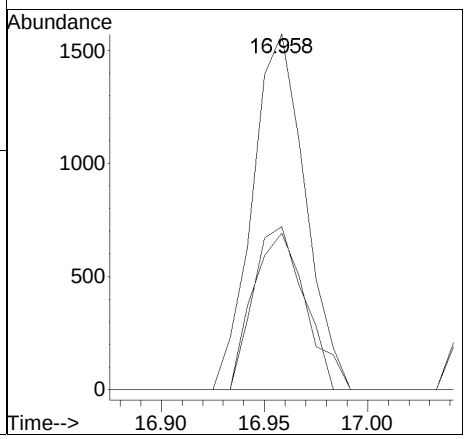


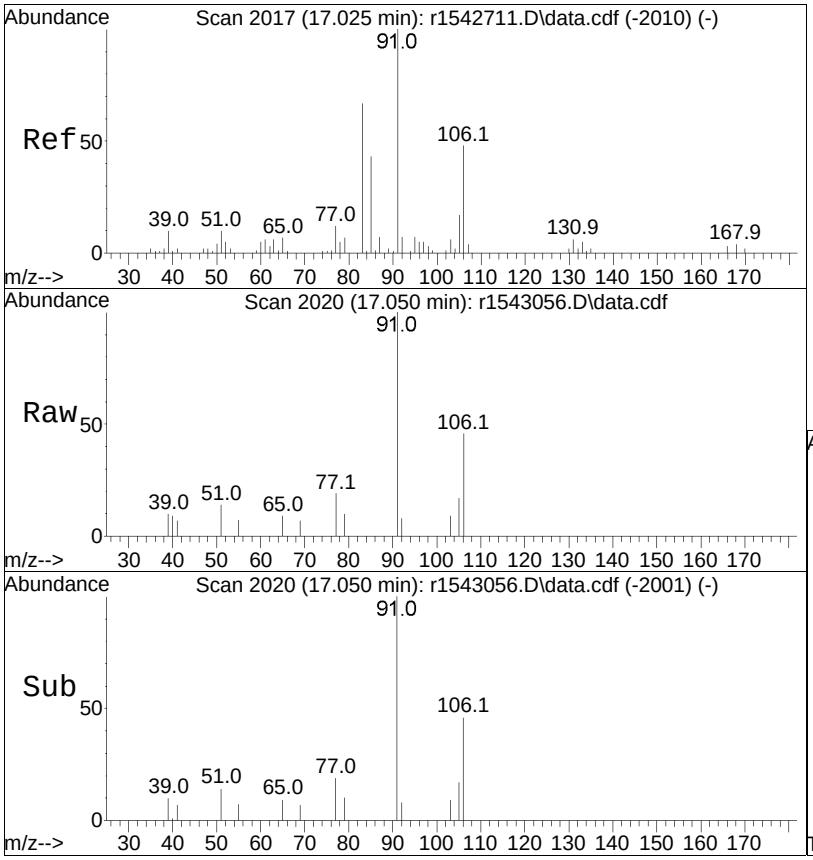


#85
styrene
Concen: 0.05 ppbV
RT: 16.958 min Scan# 2009
Delta R.T. -0.033 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion:104 Resp: 2799

Ion	Ratio	Lower	Upper
104	100		
103	45.8	34.9	52.3
78	44.0	36.2	54.4

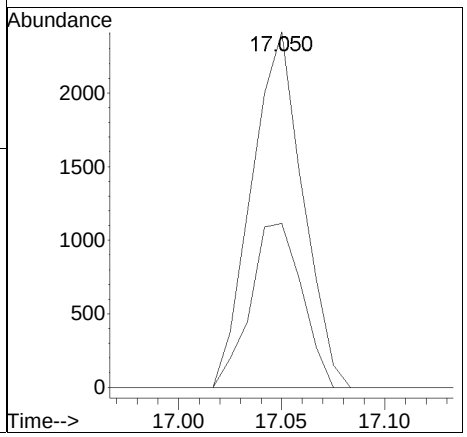


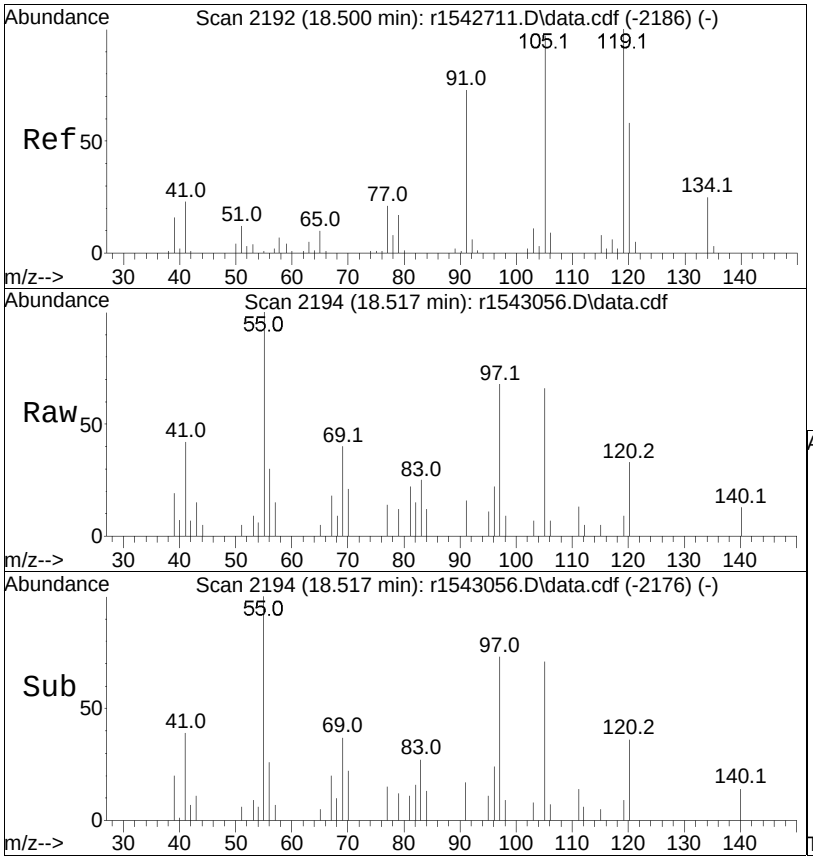


#87
o-xylene
Concen: 0.06 ppbV
RT: 17.050 min Scan# 2020
Delta R.T. -0.042 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion: 91 Resp: 4174

Ion	Ratio	Lower	Upper
91	100		
106	46.1	40.0	60.0

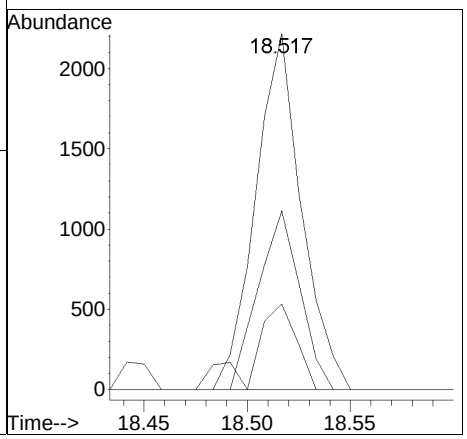




#99
1,2,4-trimethylbenzene
Concen: 0.05 ppbV
RT: 18.517 min Scan# 2194
Delta R.T. -0.050 min
Lab File: r1543056.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion:105 Resp: 3441

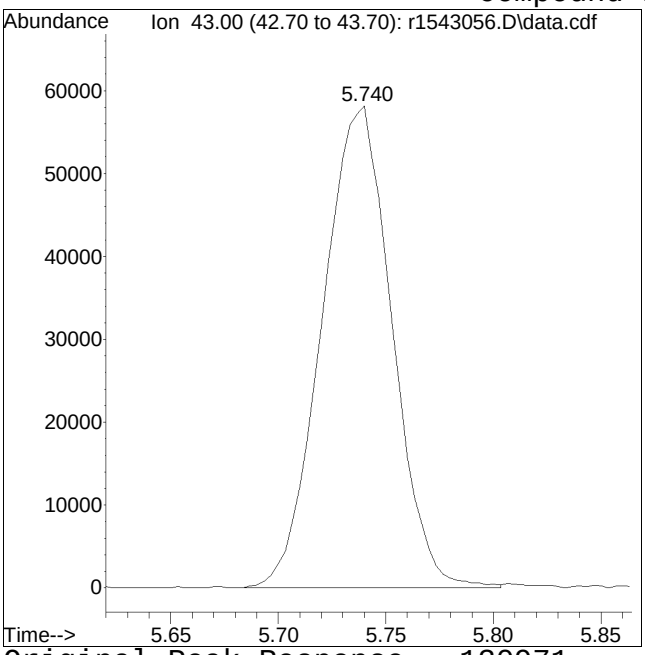
Ion	Ratio	Lower	Upper
105	100		
120	50.2	51.8	77.6#
91	24.0	58.3	87.5#



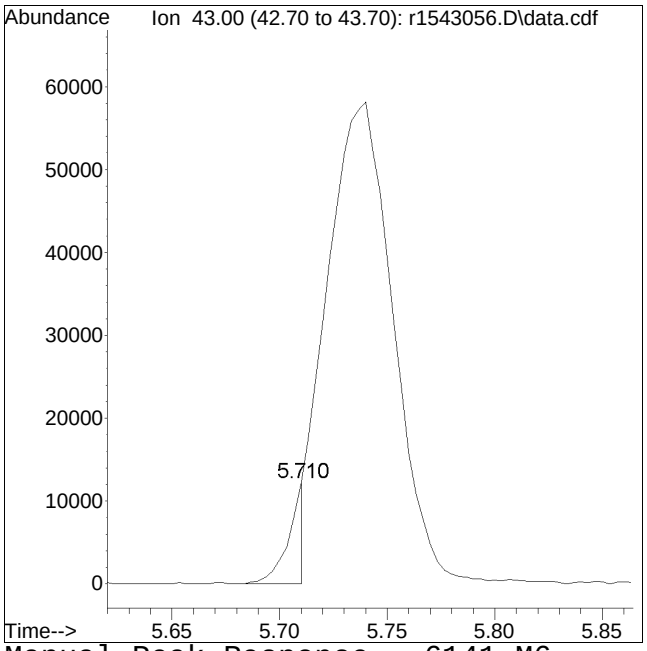
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543056.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:8: 8 Instrument :
Sample : L2409206-02,3,250,250 Quant Date : 2/27/2024 7:20 am

Compound #19: acetone



Original Peak Response = 130971



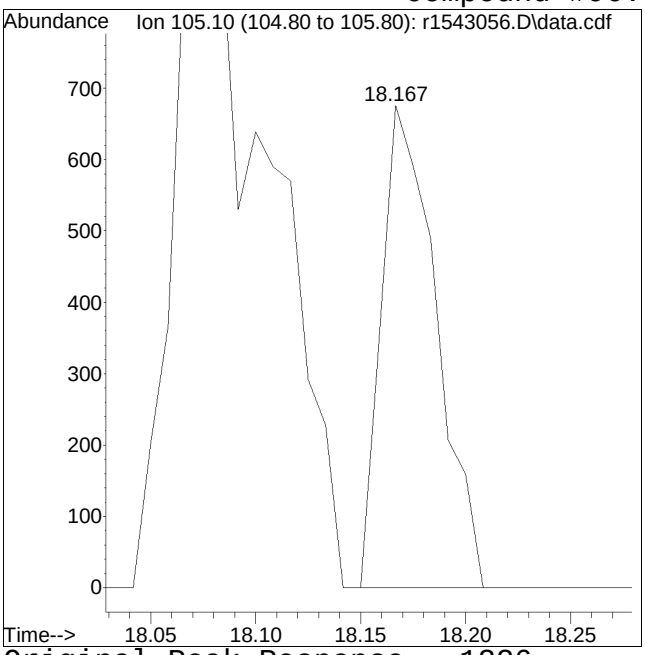
Manual Peak Response = 6141 M6

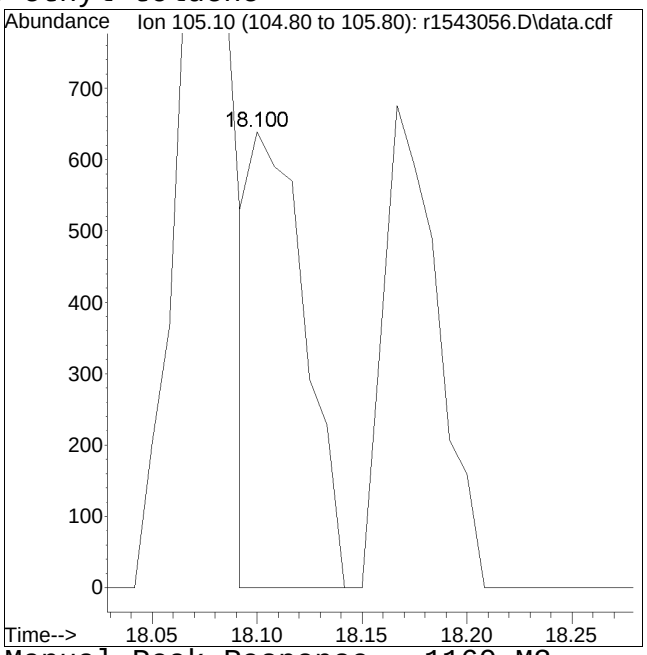
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543056.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:8: 8 Instrument :
Sample : L2409206-02,3,250,250 Quant Date : 2/27/2024 7:20 am

Compound #96: 4-ethyl toluene





Original Peak Response = 1226 Manual Peak Response = 1160 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543057.D
Acq On : 26 Feb 2024 9:39 PM
Operator : AIRLAB15:KJD
Sample : L2409206-04,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:21:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.167	49	221058	10.000	ppbV	0.00
Standard Area = 240397			Recovery =		91.96%	
43) 1,4-difluorobenzene	11.393	114	609852	10.000	ppbV	0.00
Standard Area = 687087			Recovery =		88.76%	
67) chlorobenzene-D5	16.075	54	117011	10.000	ppbV	-0.03
Standard Area = 126242			Recovery =		92.69%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	13327	0.529	ppbV	98
6) chloromethane	4.192	50	5634	0.595	ppbV	96
7) Freon-114	4.294		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.	d	
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.206	31	31659	3.807	ppbV	89
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.710	43	7104M6	0.569	ppbV	
21) trichlorofluoromethane	5.893	101	5057	0.269	ppbV	97
22) isopropyl alcohol	6.030	45	4603	0.293	ppbV #	86
27) tertiary butyl alcohol	6.702	59	2785	0.105	ppbV #	68
28) methylene chloride	6.744	49	6663	0.391	ppbV	92
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.062		0	N.D.		
31) Freon 113	7.044	101	1765	0.072	ppbV	93
32) trans-1,2-dichloroethene	7.800	61	3544	0.163	ppbV	94
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.092		0	N.D.		
36) 2-butanone	8.508	43	4819	0.164	ppbV	99
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.317		0	N.D.		
40) Tetrahydrofuran	9.800	42	1978	0.108	ppbV #	83
42) 1,2-dichloroethane	10.150		0	N.D.		
44) hexane	9.233	57	3336	0.125	ppbV #	21
50) benzene	10.973	78	7862	0.159	ppbV	93
53) cyclohexane	11.293	56	1052	0.036	ppbV #	78
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543057.D
Acq On : 26 Feb 2024 9:39 PM
Operator : AIRLAB15:KJD
Sample : L2409206-04,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:21:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

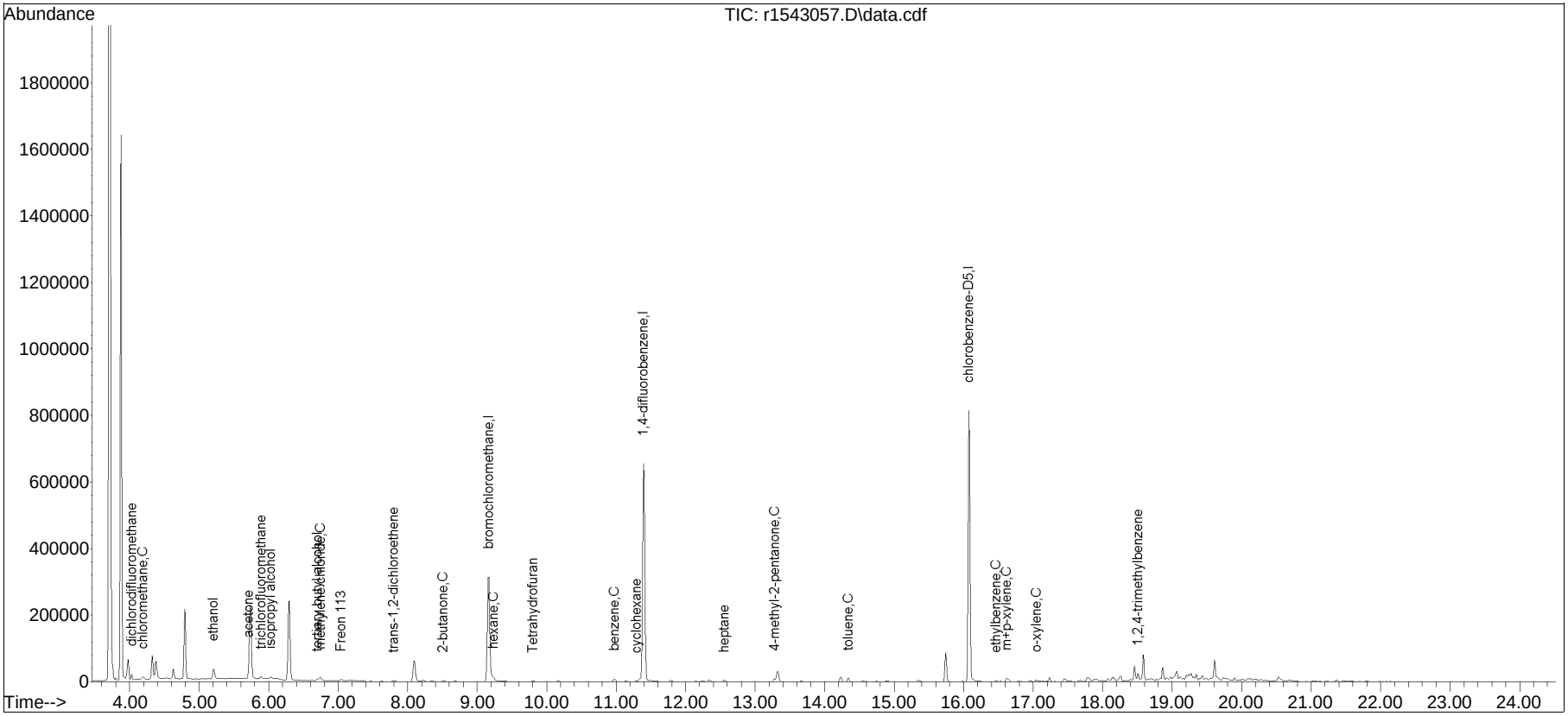
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.253		0	N.D.		
62) heptane	12.553	43	2111	0.072	ppbV #	84
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.283	43	8303	0.250	ppbV #	86
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.342	91	9566	0.143	ppbV	100
72) 2-hexanone	0.000		0	N.D.	d	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.	d	
81) ethylbenzene	16.467	91	3626	0.042	ppbV	99
83) m+p-xylene	16.617	91	9462	0.140	ppbV	91
84) bromoform	0.000		0	N.D.		
85) styrene	16.950		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d	
87) o-xylene	17.050	91	3806	0.056	ppbV	91
96) 4-ethyl toluene	18.117		0	N.D.		
97) 1,3,5-trimethylbenzene	18.167		0	N.D.		
99) 1,2,4-trimethylbenzene	18.508	105	2703	0.036	ppbV #	57
101) Benzyl Chloride	0.000		0	N.D.	d	
102) 1,3-dichlorobenzene	0.000		0	N.D.	d	
103) 1,4-dichlorobenzene	18.708		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.		

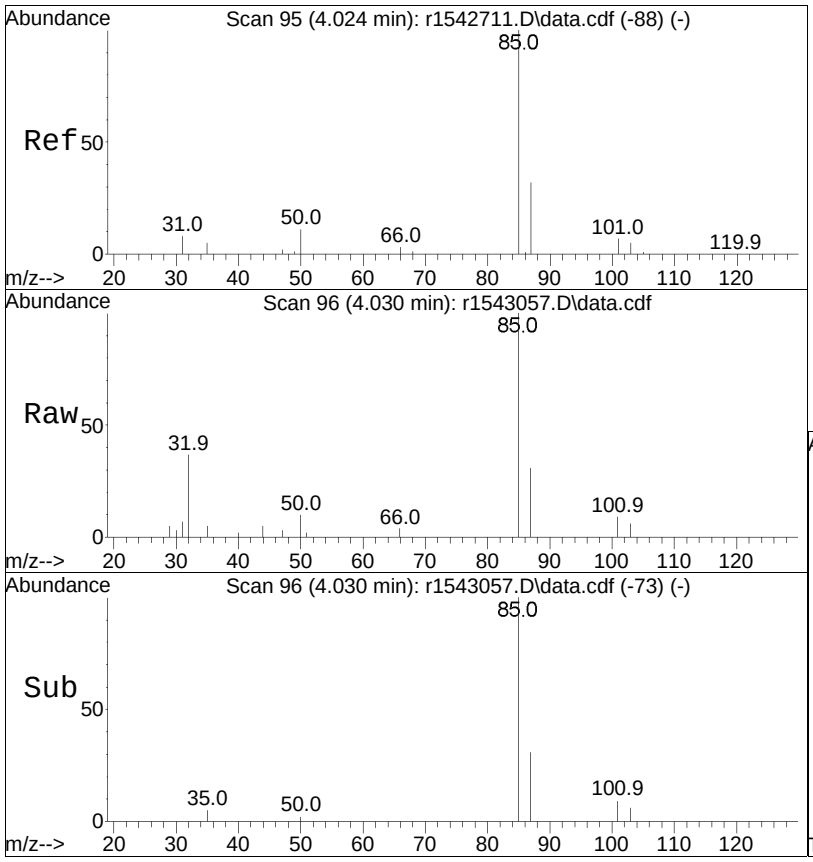
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab15\2024\02\0226T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543057.D
Acq On : 26 Feb 2024 9:39 PM
Operator : AIRLAB15:KJD
Sample : L2409206-04,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:21:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

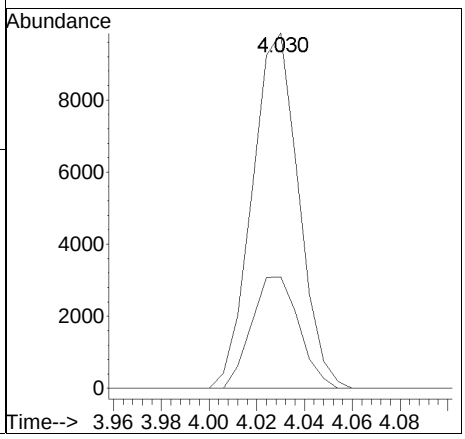


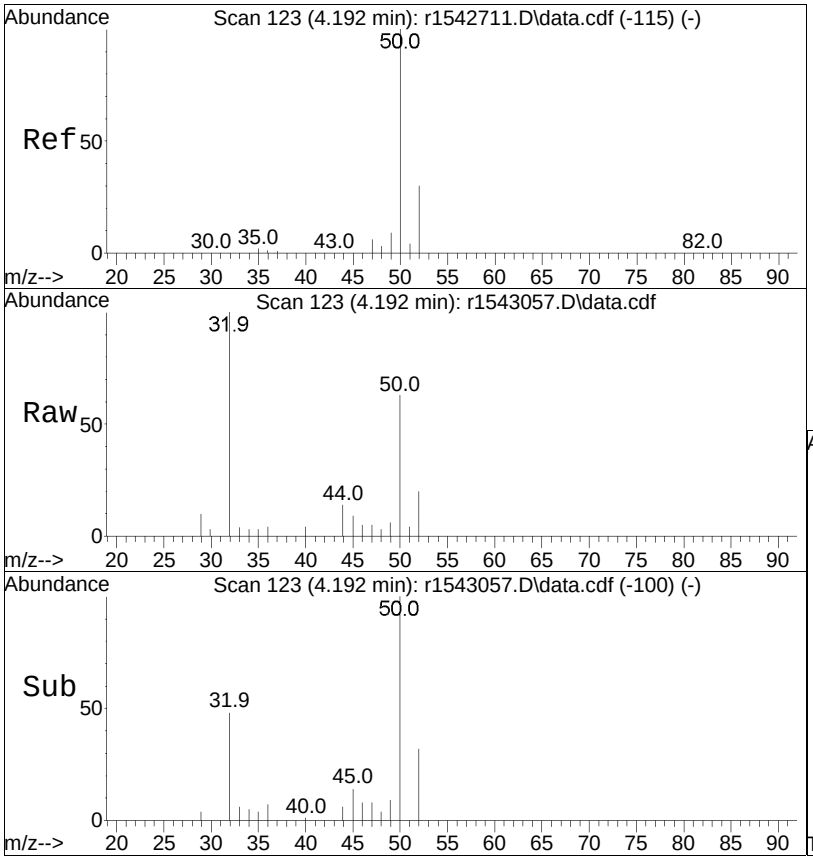


#5
dichlorodifluoromethane
Concen: 0.53 ppbV
RT: 4.030 min Scan# 96
Delta R.T. -0.064 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 85 Resp: 13327

Ion	Ratio	Lower	Upper
85	100		
87	31.4	26.1	39.1

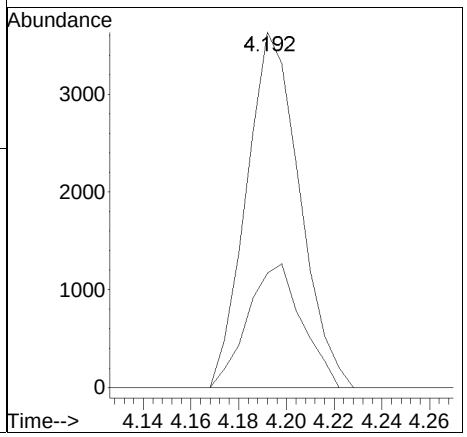


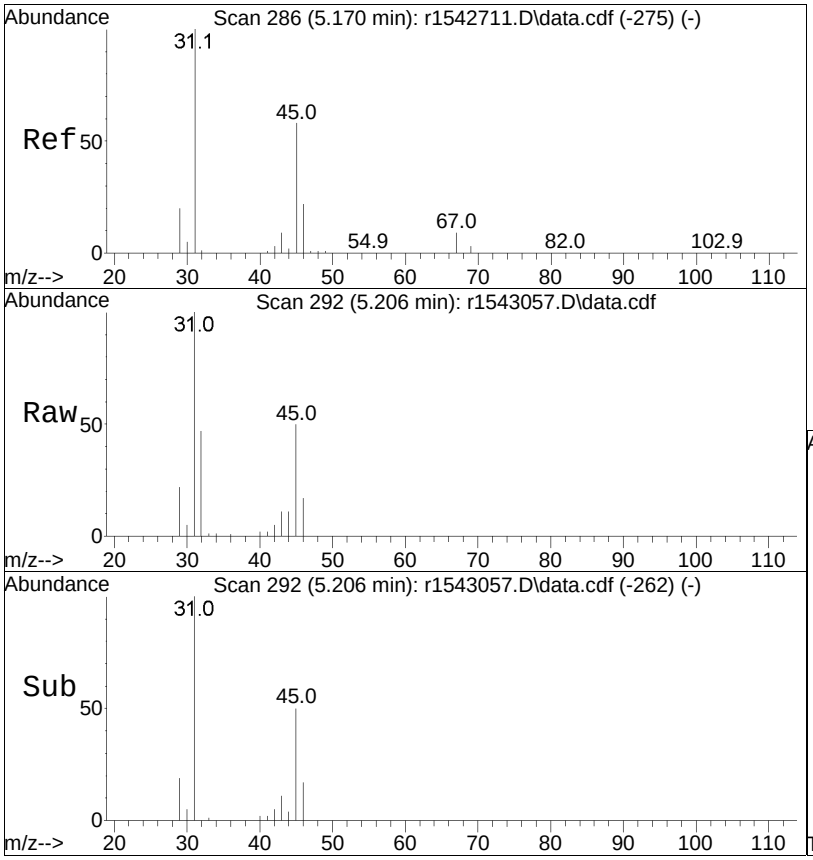


#6
chloromethane
Concen: 0.60 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.064 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 50 Resp: 5634

Ion	Ratio	Lower	Upper
50	100		
52	32.1	27.4	41.2

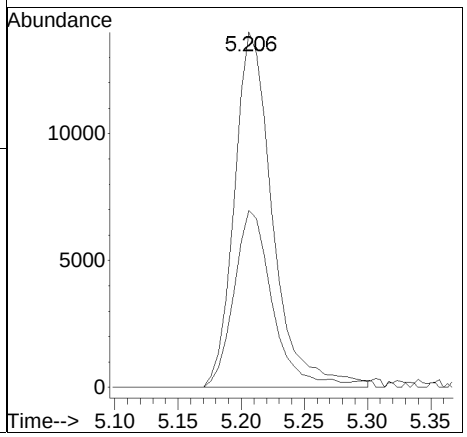


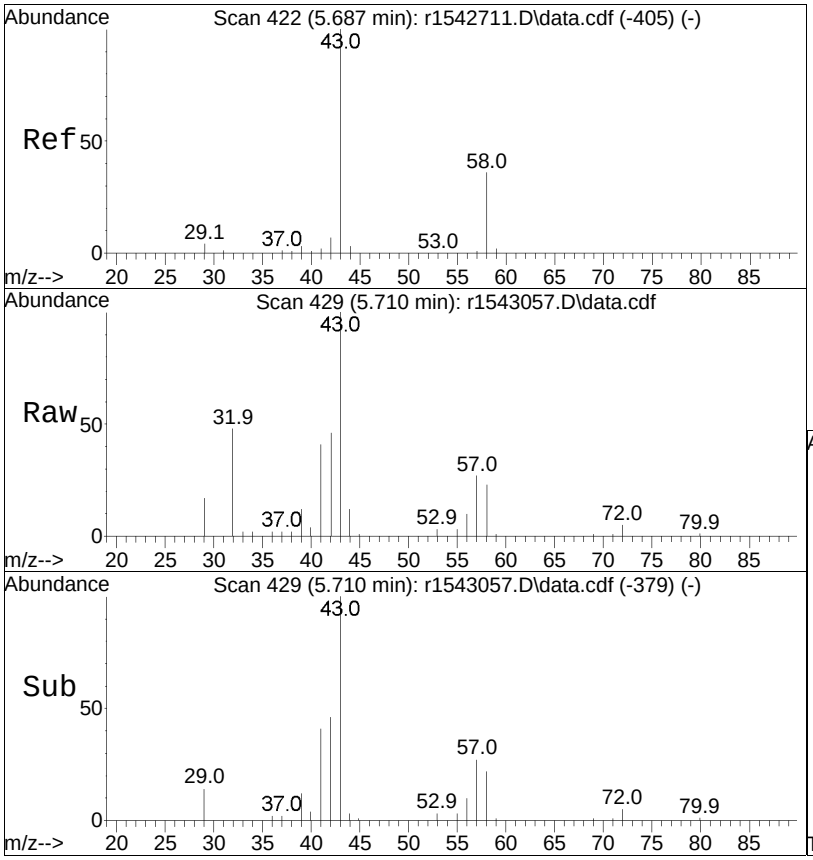


#15
ethanol
Concen: 3.81 ppbV
RT: 5.206 min Scan# 292
Delta R.T. -0.022 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 31 Resp: 31659

Ion	Ratio	Lower	Upper
31	100		
45	49.9	34.2	51.2

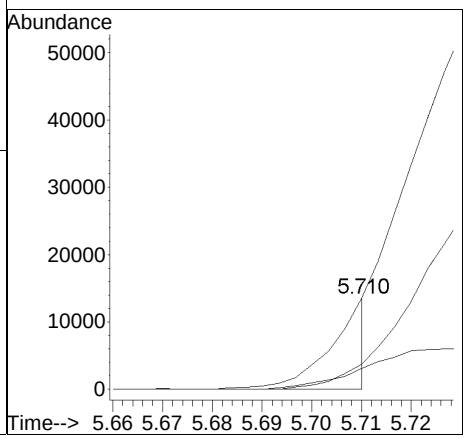


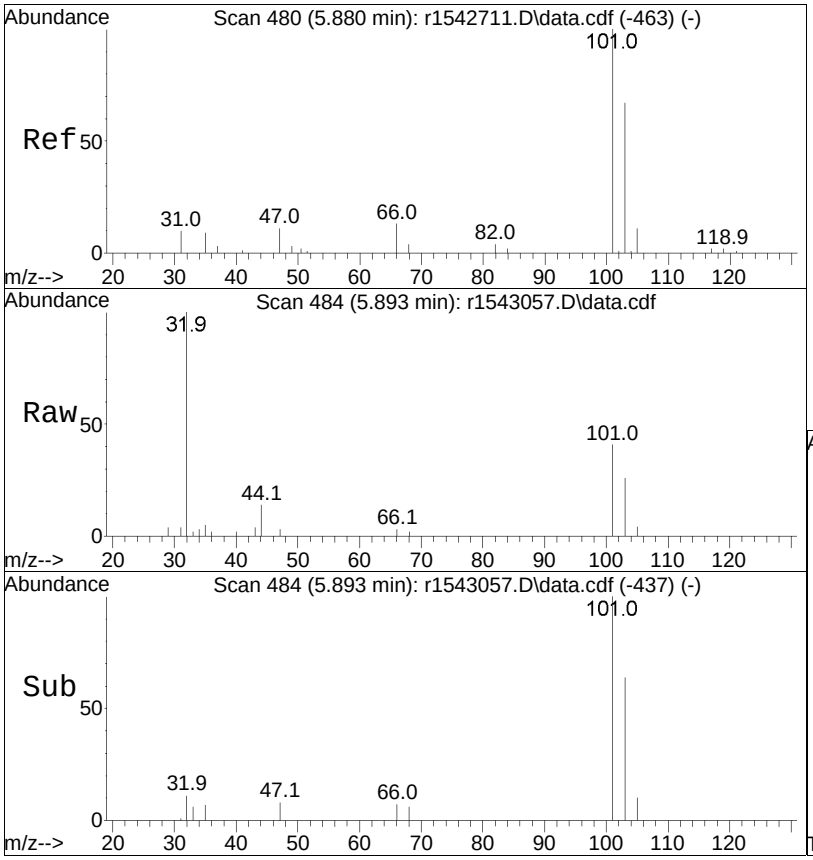


#19
acetone
Concen: 0.57 ppbV m
RT: 5.710 min Scan# 429
Delta R.T. -0.033 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 43 Resp: 7104

Ion	Ratio	Lower	Upper
43	100		
58	23.0	39.0	58.4#
57	27.5	0.9	1.3#

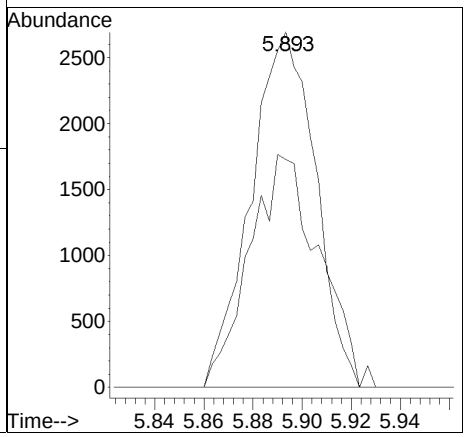


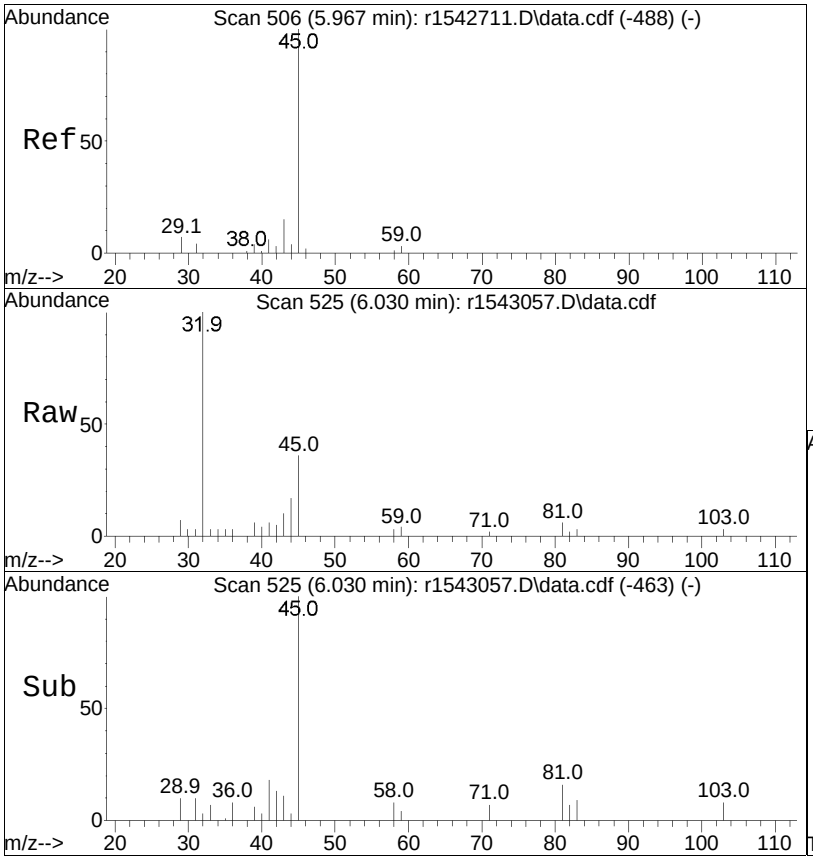


#21
trichlorofluoromethane
Concen: 0.27 ppbV
RT: 5.893 min Scan# 484
Delta R.T. -0.043 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion:101 Resp: 5057

Ion	Ratio	Lower	Upper
101	100		
103	64.1	49.4	74.0

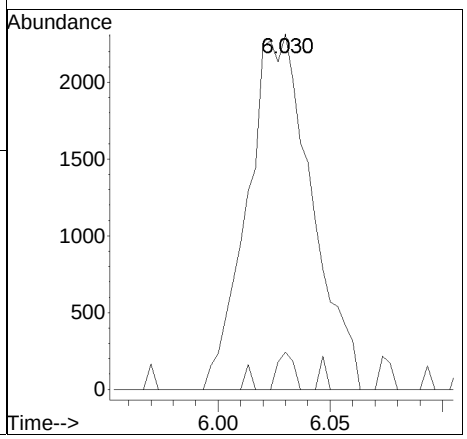


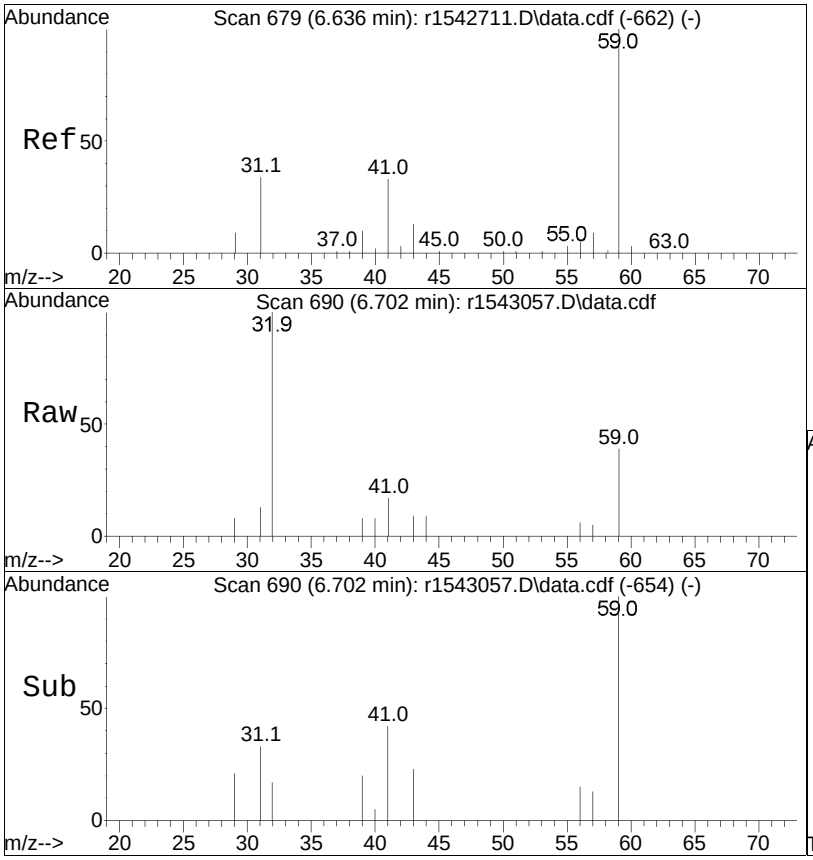


#22
isopropyl alcohol
Concen: 0.29 ppbV
RT: 6.030 min Scan# 525
Delta R.T. 0.007 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 45 Resp: 4603

Ion	Ratio	Lower	Upper
45	100		
59	10.5	4.6	6.8#

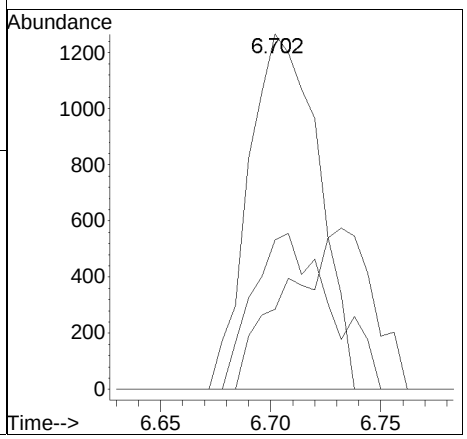


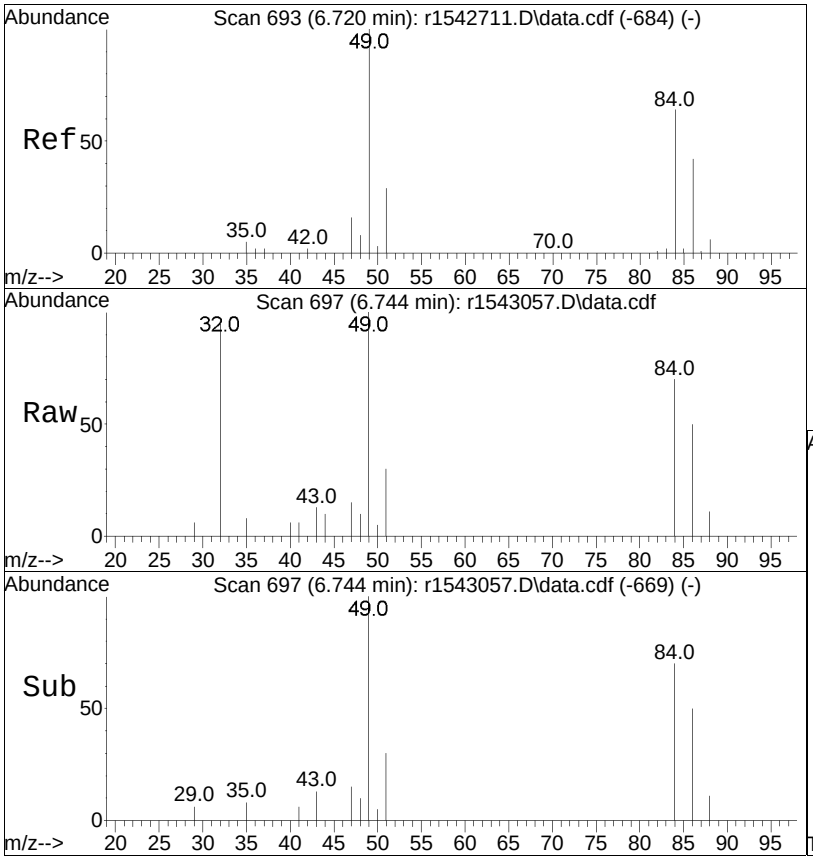


#27
tertiary butyl alcohol
Concen: 0.10 ppbV
RT: 6.702 min Scan# 690
Delta R.T. 0.014 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 59 Resp: 2785

Ion	Ratio	Lower	Upper
59	100		
41	42.1	21.0	31.4#
43	22.6	7.7	11.5#

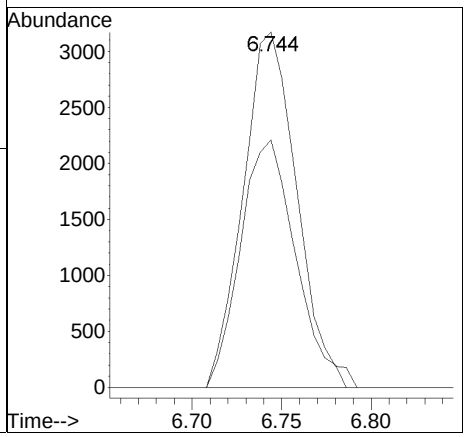


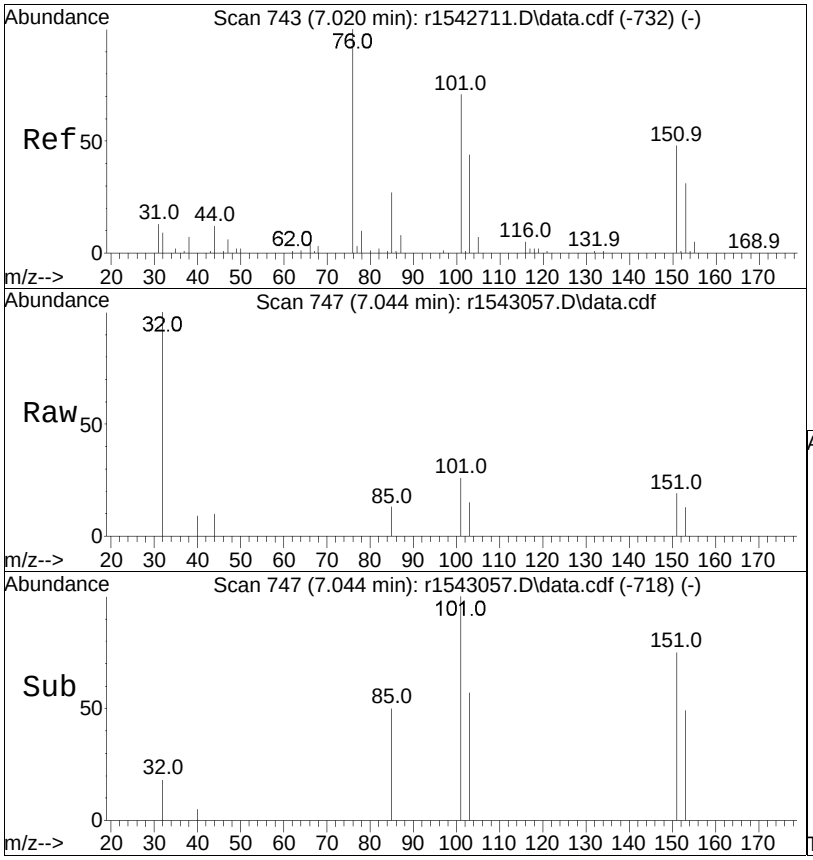


#28
methylene chloride
Concen: 0.39 ppbV
RT: 6.744 min Scan# 697
Delta R.T. -0.034 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 49 Resp: 6663

Ion	Ratio	Lower	Upper
49	100		
84	69.7	61.2	91.8

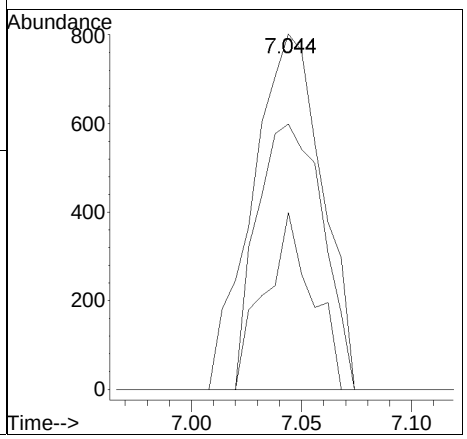


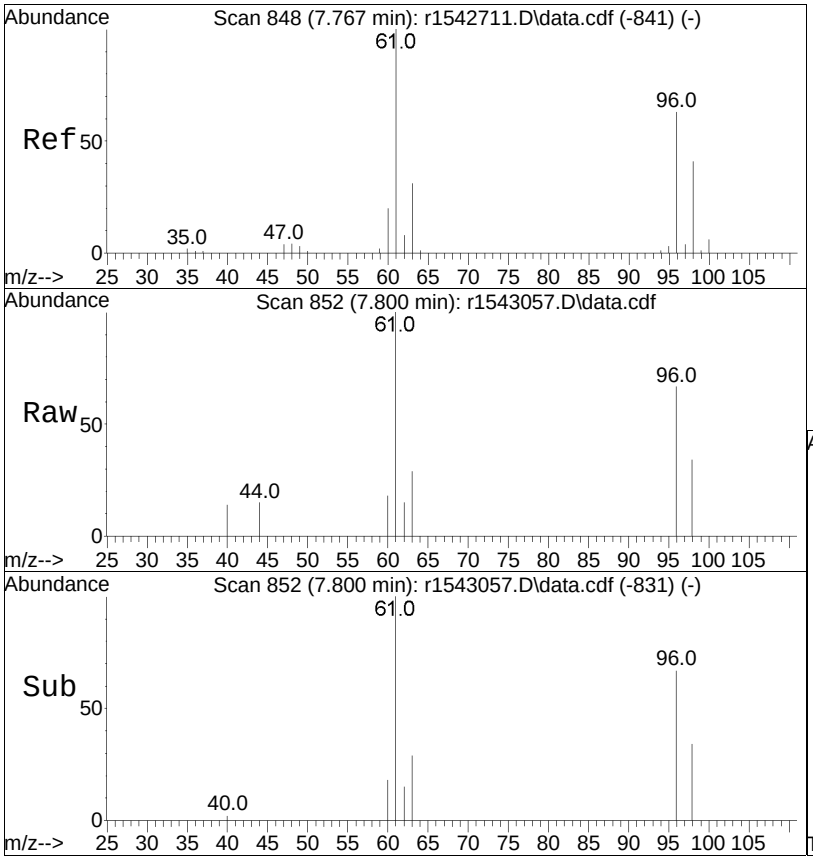


#31
Freon 113
Concen: 0.07 ppbV
RT: 7.044 min Scan# 747
Delta R.T. -0.028 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion:101 Resp: 1765

Ion	Ratio	Lower	Upper
101	100		
85	49.8	35.3	52.9
151	74.7	63.8	95.8

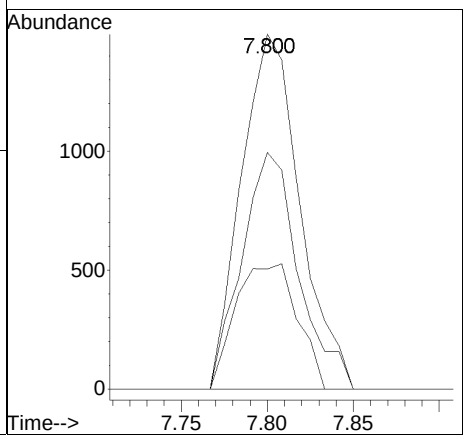


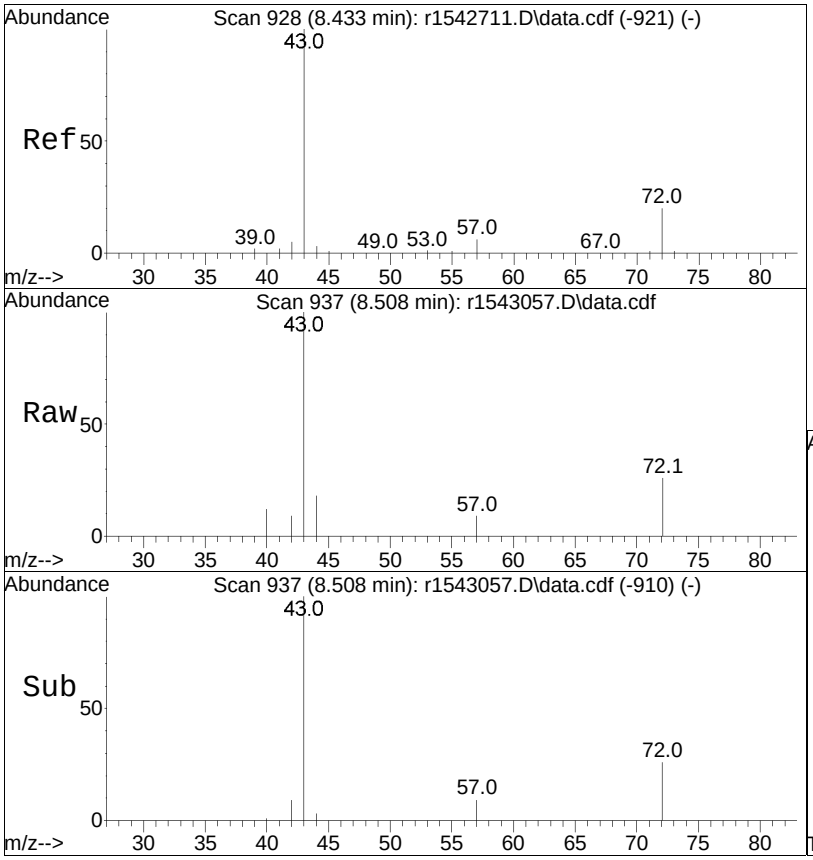


#32
trans-1,2-dichloroethene
Concen: 0.16 ppbV
RT: 7.800 min Scan# 852
Delta R.T. -0.025 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 61 Resp: 3544

Ion	Ratio	Lower	Upper
61	100		
96	66.7	52.2	78.4
98	33.9	33.0	49.4

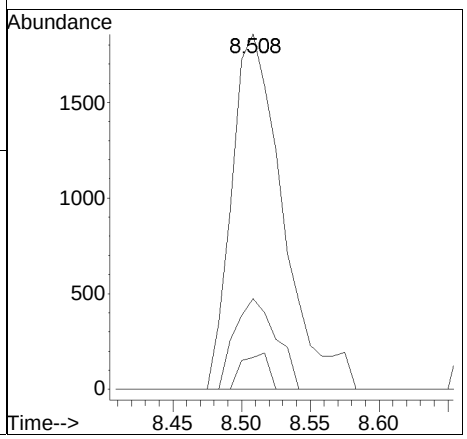


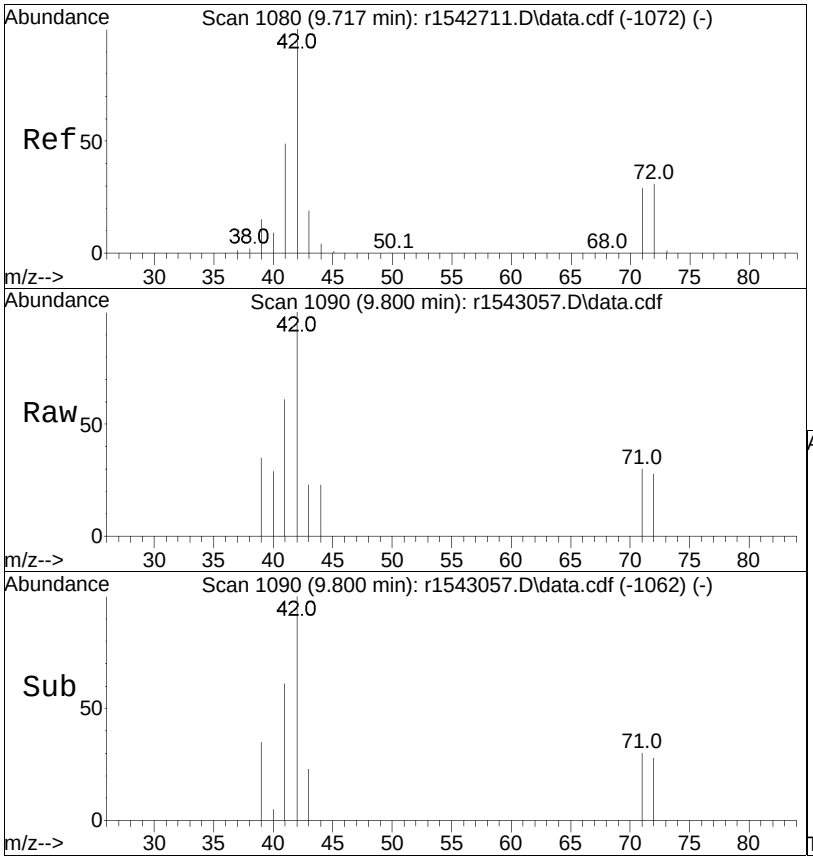


#36
2-butanone
Concen: 0.16 ppbV
RT: 8.508 min Scan# 937
Delta R.T. 0.025 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 43 Resp: 4819

Ion	Ratio	Lower	Upper
43	100		
72	25.5	21.0	31.4
57	9.0	7.1	10.7

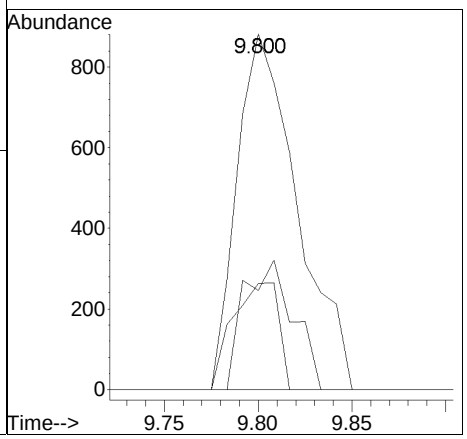


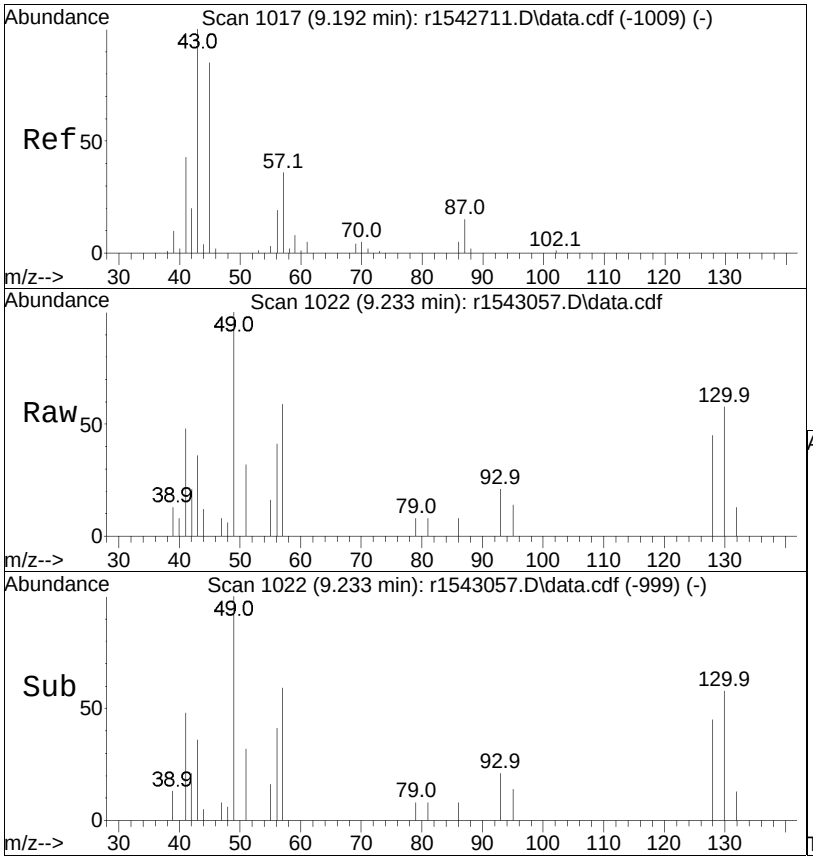


#40
Tetrahydrofuran
Concen: 0.11 ppbV
RT: 9.800 min Scan# 1090
Delta R.T. 0.033 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 42 Resp: 1978

Ion	Ratio	Lower	Upper
42	100		
71	29.8	30.6	46.0#
72	27.9	32.5	48.7#

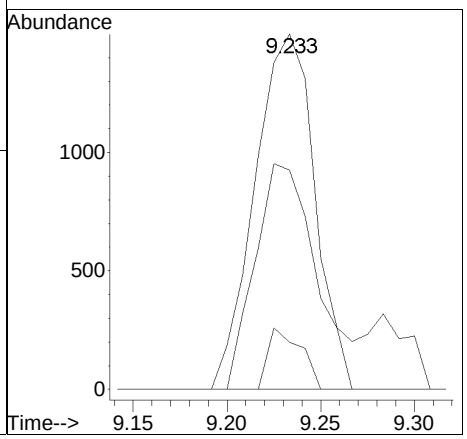


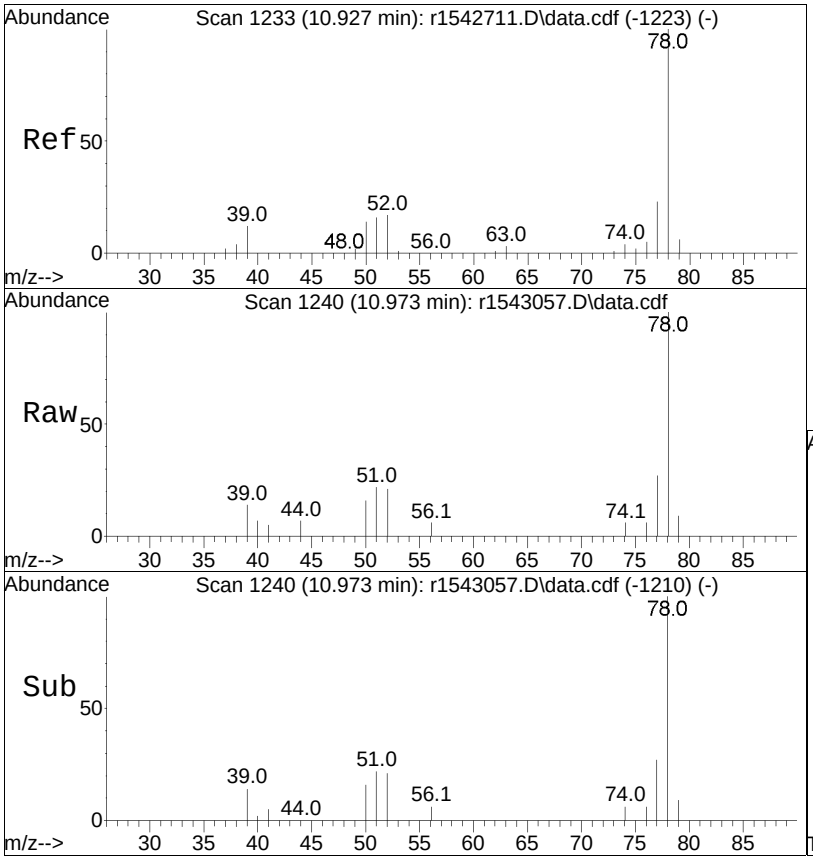


#44
hexane
Concen: 0.13 ppbV
RT: 9.233 min Scan# 1022
Delta R.T. -0.008 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 57 Resp: 3336

Ion	Ratio	Lower	Upper
57	100		
43	61.7	146.8	220.2#
86	13.3	12.7	19.1

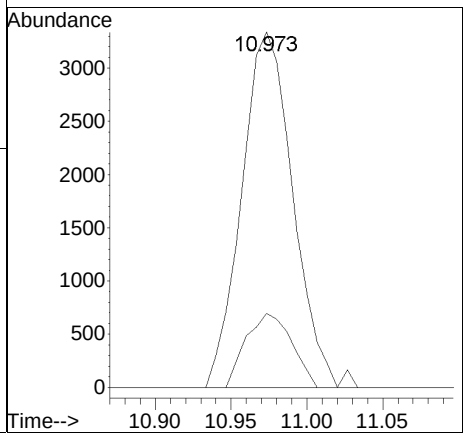


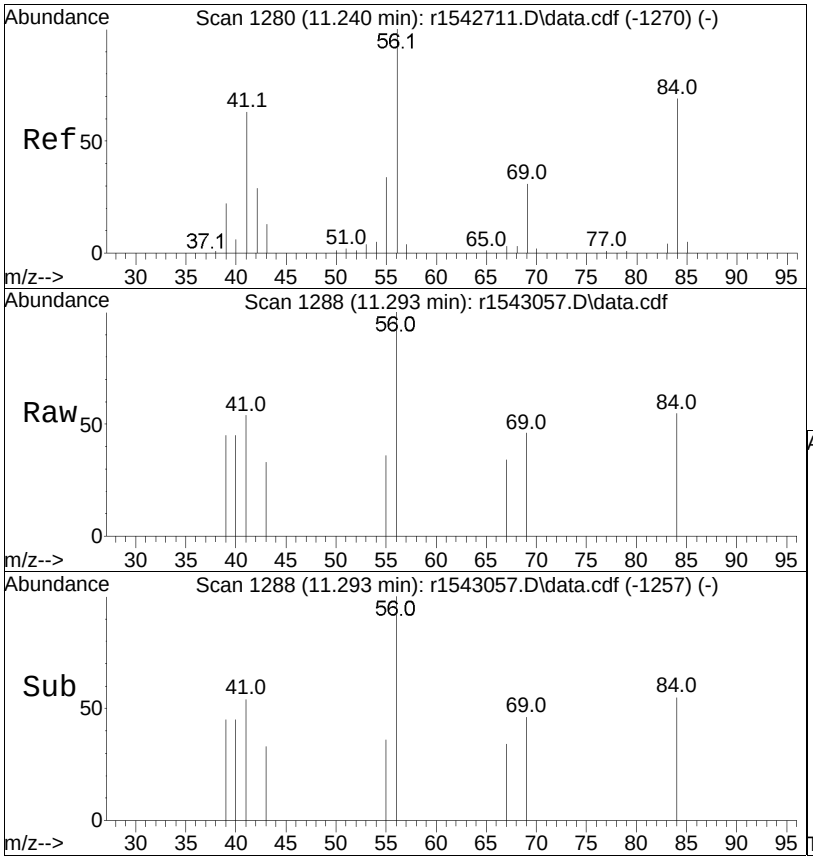


#50
benzene
Concen: 0.16 ppbV
RT: 10.973 min Scan# 1240
Delta R.T. 0.000 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 78 Resp: 7862

Ion	Ratio	Lower	Upper
78	100		
52	20.8	14.1	21.1

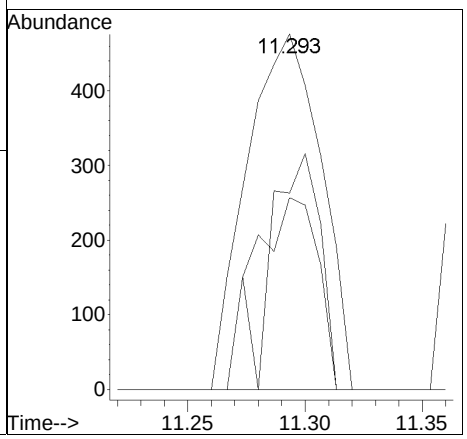


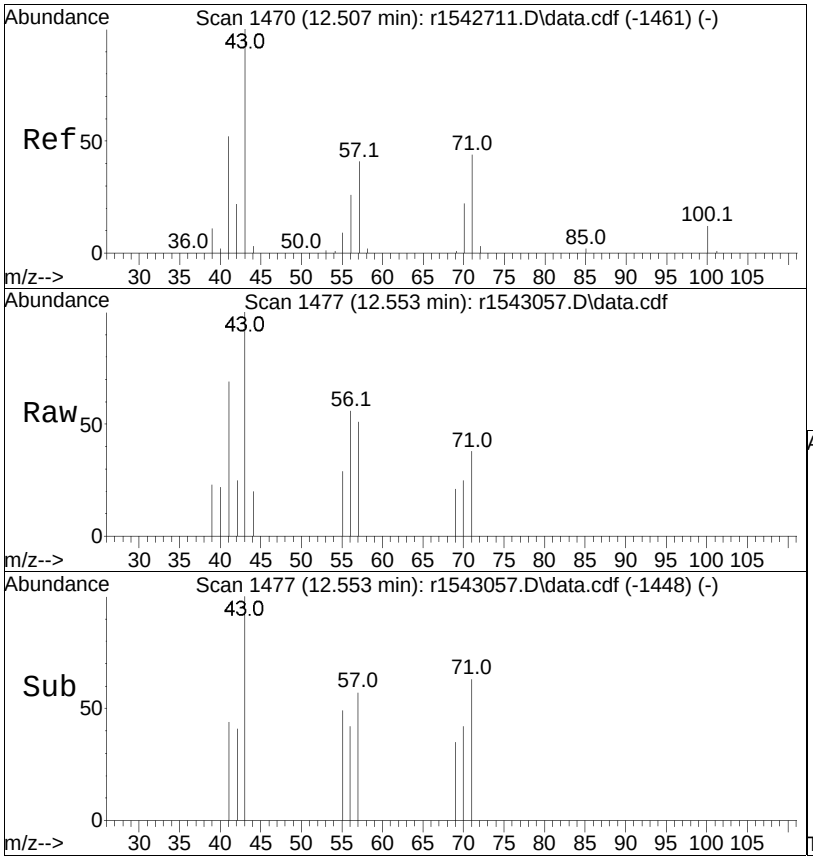


#53
cyclohexane
Concen: 0.04 ppbV
RT: 11.293 min Scan# 1288
Delta R.T. 0.007 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 56 Resp: 1052

Ion	Ratio	Lower	Upper
56	100		
84	55.3	60.2	90.2#
41	54.0	33.5	50.3#

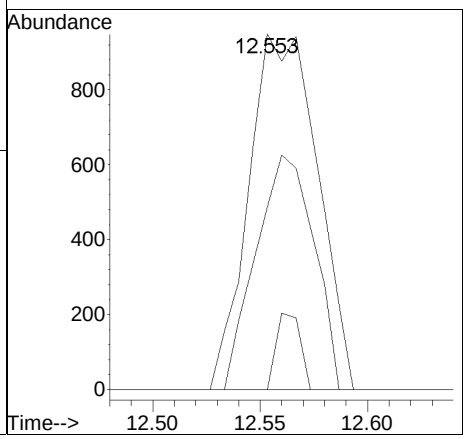


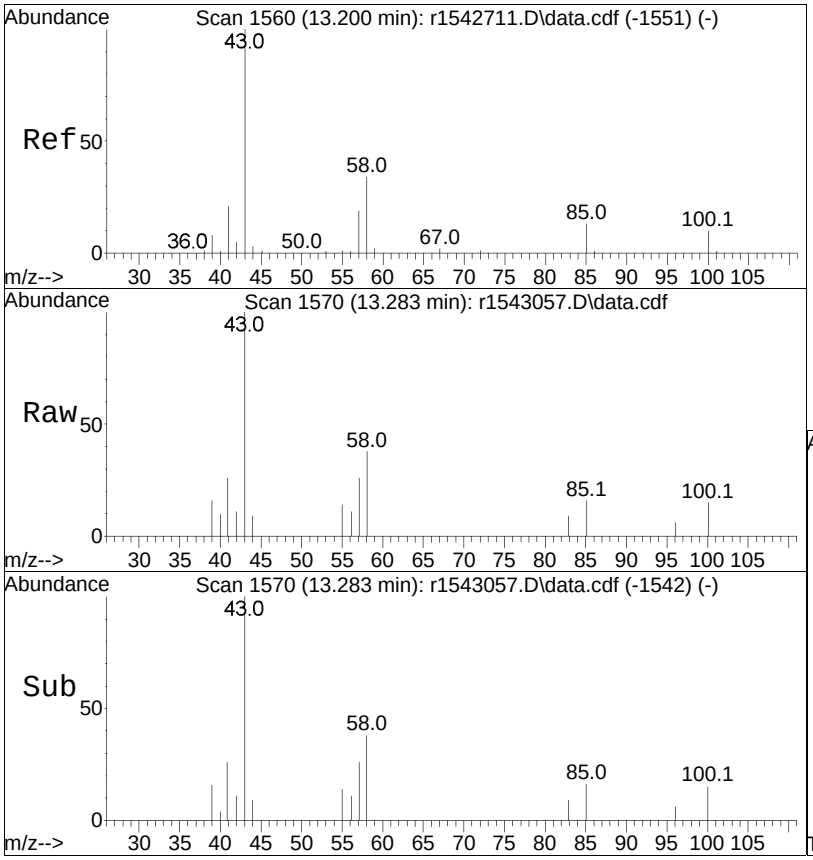


#62
heptane
Concen: 0.07 ppbV
RT: 12.553 min Scan# 1477
Delta R.T. -0.007 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 43 Resp: 2111

Ion	Ratio	Lower	Upper
43	100		
57	51.4	46.6	70.0
100	0.0	13.3	19.9#

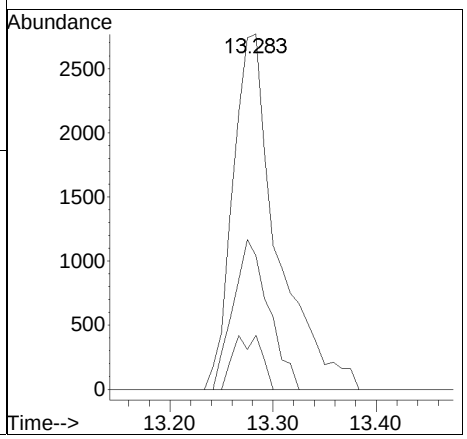


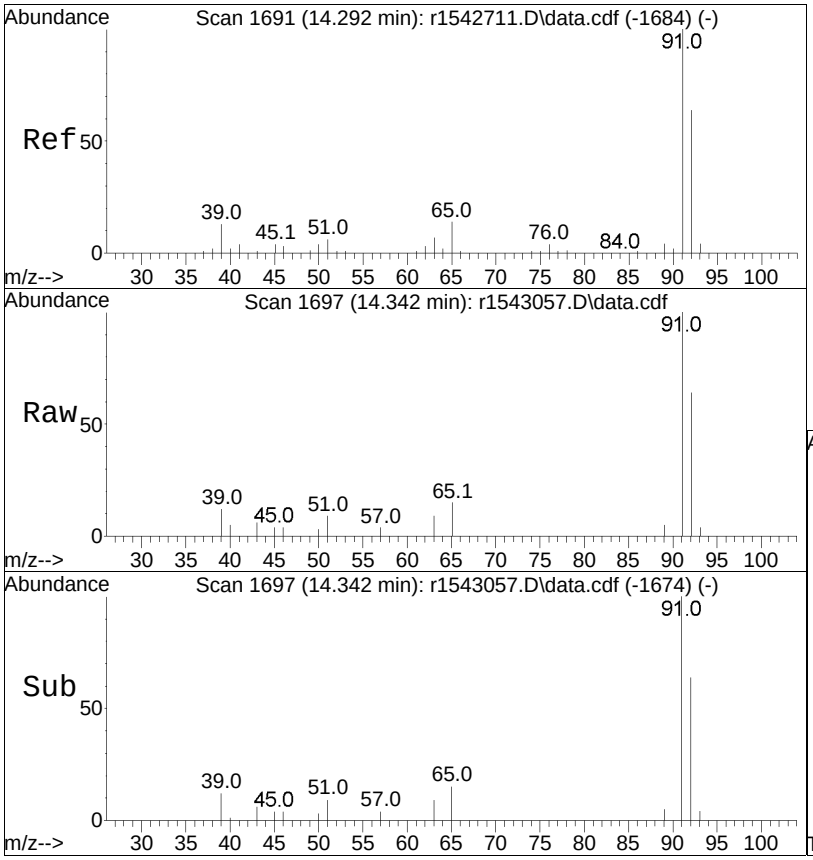


#64
4-methyl-2-pentanone
Concen: 0.25 ppbV
RT: 13.283 min Scan# 1570
Delta R.T. 0.033 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 43 Resp: 8303

Ion	Ratio	Lower	Upper
43	100		
58	37.6	39.5	59.3#
100	15.2	11.8	17.6

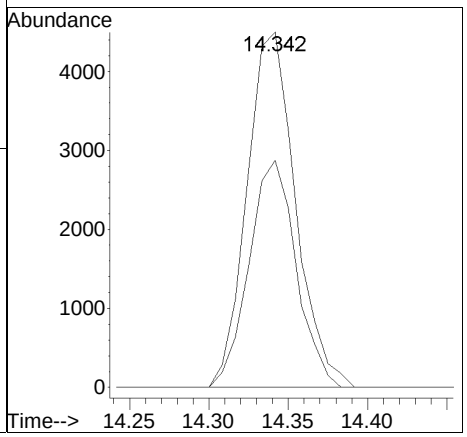


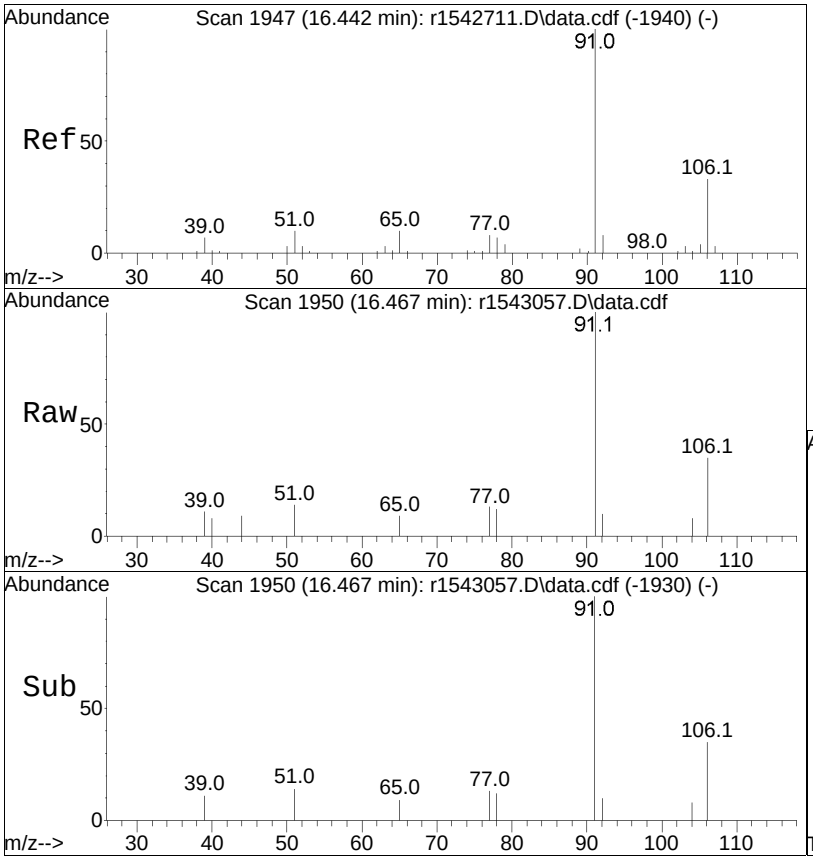


#68
toluene
Concen: 0.14 ppbV
RT: 14.342 min Scan# 1697
Delta R.T. -0.008 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 91 Resp: 9566

Ion	Ratio	Lower	Upper
91	100		
92	63.9	51.0	76.4

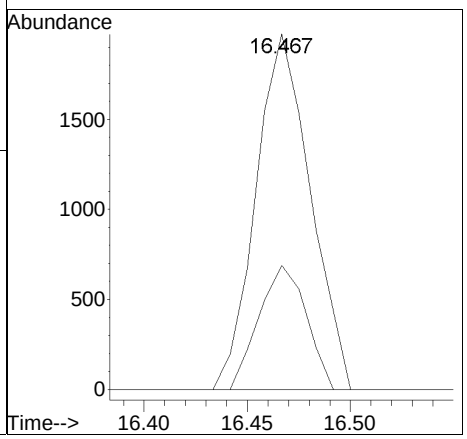


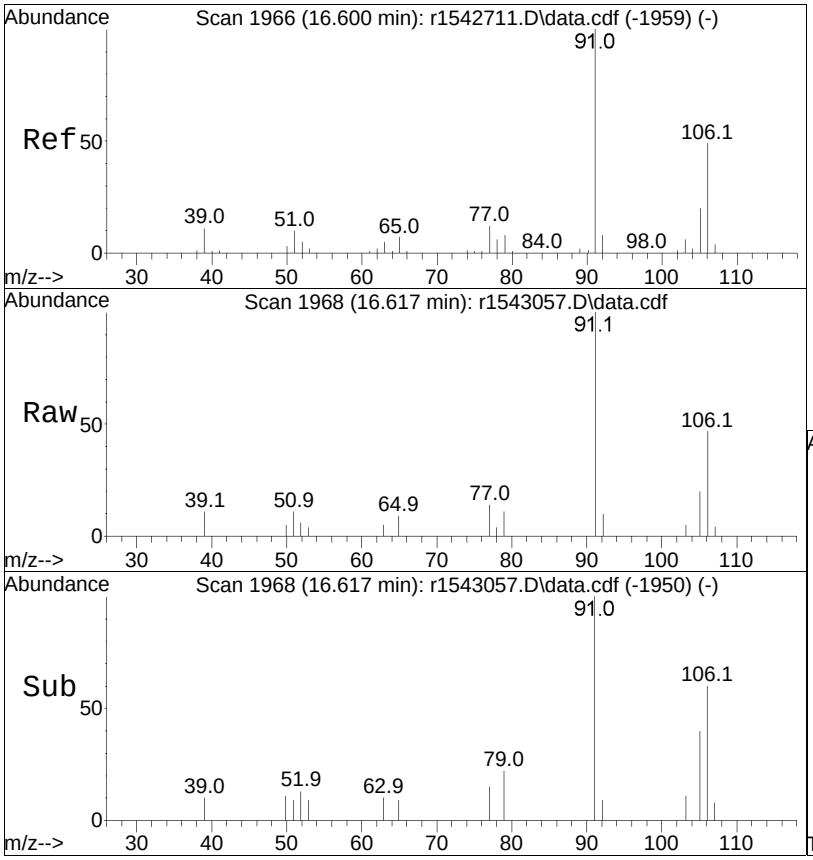


#81
ethylbenzene
Concen: 0.04 ppbV
RT: 16.467 min Scan# 1950
Delta R.T. -0.033 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 91 Resp: 3626

Ion	Ratio	Lower	Upper
91	100		
106	34.9	27.7	41.5

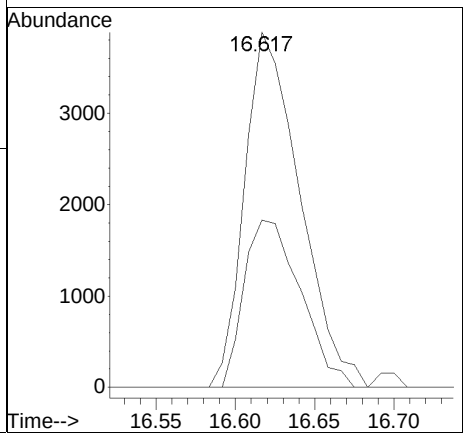


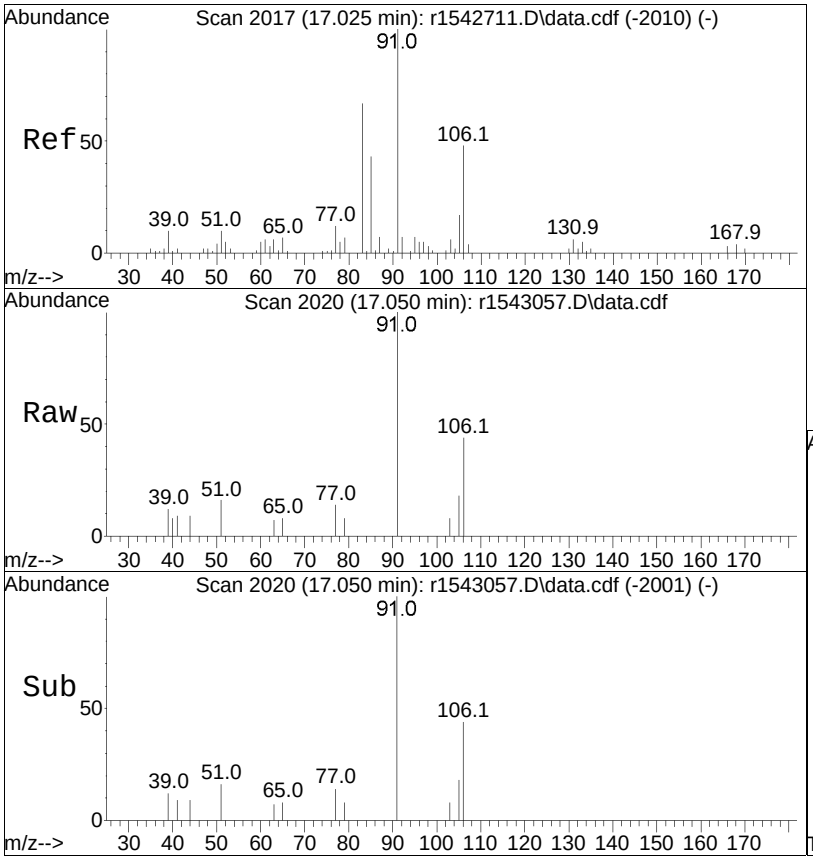


#83
m+p-xylene
Concen: 0.14 ppbV
RT: 16.617 min Scan# 1968
Delta R.T. -0.050 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 91 Resp: 9462

Ion	Ratio	Lower	Upper
91	100		
106	47.1	42.7	64.1

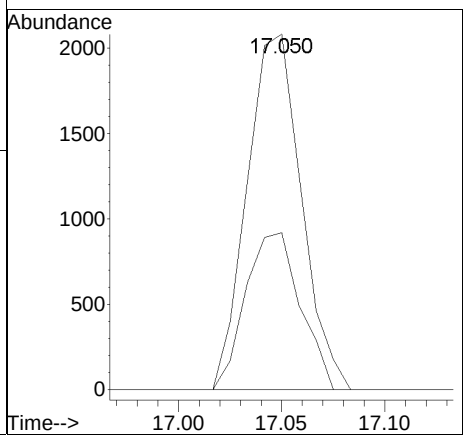


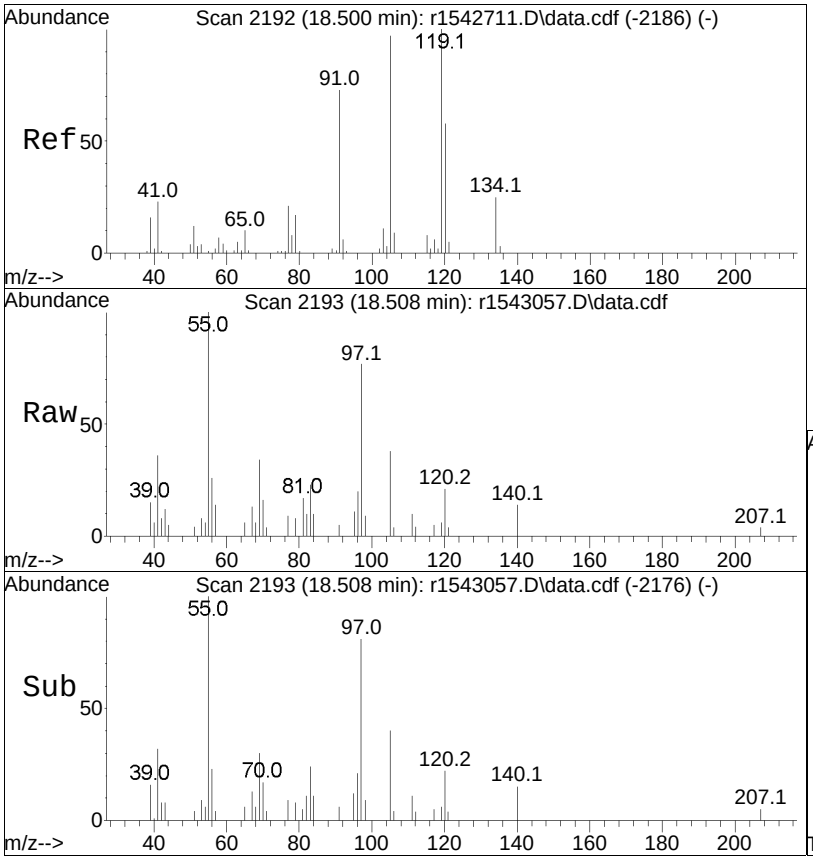


#87
o-xylene
Concen: 0.06 ppbV
RT: 17.050 min Scan# 2020
Delta R.T. -0.042 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion: 91 Resp: 3806

Ion	Ratio	Lower	Upper
91	100		
106	44.1	40.0	60.0

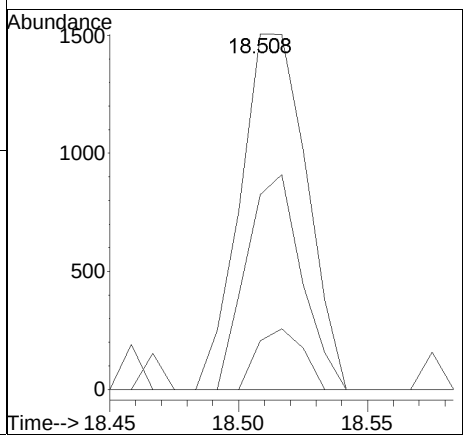




#99
1,2,4-trimethylbenzene
Concen: 0.04 ppbV
RT: 18.508 min Scan# 2193
Delta R.T. -0.058 min
Lab File: r1543057.D
Acq: 26 Feb 2024 9:39 PM

Tgt Ion:105 Resp: 2703

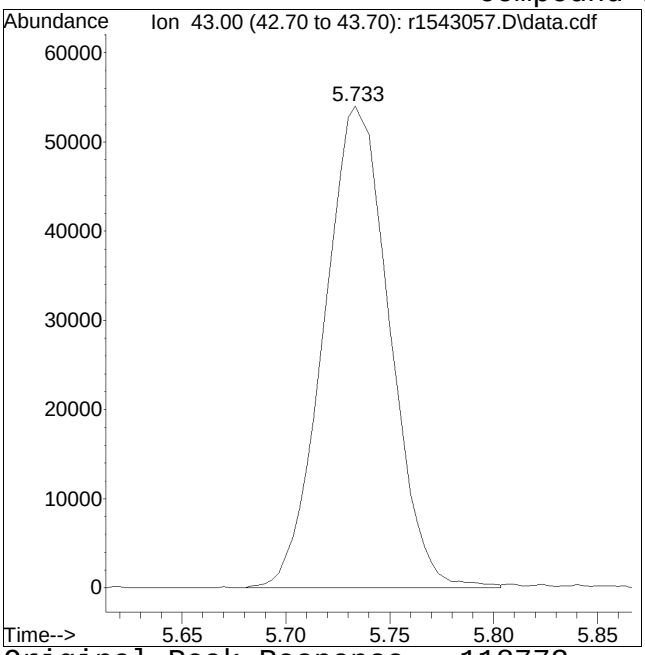
Ion	Ratio	Lower	Upper
105	100		
120	54.8	51.8	77.6
91	13.7	58.3	87.5#



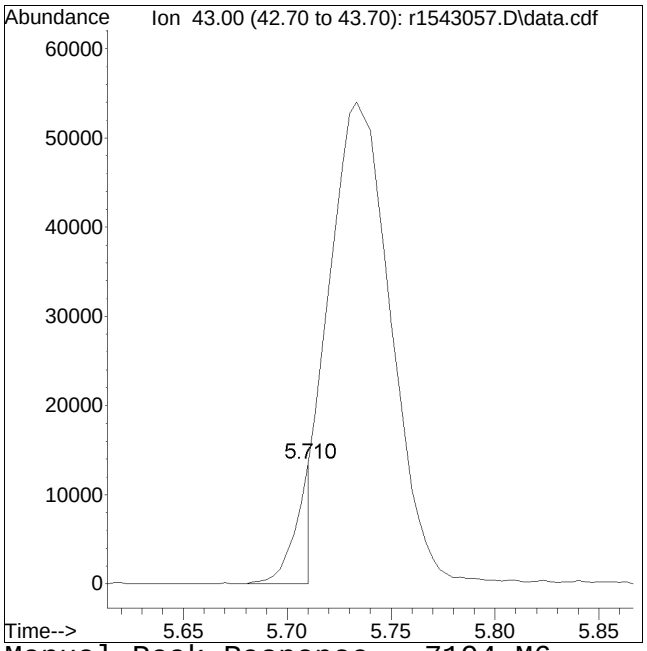
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543057.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:9: 9 Instrument :
Sample : L2409206-04,3,250,250 Quant Date : 2/27/2024 7:21 am

Compound #19: acetone



Original Peak Response = 118773



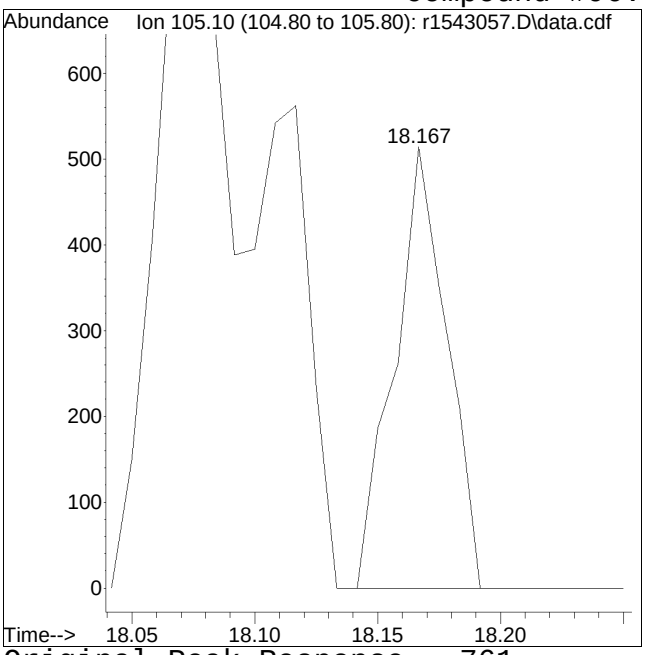
Manual Peak Response = 7104 M6

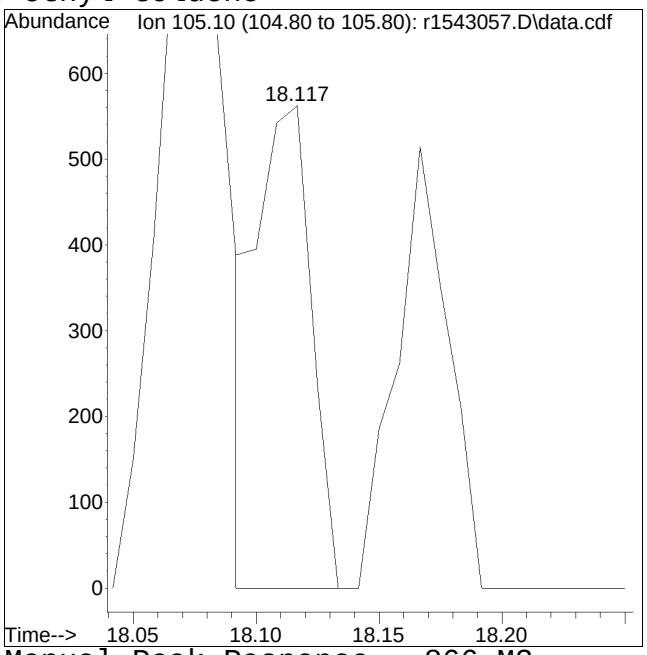
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543057.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:9: 9 Instrument :
Sample : L2409206-04,3,250,250 Quant Date : 2/27/2024 7:21 am

Compound #96: 4-ethyl toluene





Original Peak Response = 761 Manual Peak Response = 866 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543058.D
Acq On : 26 Feb 2024 10:22 PM
Operator : AIRLAB15:KJD
Sample : L2409206-06,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:21:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.158	49	224367	10.000	ppbV	-0.02
Standard Area = 240397			Recovery =		93.33%	
43) 1,4-difluorobenzene	11.393	114	617829	10.000	ppbV	# 0.00
Standard Area = 687087			Recovery =		89.92%	
67) chlorobenzene-D5	16.075	54	118825	10.000	ppbV	-0.03
Standard Area = 126242			Recovery =		94.12%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.024	85	13198	0.517	ppbV	100
6) chloromethane	4.192	50	5595	0.582	ppbV	98
7) Freon-114	4.300		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	4.792		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.200	31	28494	3.375	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.713	43	15445M6	1.220	ppbV	
21) trichlorofluoromethane	5.890	101	4910	0.257	ppbV	99
22) isopropyl alcohol	6.013	45	89813	5.629	ppbV #	95
27) tertiary butyl alcohol	6.714	59	4682	0.173	ppbV #	51
28) methylene chloride	6.744	49	9543	0.552	ppbV	98
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.050		0	N.D.		
31) Freon 113	7.044	101	1743	0.070	ppbV #	79
32) trans-1,2-dichloroethene	7.800	61	846	0.038	ppbV #	64
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.500	43	8338	0.280	ppbV	94
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.308		0	N.D.		
40) Tetrahydrofuran	9.792	42	4243	0.228	ppbV	96
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.233	57	2071	0.077	ppbV #	19
50) benzene	10.973	78	7648	0.153	ppbV	99
53) cyclohexane	11.293		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543058.D
Acq On : 26 Feb 2024 10:22 PM
Operator : AIRLAB15:KJD
Sample : L2409206-06,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:21:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

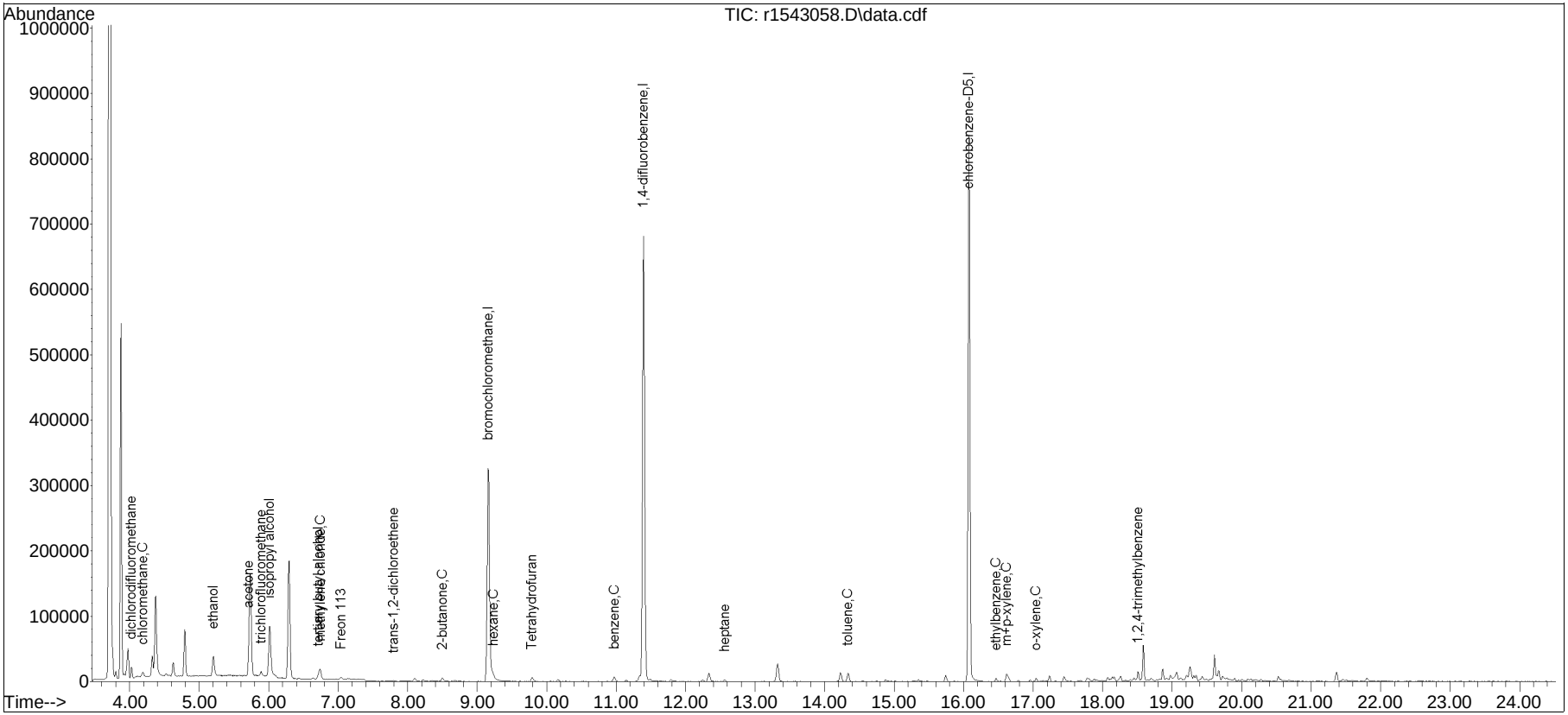
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.			
58)	1,4-dioxane	0.000		0	N.D.			
60)	2,2,4-trimethylpentane	12.247		0	N.D.			
62)	heptane	12.560	43	1174	0.040	ppbV	#	85
63)	cis-1,3-dichloropropene	0.000		0	N.D.			
64)	4-methyl-2-pentanone	0.000		0	N.D.	d		
65)	trans-1,3-dichloropropene	0.000		0	N.D.			
66)	1,1,2-trichloroethane	0.000		0	N.D.			
68)	toluene	14.333	91	11038	0.162	ppbV		96
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	16.467	91	3967	0.045	ppbV		89
83)	m+p-xylene	16.617	91	10485	0.152	ppbV		96
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.958		0	N.D.			
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.			
87)	o-xylene	17.042	91	3890	0.057	ppbV		89
96)	4-ethyl toluene	18.108		0	N.D.			
97)	1,3,5-trimethylbenzene	18.167		0	N.D.			
99)	1,2,4-trimethylbenzene	18.508	105	4073	0.053	ppbV	#	62
101)	Benzyl Chloride	18.692		0	N.D.			
102)	1,3-dichlorobenzene	0.000		0	N.D.	d		
103)	1,4-dichlorobenzene	18.700		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.			

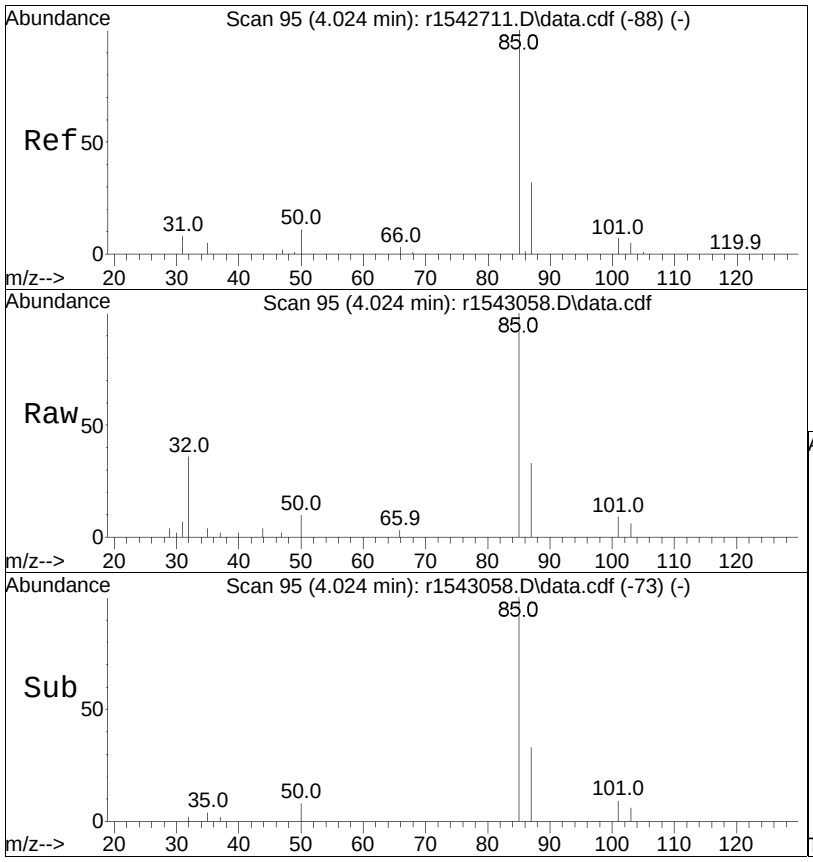
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab15\2024\02\0226T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543058.D
Acq On : 26 Feb 2024 10:22 PM
Operator : AIRLAB15:KJD
Sample : L2409206-06,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:21:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

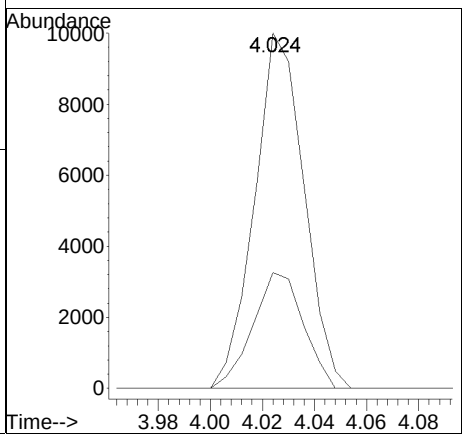


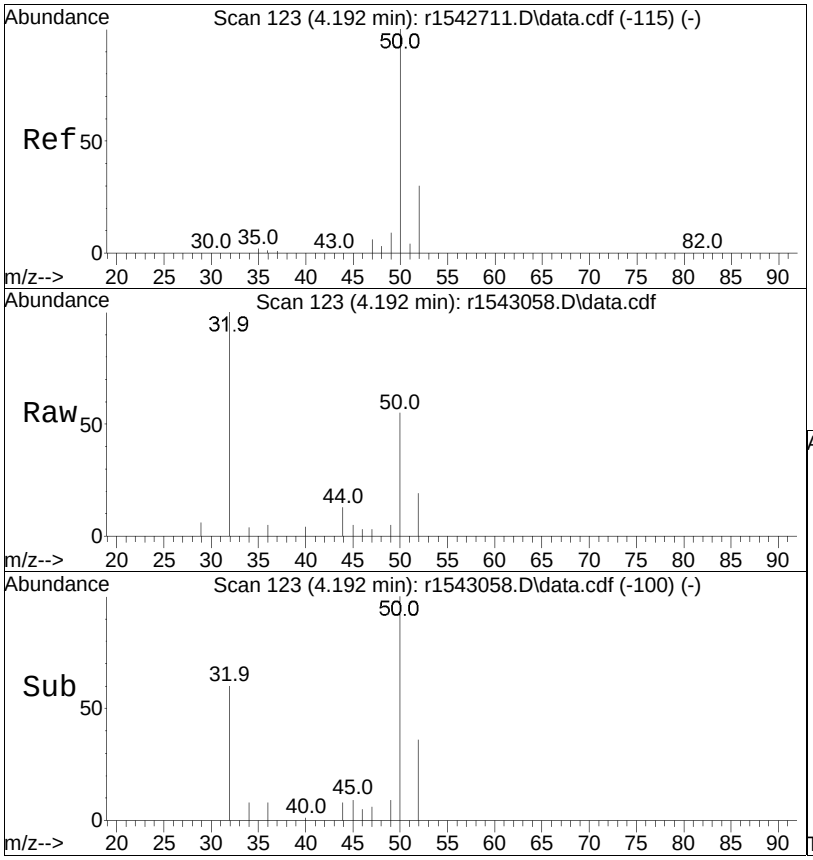


#5
dichlorodifluoromethane
Concen: 0.52 ppbV
RT: 4.024 min Scan# 95
Delta R.T. -0.070 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 85 Resp: 13198

Ion	Ratio	Lower	Upper
85	100		
87	32.6	26.1	39.1

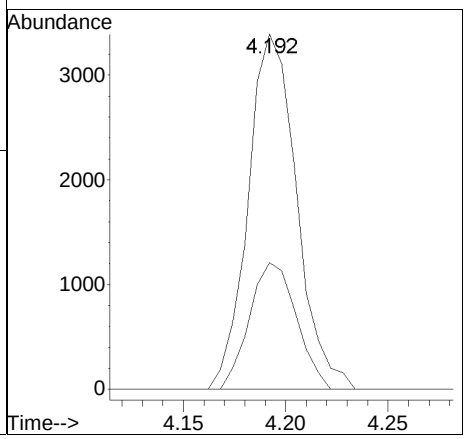


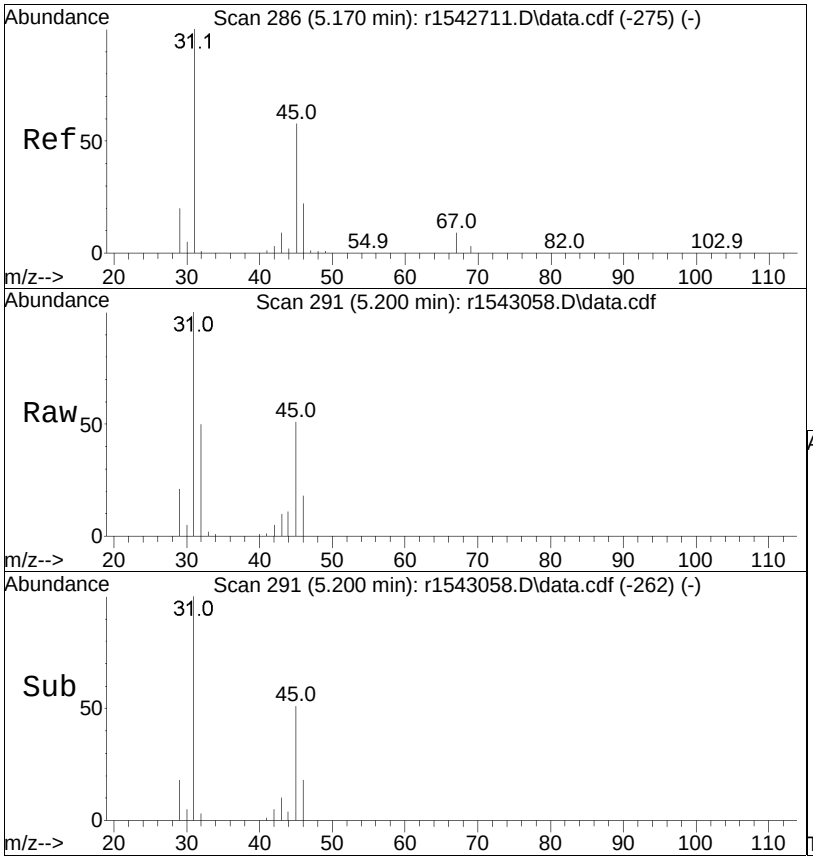


#6
chloromethane
Concen: 0.58 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.064 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 50 Resp: 5595

Ion	Ratio	Lower	Upper
50	100		
52	35.7	27.4	41.2

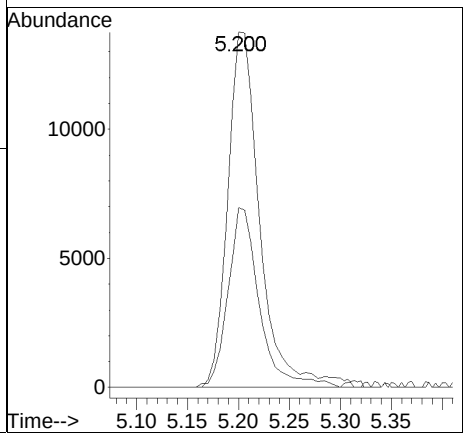


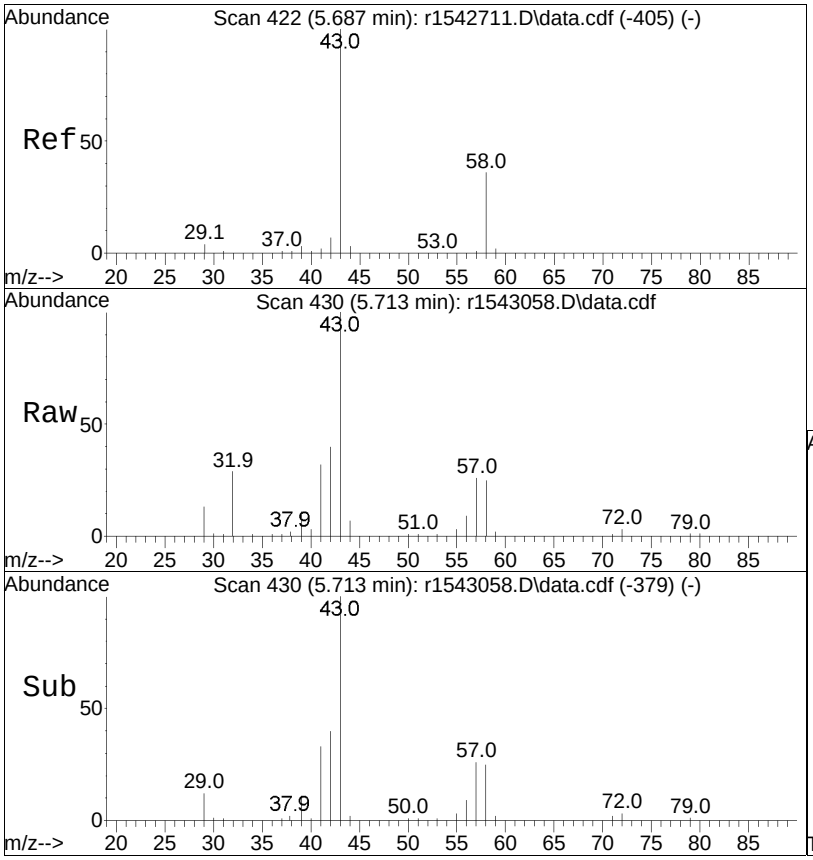


#15
ethanol
Concen: 3.38 ppbV
RT: 5.200 min Scan# 291
Delta R.T. -0.028 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 31 Resp: 28494

Ion	Ratio	Lower	Upper
31	100		
45	50.6	34.2	51.2

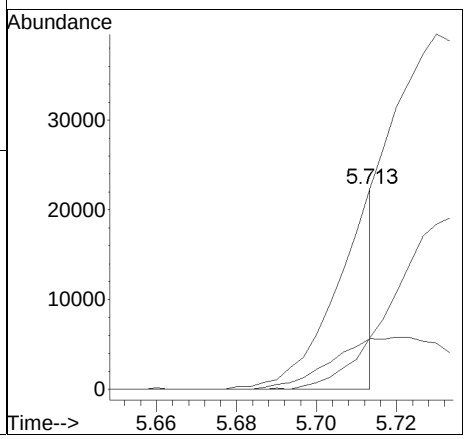


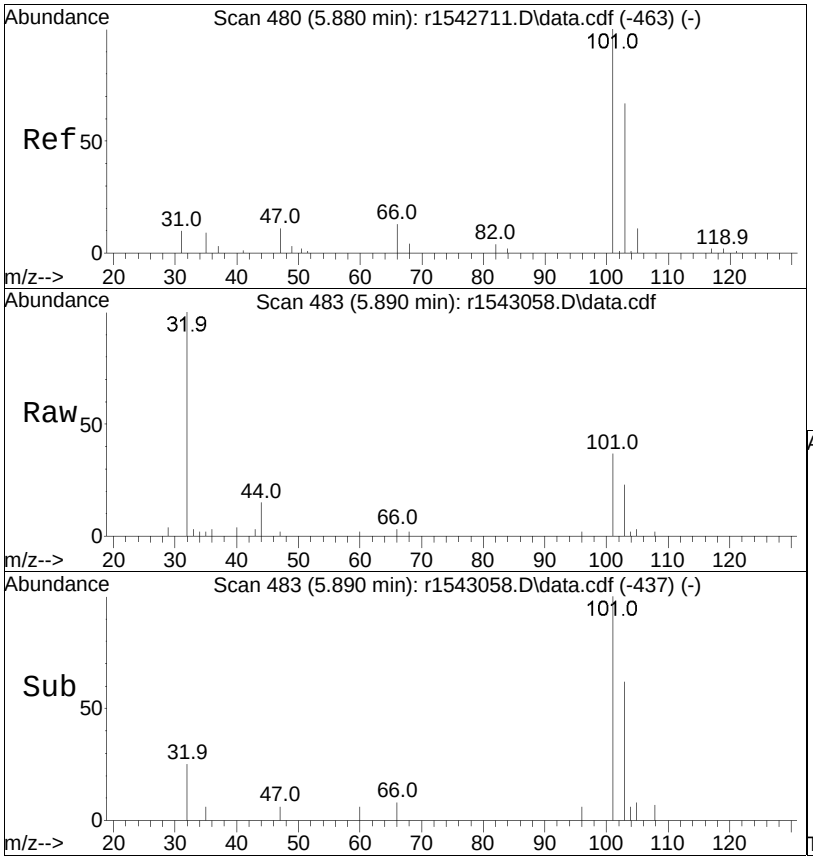


#19
acetone
Concen: 1.22 ppbV m
RT: 5.713 min Scan# 430
Delta R.T. -0.030 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 43 Resp: 15445

Ion	Ratio	Lower	Upper
43	100		
58	25.3	39.0	58.4#
57	25.8	0.9	1.3#

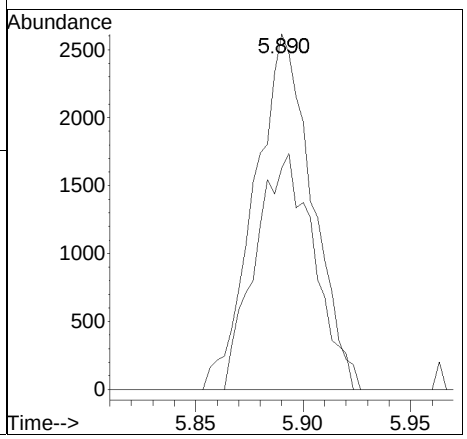


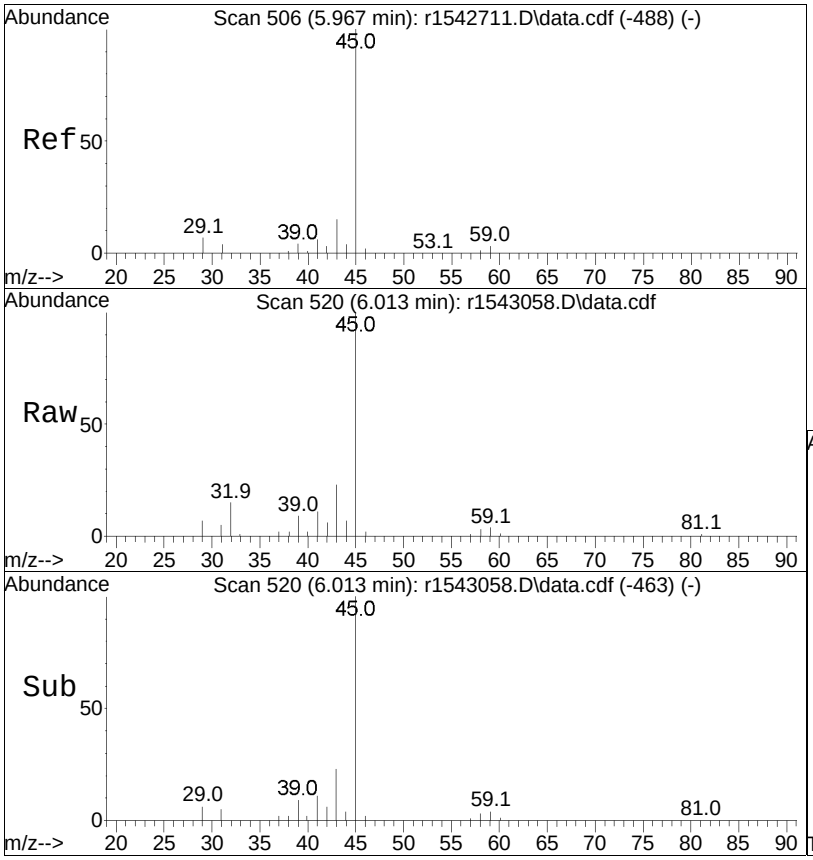


#21
trichlorofluoromethane
Concen: 0.26 ppbV
RT: 5.890 min Scan# 483
Delta R.T. -0.047 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion:101 Resp: 4910

Ion	Ratio	Lower	Upper
101	100		
103	62.3	49.4	74.0

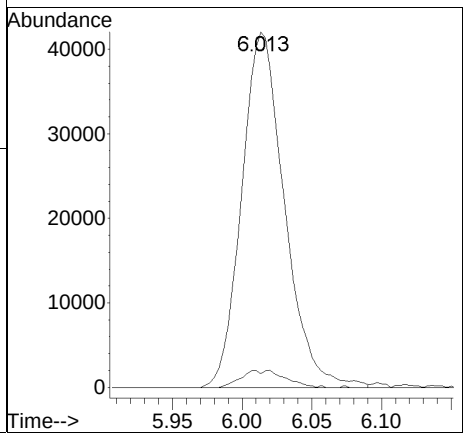


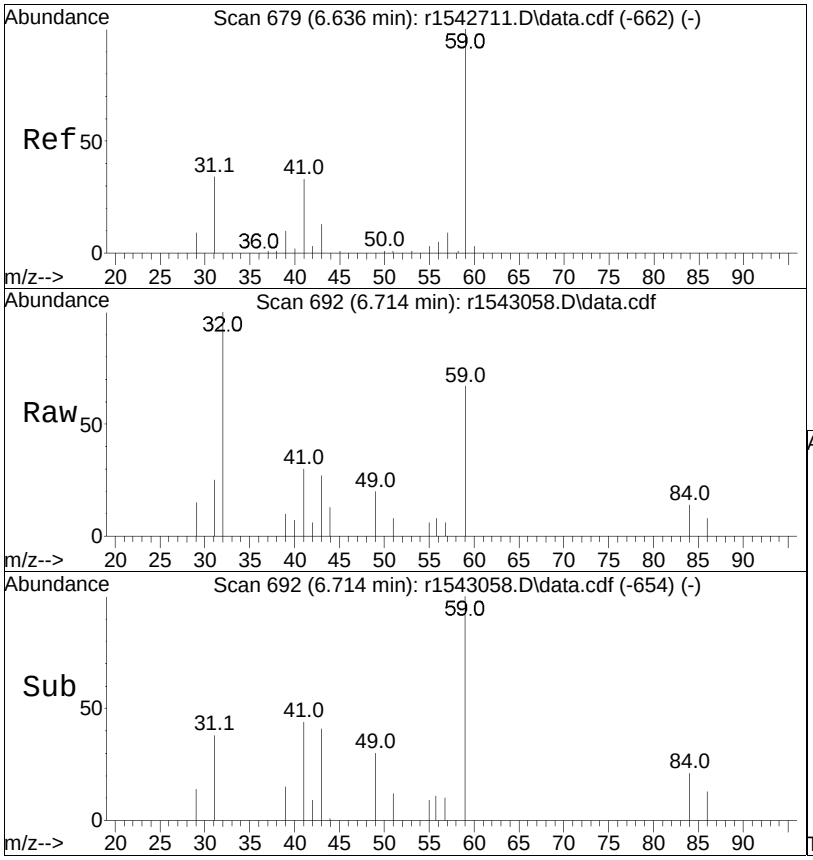


#22
isopropyl alcohol
Concen: 5.63 ppbV
RT: 6.013 min Scan# 520
Delta R.T. -0.010 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 45 Resp: 89813

Ion	Ratio	Lower	Upper
45	100		
59	3.9	4.6	6.8#

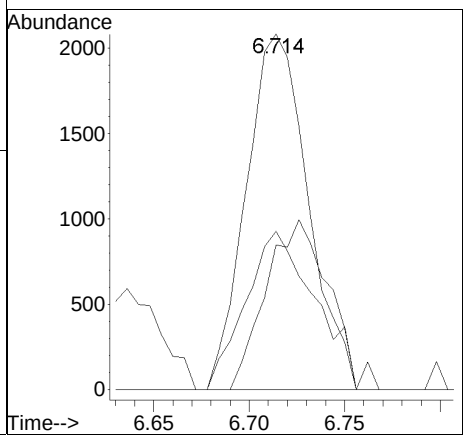


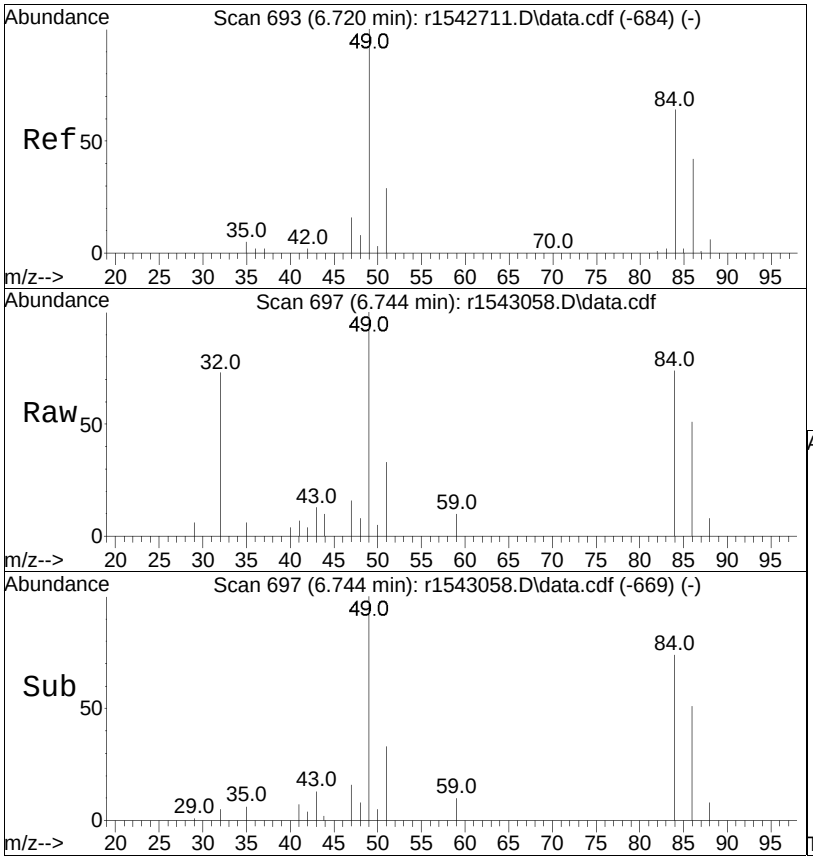


#27
tertiary butyl alcohol
Concen: 0.17 ppbV
RT: 6.714 min Scan# 692
Delta R.T. 0.026 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 59 Resp: 4682

Ion	Ratio	Lower	Upper
59	100		
41	44.5	21.0	31.4#
43	40.7	7.7	11.5#

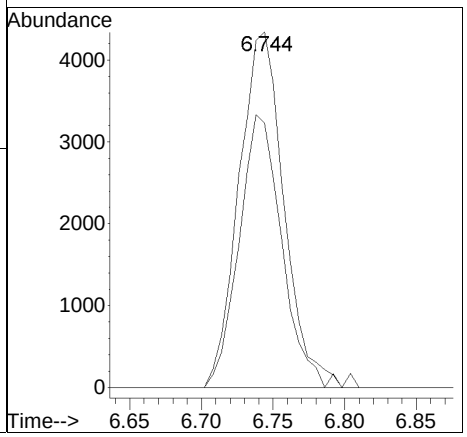


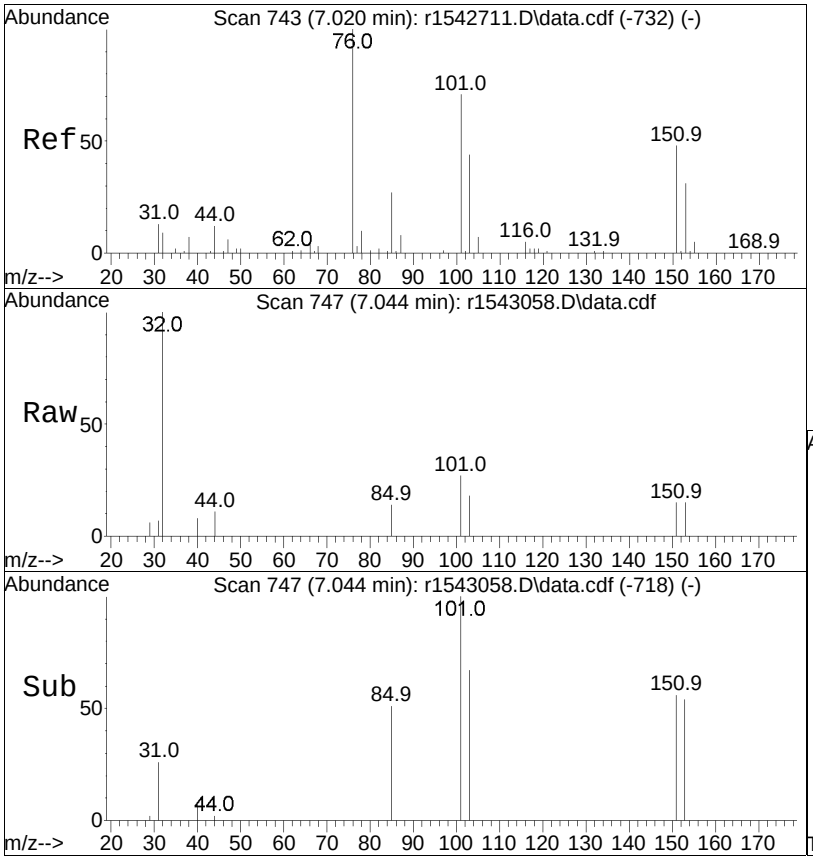


#28
methylene chloride
Concen: 0.55 ppbV
RT: 6.744 min Scan# 697
Delta R.T. -0.034 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 49 Resp: 9543

Ion	Ratio	Lower	Upper
49	100		
84	74.3	61.2	91.8

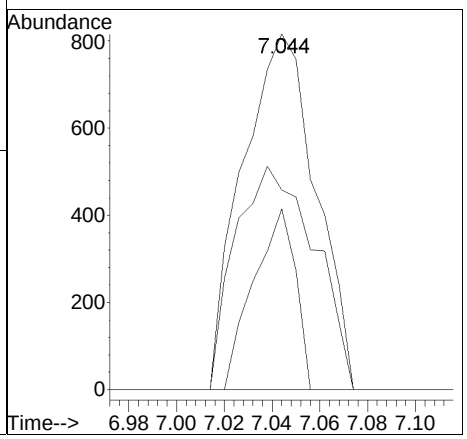


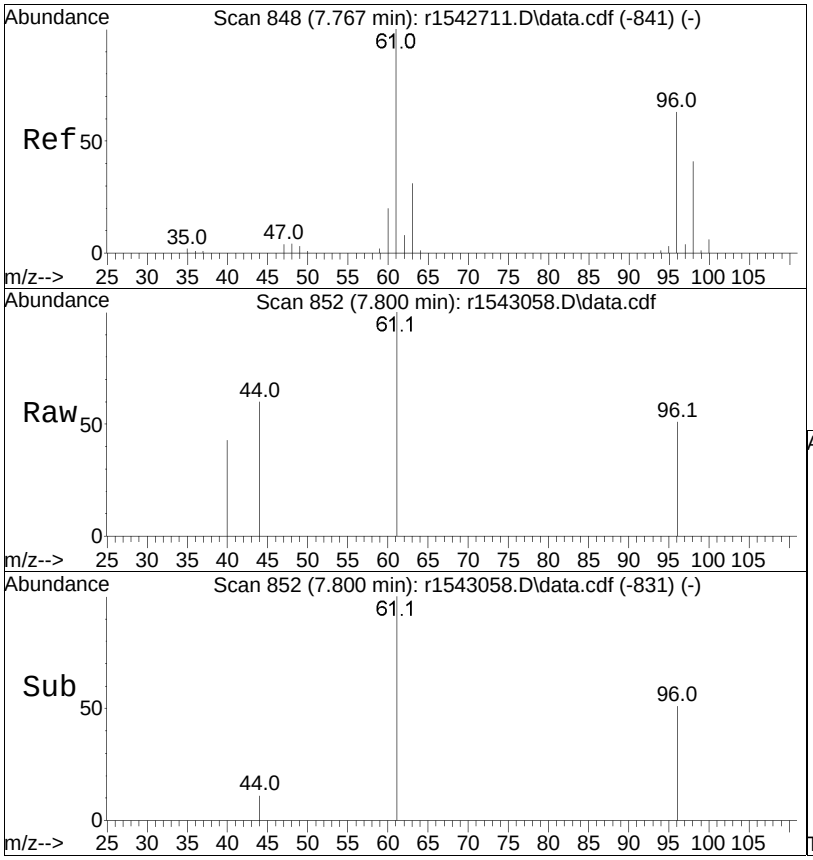


#31
Freon 113
Concen: 0.07 ppbV
RT: 7.044 min Scan# 747
Delta R.T. -0.028 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion:101 Resp: 1743

Ion	Ratio	Lower	Upper
101	100		
85	50.9	35.3	52.9
151	56.1	63.8	95.8#

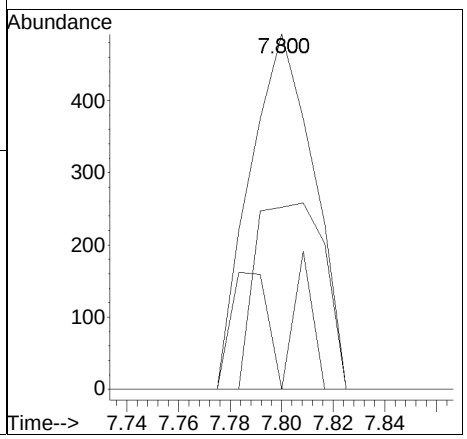


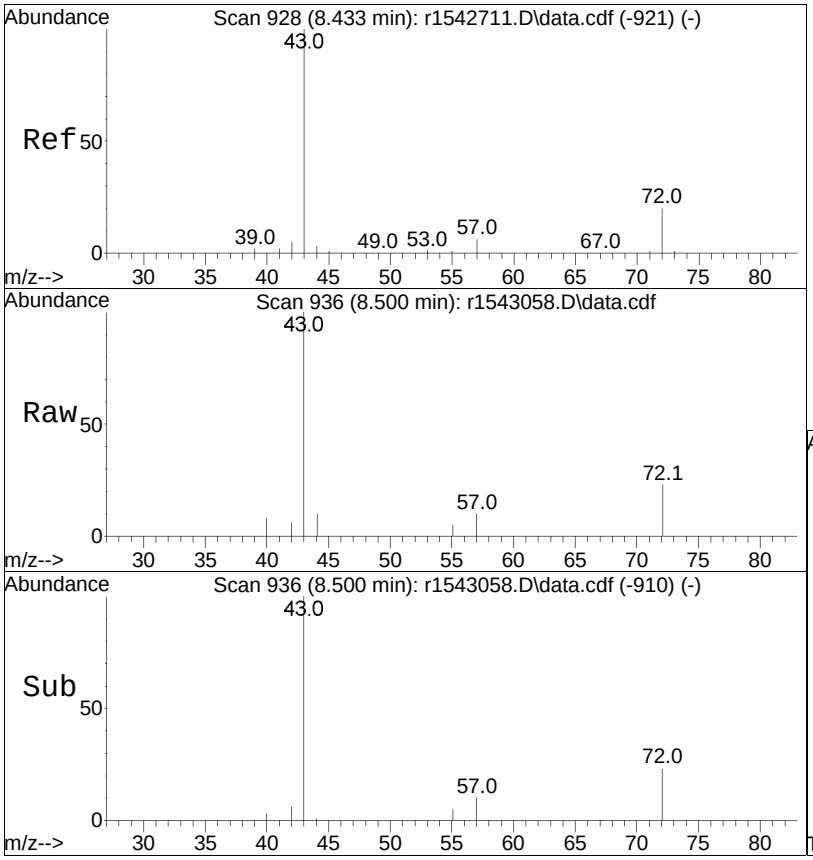


#32
trans-1,2-dichloroethene
Concen: 0.04 ppbV
RT: 7.800 min Scan# 852
Delta R.T. -0.025 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 61 Resp: 846

Ion	Ratio	Lower	Upper
61	100		
96	51.2	52.2	78.4#
98	0.0	33.0	49.4#

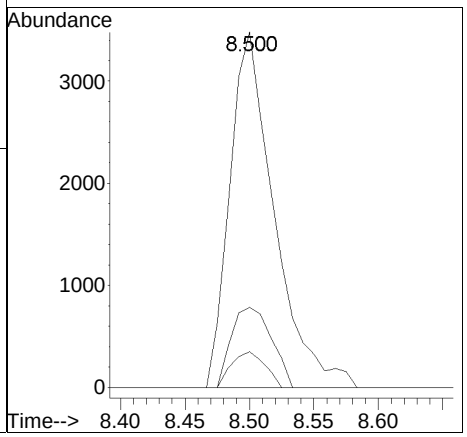


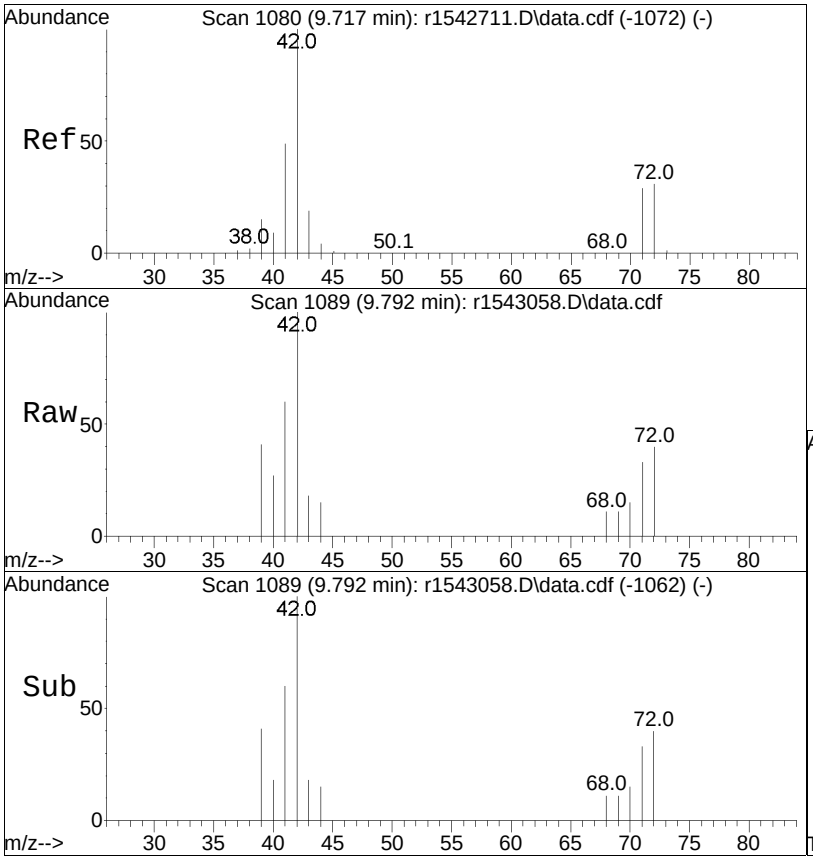


#36
2-butanone
Concen: 0.28 ppbV
RT: 8.500 min Scan# 936
Delta R.T. 0.017 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 43 Resp: 8338

Ion	Ratio	Lower	Upper
43	100		
72	22.6	21.0	31.4
57	10.1	7.1	10.7

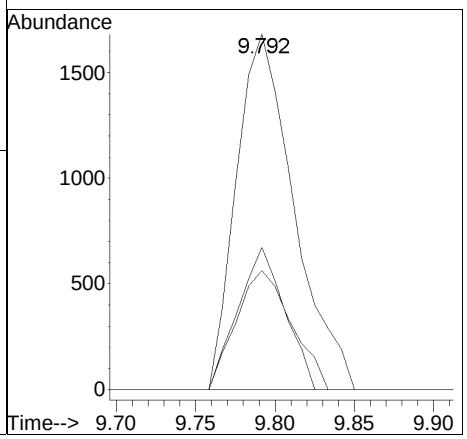


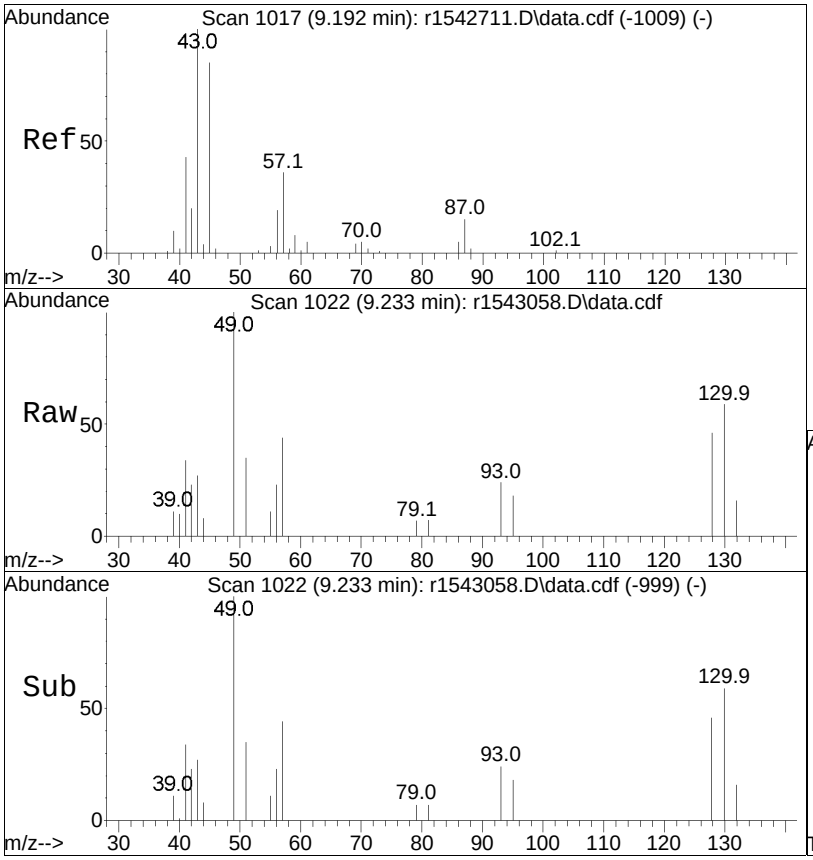


#40
Tetrahydrofuran
Concen: 0.23 ppbV
RT: 9.792 min Scan# 1089
Delta R.T. 0.025 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 42 Resp: 4243

Ion	Ratio	Lower	Upper
42	100		
71	33.5	30.6	46.0
72	40.0	32.5	48.7

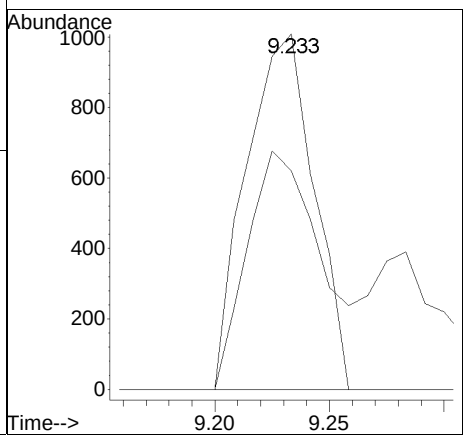


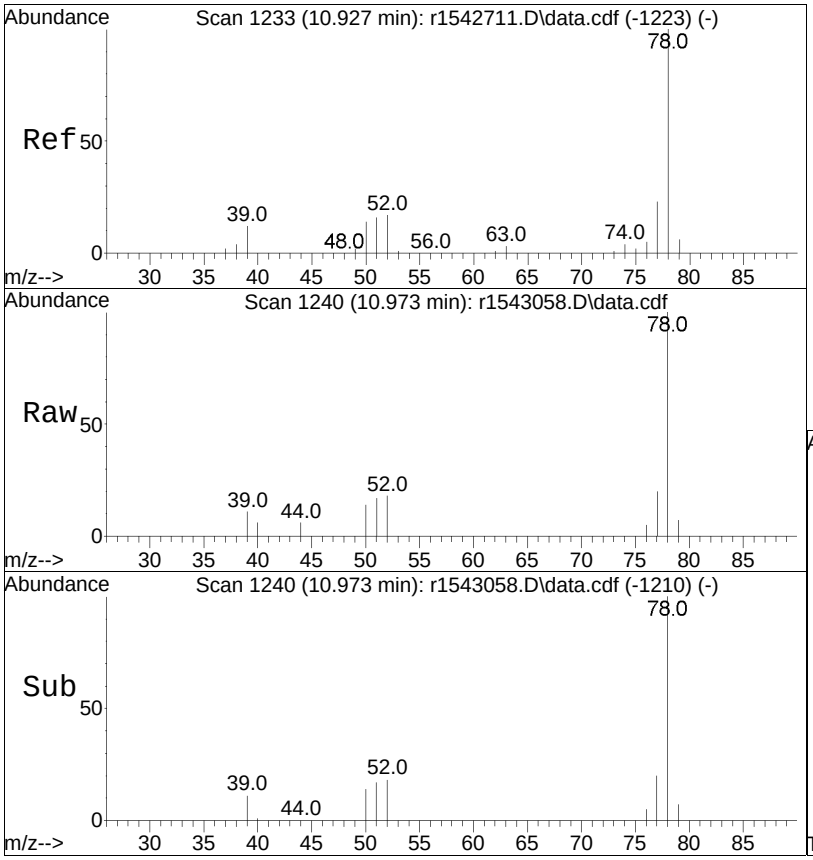


#44
hexane
Concen: 0.08 ppbV
RT: 9.233 min Scan# 1022
Delta R.T. -0.008 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 57 Resp: 2071

Ion	Ratio	Lower	Upper
57	100		
43	61.5	146.8	220.2#
86	0.0	12.7	19.1#

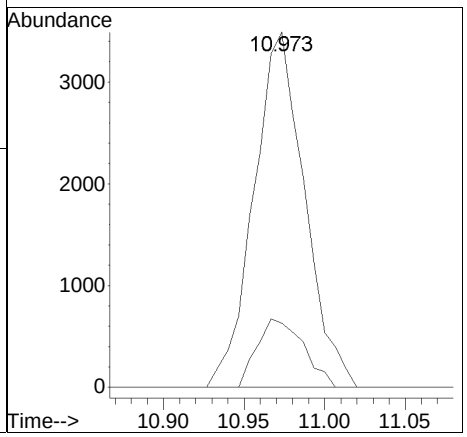


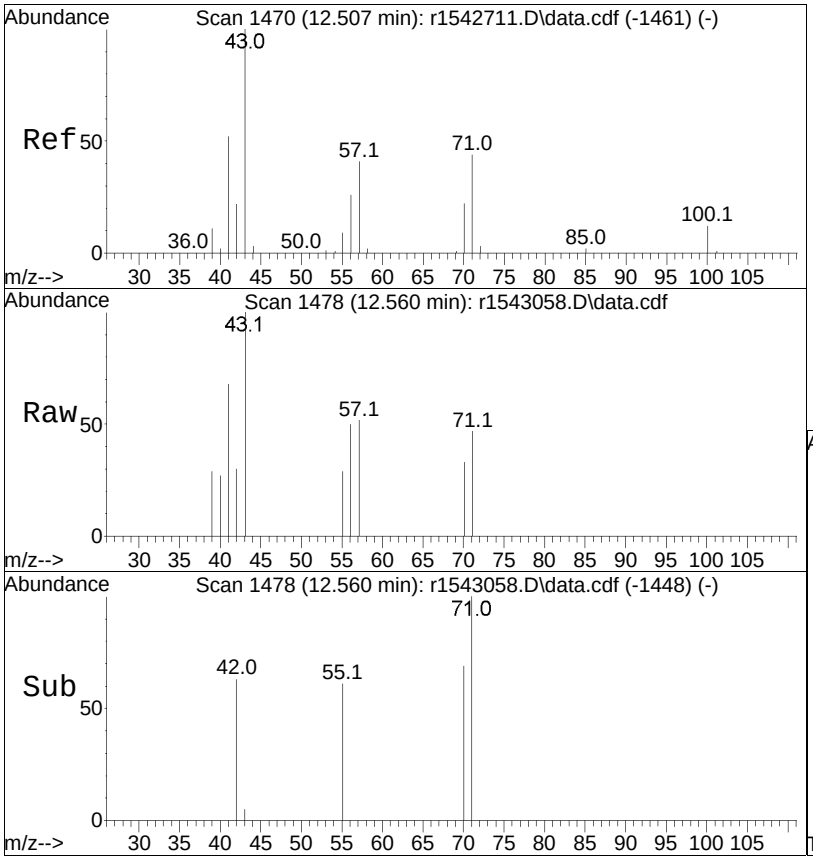


#50
benzene
Concen: 0.15 ppbV
RT: 10.973 min Scan# 1240
Delta R.T. 0.000 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 78 Resp: 7648

Ion	Ratio	Lower	Upper
78	100		
52	18.1	14.1	21.1

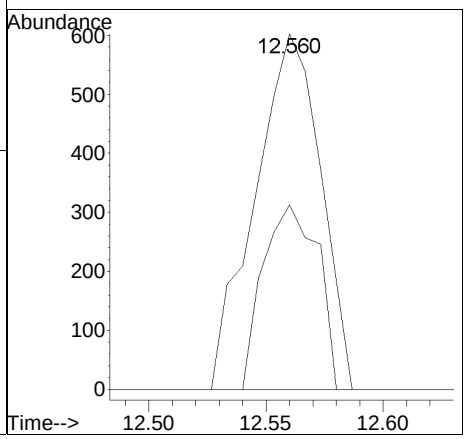


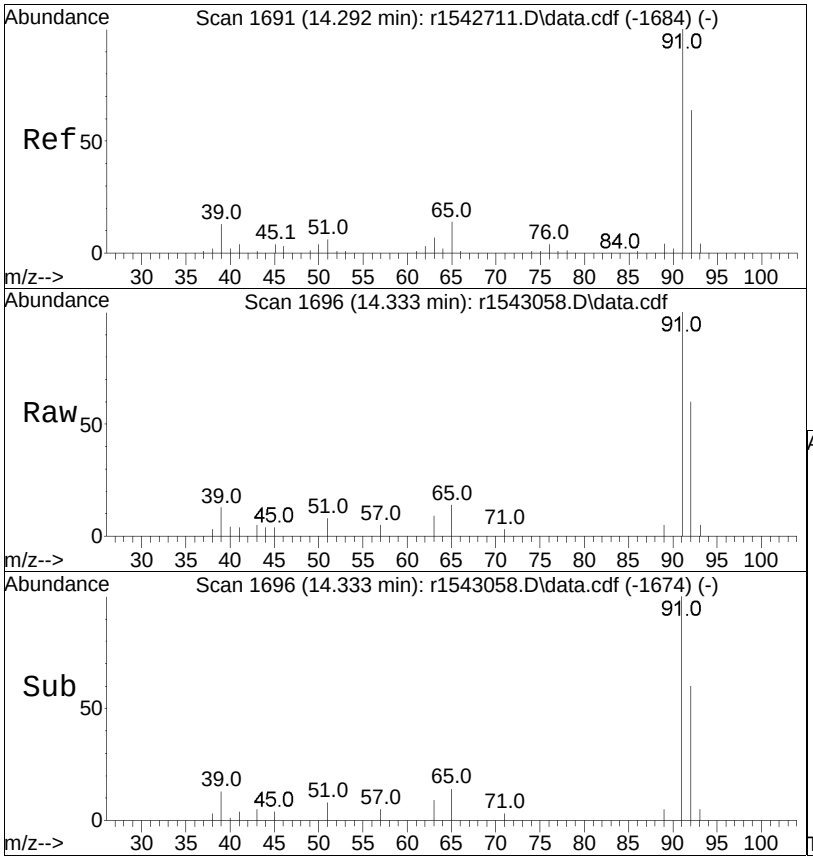


#62
heptane
Concen: 0.04 ppbV
RT: 12.560 min Scan# 1478
Delta R.T. 0.000 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 43 Resp: 1174

Ion	Ratio	Lower	Upper
43	100		
57	52.0	46.6	70.0
100	0.0	13.3	19.9#

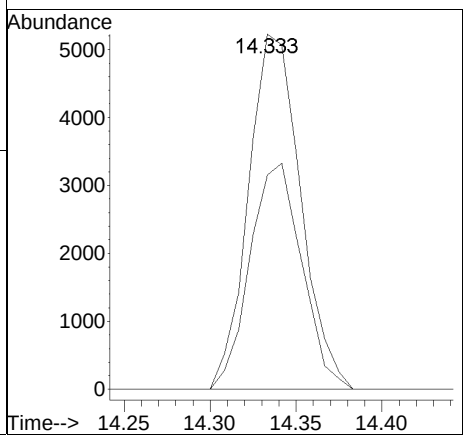


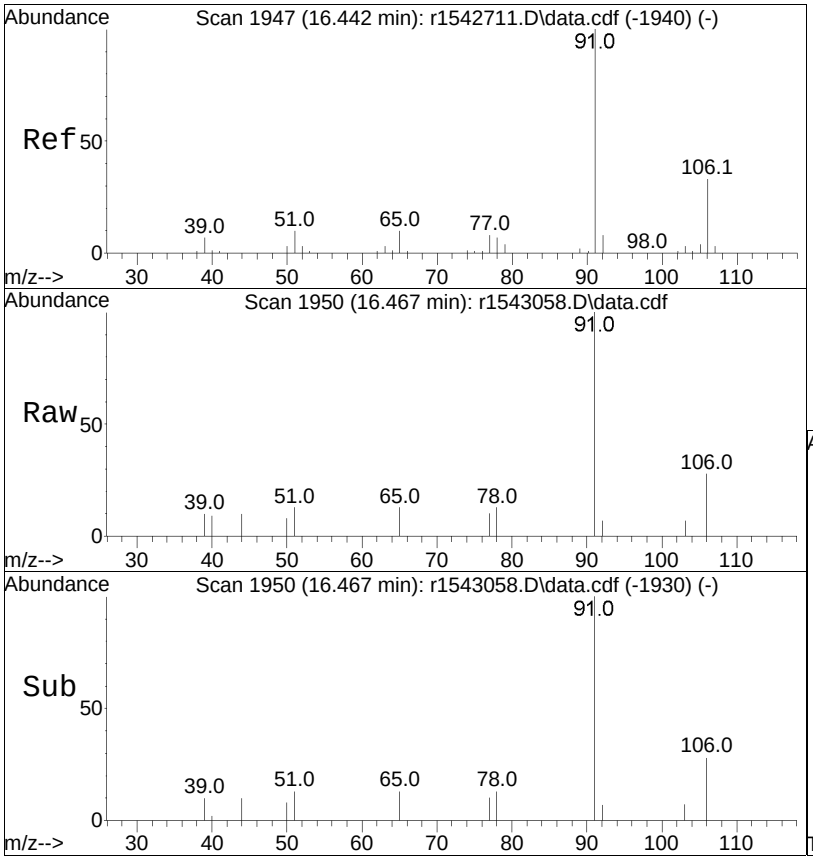


#68
toluene
Concen: 0.16 ppbV
RT: 14.333 min Scan# 1696
Delta R.T. -0.017 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 91 Resp: 11038

Ion	Ratio	Lower	Upper
91	100		
92	60.3	51.0	76.4

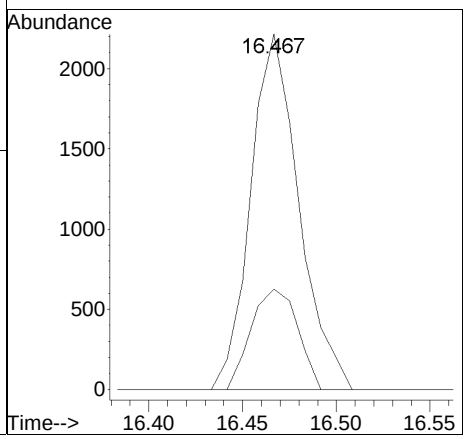


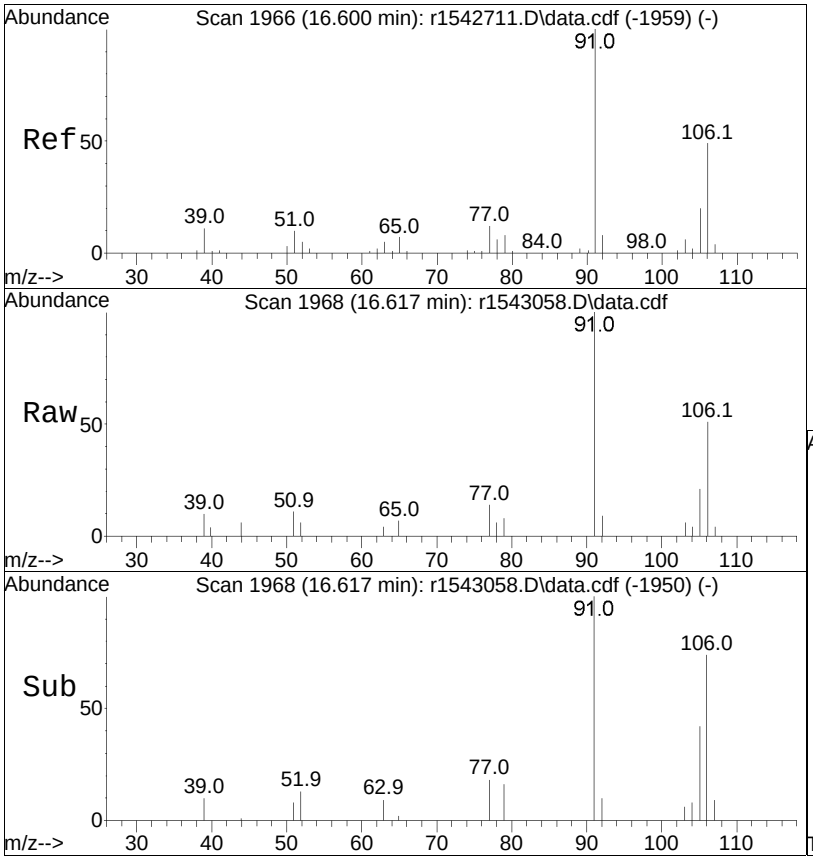


#81
ethylbenzene
Concen: 0.05 ppbV
RT: 16.467 min Scan# 1950
Delta R.T. -0.033 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 91 Resp: 3967

Ion	Ratio	Lower	Upper
91	100		
106	28.2	27.7	41.5

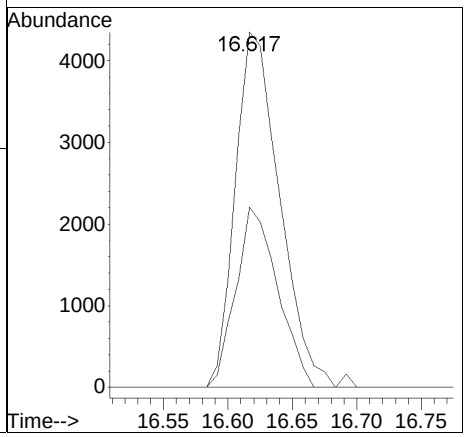


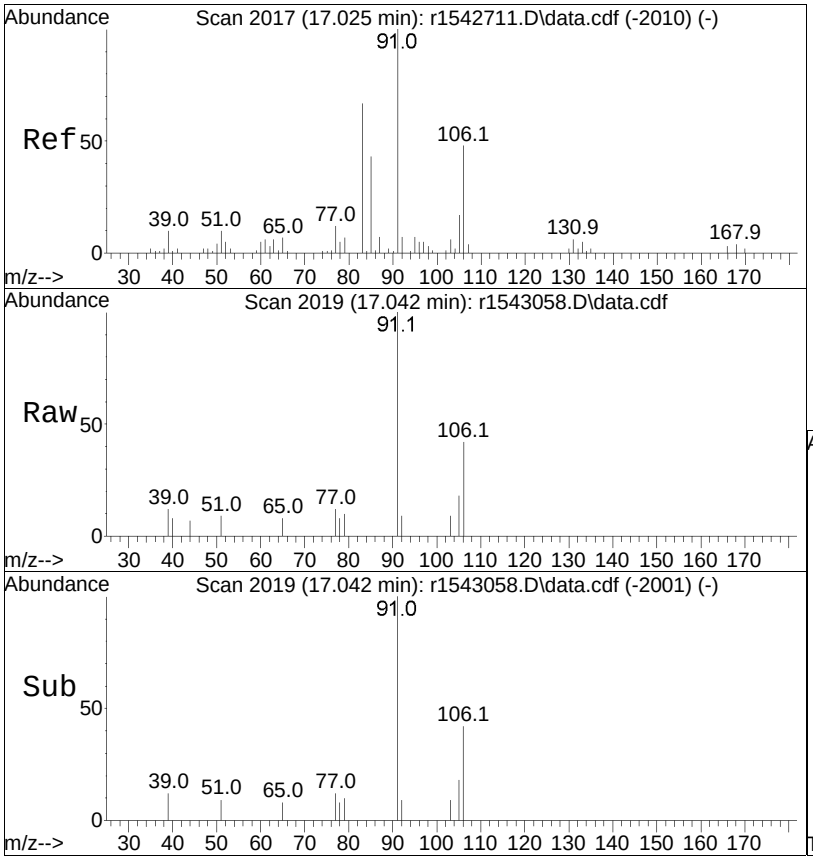


#83
m+p-xylene
Concen: 0.15 ppbV
RT: 16.617 min Scan# 1968
Delta R.T. -0.050 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 91 Resp: 10485

Ion	Ratio	Lower	Upper
91	100		
106	50.7	42.7	64.1

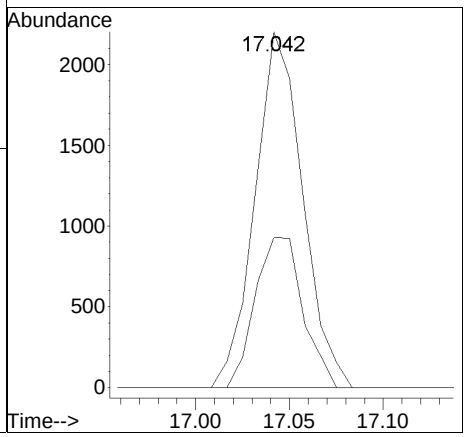


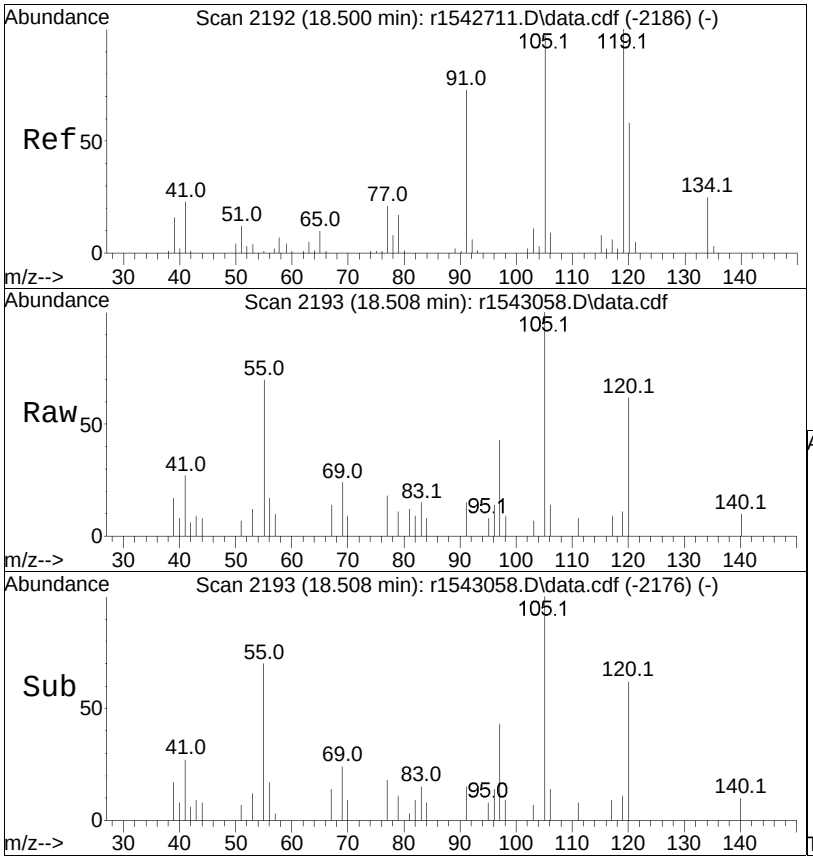


#87
o-xylene
Concen: 0.06 ppbV
RT: 17.042 min Scan# 2019
Delta R.T. -0.050 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion: 91 Resp: 3890

Ion	Ratio	Lower	Upper
91	100		
106	42.2	40.0	60.0

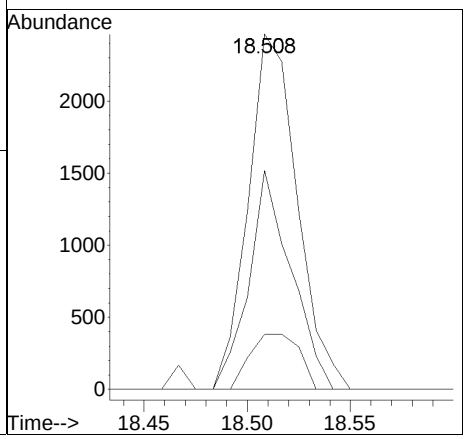




#99
1,2,4-trimethylbenzene
Concen: 0.05 ppbV
RT: 18.508 min Scan# 2193
Delta R.T. -0.058 min
Lab File: r1543058.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion:105 Resp: 4073

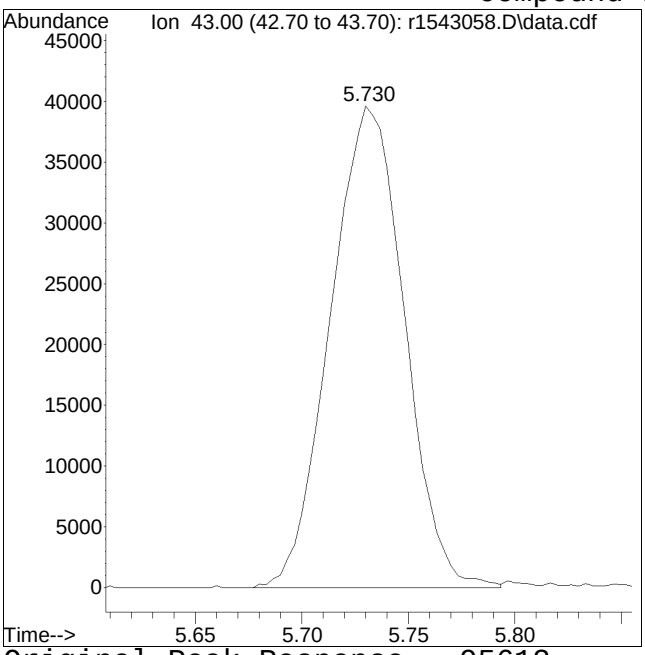
Ion	Ratio	Lower	Upper
105	100		
120	61.6	51.8	77.6
91	15.5	58.3	87.5#



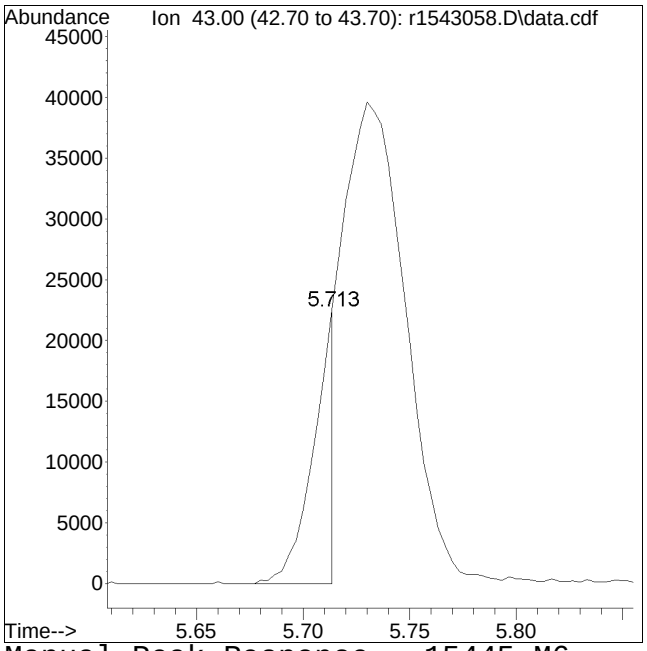
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543058.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:0: 2 Instrument :
Sample : L2409206-06,3,250,250 Quant Date : 2/27/2024 7:21 am

Compound #19: acetone



Original Peak Response = 95612



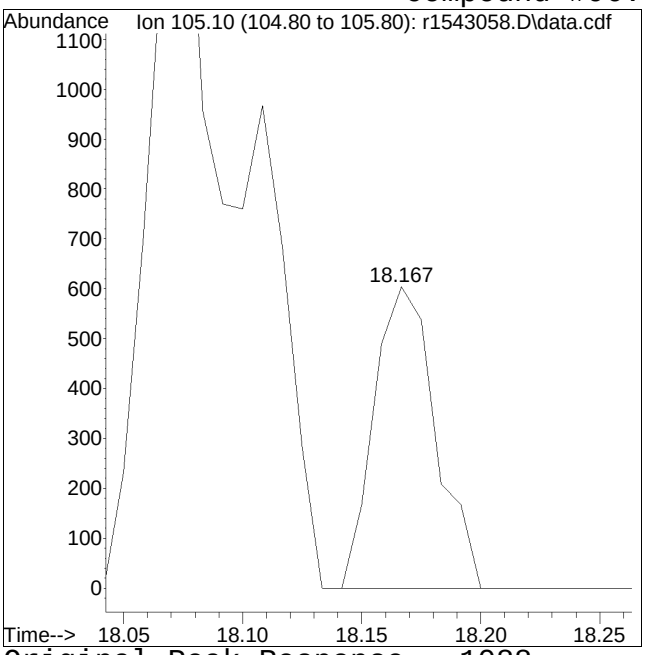
Manual Peak Response = 15445 M6

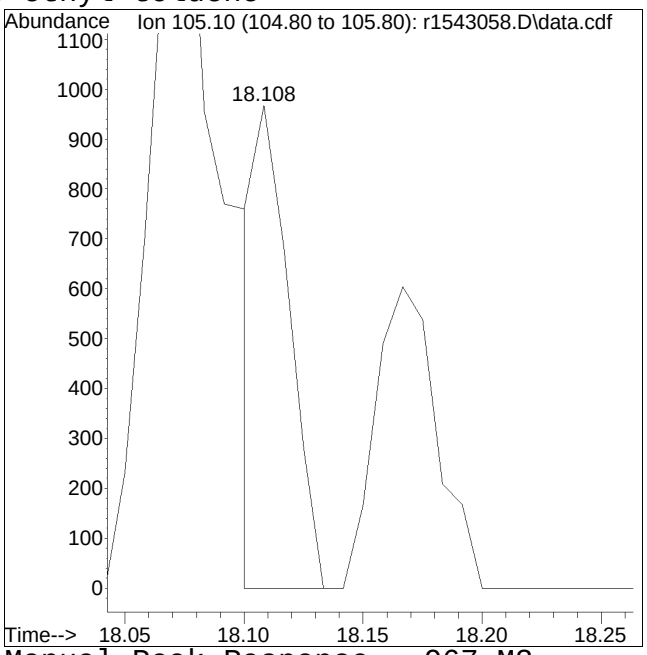
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543058.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:0: 2 Instrument :
Sample : L2409206-06,3,250,250 Quant Date : 2/27/2024 7:21 am

Compound #96: 4-ethyl toluene





Original Peak Response = 1088 Manual Peak Response = 967 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543059.D
Acq On : 26 Feb 2024 11:04 PM
Operator : AIRLAB15:KJD
Sample : L2409206-08,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:22:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.167	49	224774	10.000	ppbV		0.00
Standard Area = 240397			Recovery =	93.50%			
43) 1,4-difluorobenzene	11.393	114	614202	10.000	ppbV	#	0.00
Standard Area = 687087			Recovery =	89.39%			
67) chlorobenzene-D5	16.075	54	117528	10.000	ppbV		-0.03
Standard Area = 126242			Recovery =	93.10%			
System Monitoring Compounds							
Target Compounds							Qvalue
5) dichlorodifluoromethane	4.030	85	13413	0.524	ppbV		99
6) chloromethane	4.198	50	5881	0.611	ppbV		95
7) Freon-114	4.306		0	N.D.			
10) 1,3-butadiene	4.570	54	436	0.046	ppbV		97
13) bromomethane	4.798		0	N.D.			
14) chloroethane	0.000		0	N.D.			
15) ethanol	5.212	31	37531	4.438	ppbV		91
17) vinyl bromide	0.000		0	N.D.	d		
19) acetone	5.713	43	8943M6	0.705	ppbV		
21) trichlorofluoromethane	5.893	101	5122	0.268	ppbV		97
22) isopropyl alcohol	6.037	45	5114	0.320	ppbV	#	83
27) tertiary butyl alcohol	6.714	59	6450	0.238	ppbV	#	74
28) methylene chloride	6.744	49	12249	0.707	ppbV		92
29) 3-chloropropene	0.000		0	N.D.			
30) carbon disulfide	7.056		0	N.D.			
31) Freon 113	7.044	101	1814	0.072	ppbV		94
32) trans-1,2-dichloroethene	7.808	61	816	0.037	ppbV	#	58
33) 1,1-dichloroethane	0.000		0	N.D.			
34) MTBE	0.000		0	N.D.			
36) 2-butanone	8.508	43	3862	0.129	ppbV	#	91
38) Ethyl Acetate	0.000		0	N.D.			
39) chloroform	9.317		0	N.D.			
40) Tetrahydrofuran	9.800	42	3171	0.170	ppbV		95
42) 1,2-dichloroethane	10.158		0	N.D.			
44) hexane	9.233	57	2717	0.101	ppbV	#	22
50) benzene	10.973	78	7476	0.150	ppbV		96
53) cyclohexane	11.293		0	N.D.			
56) 1,2-dichloropropane	0.000		0	N.D.			

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543059.D
Acq On : 26 Feb 2024 11:04 PM
Operator : AIRLAB15:KJD
Sample : L2409206-08,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:22:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

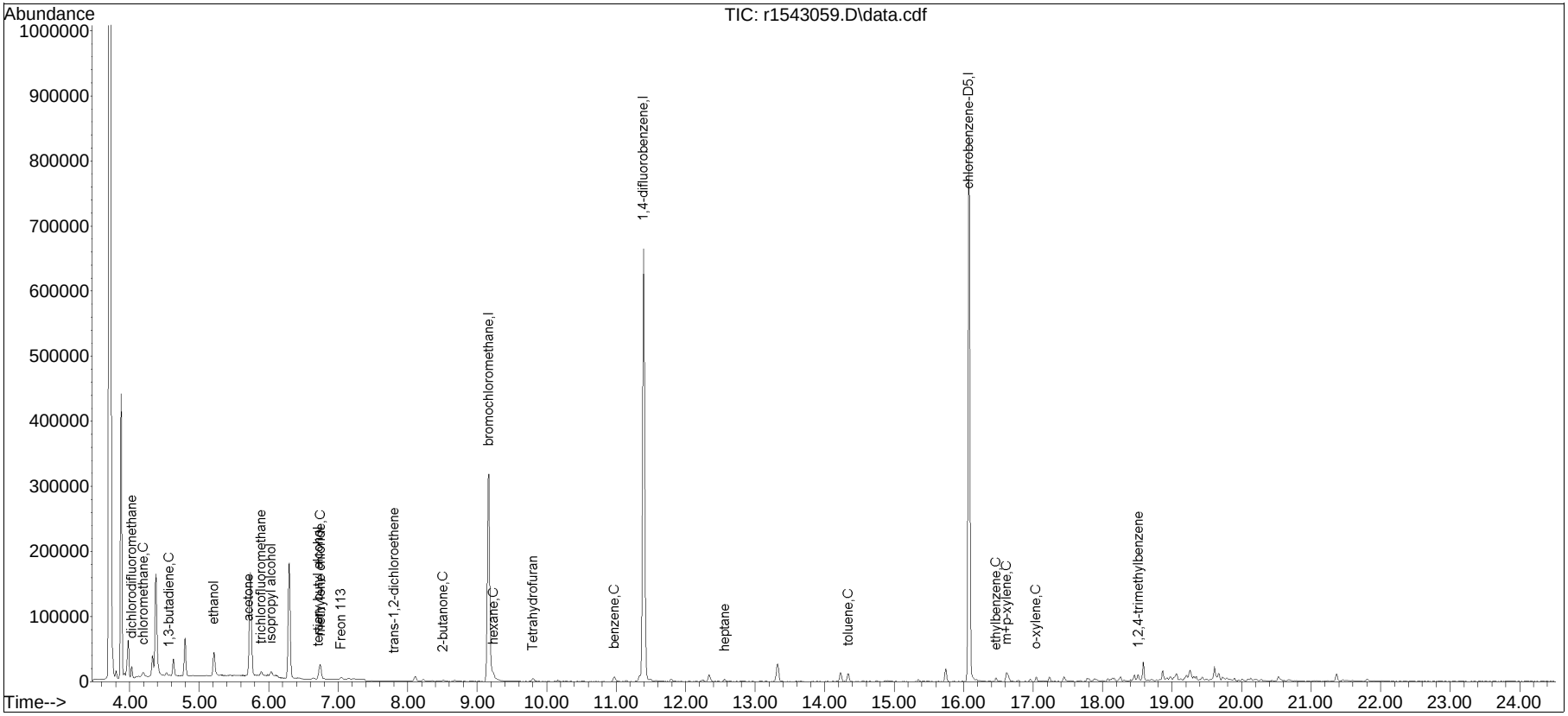
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.247		0	N.D.		
62) heptane	12.560	43	1455	0.049	ppbV #	87
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D. d		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.342	91	10307	0.153	ppbV	95
72) 2-hexanone	14.600		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. d		
81) ethylbenzene	16.467	91	4548	0.053	ppbV	93
83) m+p-xylene	16.617	91	12438	0.183	ppbV	90
84) bromoform	0.000		0	N.D.		
85) styrene	16.958		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	17.042	91	4475	0.066	ppbV	100
96) 4-ethyl toluene	18.108		0	N.D.		
97) 1,3,5-trimethylbenzene	18.175		0	N.D.		
99) 1,2,4-trimethylbenzene	18.517	105	2694	0.035	ppbV #	57
101) Benzyl Chloride	0.000		0	N.D. d		
102) 1,3-dichlorobenzene	0.000		0	N.D. d		
103) 1,4-dichlorobenzene	0.000		0	N.D. d		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

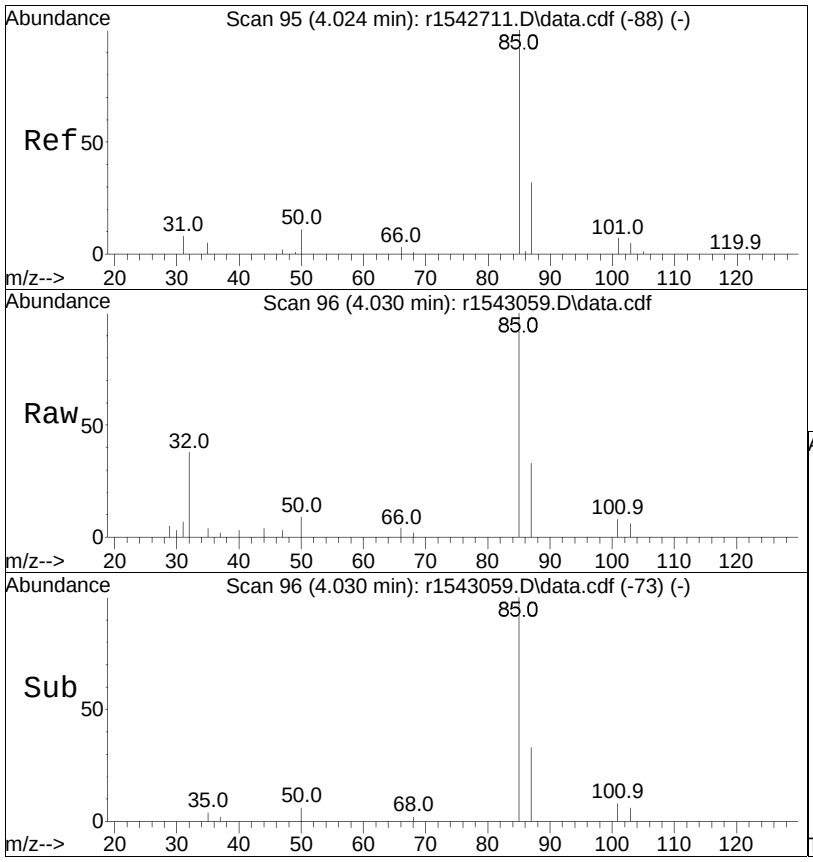
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab15\2024\02\0226T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543059.D
Acq On : 26 Feb 2024 11:04 PM
Operator : AIRLAB15:KJD
Sample : L2409206-08,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:22:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

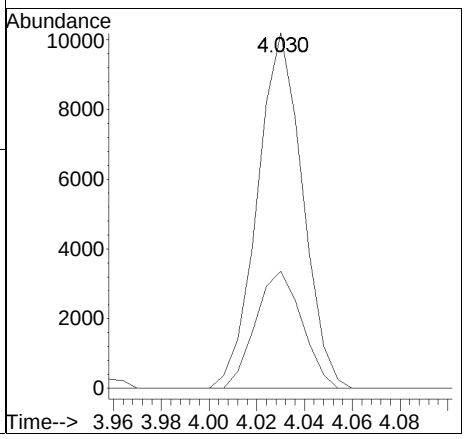


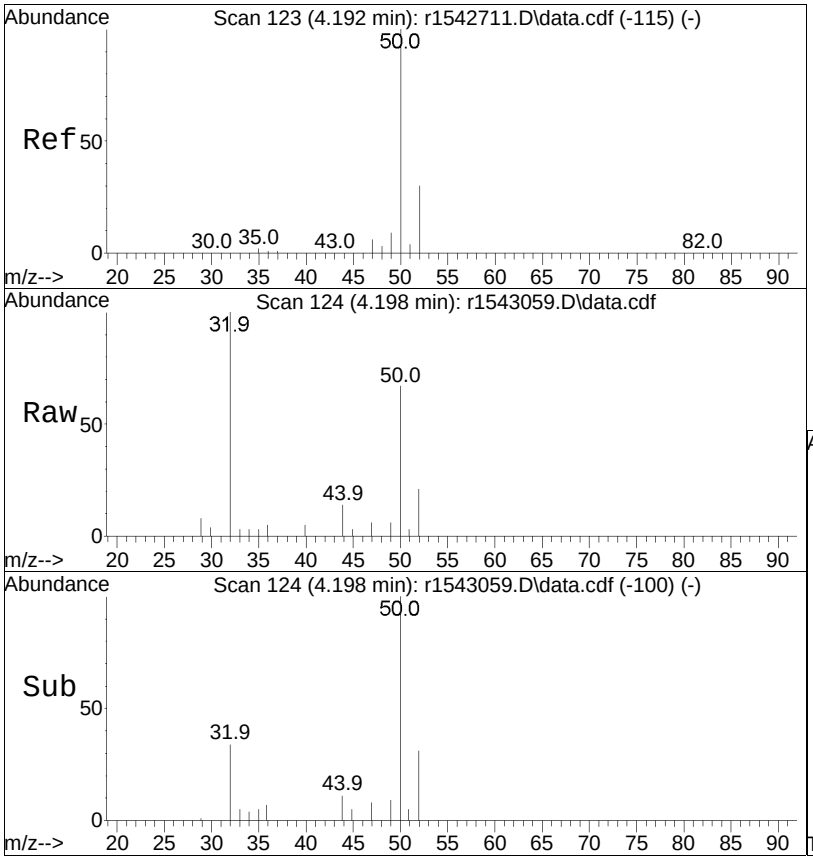


#5
dichlorodifluoromethane
Concen: 0.52 ppbV
RT: 4.030 min Scan# 96
Delta R.T. -0.064 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 85 Resp: 13413

Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.1	39.1

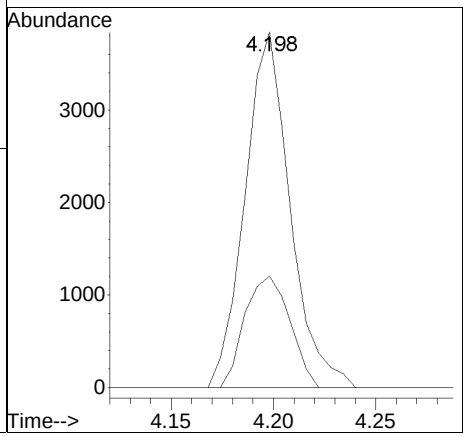


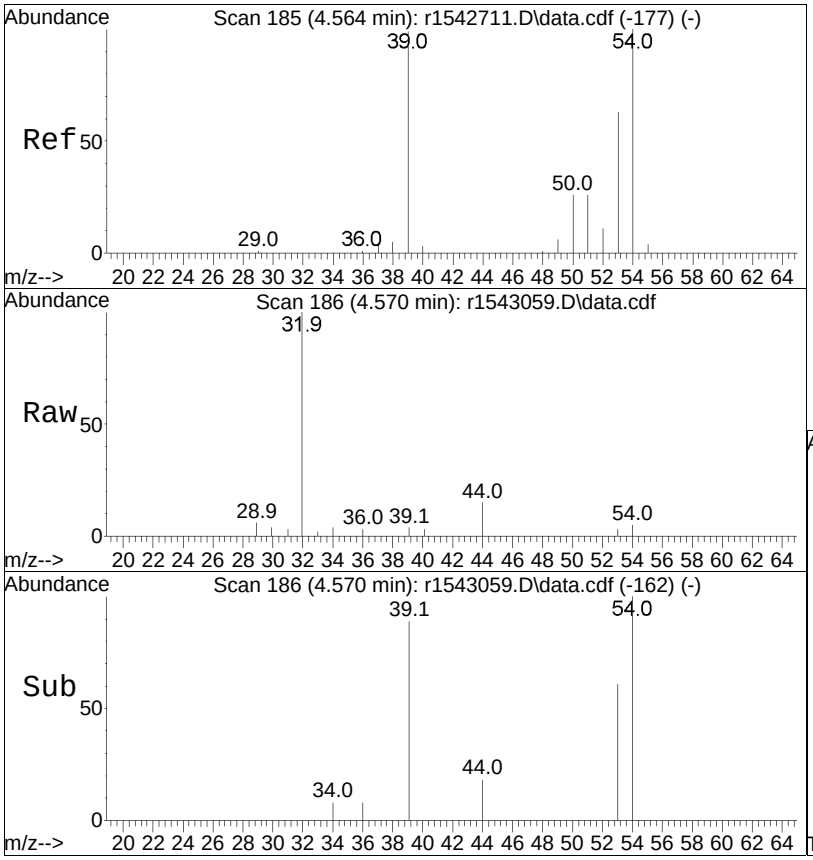


#6
chloromethane
Concen: 0.61 ppbV
RT: 4.198 min Scan# 124
Delta R.T. -0.058 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 50 Resp: 5881

Ion	Ratio	Lower	Upper
50	100		
52	31.3	27.4	41.2

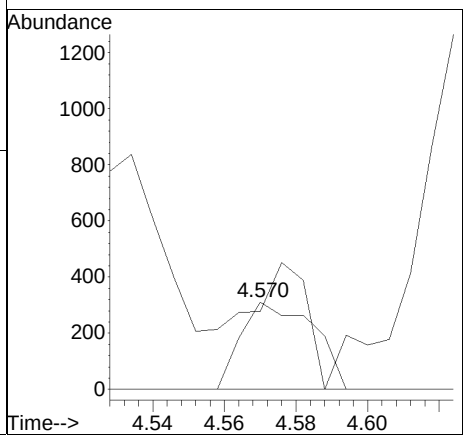


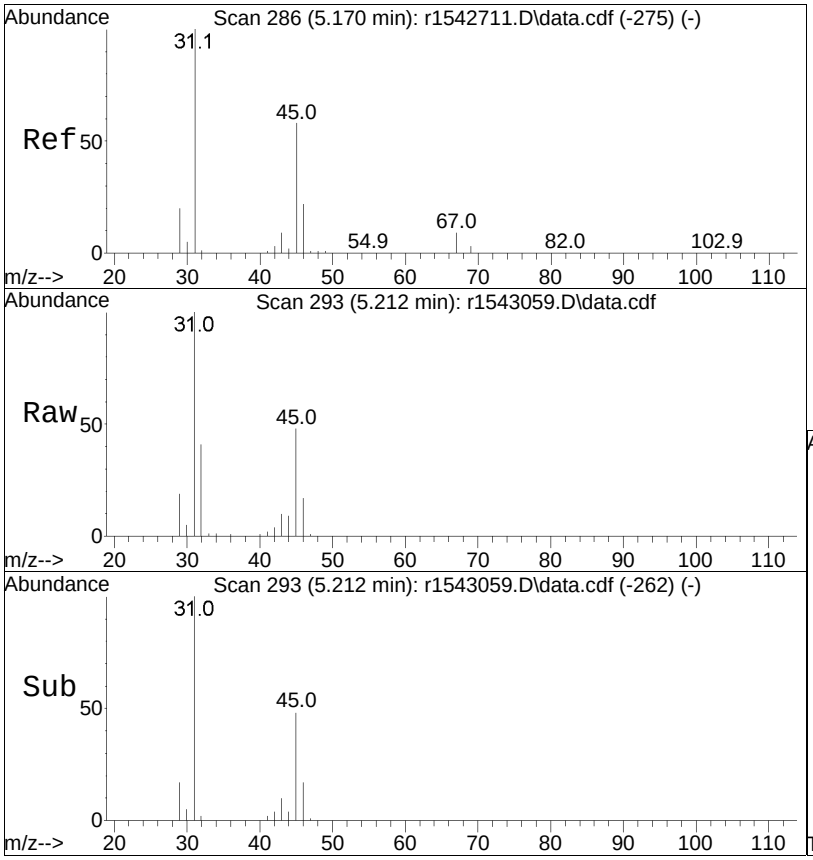


#10
1,3-butadiene
Concen: 0.05 ppbV
RT: 4.570 min Scan# 186
Delta R.T. -0.058 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 54 Resp: 436

Ion	Ratio	Lower	Upper
54	100		
39	89.4	73.8	110.8

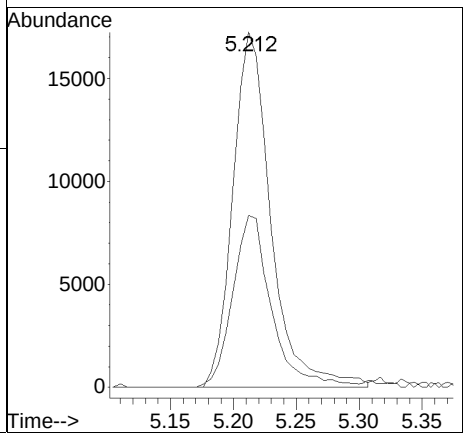


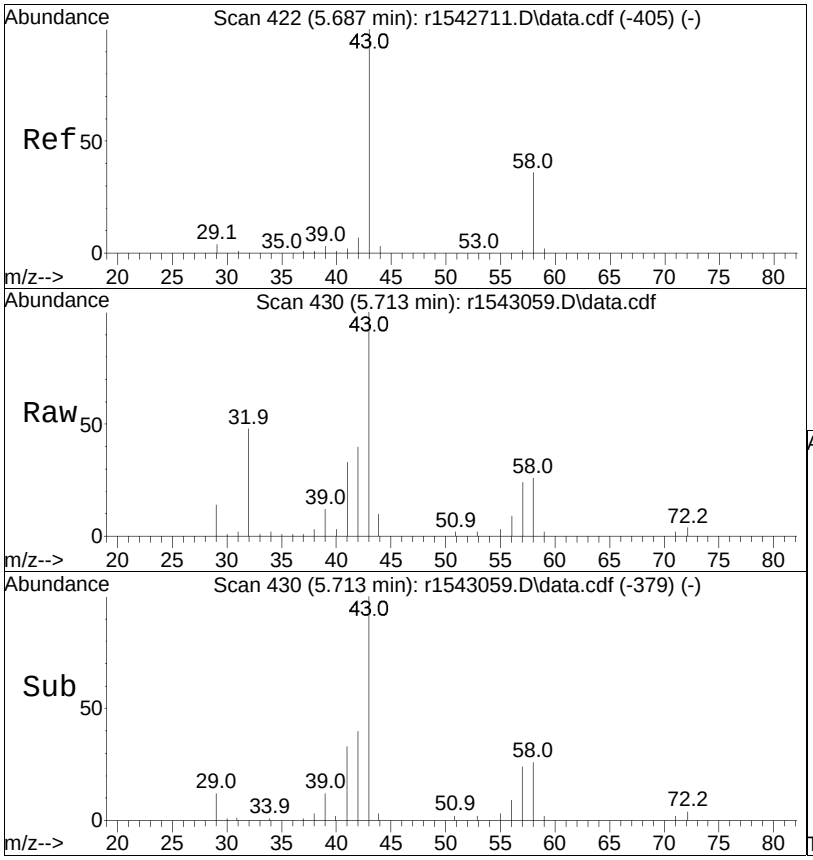


#15
ethanol
Concen: 4.44 ppbV
RT: 5.212 min Scan# 293
Delta R.T. -0.016 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 31 Resp: 37531

Ion	Ratio	Lower	Upper
31	100		
45	48.4	34.2	51.2

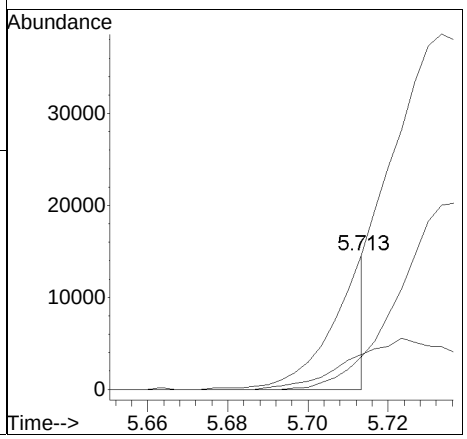


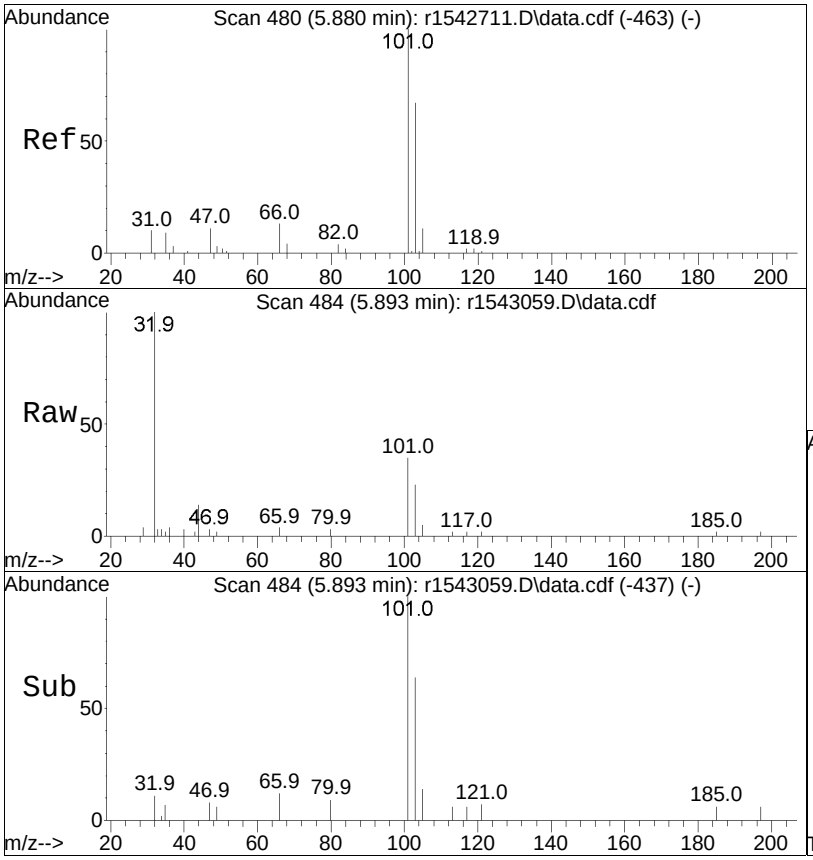


#19
acetone
Concen: 0.70 ppbV m
RT: 5.713 min Scan# 430
Delta R.T. -0.030 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 43 Resp: 8943

Ion	Ratio	Lower	Upper
43	100		
58	26.0	39.0	58.4#
57	24.3	0.9	1.3#

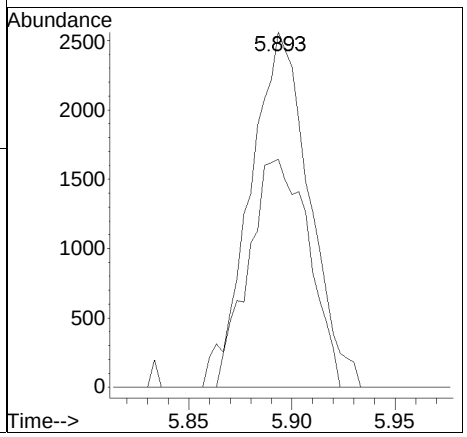


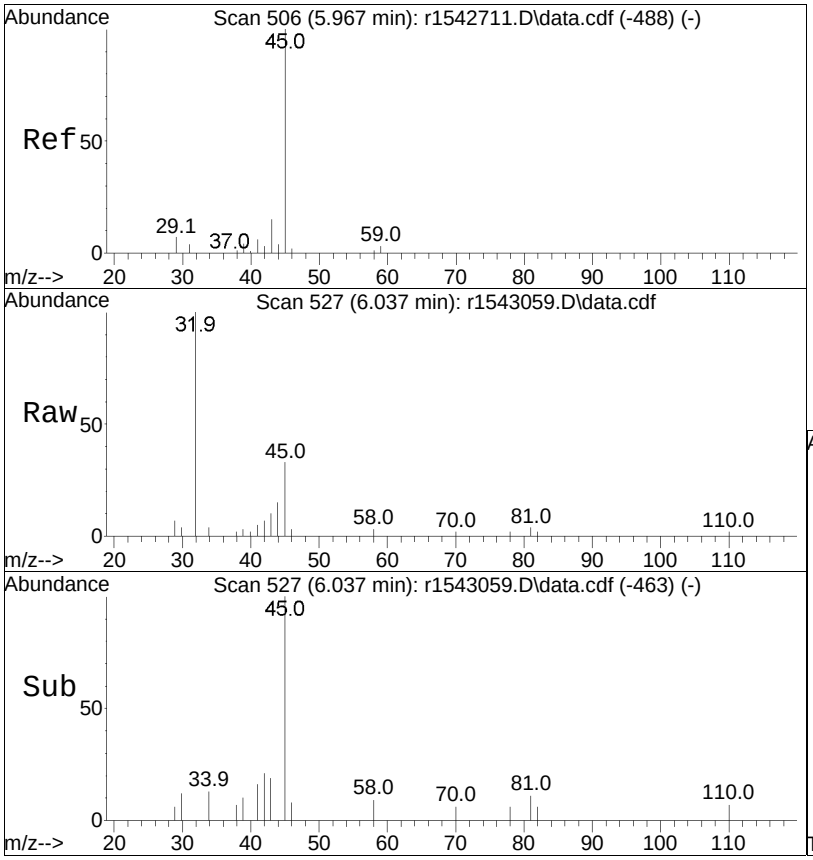


#21
trichlorofluoromethane
Concen: 0.27 ppbV
RT: 5.893 min Scan# 484
Delta R.T. -0.043 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion:101 Resp: 5122

Ion	Ratio	Lower	Upper
101	100		
103	64.2	49.4	74.0

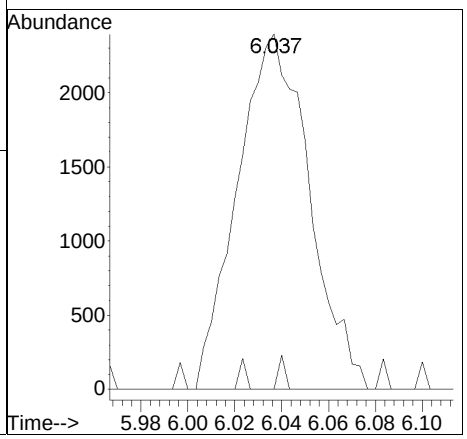


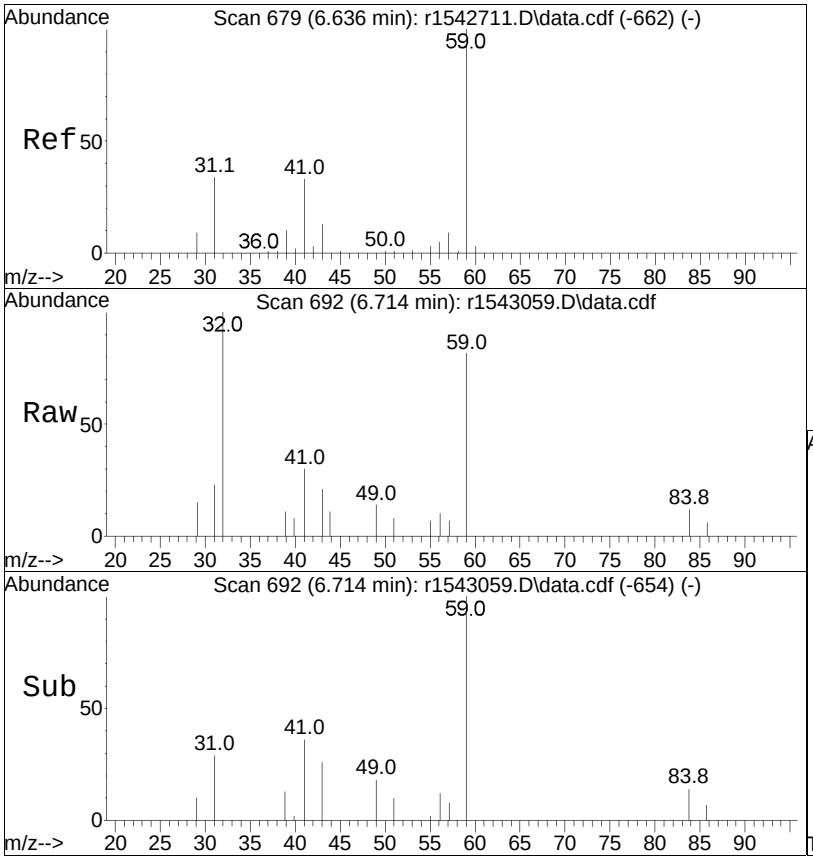


#22
isopropyl alcohol
Concen: 0.32 ppbV
RT: 6.037 min Scan# 527
Delta R.T. 0.013 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 45 Resp: 5114

Ion	Ratio	Lower	Upper
45	100		
59	0.0	4.6	6.8#

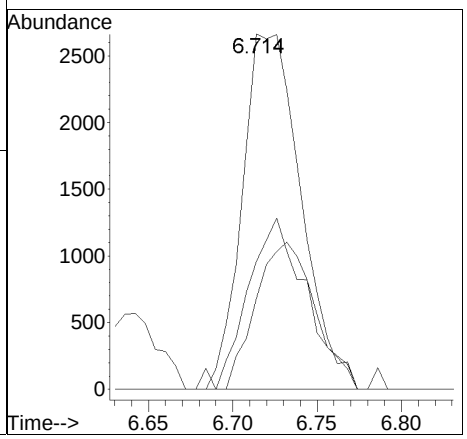


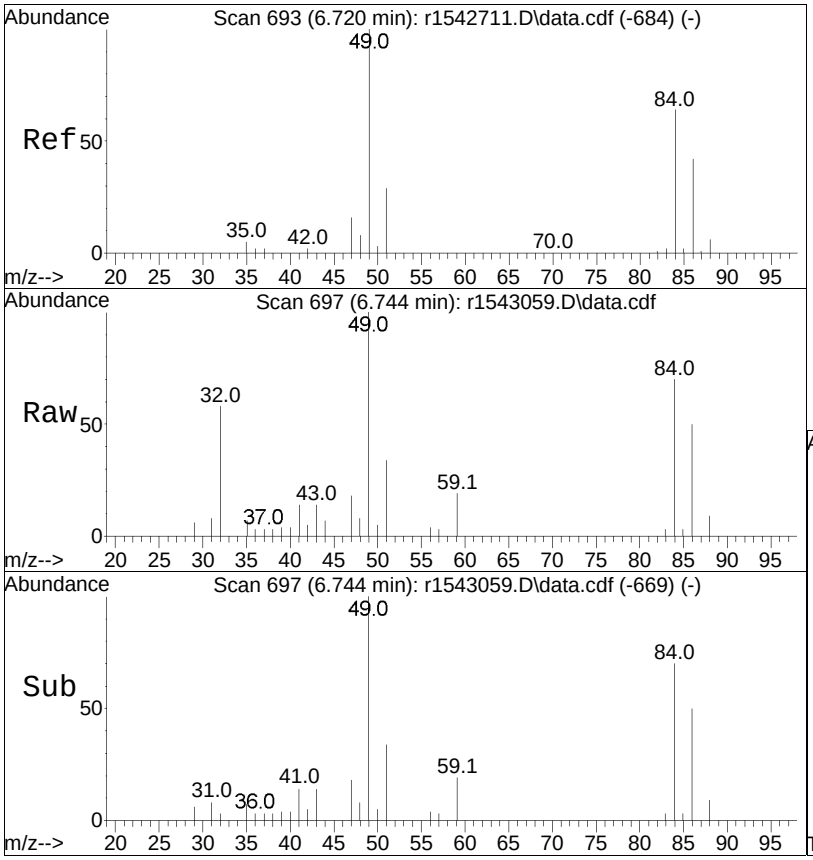


#27
tertiary butyl alcohol
Concen: 0.24 ppbV
RT: 6.714 min Scan# 692
Delta R.T. 0.026 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 59 Resp: 6450

Ion	Ratio	Lower	Upper
59	100		
41	36.0	21.0	31.4#
43	25.6	7.7	11.5#

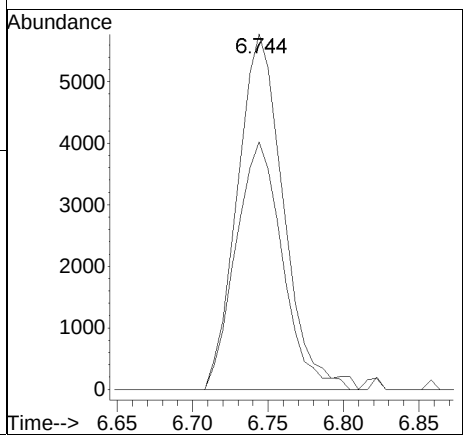


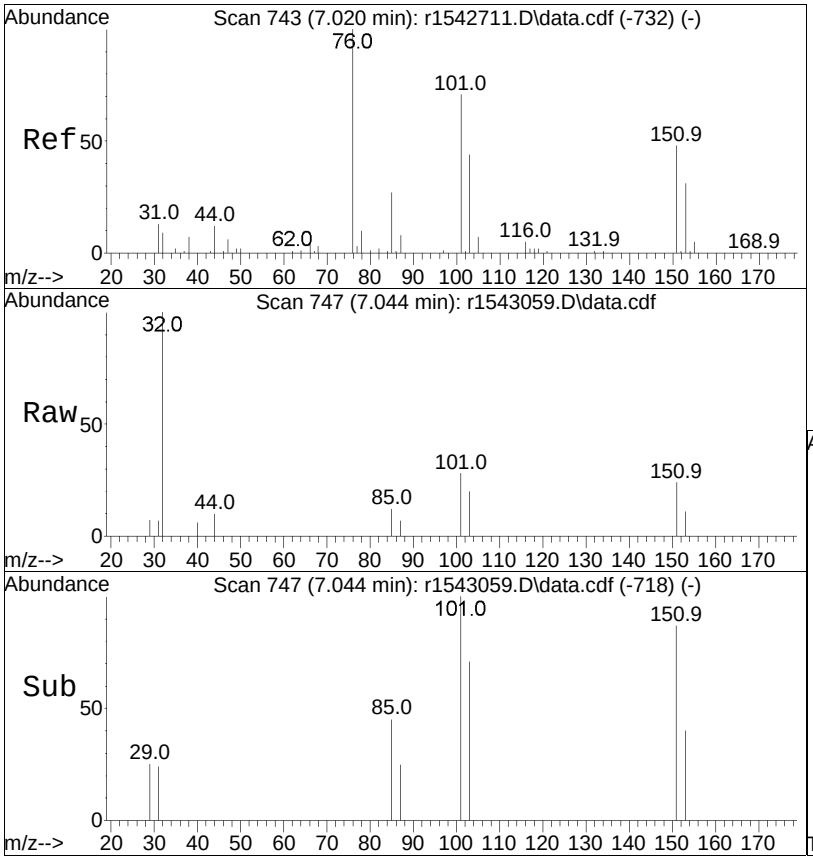


#28
methylene chloride
Concen: 0.71 ppbV
RT: 6.744 min Scan# 697
Delta R.T. -0.034 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 49 Resp: 12249

Ion	Ratio	Lower	Upper
49	100		
84	69.7	61.2	91.8

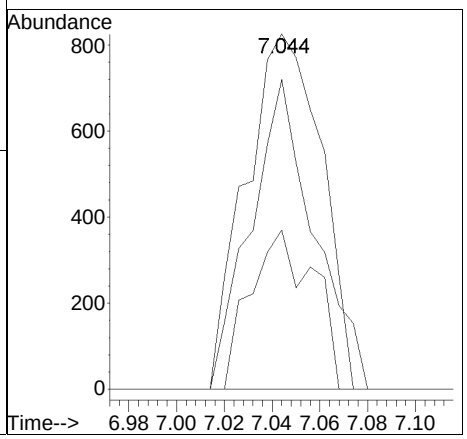


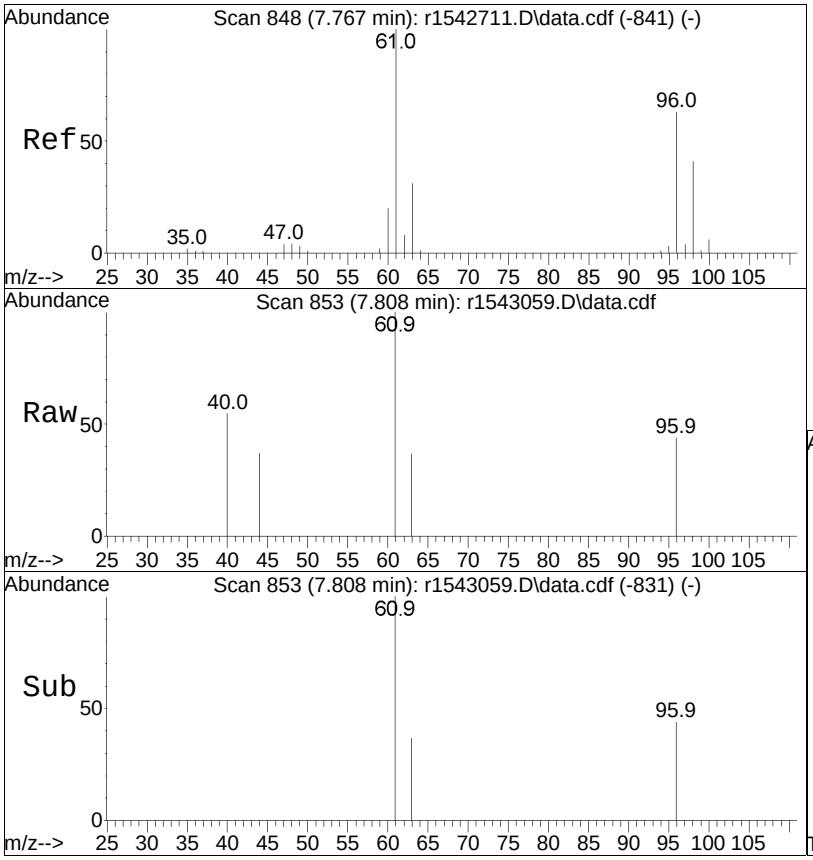


#31
Freon 113
Concen: 0.07 ppbV
RT: 7.044 min Scan# 747
Delta R.T. -0.028 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion:101 Resp: 1814

Ion	Ratio	Lower	Upper
101	100		
85	44.8	35.3	52.9
151	87.2	63.8	95.8

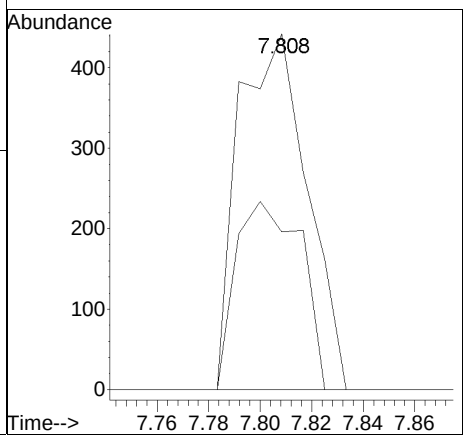


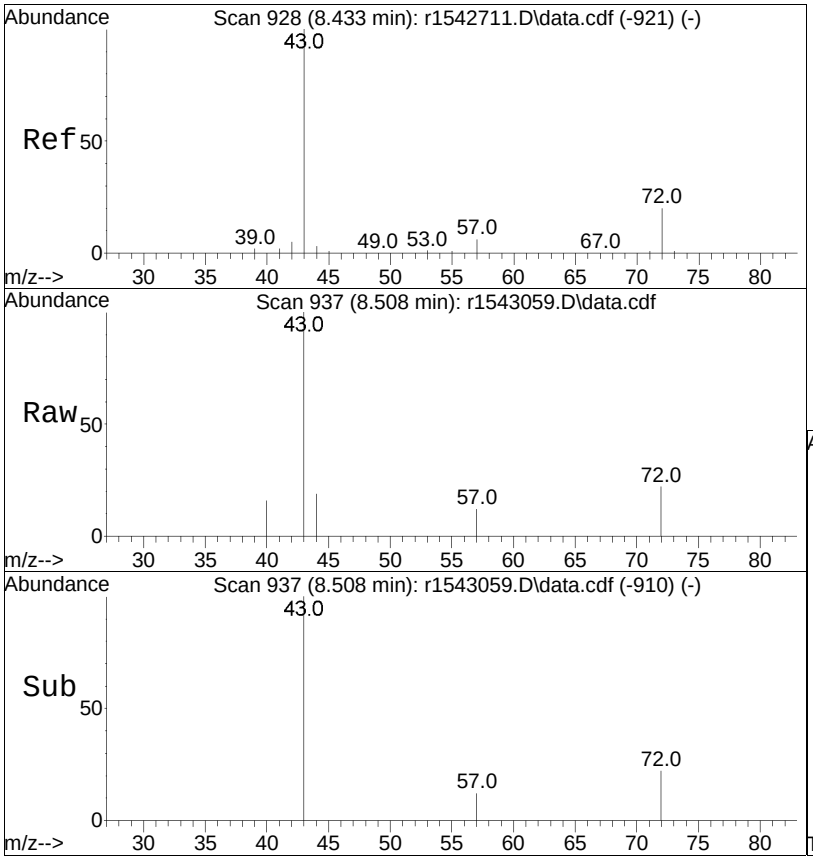


#32
trans-1,2-dichloroethene
Concen: 0.04 ppbV
RT: 7.808 min Scan# 853
Delta R.T. -0.017 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 61 Resp: 816

Ion	Ratio	Lower	Upper
61	100		
96	44.3	52.2	78.4#
98	0.0	33.0	49.4#

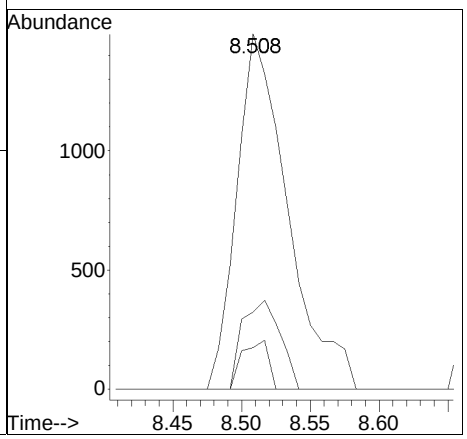


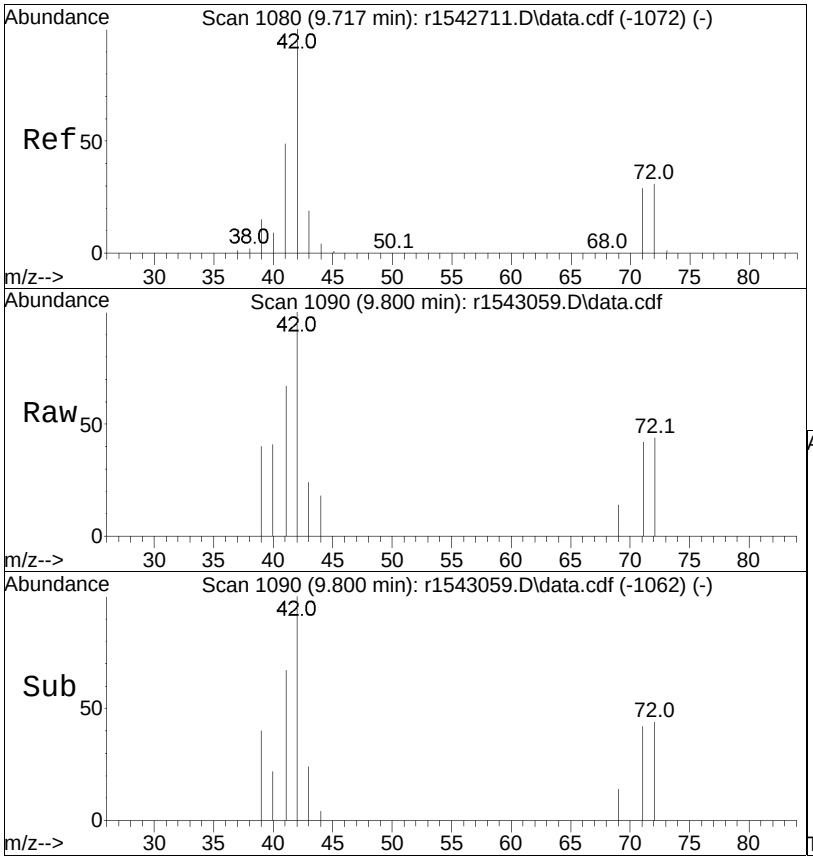


#36
2-butanone
Concen: 0.13 ppbV
RT: 8.508 min Scan# 937
Delta R.T. 0.025 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 43 Resp: 3862

Ion	Ratio	Lower	Upper
43	100		
72	21.7	21.0	31.4
57	11.7	7.1	10.7#

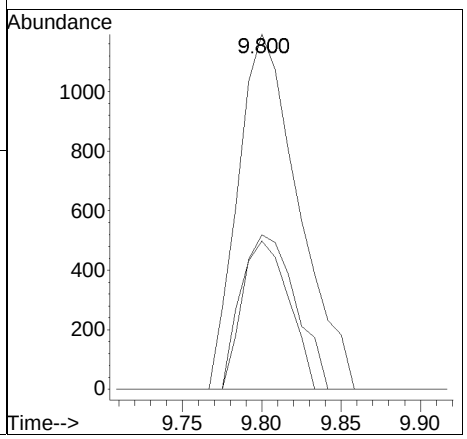


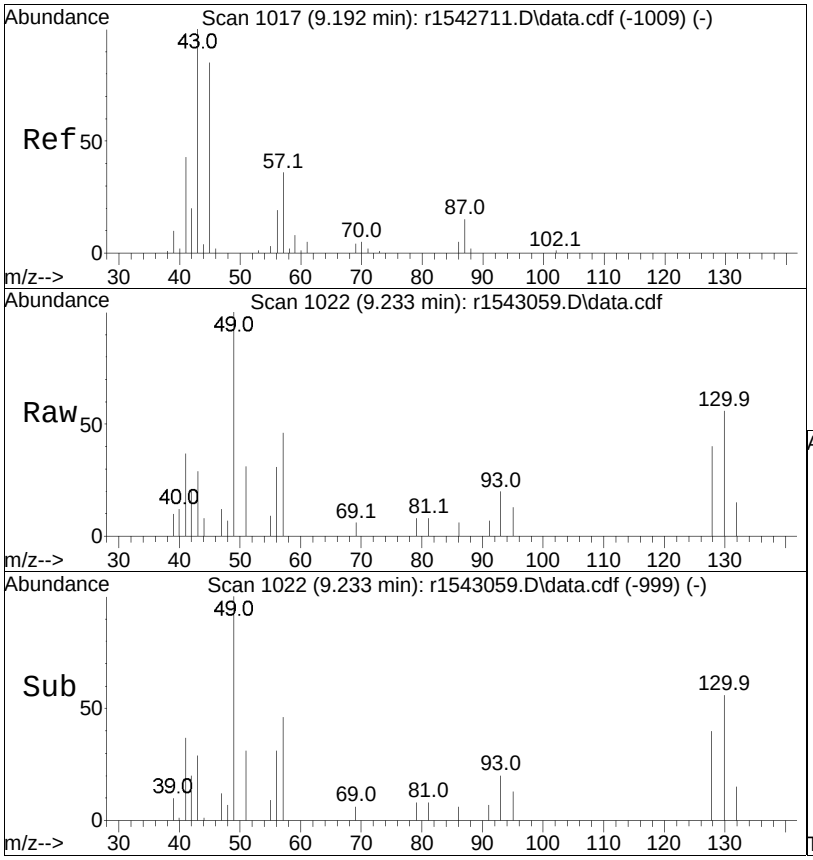


#40
Tetrahydrofuran
Concen: 0.17 ppbV
RT: 9.800 min Scan# 1090
Delta R.T. 0.033 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 42 Resp: 3171

Ion	Ratio	Lower	Upper
42	100		
71	41.7	30.6	46.0
72	43.5	32.5	48.7

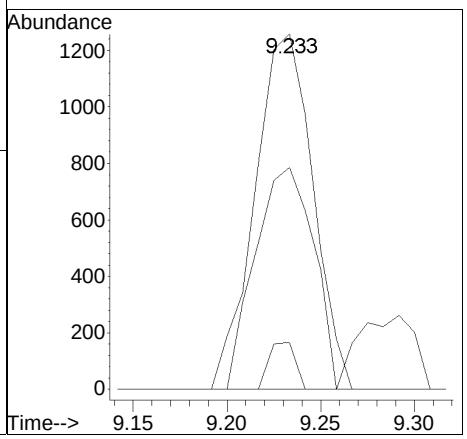


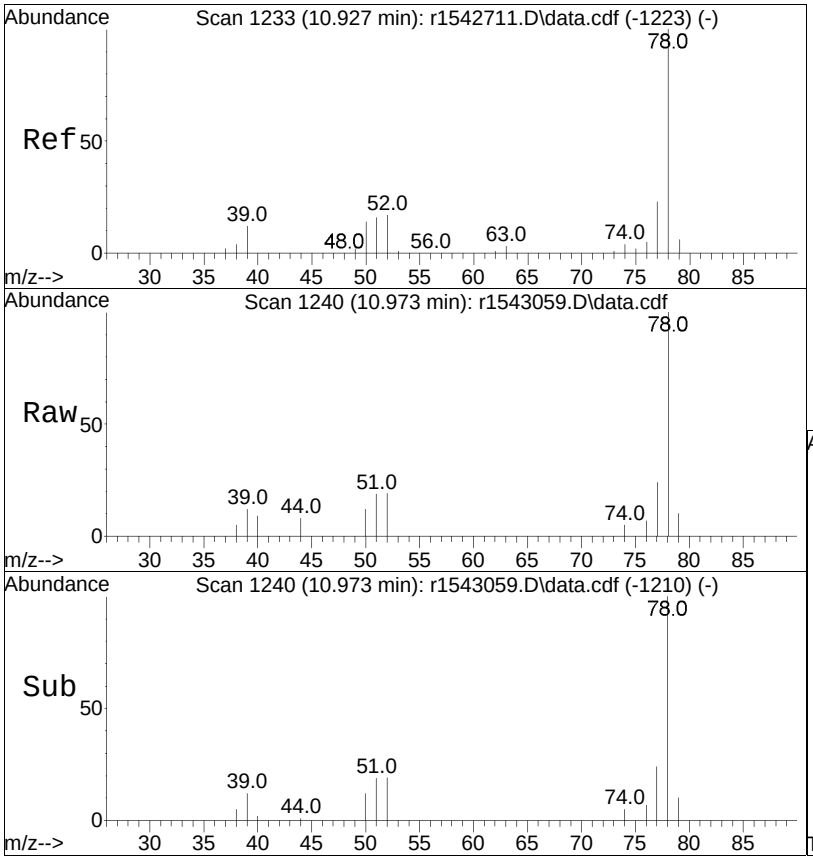


#44
hexane
Concen: 0.10 ppbV
RT: 9.233 min Scan# 1022
Delta R.T. -0.008 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 57 Resp: 2717

Ion	Ratio	Lower	Upper
57	100		
43	62.5	146.8	220.2#
86	13.2	12.7	19.1

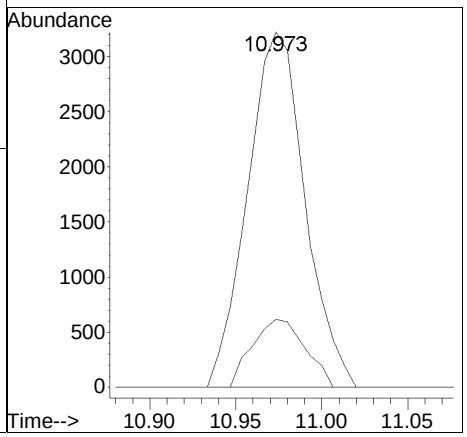


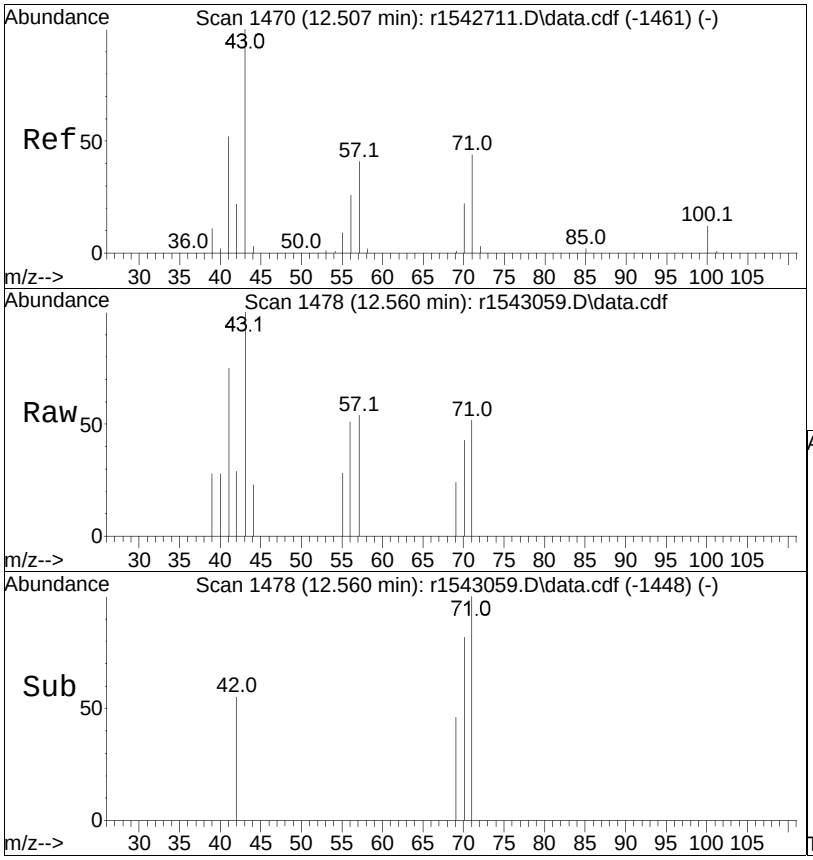


#50
benzene
Concen: 0.15 ppbV
RT: 10.973 min Scan# 1240
Delta R.T. 0.000 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 78 Resp: 7476

Ion	Ratio	Lower	Upper
78	100		
52	19.1	14.1	21.1

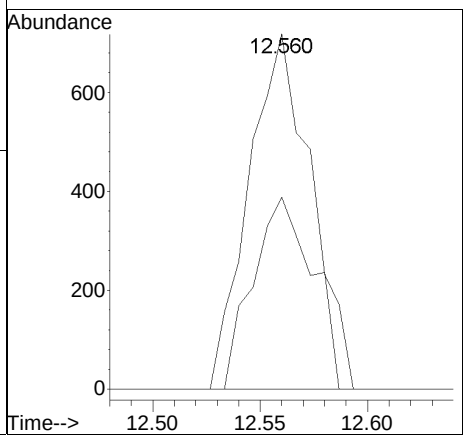


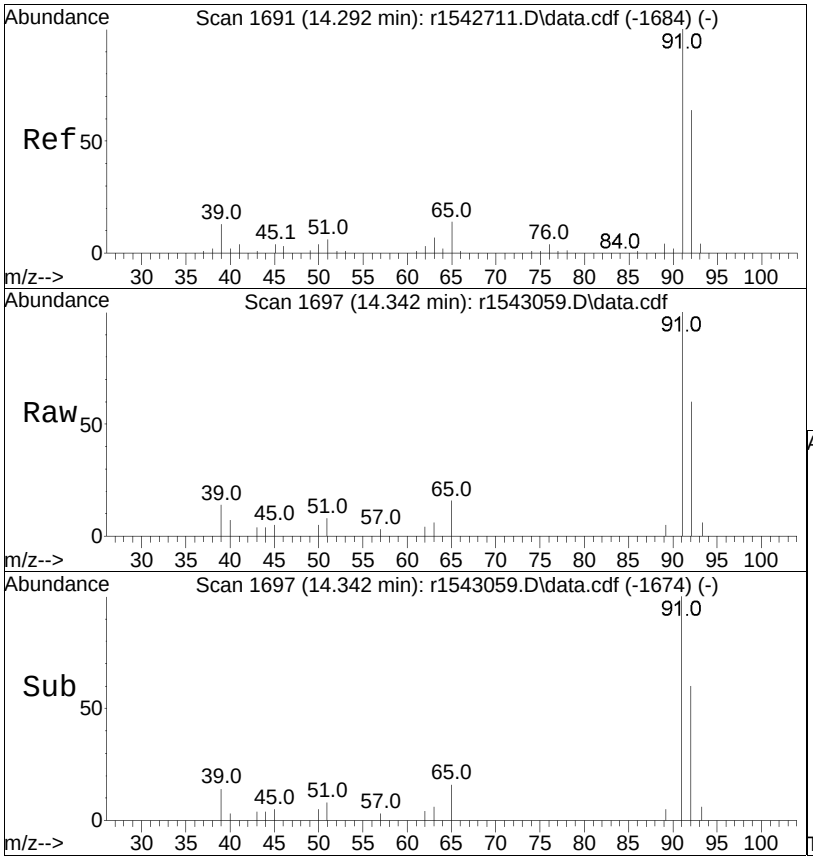


#62
heptane
Concen: 0.05 ppbV
RT: 12.560 min Scan# 1478
Delta R.T. 0.000 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 43 Resp: 1455

Ion	Ratio	Lower	Upper
43	100		
57	54.0	46.6	70.0
100	0.0	13.3	19.9#

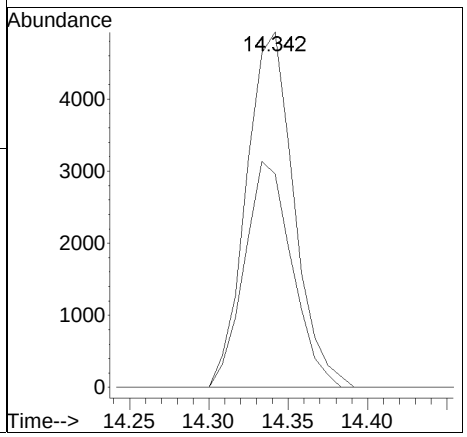


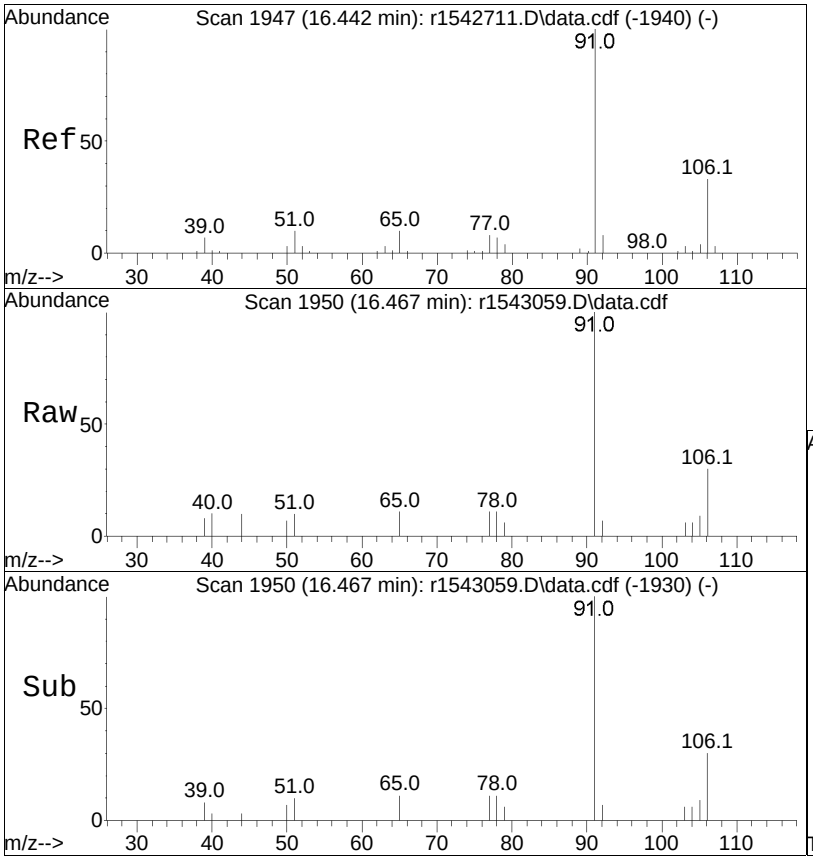


#68
toluene
Concen: 0.15 ppbV
RT: 14.342 min Scan# 1697
Delta R.T. -0.008 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 91 Resp: 10307

Ion	Ratio	Lower	Upper
91	100		
92	60.0	51.0	76.4

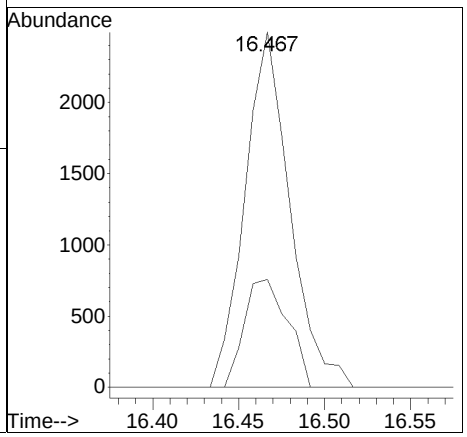


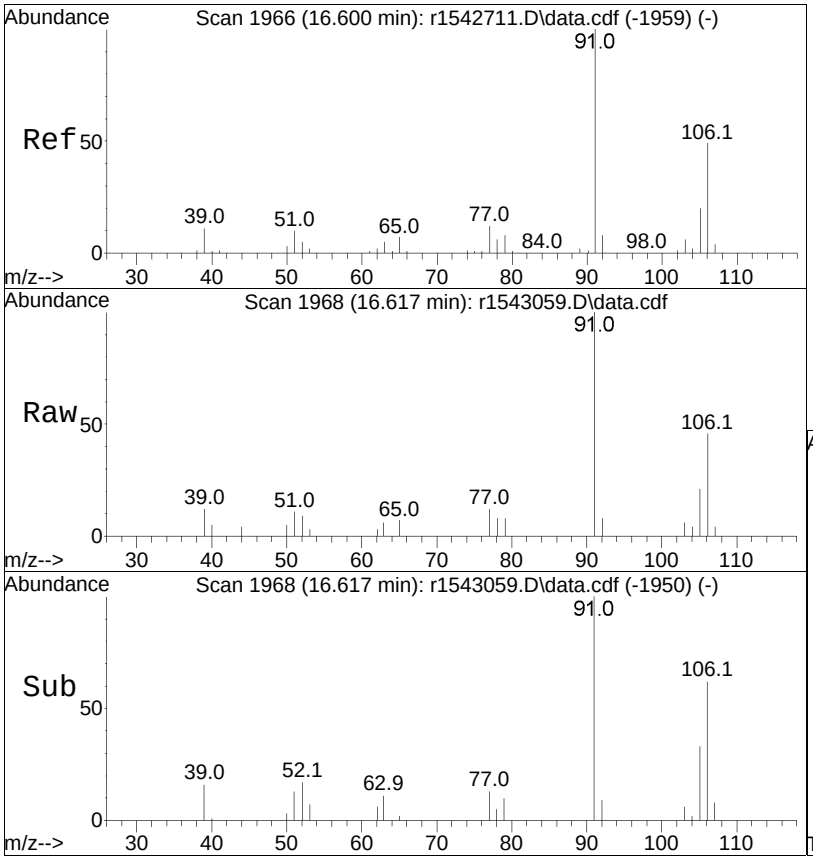


#81
ethylbenzene
Concen: 0.05 ppbV
RT: 16.467 min Scan# 1950
Delta R.T. -0.033 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 91 Resp: 4548

Ion	Ratio	Lower	Upper
91	100		
106	30.4	27.7	41.5

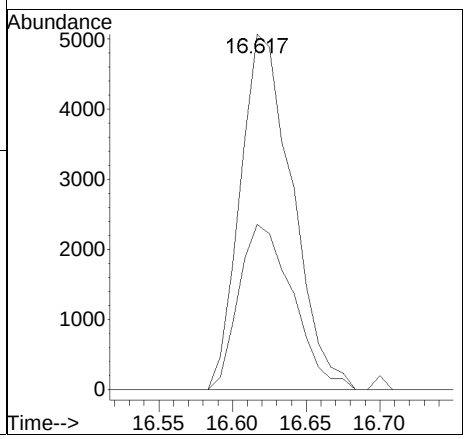


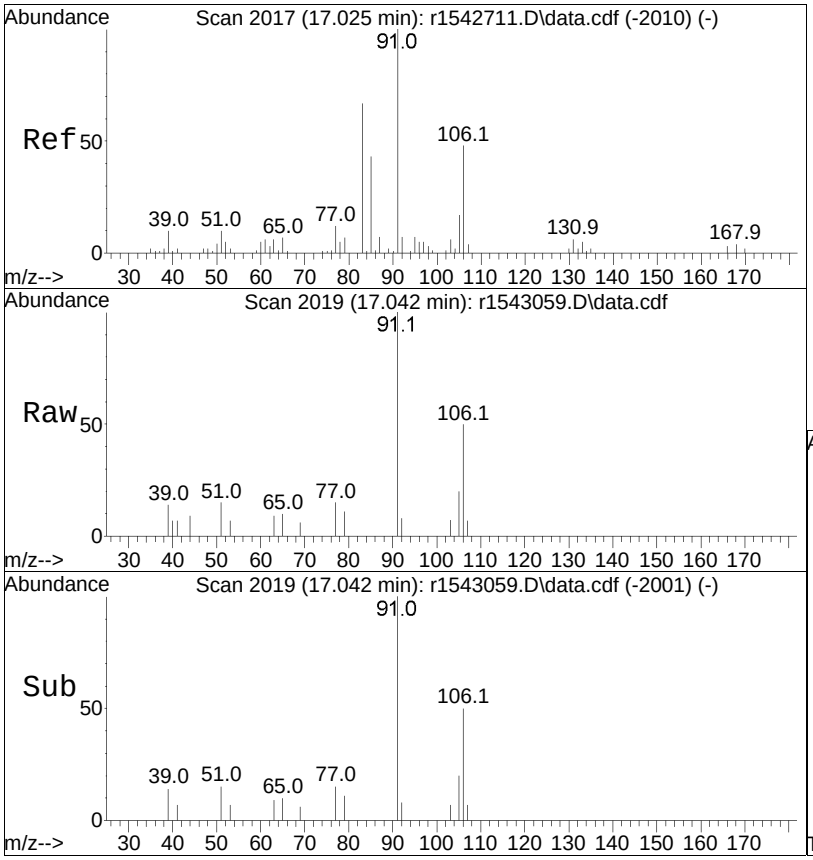


#83
m+p-xylene
Concen: 0.18 ppbV
RT: 16.617 min Scan# 1968
Delta R.T. -0.050 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 91 Resp: 12438

Ion	Ratio	Lower	Upper
91	100		
106	46.4	42.7	64.1

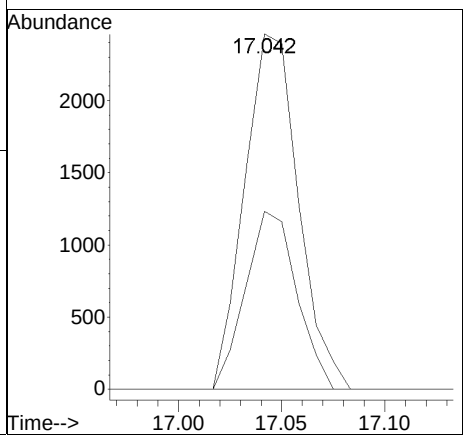


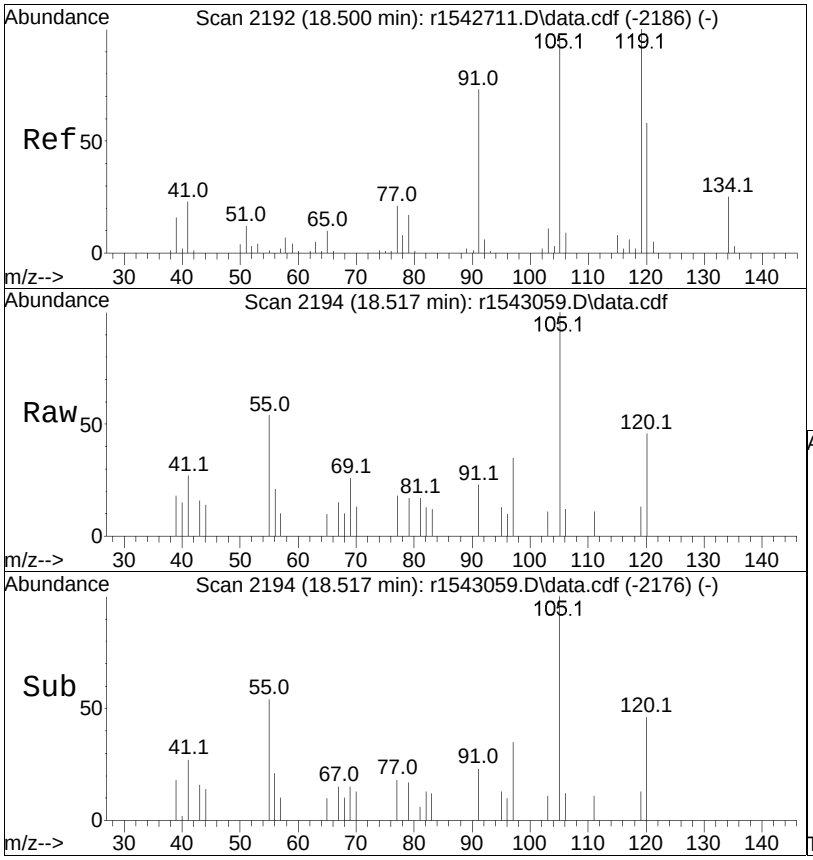


#87
o-xylene
Concen: 0.07 ppbV
RT: 17.042 min Scan# 2019
Delta R.T. -0.050 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion: 91 Resp: 4475

Ion	Ratio	Lower	Upper
91	100		
106	50.1	40.0	60.0

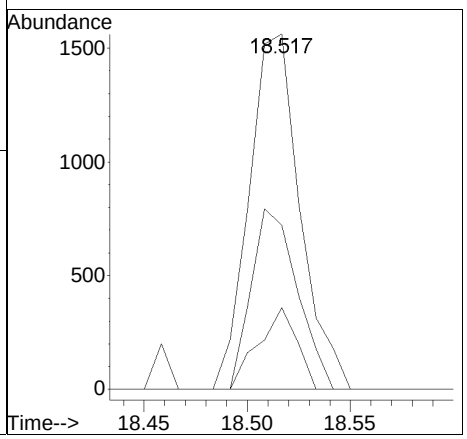




#99
1,2,4-trimethylbenzene
Concen: 0.04 ppbV
RT: 18.517 min Scan# 2194
Delta R.T. -0.050 min
Lab File: r1543059.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion:105 Resp: 2694

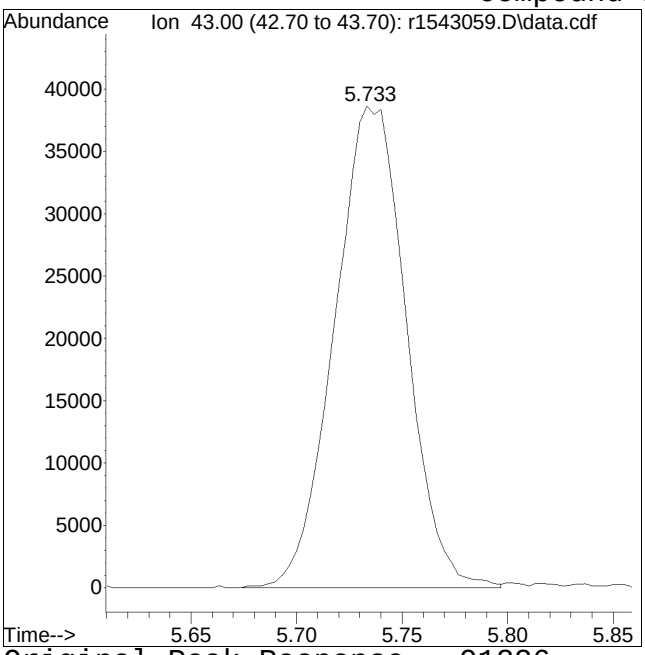
Ion	Ratio	Lower	Upper
105	100		
120	46.2	51.8	77.6#
91	23.0	58.3	87.5#



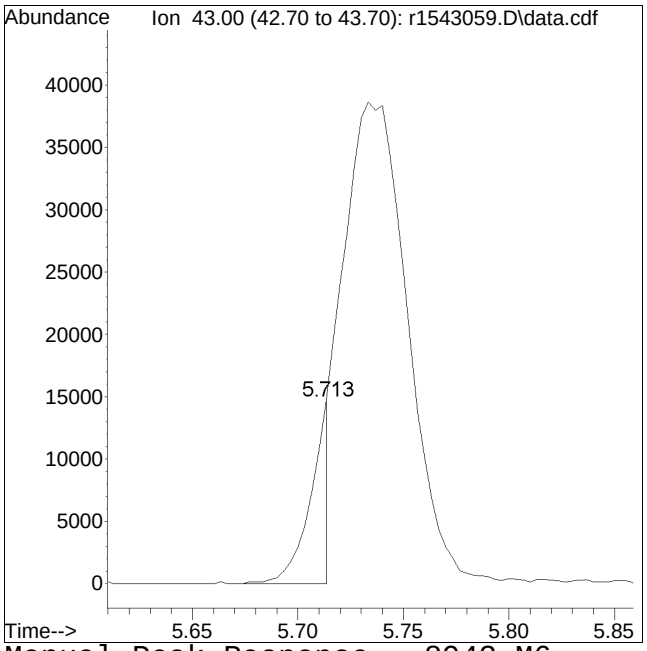
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543059.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 4 Instrument :
Sample : L2409206-08,3,250,250 Quant Date : 2/27/2024 7:22 am

Compound #19: acetone



Original Peak Response = 91226



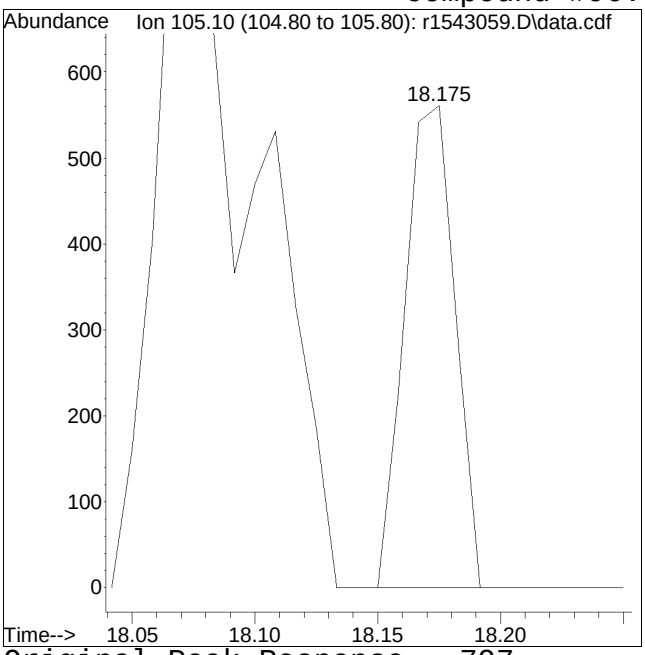
Manual Peak Response = 8943 M6

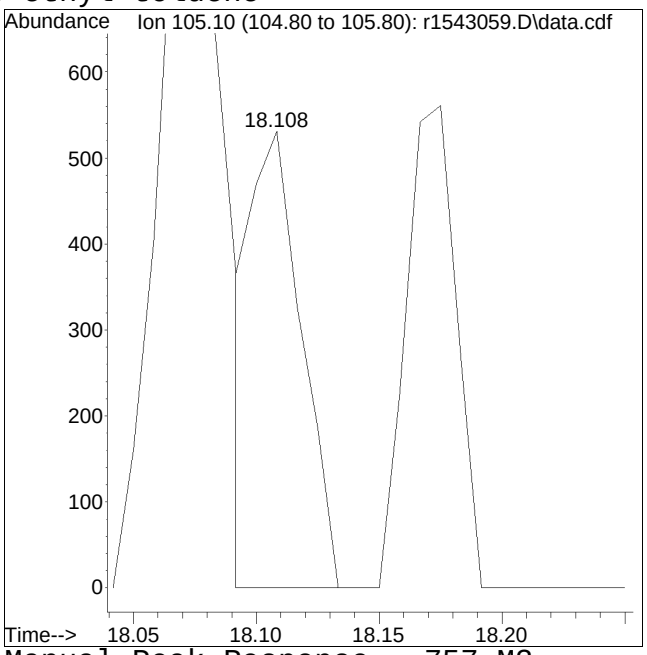
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543059.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 4 Instrument :
Sample : L2409206-08,3,250,250 Quant Date : 2/27/2024 7:22 am

Compound #96: 4-ethyl toluene





Original Peak Response = 797 Manual Peak Response = 757 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543061.D
Acq On : 27 Feb 2024 12:28 AM
Operator : AIRLAB15:KJD
Sample : L2409206-10,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:23:45 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.158	49	218194	10.000	ppbV	-0.02
Standard Area = 240397			Recovery =		90.76%	
43) 1,4-difluorobenzene	11.393	114	600317	10.000	ppbV	0.00
Standard Area = 687087			Recovery =		87.37%	
67) chlorobenzene-D5	16.075	54	116864	10.000	ppbV	-0.03
Standard Area = 126242			Recovery =		92.57%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	13619	0.548	ppbV	97
6) chloromethane	4.192	50	5716	0.612	ppbV	91
7) Freon-114	0.000		0	N.D.	d	
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	4.798	94	404	0.037	ppbV #	1
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.206	31	30394	3.702	ppbV	89
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.713	43	9446M6	0.767	ppbV	
21) trichlorofluoromethane	5.893	101	5261	0.283	ppbV	96
22) isopropyl alcohol	6.030	45	4530	0.292	ppbV #	90
27) tertiary butyl alcohol	6.714	59	5035	0.192	ppbV #	69
28) methylene chloride	6.738	49	4915	0.292	ppbV	95
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.056		0	N.D.		
31) Freon 113	7.050	101	2570	0.106	ppbV #	86
32) trans-1,2-dichloroethene	7.800	61	938	0.044	ppbV #	71
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.508	43	3478	0.120	ppbV #	90
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.308		0	N.D.		
40) Tetrahydrofuran	9.800	42	2868	0.158	ppbV #	89
42) 1,2-dichloroethane	0.000		0	N.D.	d	
44) hexane	9.225	57	2563	0.098	ppbV #	17
50) benzene	10.973	78	7696	0.158	ppbV	100
53) cyclohexane	11.287		0	N.D.		
56) 1,2-dichloropropane	11.927		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543061.D
Acq On : 27 Feb 2024 12:28 AM
Operator : AIRLAB15:KJD
Sample : L2409206-10,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:23:45 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

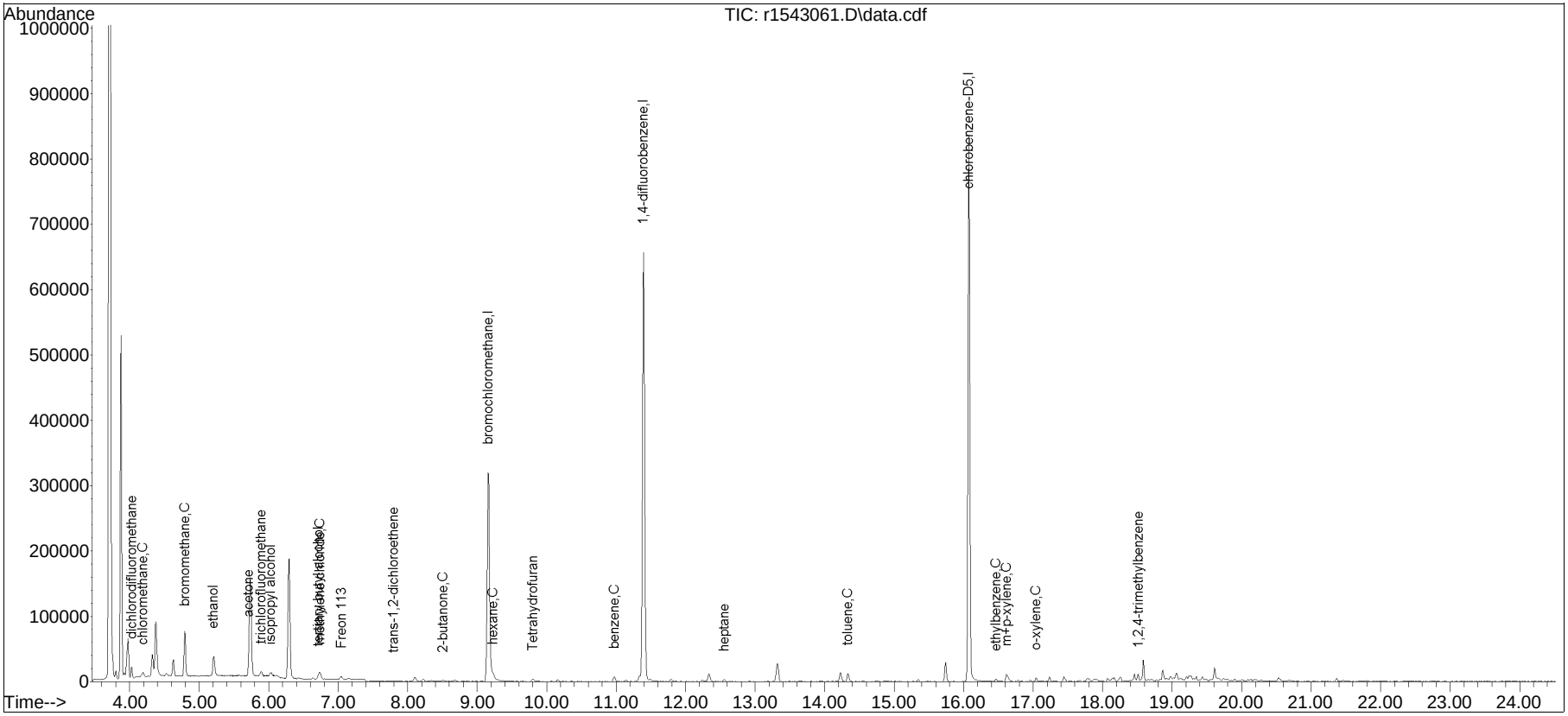
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.			
58)	1,4-dioxane	0.000		0	N.D.			
60)	2,2,4-trimethylpentane	12.240		0	N.D.			
62)	heptane	12.553	43	1445	0.050	ppbV	#	90
63)	cis-1,3-dichloropropene	0.000		0	N.D.			
64)	4-methyl-2-pentanone	0.000		0	N.D.	d		
65)	trans-1,3-dichloropropene	0.000		0	N.D.			
66)	1,1,2-trichloroethane	0.000		0	N.D.			
68)	toluene	14.333	91	9828	0.147	ppbV		91
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	16.467	91	3536	0.041	ppbV		96
83)	m+p-xylene	16.617	91	9528	0.141	ppbV		97
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.958		0	N.D.			
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.	d		
87)	o-xylene	17.042	91	3521	0.052	ppbV		92
96)	4-ethyl toluene	18.108		0	N.D.			
97)	1,3,5-trimethylbenzene	18.175		0	N.D.			
99)	1,2,4-trimethylbenzene	18.517	105	2653	0.035	ppbV	#	57
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.			

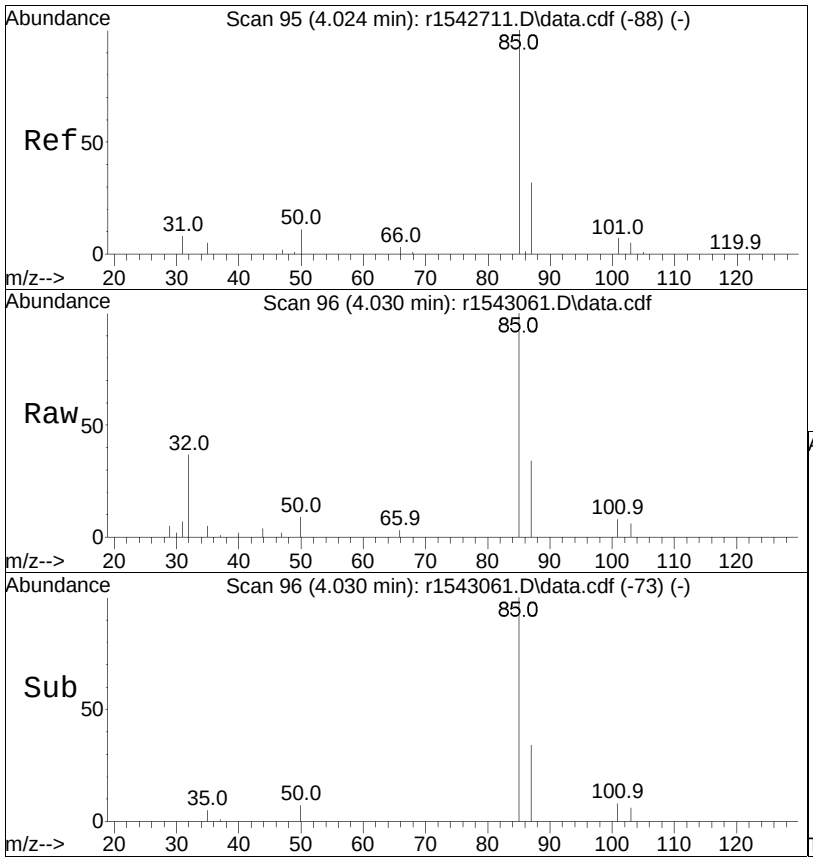
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab15\2024\02\0226T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543061.D
Acq On : 27 Feb 2024 12:28 AM
Operator : AIRLAB15:KJD
Sample : L2409206-10,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:23:45 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

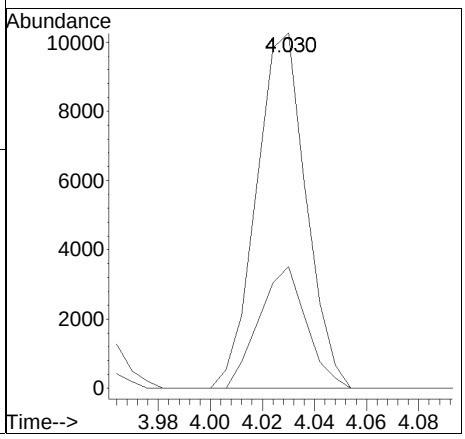


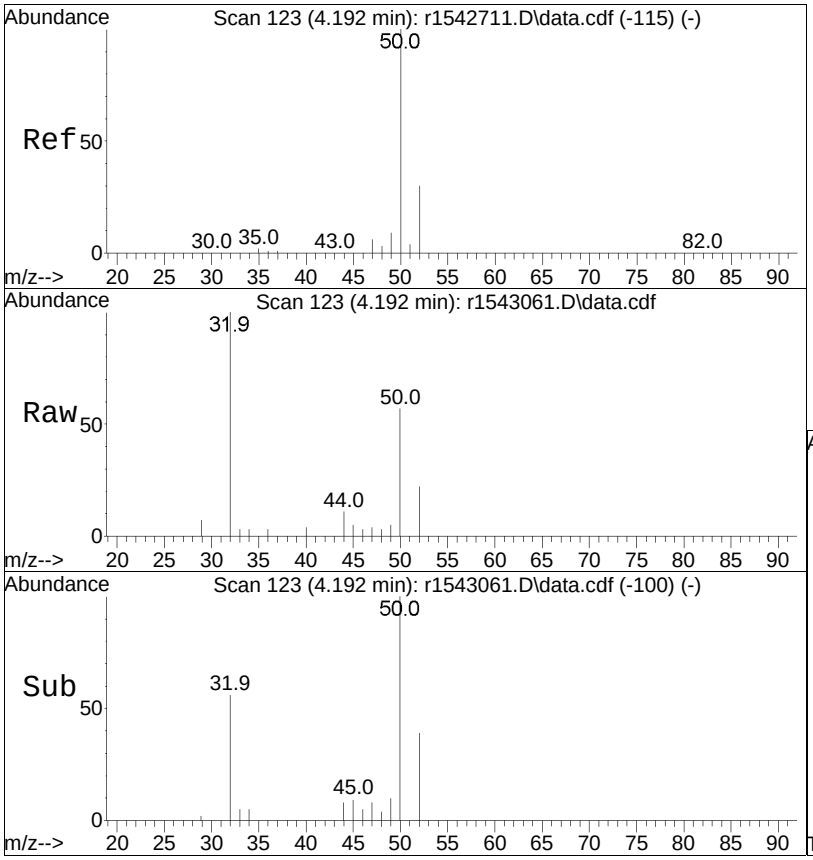


#5
dichlorodifluoromethane
Concen: 0.55 ppbV
RT: 4.030 min Scan# 96
Delta R.T. -0.064 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 85 Resp: 13619

Ion	Ratio	Lower	Upper
85	100		
87	34.3	26.1	39.1

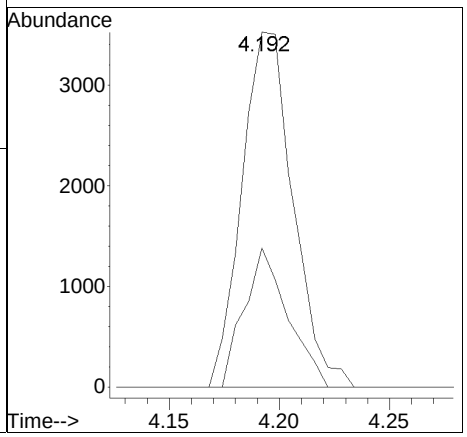


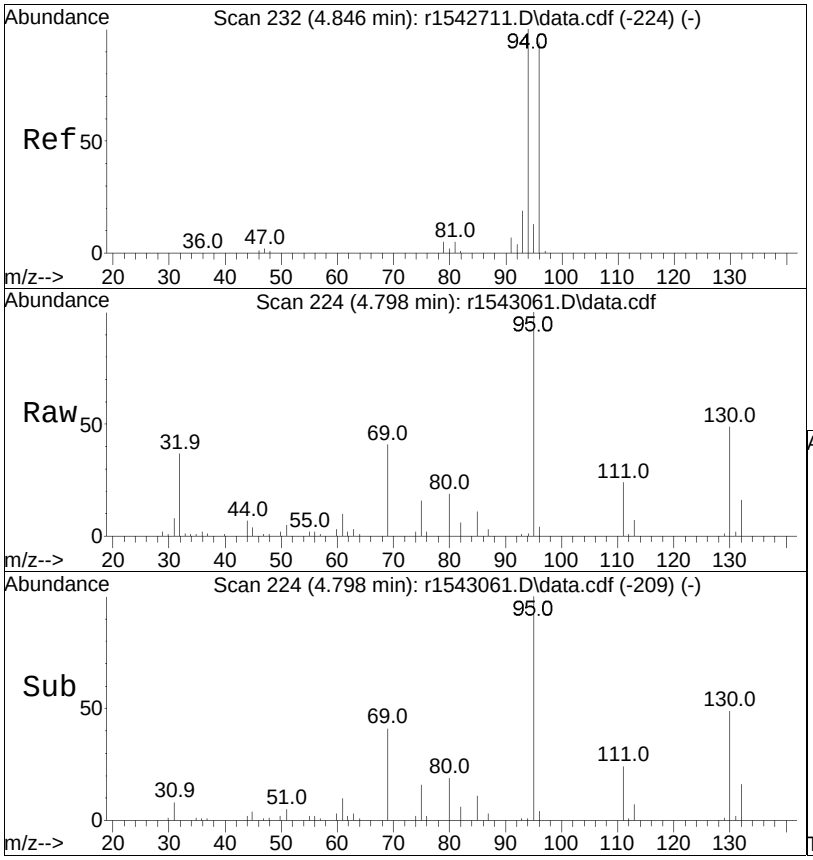


#6
chloromethane
Concen: 0.61 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.064 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 50 Resp: 5716

Ion	Ratio	Lower	Upper
50	100		
52	39.2	27.4	41.2

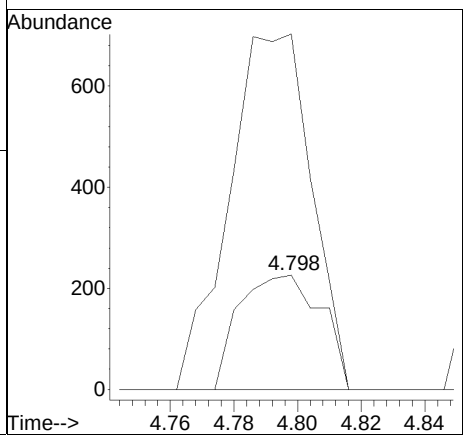


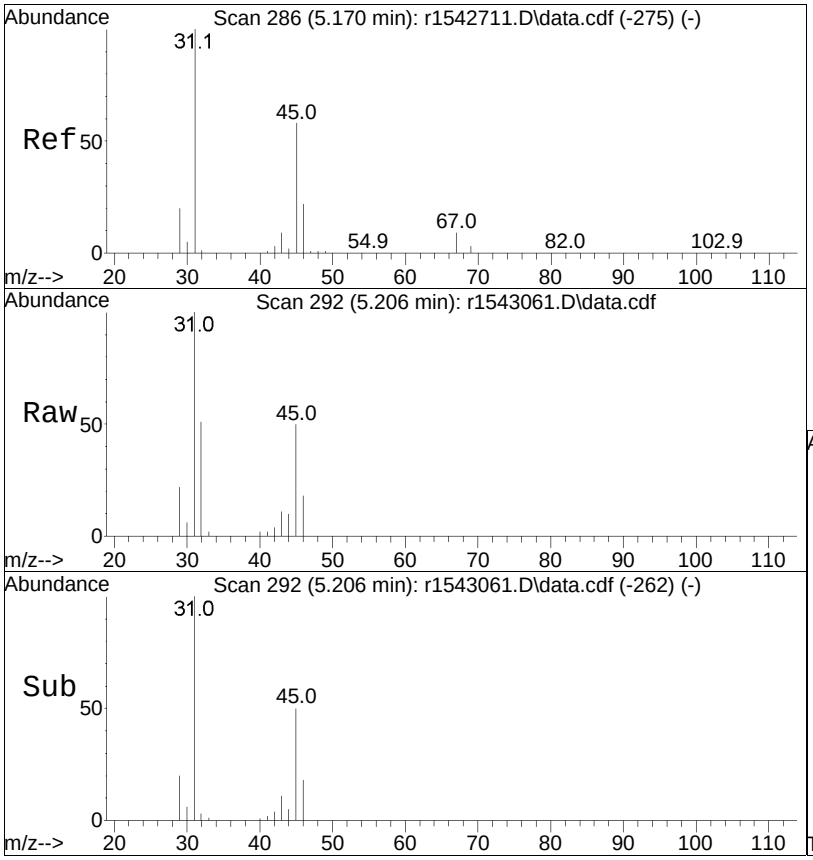


#13
bromomethane
Concen: 0.04 ppbV
RT: 4.798 min Scan# 224
Delta R.T. -0.112 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 94 Resp: 404

Ion	Ratio	Lower	Upper
94	100		
96	311.1	75.4	113.2#

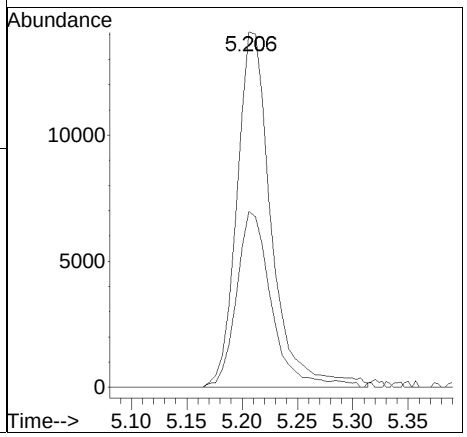


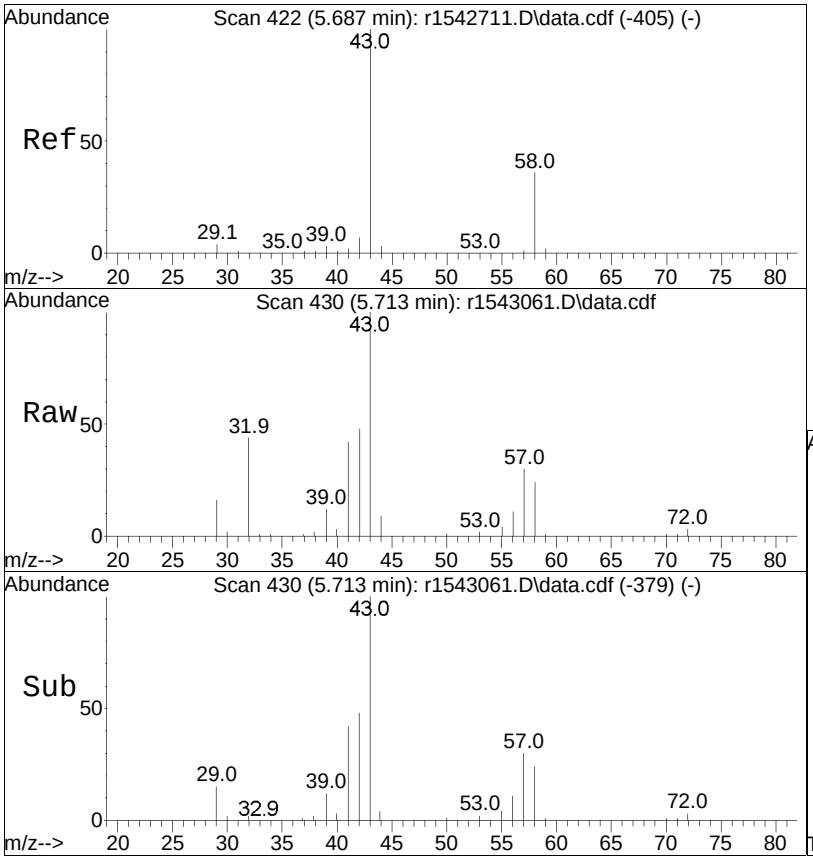


#15
ethanol
Concen: 3.70 ppbV
RT: 5.206 min Scan# 292
Delta R.T. -0.022 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 31 Resp: 30394

Ion	Ratio	Lower	Upper
31	100		
45	49.5	34.2	51.2

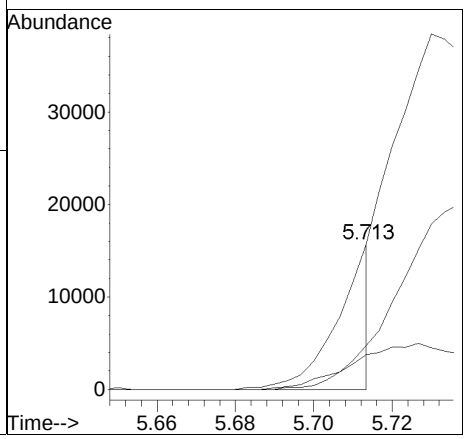


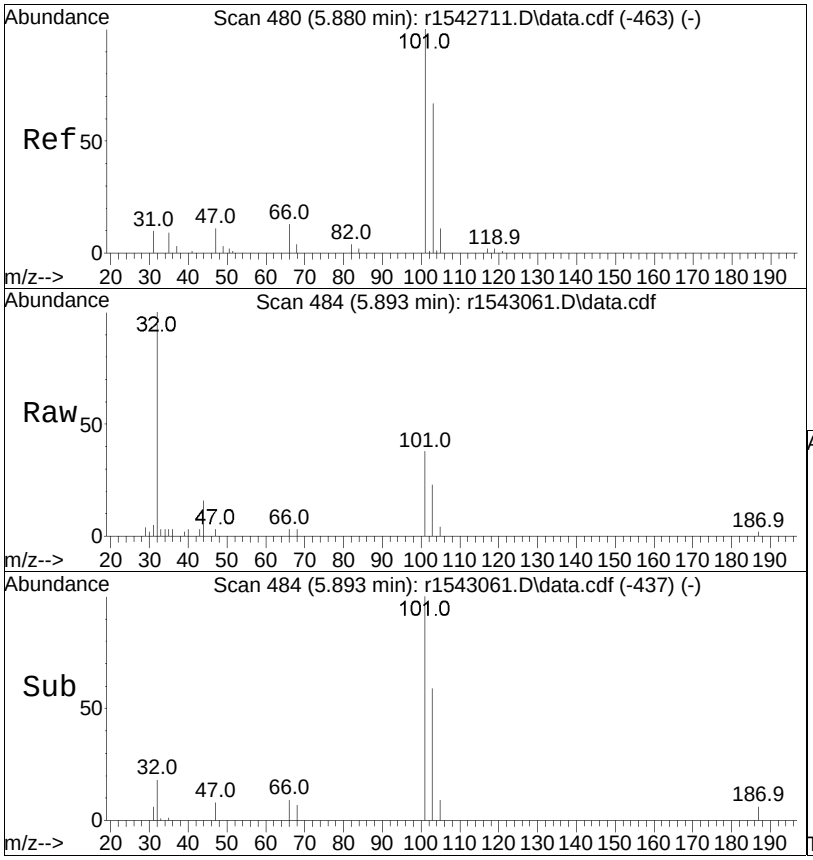


#19
acetone
Concen: 0.77 ppbV m
RT: 5.713 min Scan# 430
Delta R.T. -0.030 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 43 Resp: 9446

Ion	Ratio	Lower	Upper
43	100		
58	23.9	39.0	58.4#
57	30.2	0.9	1.3#

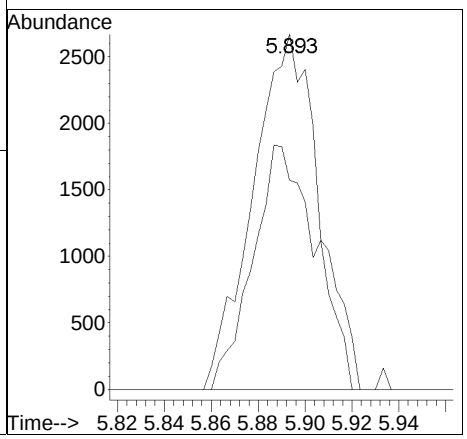


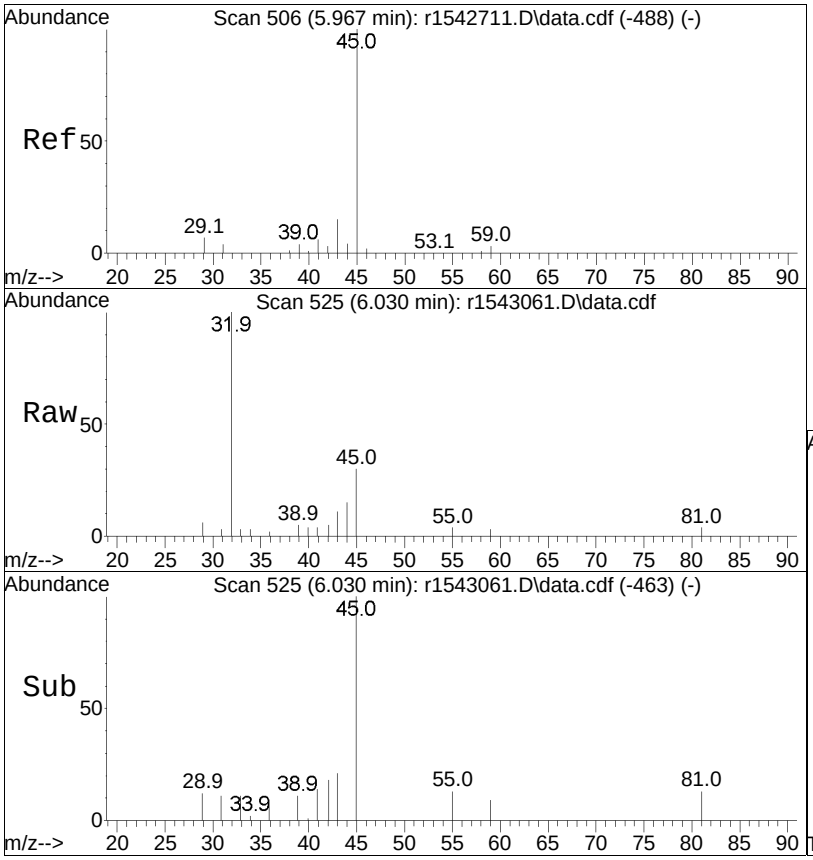


#21
trichlorofluoromethane
Concen: 0.28 ppbV
RT: 5.893 min Scan# 484
Delta R.T. -0.043 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion:101 Resp: 5261

Ion	Ratio	Lower	Upper
101	100		
103	58.9	49.4	74.0

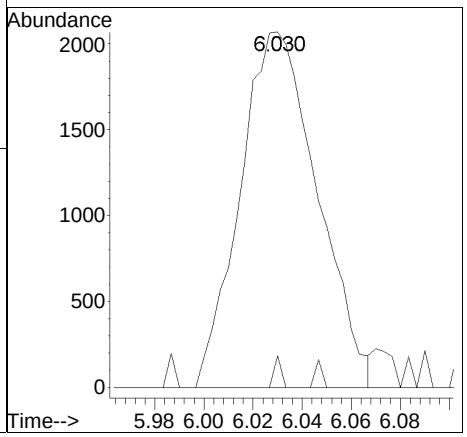


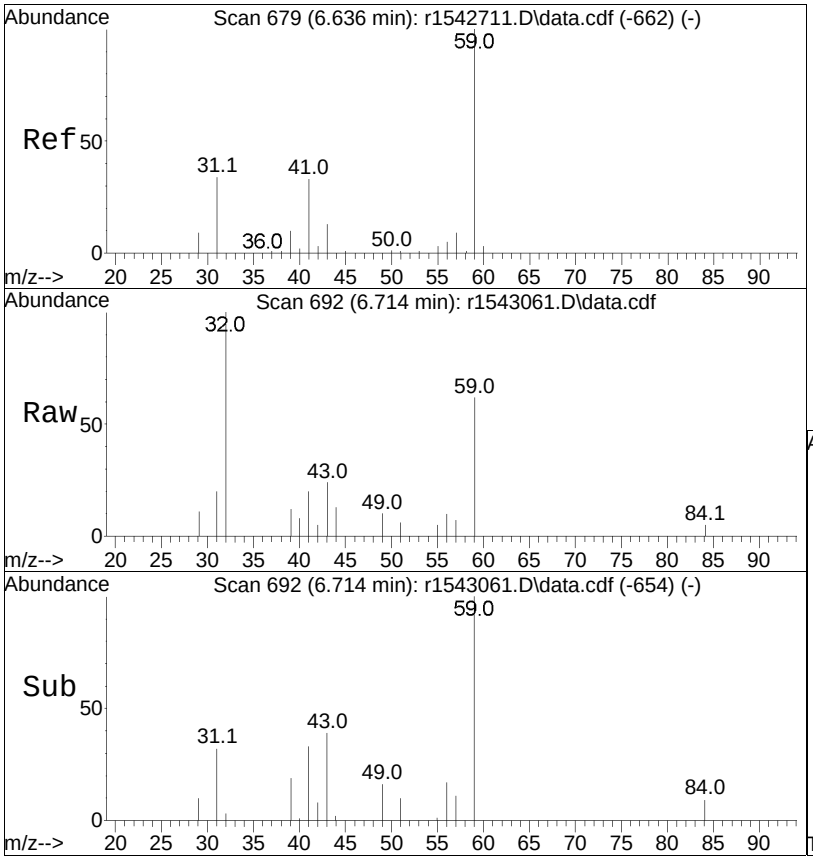


#22
isopropyl alcohol
Concen: 0.29 ppbV
RT: 6.030 min Scan# 525
Delta R.T. 0.007 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 45 Resp: 4530

Ion	Ratio	Lower	Upper
45	100		
59	8.9	4.6	6.8#

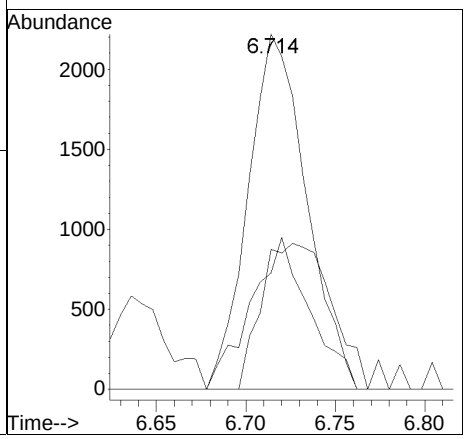


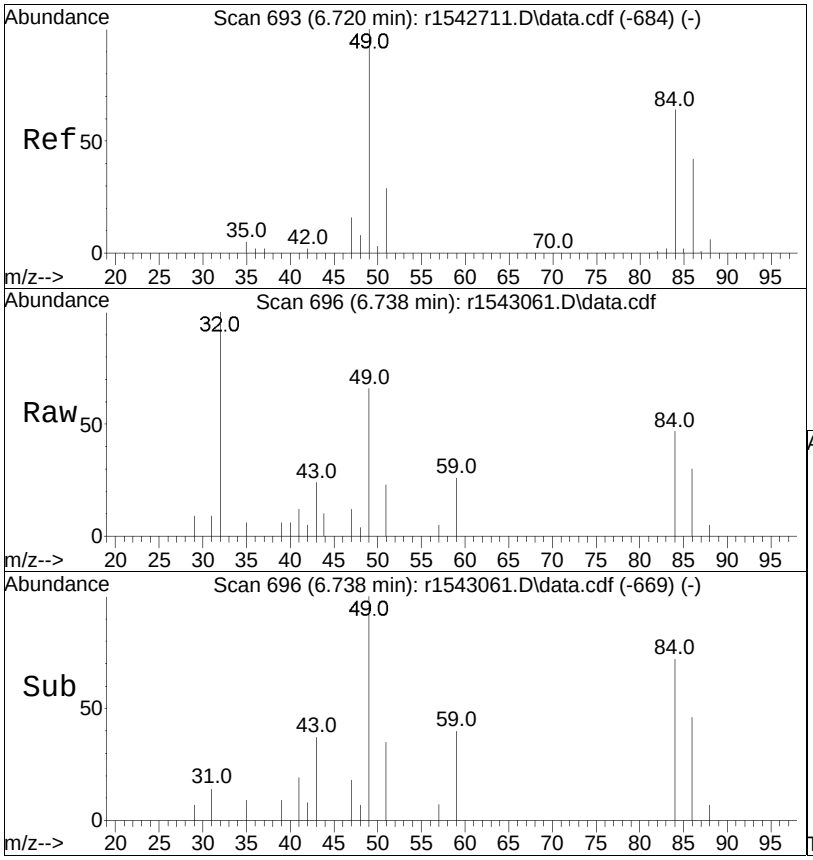


#27
tertiary butyl alcohol
Concen: 0.19 ppbV
RT: 6.714 min Scan# 692
Delta R.T. 0.026 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 59 Resp: 5035

Ion	Ratio	Lower	Upper
59	100		
41	32.7	21.0	31.4#
43	39.4	7.7	11.5#

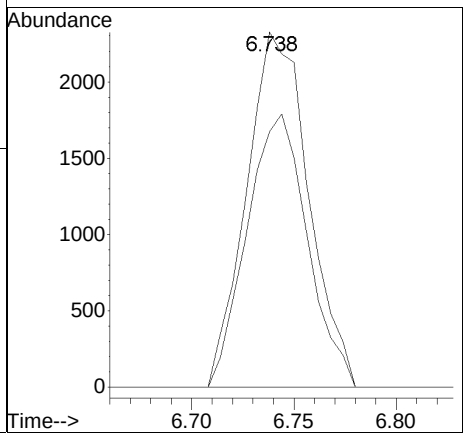


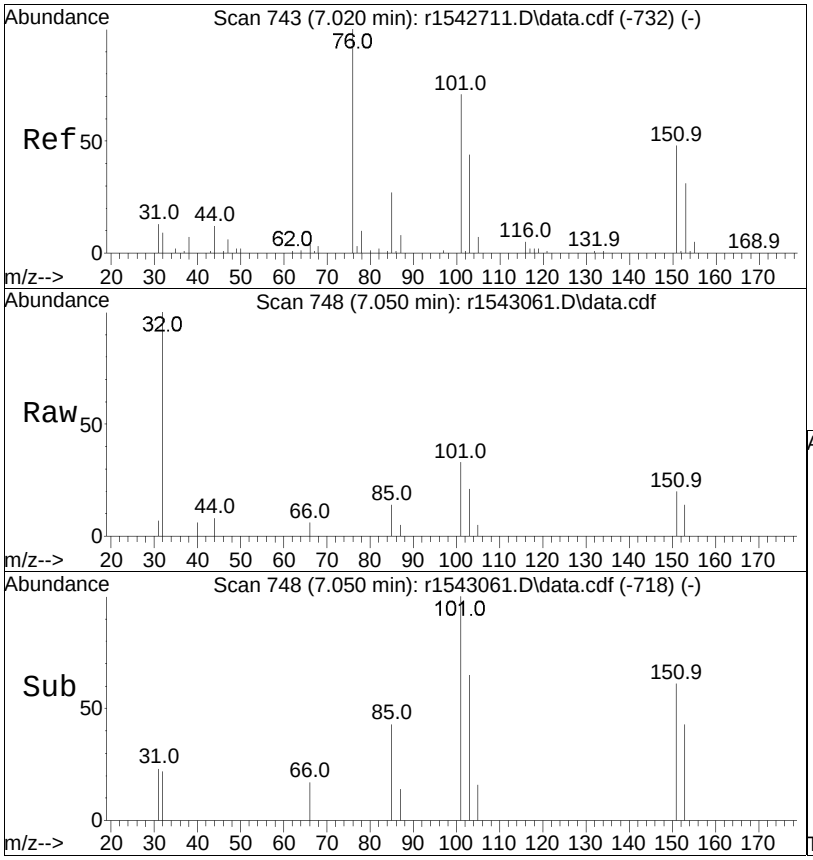


#28
methylene chloride
Concen: 0.29 ppbV
RT: 6.738 min Scan# 696
Delta R.T. -0.040 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 49 Resp: 4915

Ion	Ratio	Lower	Upper
49	100		
84	71.9	61.2	91.8

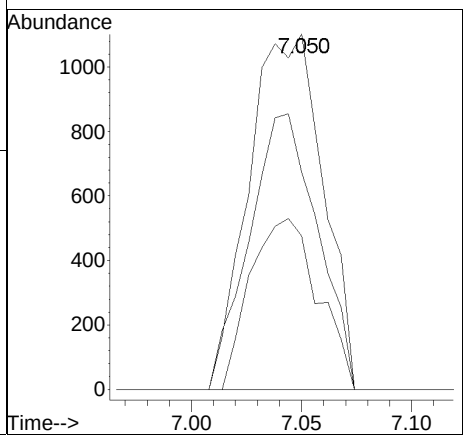


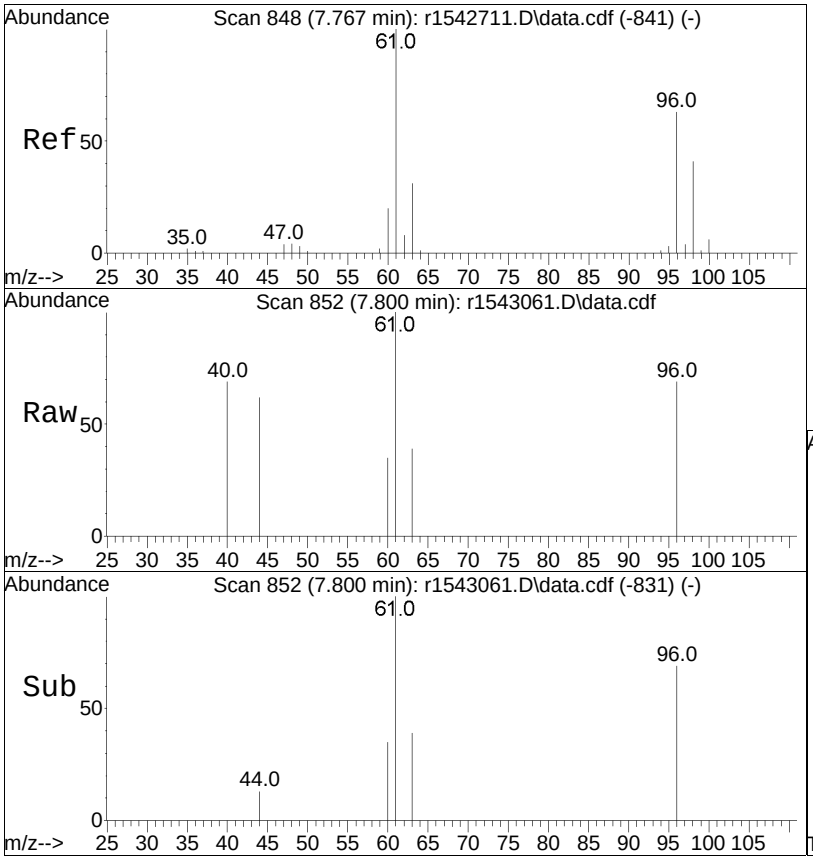


#31
Freon 113
Concen: 0.11 ppbV
RT: 7.050 min Scan# 748
Delta R.T. -0.022 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion:101 Resp: 2570

Ion	Ratio	Lower	Upper
101	100		
85	43.2	35.3	52.9
151	61.2	63.8	95.8#

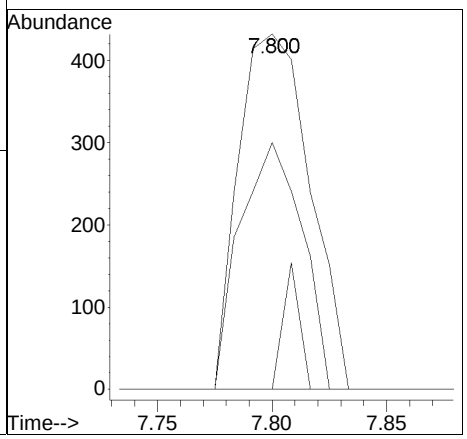


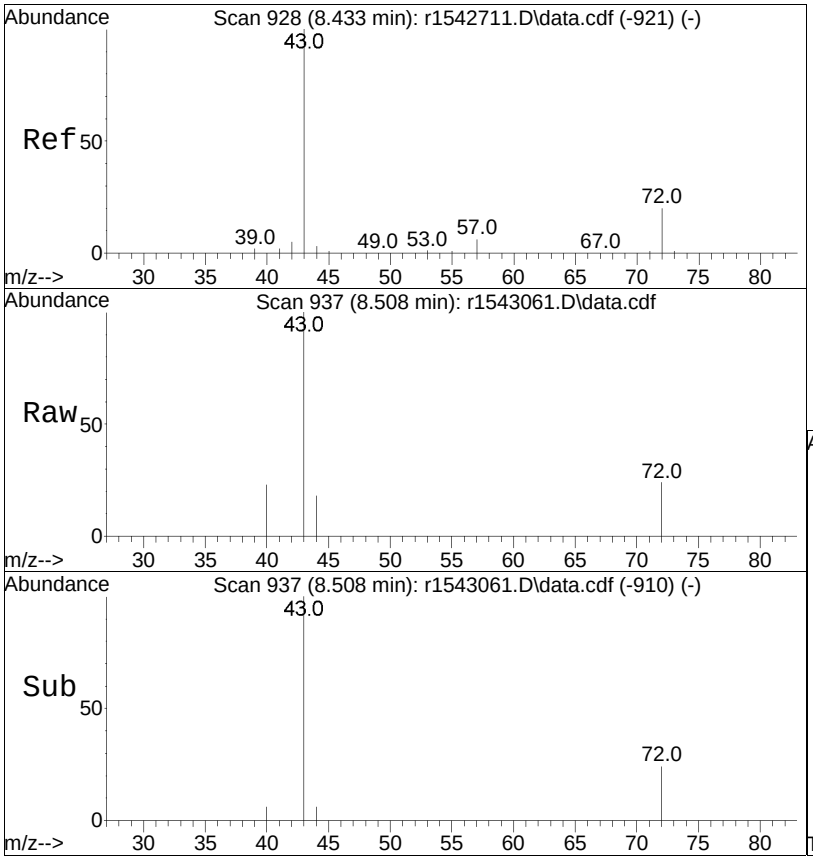


#32
trans-1,2-dichloroethene
Concen: 0.04 ppbV
RT: 7.800 min Scan# 852
Delta R.T. -0.025 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 61 Resp: 938

Ion	Ratio	Lower	Upper
61	100		
96	69.4	52.2	78.4
98	0.0	33.0	49.4#

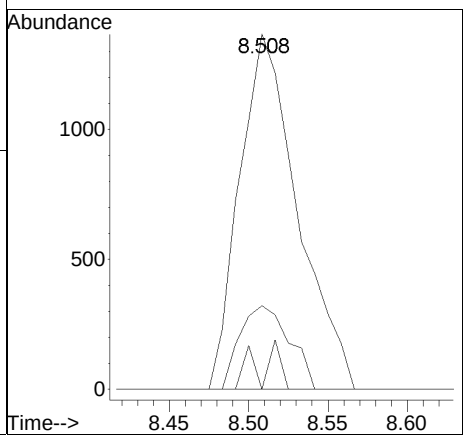


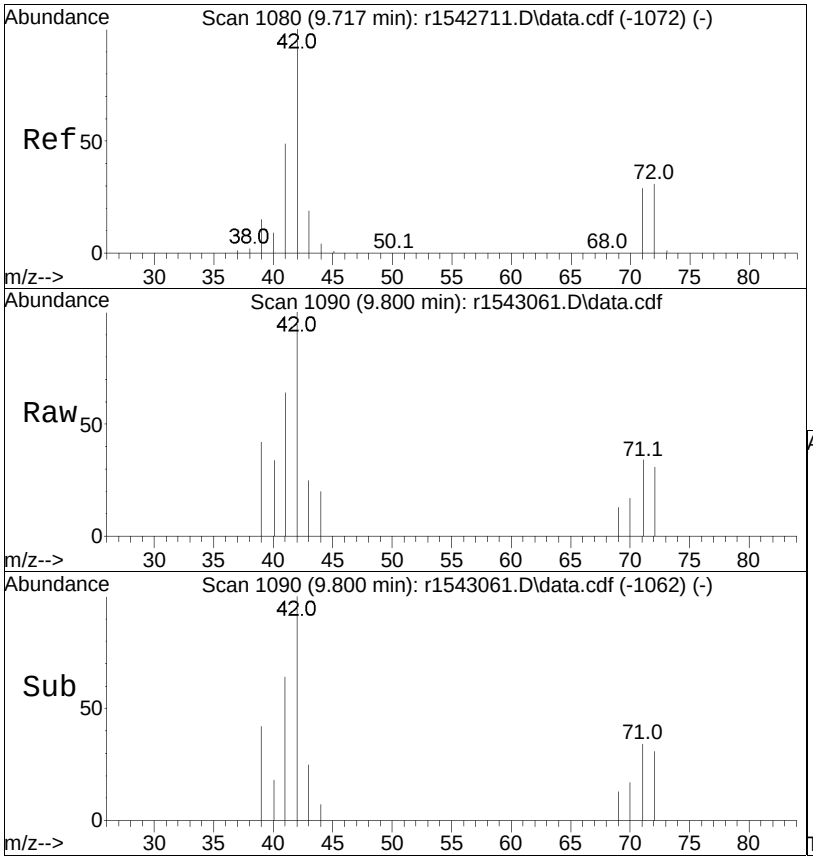


#36
2-butanone
Concen: 0.12 ppbV
RT: 8.508 min Scan# 937
Delta R.T. 0.025 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 43 Resp: 3478

Ion	Ratio	Lower	Upper
43	100		
72	23.6	21.0	31.4
57	0.0	7.1	10.7#

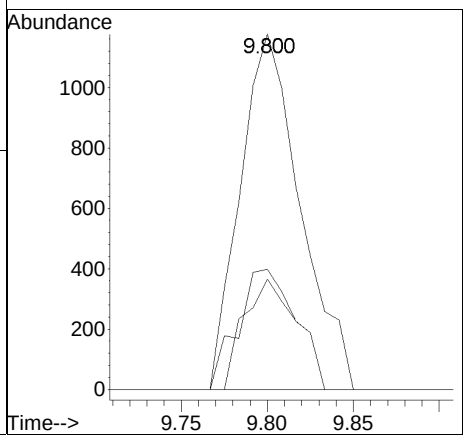


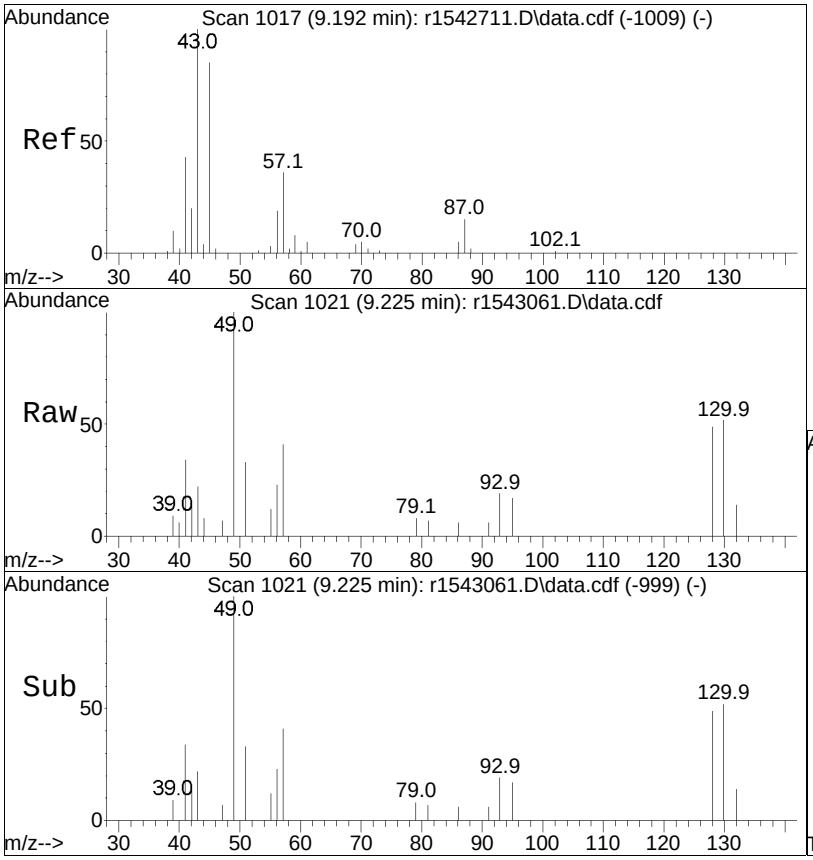


#40
Tetrahydrofuran
Concen: 0.16 ppbV
RT: 9.800 min Scan# 1090
Delta R.T. 0.033 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 42 Resp: 2868

Ion	Ratio	Lower	Upper
42	100		
71	33.8	30.6	46.0
72	31.1	32.5	48.7#

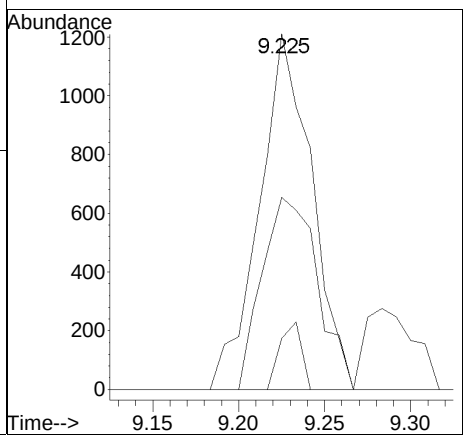


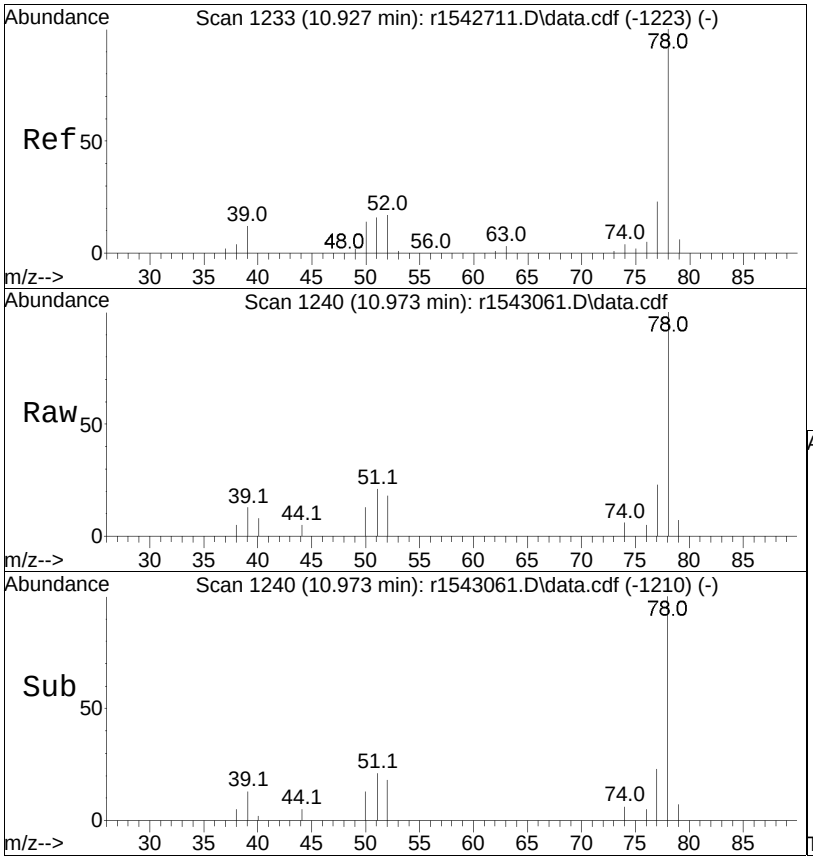


#44
hexane
Concen: 0.10 ppbV
RT: 9.225 min Scan# 1021
Delta R.T. -0.017 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 57 Resp: 2563

Ion	Ratio	Lower	Upper
57	100		
43	54.0	146.8	220.2#
86	14.4	12.7	19.1

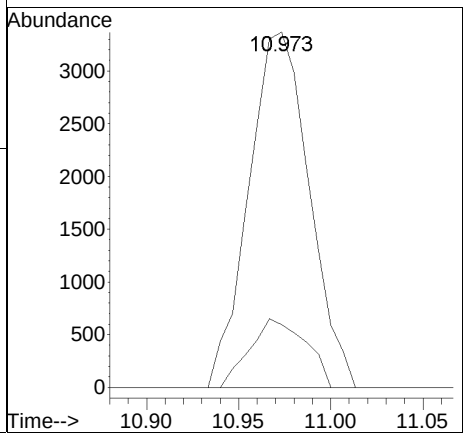


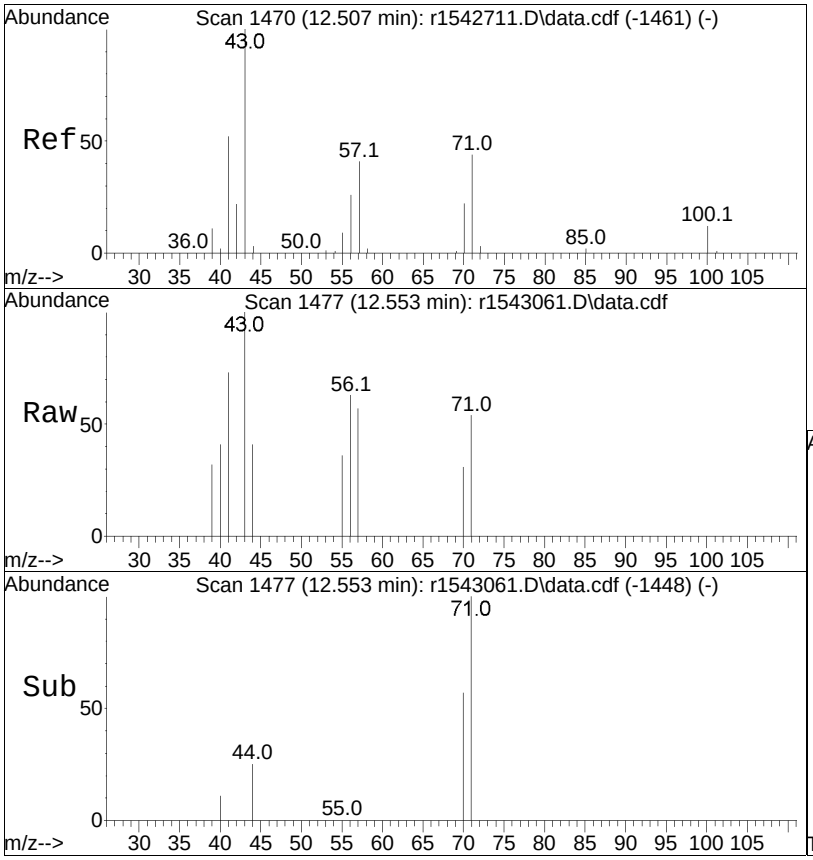


#50
benzene
Concen: 0.16 ppbV
RT: 10.973 min Scan# 1240
Delta R.T. 0.000 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 78 Resp: 7696

Ion	Ratio	Lower	Upper
78	100		
52	17.7	14.1	21.1

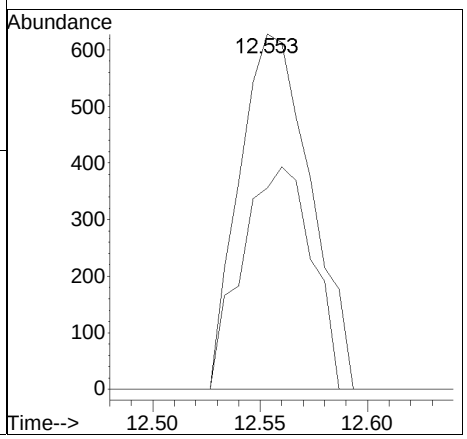


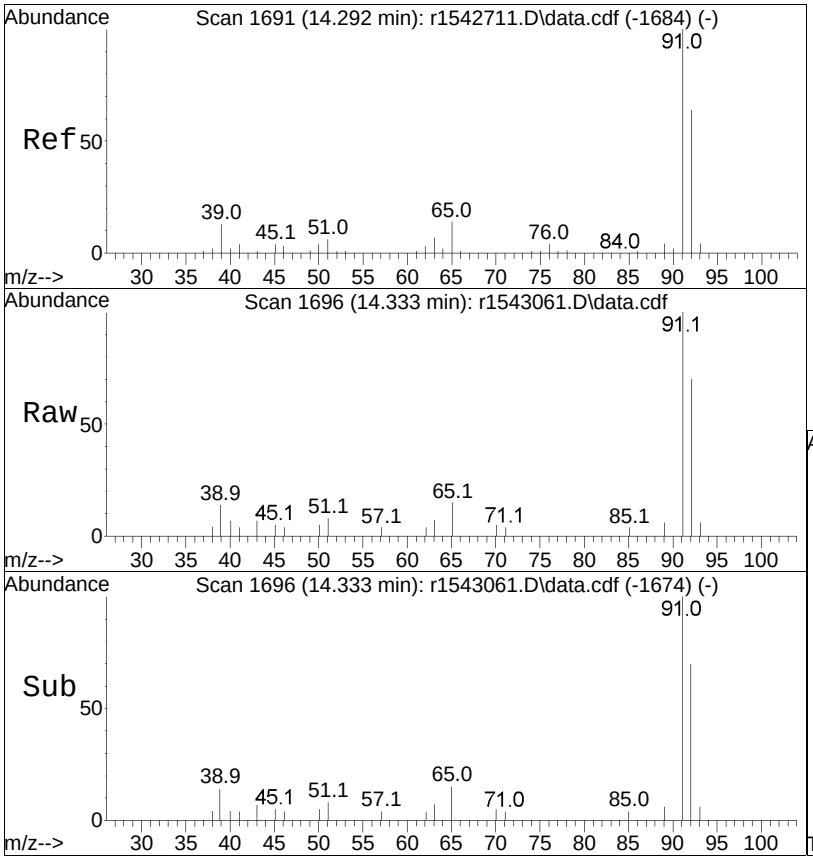


#62
heptane
Concen: 0.05 ppbV
RT: 12.553 min Scan# 1477
Delta R.T. -0.007 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 43 Resp: 1445

Ion	Ratio	Lower	Upper
43	100		
57	56.7	46.6	70.0
100	0.0	13.3	19.9#

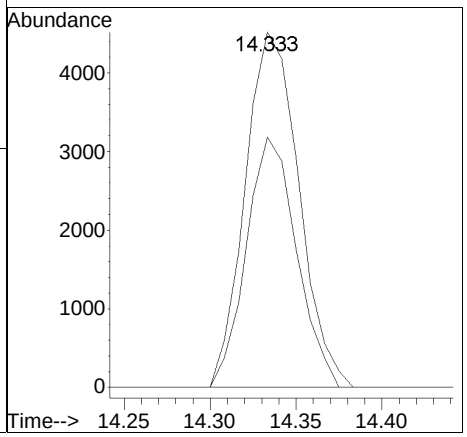


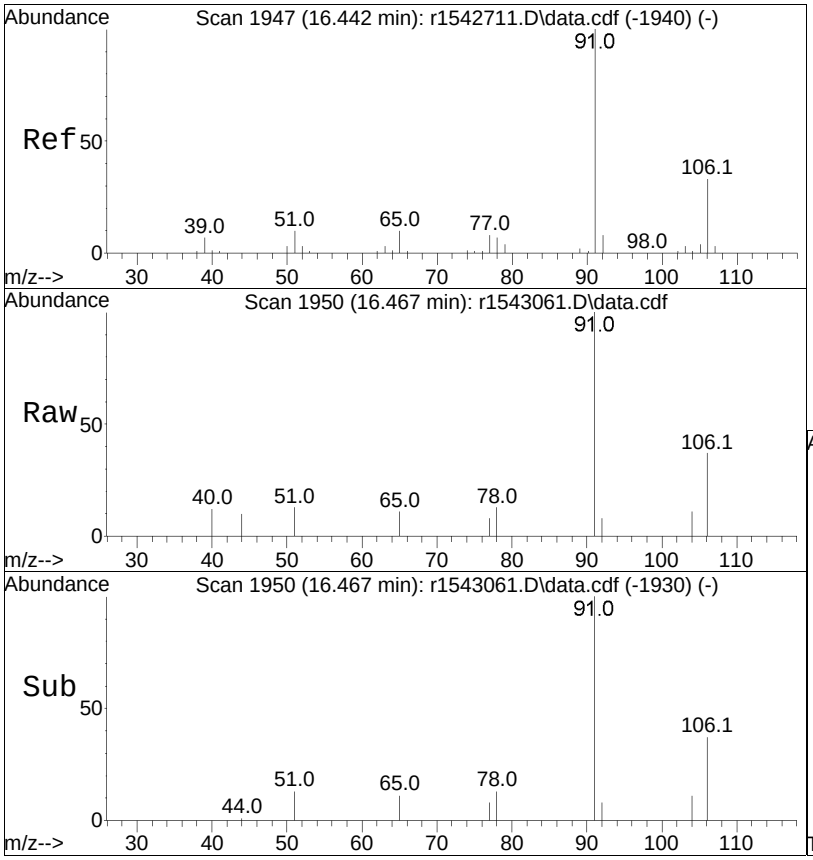


#68
toluene
Concen: 0.15 ppbV
RT: 14.333 min Scan# 1696
Delta R.T. -0.017 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 91 Resp: 9828

Ion	Ratio	Lower	Upper
91	100		
92	70.4	51.0	76.4

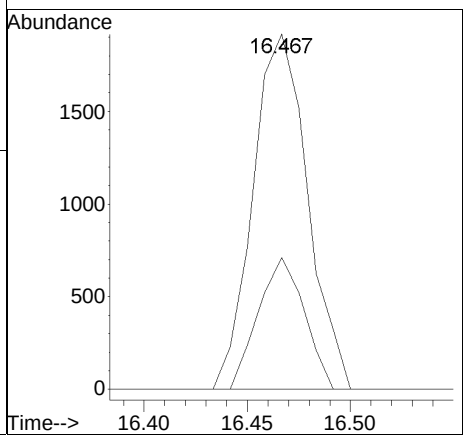


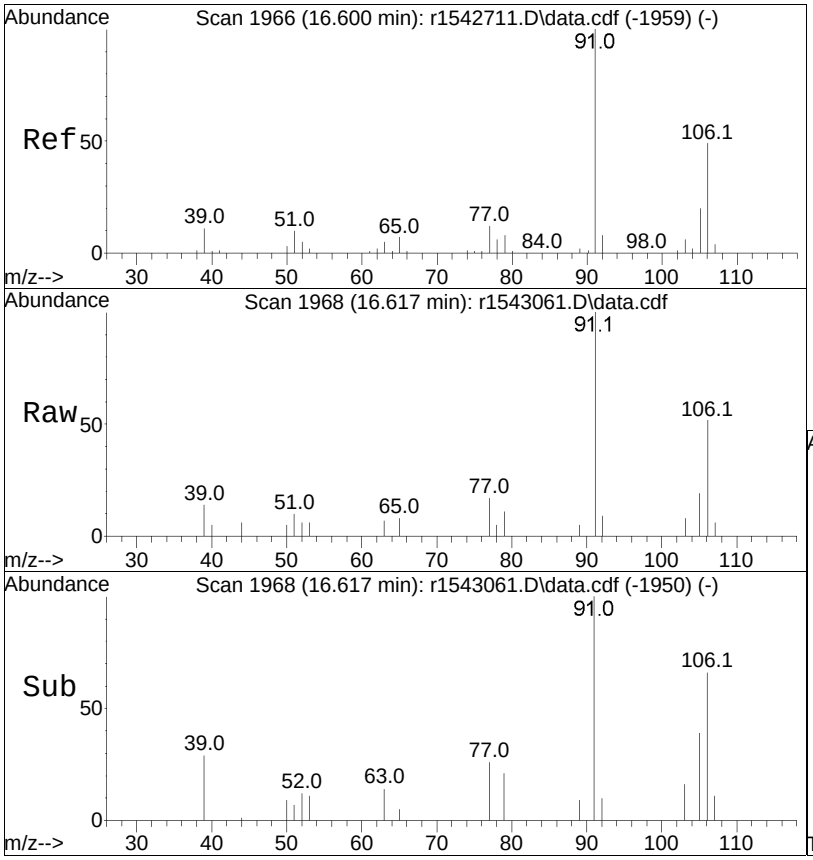


#81
ethylbenzene
Concen: 0.04 ppbV
RT: 16.467 min Scan# 1950
Delta R.T. -0.033 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 91 Resp: 3536

Ion	Ratio	Lower	Upper
91	100		
106	37.1	27.7	41.5

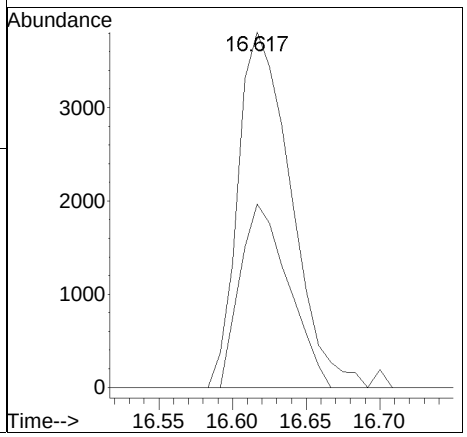


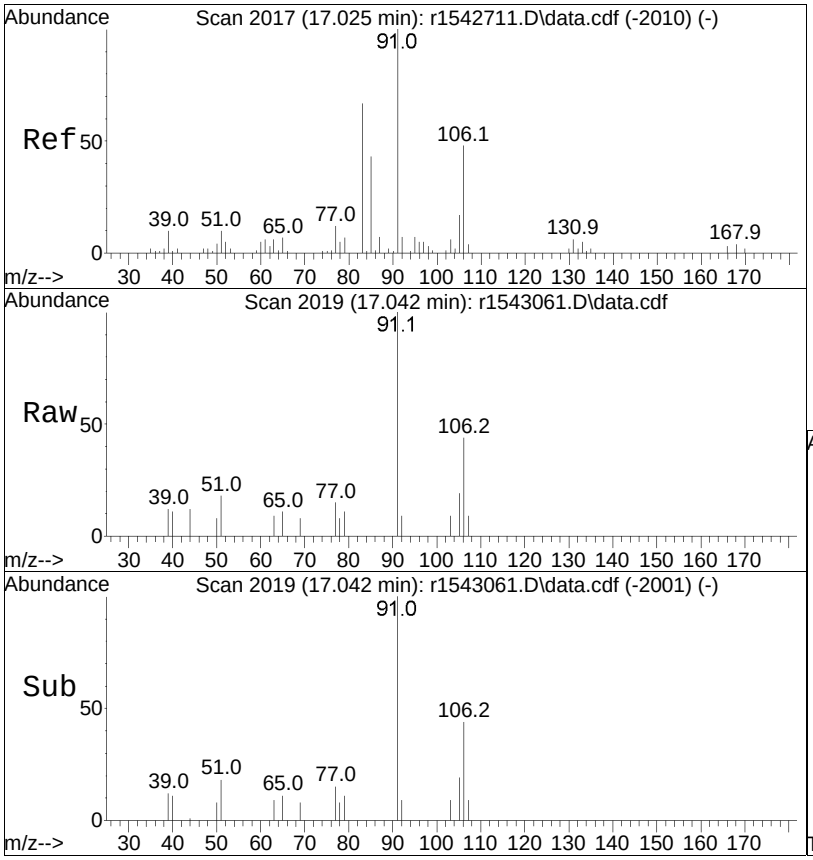


#83
m+p-xylene
Concen: 0.14 ppbV
RT: 16.617 min Scan# 1968
Delta R.T. -0.050 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 91 Resp: 9528

Ion	Ratio	Lower	Upper
91	100		
106	51.6	42.7	64.1

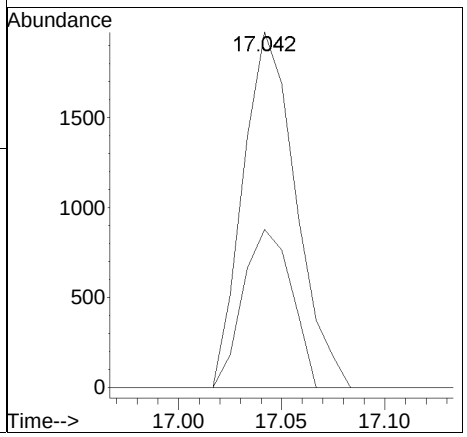


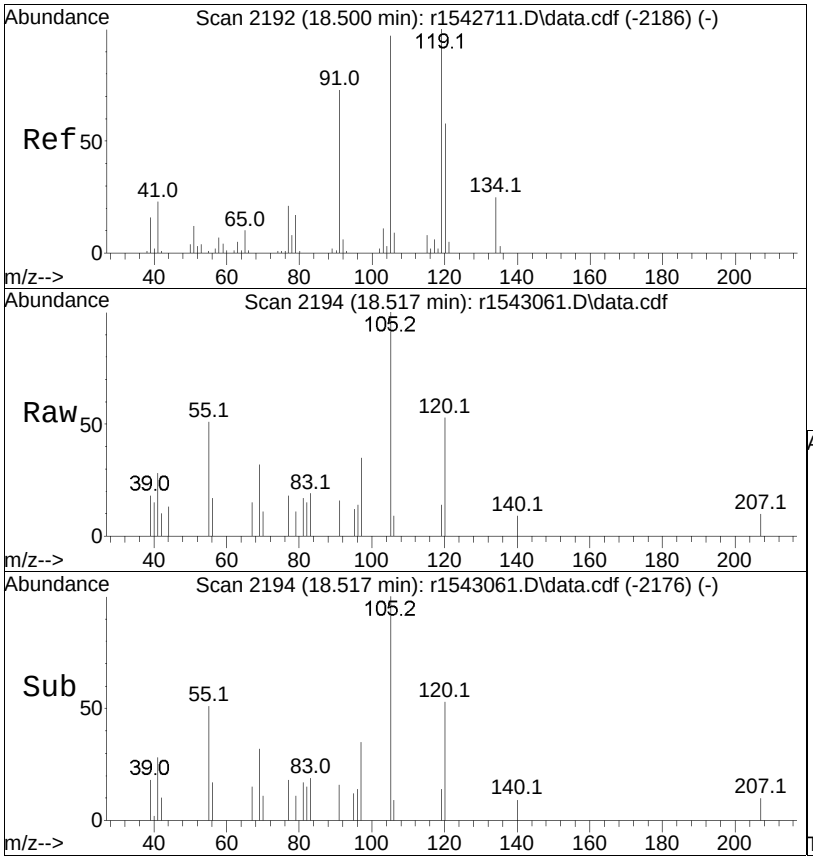


#87
o-xylene
Concen: 0.05 ppbV
RT: 17.042 min Scan# 2019
Delta R.T. -0.050 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion: 91 Resp: 3521

Ion	Ratio	Lower	Upper
91	100		
106	44.5	40.0	60.0

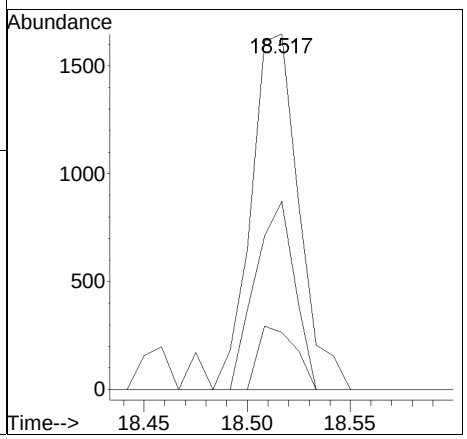




#99
1,2,4-trimethylbenzene
Concen: 0.04 ppbV
RT: 18.517 min Scan# 2194
Delta R.T. -0.050 min
Lab File: r1543061.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion:105 Resp: 2653

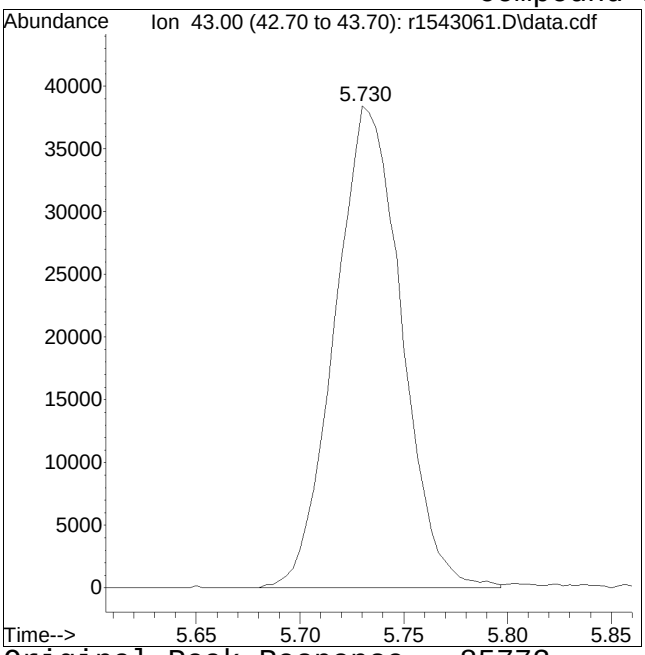
Ion	Ratio	Lower	Upper
105	100		
120	53.0	51.8	77.6
91	16.1	58.3	87.5#



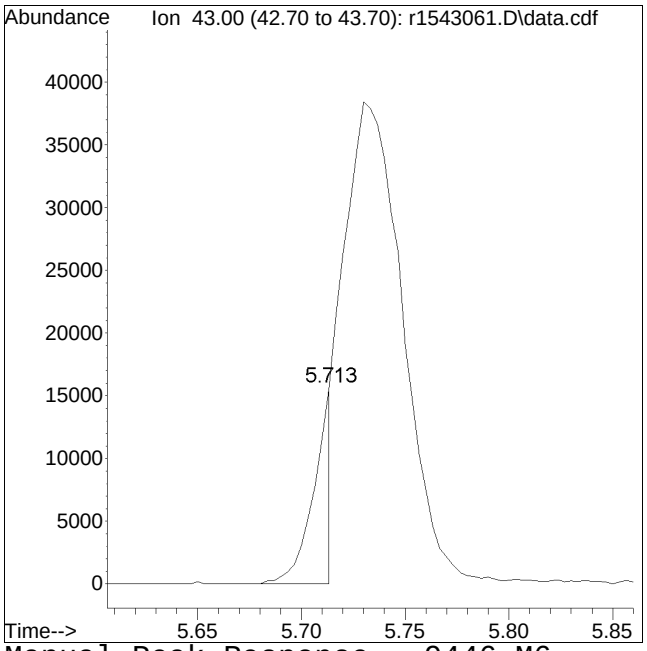
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543061.D Operator : AIRLAB15:KJD
Date Inj'd : 2/27/2020 0:2: 8 Instrument :
Sample : L2409206-10,3,250,250 Quant Date : 2/27/2024 7:23 am

Compound #19: acetone



Original Peak Response = 85773



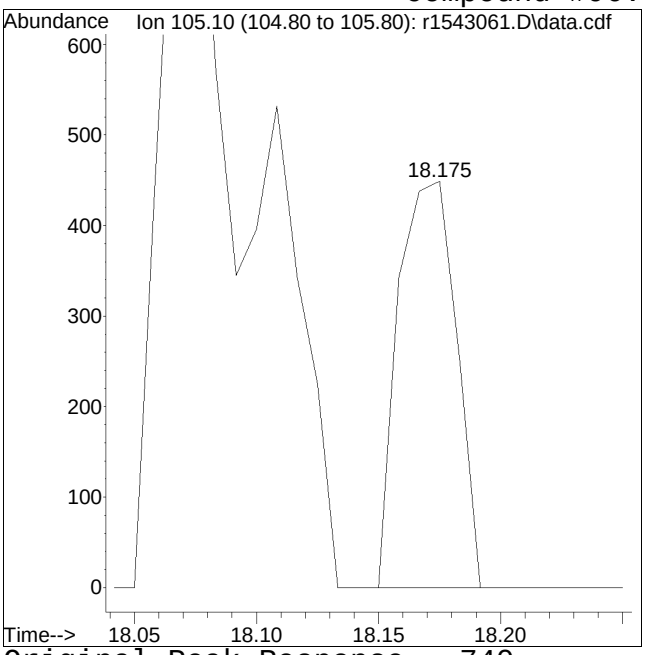
Manual Peak Response = 9446 M6

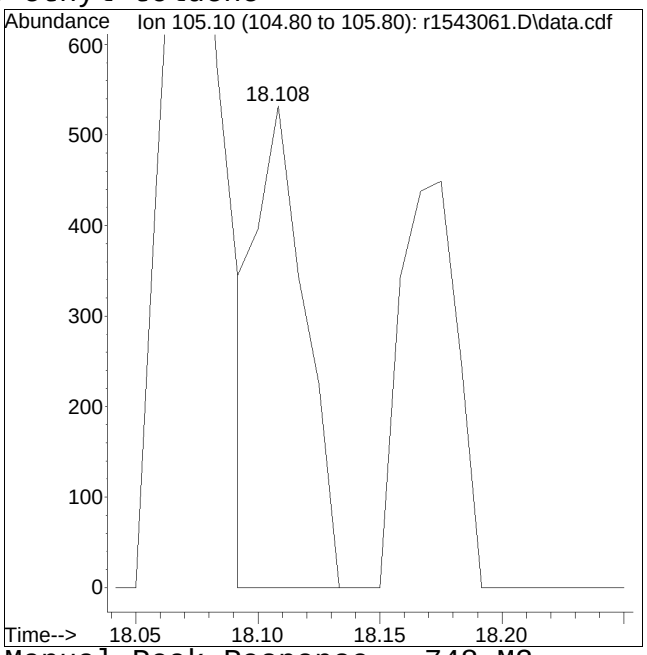
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543061.D Operator : AIRLAB15:KJD
Date Inj'd : 2/27/2020 0:2: 8 Instrument :
Sample : L2409206-10,3,250,250 Quant Date : 2/27/2024 7:23 am

Compound #96: 4-ethyl toluene





Original Peak Response = 740 Manual Peak Response = 748 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543062.D
Acq On : 27 Feb 2024 1:09 AM
Operator : AIRLAB15:KJD
Sample : L2409206-12,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:24:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.167	49	221054	10.000	ppbV	0.00
Standard Area = 240397			Recovery =		91.95%	
43) 1,4-difluorobenzene	11.393	114	605952	10.000	ppbV	0.00
Standard Area = 687087			Recovery =		88.19%	
67) chlorobenzene-D5	16.075	54	117098	10.000	ppbV	-0.03
Standard Area = 126242			Recovery =		92.76%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	13290	0.528	ppbV	99
6) chloromethane	4.198	50	5410	0.571	ppbV	100
7) Freon-114	4.300		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.	d	
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.212	31	26783	3.220	ppbV #	85
17) vinyl bromide	0.000		0	N.D.		
19) acetone	0.000		0	N.D.	d	
21) trichlorofluoromethane	5.887	101	5039	0.268	ppbV	87
22) isopropyl alcohol	6.033	45	7077	0.450	ppbV	99
27) tertiary butyl alcohol	6.726	59	2898	0.109	ppbV #	57
28) methylene chloride	6.744	49	3527	0.207	ppbV	96
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.056		0	N.D.		
31) Freon 113	7.050	101	1776	0.072	ppbV #	74
32) trans-1,2-dichloroethene	7.800	61	5327	0.245	ppbV	95
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.508	43	4712	0.160	ppbV	95
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.317		0	N.D.		
40) Tetrahydrofuran	9.800	42	4087	0.223	ppbV	96
42) 1,2-dichloroethane	10.167		0	N.D.		
44) hexane	9.225	57	3074	0.116	ppbV #	15
50) benzene	10.973	78	7750	0.158	ppbV	95
53) cyclohexane	11.293		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543062.D
Acq On : 27 Feb 2024 1:09 AM
Operator : AIRLAB15:KJD
Sample : L2409206-12,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:24:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

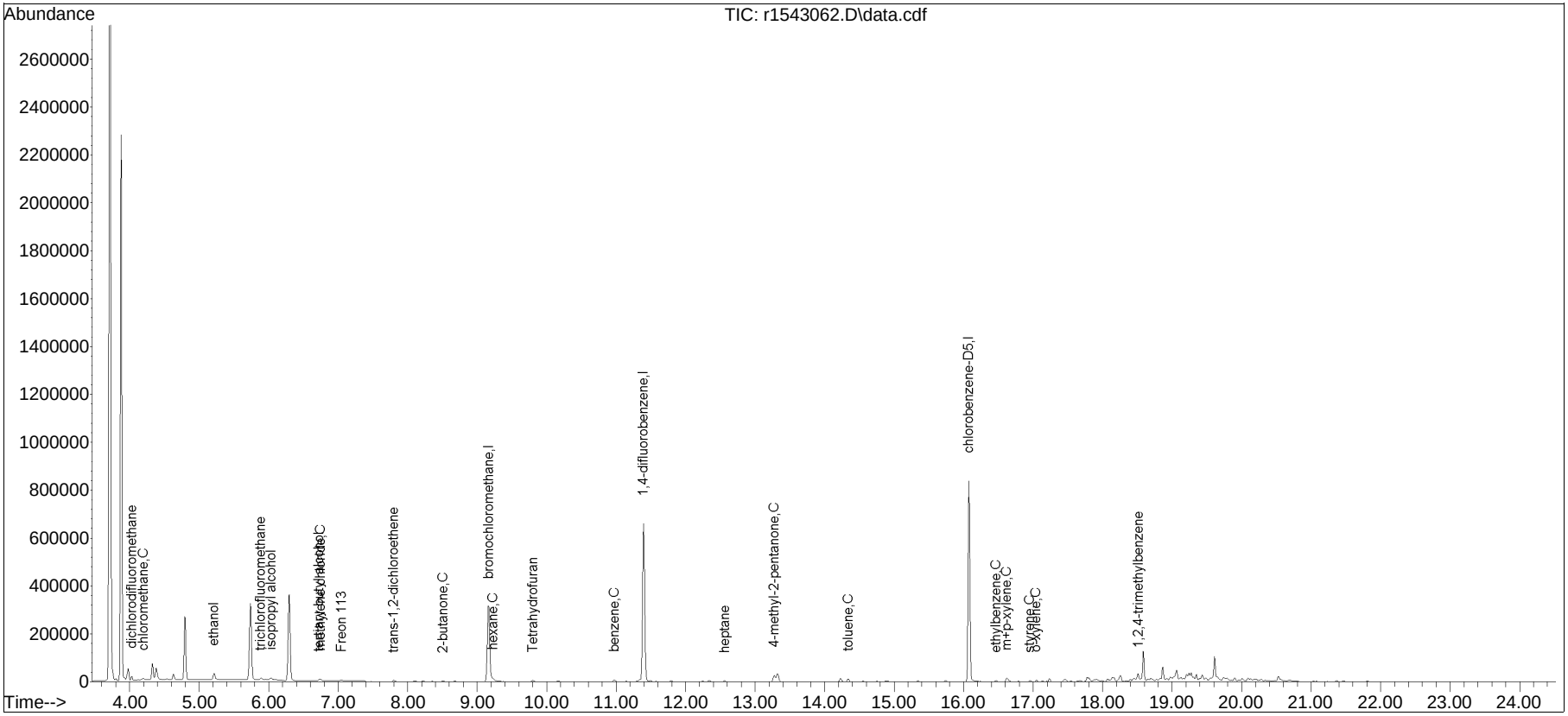
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.247		0	N.D.		
62) heptane	12.560	43	1728	0.059	ppbV #	85
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.275	43	24765	0.749	ppbV #	92
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.342	91	10184	0.152	ppbV	98
72) 2-hexanone	0.000		0	N.D.	d	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.467	91	4665	0.054	ppbV	96
83) m+p-xylene	16.617	91	13818	0.204	ppbV	94
84) bromoform	0.000		0	N.D.		
85) styrene	16.950	104	2388	0.043	ppbV	92
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d	
87) o-xylene	17.042	91	5064	0.075	ppbV	98
96) 4-ethyl toluene	18.108		0	N.D.		
97) 1,3,5-trimethylbenzene	18.167		0	N.D.		
99) 1,2,4-trimethylbenzene	18.517	105	3456	0.046	ppbV #	53
101) Benzyl Chloride	0.000		0	N.D.	d	
102) 1,3-dichlorobenzene	0.000		0	N.D.	d	
103) 1,4-dichlorobenzene	18.708		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.		

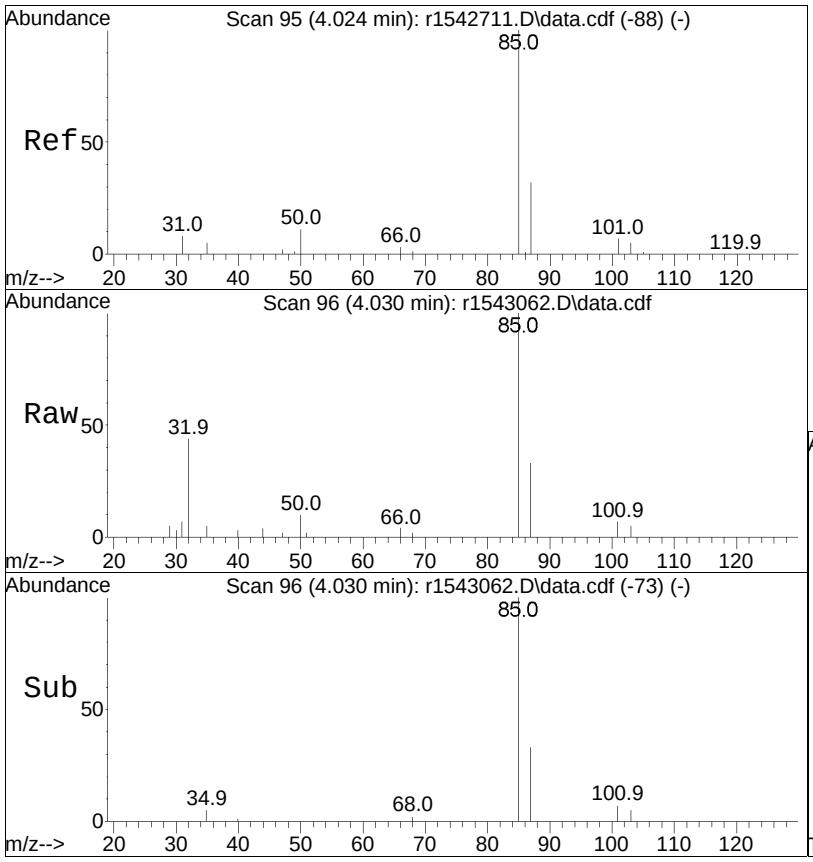
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab15\2024\02\0226T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543062.D
Acq On : 27 Feb 2024 1:09 AM
Operator : AIRLAB15:KJD
Sample : L2409206-12,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:24:11 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

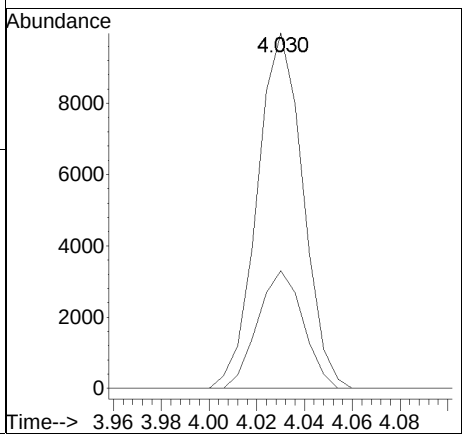


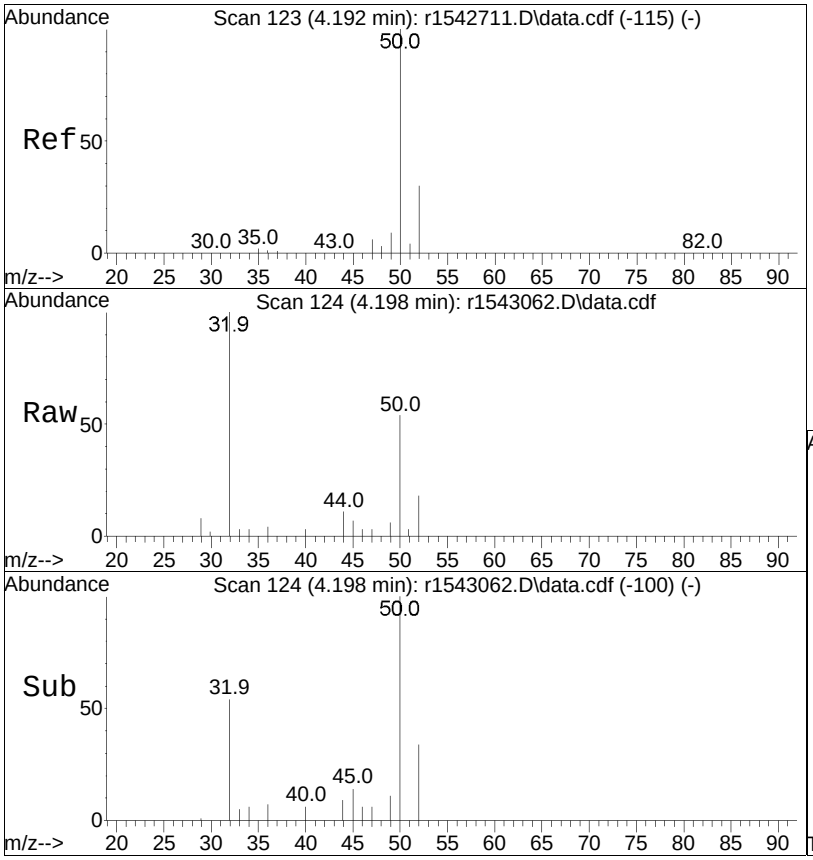


#5
dichlorodifluoromethane
Concen: 0.53 ppbV
RT: 4.030 min Scan# 96
Delta R.T. -0.064 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 85 Resp: 13290

Ion	Ratio	Lower	Upper
85	100		
87	33.1	26.1	39.1

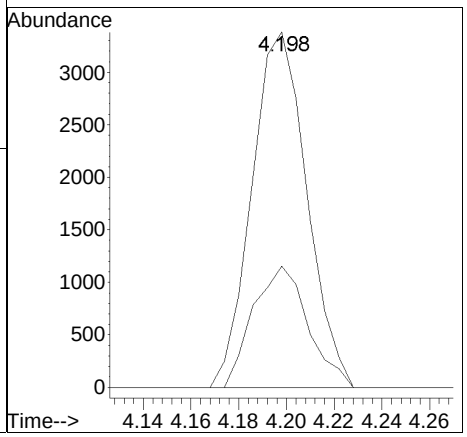


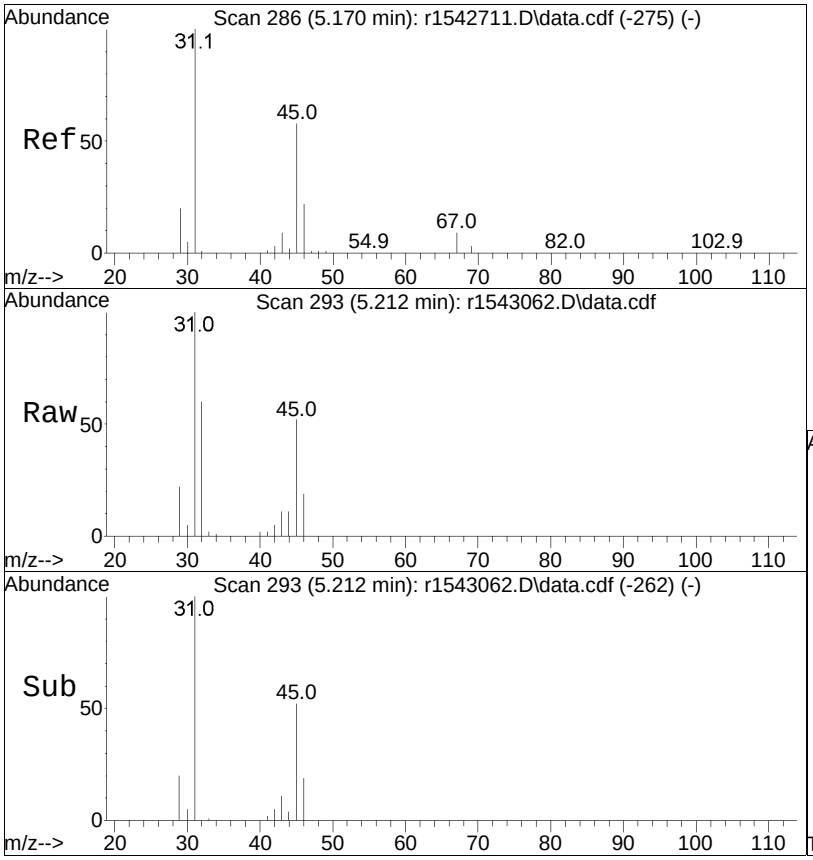


#6
chloromethane
Concen: 0.57 ppbV
RT: 4.198 min Scan# 124
Delta R.T. -0.058 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 50 Resp: 5410

Ion	Ratio	Lower	Upper
50	100		
52	34.1	27.4	41.2

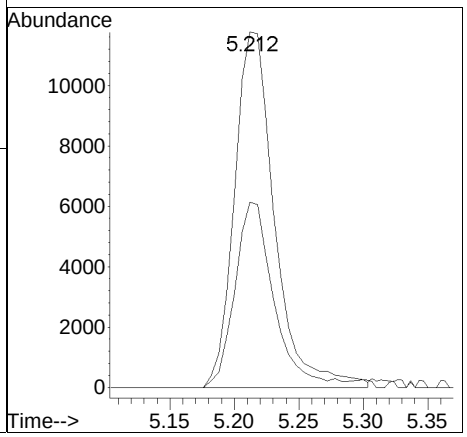


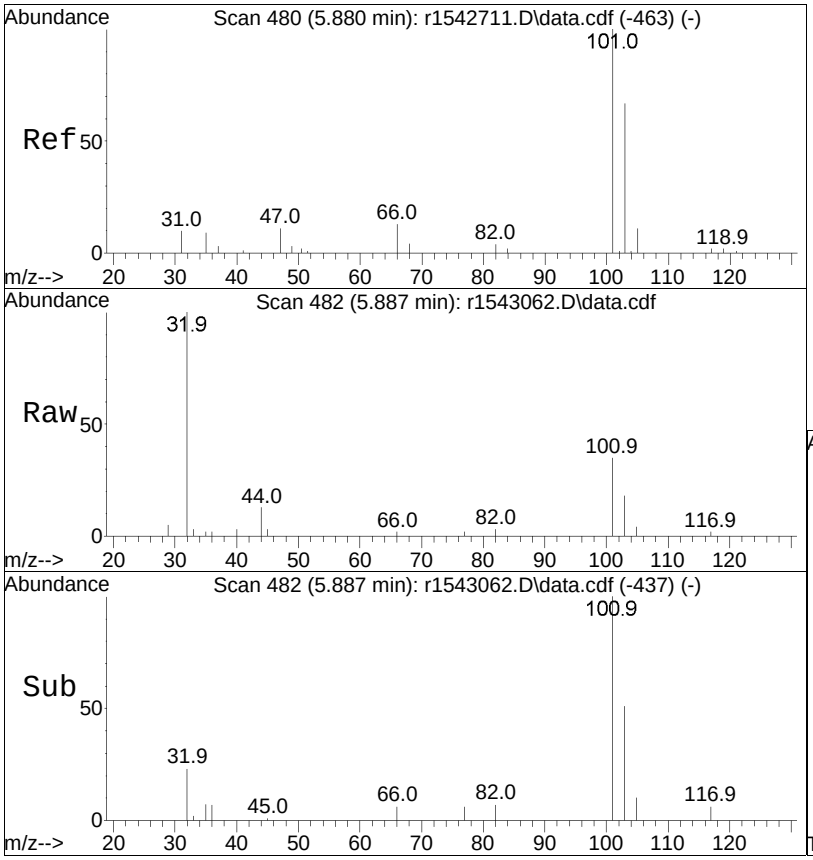


#15
ethanol
Concen: 3.22 ppbV
RT: 5.212 min Scan# 293
Delta R.T. -0.016 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 31 Resp: 26783

Ion	Ratio	Lower	Upper
31	100		
45	52.2	34.2	51.2#

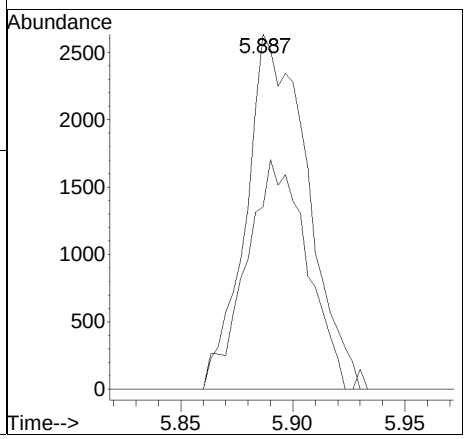


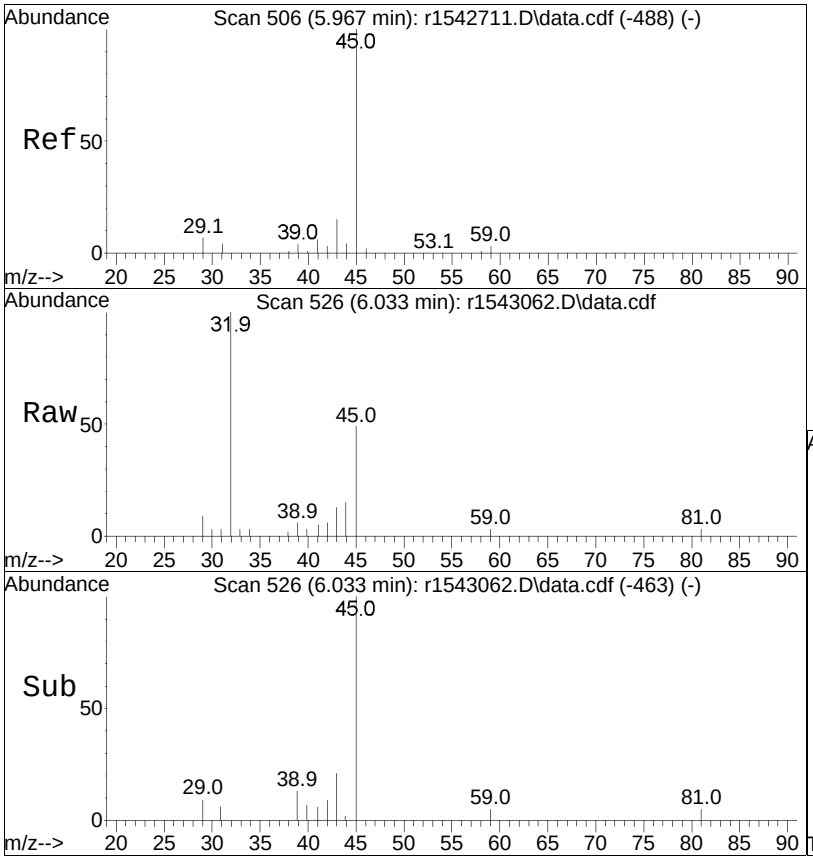


#21
trichlorofluoromethane
Concen: 0.27 ppbV
RT: 5.887 min Scan# 482
Delta R.T. -0.050 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion:101 Resp: 5039

Ion	Ratio	Lower	Upper
101	100		
103	51.4	49.4	74.0

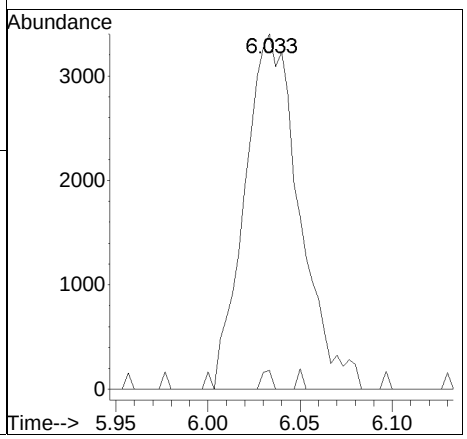


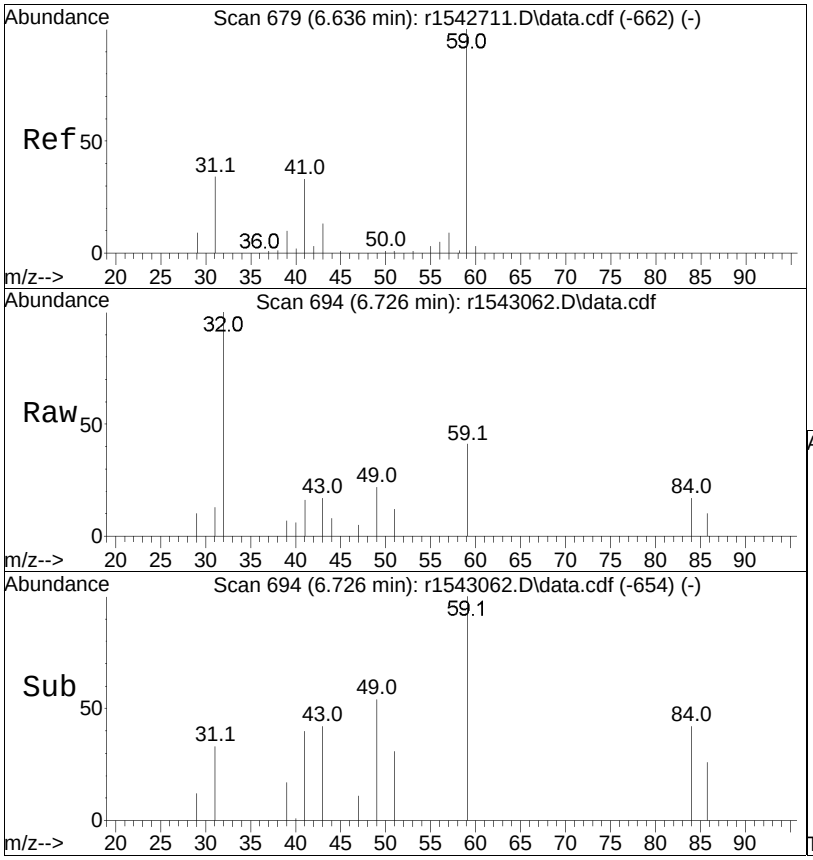


#22
isopropyl alcohol
Concen: 0.45 ppbV
RT: 6.033 min Scan# 526
Delta R.T. 0.010 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 45 Resp: 7077

Ion	Ratio	Lower	Upper
45	100		
59	5.4	4.6	6.8

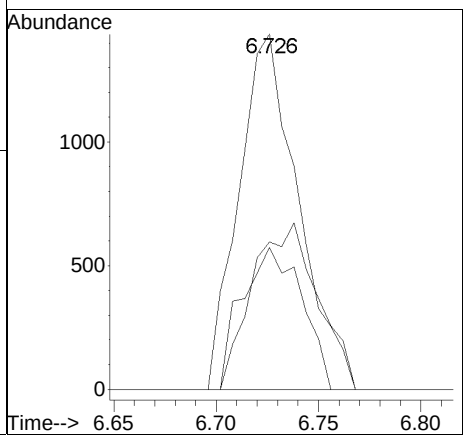


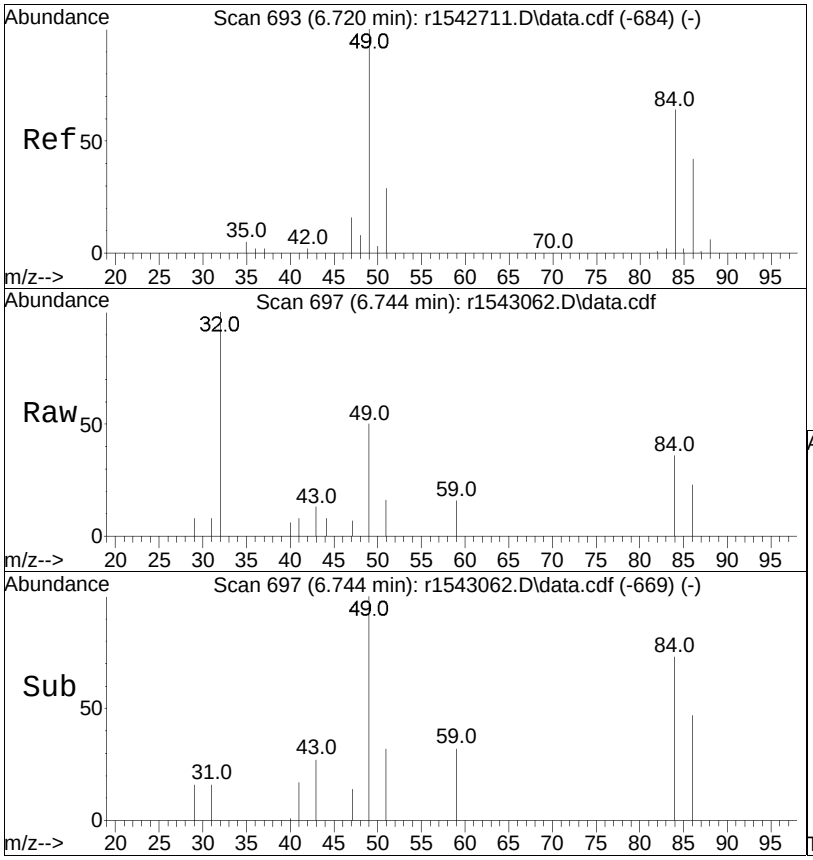


#27
tertiary butyl alcohol
Concen: 0.11 ppbV
RT: 6.726 min Scan# 694
Delta R.T. 0.038 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 59 Resp: 2898

Ion	Ratio	Lower	Upper
59	100		
41	40.0	21.0	31.4#
43	41.5	7.7	11.5#

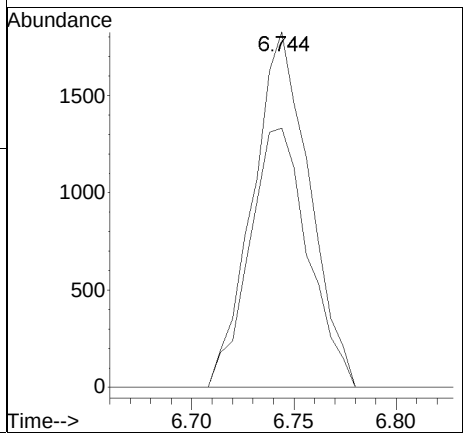


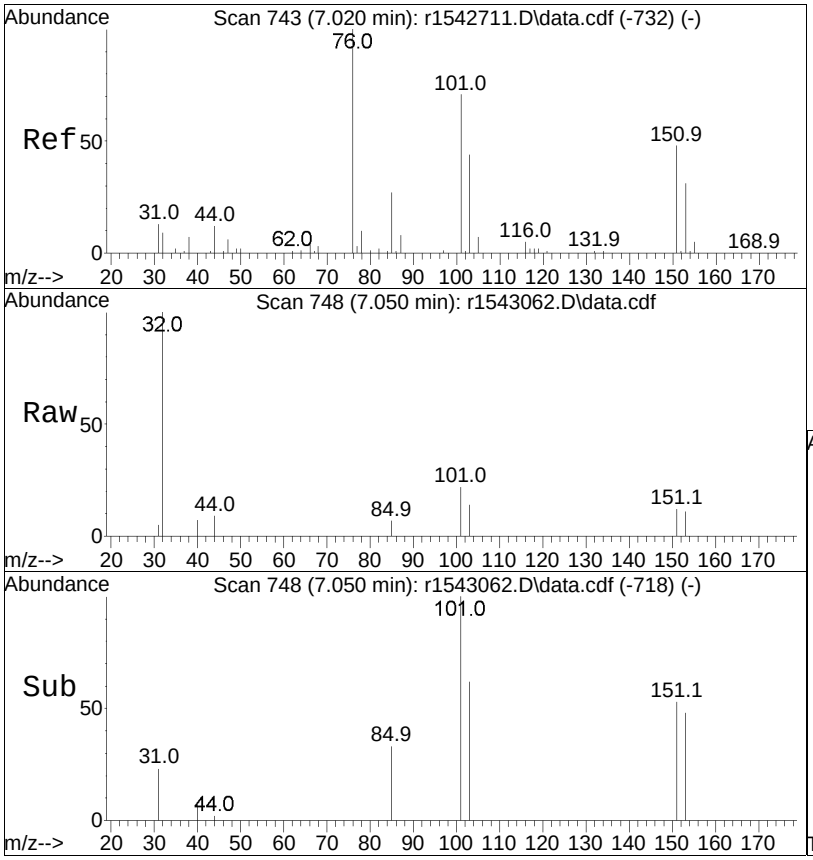


#28
methylene chloride
Concen: 0.21 ppbV
RT: 6.744 min Scan# 697
Delta R.T. -0.034 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 49 Resp: 3527

Ion	Ratio	Lower	Upper
49	100		
84	72.9	61.2	91.8

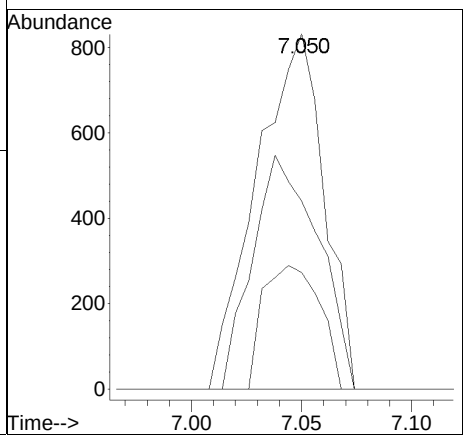


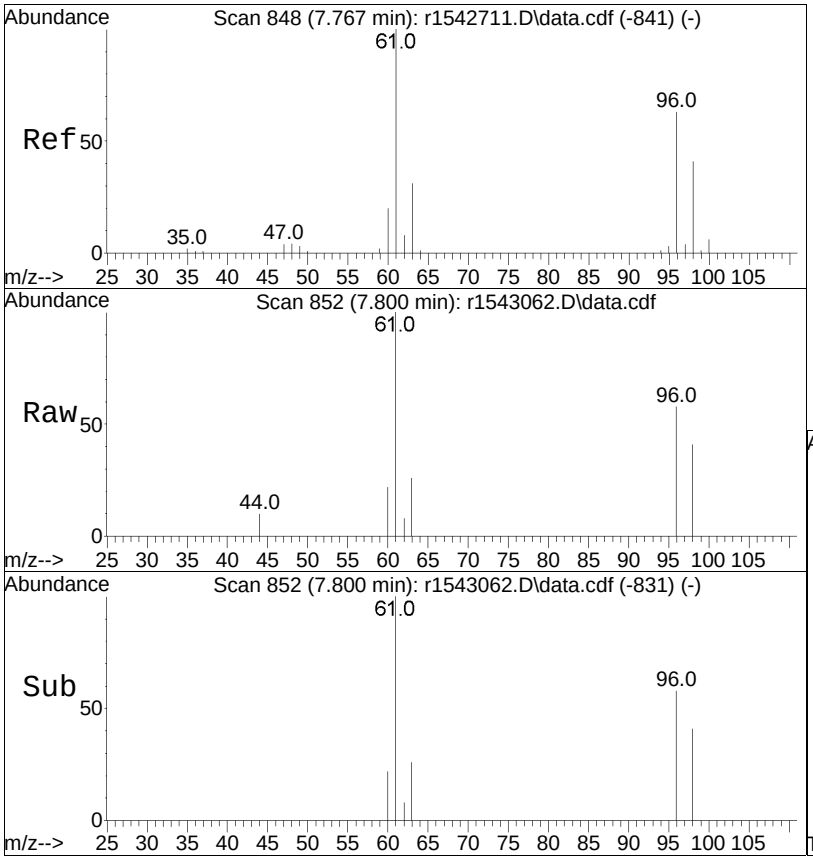


#31
Freon 113
Concen: 0.07 ppbV
RT: 7.050 min Scan# 748
Delta R.T. -0.022 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion:101 Resp: 1776

Ion	Ratio	Lower	Upper
101	100		
85	32.9	35.3	52.9#
151	53.0	63.8	95.8#

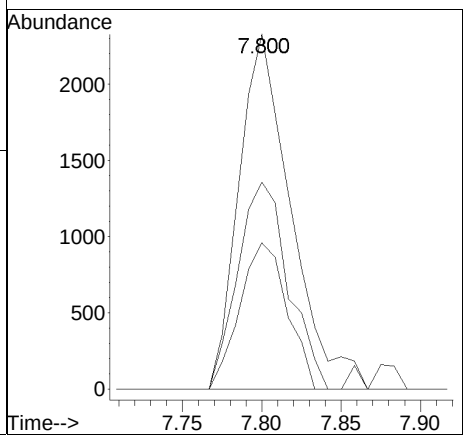


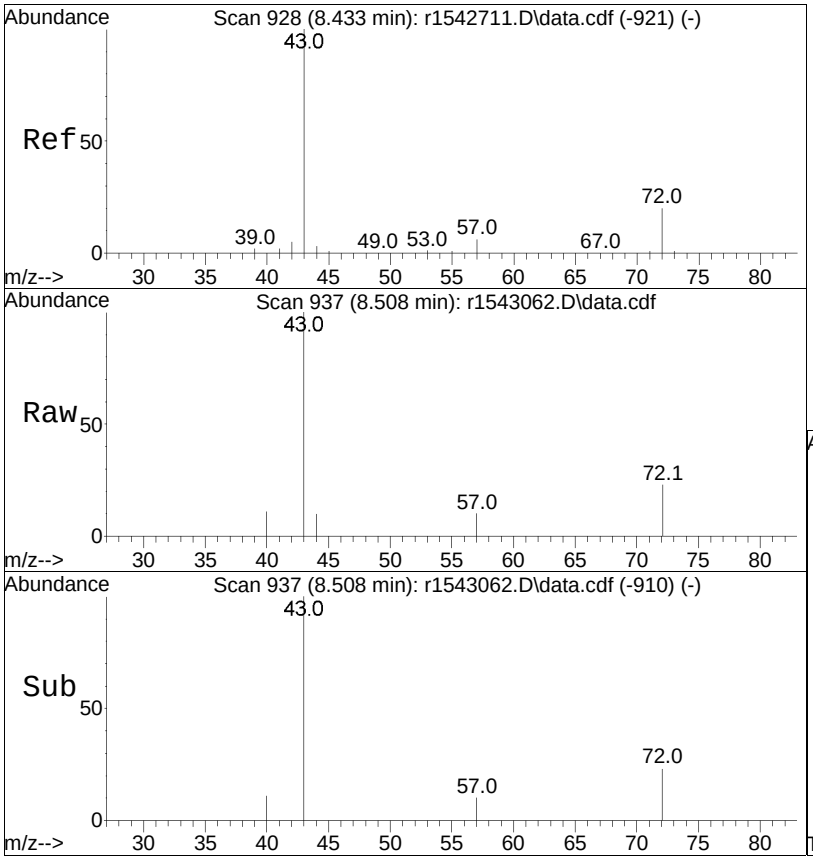


#32
trans-1,2-dichloroethene
Concen: 0.25 ppbV
RT: 7.800 min Scan# 852
Delta R.T. -0.025 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 61 Resp: 5327

Ion	Ratio	Lower	Upper
61	100		
96	58.4	52.2	78.4
98	41.2	33.0	49.4

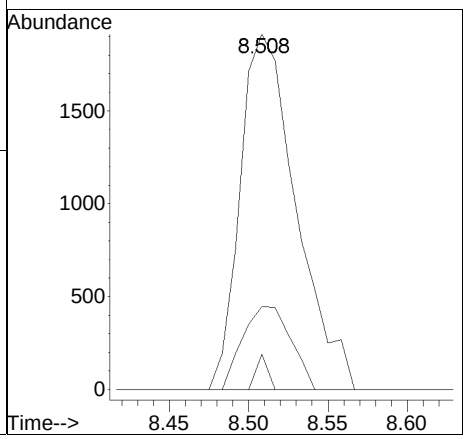


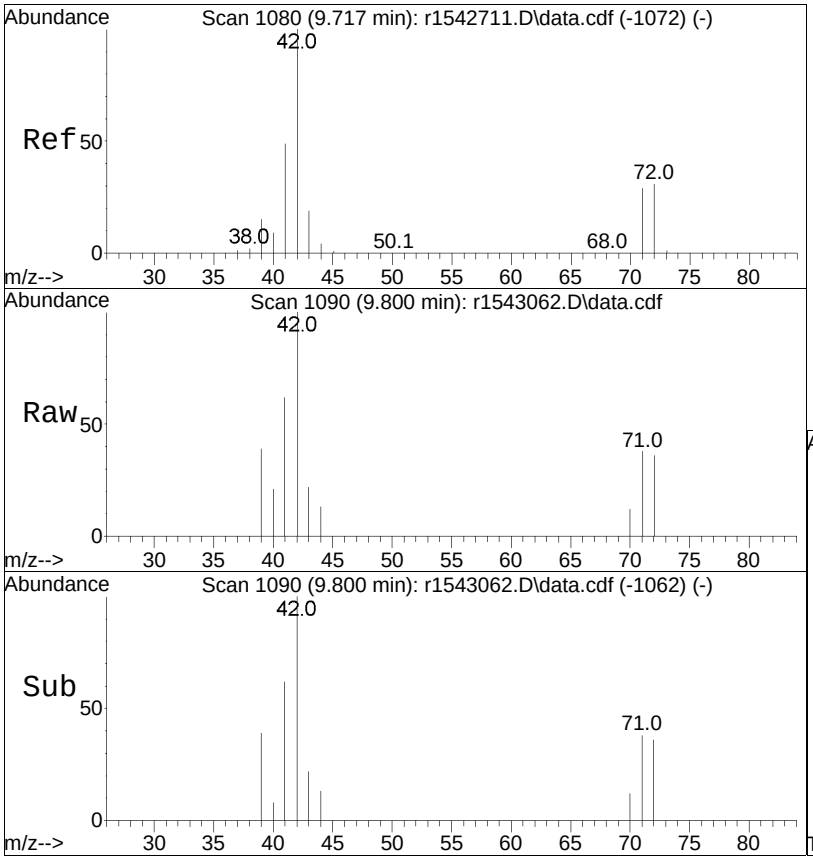


#36
2-butanone
Concen: 0.16 ppbV
RT: 8.508 min Scan# 937
Delta R.T. 0.025 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 43 Resp: 4712

Ion	Ratio	Lower	Upper
43	100		
72	23.4	21.0	31.4
57	9.9	7.1	10.7

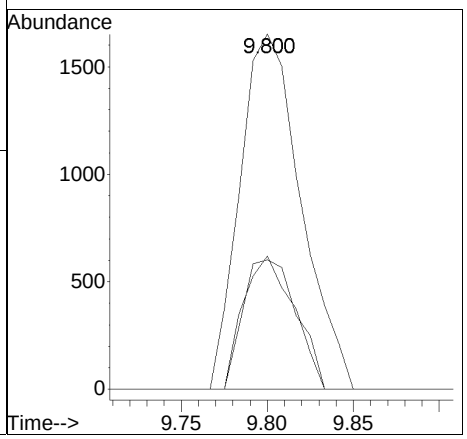


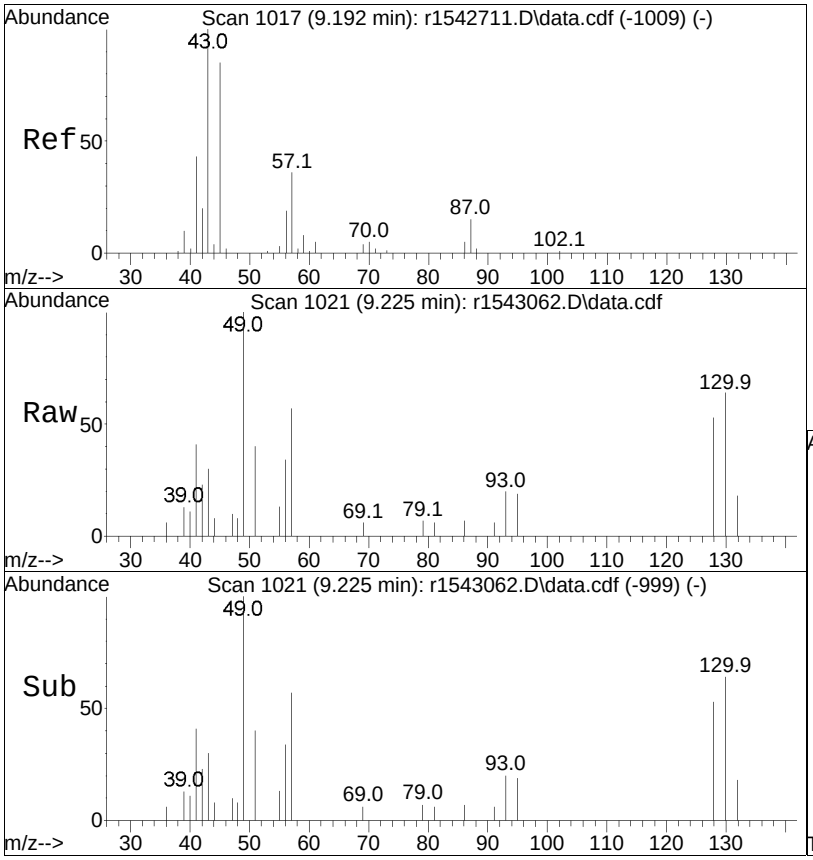


#40
Tetrahydrofuran
Concen: 0.22 ppbV
RT: 9.800 min Scan# 1090
Delta R.T. 0.033 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 42 Resp: 4087

Ion	Ratio	Lower	Upper
42	100		
71	37.5	30.6	46.0
72	36.4	32.5	48.7

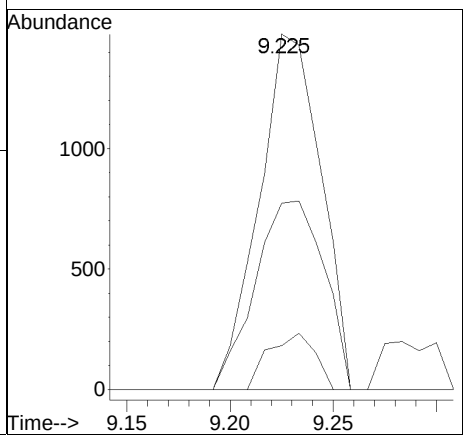


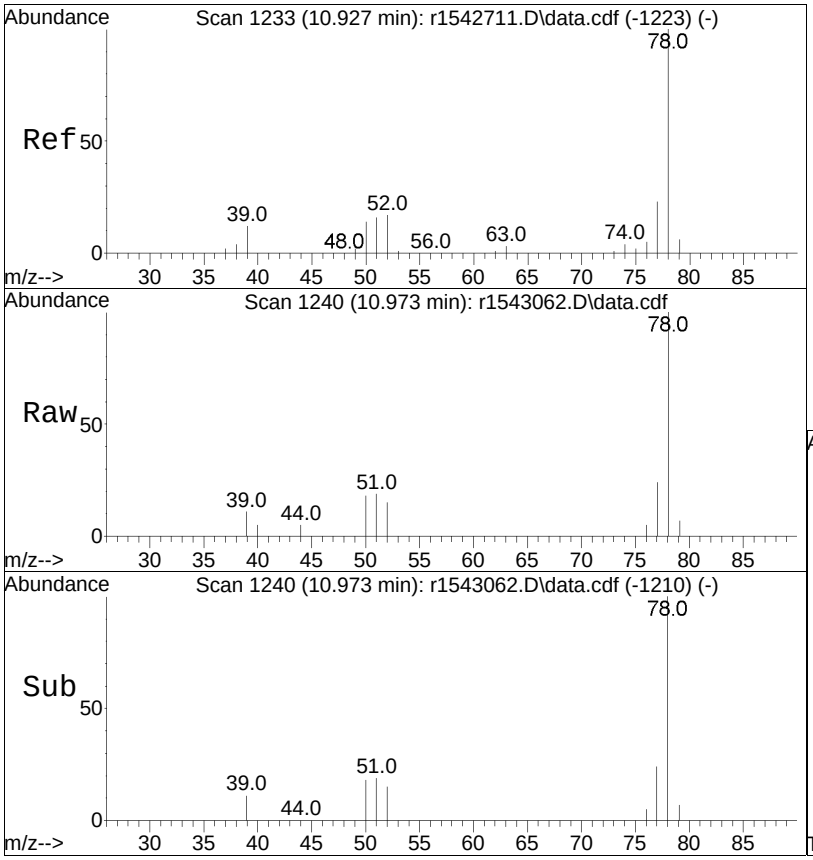


#44
hexane
Concen: 0.12 ppbV
RT: 9.225 min Scan# 1021
Delta R.T. -0.017 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 57 Resp: 3074

Ion	Ratio	Lower	Upper
57	100		
43	52.4	146.8	220.2#
86	12.3	12.7	19.1#

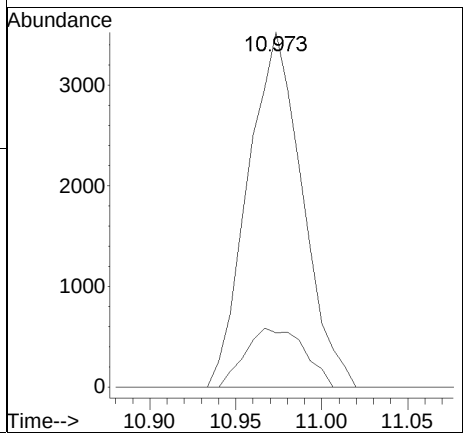


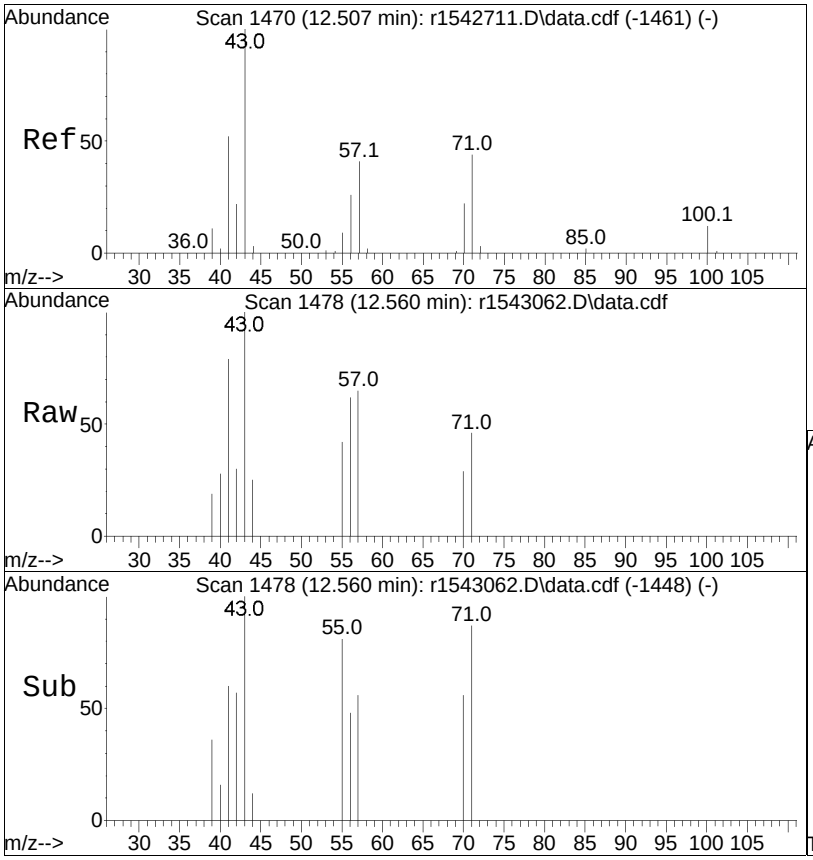


#50
benzene
Concen: 0.16 ppbV
RT: 10.973 min Scan# 1240
Delta R.T. 0.000 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 78 Resp: 7750

Ion	Ratio	Lower	Upper
78	100		
52	15.4	14.1	21.1

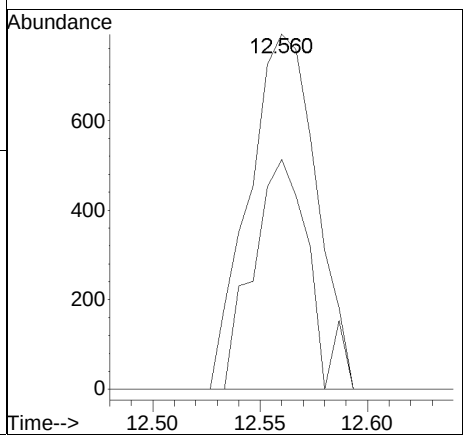


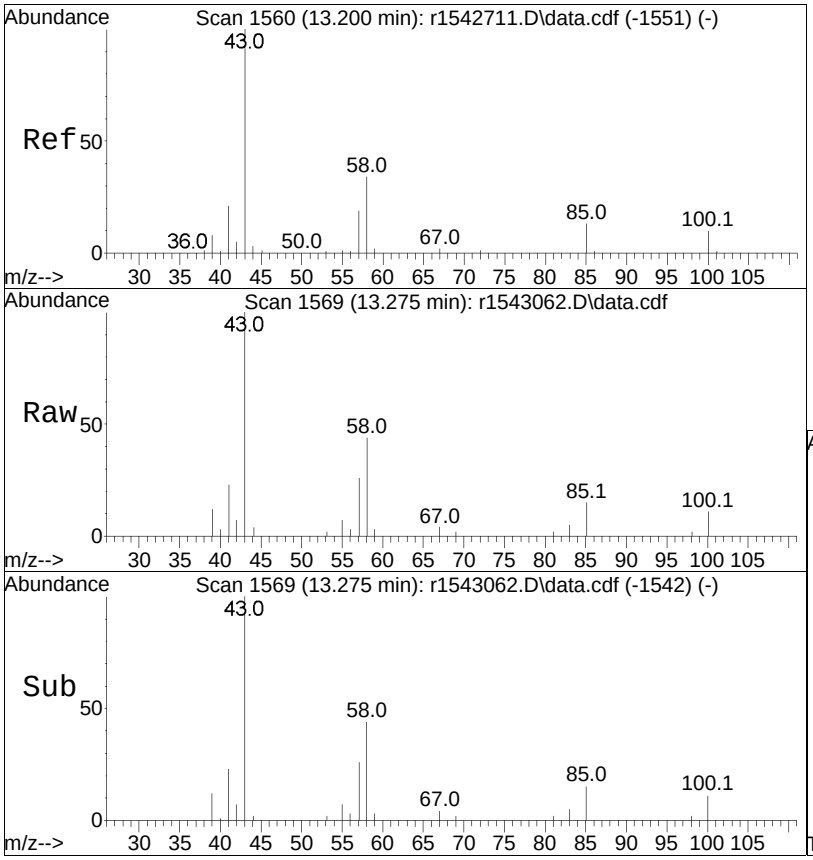


#62
heptane
Concen: 0.06 ppbV
RT: 12.560 min Scan# 1478
Delta R.T. 0.000 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 43 Resp: 1728

Ion	Ratio	Lower	Upper
43	100		
57	64.7	46.6	70.0
100	0.0	13.3	19.9#

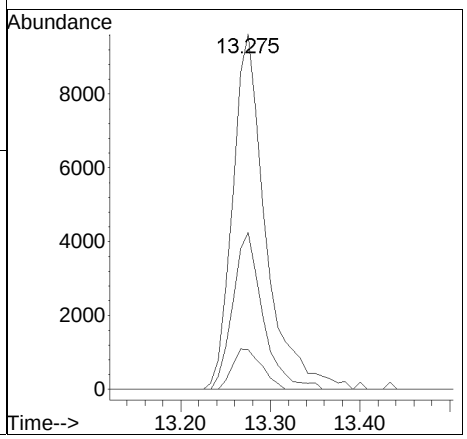


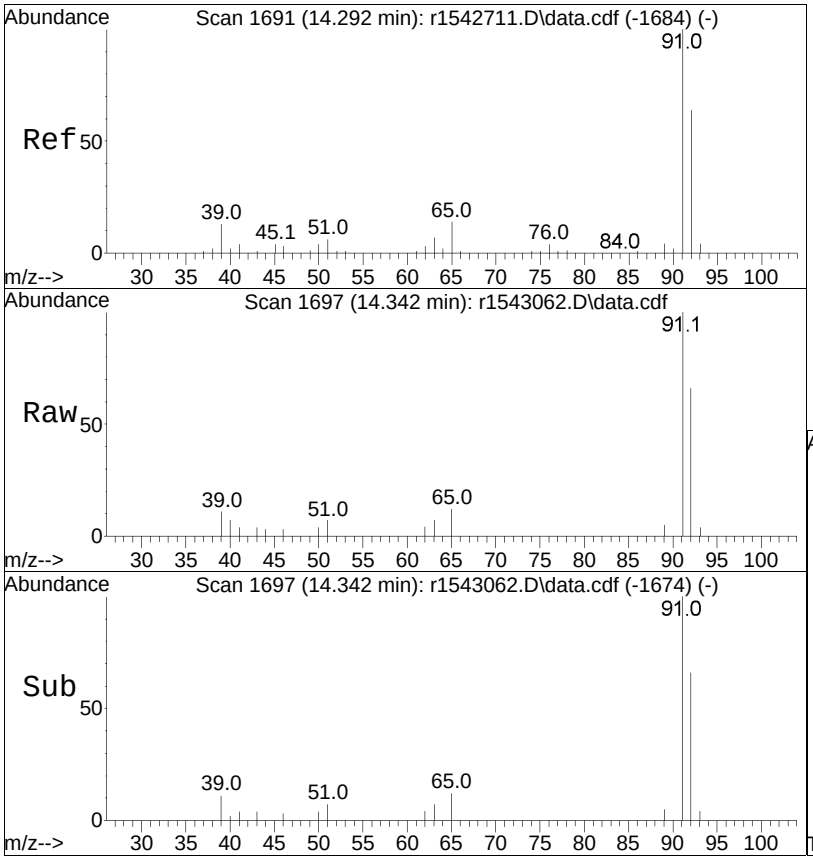


#64
4-methyl-2-pentanone
Concen: 0.75 ppbV
RT: 13.275 min Scan# 1569
Delta R.T. 0.025 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 43 Resp: 24765

Ion	Ratio	Lower	Upper
43	100		
58	44.2	39.5	59.3
100	11.2	11.8	17.6#

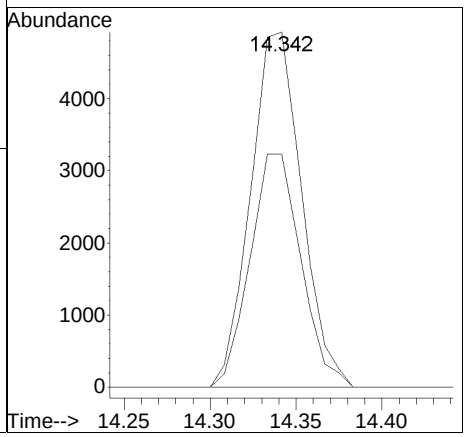


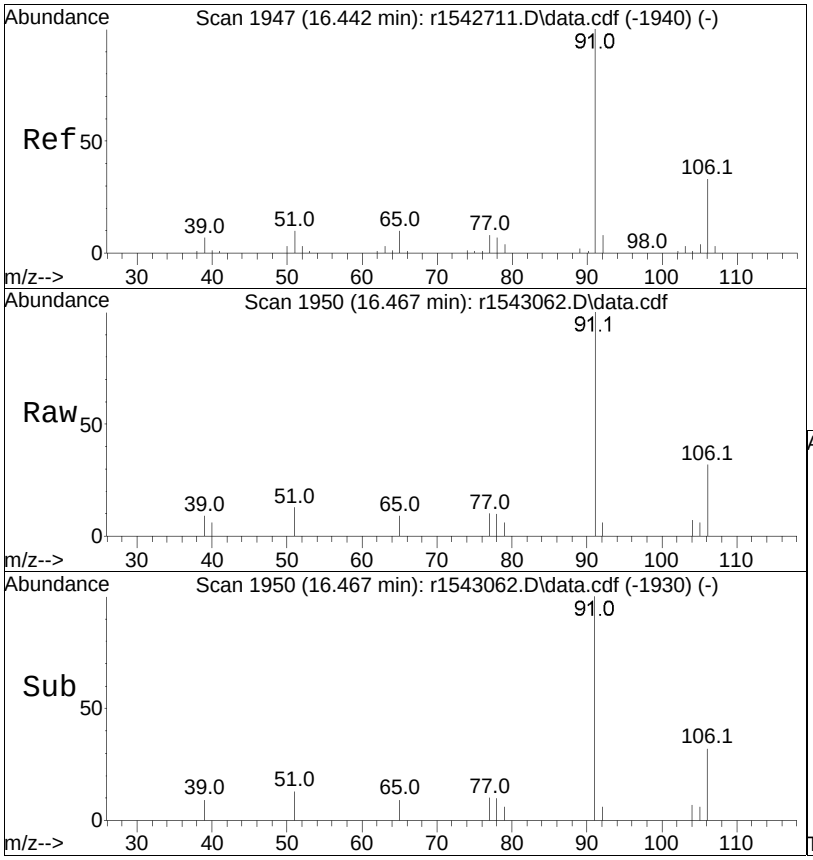


#68
toluene
Concen: 0.15 ppbV
RT: 14.342 min Scan# 1697
Delta R.T. -0.008 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 91 Resp: 10184

Ion	Ratio	Lower	Upper
91	100		
92	65.6	51.0	76.4

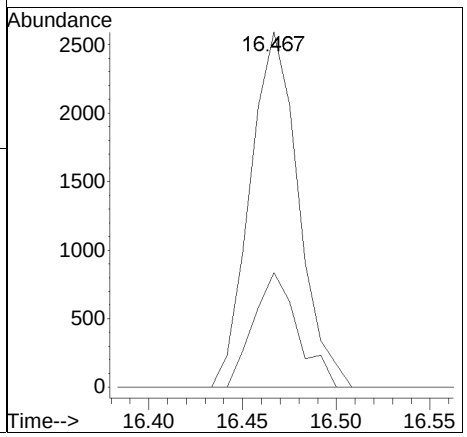


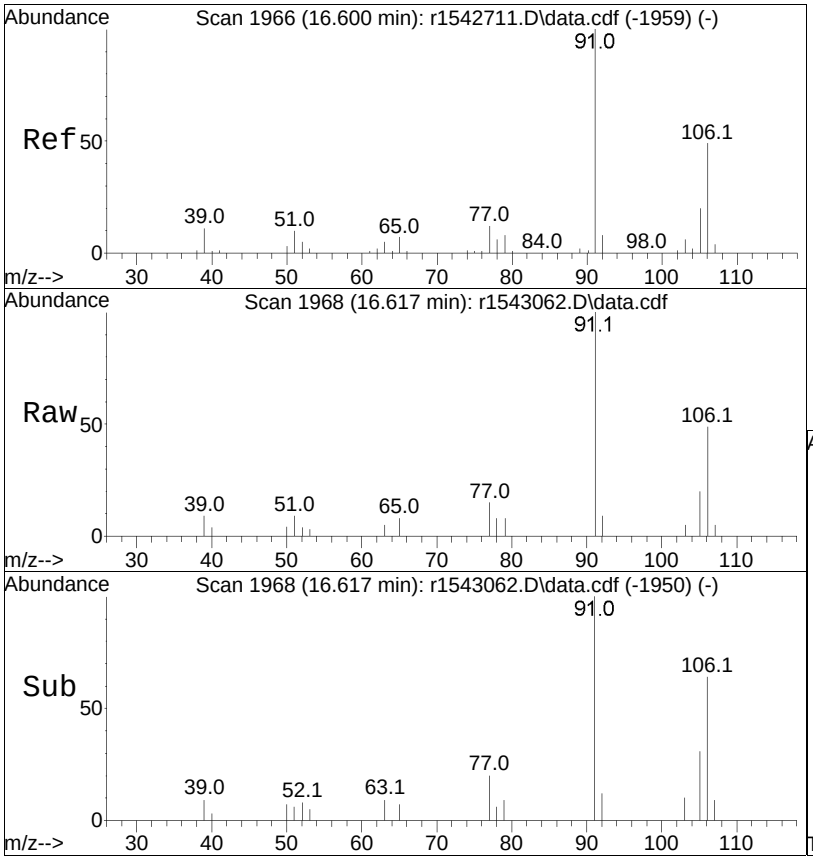


#81
ethylbenzene
Concen: 0.05 ppbV
RT: 16.467 min Scan# 1950
Delta R.T. -0.033 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 91 Resp: 4665

Ion	Ratio	Lower	Upper
91	100		
106	32.3	27.7	41.5

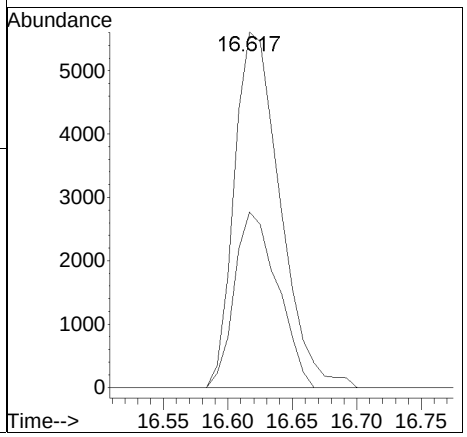


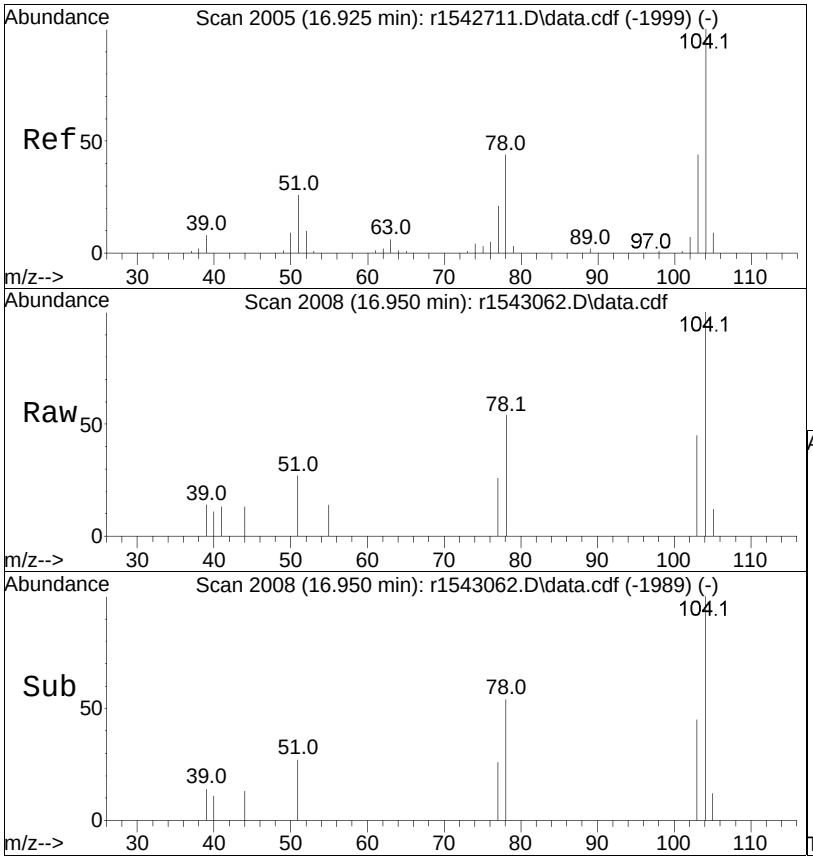


#83
m+p-xylene
Concen: 0.20 ppbV
RT: 16.617 min Scan# 1968
Delta R.T. -0.050 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 91 Resp: 13818

Ion	Ratio	Lower	Upper
91	100		
106	49.4	42.7	64.1

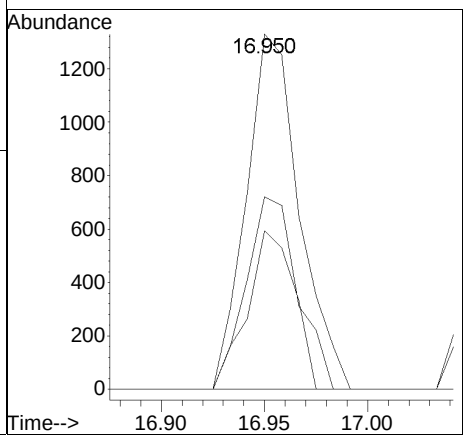


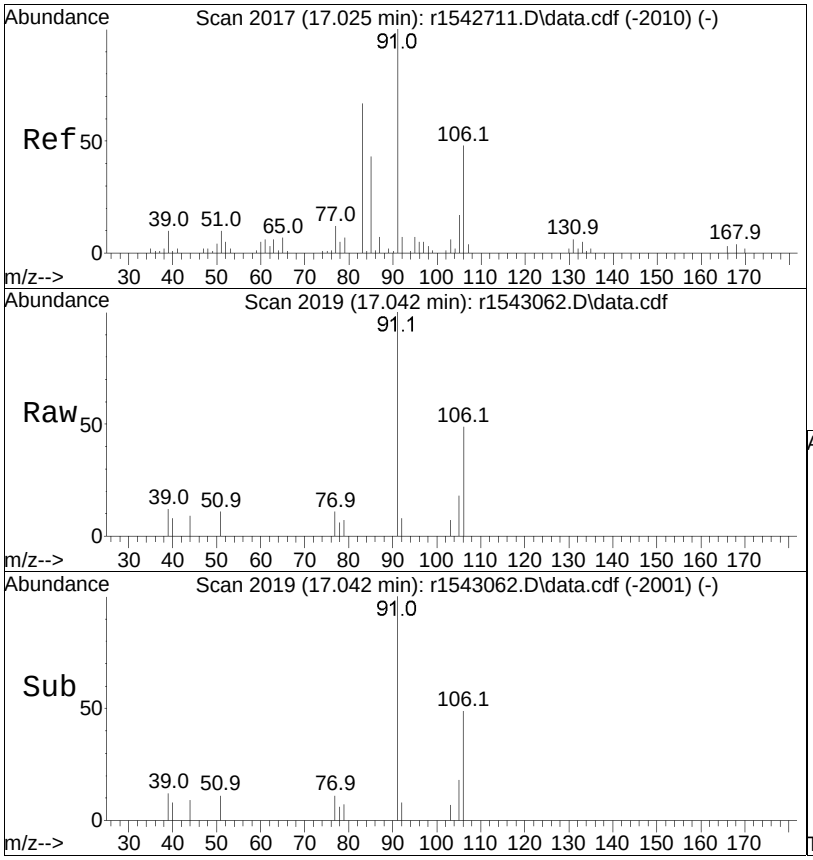


#85
styrene
Concen: 0.04 ppbV
RT: 16.950 min Scan# 2008
Delta R.T. -0.042 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion:104 Resp: 2388

Ion	Ratio	Lower	Upper
104	100		
103	44.7	34.9	52.3
78	54.2	36.2	54.4

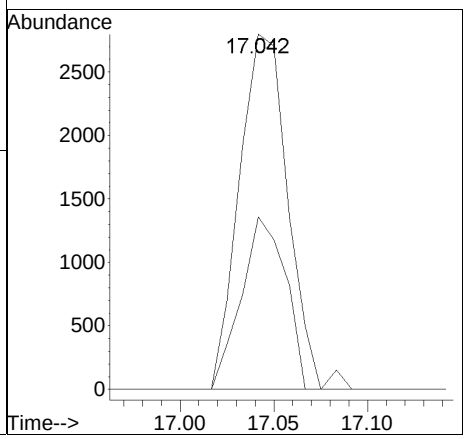


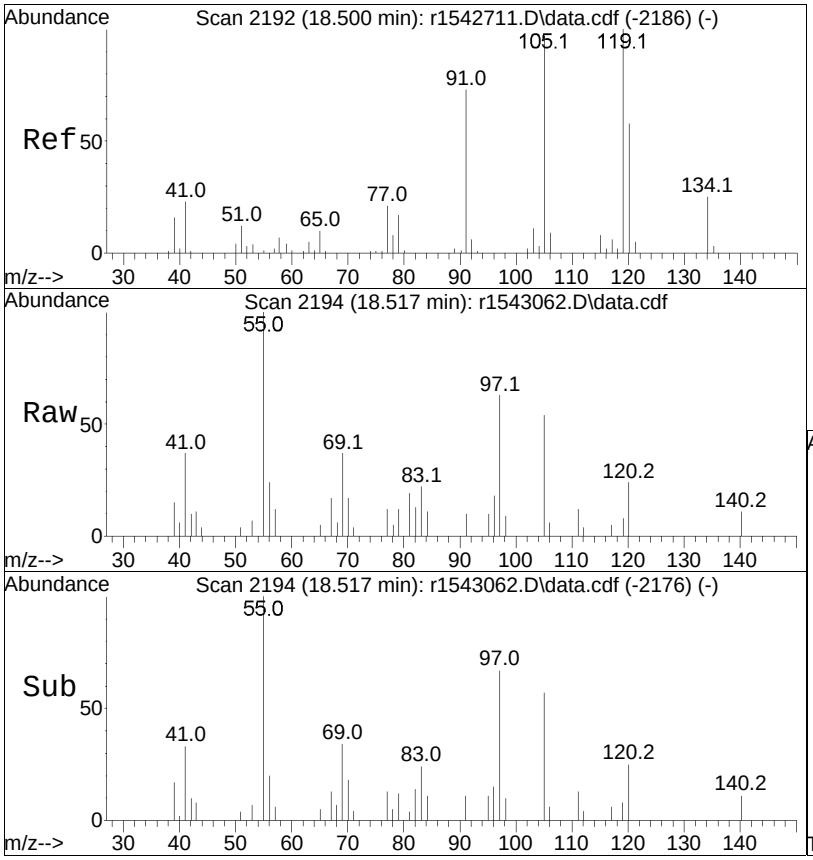


#87
o-xylene
Concen: 0.07 ppbV
RT: 17.042 min Scan# 2019
Delta R.T. -0.050 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion: 91 Resp: 5064

Ion	Ratio	Lower	Upper
91	100		
106	48.6	40.0	60.0

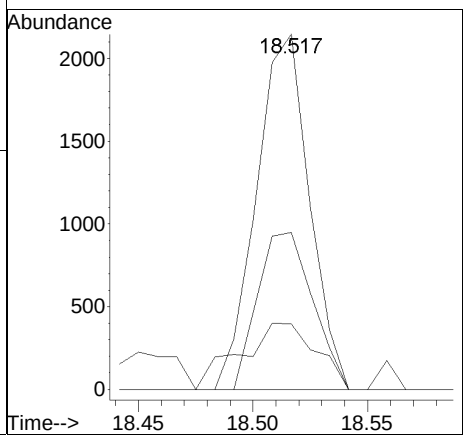




#99
1,2,4-trimethylbenzene
Concen: 0.05 ppbV
RT: 18.517 min Scan# 2194
Delta R.T. -0.050 min
Lab File: r1543062.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion:105 Resp: 3456

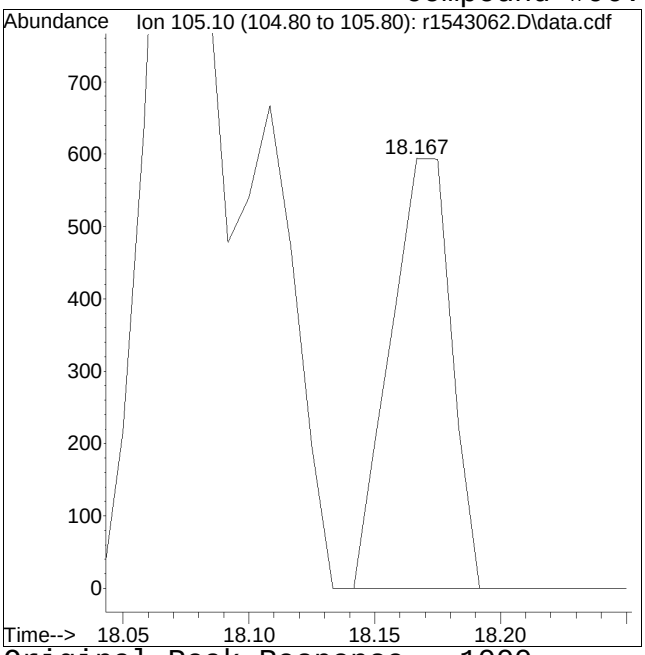
Ion	Ratio	Lower	Upper
105	100		
120	44.2	51.8	77.6#
91	18.4	58.3	87.5#

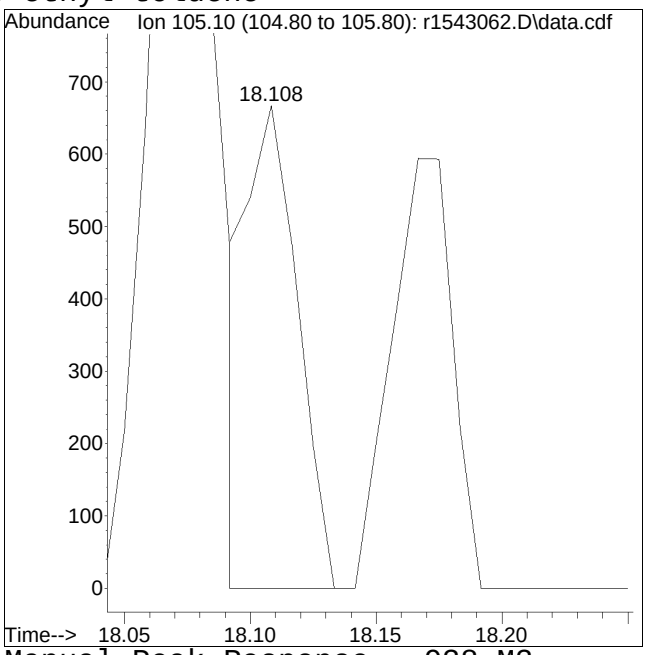


Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543062.D Operator : AIRLAB15:KJD
Date Inj'd : 2/27/2020 0:1: 9 Instrument :
Sample : L2409206-12,3,250,250 Quant Date : 2/27/2024 7:24 am

Compound #96: 4-ethyl toluene





Original Peak Response = 1000 Manual Peak Response = 938 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543063.D
Acq On : 27 Feb 2024 1:52 AM
Operator : AIRLAB15:KJD
Sample : L2409206-14,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:24:33 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.167	49	223892	10.000	ppbV		0.00
Standard Area = 240397			Recovery = 93.13%				
43) 1,4-difluorobenzene	11.393	114	612921	10.000	ppbV	#	0.00
Standard Area = 687087			Recovery = 89.21%				
67) chlorobenzene-D5	16.075	54	117783	10.000	ppbV		-0.03
Standard Area = 126242			Recovery = 93.30%				
System Monitoring Compounds							
Target Compounds							Qvalue
5) dichlorodifluoromethane	4.030	85	13431	0.527	ppbV		95
6) chloromethane	4.192	50	5569	0.581	ppbV		99
7) Freon-114	4.306		0	N.D.			
10) 1,3-butadiene	0.000		0	N.D.	d		
13) bromomethane	0.000		0	N.D.	d		
14) chloroethane	0.000		0	N.D.			
15) ethanol	5.212	31	30648	3.638	ppbV		90
17) vinyl bromide	0.000		0	N.D.	d		
19) acetone	5.713	43	6585M6	0.521	ppbV		
21) trichlorofluoromethane	5.890	101	5135	0.269	ppbV		86
22) isopropyl alcohol	6.040	45	4945	0.311	ppbV	#	83
27) tertiary butyl alcohol	6.720	59	5231	0.194	ppbV	#	69
28) methylene chloride	6.744	49	3592	0.208	ppbV		84
29) 3-chloropropene	0.000		0	N.D.			
30) carbon disulfide	0.000		0	N.D.			
31) Freon 113	7.044	101	1825	0.073	ppbV		92
32) trans-1,2-dichloroethene	7.800	61	874	0.040	ppbV	#	71
33) 1,1-dichloroethane	0.000		0	N.D.			
34) MTBE	0.000		0	N.D.			
36) 2-butanone	8.517	43	2908	0.098	ppbV	#	87
38) Ethyl Acetate	0.000		0	N.D.			
39) chloroform	9.308		0	N.D.			
40) Tetrahydrofuran	9.808	42	2711	0.146	ppbV	#	87
42) 1,2-dichloroethane	10.150		0	N.D.			
44) hexane	9.225	57	1920	0.072	ppbV	#	16
50) benzene	10.973	78	7357	0.148	ppbV		98
53) cyclohexane	11.287		0	N.D.			
56) 1,2-dichloropropane	11.913		0	N.D.			

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543063.D
Acq On : 27 Feb 2024 1:52 AM
Operator : AIRLAB15:KJD
Sample : L2409206-14,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:24:33 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

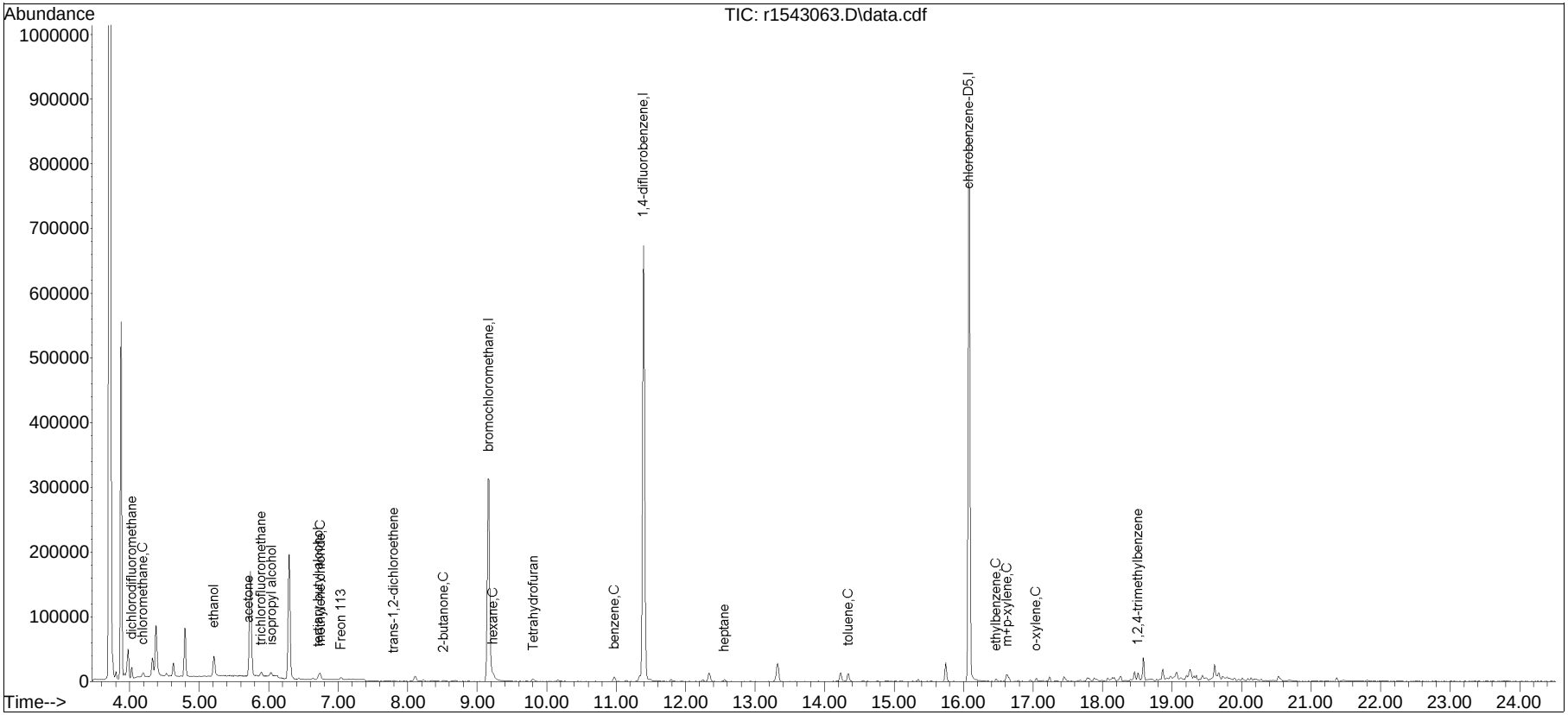
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.247		0	N.D.		
62) heptane	12.553	43	1193	0.040	ppbV #	85
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D. d		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.342	91	10304	0.153	ppbV	98
72) 2-hexanone	0.000		0	N.D. d		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.467	91	3669	0.042	ppbV	89
83) m+p-xylene	16.625	91	9782	0.143	ppbV	88
84) bromoform	0.000		0	N.D.		
85) styrene	16.958		0	N.D.		
86) 1,1,2,2-tetrachloroethane	17.092		0	N.D.		
87) o-xylene	17.042	91	3625	0.053	ppbV	87
96) 4-ethyl toluene	18.108		0	N.D.		
97) 1,3,5-trimethylbenzene	18.167		0	N.D.		
99) 1,2,4-trimethylbenzene	18.508	105	2777	0.036	ppbV #	55
101) Benzyl Chloride	0.000		0	N.D. d		
102) 1,3-dichlorobenzene	0.000		0	N.D. d		
103) 1,4-dichlorobenzene	0.000		0	N.D. d		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

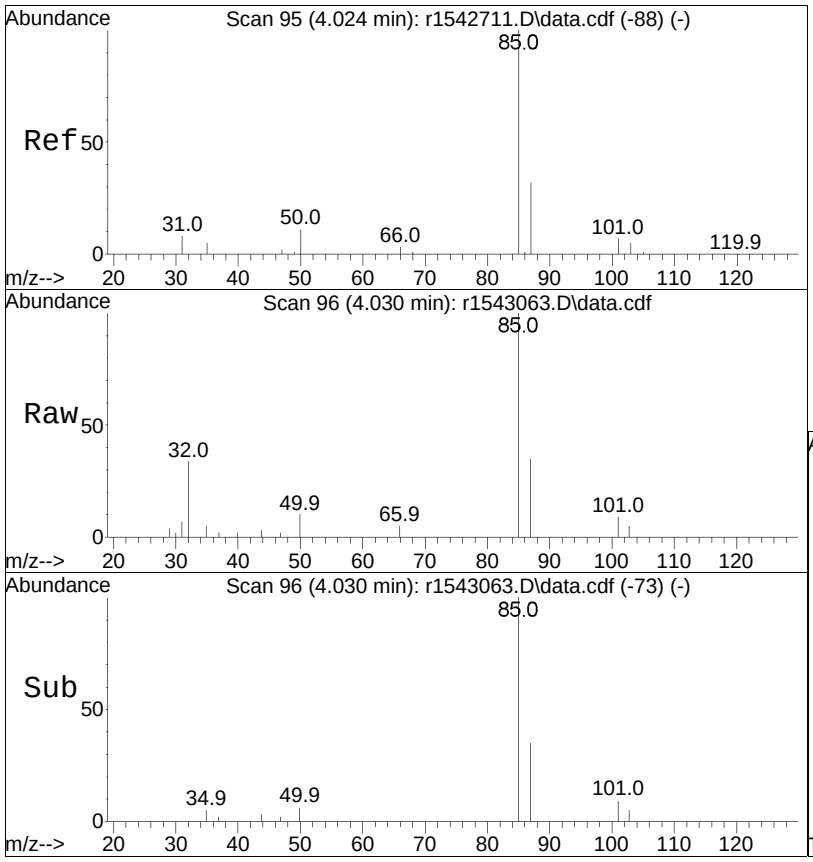
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab15\2024\02\0226T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543063.D
Acq On : 27 Feb 2024 1:52 AM
Operator : AIRLAB15:KJD
Sample : L2409206-14,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:24:33 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

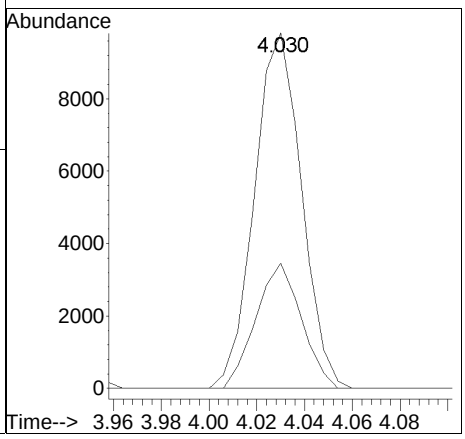


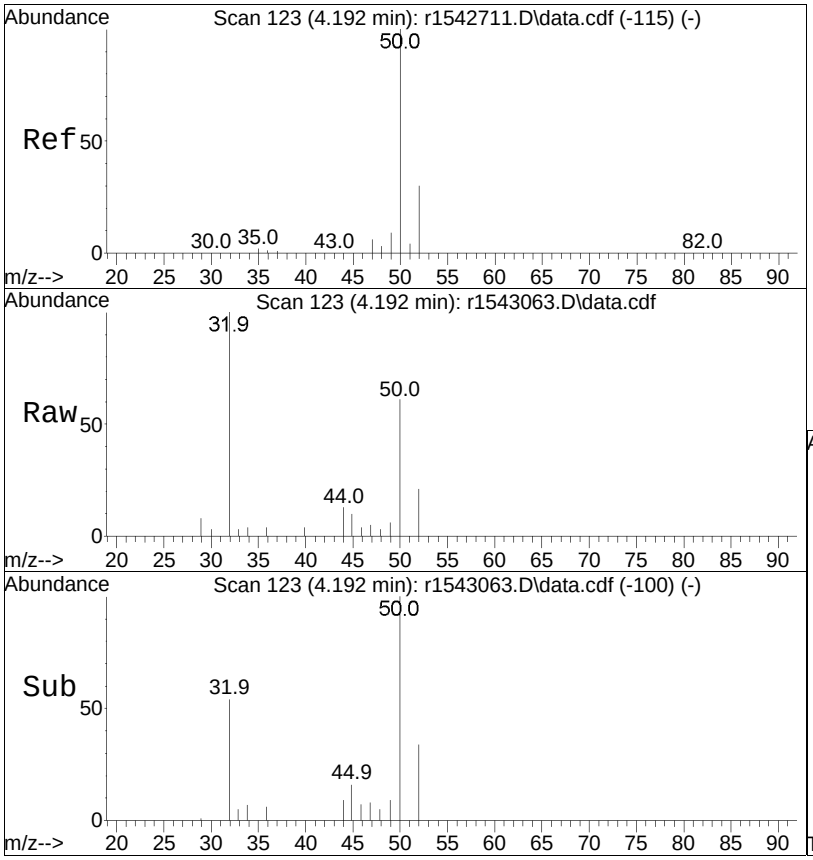


#5
dichlorodifluoromethane
Concen: 0.53 ppbV
RT: 4.030 min Scan# 96
Delta R.T. -0.064 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 85 Resp: 13431

Ion	Ratio	Lower	Upper
85	100		
87	35.2	26.1	39.1

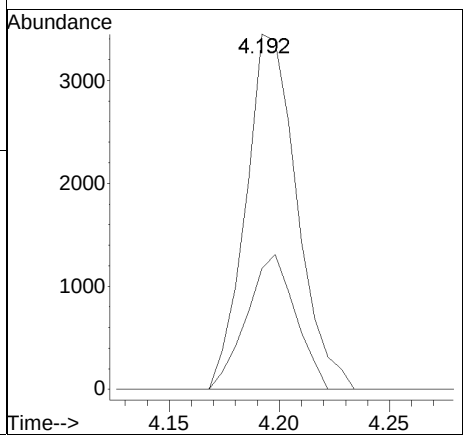


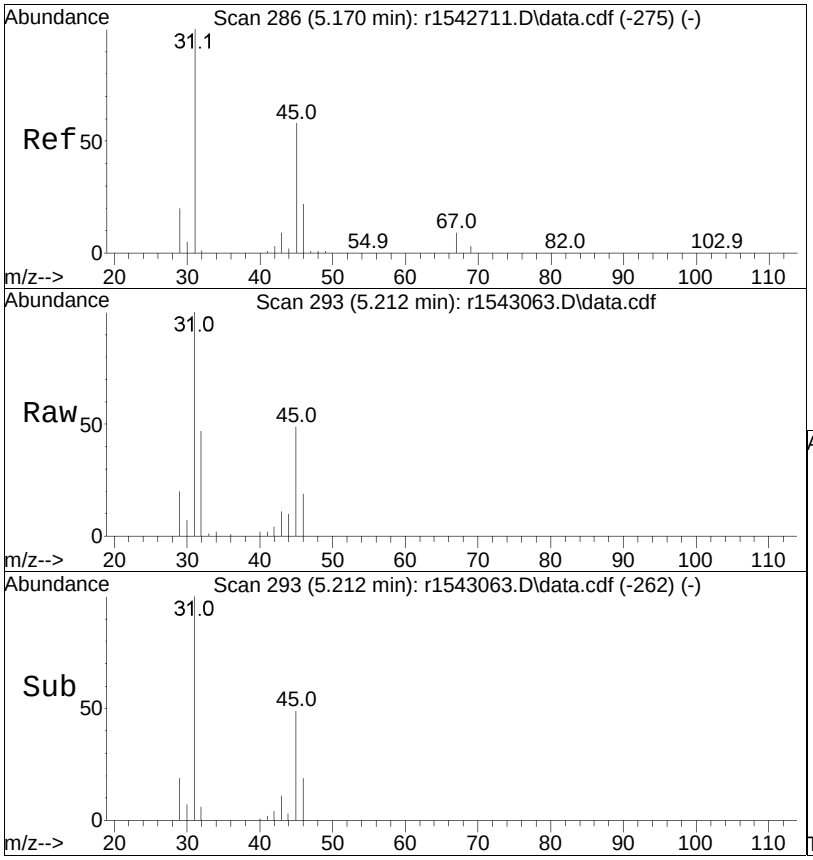


#6
chloromethane
Concen: 0.58 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.064 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 50 Resp: 5569

Ion	Ratio	Lower	Upper
50	100		
52	34.0	27.4	41.2

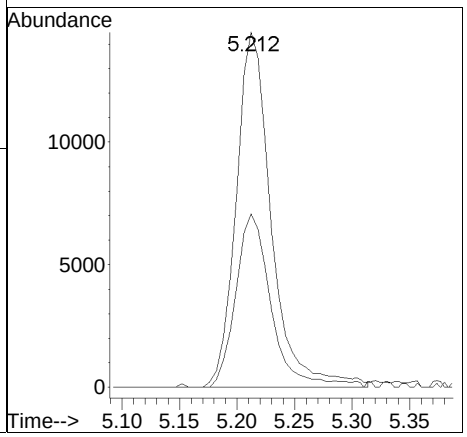


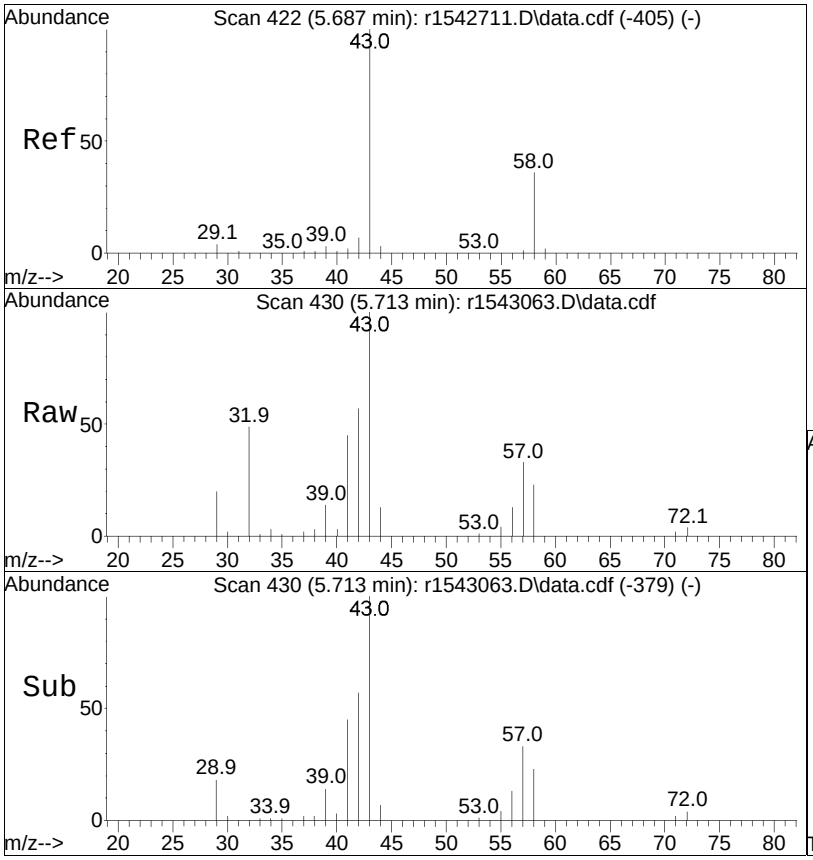


#15
ethanol
Concen: 3.64 ppbV
RT: 5.212 min Scan# 293
Delta R.T. -0.016 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 31 Resp: 30648

Ion	Ratio	Lower	Upper
31	100		
45	48.9	34.2	51.2

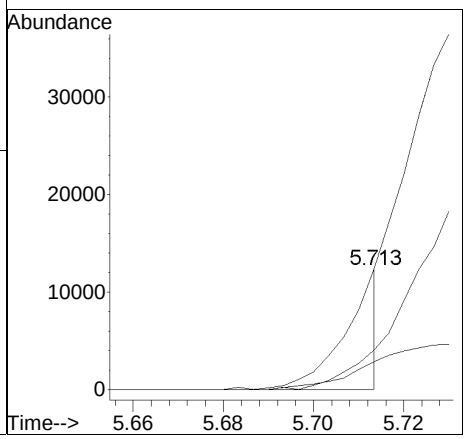


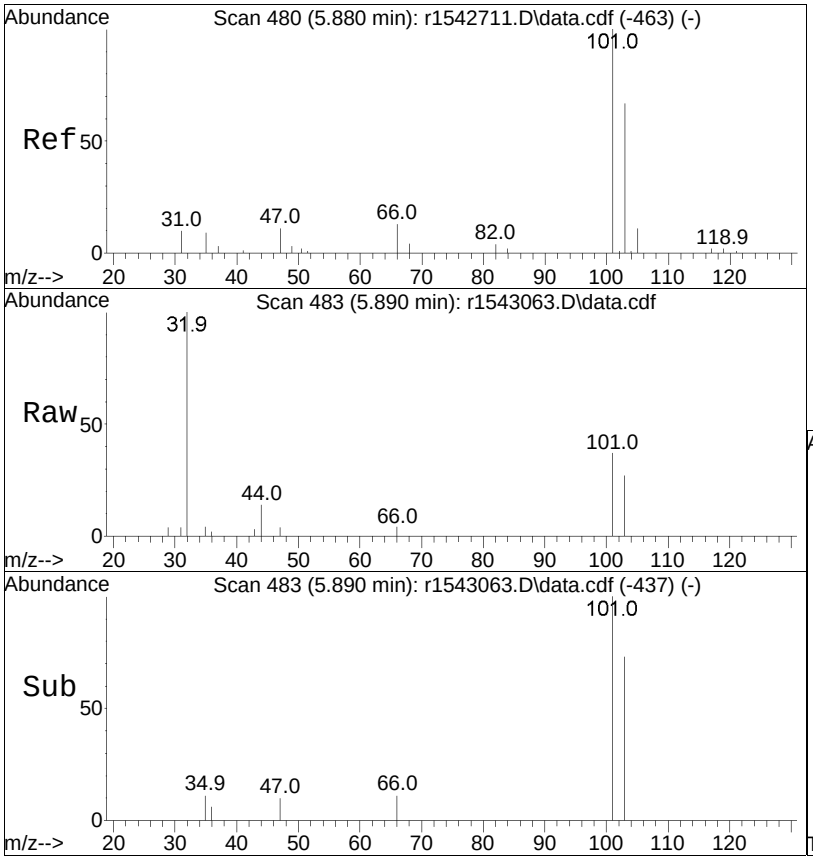


#19
acetone
Concen: 0.52 ppbV m
RT: 5.713 min Scan# 430
Delta R.T. -0.030 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 43 Resp: 6585

Ion	Ratio	Lower	Upper
43	100		
58	23.1	39.0	58.4#
57	32.7	0.9	1.3#

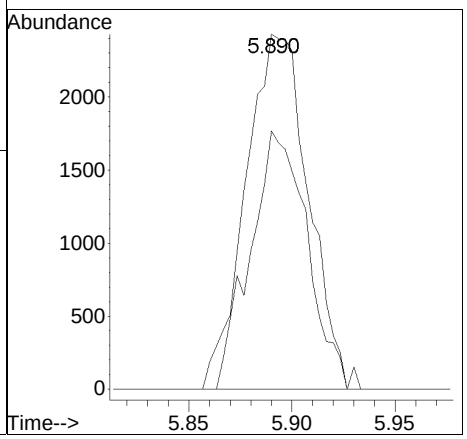


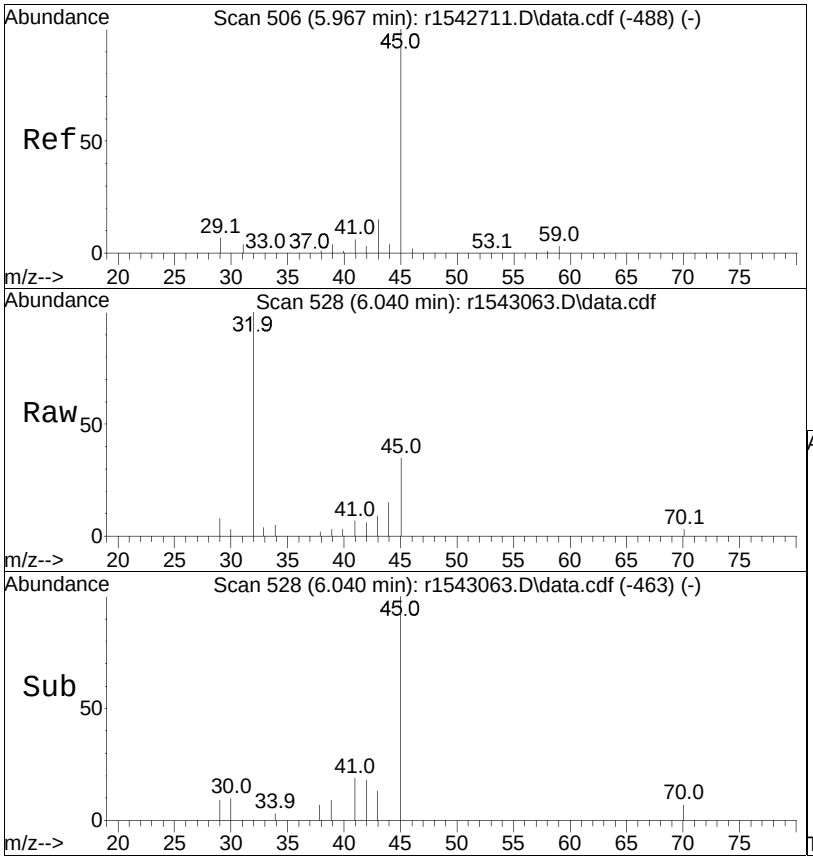


#21
trichlorofluoromethane
Concen: 0.27 ppbV
RT: 5.890 min Scan# 483
Delta R.T. -0.047 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion:101 Resp: 5135

Ion	Ratio	Lower	Upper
101	100		
103	72.7	49.4	74.0

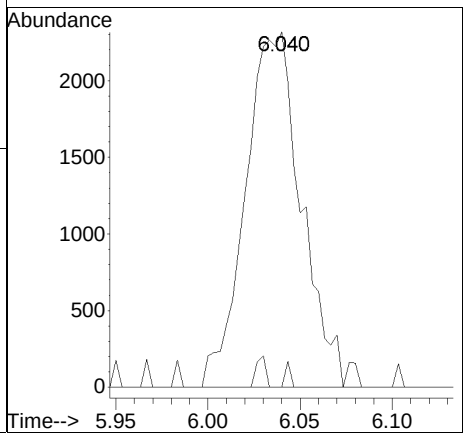


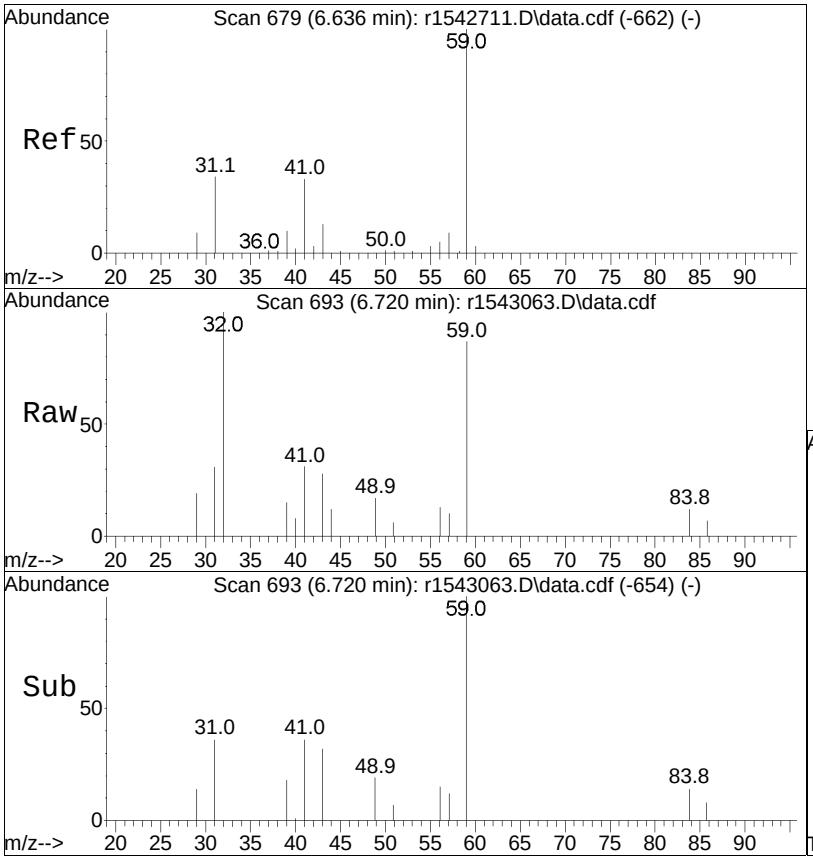


#22
isopropyl alcohol
Concen: 0.31 ppbV
RT: 6.040 min Scan# 528
Delta R.T. 0.017 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 45 Resp: 4945

Ion	Ratio	Lower	Upper
45	100		
59	0.0	4.6	6.8#

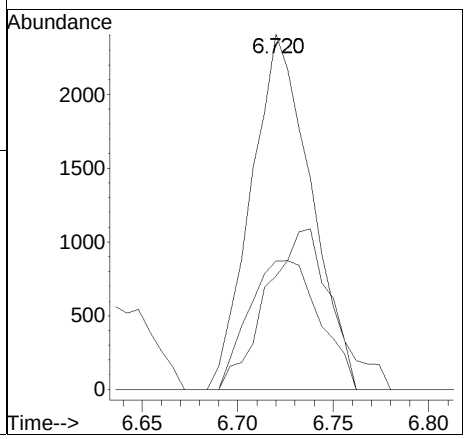


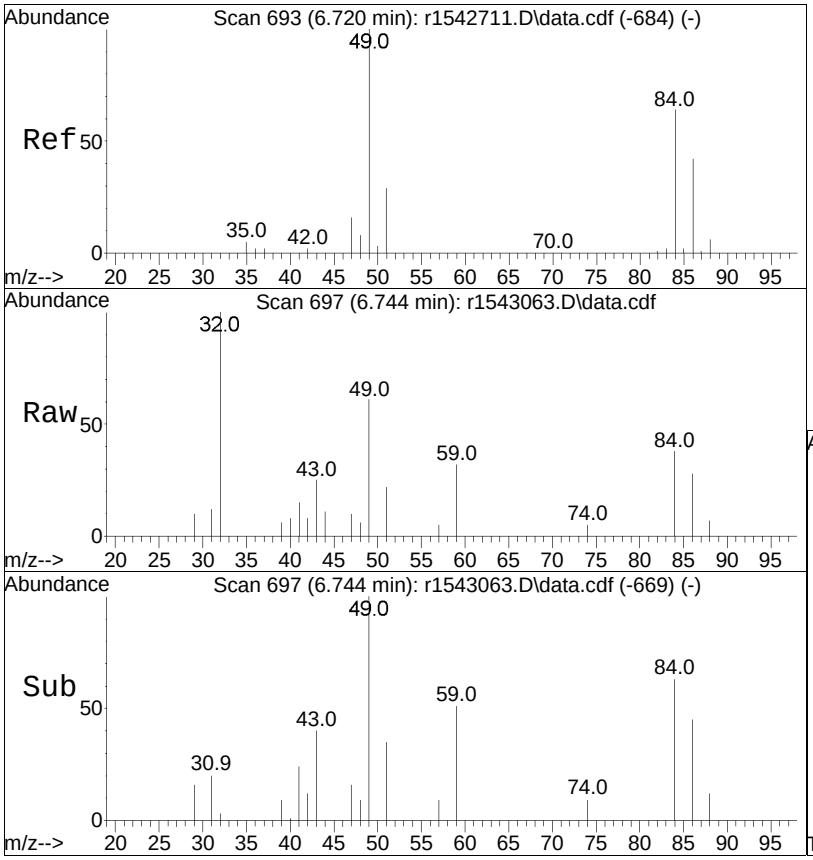


#27
tertiary butyl alcohol
Concen: 0.19 ppbV
RT: 6.720 min Scan# 693
Delta R.T. 0.032 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 59 Resp: 5231

Ion	Ratio	Lower	Upper
59	100		
41	36.1	21.0	31.4#
43	31.9	7.7	11.5#

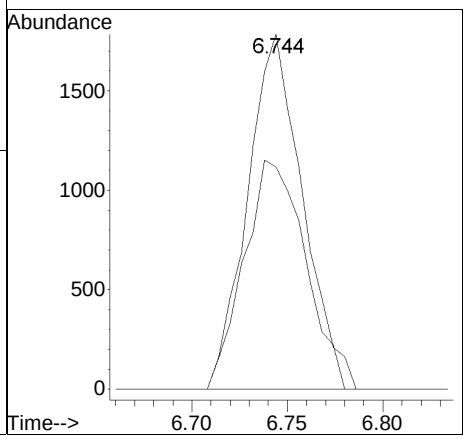


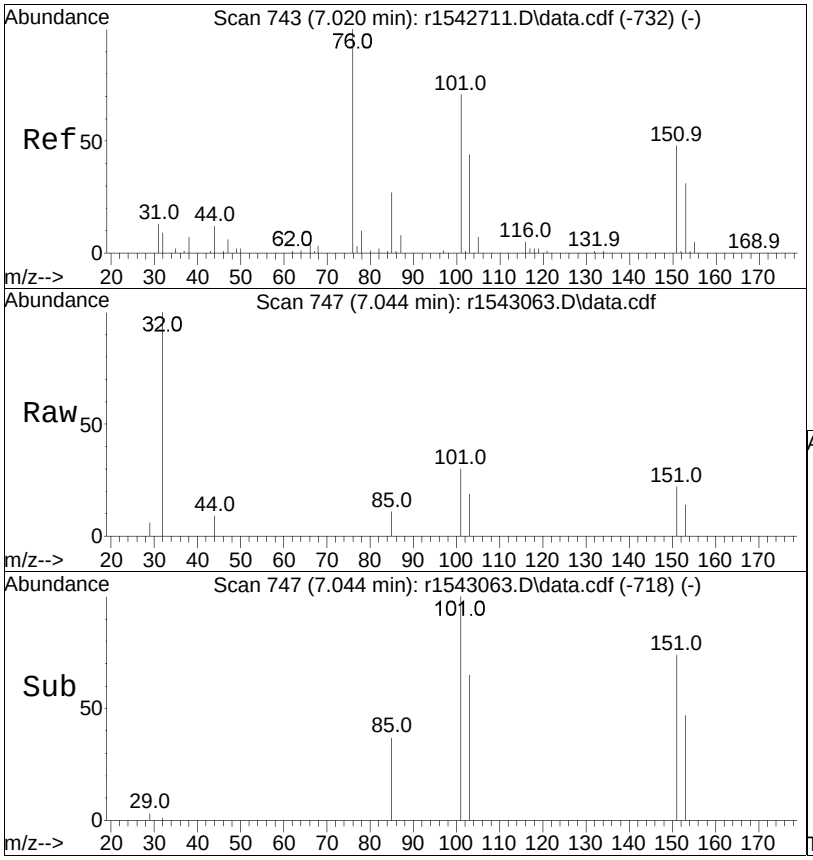


#28
methylene chloride
Concen: 0.21 ppbV
RT: 6.744 min Scan# 697
Delta R.T. -0.034 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 49 Resp: 3592

Ion	Ratio	Lower	Upper
49	100		
84	62.6	61.2	91.8

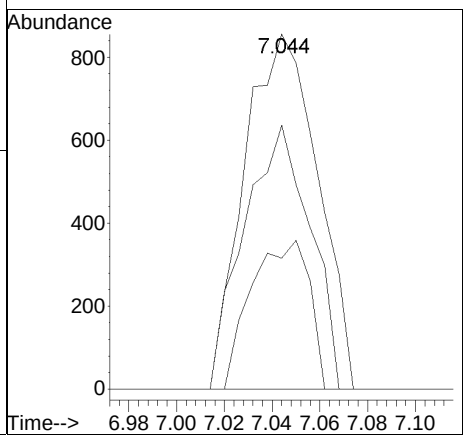


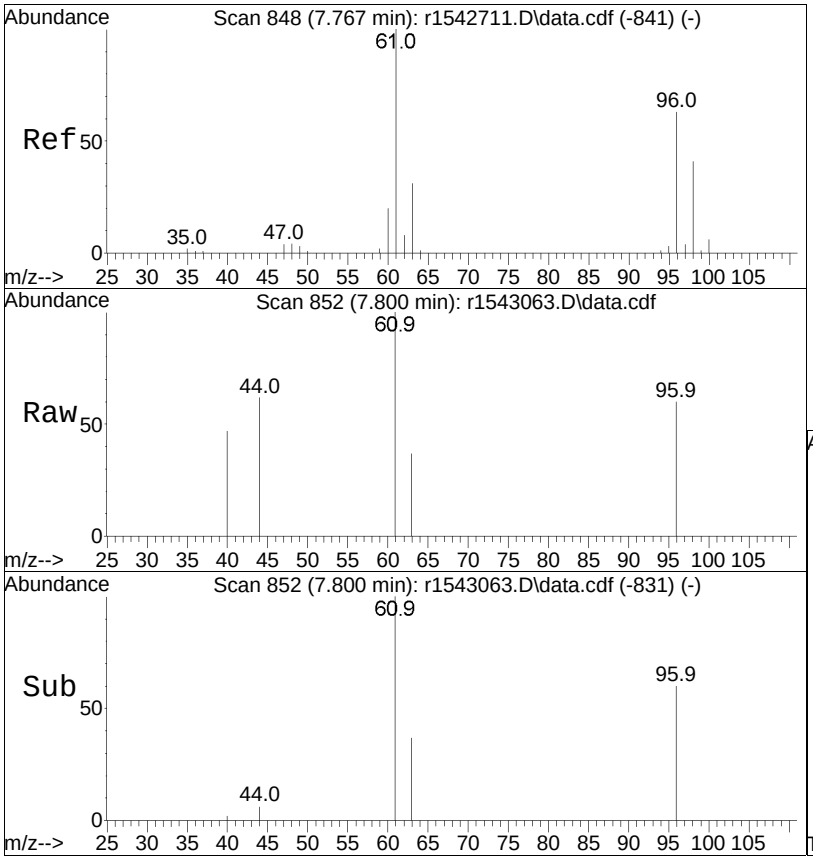


#31
Freon 113
Concen: 0.07 ppbV
RT: 7.044 min Scan# 747
Delta R.T. -0.028 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion:101 Resp: 1825

Ion	Ratio	Lower	Upper
101	100		
85	36.9	35.3	52.9
151	74.3	63.8	95.8

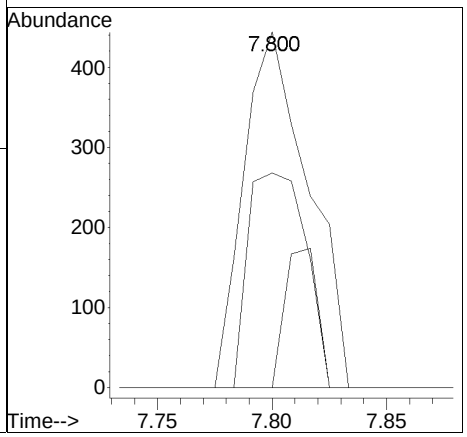


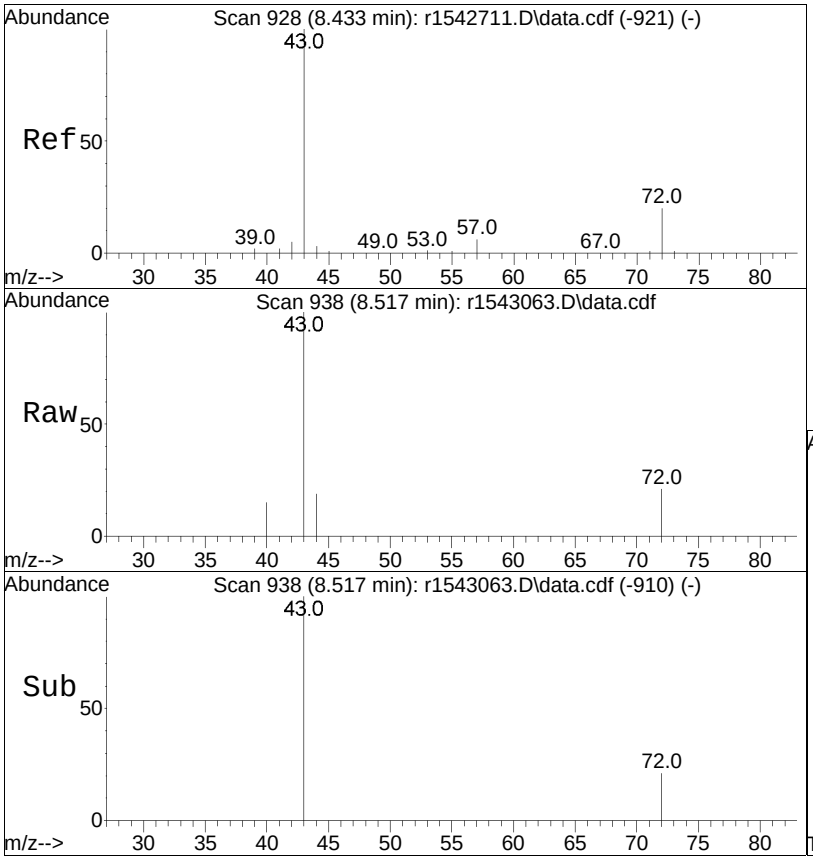


#32
trans-1,2-dichloroethene
Concen: 0.04 ppbV
RT: 7.800 min Scan# 852
Delta R.T. -0.025 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 61 Resp: 874

Ion	Ratio	Lower	Upper
61	100		
96	60.4	52.2	78.4
98	0.0	33.0	49.4#

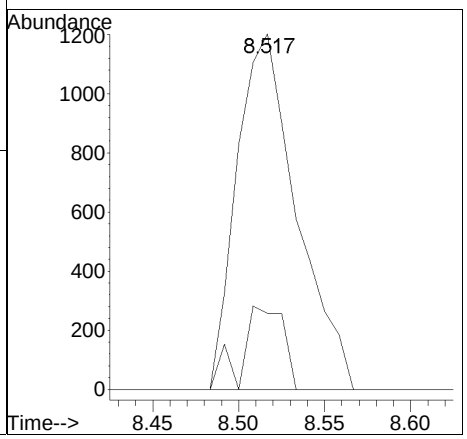


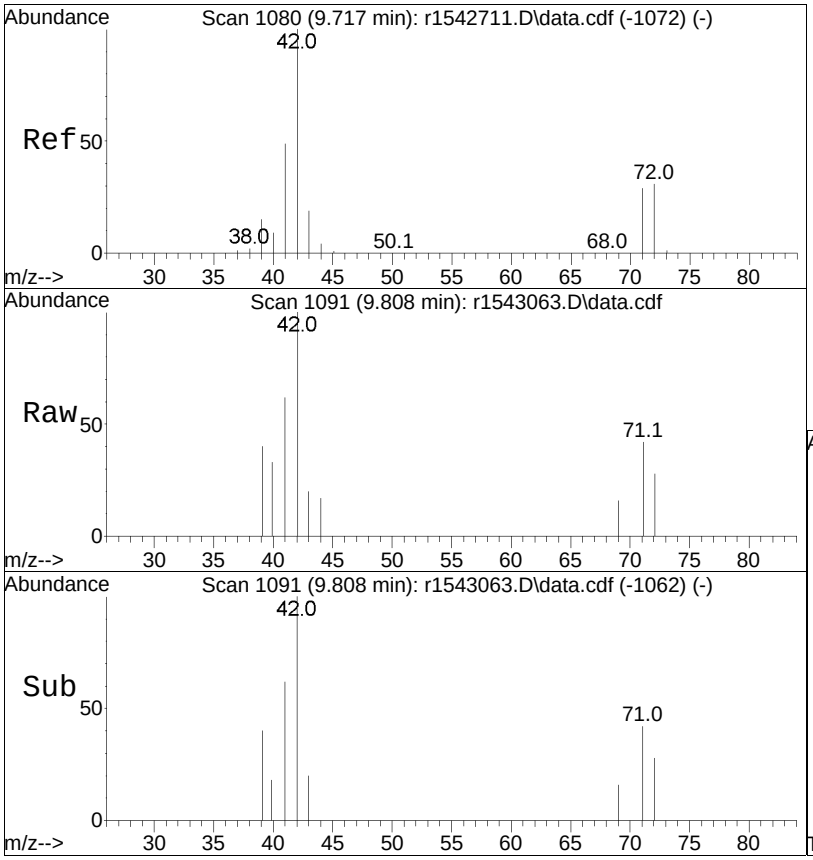


#36
2-butanone
Concen: 0.10 ppbV
RT: 8.517 min Scan# 938
Delta R.T. 0.033 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 43 Resp: 2908

Ion	Ratio	Lower	Upper
43	100		
72	21.5	21.0	31.4
57	0.0	7.1	10.7#

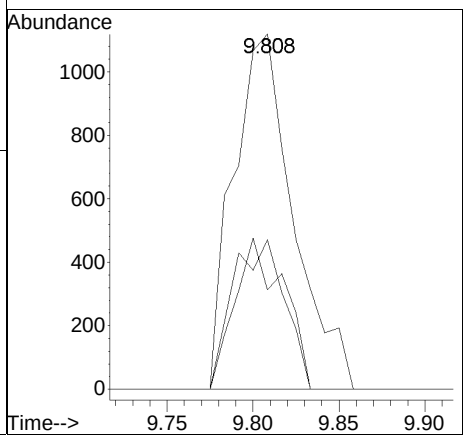


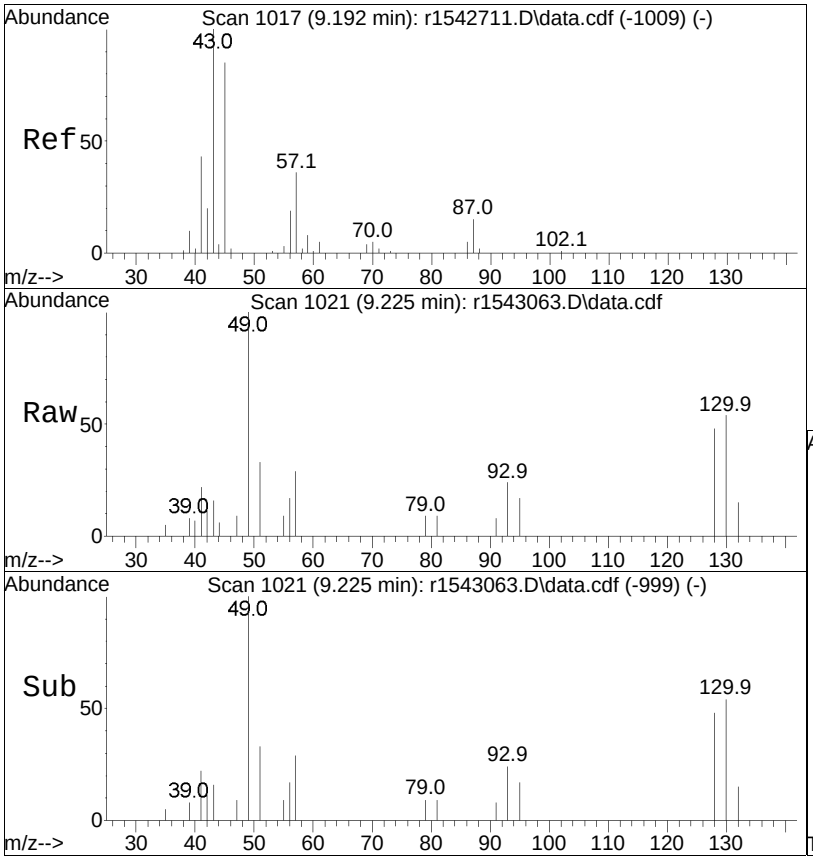


#40
Tetrahydrofuran
Concen: 0.15 ppbV
RT: 9.808 min Scan# 1091
Delta R.T. 0.042 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 42 Resp: 2711

Ion	Ratio	Lower	Upper
42	100		
71	42.1	30.6	46.0
72	28.0	32.5	48.7#

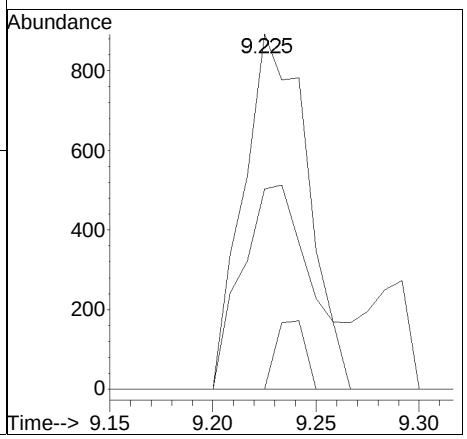


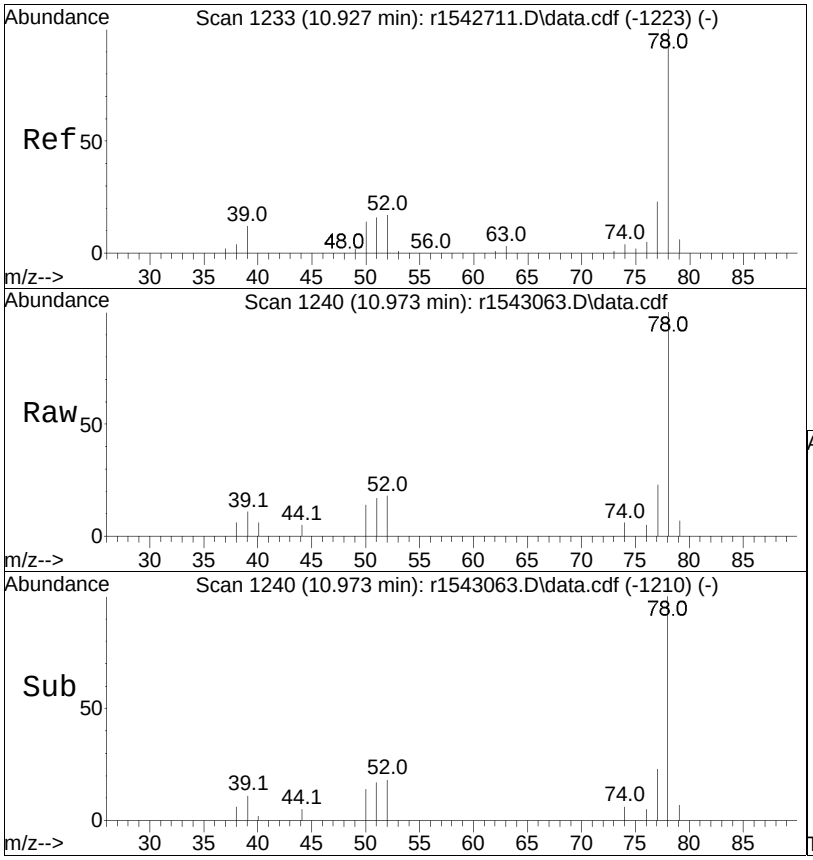


#44
hexane
Concen: 0.07 ppbV
RT: 9.225 min Scan# 1021
Delta R.T. -0.017 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 57 Resp: 1920

Ion	Ratio	Lower	Upper
57	100		
43	56.4	146.8	220.2#
86	0.0	12.7	19.1#

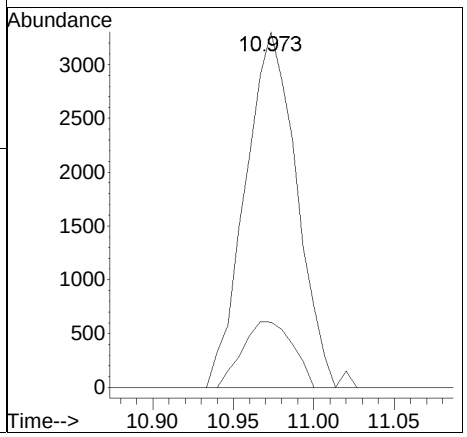


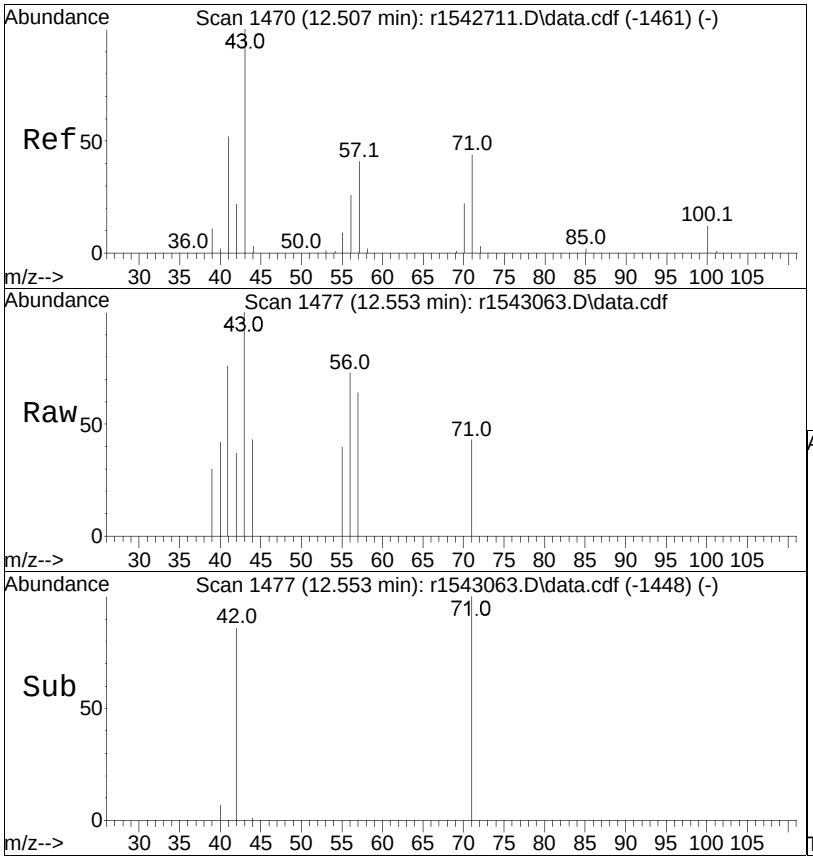


#50
benzene
Concen: 0.15 ppbV
RT: 10.973 min Scan# 1240
Delta R.T. 0.000 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 78 Resp: 7357

Ion	Ratio	Lower	Upper
78	100		
52	18.4	14.1	21.1

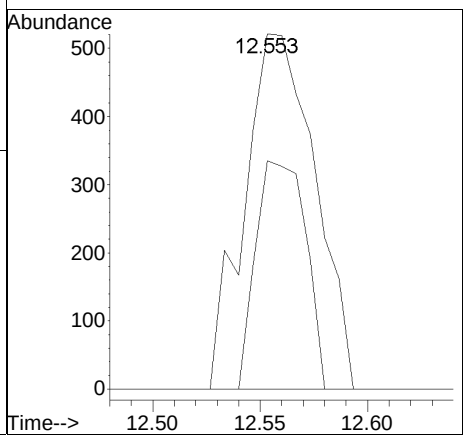


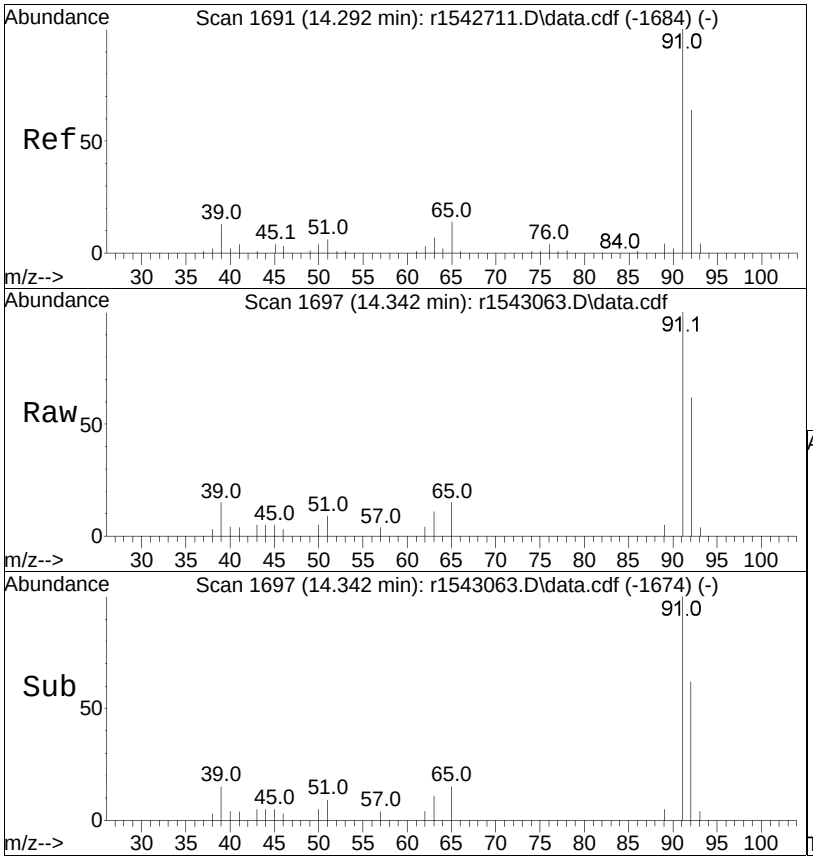


#62
heptane
Concen: 0.04 ppbV
RT: 12.553 min Scan# 1477
Delta R.T. -0.007 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 43 Resp: 1193

Ion	Ratio	Lower	Upper
43	100		
57	64.3	46.6	70.0
100	0.0	13.3	19.9#

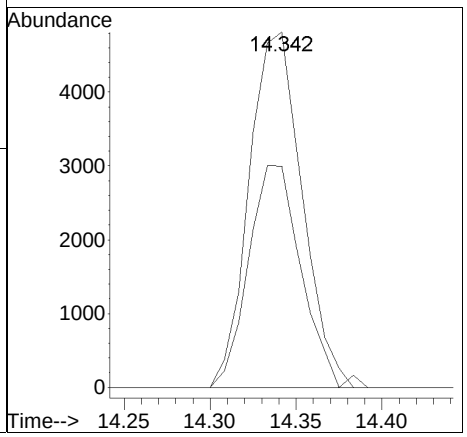


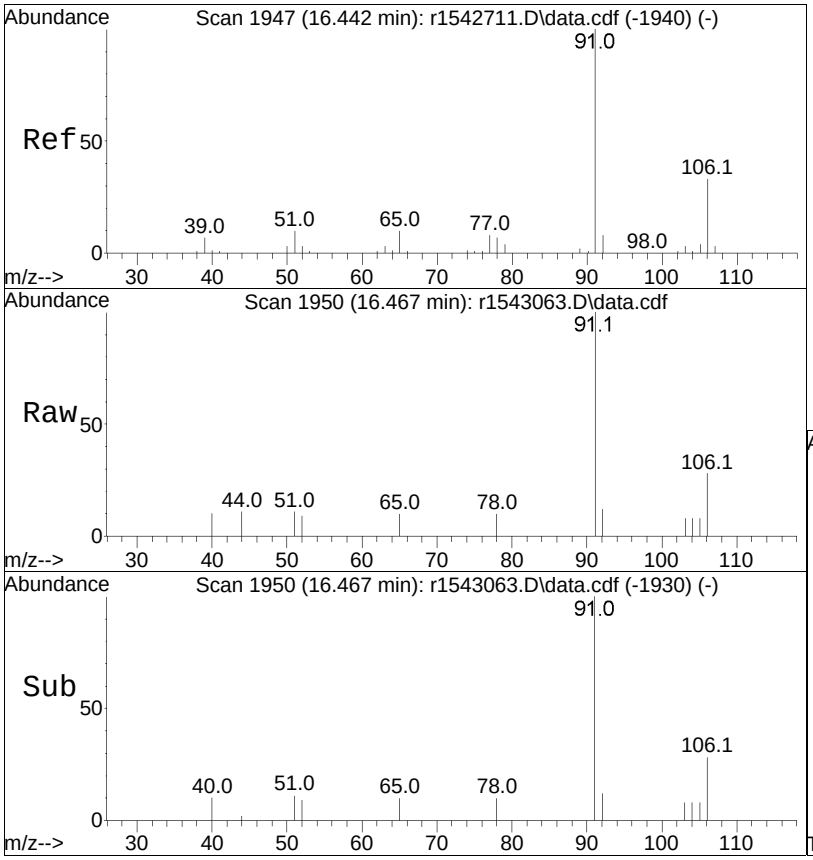


#68
toluene
Concen: 0.15 ppbV
RT: 14.342 min Scan# 1697
Delta R.T. -0.008 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 91 Resp: 10304

Ion	Ratio	Lower	Upper
91	100		
92	62.3	51.0	76.4

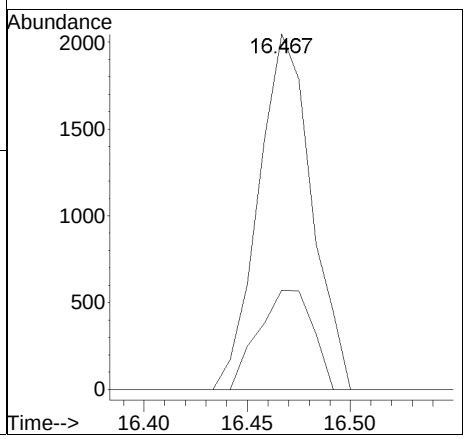


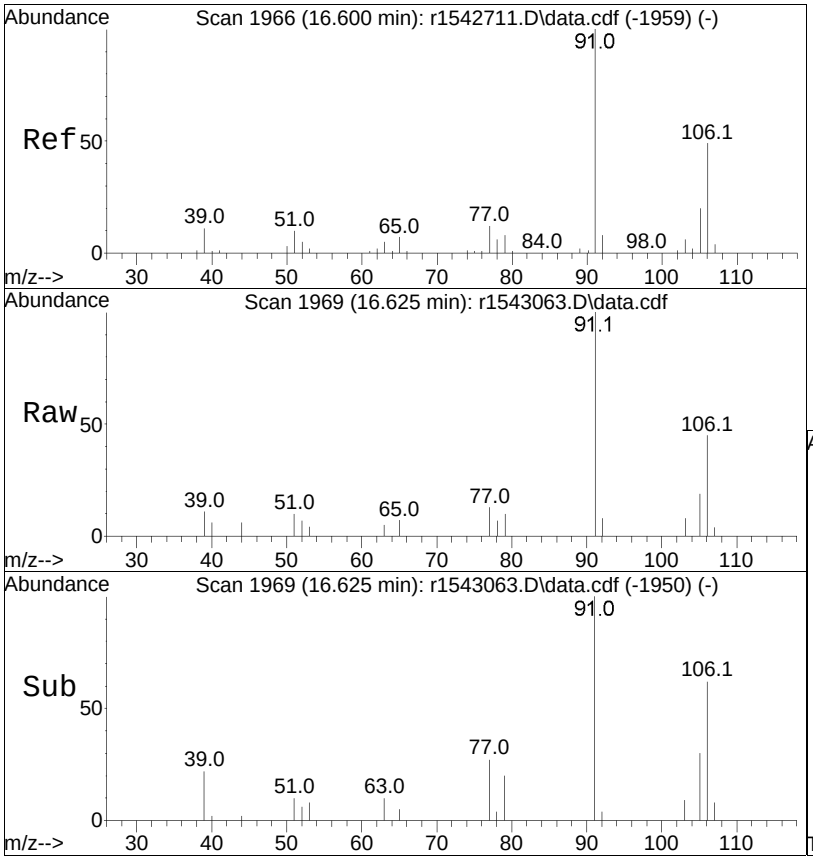


#81
ethylbenzene
Concen: 0.04 ppbV
RT: 16.467 min Scan# 1950
Delta R.T. -0.033 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 91 Resp: 3669

Ion	Ratio	Lower	Upper
91	100		
106	28.0	27.7	41.5

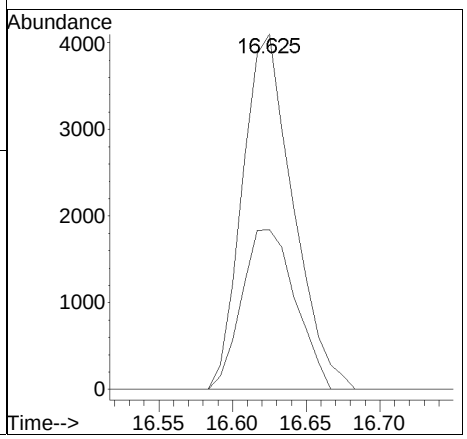


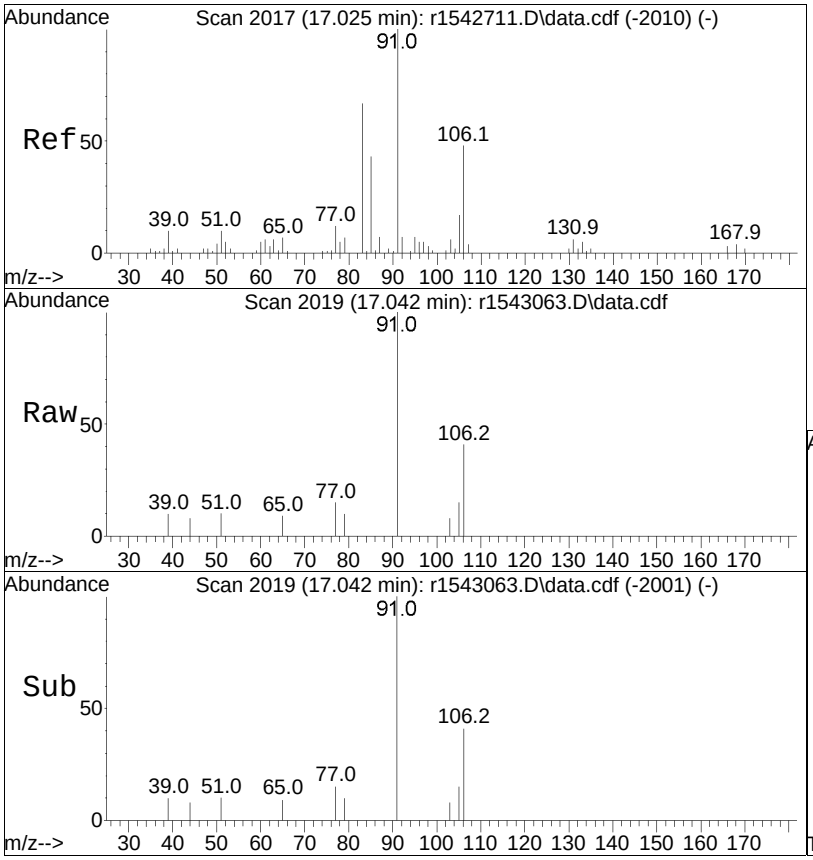


#83
m+p-xylene
Concen: 0.14 ppbV
RT: 16.625 min Scan# 1969
Delta R.T. -0.042 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 91 Resp: 9782

Ion	Ratio	Lower	Upper
91	100		
106	45.0	42.7	64.1

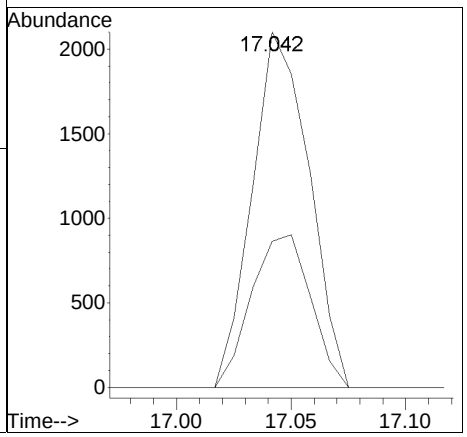


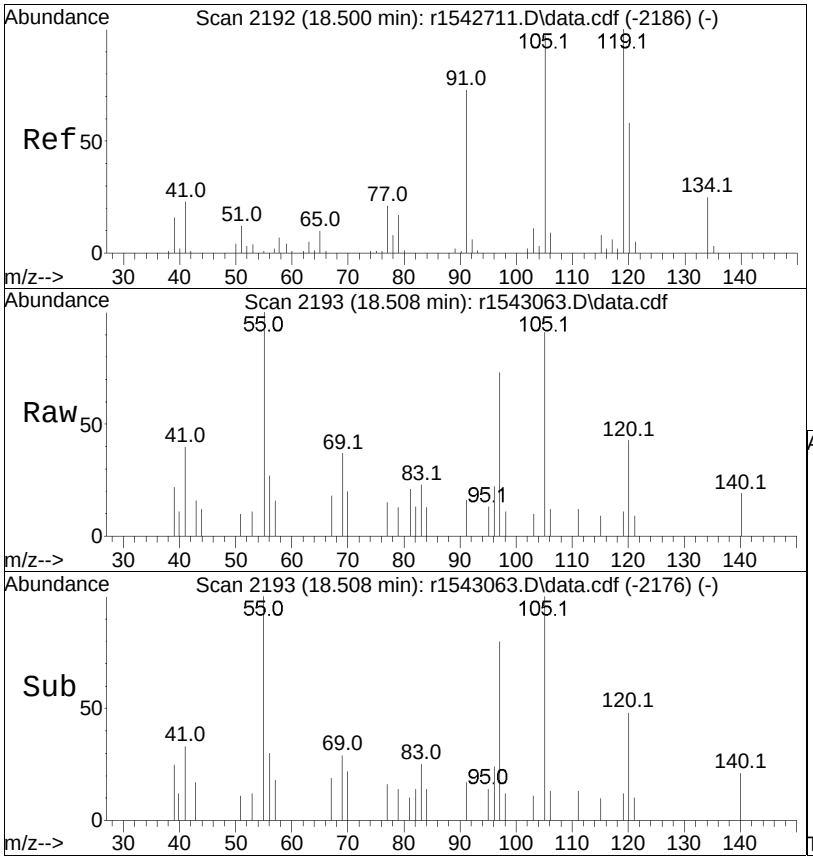


#87
o-xylene
Concen: 0.05 ppbV
RT: 17.042 min Scan# 2019
Delta R.T. -0.050 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion: 91 Resp: 3625

Ion	Ratio	Lower	Upper
91	100		
106	41.1	40.0	60.0

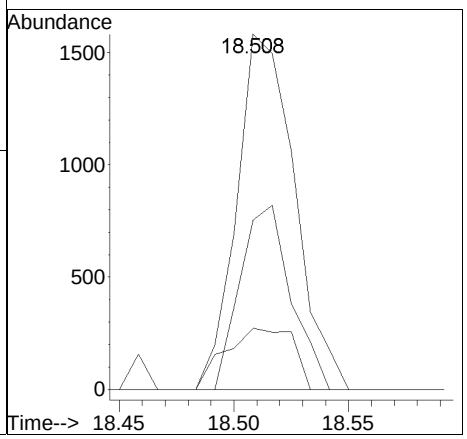




#99
1,2,4-trimethylbenzene
Concen: 0.04 ppbV
RT: 18.508 min Scan# 2193
Delta R.T. -0.058 min
Lab File: r1543063.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion:105 Resp: 2777

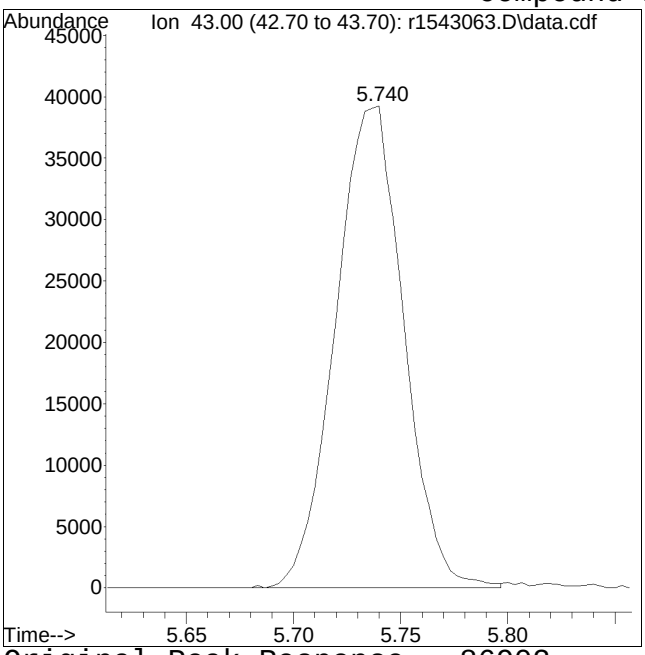
Ion	Ratio	Lower	Upper
105	100		
120	47.7	51.8	77.6#
91	17.3	58.3	87.5#



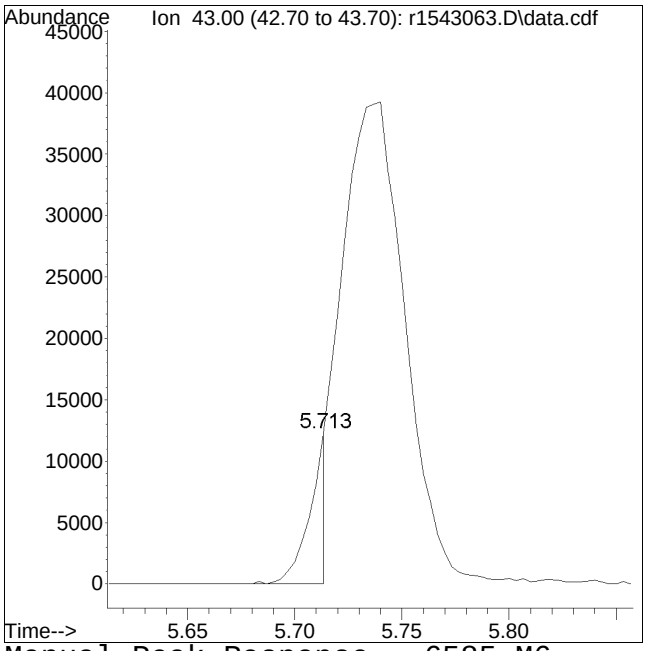
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543063.D Operator : AIRLAB15:KJD
Date Inj'd : 2/27/2020 0:1: 2 Instrument :
Sample : L2409206-14,3,250,250 Quant Date : 2/27/2024 7:24 am

Compound #19: acetone



Original Peak Response = 86902



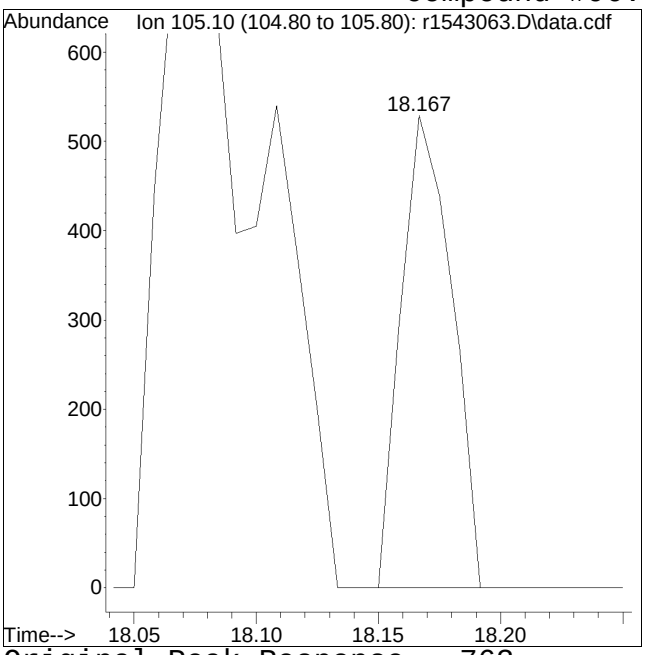
Manual Peak Response = 6585 M6

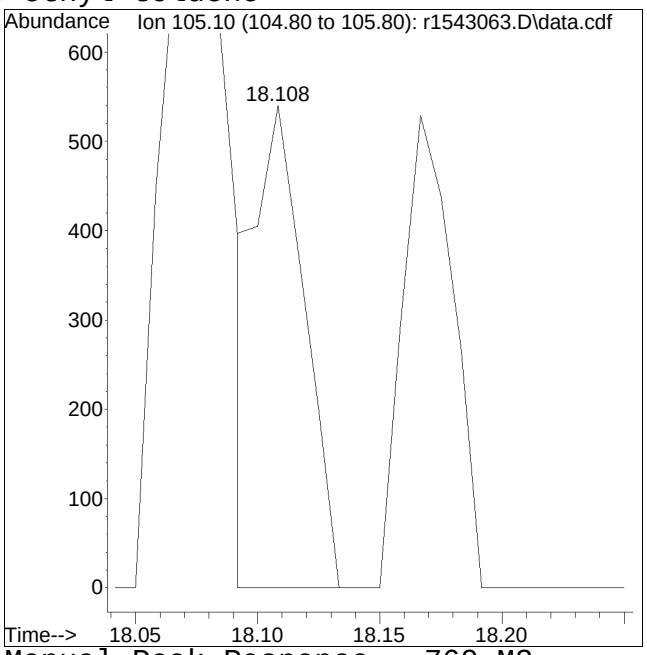
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543063.D Operator : AIRLAB15:KJD
Date Inj'd : 2/27/2020 0:1: 2 Instrument :
Sample : L2409206-14,3,250,250 Quant Date : 2/27/2024 7:24 am

Compound #96: 4-ethyl toluene





Original Peak Response = 763 Manual Peak Response = 760 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222761.D
Acq On : 1 Mar 2024 5:47 PM
Operator : AIRLAB22:BJB
Sample : L2409206-01,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:05:53 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.437	49	194994	10.000	ppbV	-0.01
Standard Area = 199252			Recovery = 97.86%			
43) 1,4-difluorobenzene	5.363	114	609486	10.000	ppbV	-0.01
Standard Area = 623148			Recovery = 97.81%			
67) chlorobenzene-D5	7.333	54	82215	10.000	ppbV	#-0.01
Standard Area = 82823			Recovery = 99.27%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.205	85	6717	0.428	ppbV	100
6) chloromethane	2.305	50	5725	0.672	ppbV	100
7) Freon-114	2.365		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	2.480		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.745	31	23740	7.580	ppbV	99
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.968	43	32008M6	5.102	ppbV	
21) trichlorofluoromethane	3.049	101	2692	0.321	ppbV	97
22) isopropyl alcohol	3.076	45	11247	1.081	ppbV	100
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	3.365	59	5997	0.256	ppbV #	90
28) methylene chloride	3.405	49	5205	0.337	ppbV	89
29) 3-chloropropene	3.410		0	N.D.		
30) carbon disulfide	3.545	76	8365	0.195	ppbV #	75
31) Freon 113	3.530	101	1593	0.068	ppbV	94
32) trans-1,2-dichloroethene	3.850		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	3.983		0	N.D.		
36) 2-butanone	4.143	43	9752	0.308	ppbV	97
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	4.497	83	3511	0.157	ppbV	95
40) Tetrahydrofuran	4.690	42	14875	0.738	ppbV	95
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	4.457	57	3067	0.142	ppbV #	2

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222761.D
Acq On : 1 Mar 2024 5:47 PM
Operator : AIRLAB22:BJB
Sample : L2409206-01,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:05:53 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	5.197	78	4764	0.105	ppbV #	92
52) carbon tetrachloride	5.263	117	1244	0.082	ppbV	100
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	5.690		0	N.D.		
60) 2,2,4-trimethylpentane	0.000		0	N.D. d		
62) heptane	5.830	43	3046	0.112	ppbV	97
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	6.107	43	2706	0.090	ppbV	96
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	6.493		0	N.D.		
68) toluene	6.533	91	35005	0.510	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.		
78) tetrachloroethene	7.040	166	2232	0.084	ppbV #	94
80) chlorobenzene	0.000		0	N.D. d		
81) ethylbenzene	7.520	91	19385	0.234	ppbV	97
83) m+p-xylene	7.593	91	55207	0.855	ppbV	95
84) bromoform	0.000		0	N.D.		
85) styrene	7.767	104	3517	0.061	ppbV #	91
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D. d		
87) o-xylene	7.813	91	23375	0.371	ppbV	92
96) 4-ethyl toluene	8.413	105	9269M3	0.099	ppbV	
97) 1,3,5-trimethylbenzene	8.453	105	13076	0.171	ppbV #	91
99) 1,2,4-trimethylbenzene	8.663	105	33737	0.463	ppbV #	56
101) Benzyl Chloride	8.803		0	N.D.		
102) 1,3-dichlorobenzene	8.777		0	N.D.		
103) 1,4-dichlorobenzene	8.777		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	9.842		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\Airlab22\2024\03\0301T\
Data File : r222761.D
Acq On : 1 Mar 2024 5:47 PM
Operator : AIRLAB22:BJB
Sample : L2409206-01,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:05:53 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

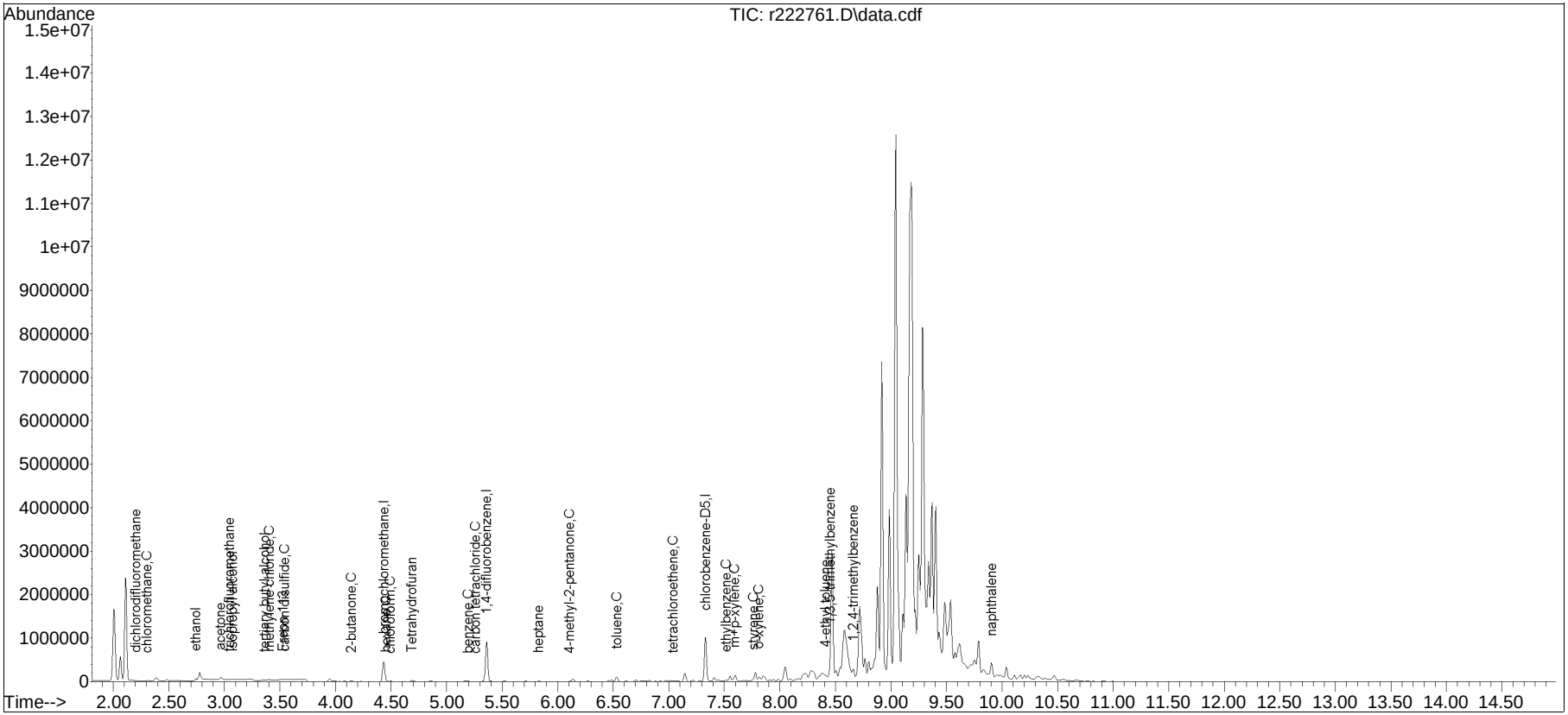
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

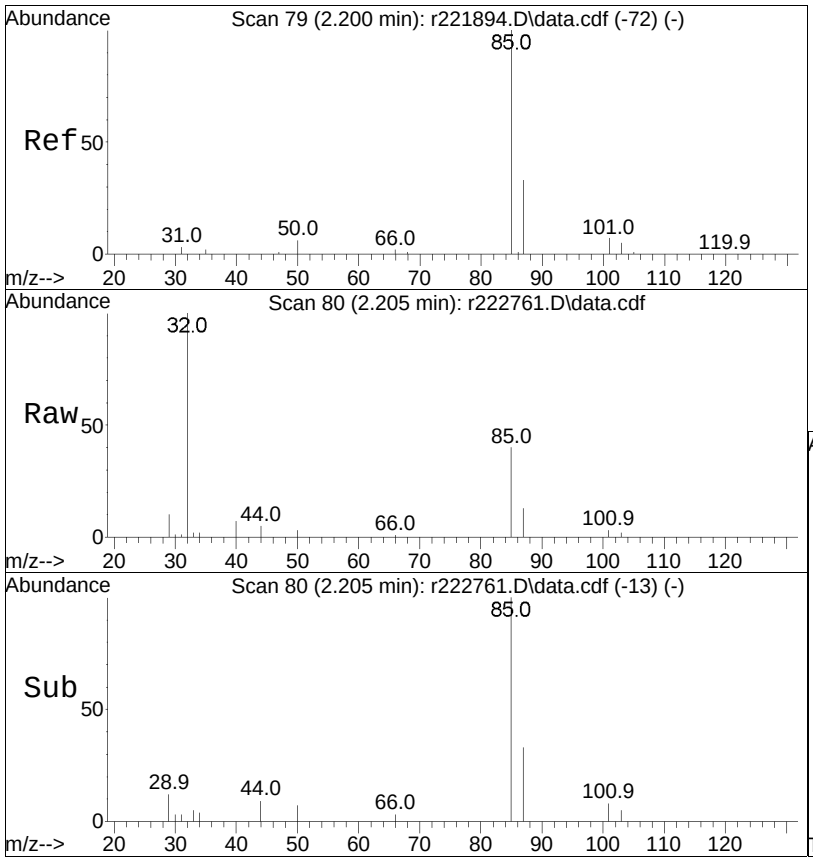
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : TO15-NY+Naphthalene - .b22\2024\03\0301T\r222756.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222761.D
Acq On : 1 Mar 2024 5:47 PM
Operator : AIRLAB22:BJB
Sample : L2409206-01,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:05:53 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

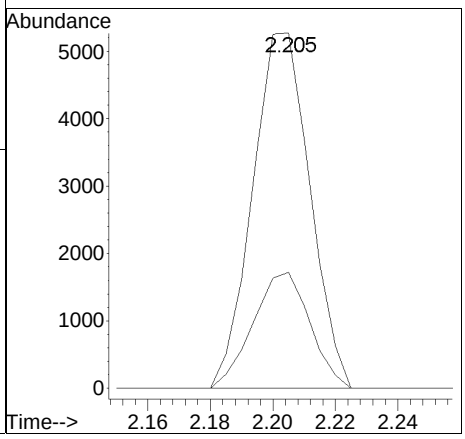


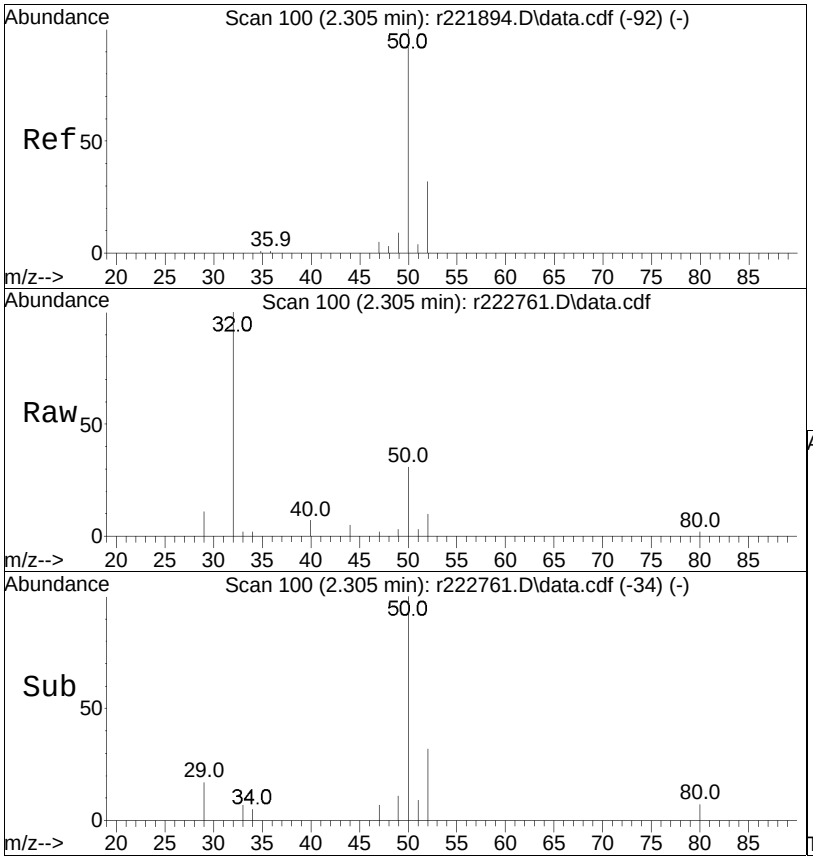


#5
dichlorodifluoromethane
Concen: 0.43 ppbV
RT: 2.205 min Scan# 80
Delta R.T. 0.005 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 85 Resp: 6717

Ion	Ratio	Lower	Upper
85	100		
87	32.7	26.3	39.5

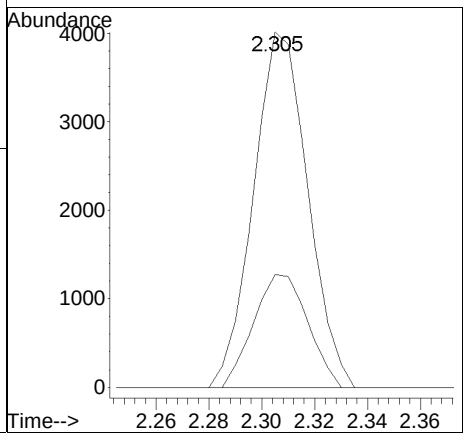


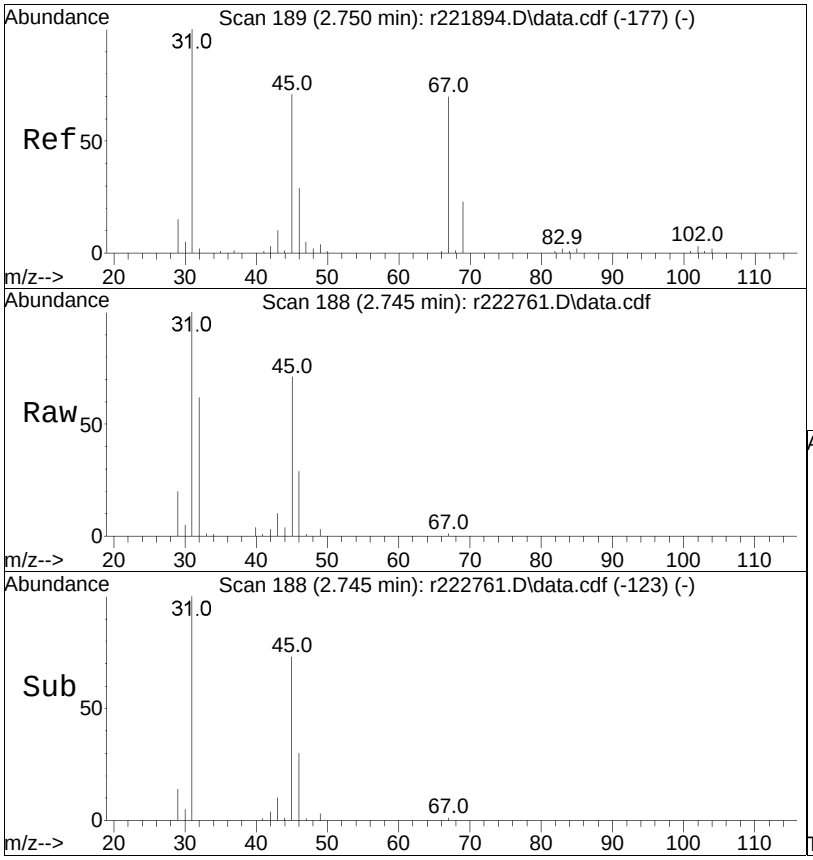


#6
chloromethane
Concen: 0.67 ppbV
RT: 2.305 min Scan# 100
Delta R.T. 0.000 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 50 Resp: 5725

Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.5	38.3

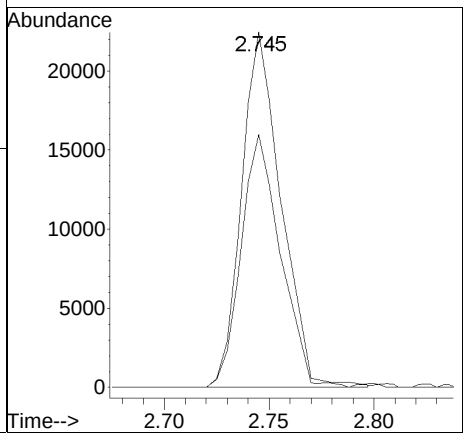


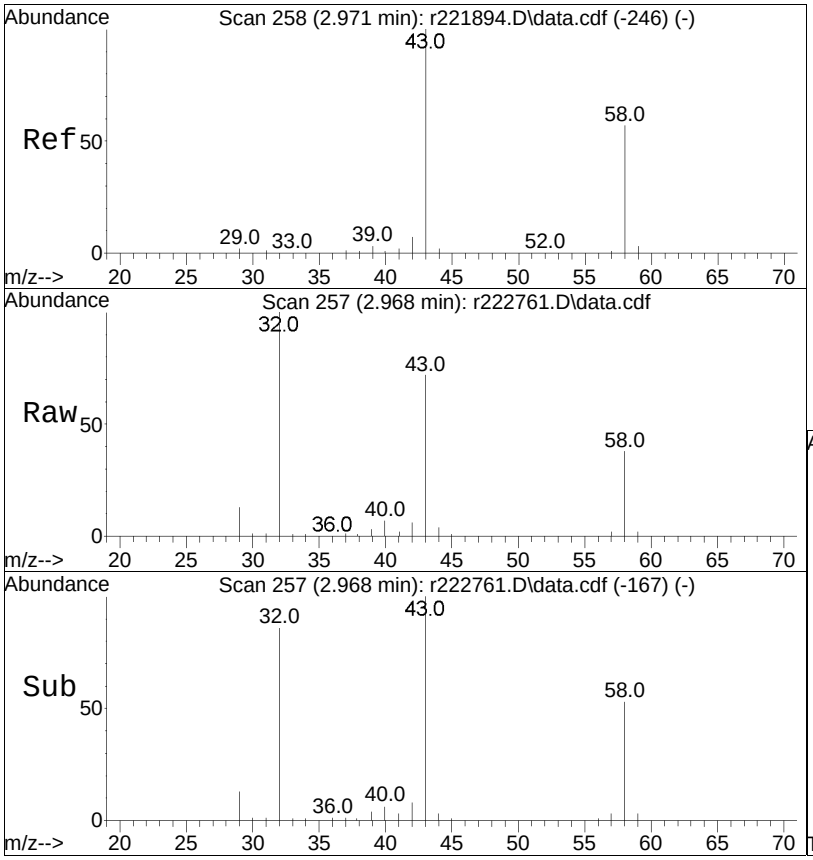


#15
ethanol
Concen: 7.58 ppbV
RT: 2.745 min Scan# 188
Delta R.T. -0.005 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 31 Resp: 23740

Ion	Ratio	Lower	Upper
31	100		
45	71.2	56.6	84.8

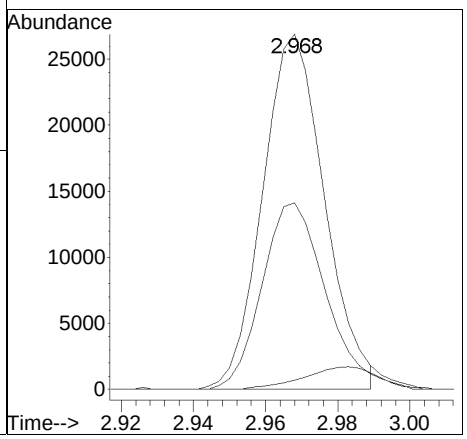


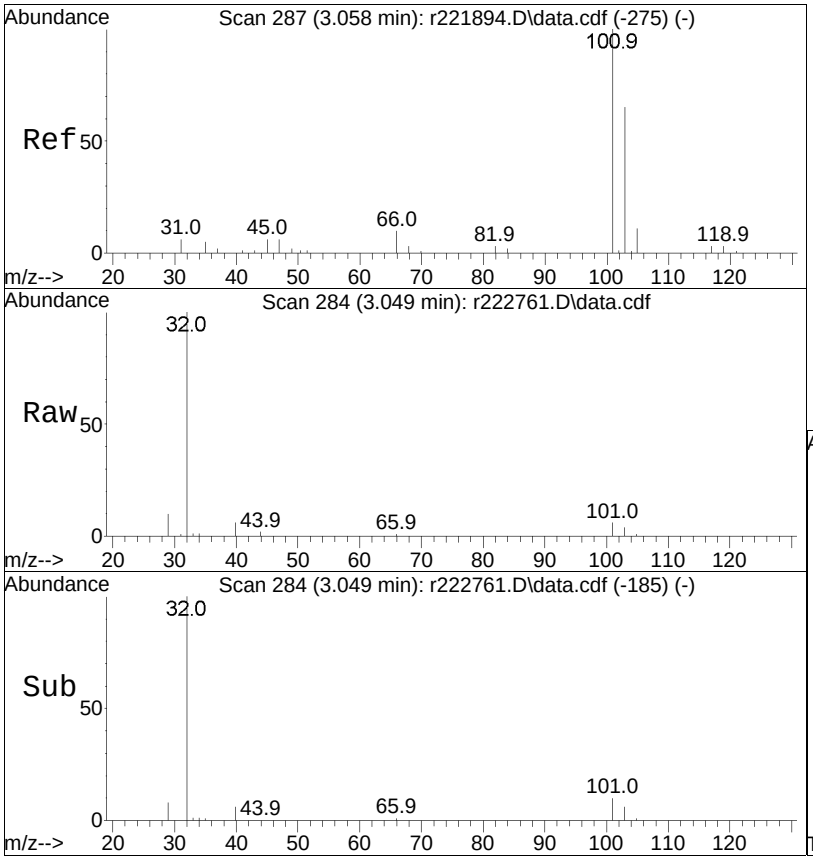


#19
acetone
Concen: 5.10 ppbV m
RT: 2.968 min Scan# 257
Delta R.T. -0.003 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 43 Resp: 32008

Ion	Ratio	Lower	Upper
43	100		
58	52.5	45.5	68.3
57	2.6	1.0	1.6#

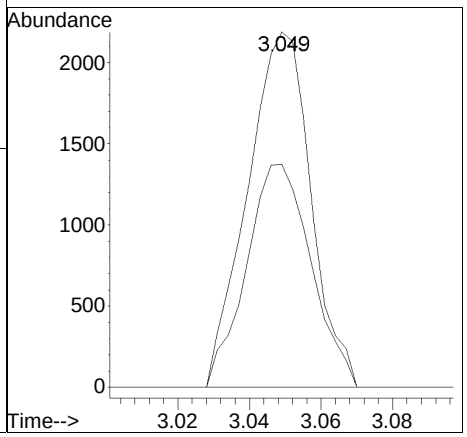


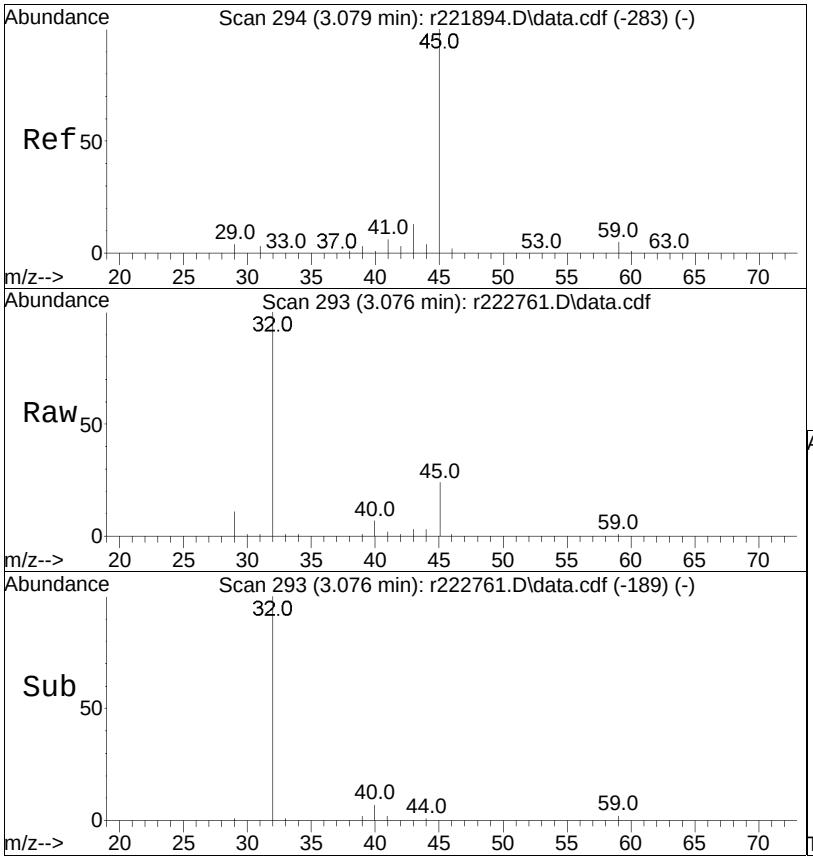


#21
trichlorofluoromethane
Concen: 0.32 ppbV
RT: 3.049 min Scan# 284
Delta R.T. -0.009 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion:101 Resp: 2692

Ion	Ratio	Lower	Upper
101	100		
103	62.8	52.2	78.4

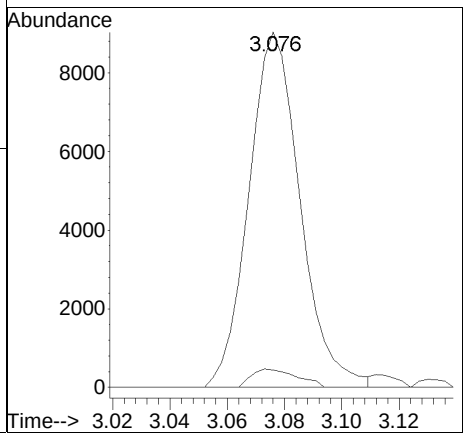


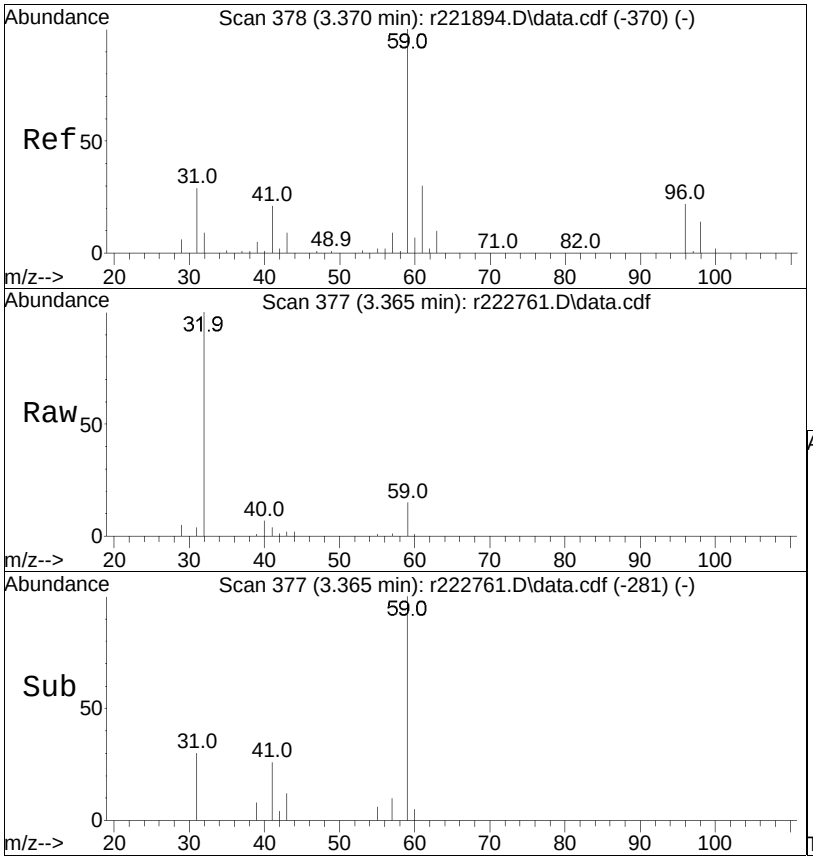


#22
isopropyl alcohol
Concen: 1.08 ppbV
RT: 3.076 min Scan# 293
Delta R.T. -0.003 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 45 Resp: 11247

Ion	Ratio	Lower	Upper
45	100		
59	4.9	4.0	6.0

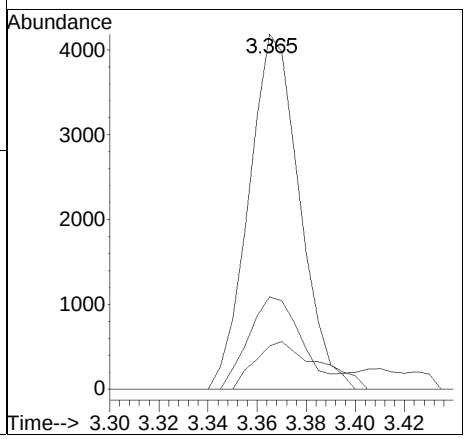


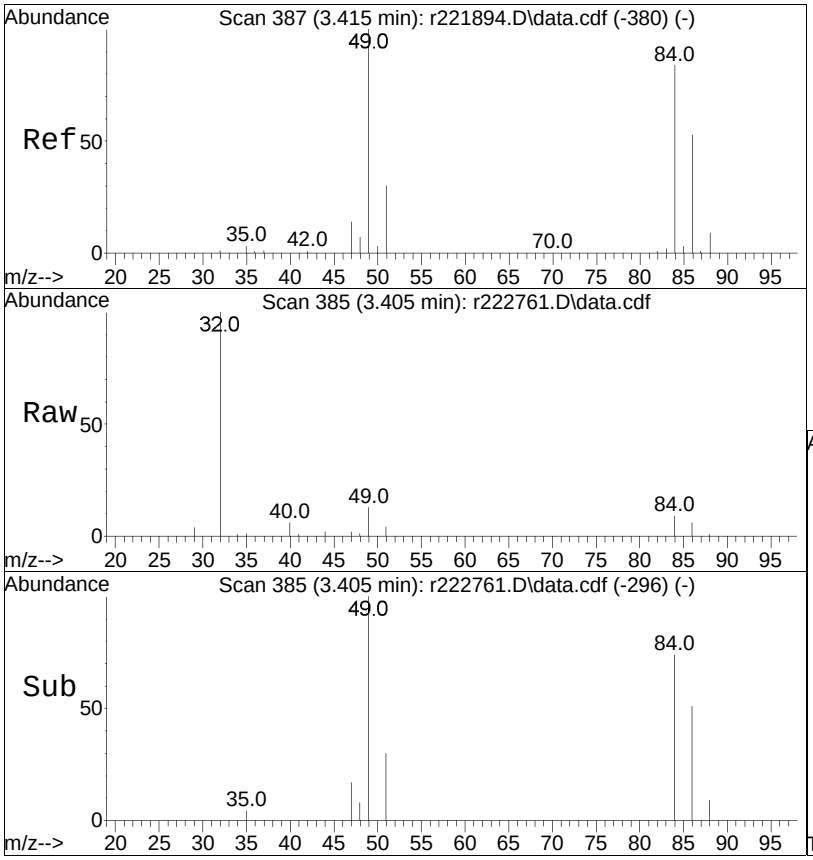


#27
tertiary butyl alcohol
Concen: 0.26 ppbV
RT: 3.365 min Scan# 377
Delta R.T. -0.005 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 59 Resp: 5997

Ion	Ratio	Lower	Upper
59	100		
41	26.0	16.9	25.3#
43	12.2	7.5	11.3#

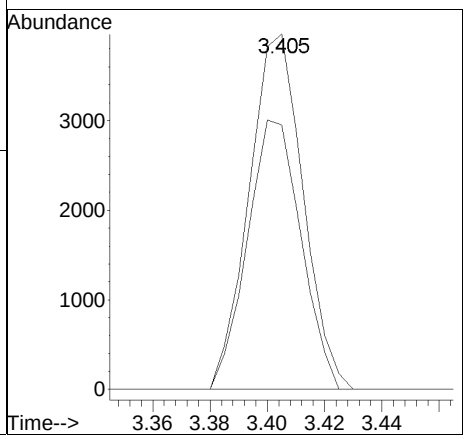


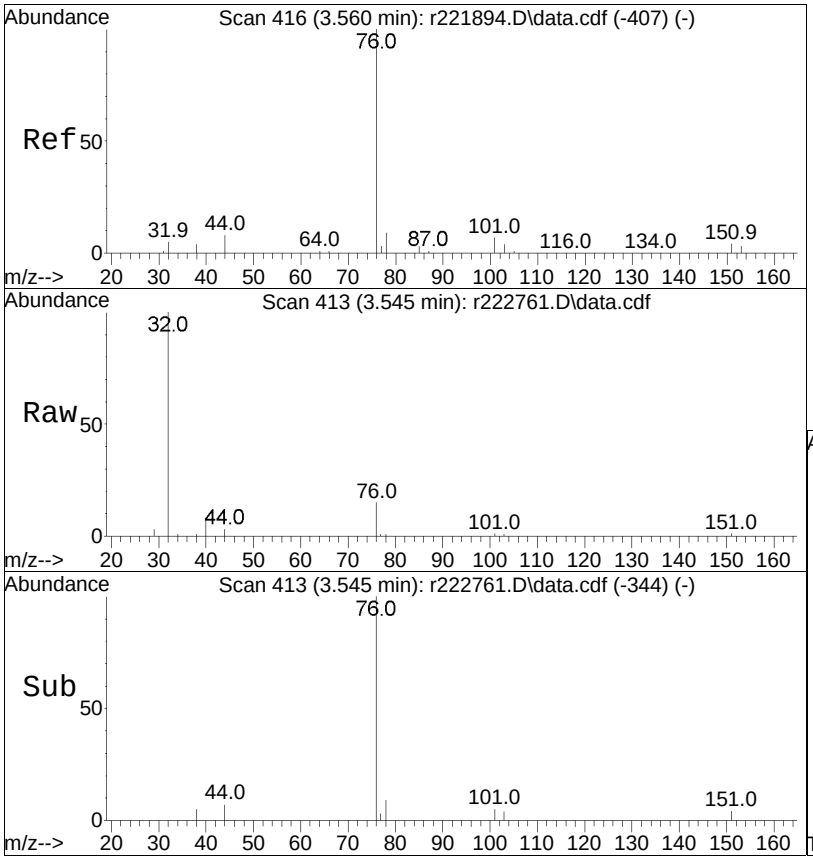


#28
methylene chloride
Concen: 0.34 ppbV
RT: 3.405 min Scan# 385
Delta R.T. -0.010 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 49 Resp: 5205

Ion	Ratio	Lower	Upper
49	100		
84	74.4	67.2	100.8

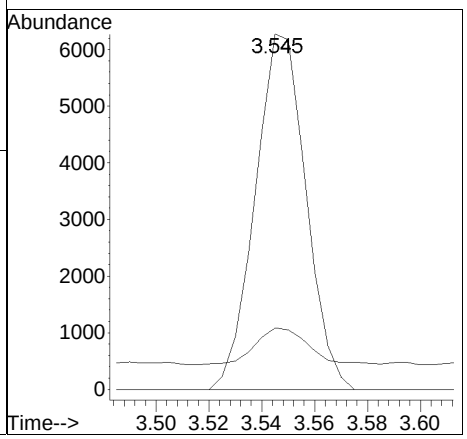


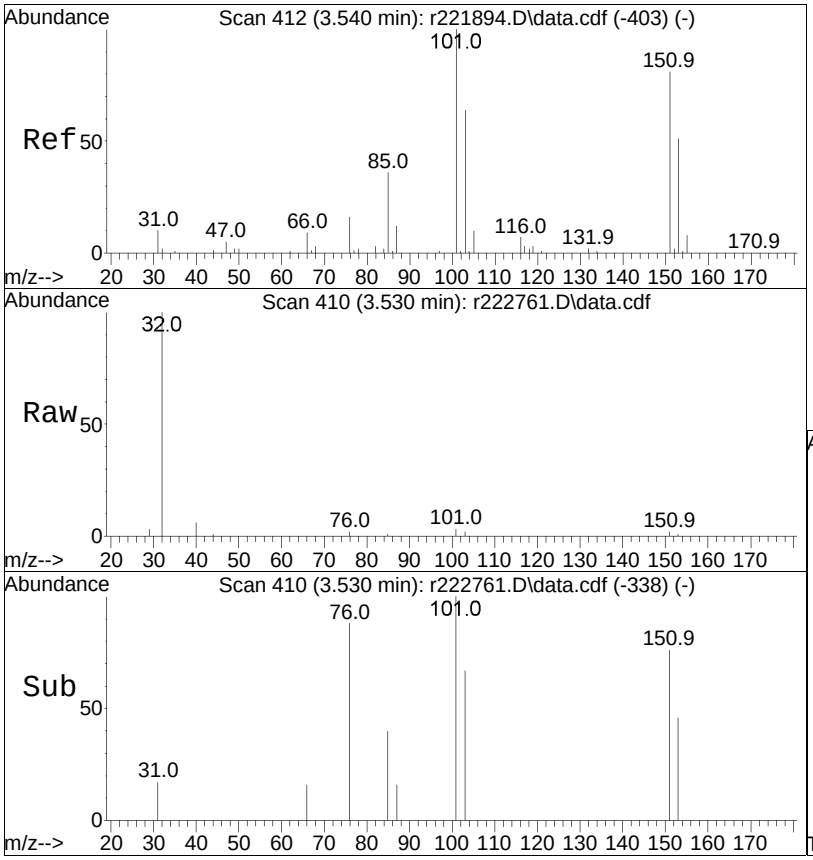


#30
carbon disulfide
Concen: 0.20 ppbV
RT: 3.545 min Scan# 413
Delta R.T. -0.015 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 76 Resp: 8365

Ion	Ratio	Lower	Upper
76	100		
44	17.3	6.8	10.2#

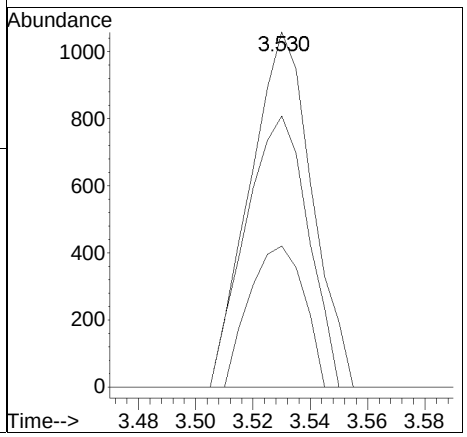


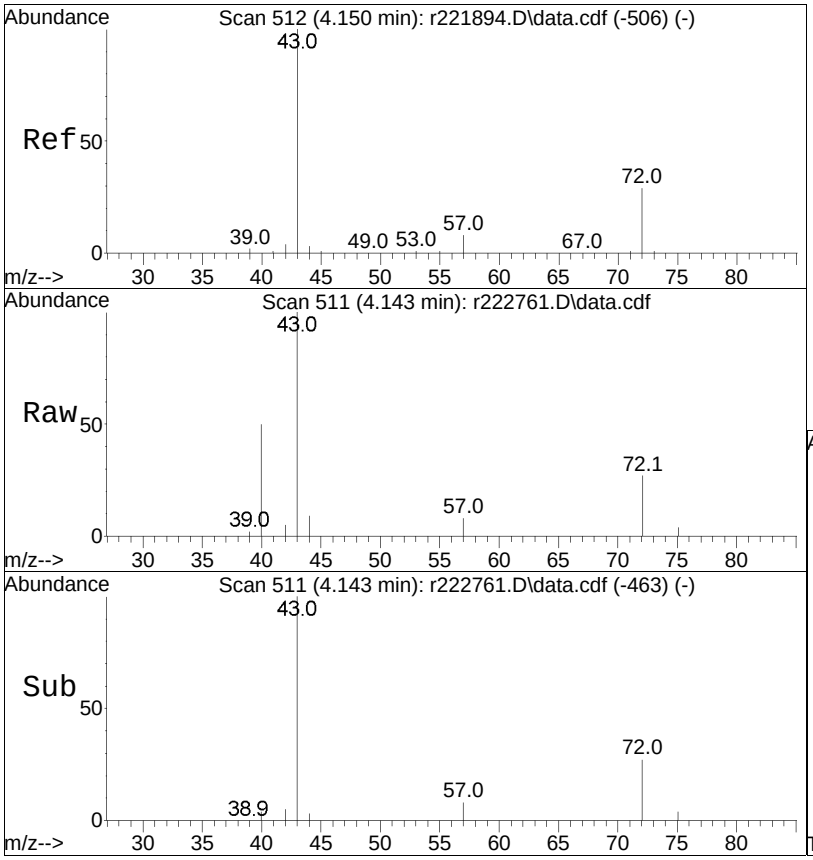


#31
Freon 113
Concen: 0.07 ppbV
RT: 3.530 min Scan# 410
Delta R.T. -0.010 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion:101 Resp: 1593

Ion	Ratio	Lower	Upper
101	100		
85	39.8	28.6	43.0
151	76.4	64.6	97.0

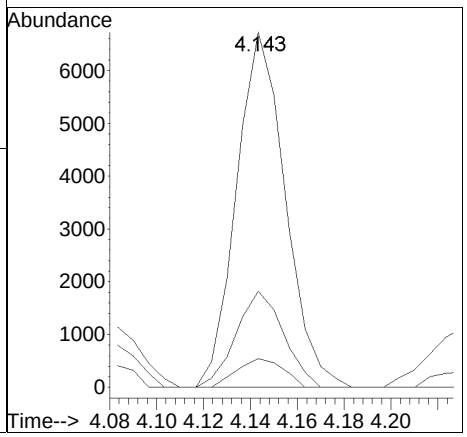


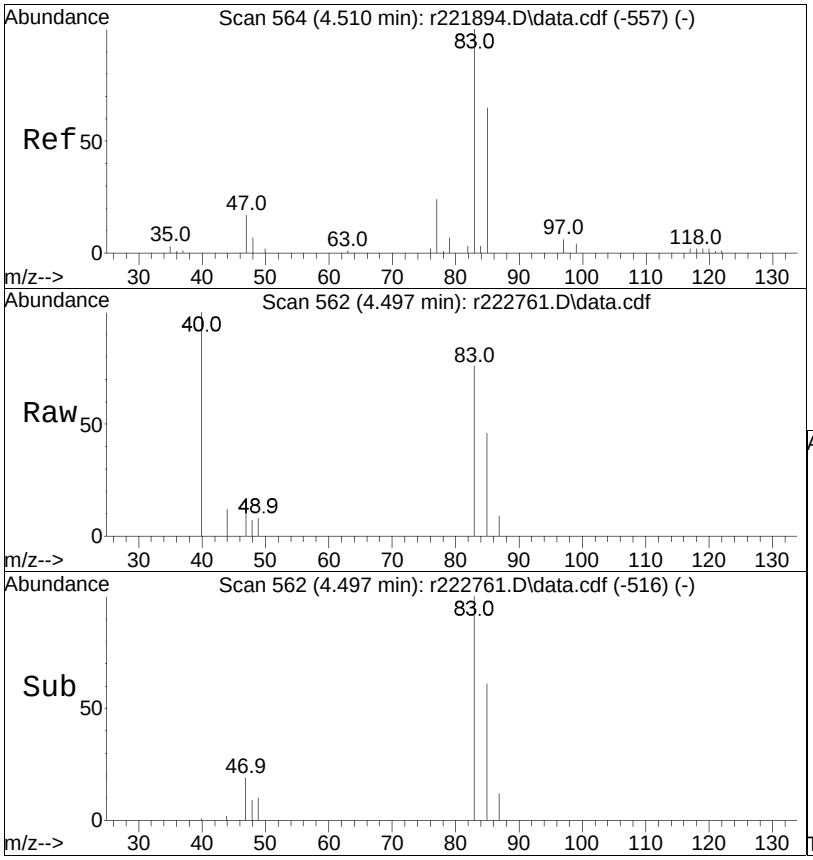


#36
2-butanone
Concen: 0.31 ppbV
RT: 4.143 min Scan# 511
Delta R.T. -0.007 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 43 Resp: 9752

Ion	Ratio	Lower	Upper
43	100		
72	27.0	23.0	34.6
57	8.1	6.3	9.5

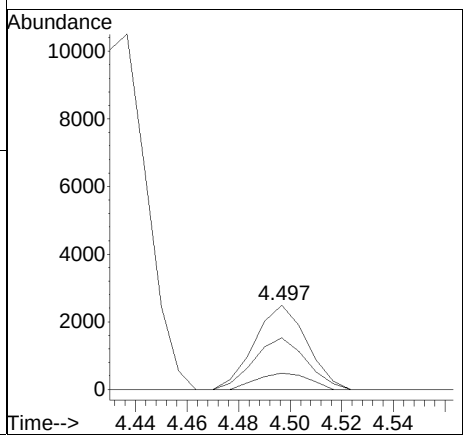


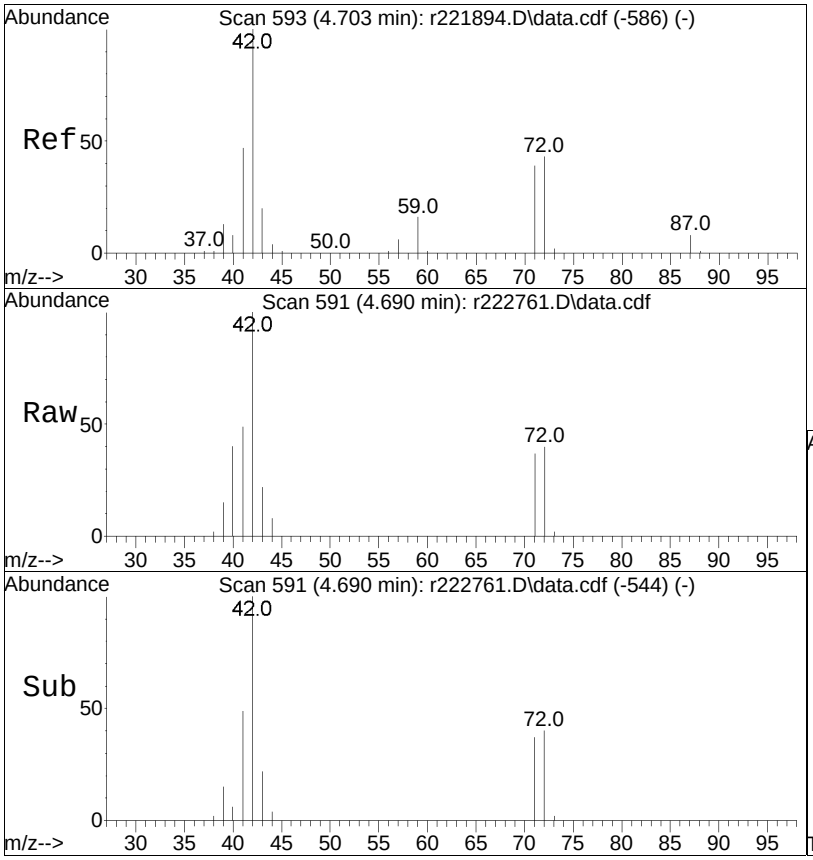


#39
chloroform
Concen: 0.16 ppbV
RT: 4.497 min Scan# 562
Delta R.T. -0.013 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 83 Resp: 3511

Ion	Ratio	Lower	Upper
83	100		
85	61.2	52.6	79.0
47	19.4	15.1	22.7

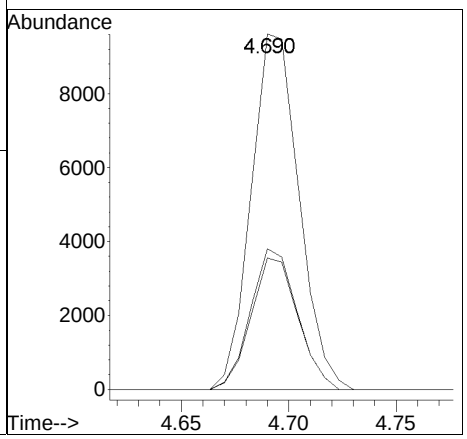


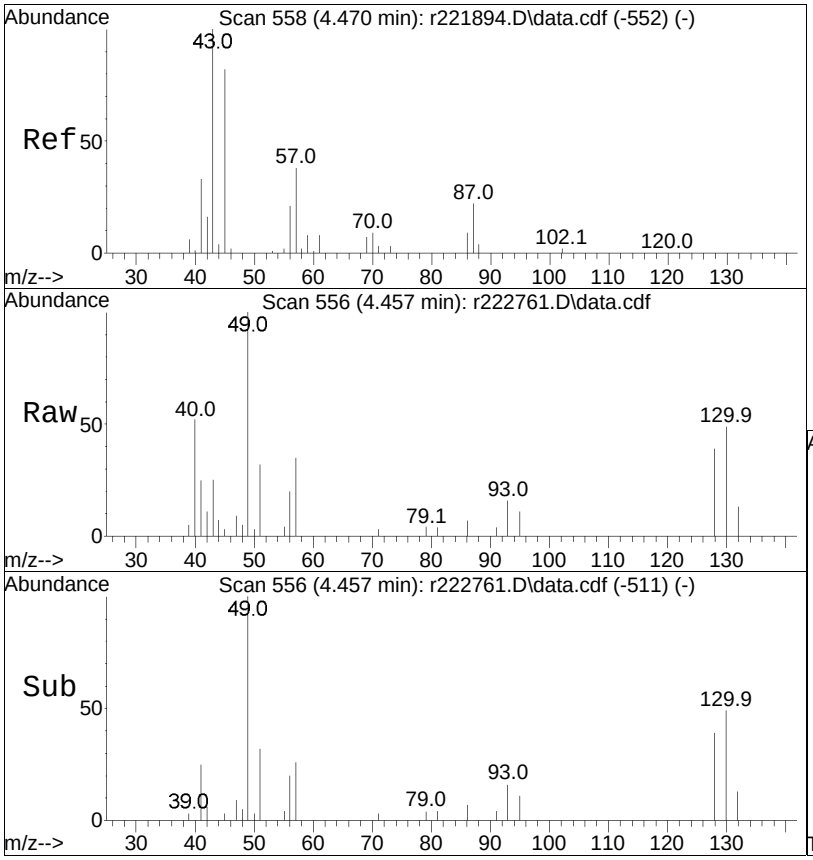


#40
Tetrahydrofuran
Concen: 0.74 ppbV
RT: 4.690 min Scan# 591
Delta R.T. -0.013 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 42 Resp: 14875

Ion	Ratio	Lower	Upper
42	100		
71	37.0	31.4	47.2
72	39.6	34.3	51.5

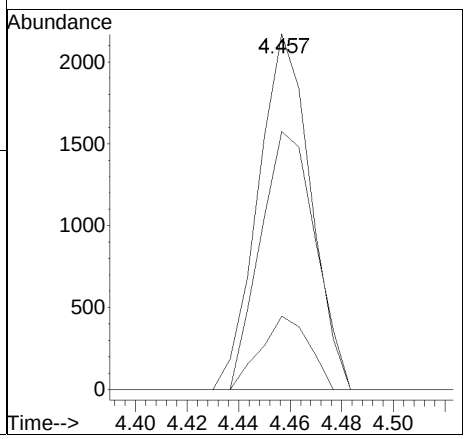


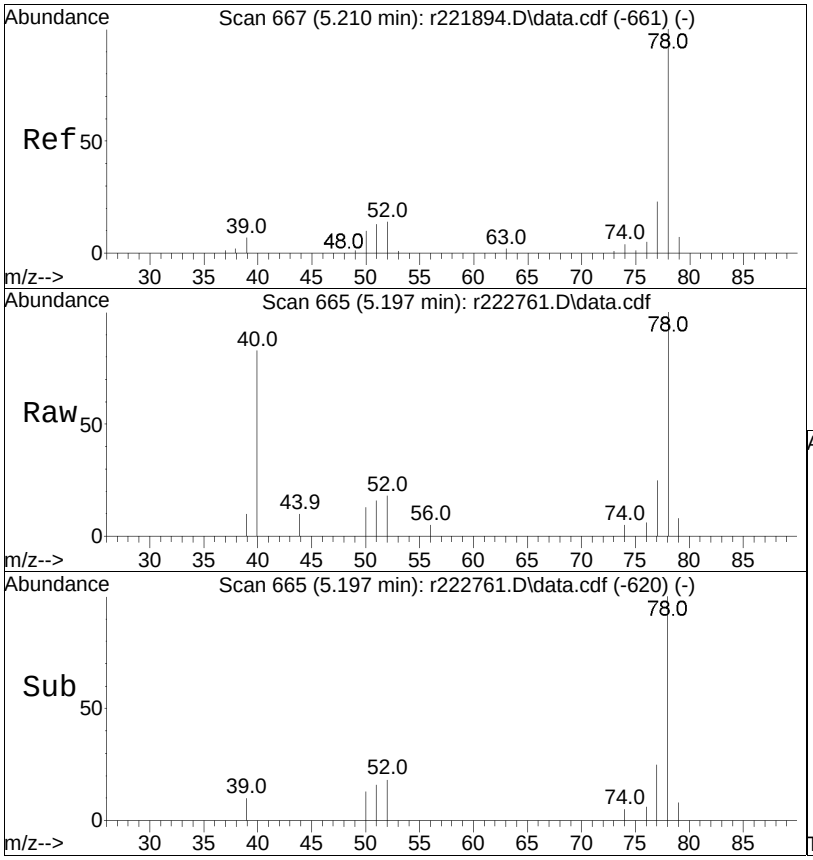


#44
hexane
Concen: 0.14 ppbV
RT: 4.457 min Scan# 556
Delta R.T. -0.013 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 57 Resp: 3067

Ion	Ratio	Lower	Upper
57	100		
43	72.6	210.8	316.2#
86	20.6	17.9	26.9

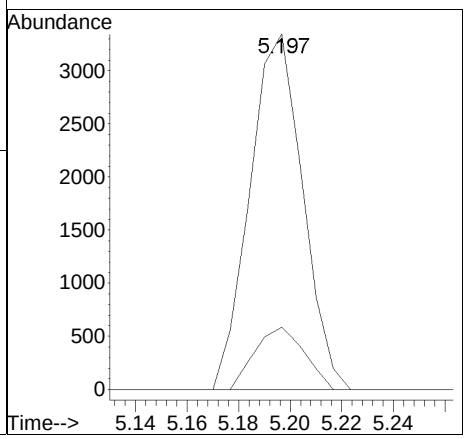


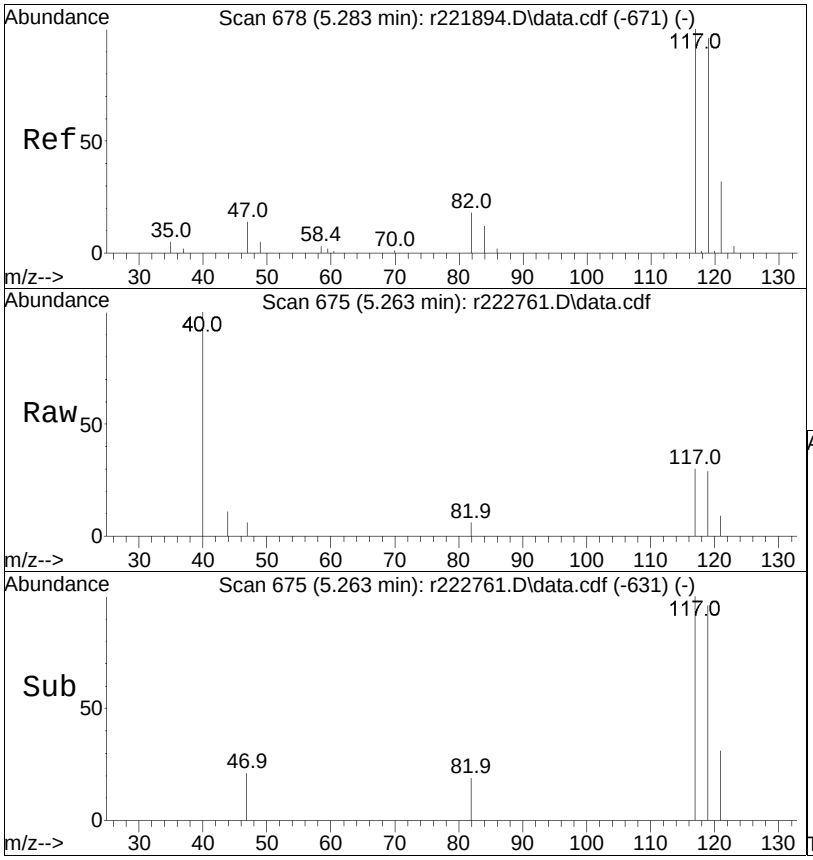


#50
benzene
Concen: 0.10 ppbV
RT: 5.197 min Scan# 665
Delta R.T. -0.013 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 78 Resp: 4764

Ion	Ratio	Lower	Upper
78	100		
52	17.5	11.3	16.9#

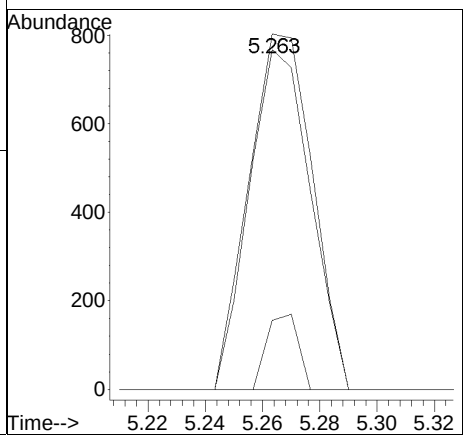


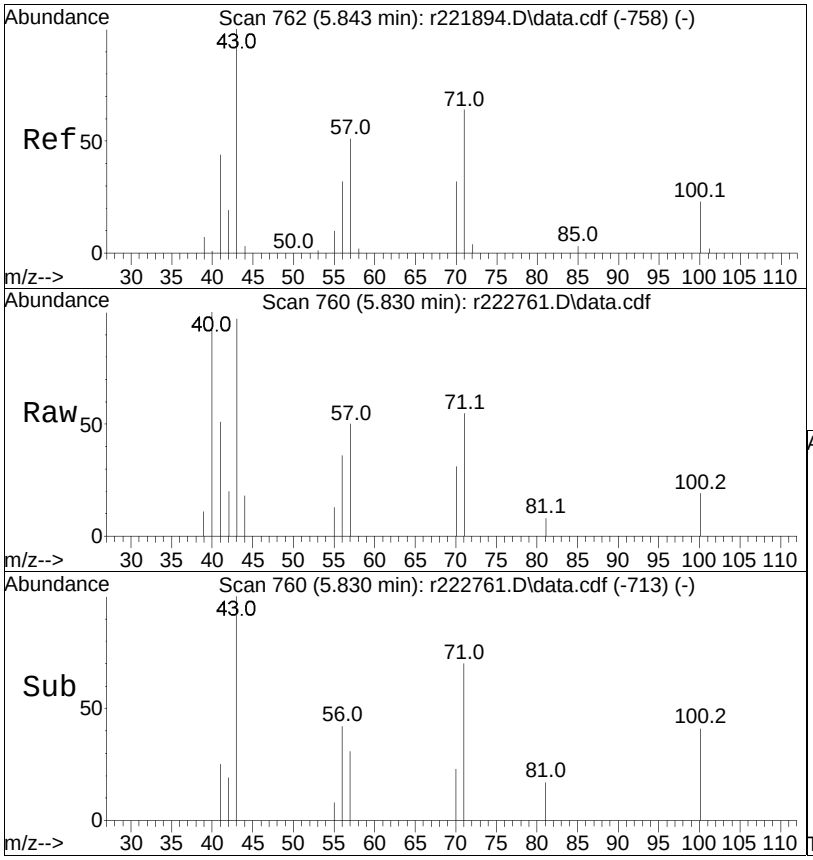


#52
carbon tetrachloride
Concen: 0.08 ppbV
RT: 5.263 min Scan# 675
Delta R.T. -0.020 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion:117 Resp: 1244

Ion	Ratio	Lower	Upper
117	100		
119	95.6	76.5	114.7
82	19.4	14.7	22.1

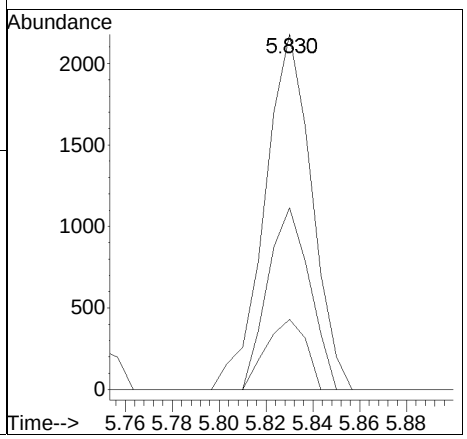


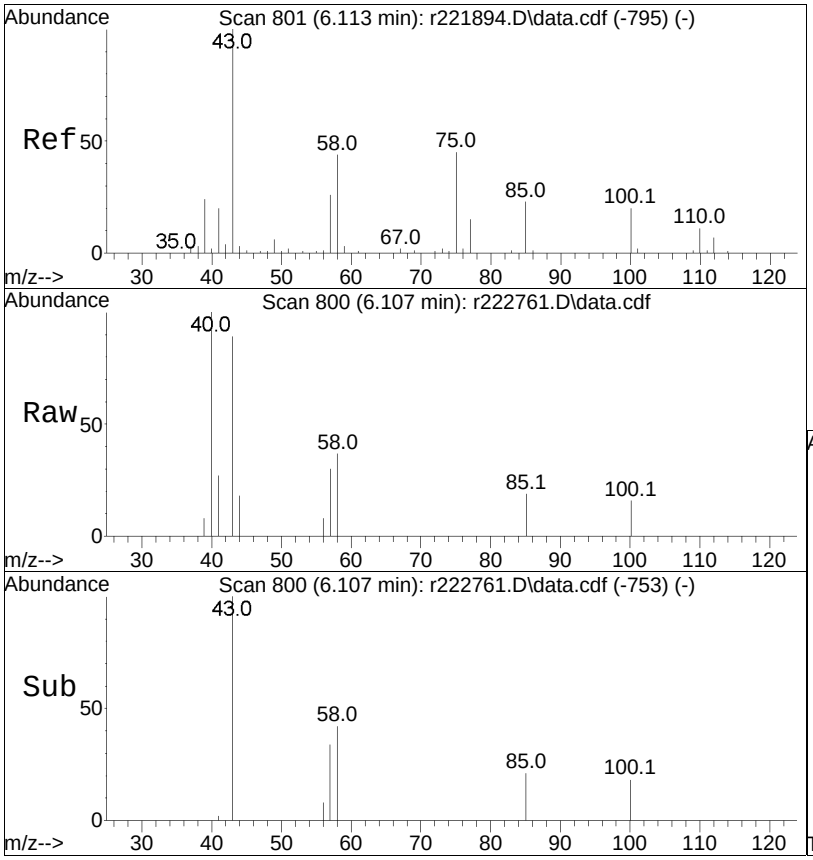


#62
heptane
Concen: 0.11 ppbV
RT: 5.830 min Scan# 760
Delta R.T. -0.013 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 43 Resp: 3046

Ion	Ratio	Lower	Upper
43	100		
57	51.1	40.4	60.6
100	19.7	19.0	28.6

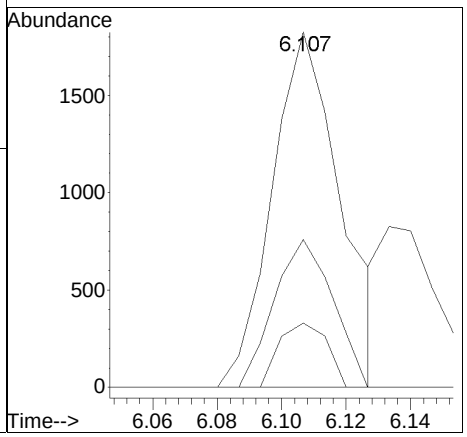


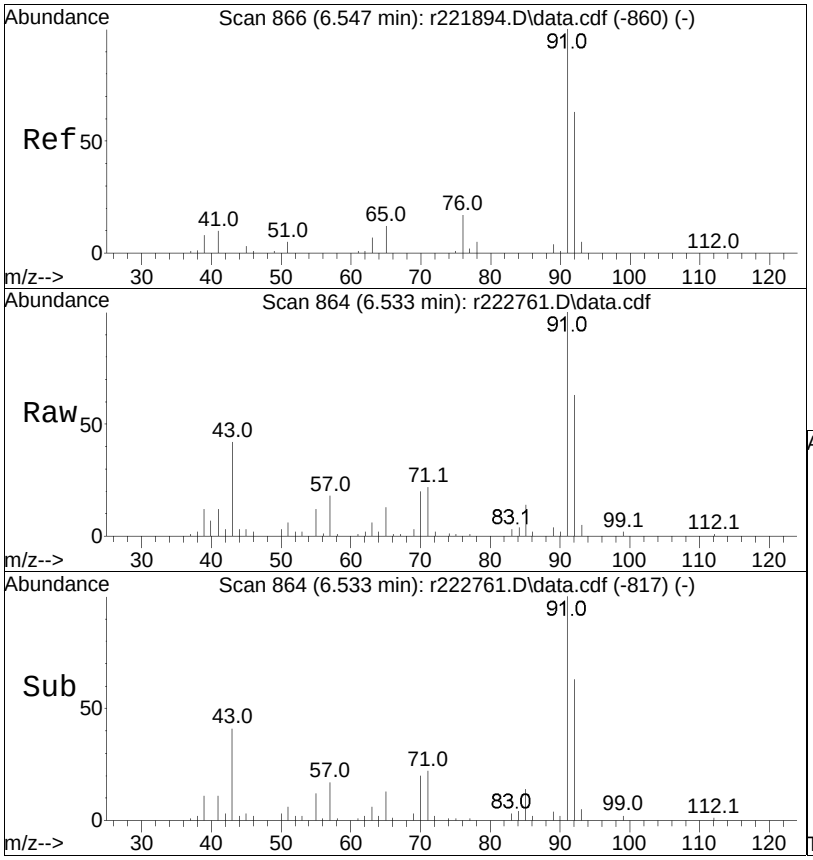


#64
4-methyl-2-pentanone
Concen: 0.09 ppbV
RT: 6.107 min Scan# 800
Delta R.T. -0.007 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 43 Resp: 2706

Ion	Ratio	Lower	Upper
43	100		
58	41.6	34.9	52.3
100	18.1	16.1	24.1

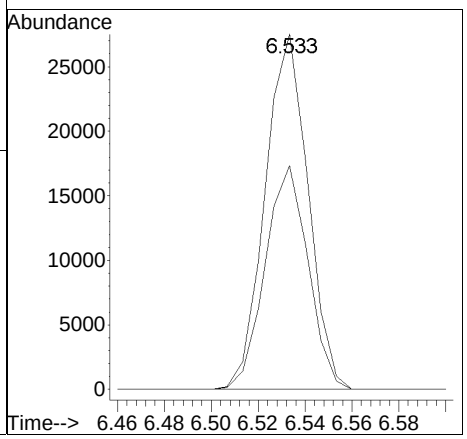


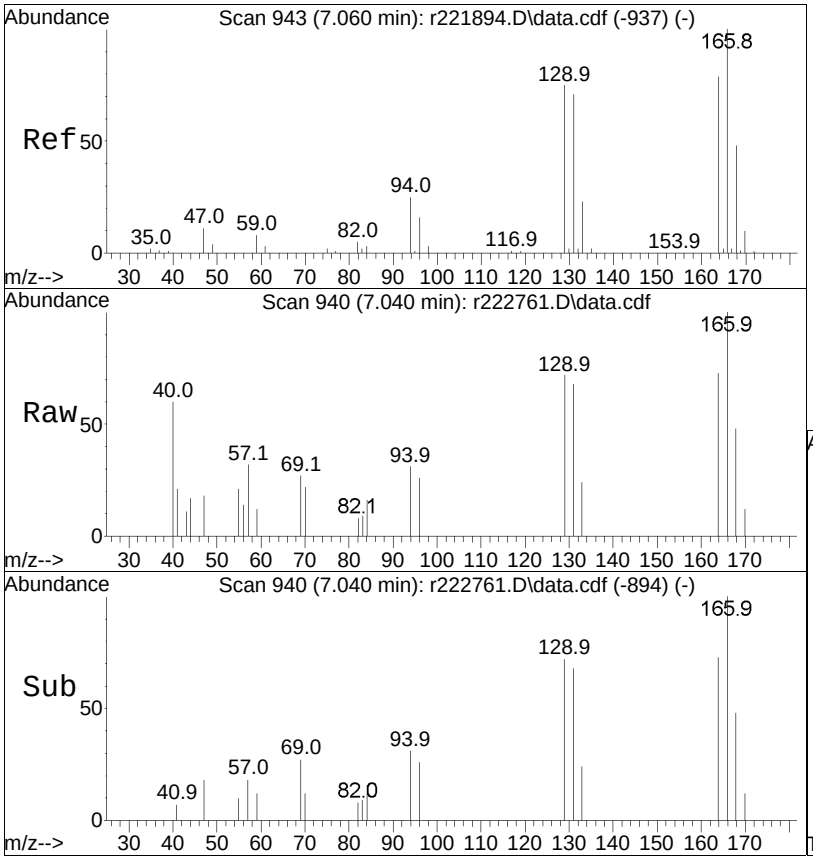


#68
toluene
Concen: 0.51 ppbV
RT: 6.533 min Scan# 864
Delta R.T. -0.013 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 91 Resp: 35005

Ion	Ratio	Lower	Upper
91	100		
92	63.0	50.7	76.1

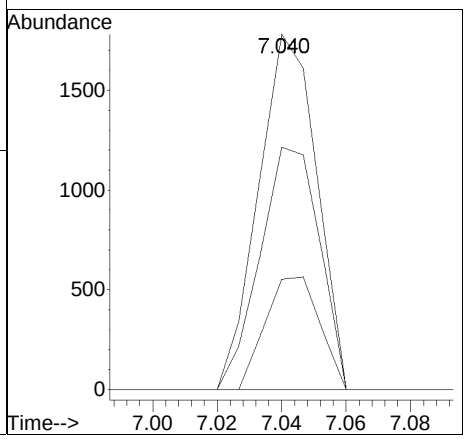


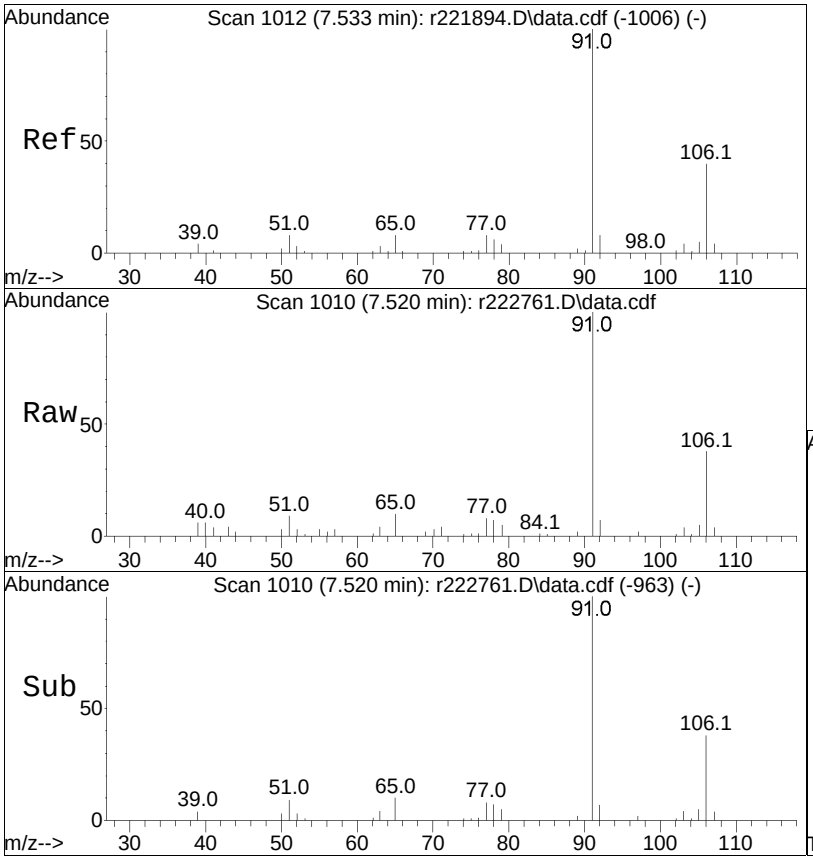


#78
tetrachloroethene
Concen: 0.08 ppbV
RT: 7.040 min Scan# 940
Delta R.T. -0.020 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion:166 Resp: 2232

Ion	Ratio	Lower	Upper
166	100		
131	68.2	56.9	85.3
94	31.0	19.8	29.8#

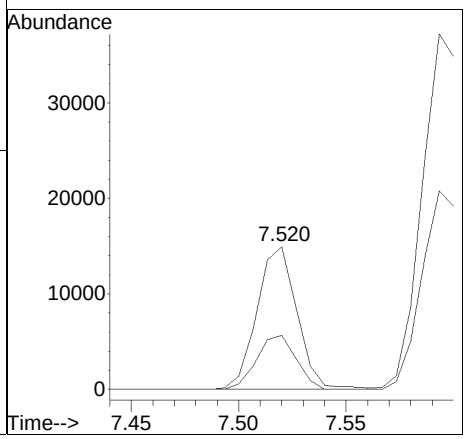


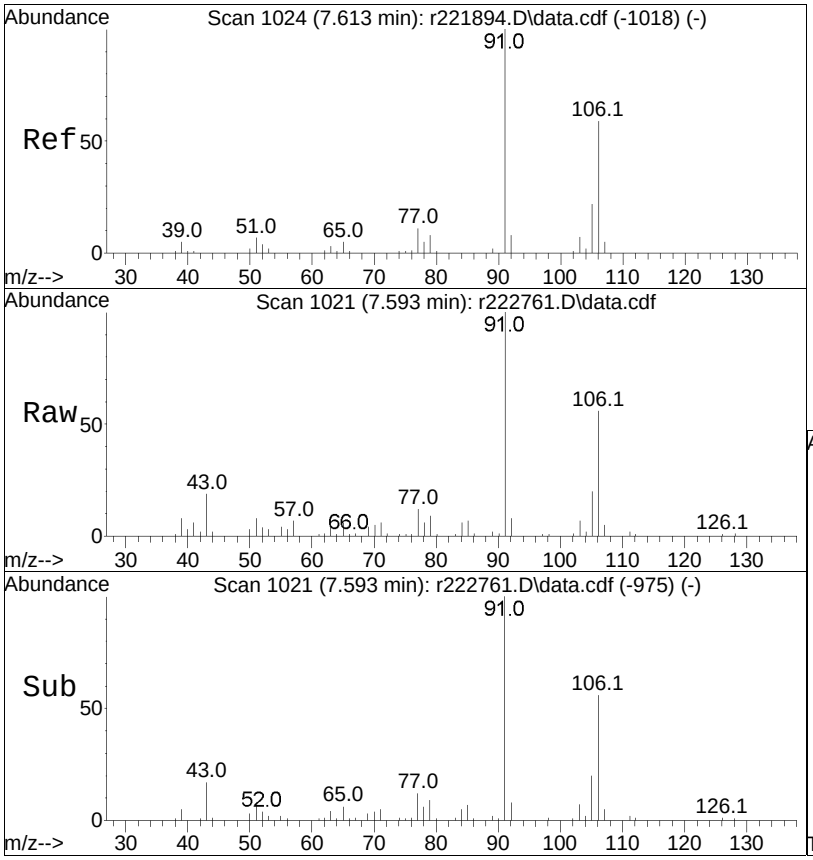


#81
ethylbenzene
Concen: 0.23 ppbV
RT: 7.520 min Scan# 1010
Delta R.T. -0.013 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 91 Resp: 19385

Ion	Ratio	Lower	Upper
91	100		
106	37.9	31.7	47.5

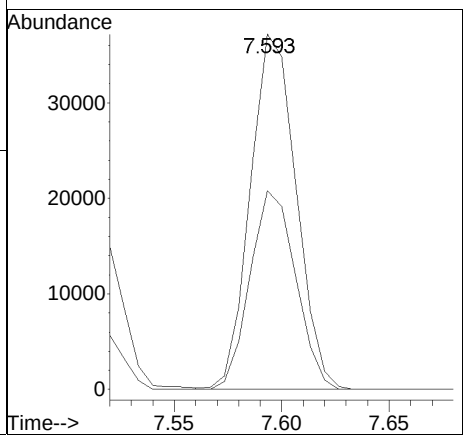


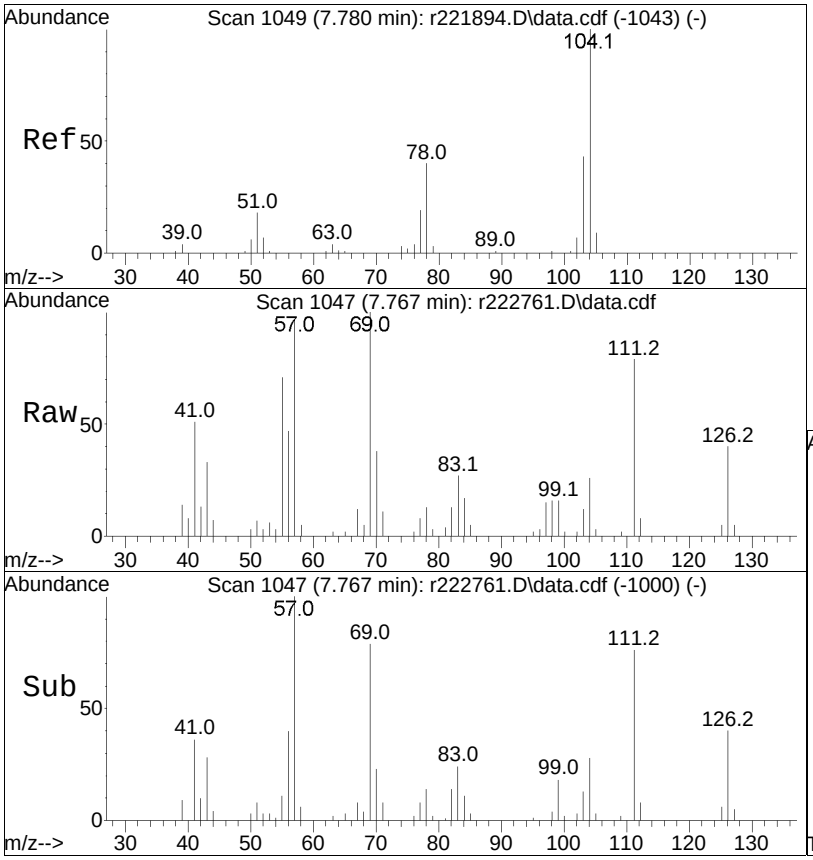


#83
m+p-xylene
Concen: 0.85 ppbV
RT: 7.593 min Scan# 1021
Delta R.T. -0.020 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 91 Resp: 55207

Ion	Ratio	Lower	Upper
91	100		
106	55.9	47.4	71.2

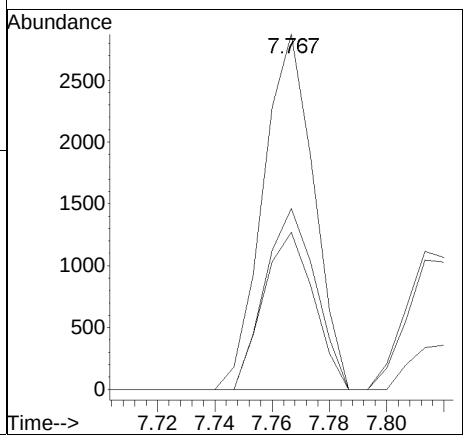


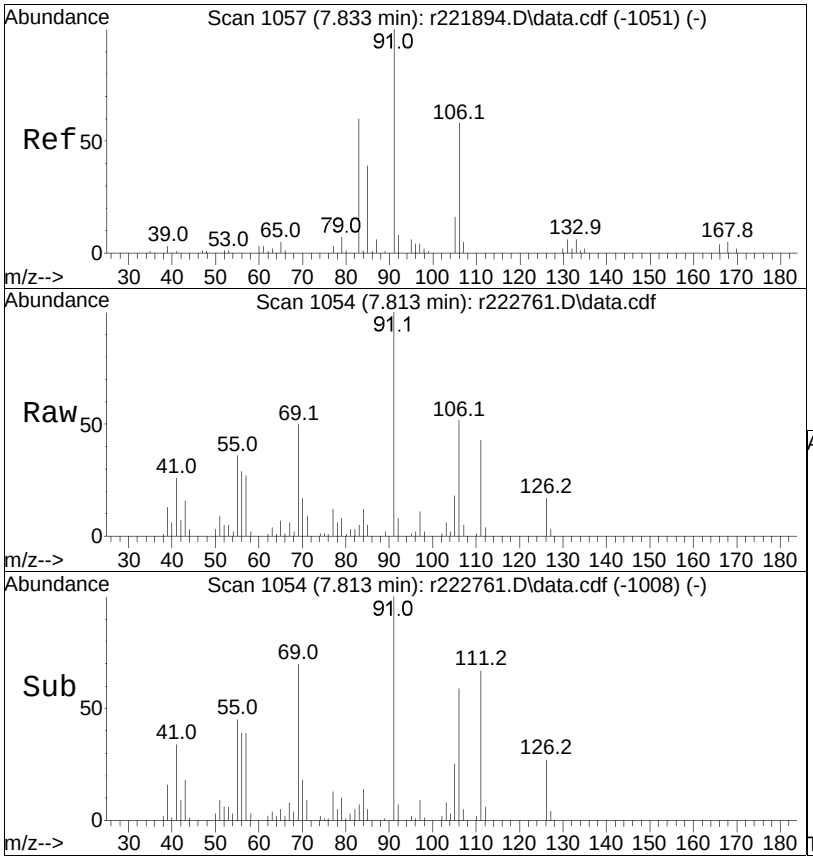


#85
styrene
Concen: 0.06 ppbV
RT: 7.767 min Scan# 1047
Delta R.T. -0.013 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion:104 Resp: 3517

Ion	Ratio	Lower	Upper
104	100		
103	44.2	34.3	51.5
78	50.9	32.3	48.5#

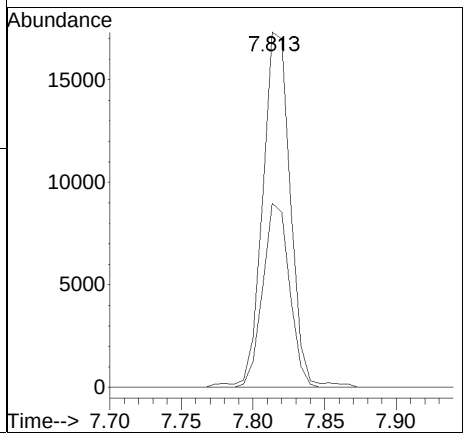


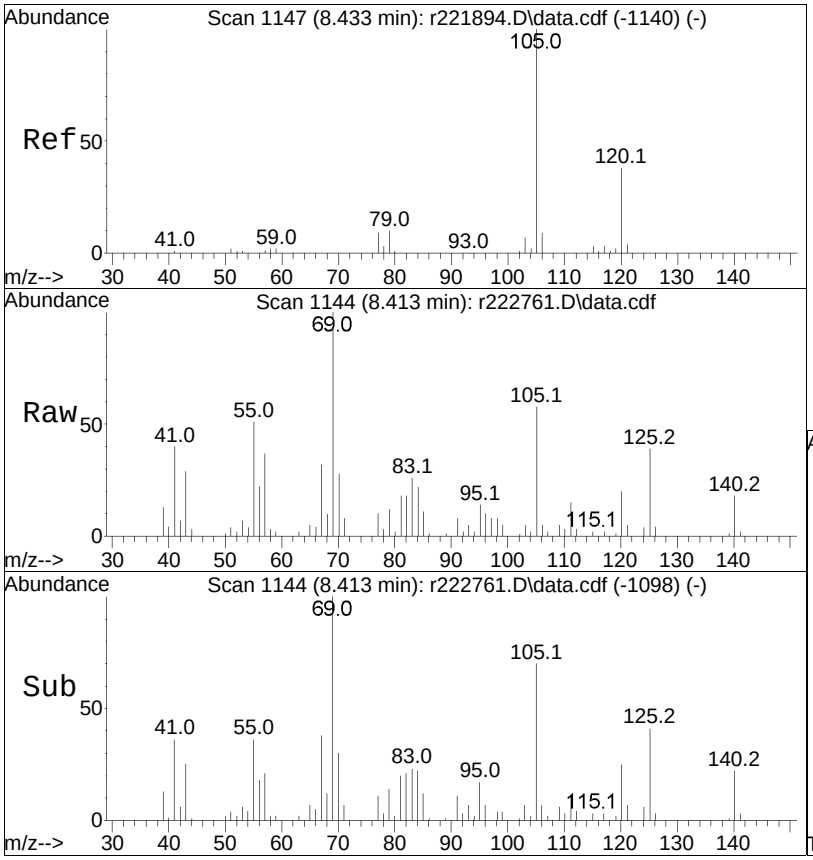


#87
o-xylene
Concen: 0.37 ppbV
RT: 7.813 min Scan# 1054
Delta R.T. -0.020 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 91 Resp: 23375

Ion	Ratio	Lower	Upper
91	100		
106	51.8	46.2	69.4

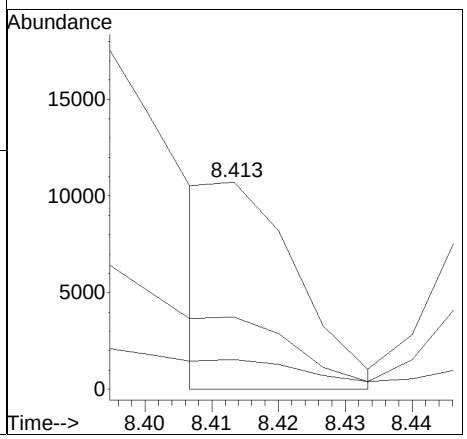


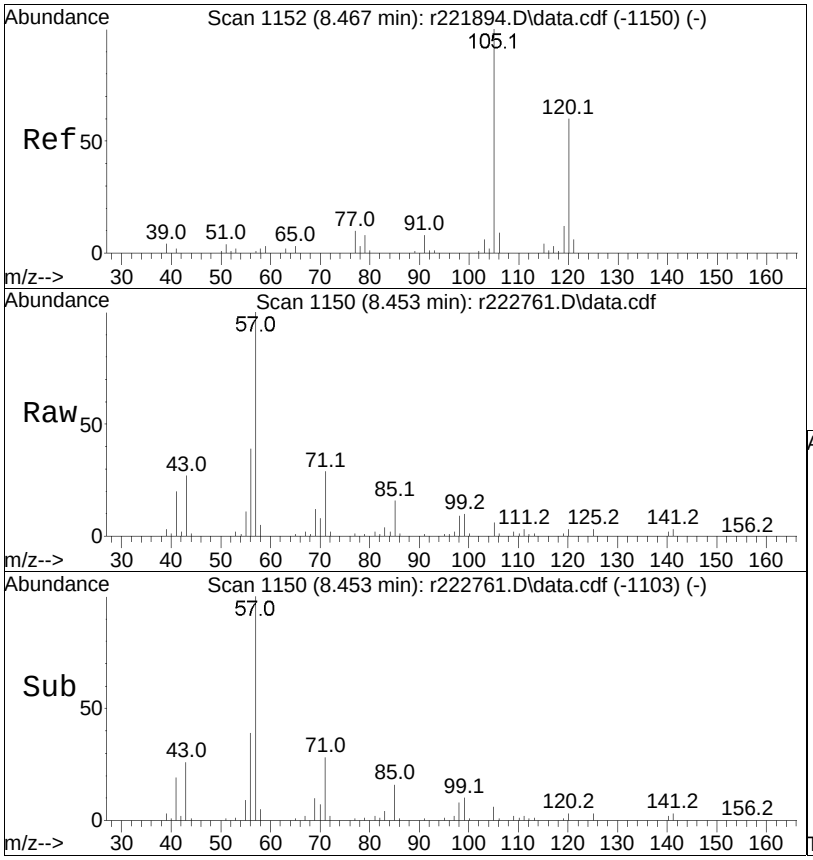


#96
4-ethyl toluene
Concen: 0.10 ppbV m
RT: 8.413 min Scan# 1144
Delta R.T. -0.020 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion:105 Resp: 9269

Ion	Ratio	Lower	Upper
105	100		
120	34.9	30.7	46.1
91	14.4	7.2	10.8#

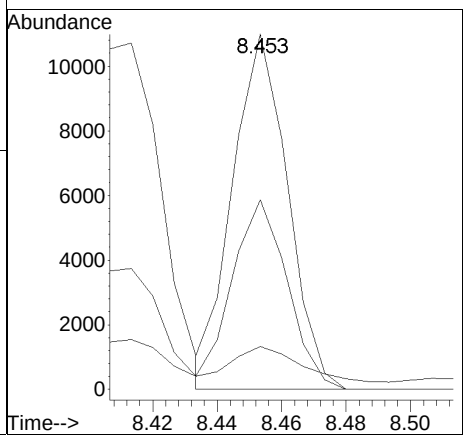


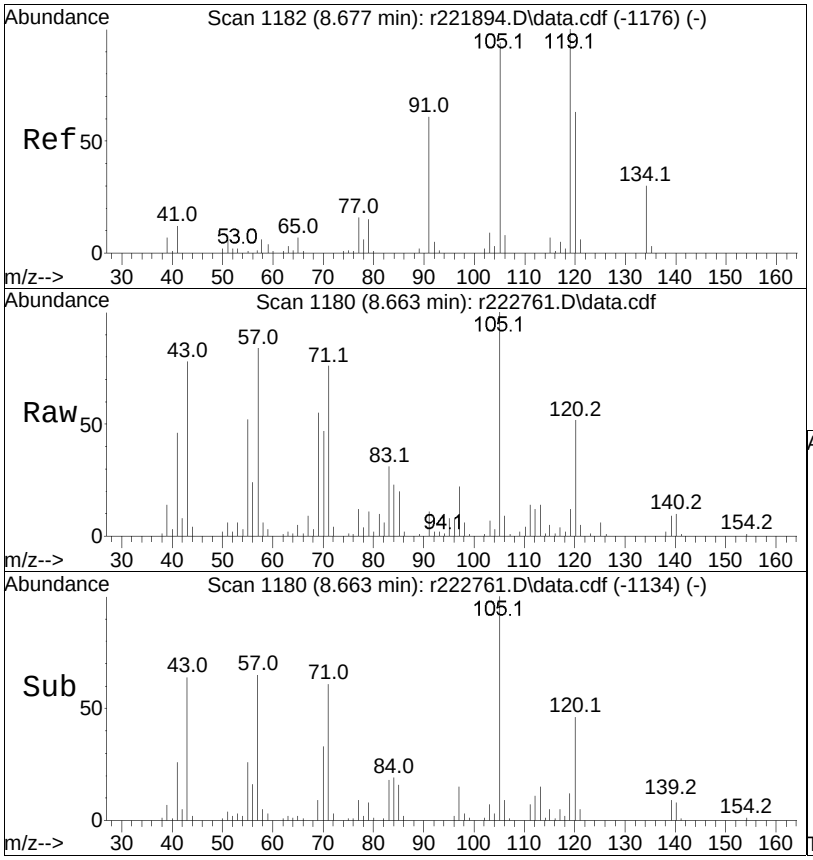


#97
1,3,5-trimethylbenzene
Concen: 0.17 ppbV
RT: 8.453 min Scan# 1150
Delta R.T. -0.013 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion:105 Resp: 13076

Ion	Ratio	Lower	Upper
105	100		
120	53.4	47.8	71.8
91	12.1	6.6	10.0#

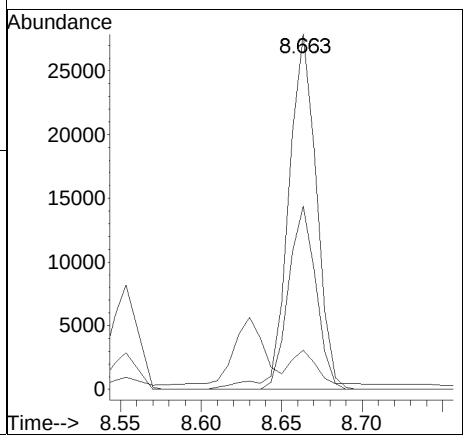




#99
1,2,4-trimethylbenzene
Concen: 0.46 ppbV
RT: 8.663 min Scan# 1180
Delta R.T. -0.013 min
Lab File: r222761.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion:105 Resp: 33737

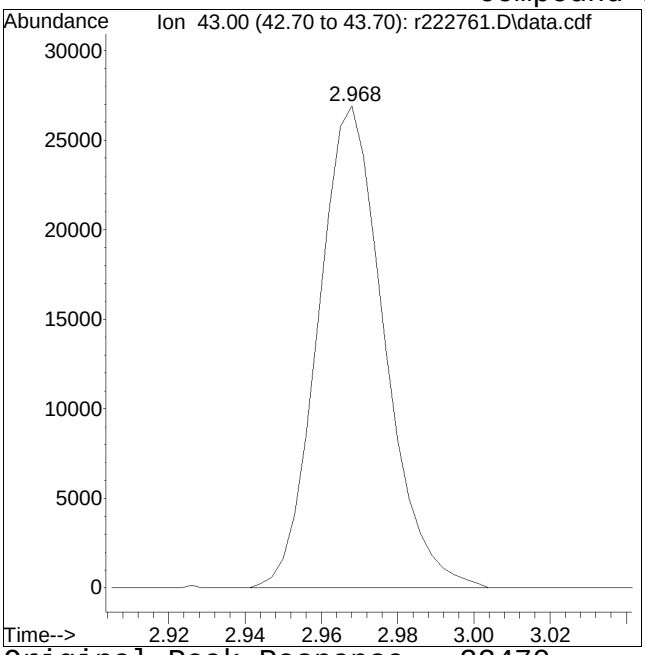
Ion	Ratio	Lower	Upper
105	100		
120	51.6	53.8	80.8#
91	11.1	52.2	78.2#



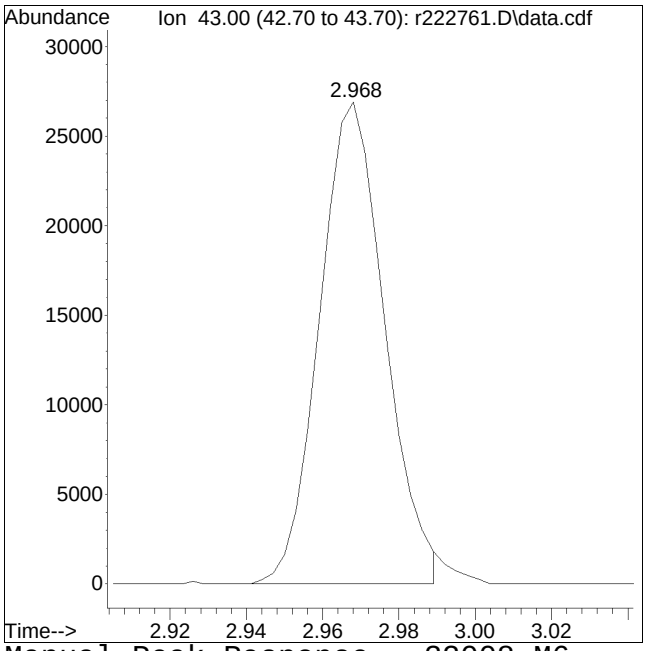
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222761.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:5: 7 Instrument :
Sample : L2409206-01,3,250,250 Quant Date : 3/2/2024 8:05 am

Compound #19: acetone



Original Peak Response = 32470



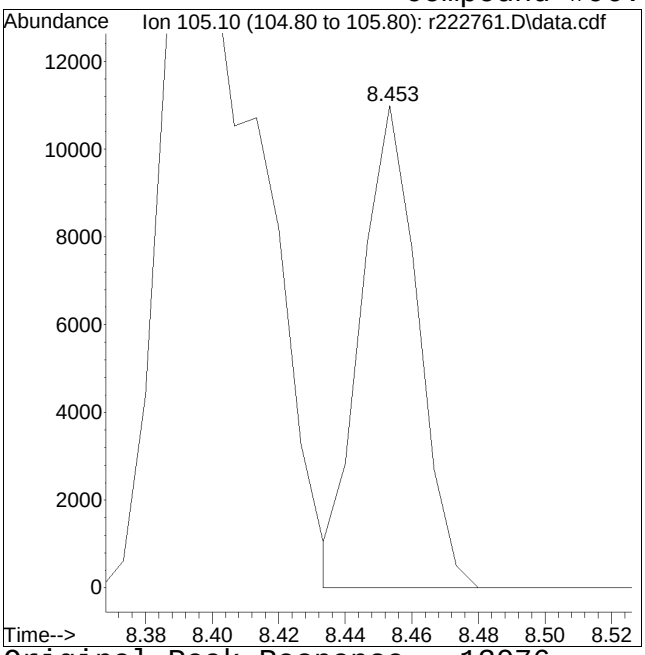
Manual Peak Response = 32008 M6

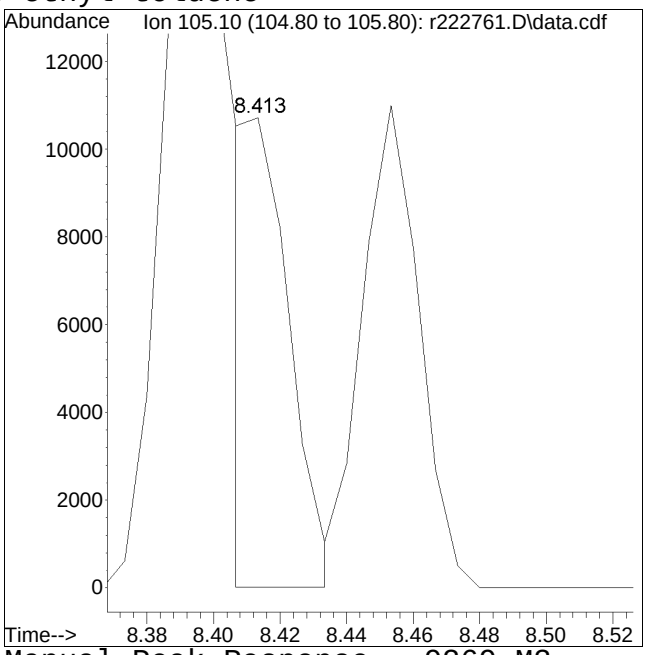
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222761.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:5: 7 Instrument :
Sample : L2409206-01,3,250,250 Quant Date : 3/2/2024 8:05 am

Compound #96: 4-ethyl toluene





Original Peak Response = 13076 Manual Peak Response = 9269 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222762.D
Acq On : 1 Mar 2024 6:19 PM
Operator : AIRLAB22:BJB
Sample : L2409206-03,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:07 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.430	49	214712	10.000	ppbV	-0.02
Standard Area = 199252			Recovery = 107.76%			
43) 1,4-difluorobenzene	5.357	114	670848	10.000	ppbV	-0.02
Standard Area = 623148			Recovery = 107.65%			
67) chlorobenzene-D5	7.333	54	85214	10.000	ppbV	#-0.01
Standard Area = 82823			Recovery = 102.89%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.195	85	6997	0.405	ppbV	96
6) chloromethane	2.300	50	27545	2.936	ppbV	100
7) Freon-114	2.355		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	2.590		0	N.D.		
14) chloroethane	2.700		0	N.D.		
15) ethanol	2.745	31	46524	13.490	ppbV	100
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.968	43	47063M6	6.813	ppbV	
21) trichlorofluoromethane	3.046	101	1704	0.185	ppbV	94
22) isopropyl alcohol	3.073	45	40748	3.558	ppbV	99
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	3.365	59	29272	1.135	ppbV	95
28) methylene chloride	3.400	49	4022	0.236	ppbV	95
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	3.545	76	24178	0.512	ppbV #	91
31) Freon 113	3.530	101	1583	0.061	ppbV	90
32) trans-1,2-dichloroethene	3.850	61	1966	0.090	ppbV	94
33) 1,1-dichloroethane	3.950		0	N.D.		
34) MTBE	3.943		0	N.D.		
36) 2-butanone	4.143	43	17297	0.496	ppbV	96
37) cis-1,2-dichloroethene	4.463		0	N.D.		
38) Ethyl Acetate	4.463		0	N.D.		
39) chloroform	4.497		0	N.D.		
40) Tetrahydrofuran	4.690	42	33999	1.532	ppbV	96
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	4.457	57	3282	0.138	ppbV #	11

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222762.D
Acq On : 1 Mar 2024 6:19 PM
Operator : AIRLAB22:BJB
Sample : L2409206-03,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:07 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	5.197	78	7424	0.148	ppbV	97
52) carbon tetrachloride	5.263	117	1084	0.065	ppbV	98
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	5.670		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	5.690		0	N.D.		
60) 2,2,4-trimethylpentane	5.710	57	8739	0.115	ppbV #	63
62) heptane	5.830	43	5286	0.177	ppbV	95
63) cis-1,3-dichloropropene	6.080		0	N.D.		
64) 4-methyl-2-pentanone	6.107	43	59215M4	1.780	ppbV	
65) trans-1,3-dichloropropene	6.307		0	N.D.		
66) 1,1,2-trichloroethane	6.493		0	N.D.		
68) toluene	6.533	91	48313	0.680	ppbV	100
72) 2-hexanone	6.647	43	3544	0.085	ppbV #	87
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	7.040		0	N.D.		
80) chlorobenzene	0.000		0	N.D.	d	
81) ethylbenzene	7.520	91	23872	0.278	ppbV	95
83) m+p-xylene	7.593	91	79664	1.190	ppbV	96
84) bromoform	0.000		0	N.D.		
85) styrene	7.767	104	3793	0.063	ppbV	96
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d	
87) o-xylene	7.813	91	29181	0.446	ppbV	98
96) 4-ethyl toluene	8.407	105	8769M3	0.091	ppbV	
97) 1,3,5-trimethylbenzene	8.453	105	9114	0.115	ppbV #	96
99) 1,2,4-trimethylbenzene	8.663	105	30154	0.399	ppbV #	56
101) Benzyl Chloride	8.803		0	N.D.		
102) 1,3-dichlorobenzene	8.777		0	N.D.		
103) 1,4-dichlorobenzene	8.777		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\Airlab22\2024\03\0301T\
Data File : r222762.D
Acq On : 1 Mar 2024 6:19 PM
Operator : AIRLAB22:BJB
Sample : L2409206-03,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:07 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

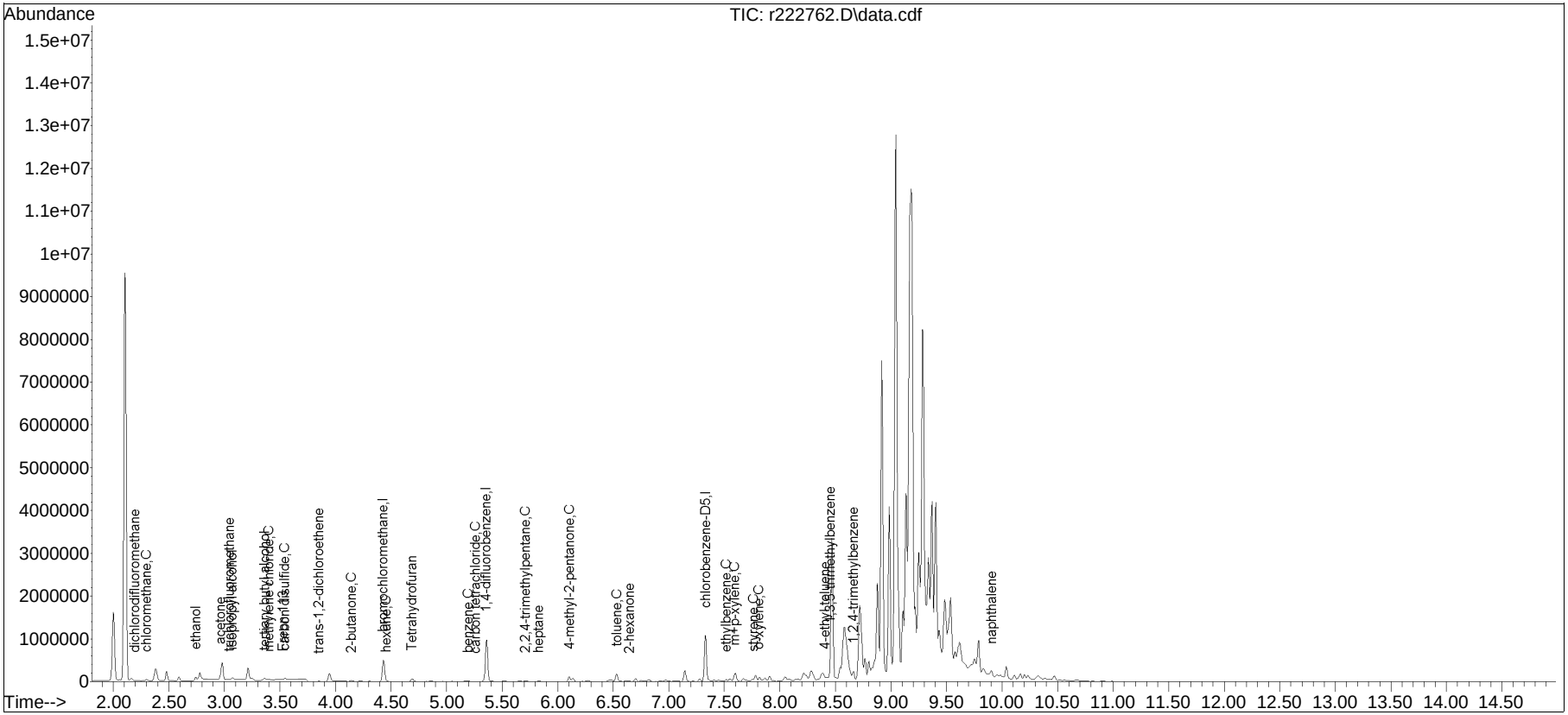
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

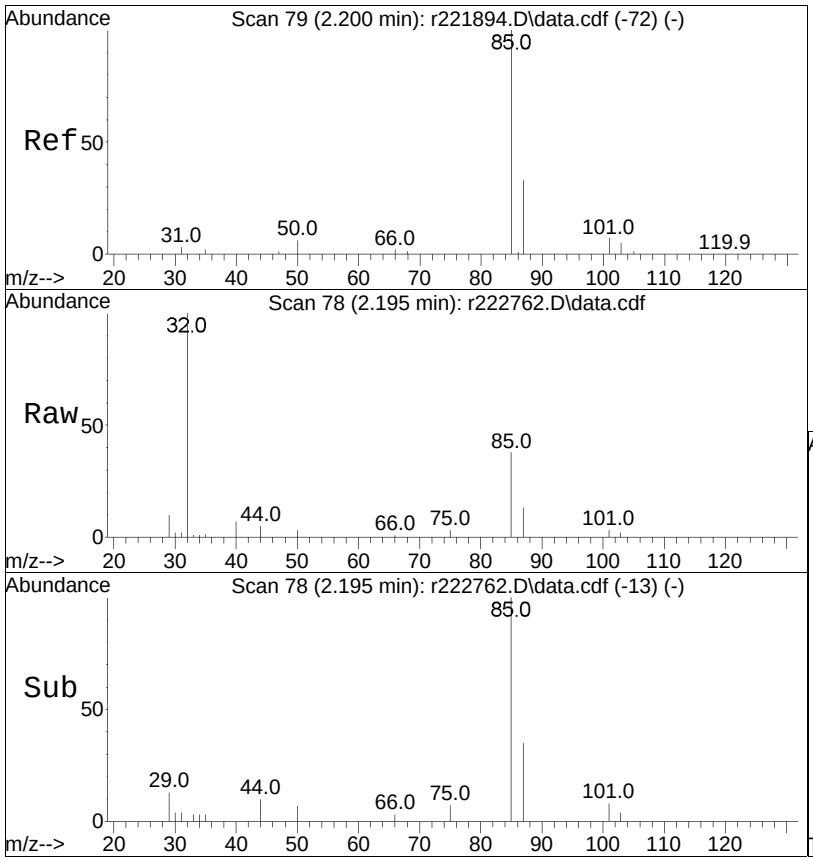
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : TO15-NY+Naphthalene - .b22\2024\03\0301T\r222756.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222762.D
Acq On : 1 Mar 2024 6:19 PM
Operator : AIRLAB22:BJB
Sample : L2409206-03,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:07 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

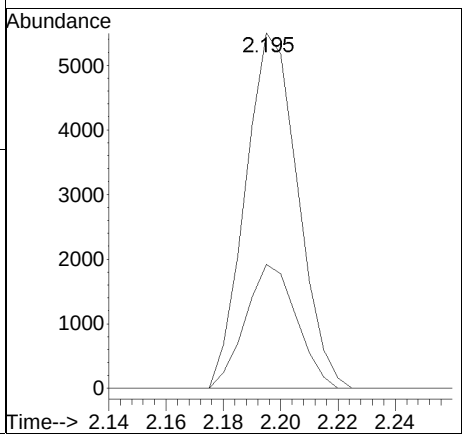


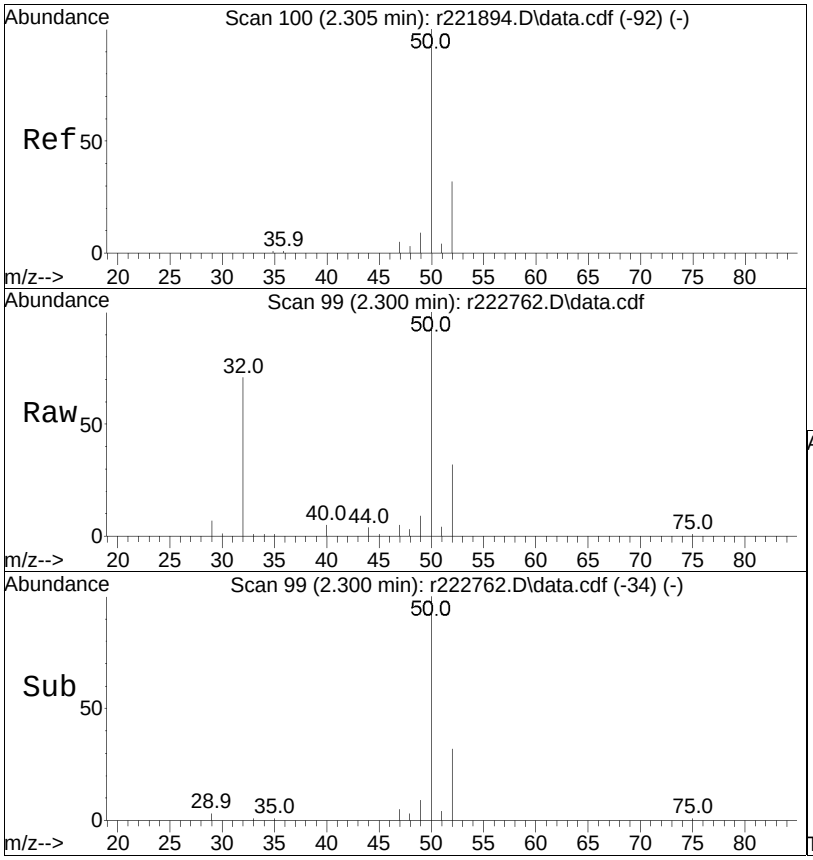


#5
dichlorodifluoromethane
Concen: 0.40 ppbV
RT: 2.195 min Scan# 78
Delta R.T. -0.005 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 85 Resp: 6997

Ion	Ratio	Lower	Upper
85	100		
87	34.9	26.3	39.5

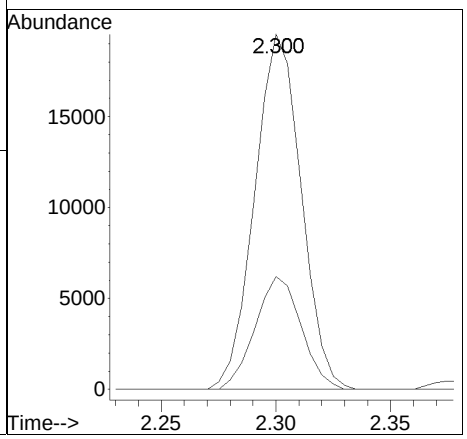


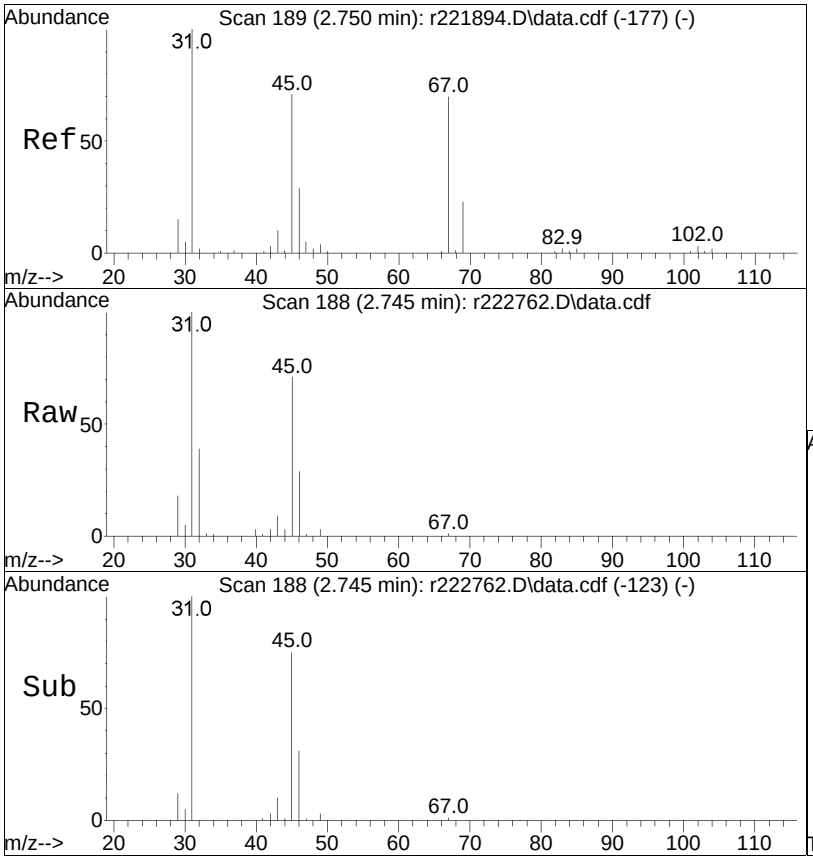


#6
chloromethane
Concen: 2.94 ppbV
RT: 2.300 min Scan# 99
Delta R.T. -0.005 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 50 Resp: 27545

Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.5	38.3

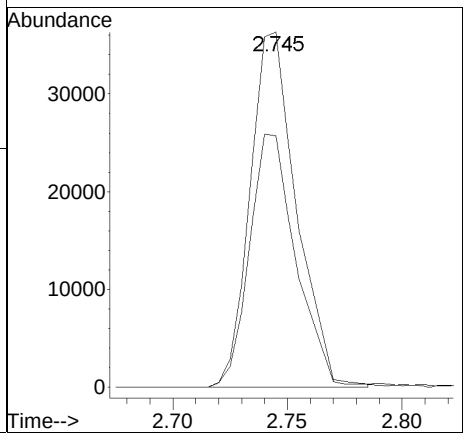


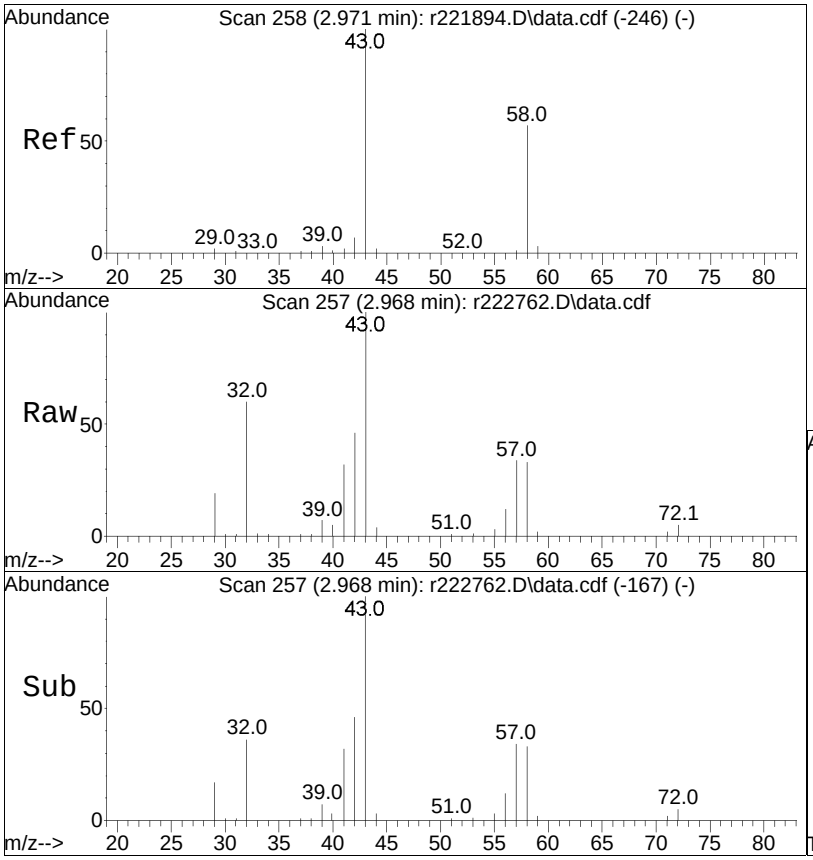


#15
ethanol
Concen: 13.49 ppbV
RT: 2.745 min Scan# 188
Delta R.T. -0.005 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 31 Resp: 46524

Ion	Ratio	Lower	Upper
31	100		
45	70.8	56.6	84.8

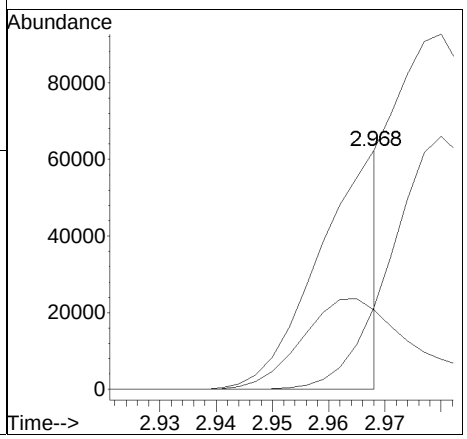


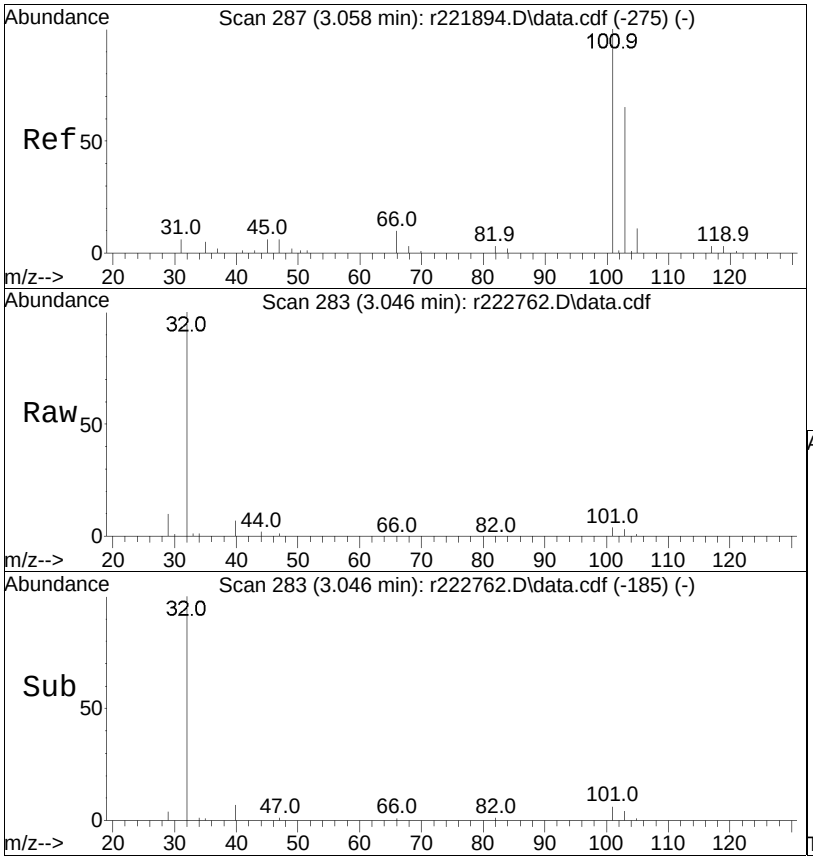


#19
acetone
Concen: 6.81 ppbV m
RT: 2.968 min Scan# 257
Delta R.T. -0.003 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 43 Resp: 47063

Ion	Ratio	Lower	Upper
43	100		
58	33.3	45.5	68.3#
57	34.2	1.0	1.6#

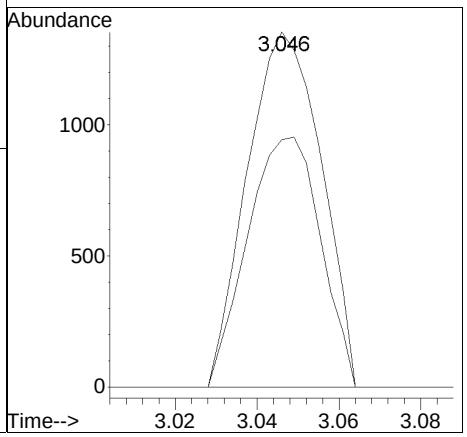


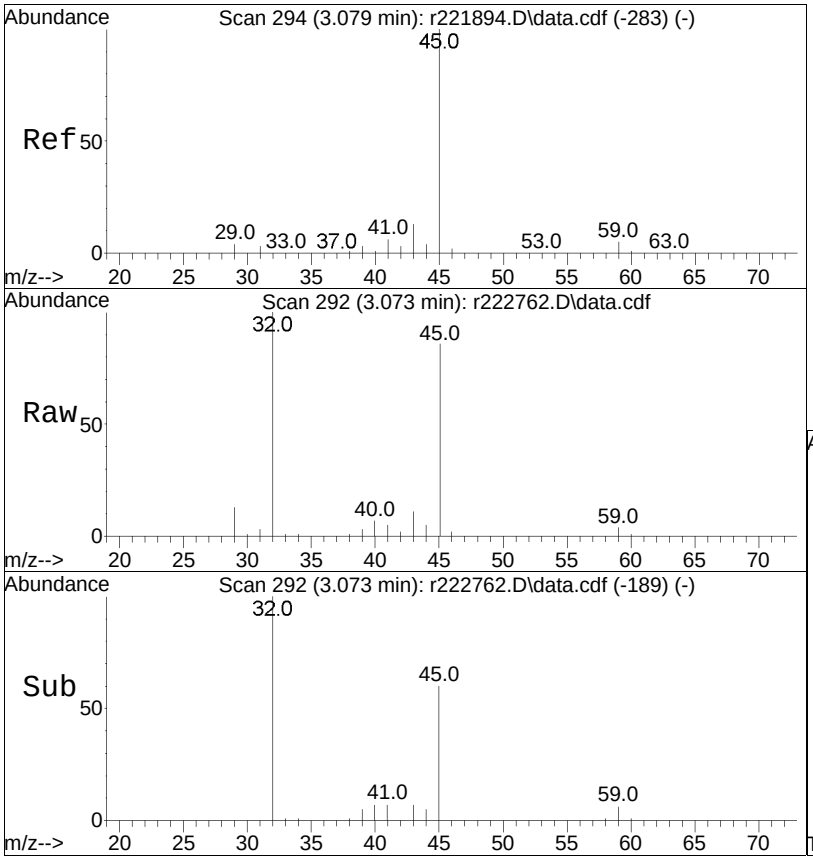


#21
trichlorofluoromethane
Concen: 0.18 ppbV
RT: 3.046 min Scan# 283
Delta R.T. -0.012 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion:101 Resp: 1704

Ion	Ratio	Lower	Upper
101	100		
103	69.7	52.2	78.4

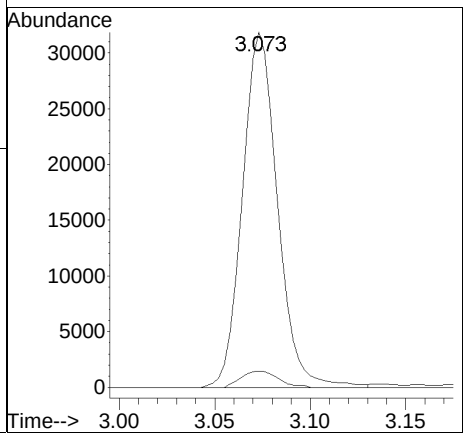


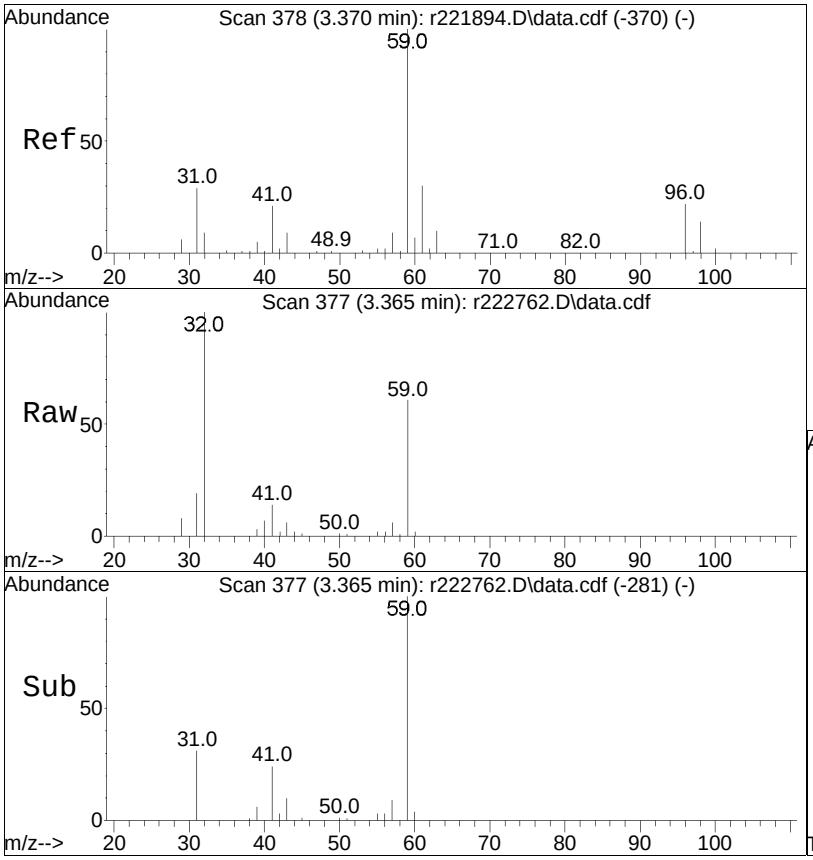


#22
isopropyl alcohol
Concen: 3.56 ppbV
RT: 3.073 min Scan# 292
Delta R.T. -0.006 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 45 Resp: 40748

Ion	Ratio	Lower	Upper
45	100		
59	4.6	4.0	6.0

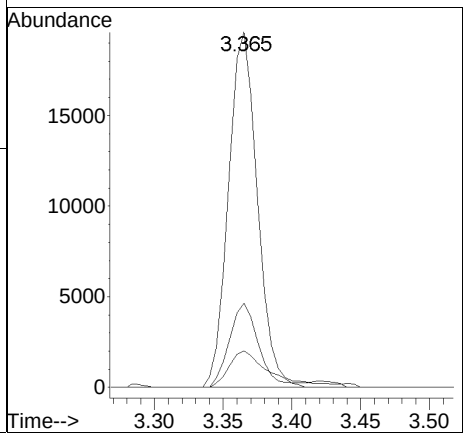


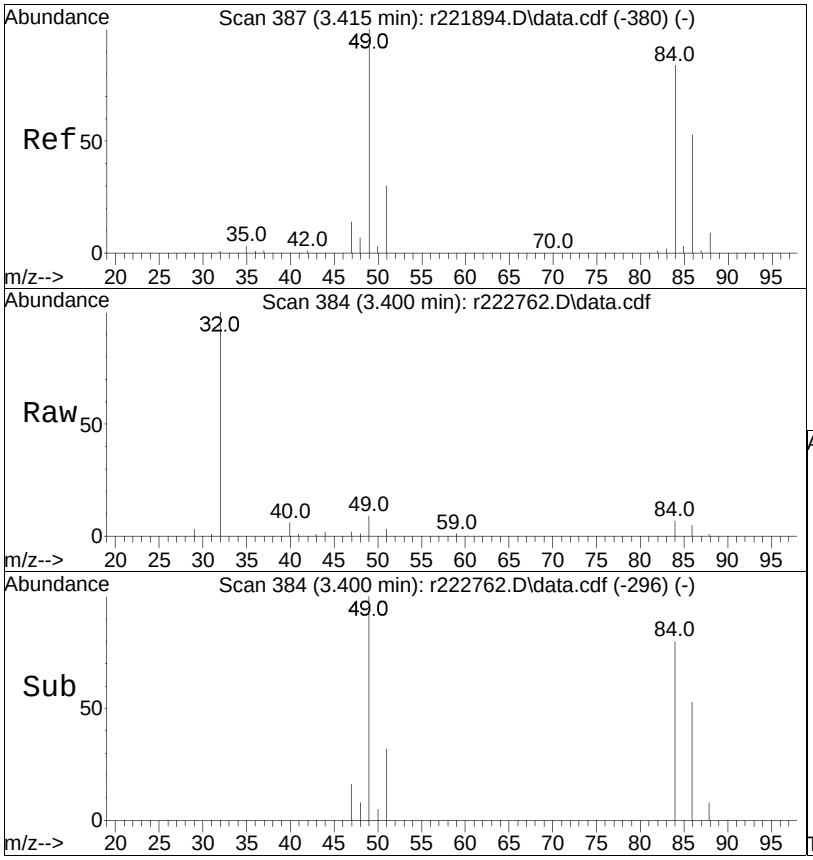


#27
tertiary butyl alcohol
Concen: 1.13 ppbV
RT: 3.365 min Scan# 377
Delta R.T. -0.005 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 59 Resp: 29272

Ion	Ratio	Lower	Upper
59	100		
41	23.7	16.9	25.3
43	10.3	7.5	11.3

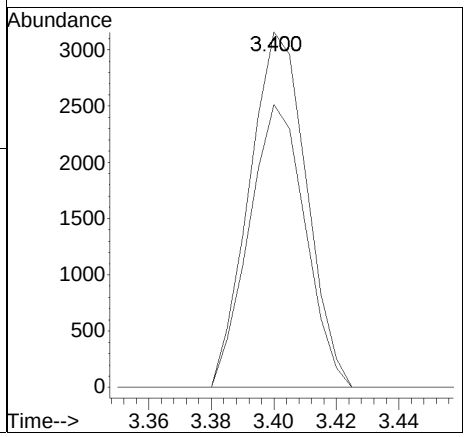


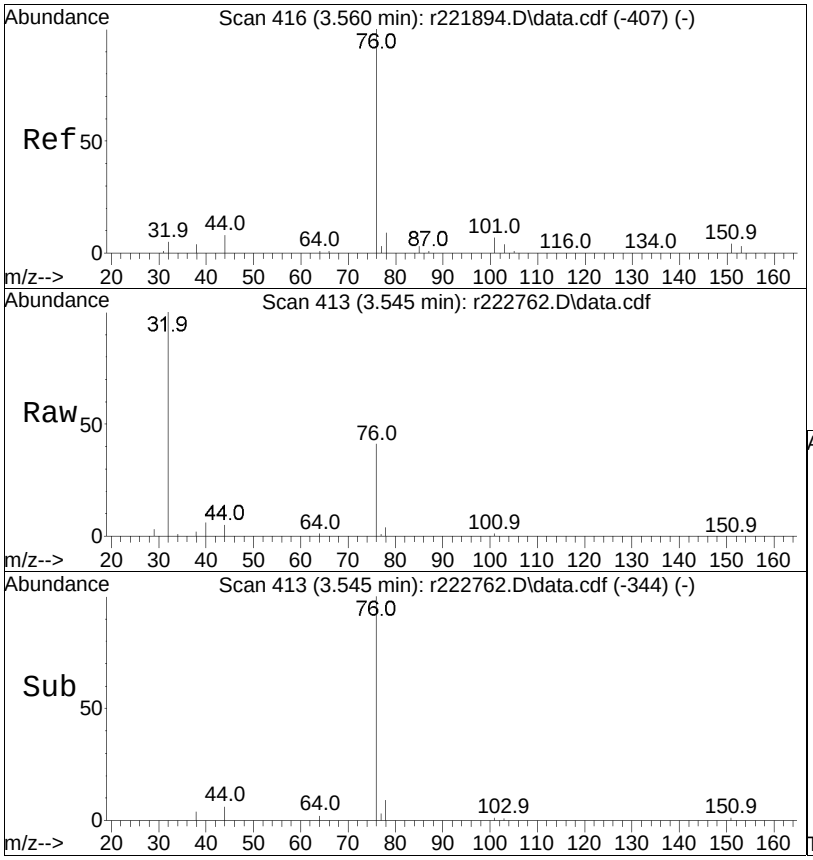


#28
methylene chloride
Concen: 0.24 ppbV
RT: 3.400 min Scan# 384
Delta R.T. -0.015 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 49 Resp: 4022

Ion	Ratio	Lower	Upper
49	100		
84	79.6	67.2	100.8

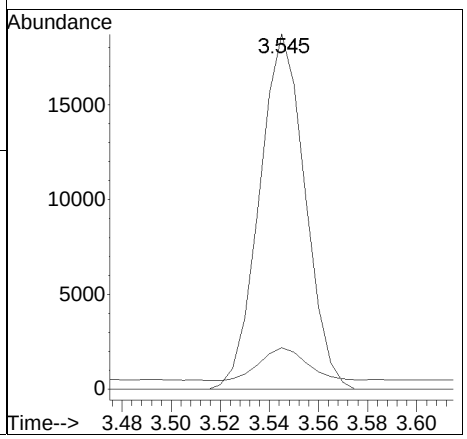


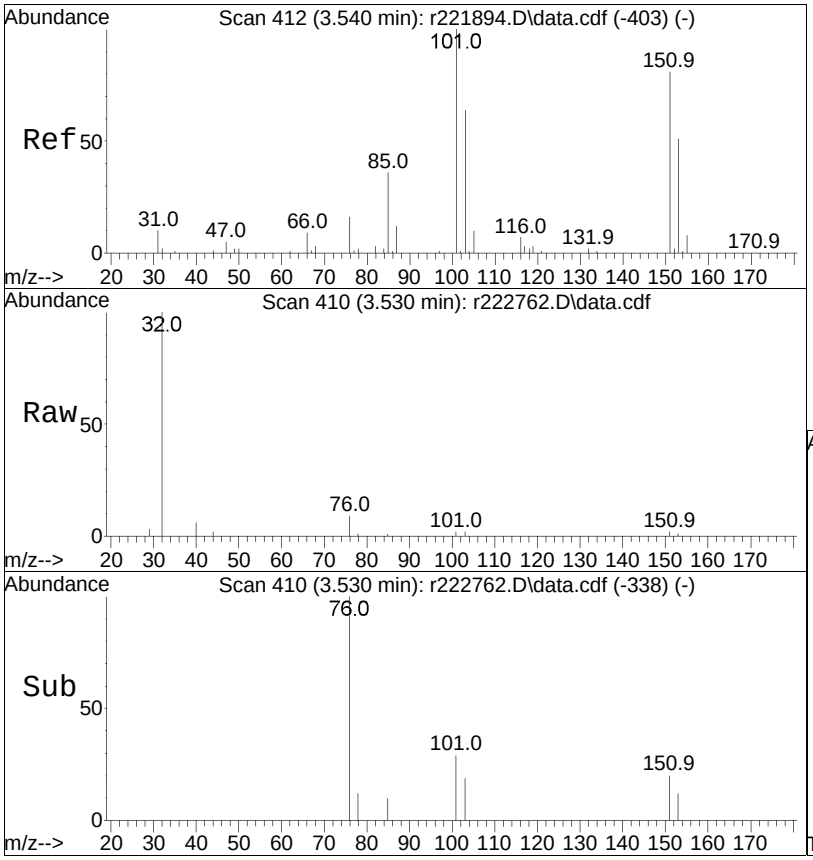


#30
carbon disulfide
Concen: 0.51 ppbV
RT: 3.545 min Scan# 413
Delta R.T. -0.015 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 76 Resp: 24178

Ion	Ratio	Lower	Upper
76	100		
44	11.7	6.8	10.2#

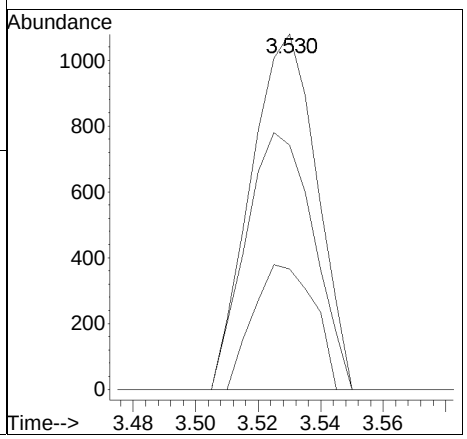


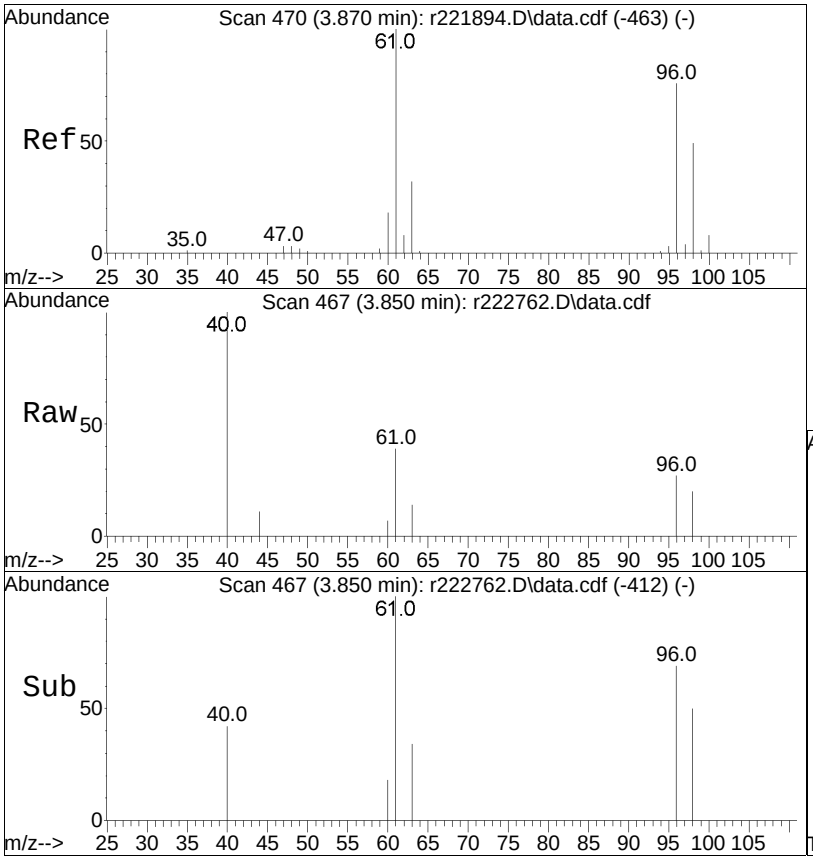


#31
Freon 113
Concen: 0.06 ppbV
RT: 3.530 min Scan# 410
Delta R.T. -0.010 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion:101 Resp: 1583

Ion	Ratio	Lower	Upper
101	100		
85	33.9	28.6	43.0
151	68.8	64.6	97.0

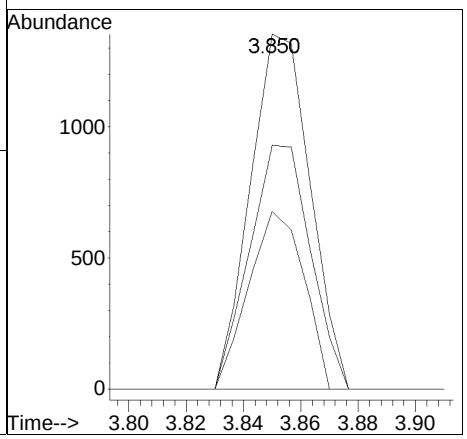


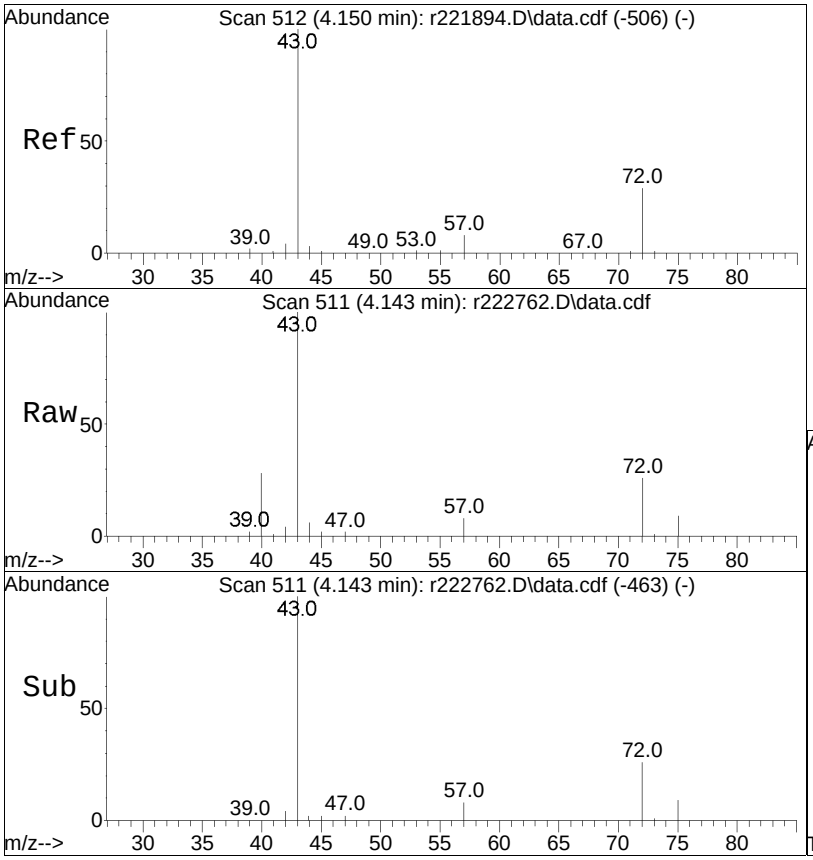


#32
trans-1,2-dichloroethene
Concen: 0.09 ppbV
RT: 3.850 min Scan# 467
Delta R.T. -0.020 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 61 Resp: 1966

Ion	Ratio	Lower	Upper
61	100		
96	68.7	61.0	91.6
98	50.1	39.0	58.6

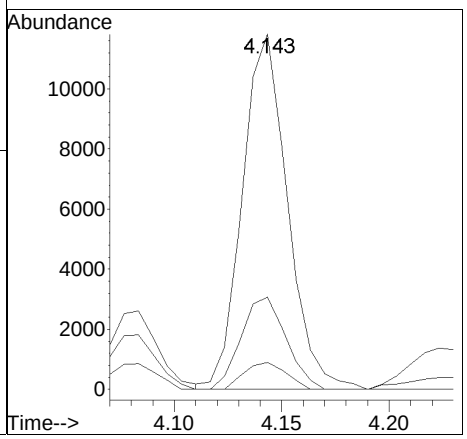


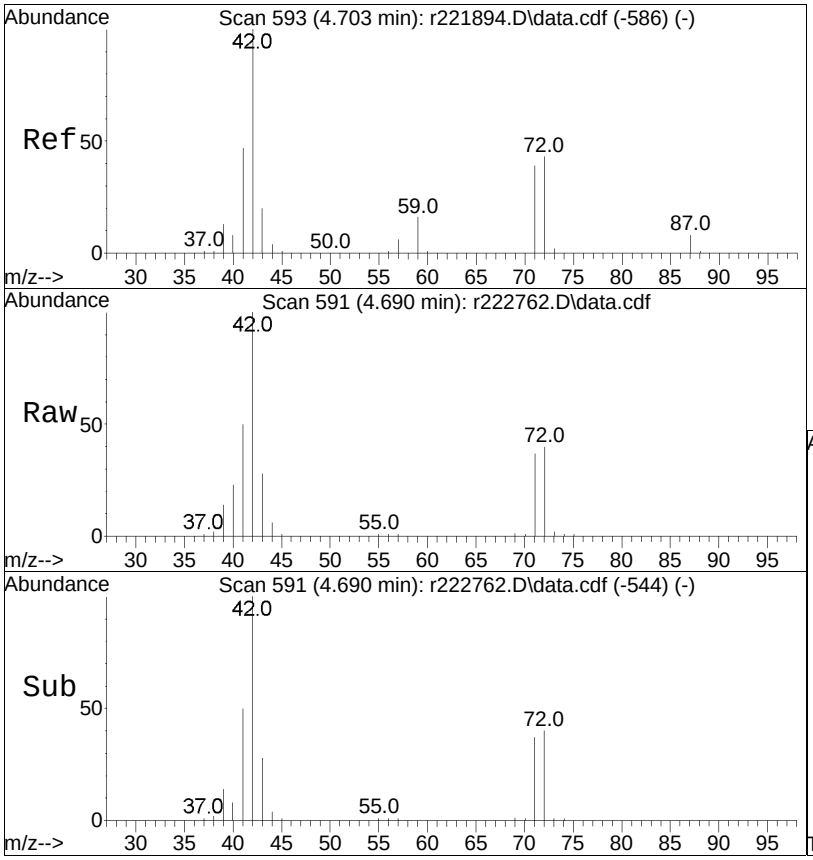


#36
2-butanone
Concen: 0.50 ppbV
RT: 4.143 min Scan# 511
Delta R.T. -0.007 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 43 Resp: 17297

Ion	Ratio	Lower	Upper
43	100		
72	26.0	23.0	34.6
57	7.6	6.3	9.5

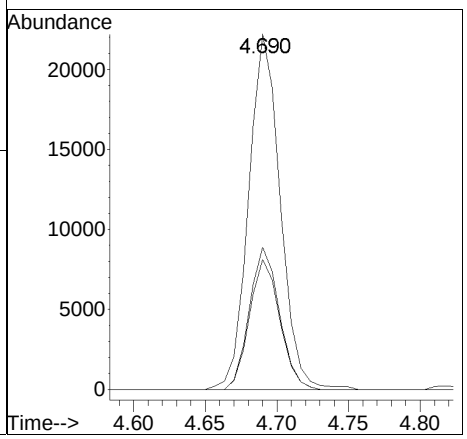


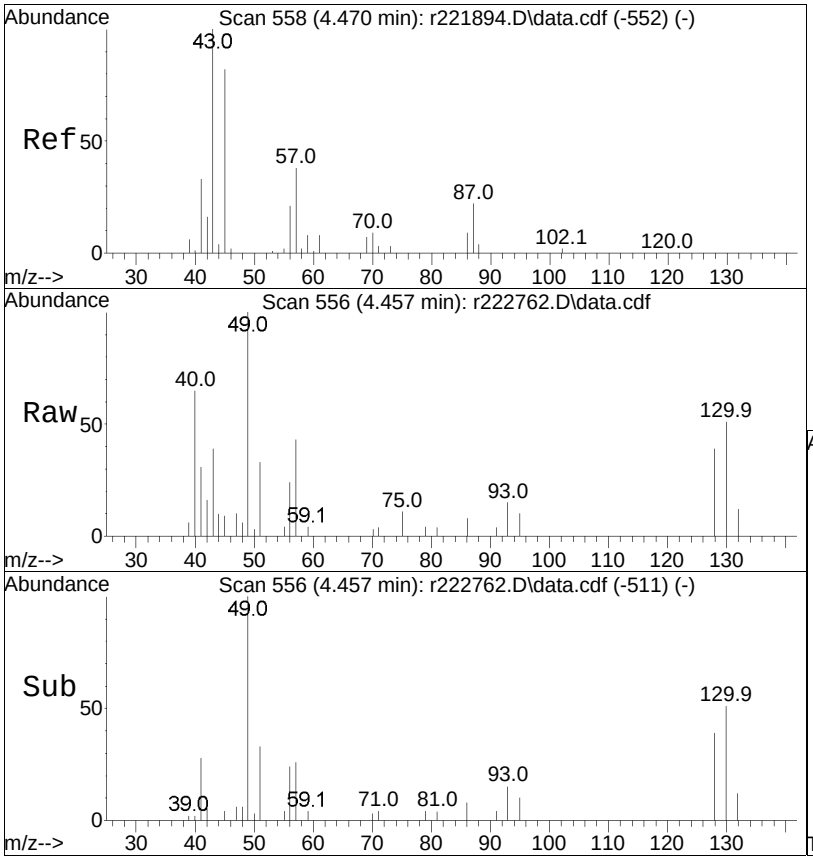


#40
Tetrahydrofuran
Concen: 1.53 ppbV
RT: 4.690 min Scan# 591
Delta R.T. -0.013 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 42 Resp: 33999

Ion	Ratio	Lower	Upper
42	100		
71	36.6	31.4	47.2
72	40.0	34.3	51.5

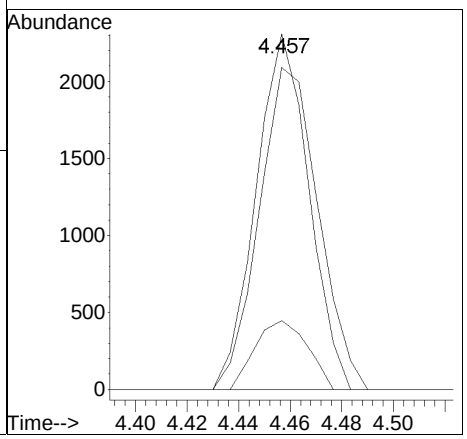


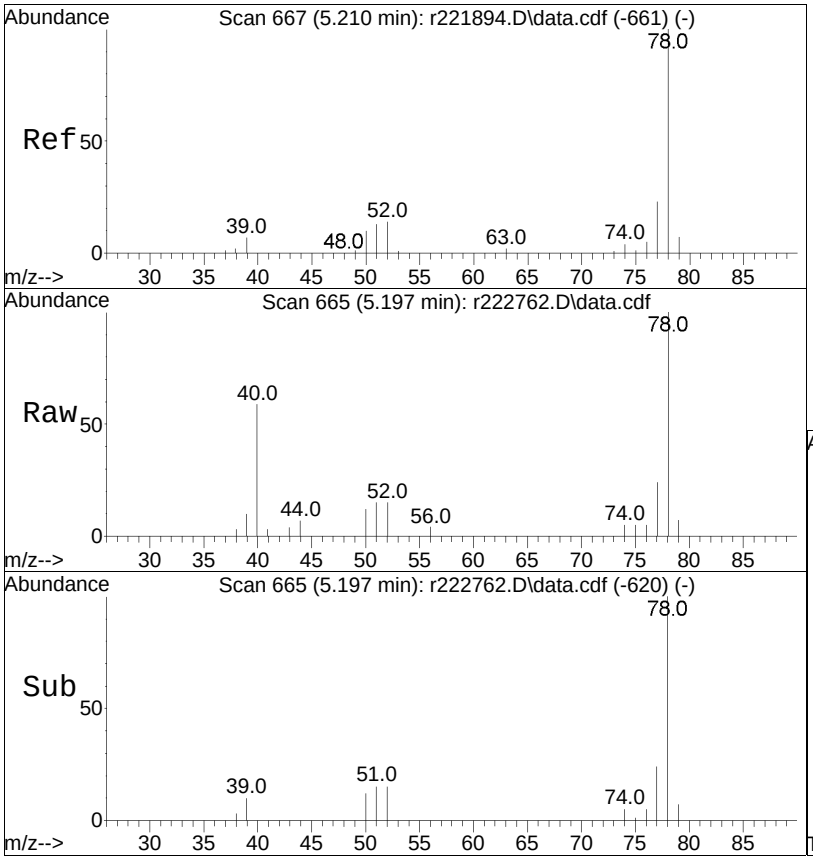


#44
hexane
Concen: 0.14 ppbV
RT: 4.457 min Scan# 556
Delta R.T. -0.013 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 57 Resp: 3282

Ion	Ratio	Lower	Upper
57	100		
43	90.6	210.8	316.2#
86	19.4	17.9	26.9

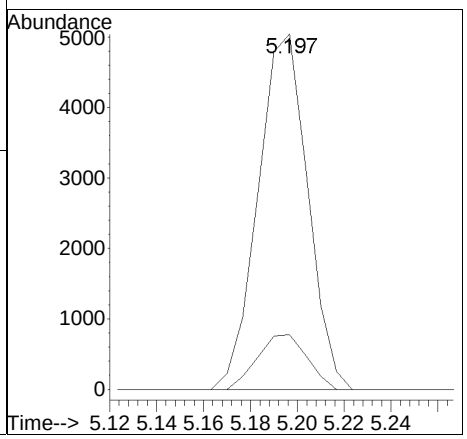


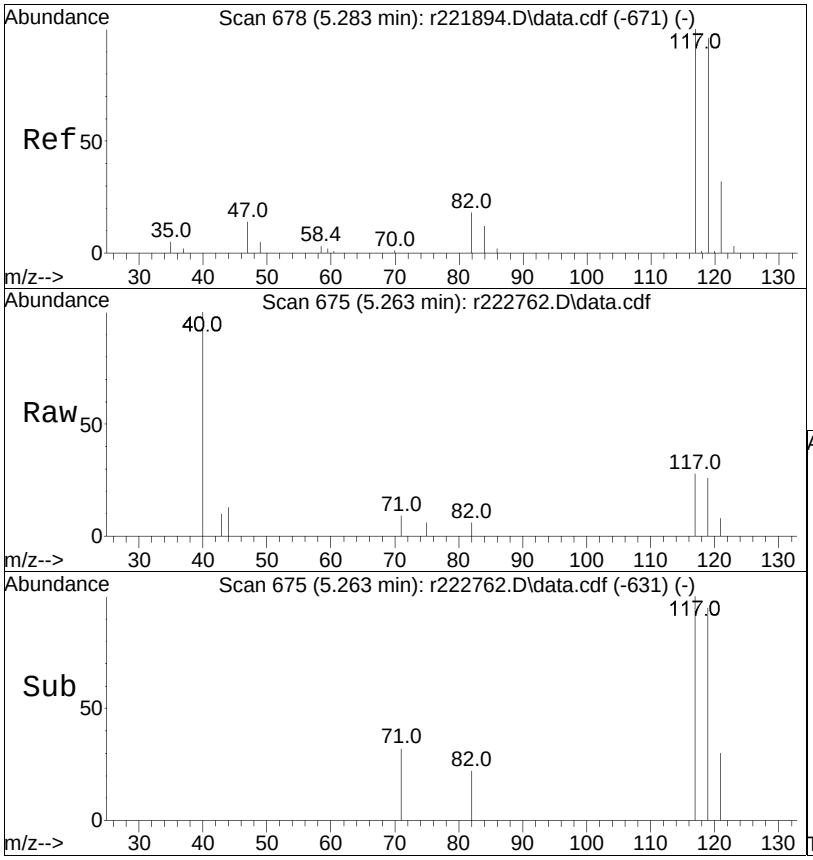


#50
benzene
Concen: 0.15 ppbV
RT: 5.197 min Scan# 665
Delta R.T. -0.013 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 78 Resp: 7424

Ion	Ratio	Lower	Upper
78	100		
52	15.4	11.3	16.9

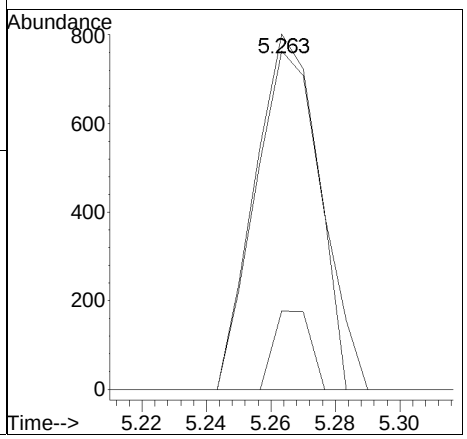


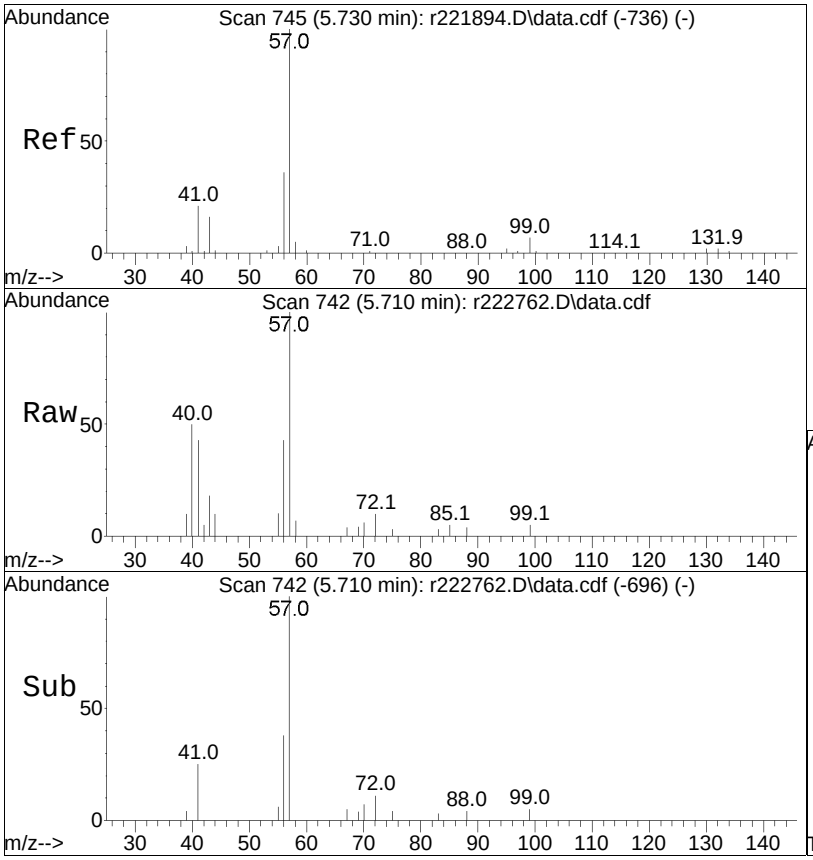


#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 5.263 min Scan# 675
Delta R.T. -0.020 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion:117 Resp: 1084

Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.5	114.7
82	22.1	14.7	22.1

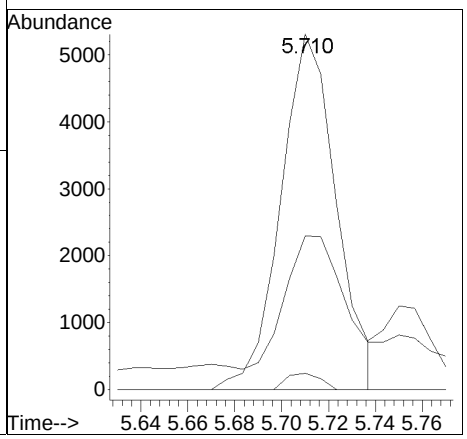


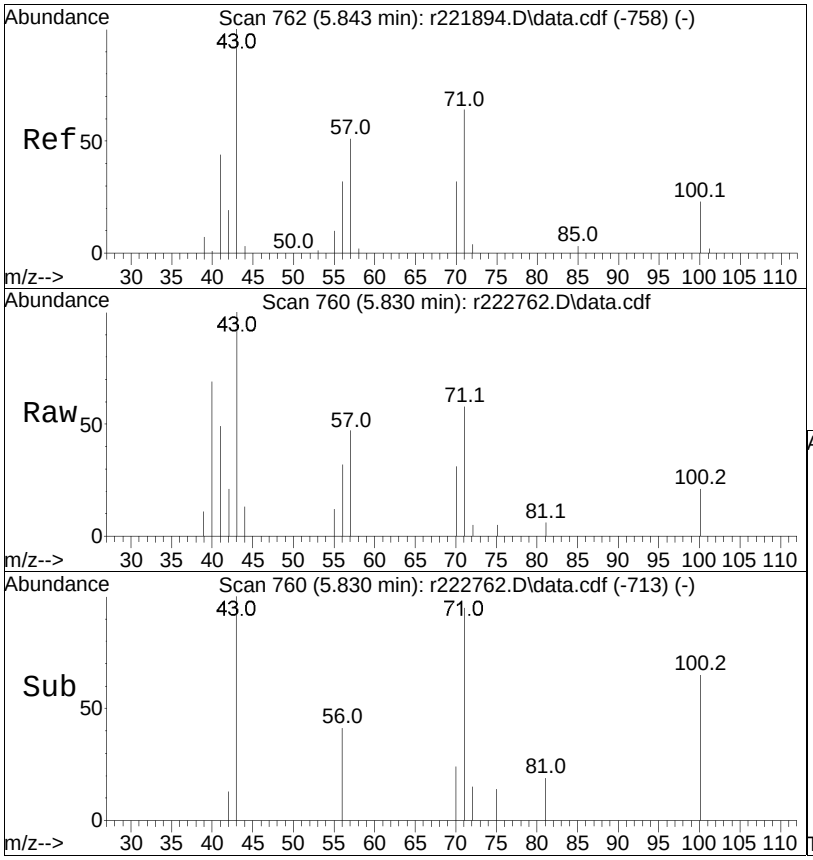


#60
2,2,4-trimethylpentane
Concen: 0.12 ppbV
RT: 5.710 min Scan# 742
Delta R.T. -0.020 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 57 Resp: 8739

Ion	Ratio	Lower	Upper
57	100		
99	4.5	5.7	8.5#
41	43.2	16.9	25.3#

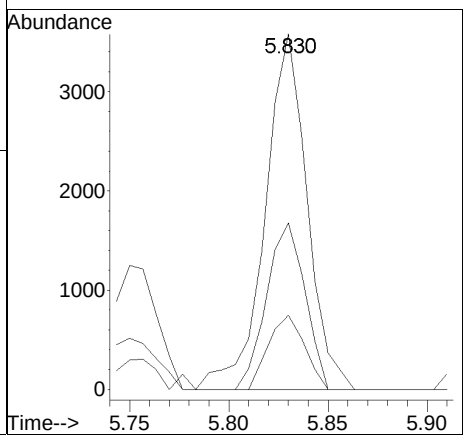


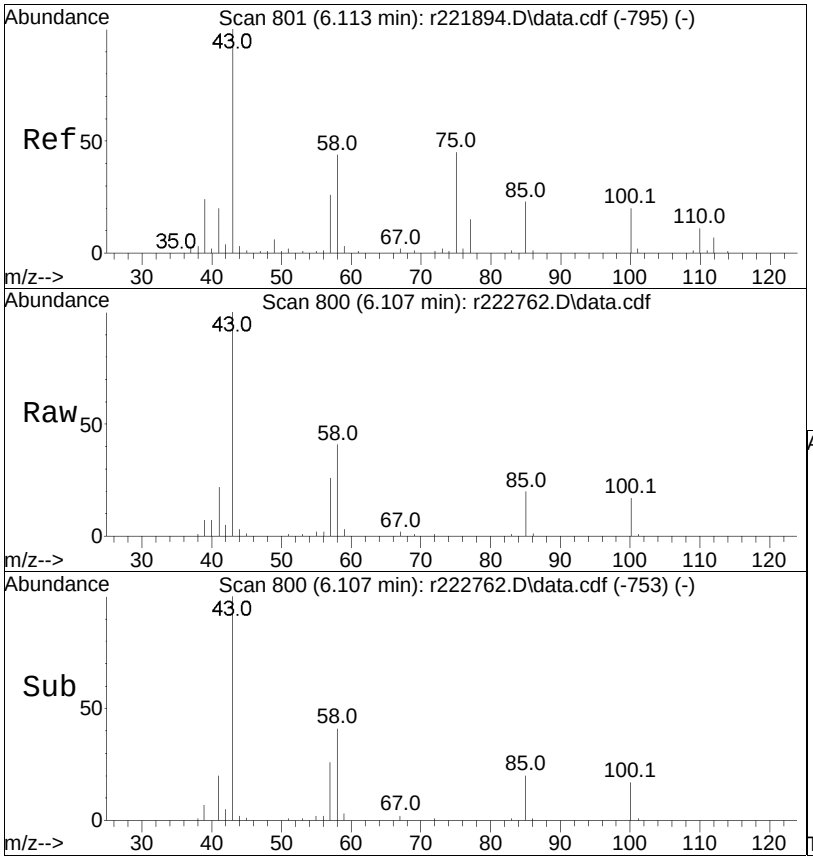


#62
heptane
Concen: 0.18 ppbV
RT: 5.830 min Scan# 760
Delta R.T. -0.013 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 43 Resp: 5286

Ion	Ratio	Lower	Upper
43	100		
57	46.9	40.4	60.6
100	20.9	19.0	28.6

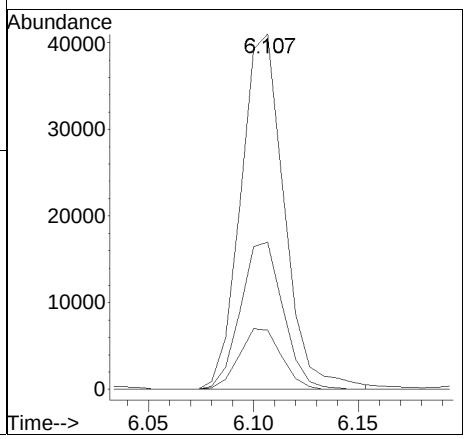


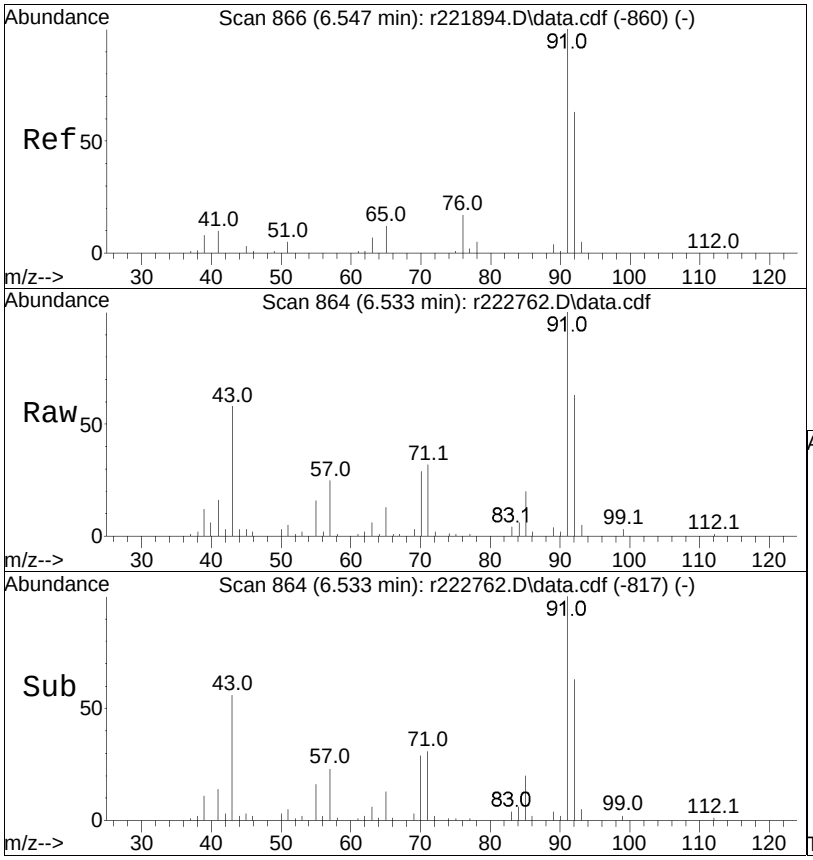


#64
4-methyl-2-pentanone
Concen: 1.78 ppbV m
RT: 6.107 min Scan# 800
Delta R.T. -0.007 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 43 Resp: 59215

Ion	Ratio	Lower	Upper
43	100		
58	41.4	34.9	52.3
100	16.7	16.1	24.1

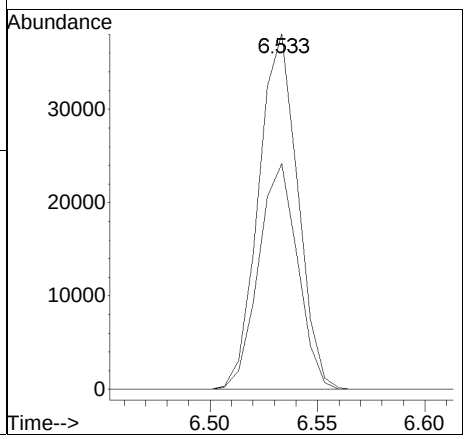


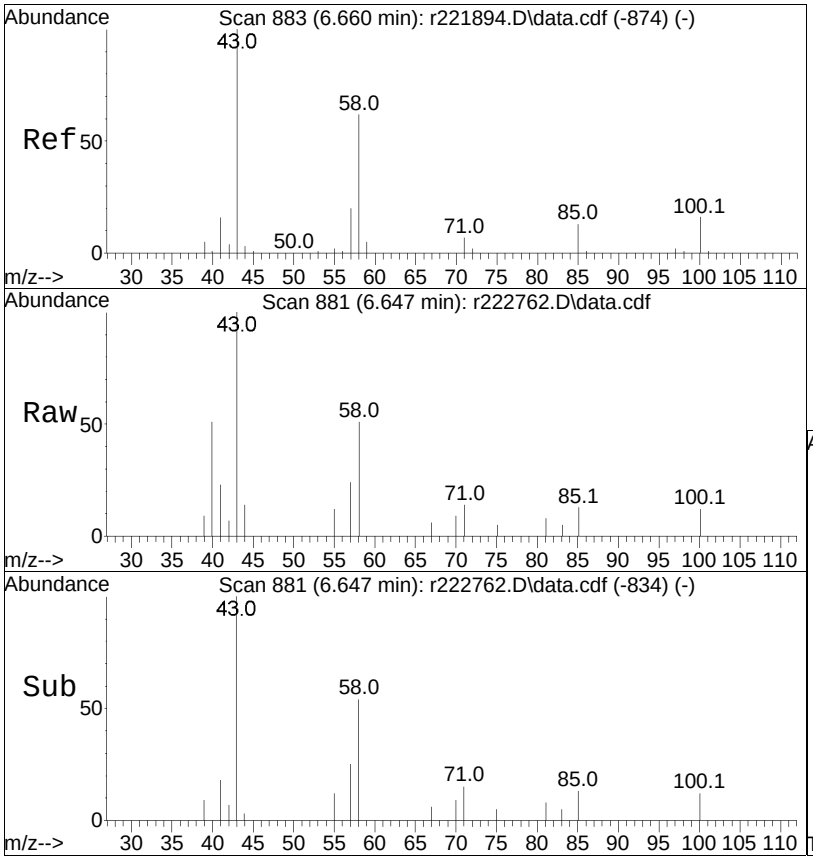


#68
toluene
Concen: 0.68 ppbV
RT: 6.533 min Scan# 864
Delta R.T. -0.013 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 91 Resp: 48313

Ion	Ratio	Lower	Upper
91	100		
92	63.5	50.7	76.1

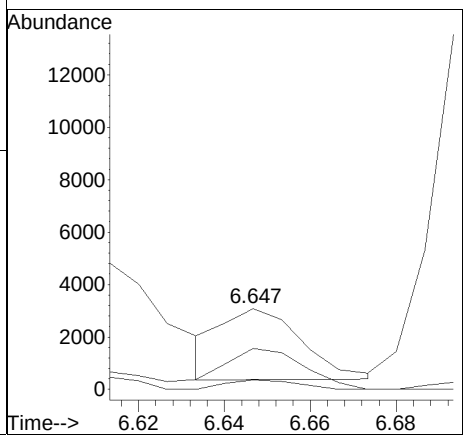


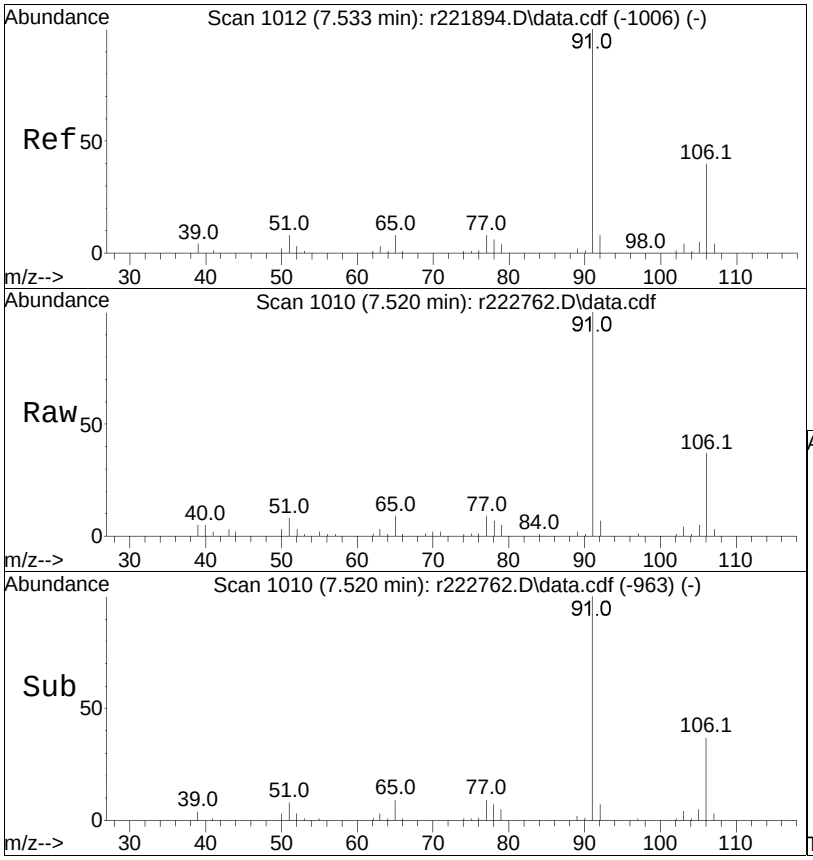


#72
2-hexanone
Concen: 0.08 ppbV
RT: 6.647 min Scan# 881
Delta R.T. -0.013 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 43 Resp: 3544

Ion	Ratio	Lower	Upper
43	100		
58	50.8	49.2	73.8
100	11.7	12.4	18.6#

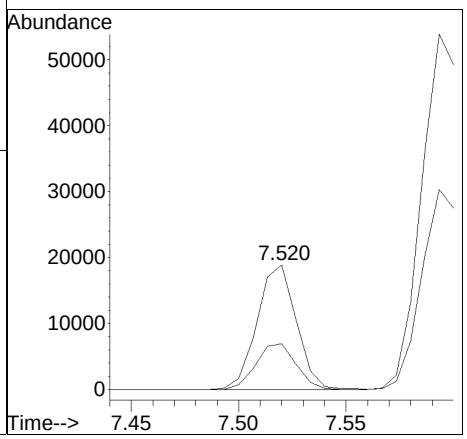


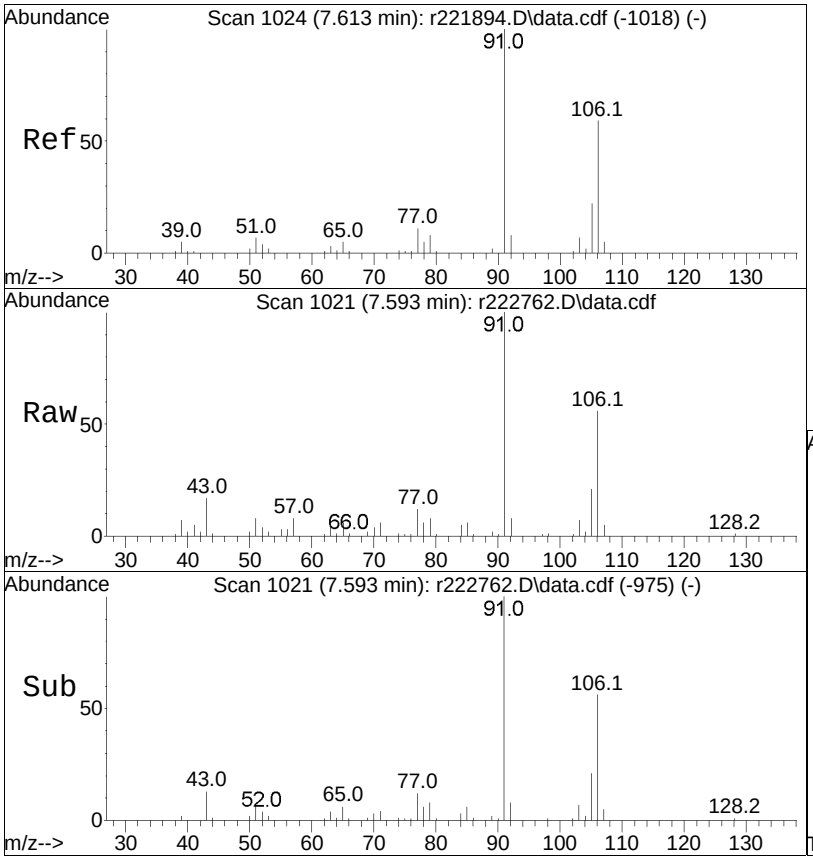


#81
ethylbenzene
Concen: 0.28 ppbV
RT: 7.520 min Scan# 1010
Delta R.T. -0.013 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 91 Resp: 23872

Ion	Ratio	Lower	Upper
91	100		
106	36.6	31.7	47.5

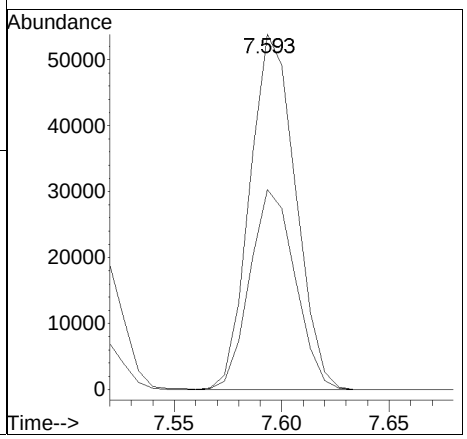


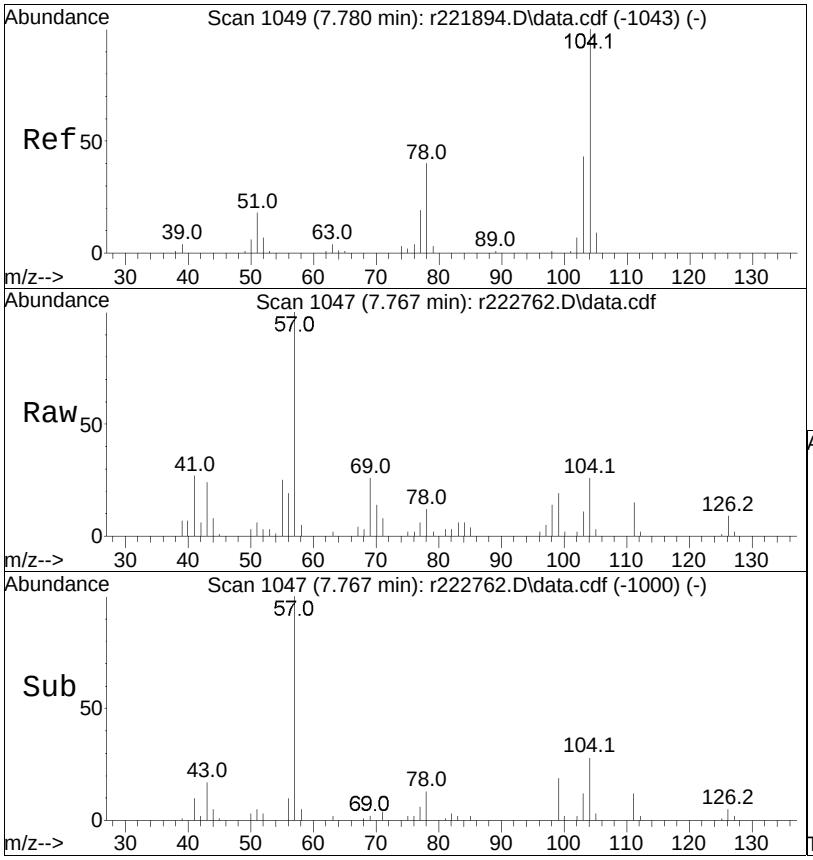


#83
m+p-xylene
Concen: 1.19 ppbV
RT: 7.593 min Scan# 1021
Delta R.T. -0.020 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 91 Resp: 79664

Ion	Ratio	Lower	Upper
91	100		
106	56.2	47.4	71.2

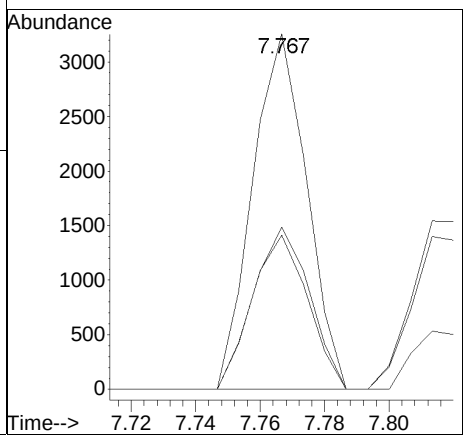


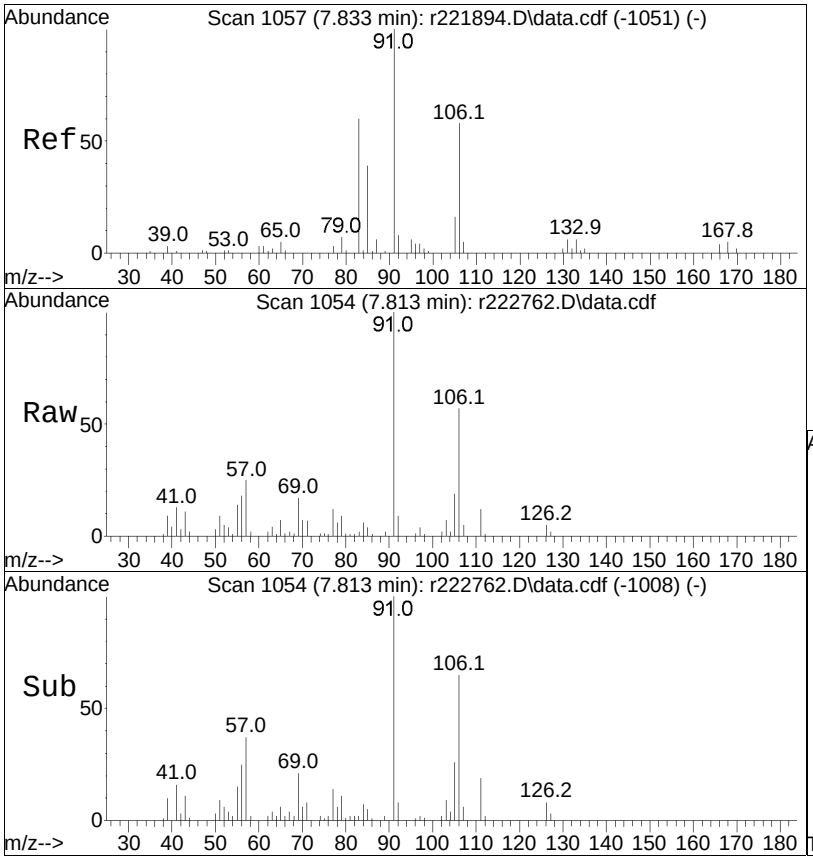


#85
styrene
Concen: 0.06 ppbV
RT: 7.767 min Scan# 1047
Delta R.T. -0.013 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion:104 Resp: 3793

Ion	Ratio	Lower	Upper
104	100		
103	43.4	34.3	51.5
78	45.6	32.3	48.5

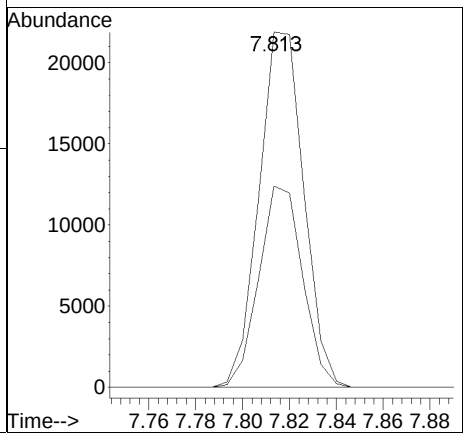


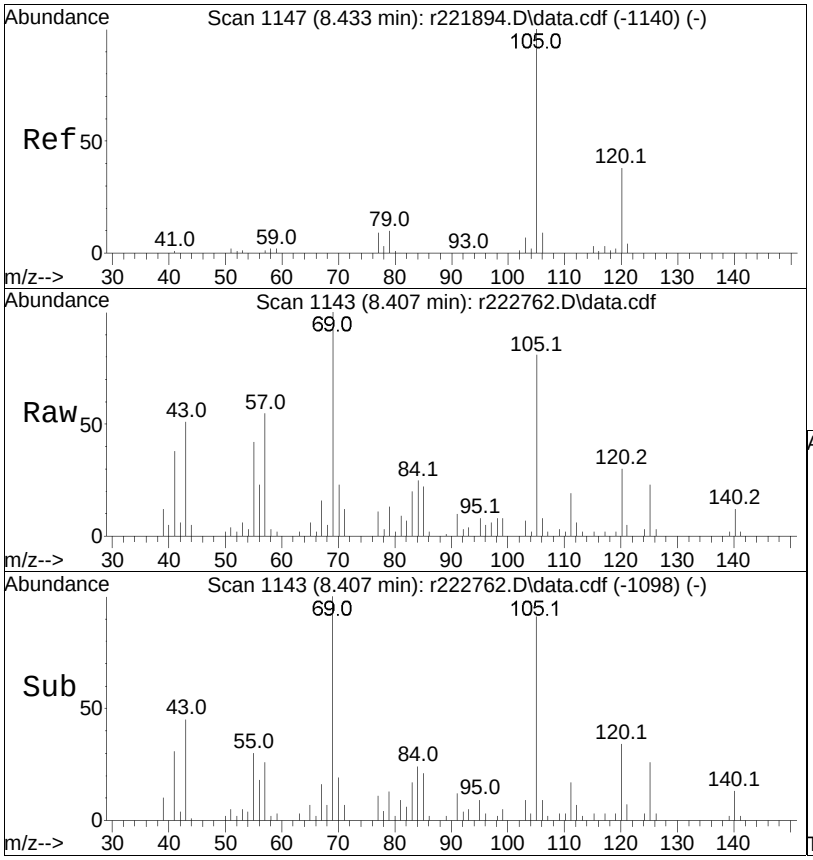


#87
o-xylene
Concen: 0.45 ppbV
RT: 7.813 min Scan# 1054
Delta R.T. -0.020 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 91 Resp: 29181

Ion	Ratio	Lower	Upper
91	100		
106	56.7	46.2	69.4

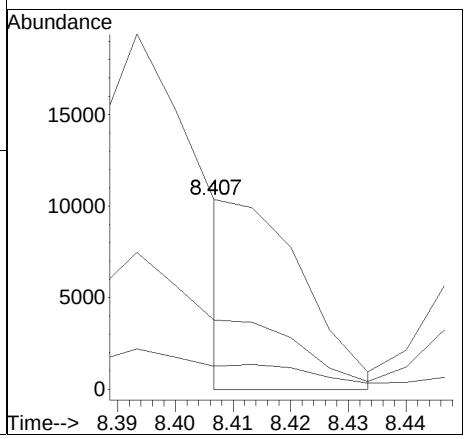


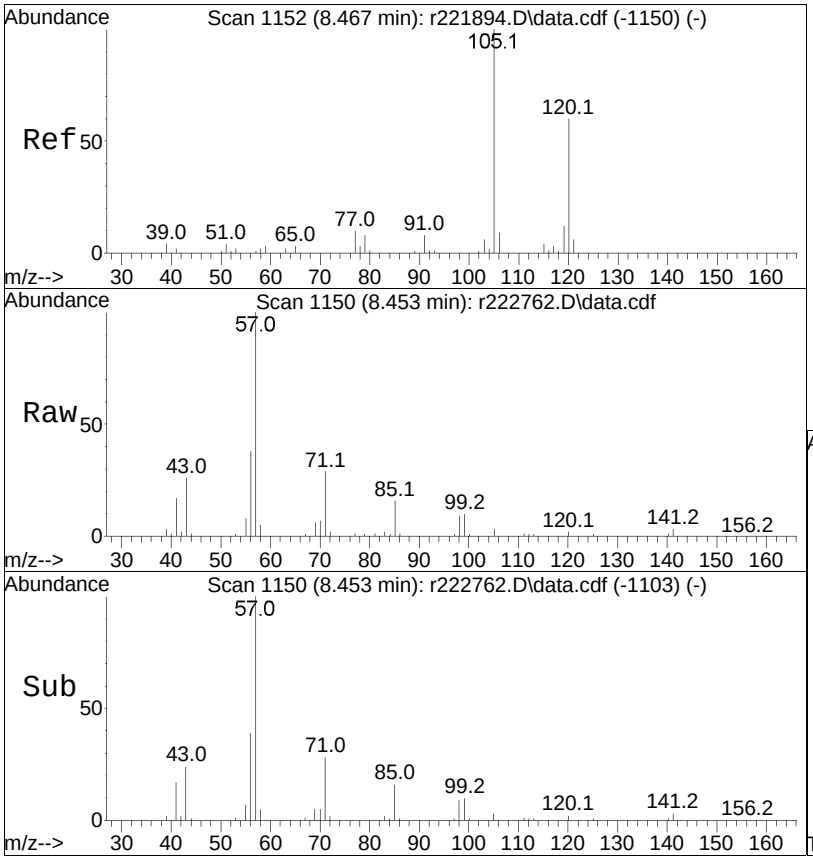


#96
4-ethyl toluene
Concen: 0.09 ppbV m
RT: 8.407 min Scan# 1143
Delta R.T. -0.027 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion:105 Resp: 8769

Ion	Ratio	Lower	Upper
105	100		
120	36.5	30.7	46.1
91	12.2	7.2	10.8#

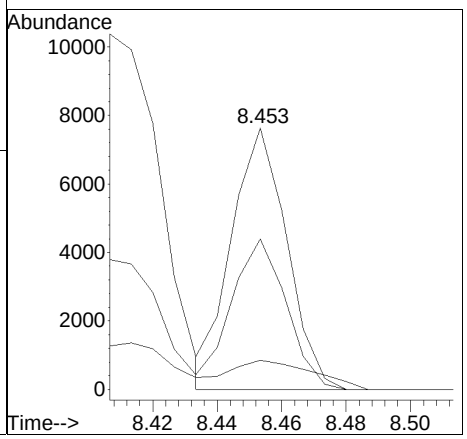


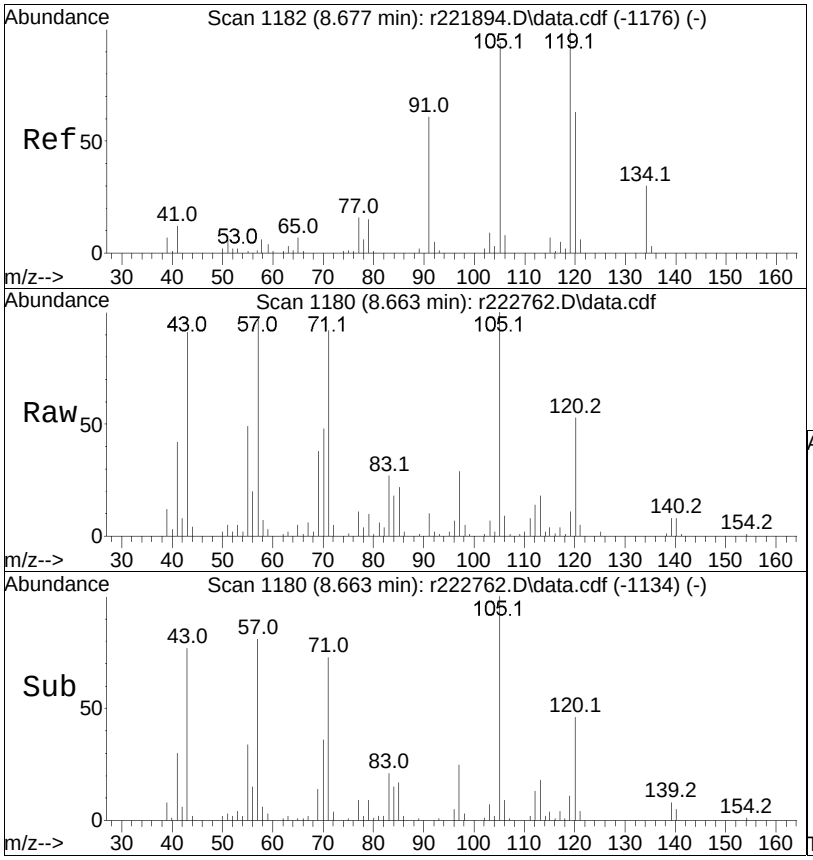


#97
1,3,5-trimethylbenzene
Concen: 0.12 ppbV
RT: 8.453 min Scan# 1150
Delta R.T. -0.013 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion:105 Resp: 9114

Ion	Ratio	Lower	Upper
105	100		
120	57.5	47.8	71.8
91	11.2	6.6	10.0#

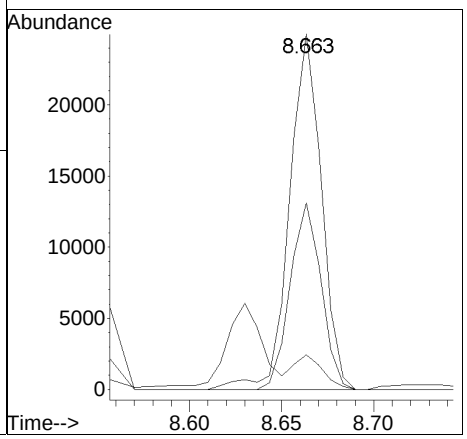




#99
1,2,4-trimethylbenzene
Concen: 0.40 ppbV
RT: 8.663 min Scan# 1180
Delta R.T. -0.013 min
Lab File: r222762.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion:105 Resp: 30154

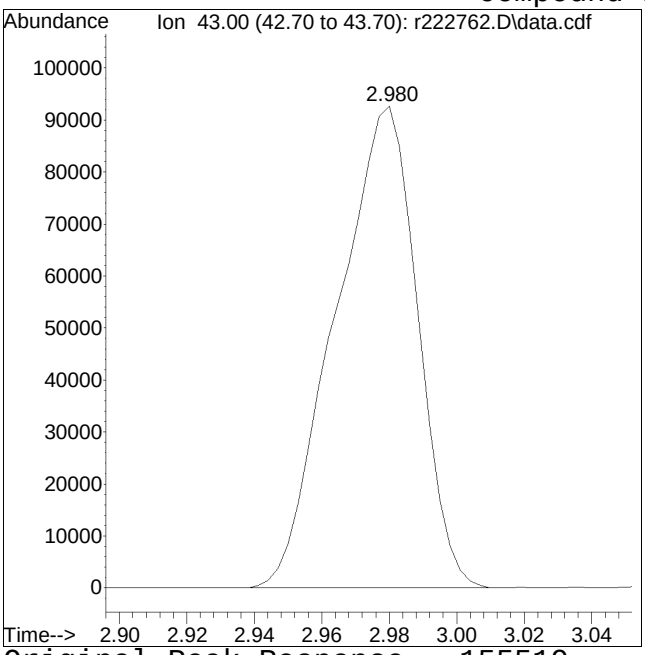
Ion	Ratio	Lower	Upper
105	100		
120	52.5	53.8	80.8#
91	9.7	52.2	78.2#



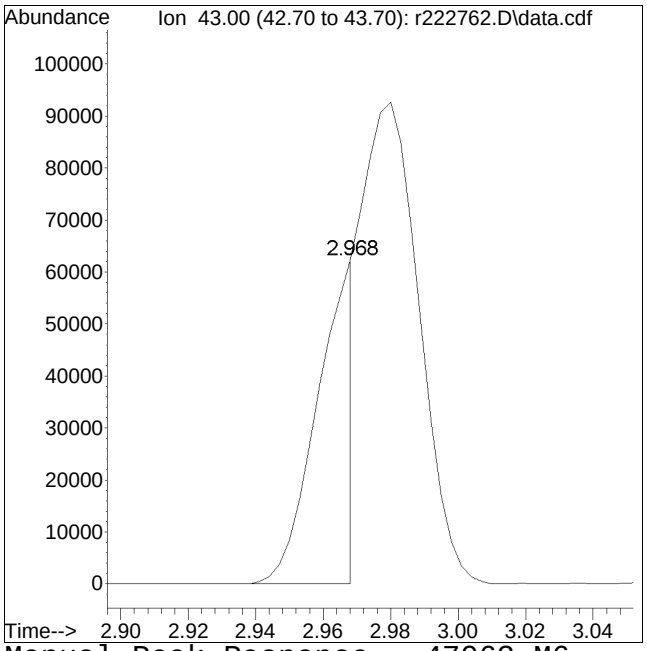
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222762.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:6: 9 Instrument :
Sample : L2409206-03,3,250,250 Quant Date : 3/2/2024 8:06 am

Compound #19: acetone



Original Peak Response = 155519



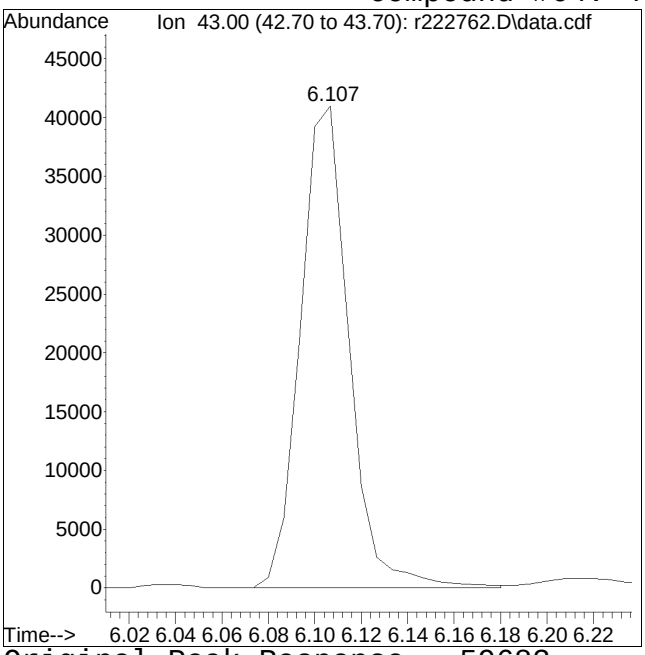
Manual Peak Response = 47063 M6

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

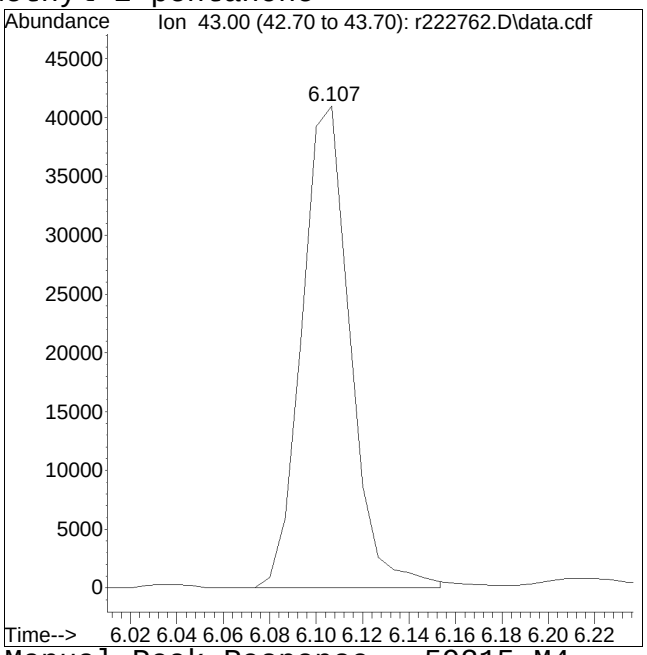
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222762.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:6: 9 Instrument :
Sample : L2409206-03,3,250,250 Quant Date : 3/2/2024 8:06 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 59683



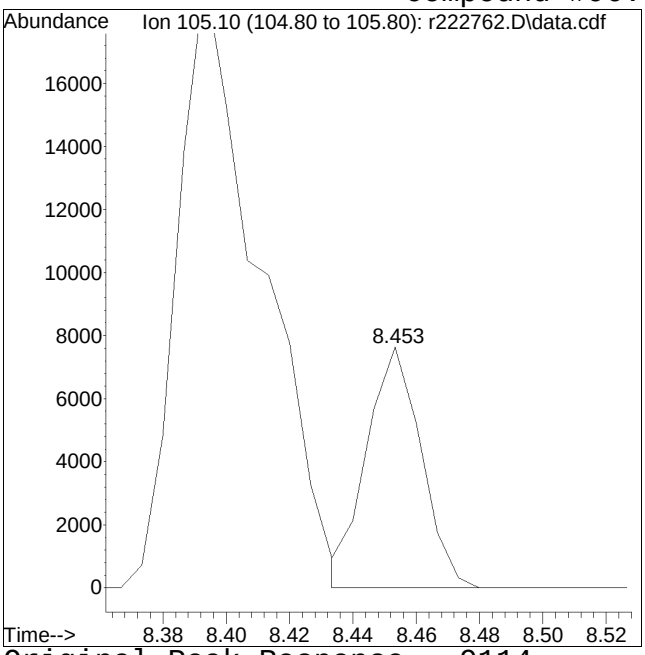
Manual Peak Response = 59215 M4

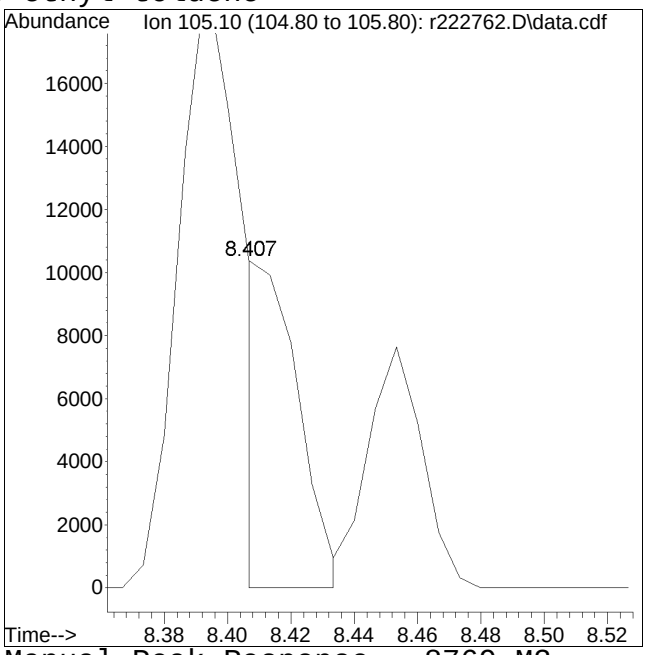
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222762.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:6: 9 Instrument :
Sample : L2409206-03,3,250,250 Quant Date : 3/2/2024 8:06 am

Compound #96: 4-ethyl toluene





Original Peak Response = 9114 Manual Peak Response = 8769 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222763.D
Acq On : 1 Mar 2024 6:51 PM
Operator : AIRLAB22:BJB
Sample : L2409206-05,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:34 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.437	49	218464	10.000	ppbV	-0.01
Standard Area = 199252			Recovery = 109.64%			
43) 1,4-difluorobenzene	5.363	114	686040	10.000	ppbV	-0.01
Standard Area = 623148			Recovery = 110.09%			
67) chlorobenzene-D5	7.333	54	82582	10.000	ppbV	#-0.01
Standard Area = 82823			Recovery = 99.71%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.200	85	6942	0.395	ppbV	98
6) chloromethane	2.305	50	17357	1.818	ppbV	100
7) Freon-114	2.365		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.		
14) chloroethane	2.700		0	N.D.		
15) ethanol	2.745	31	85412	24.341	ppbV	100
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.968	43	82330M6	11.714	ppbV	
21) trichlorofluoromethane	3.049	101	1995	0.213	ppbV	91
22) isopropyl alcohol	3.076	45	11060	0.949	ppbV	100
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	3.365	59	11693	0.445	ppbV #	92
28) methylene chloride	3.405	49	4655	0.269	ppbV	96
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	3.545	76	31468	0.655	ppbV #	95
31) Freon 113	3.530	101	1803	0.069	ppbV	98
32) trans-1,2-dichloroethene	3.857		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	3.983		0	N.D.		
36) 2-butanone	4.143	43	10824	0.305	ppbV	97
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	4.497		0	N.D.		
40) Tetrahydrofuran	4.690	42	38099	1.688	ppbV	98
42) 1,2-dichloroethane	4.850		0	N.D.		
44) hexane	4.457	57	5135	0.212	ppbV #	4

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222763.D
Acq On : 1 Mar 2024 6:51 PM
Operator : AIRLAB22:BJB
Sample : L2409206-05,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:34 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	5.197	78	10089	0.197	ppbV	96
52) carbon tetrachloride	5.263	117	1371	0.081	ppbV	98
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	5.677		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	5.710	57	7762	0.100	ppbV #	71
62) heptane	5.830	43	5726	0.187	ppbV	95
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	6.107	43	9828	0.289	ppbV	95
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	6.493		0	N.D.		
68) toluene	6.533	91	207483	3.012	ppbV	99
72) 2-hexanone	6.647	43	8524	0.211	ppbV	96
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	7.047		0	N.D.		
80) chlorobenzene	7.360		0	N.D.		
81) ethylbenzene	7.520	91	22441	0.269	ppbV	97
83) m+p-xylene	7.593	91	76637	1.181	ppbV	97
84) bromoform	0.000		0	N.D.		
85) styrene	7.767	104	5068	0.087	ppbV	96
86) 1,1,2,2-tetrachloroethane	7.987		0	N.D.		
87) o-xylene	7.820	91	32996	0.521	ppbV	94
96) 4-ethyl toluene	8.407	105	10033M3	0.107	ppbV	
97) 1,3,5-trimethylbenzene	8.453	105	13932	0.182	ppbV	95
99) 1,2,4-trimethylbenzene	8.663	105	37677	0.515	ppbV #	57
101) Benzyl Chloride	8.850		0	N.D.		
102) 1,3-dichlorobenzene	8.777		0	N.D.		
103) 1,4-dichlorobenzene	8.777		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	9.850		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\Airlab22\2024\03\0301T\
Data File : r222763.D
Acq On : 1 Mar 2024 6:51 PM
Operator : AIRLAB22:BJB
Sample : L2409206-05,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:34 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

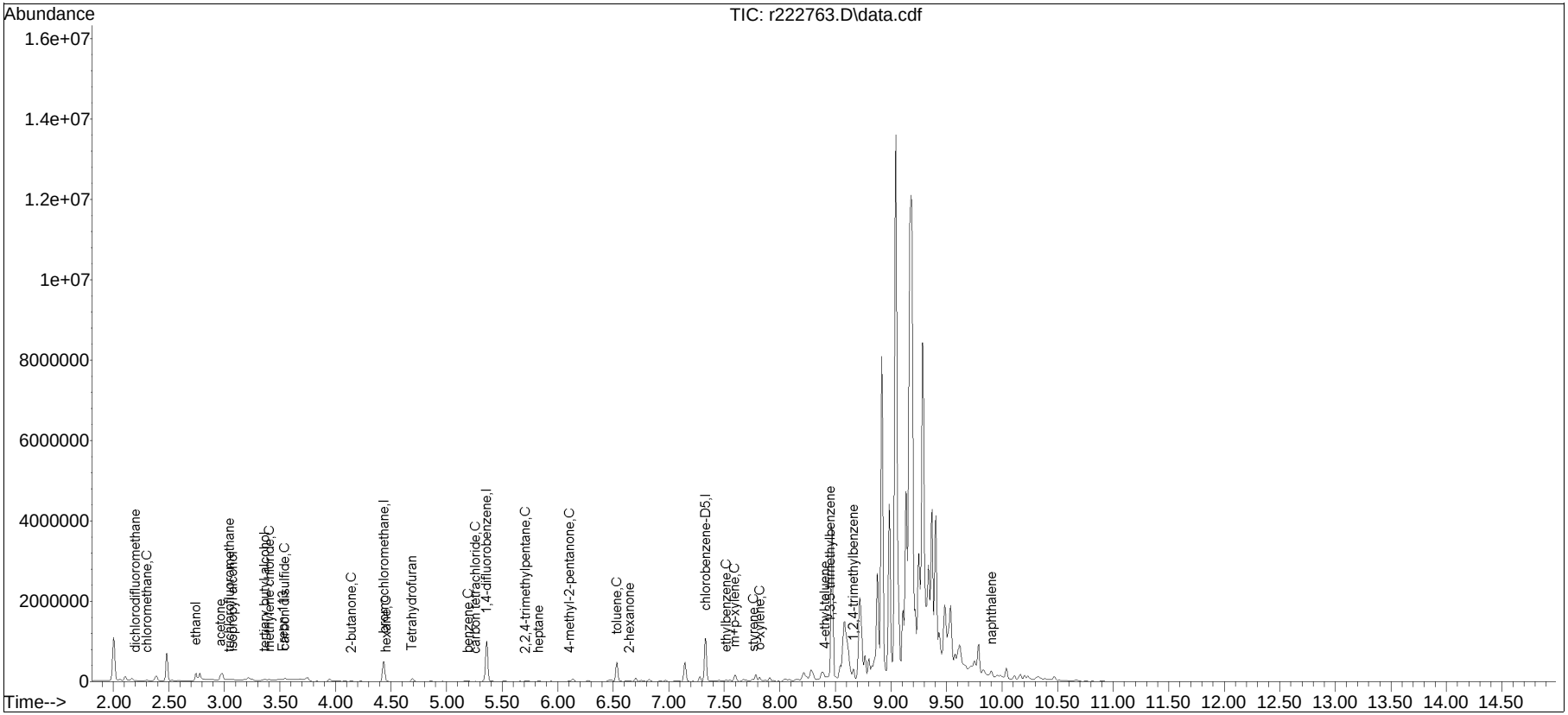
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

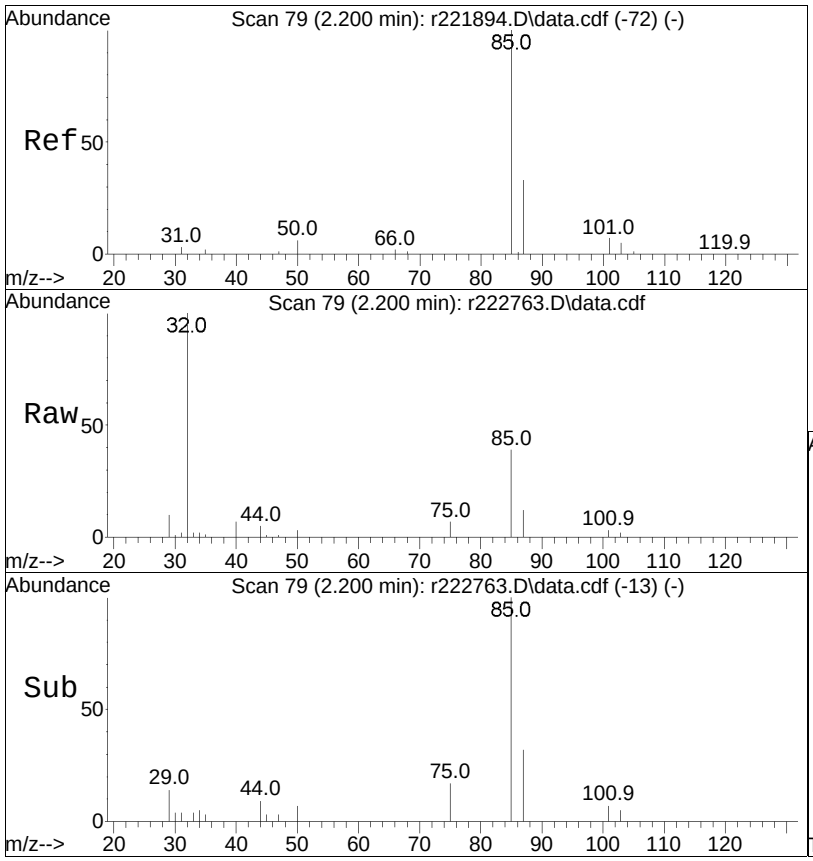
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : TO15-NY+Naphthalene - .b22\2024\03\0301T\r222756.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222763.D
Acq On : 1 Mar 2024 6:51 PM
Operator : AIRLAB22:BJB
Sample : L2409206-05,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:34 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

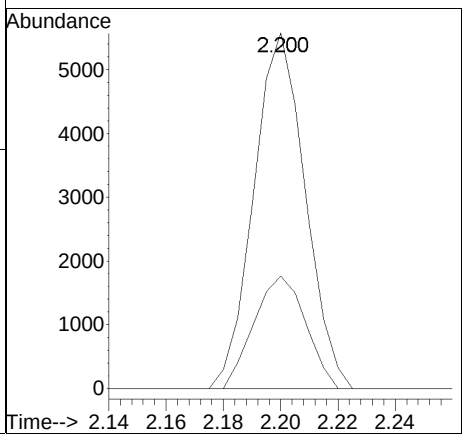


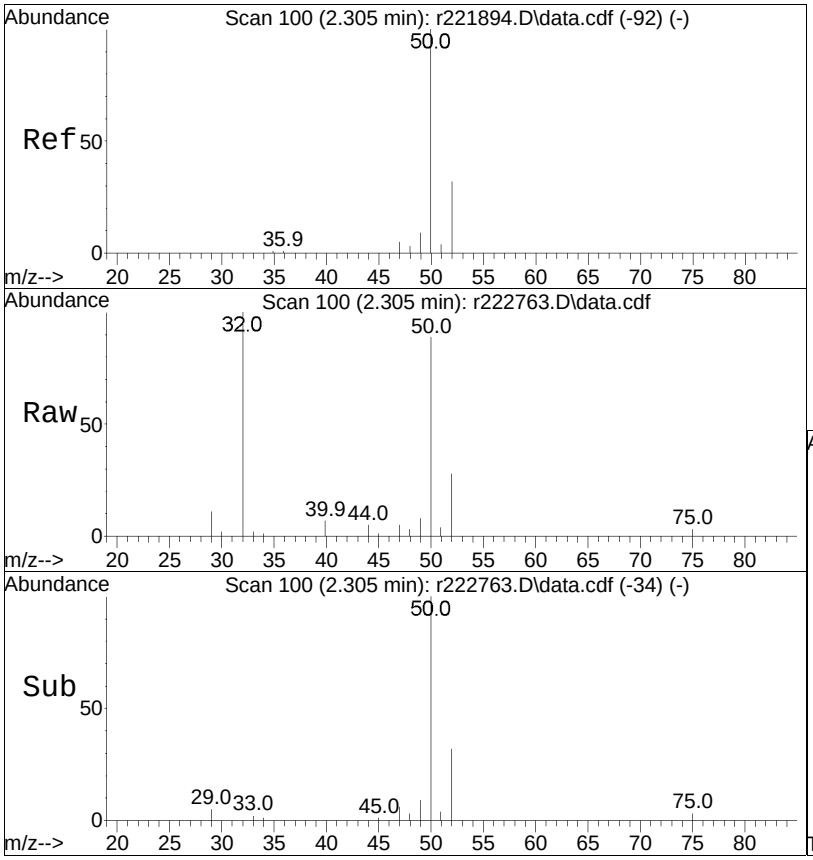


#5
dichlorodifluoromethane
Concen: 0.39 ppbV
RT: 2.200 min Scan# 79
Delta R.T. 0.000 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 85 Resp: 6942

Ion	Ratio	Lower	Upper
85	100		
87	31.6	26.3	39.5

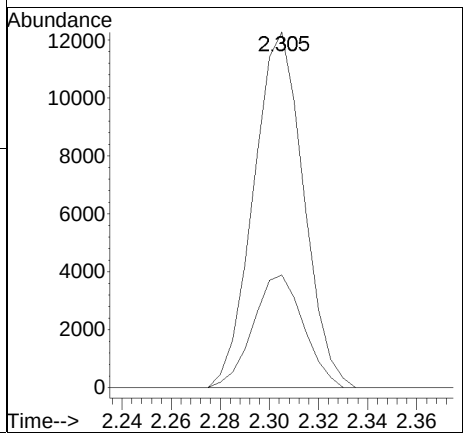


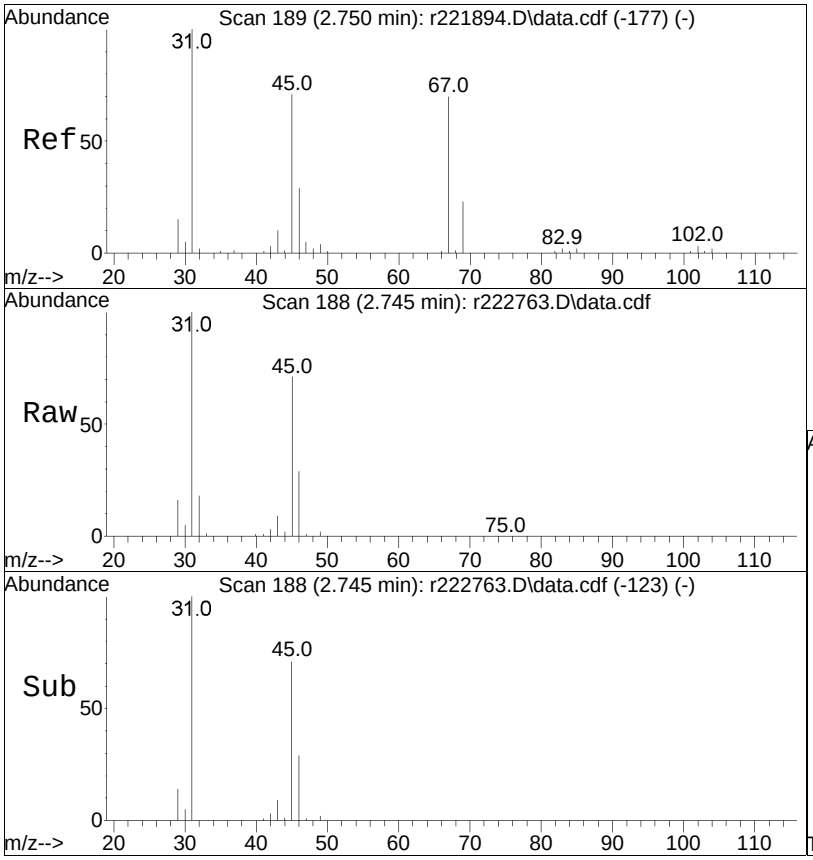


#6
chloromethane
Concen: 1.82 ppbV
RT: 2.305 min Scan# 100
Delta R.T. 0.000 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 50 Resp: 17357

Ion	Ratio	Lower	Upper
50	100		
52	31.6	25.5	38.3

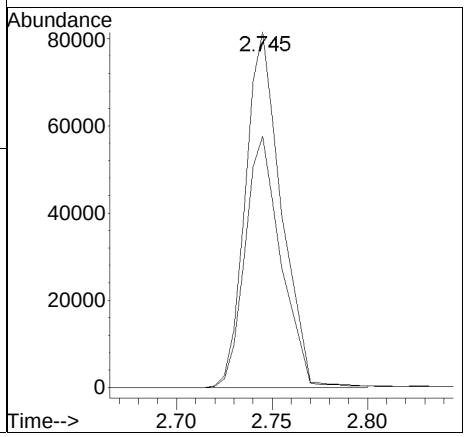


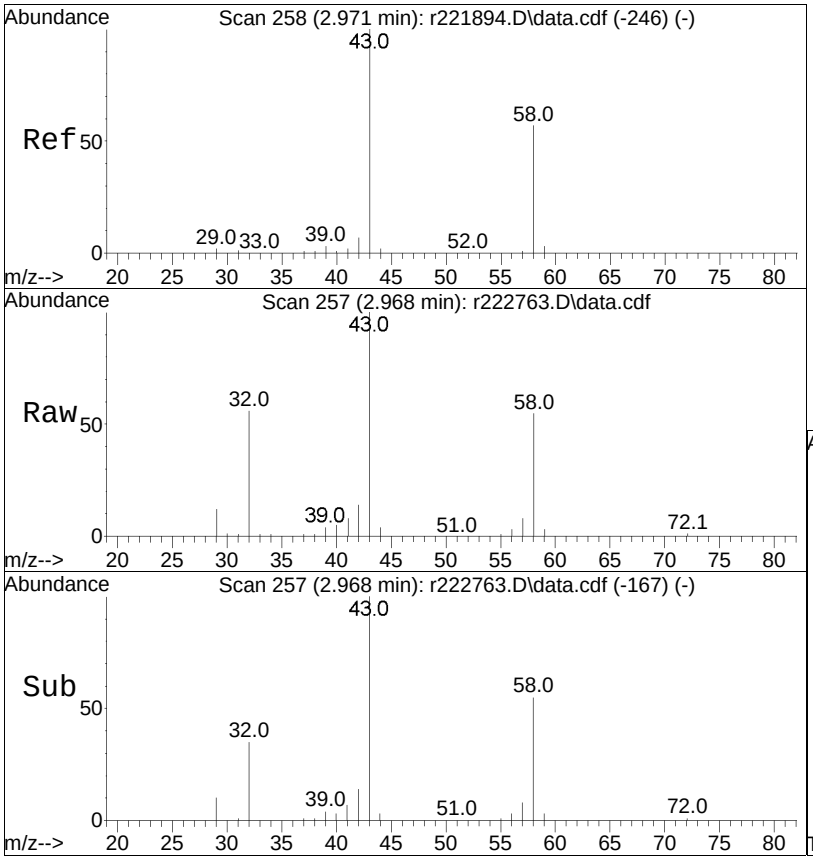


#15
ethanol
Concen: 24.34 ppbV
RT: 2.745 min Scan# 188
Delta R.T. -0.005 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 31 Resp: 85412

Ion	Ratio	Lower	Upper
31	100		
45	70.7	56.6	84.8

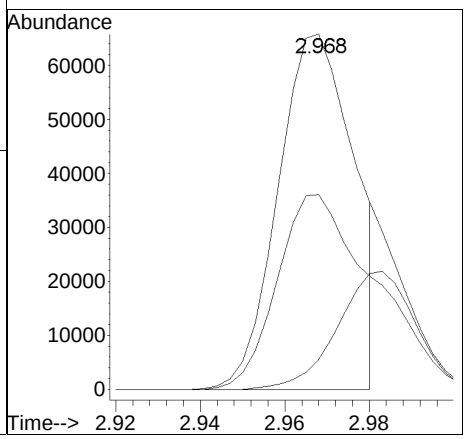


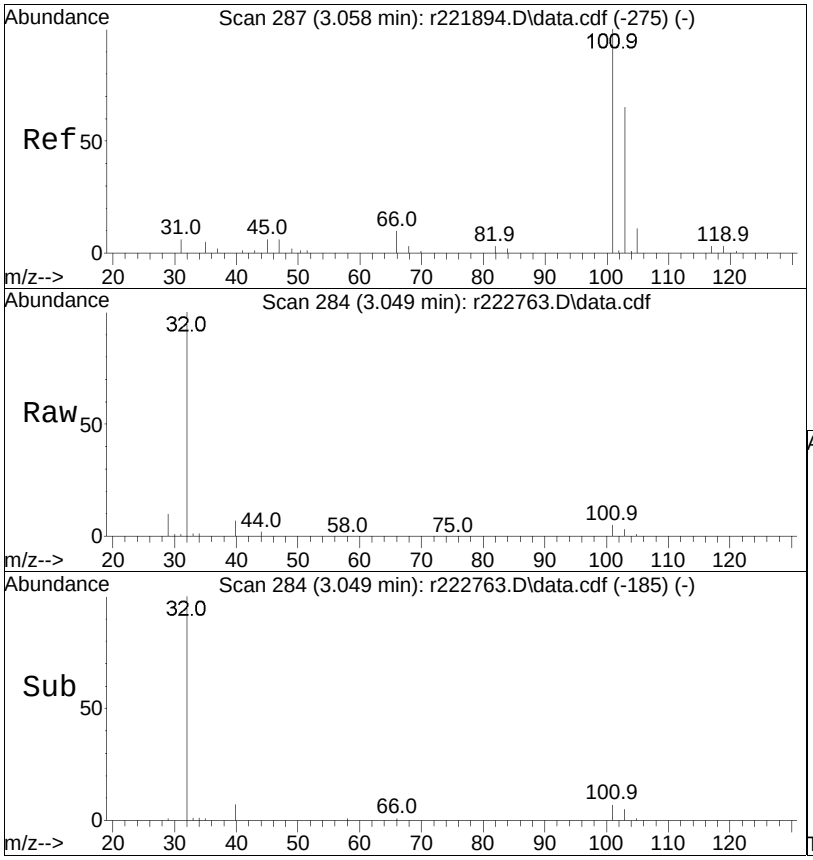


#19
acetone
Concen: 11.71 ppbV m
RT: 2.968 min Scan# 257
Delta R.T. -0.003 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 43 Resp: 82330

Ion	Ratio	Lower	Upper
43	100		
58	54.8	45.5	68.3
57	8.5	1.0	1.6#

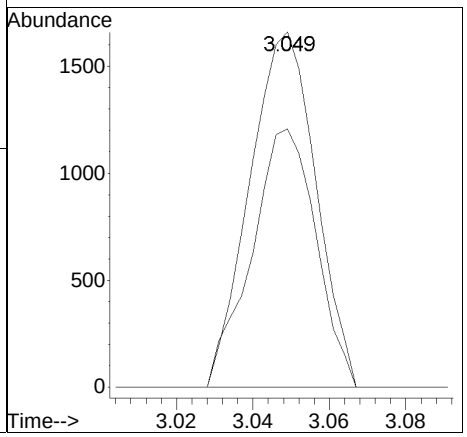


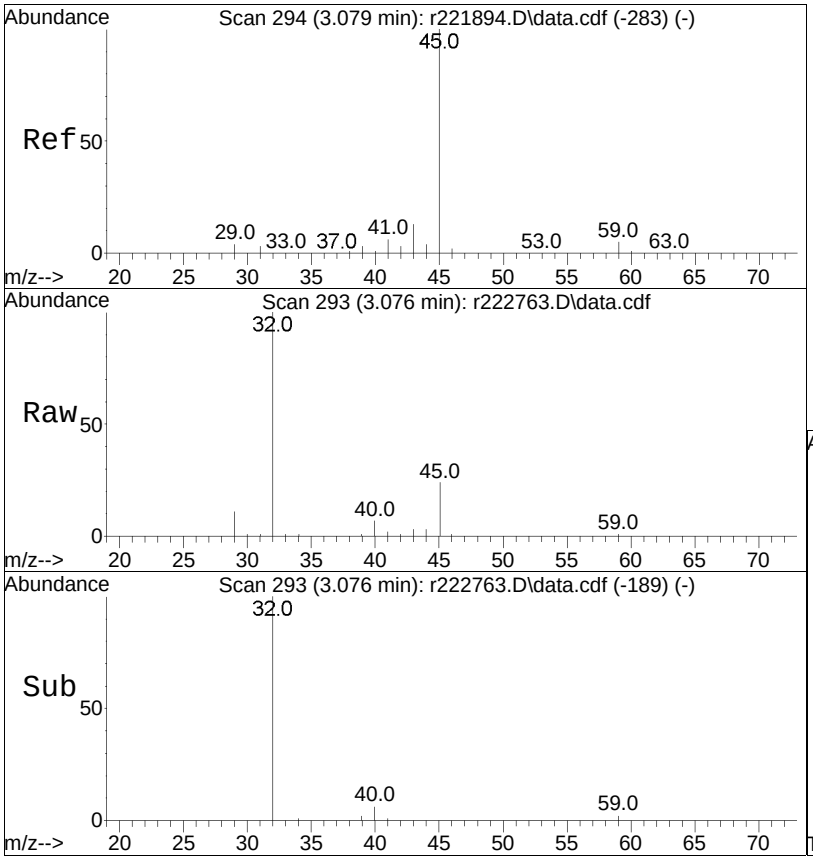


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 3.049 min Scan# 284
Delta R.T. -0.009 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion:101 Resp: 1995

Ion	Ratio	Lower	Upper
101	100		
103	72.7	52.2	78.4

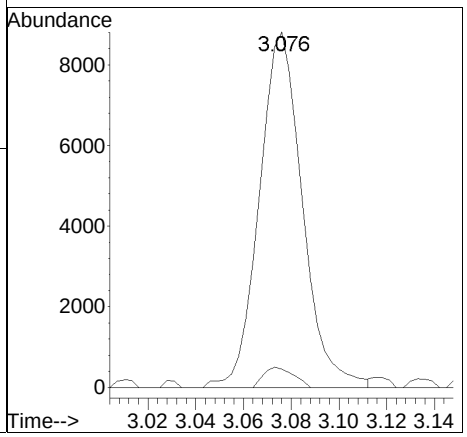


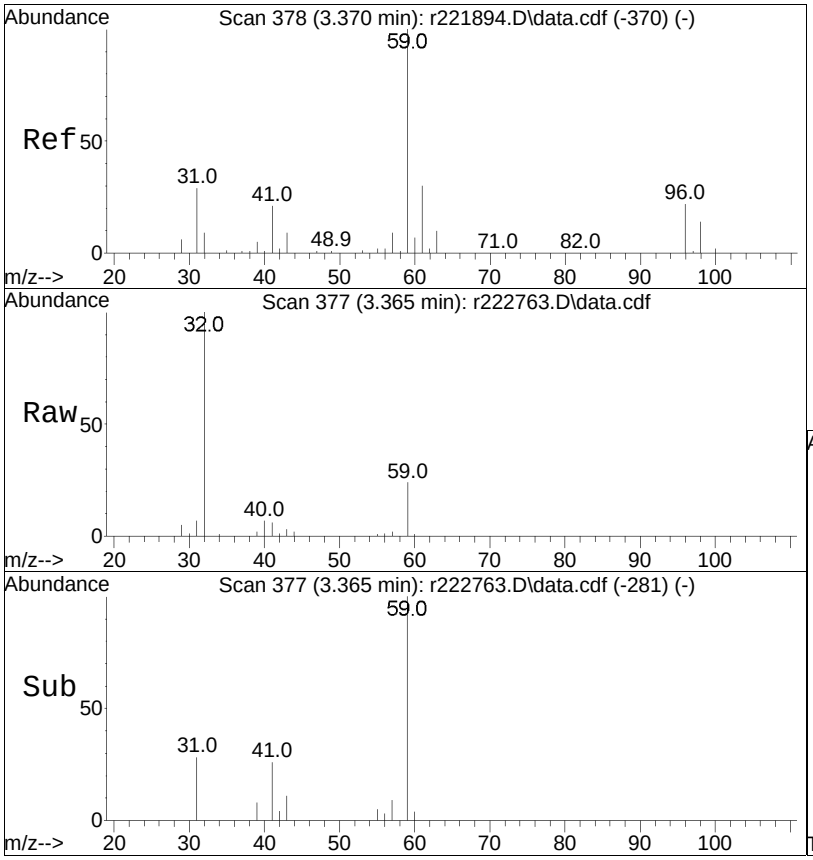


#22
isopropyl alcohol
Concen: 0.95 ppbV
RT: 3.076 min Scan# 293
Delta R.T. -0.003 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 45 Resp: 11060

Ion	Ratio	Lower	Upper
45	100		
59	5.2	4.0	6.0

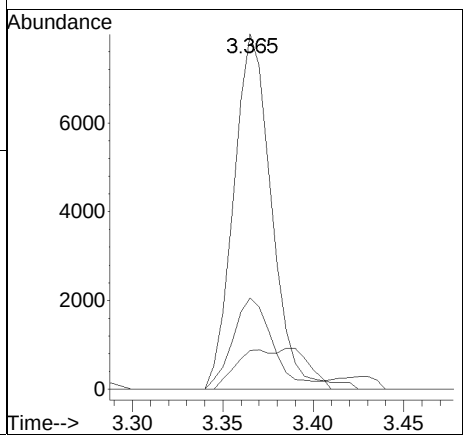


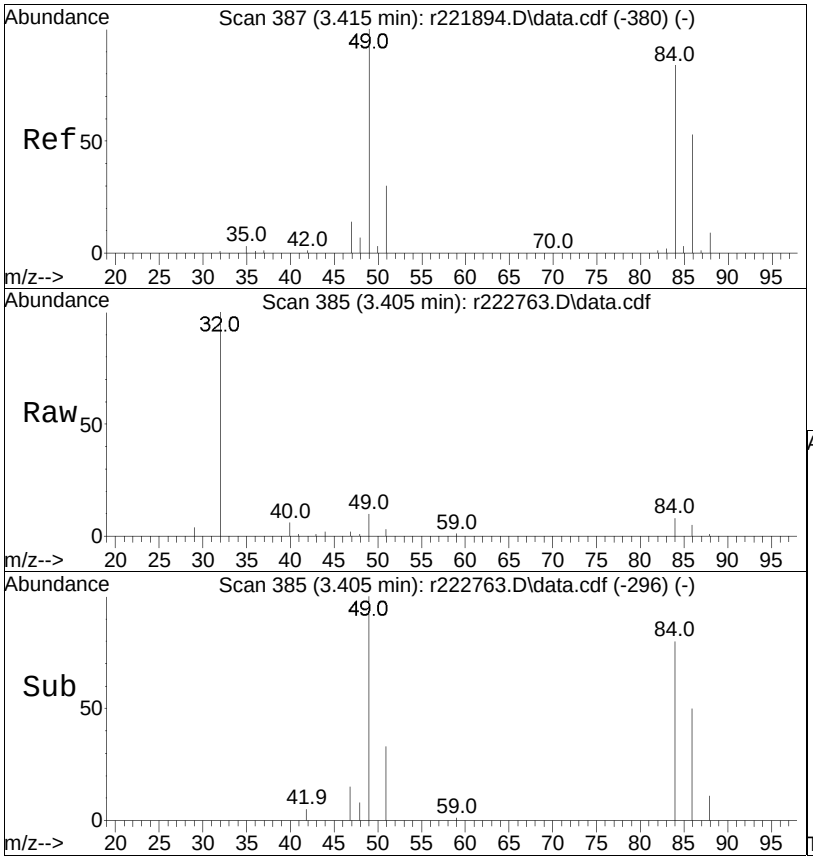


#27
tertiary butyl alcohol
Concen: 0.45 ppbV
RT: 3.365 min Scan# 377
Delta R.T. -0.005 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 59 Resp: 11693

Ion	Ratio	Lower	Upper
59	100		
41	25.8	16.9	25.3#
43	10.9	7.5	11.3

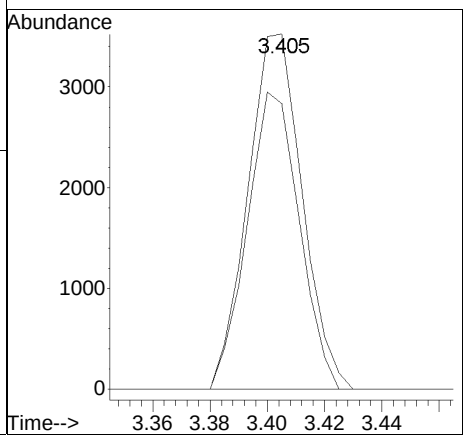


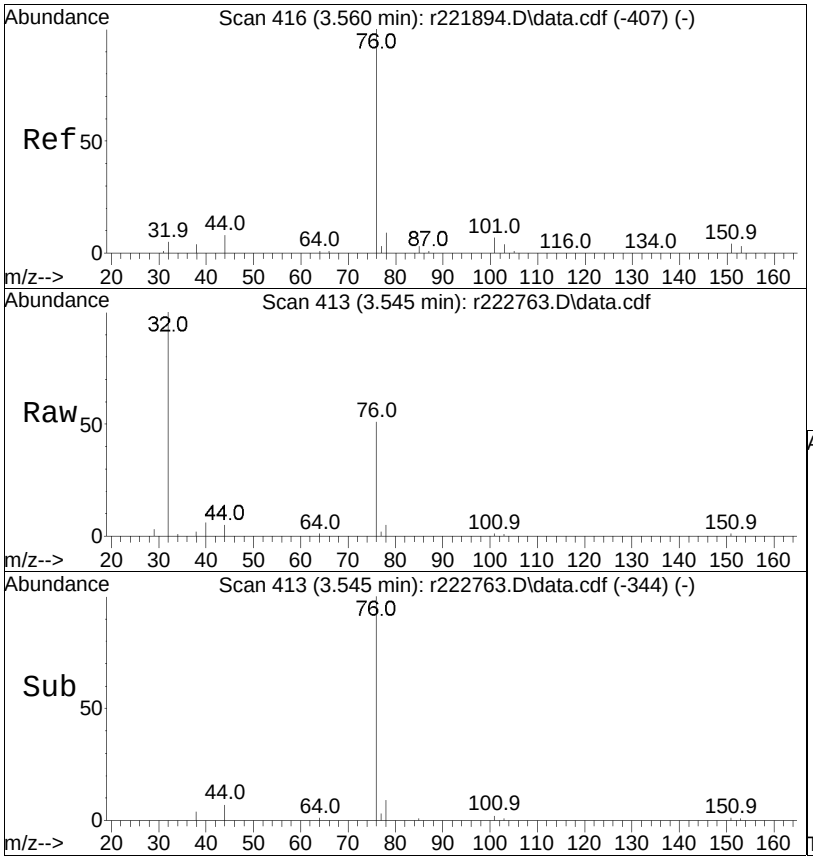


#28
methylene chloride
Concen: 0.27 ppbV
RT: 3.405 min Scan# 385
Delta R.T. -0.010 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 49 Resp: 4655

Ion	Ratio	Lower	Upper
49	100		
84	80.4	67.2	100.8

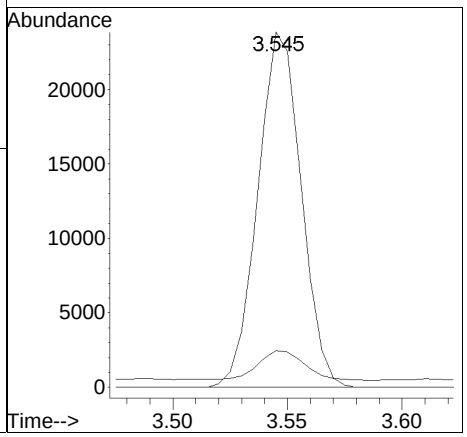


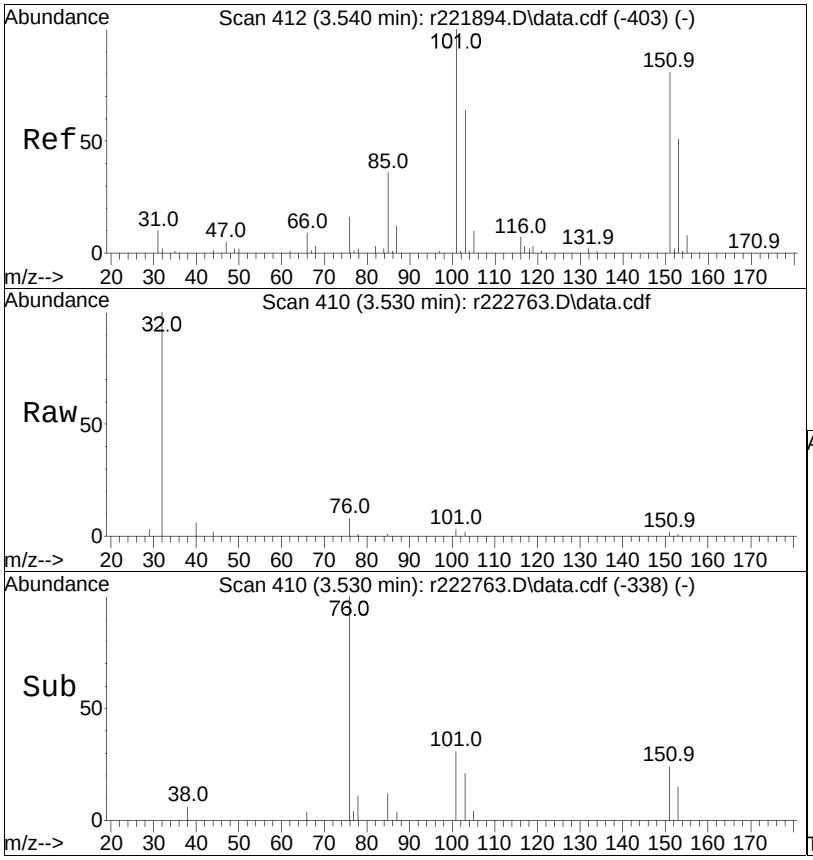


#30
carbon disulfide
Concen: 0.66 ppbV
RT: 3.545 min Scan# 413
Delta R.T. -0.015 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 76 Resp: 31468

Ion	Ratio	Lower	Upper
76	100		
44	10.4	6.8	10.2#

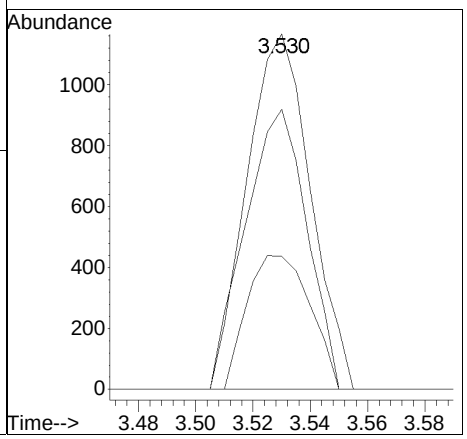


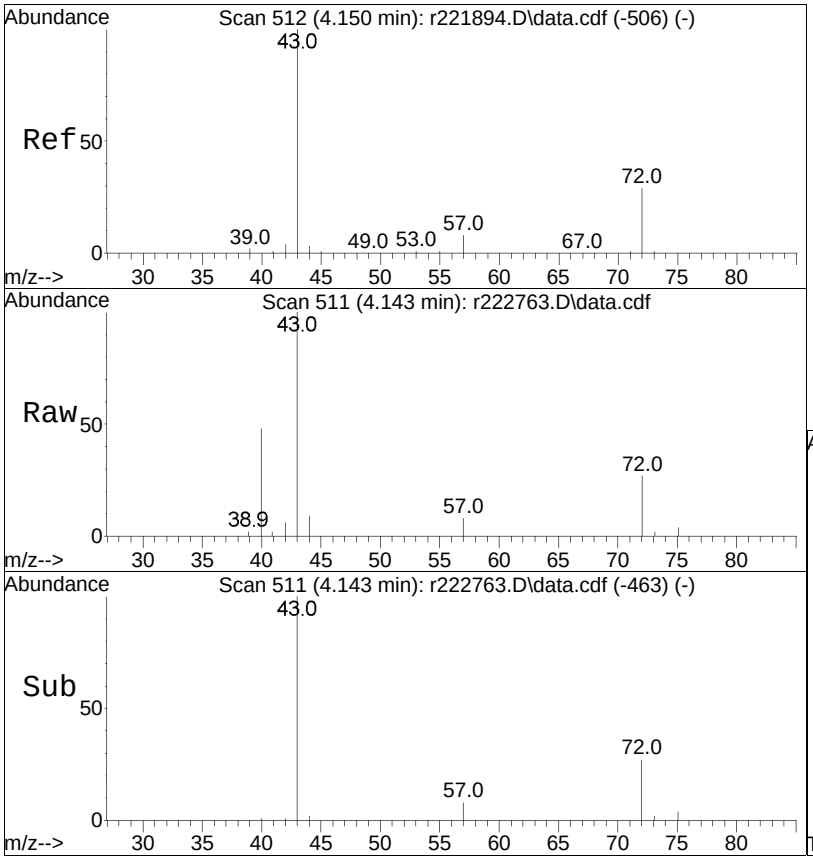


#31
Freon 113
Concen: 0.07 ppbV
RT: 3.530 min Scan# 410
Delta R.T. -0.010 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion:101 Resp: 1803

Ion	Ratio	Lower	Upper
101	100		
85	37.5	28.6	43.0
151	78.8	64.6	97.0

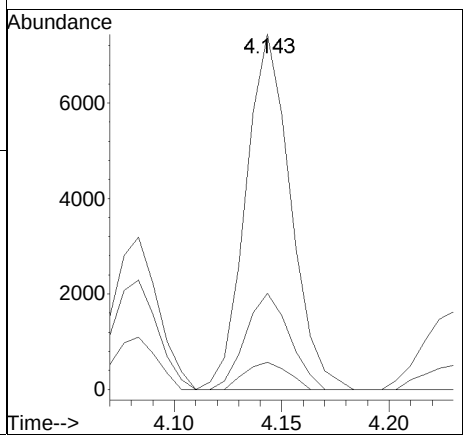


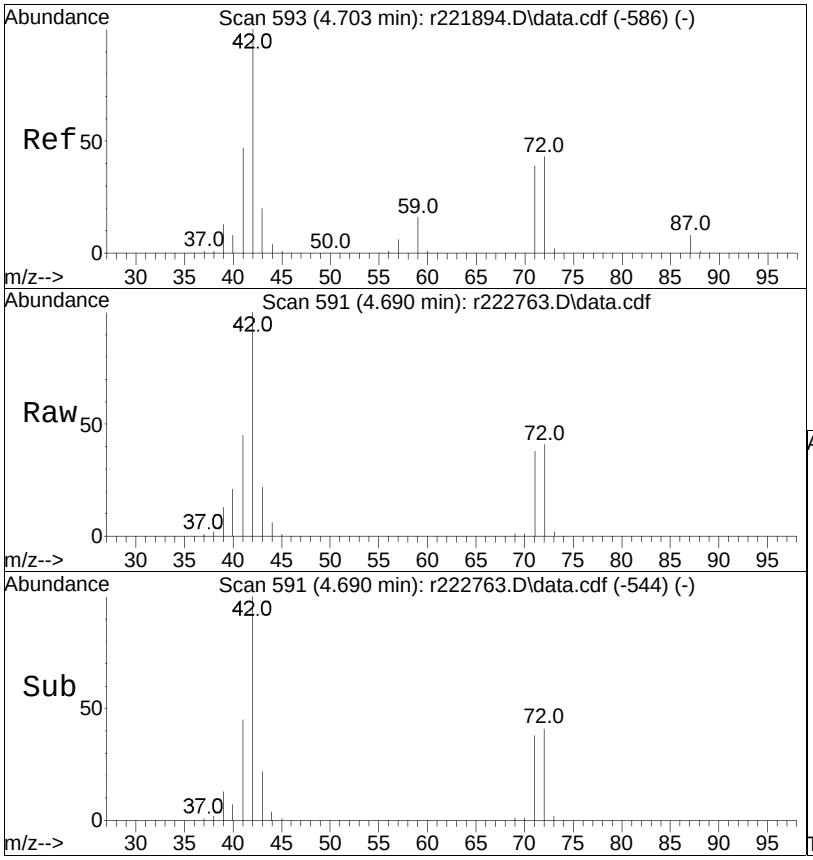


#36
2-butanone
Concen: 0.31 ppbV
RT: 4.143 min Scan# 511
Delta R.T. -0.007 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 43 Resp: 10824

Ion	Ratio	Lower	Upper
43	100		
72	27.0	23.0	34.6
57	7.7	6.3	9.5

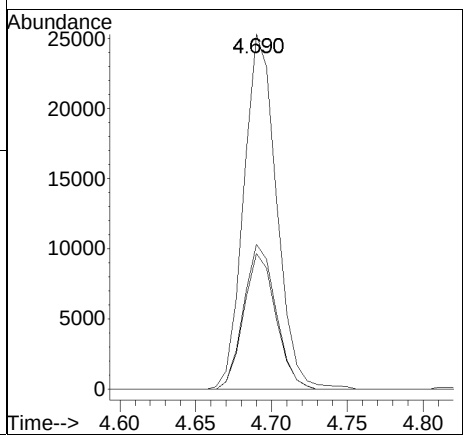


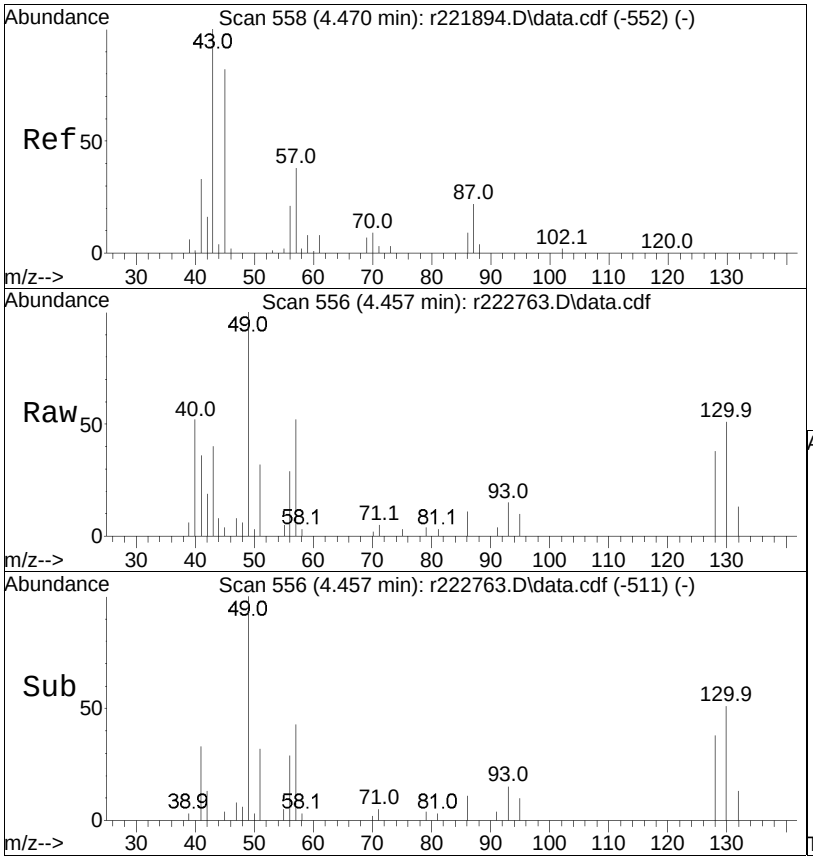


#40
Tetrahydrofuran
Concen: 1.69 ppbV
RT: 4.690 min Scan# 591
Delta R.T. -0.013 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 42 Resp: 38099

Ion	Ratio	Lower	Upper
42	100		
71	38.3	31.4	47.2
72	40.9	34.3	51.5

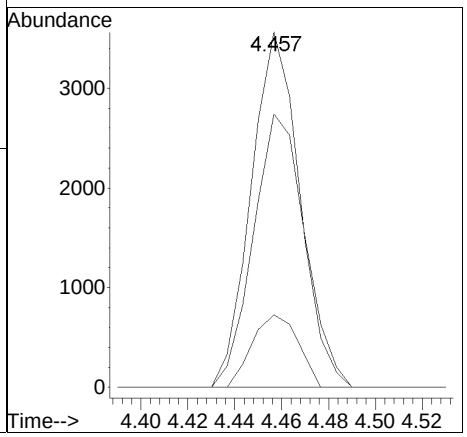


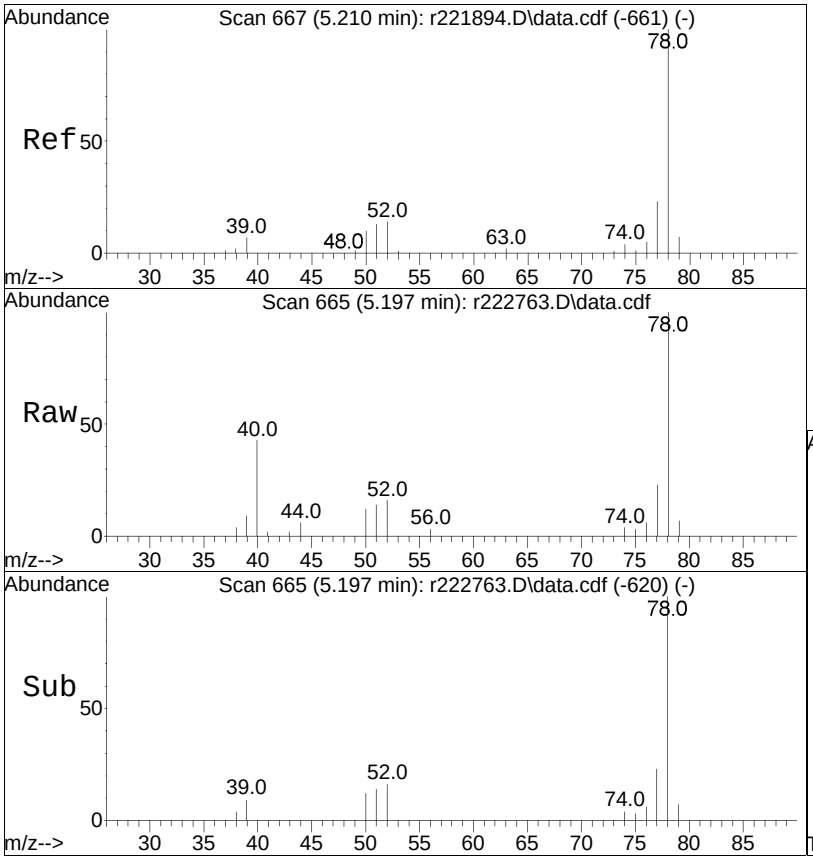


#44
hexane
Concen: 0.21 ppbV
RT: 4.457 min Scan# 556
Delta R.T. -0.013 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 57 Resp: 5135

Ion	Ratio	Lower	Upper
57	100		
43	76.9	210.8	316.2#
86	20.4	17.9	26.9

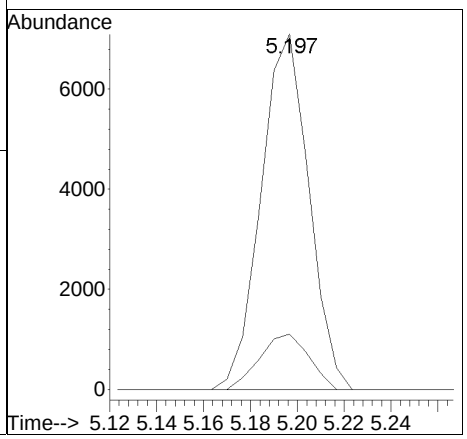


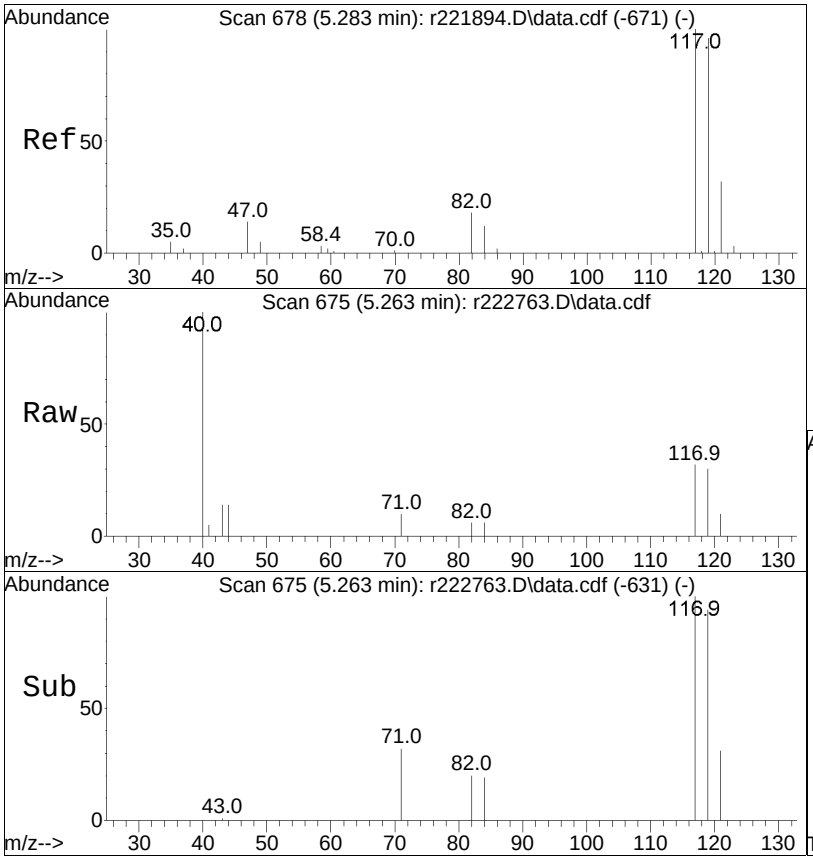


#50
benzene
Concen: 0.20 ppbV
RT: 5.197 min Scan# 665
Delta R.T. -0.013 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 78 Resp: 10089

Ion	Ratio	Lower	Upper
78	100		
52	15.6	11.3	16.9

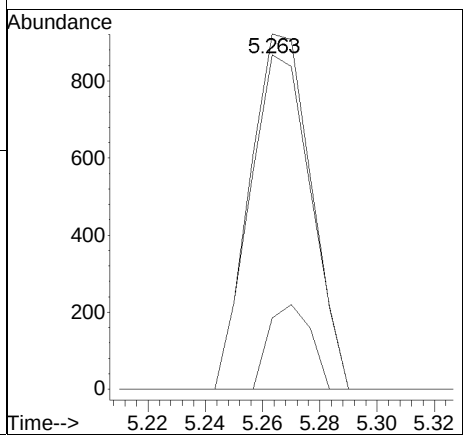


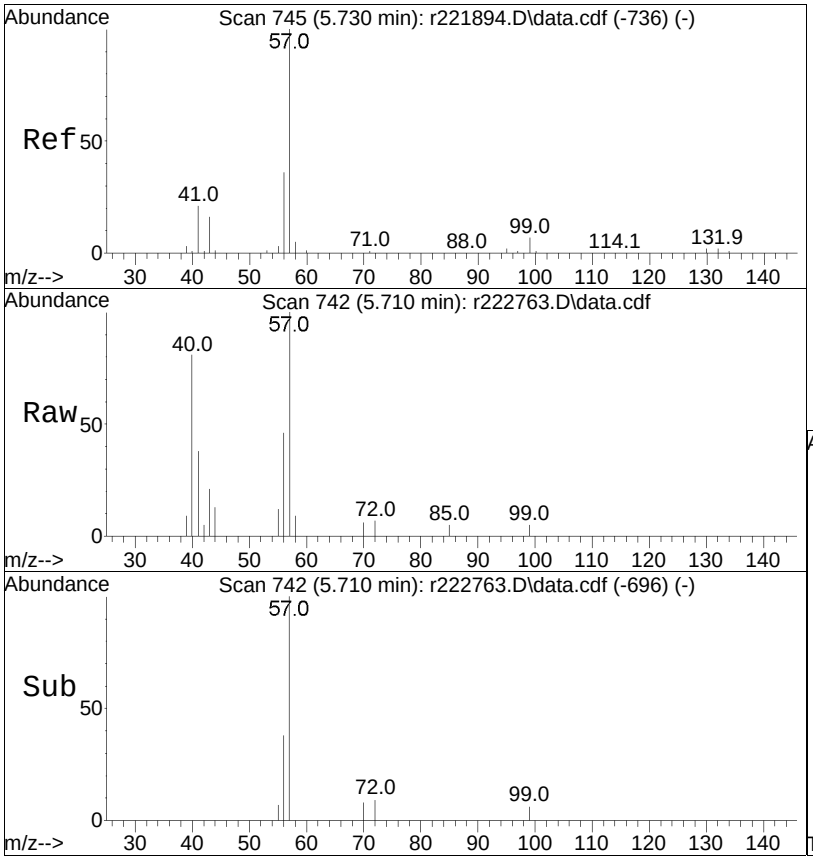


#52
carbon tetrachloride
Concen: 0.08 ppbV
RT: 5.263 min Scan# 675
Delta R.T. -0.020 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion:117 Resp: 1371

Ion	Ratio	Lower	Upper
117	100		
119	94.1	76.5	114.7
82	20.1	14.7	22.1

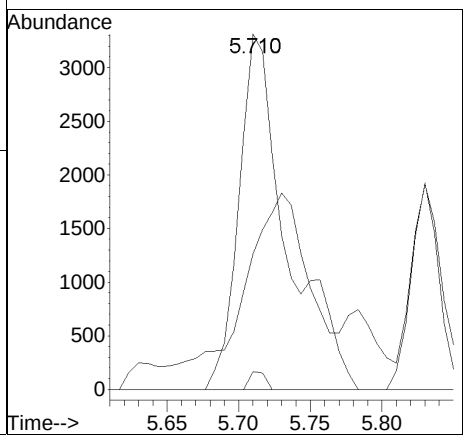


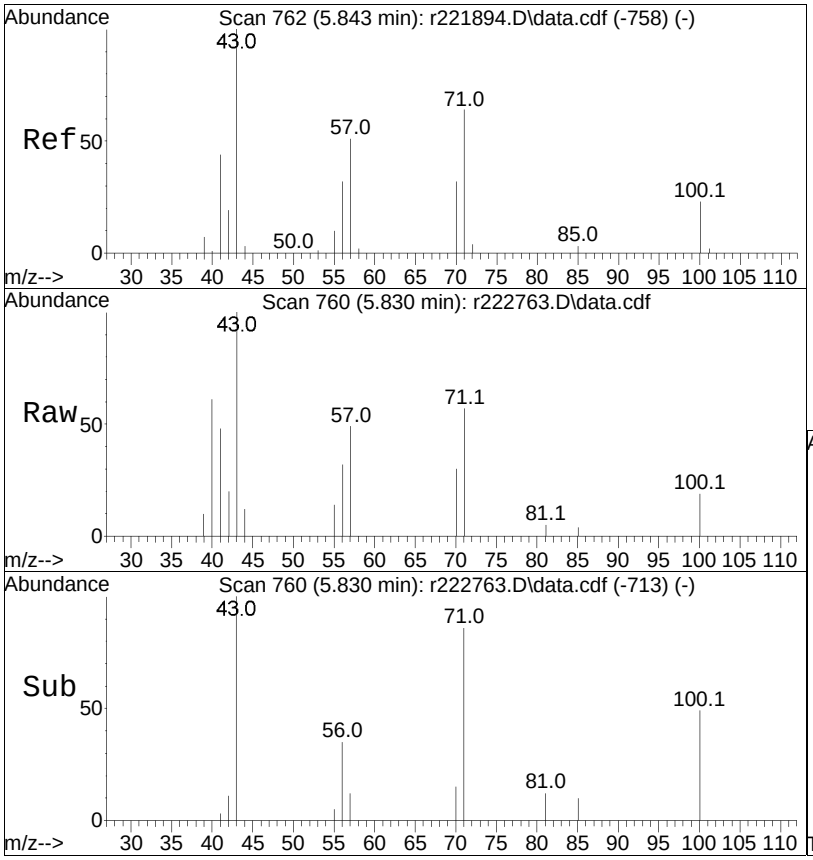


#60
2,2,4-trimethylpentane
Concen: 0.10 ppbV
RT: 5.710 min Scan# 742
Delta R.T. -0.020 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 57 Resp: 7762

Ion	Ratio	Lower	Upper
57	100		
99	5.0	5.7	8.5#
41	38.2	16.9	25.3#

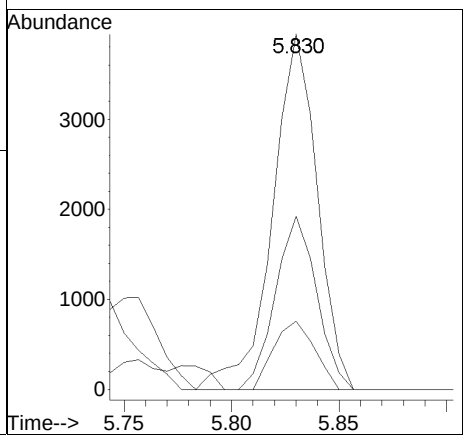


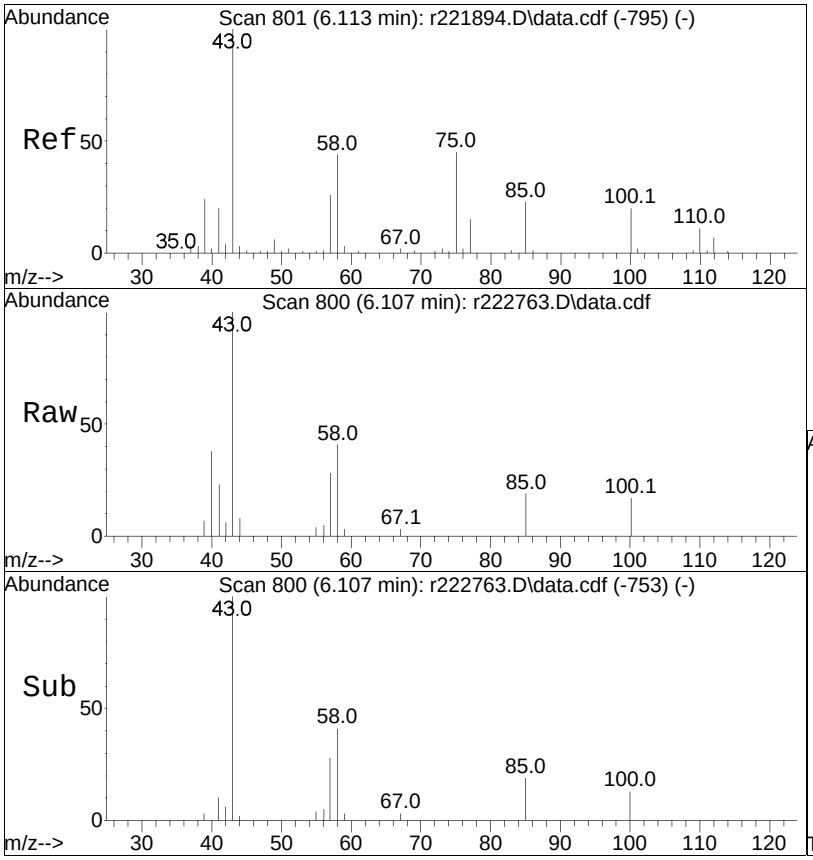


#62
heptane
Concen: 0.19 ppbV
RT: 5.830 min Scan# 760
Delta R.T. -0.013 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 43 Resp: 5726

Ion	Ratio	Lower	Upper
43	100		
57	48.8	40.4	60.6
100	19.2	19.0	28.6

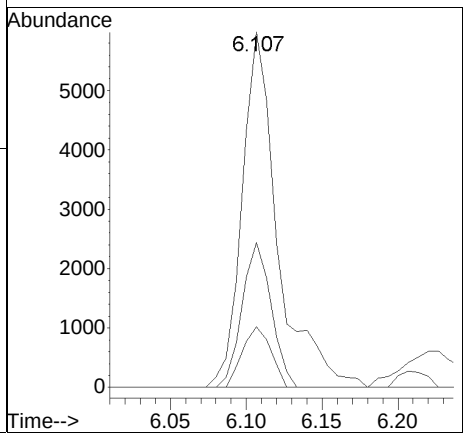


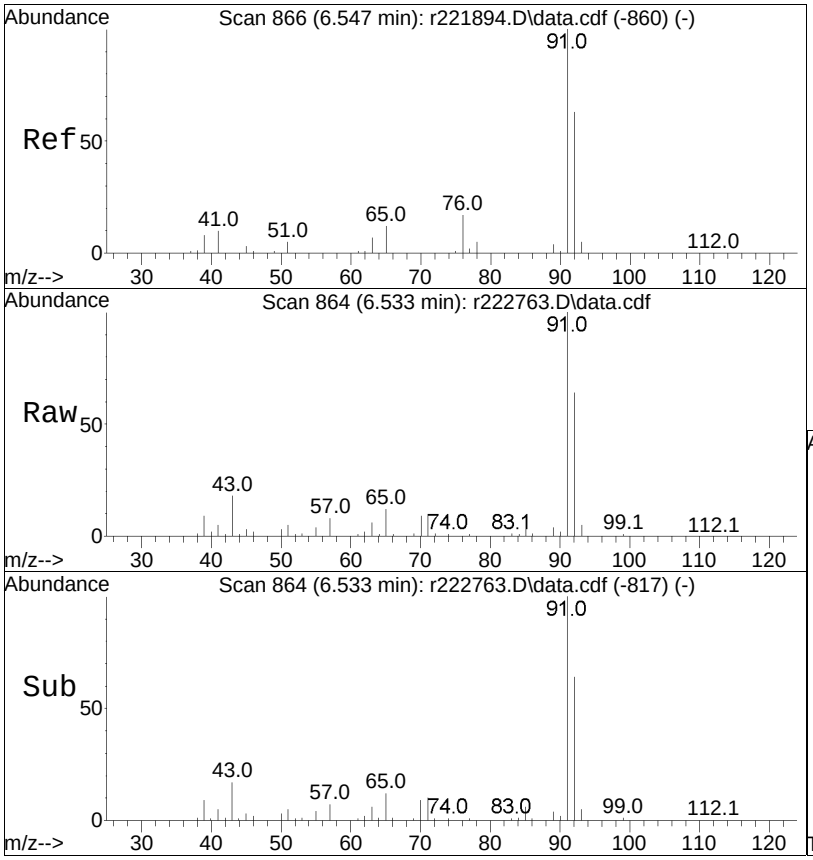


#64
4-methyl-2-pentanone
Concen: 0.29 ppbV
RT: 6.107 min Scan# 800
Delta R.T. -0.007 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 43 Resp: 9828

Ion	Ratio	Lower	Upper
43	100		
58	40.8	34.9	52.3
100	17.0	16.1	24.1

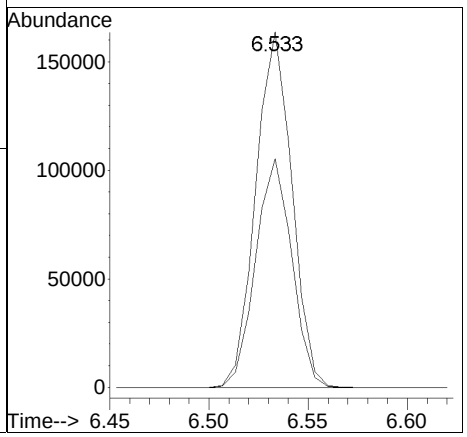


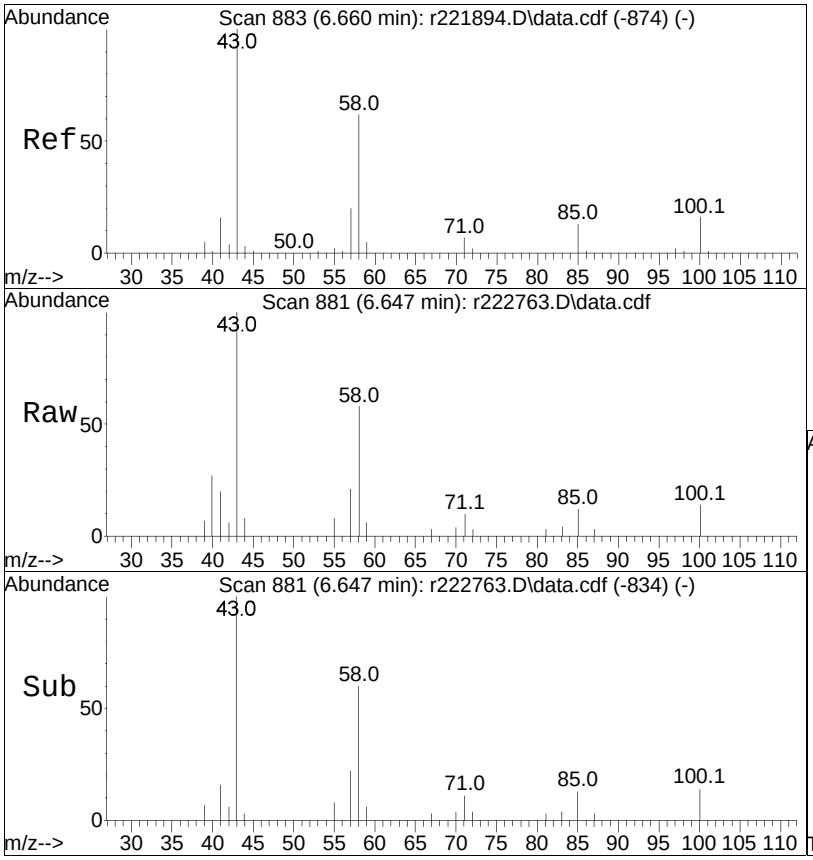


#68
toluene
Concen: 3.01 ppbV
RT: 6.533 min Scan# 864
Delta R.T. -0.013 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 91 Resp: 207483

Ion	Ratio	Lower	Upper
91	100		
92	64.4	50.7	76.1

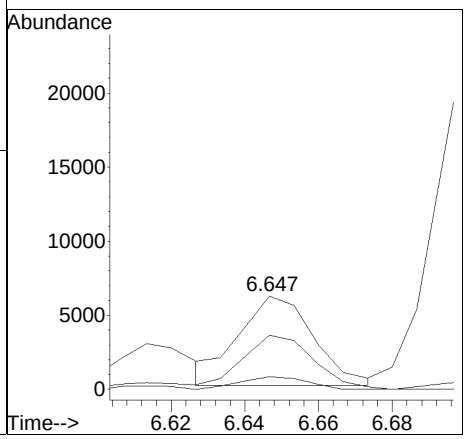


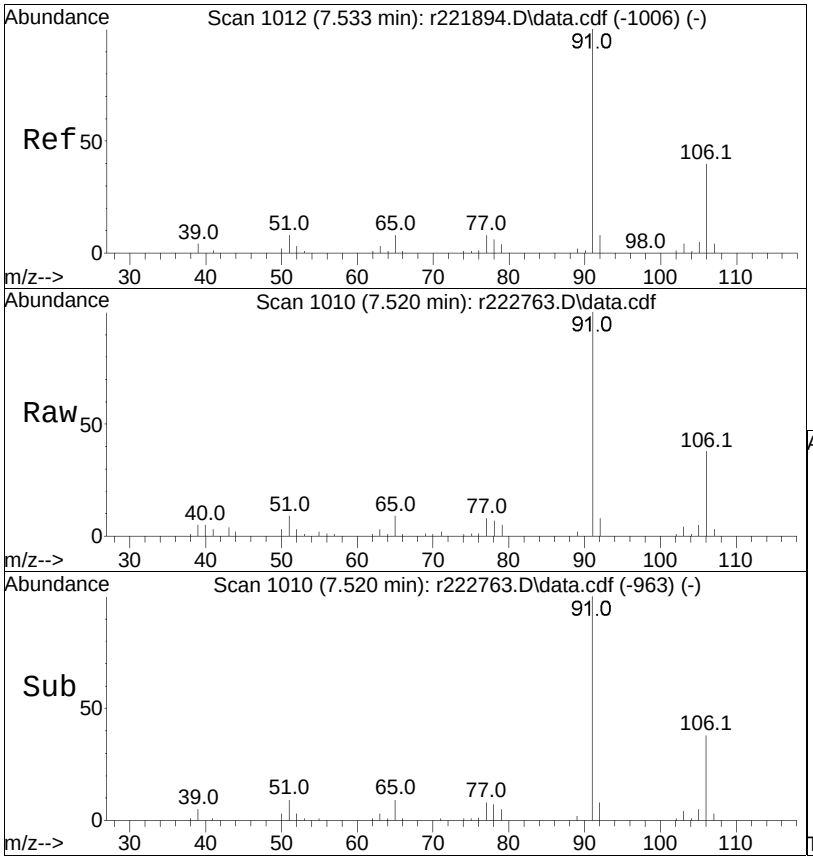


#72
2-hexanone
Concen: 0.21 ppbV
RT: 6.647 min Scan# 881
Delta R.T. -0.013 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 43 Resp: 8524

Ion	Ratio	Lower	Upper
43	100		
58	58.2	49.2	73.8
100	13.6	12.4	18.6

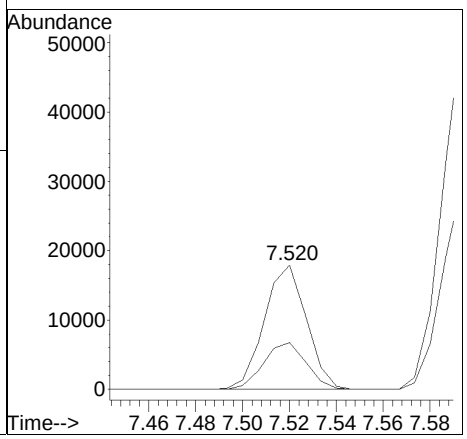


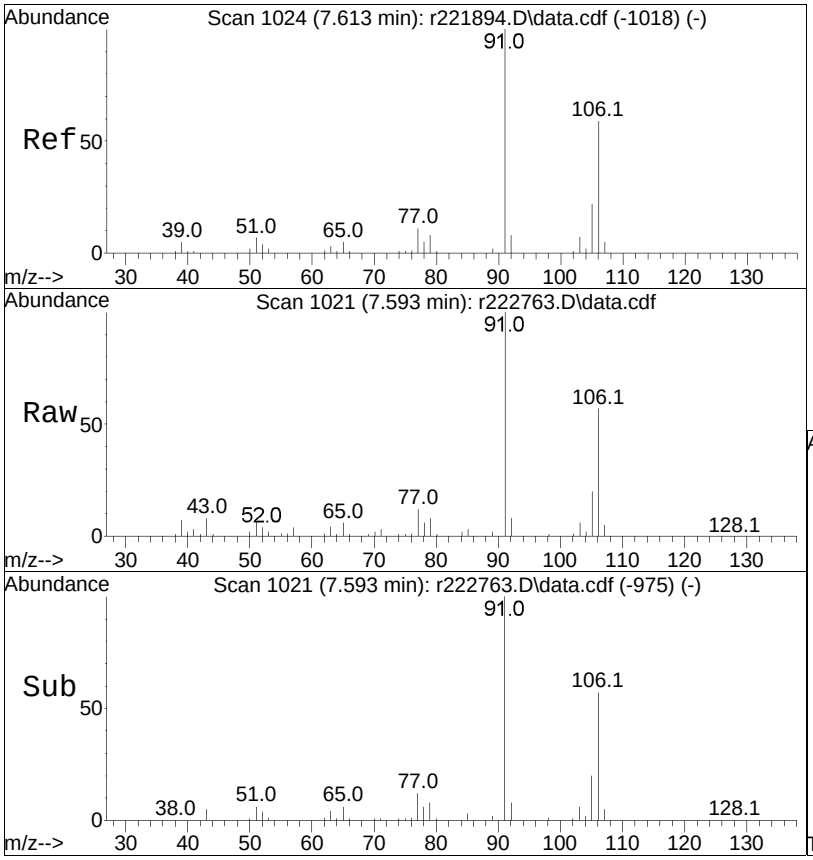


#81
ethylbenzene
Concen: 0.27 ppbV
RT: 7.520 min Scan# 1010
Delta R.T. -0.013 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 91 Resp: 22441

Ion	Ratio	Lower	Upper
91	100		
106	37.7	31.7	47.5

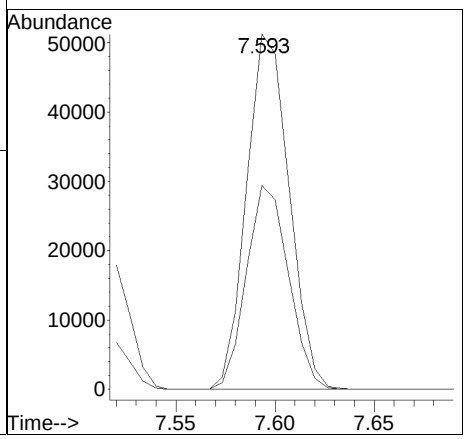


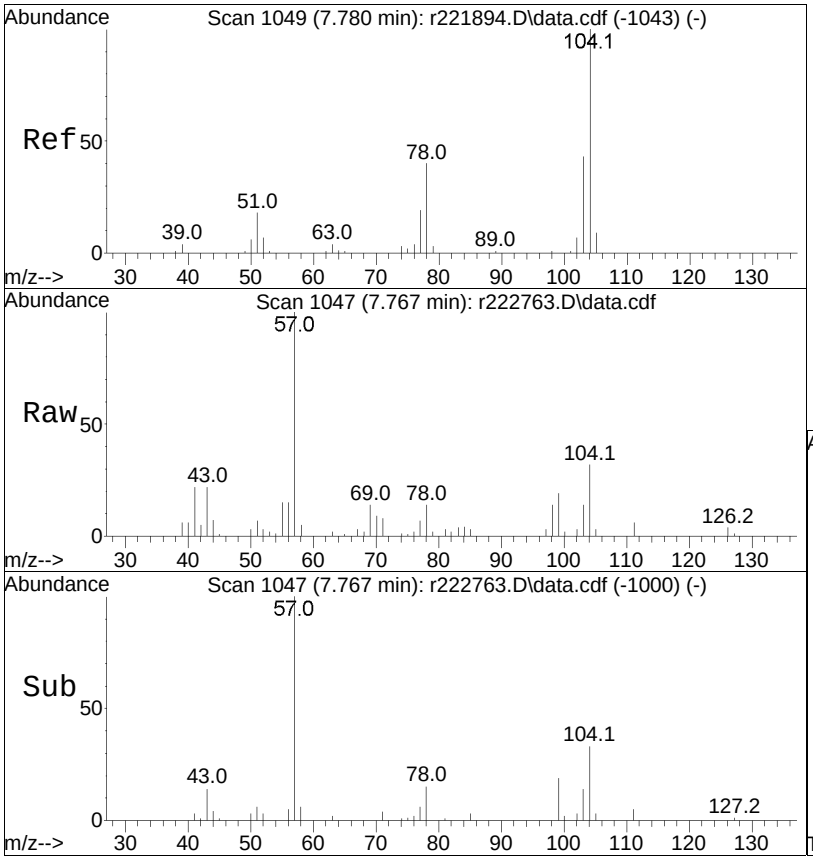


#83
m+p-xylene
Concen: 1.18 ppbV
RT: 7.593 min Scan# 1021
Delta R.T. -0.020 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 91 Resp: 76637

Ion	Ratio	Lower	Upper
91	100		
106	57.4	47.4	71.2

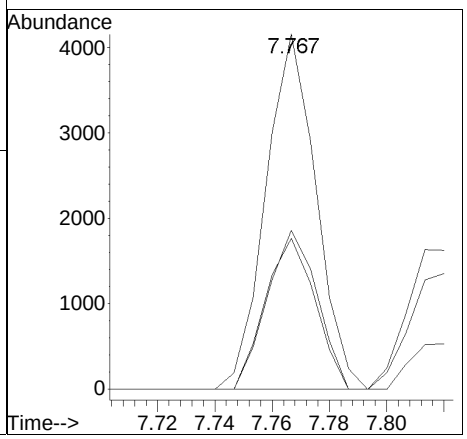


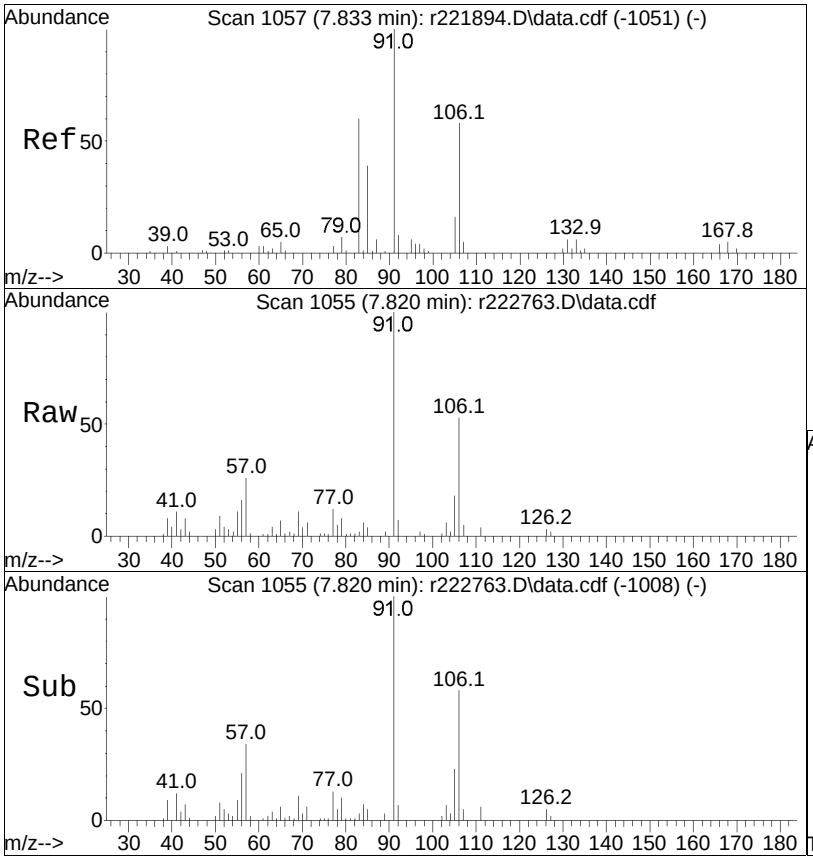


#85
styrene
Concen: 0.09 ppbV
RT: 7.767 min Scan# 1047
Delta R.T. -0.013 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion:104 Resp: 5068

Ion	Ratio	Lower	Upper
104	100		
103	42.5	34.3	51.5
78	44.8	32.3	48.5

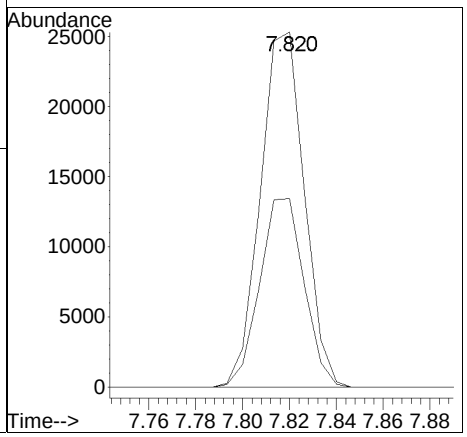


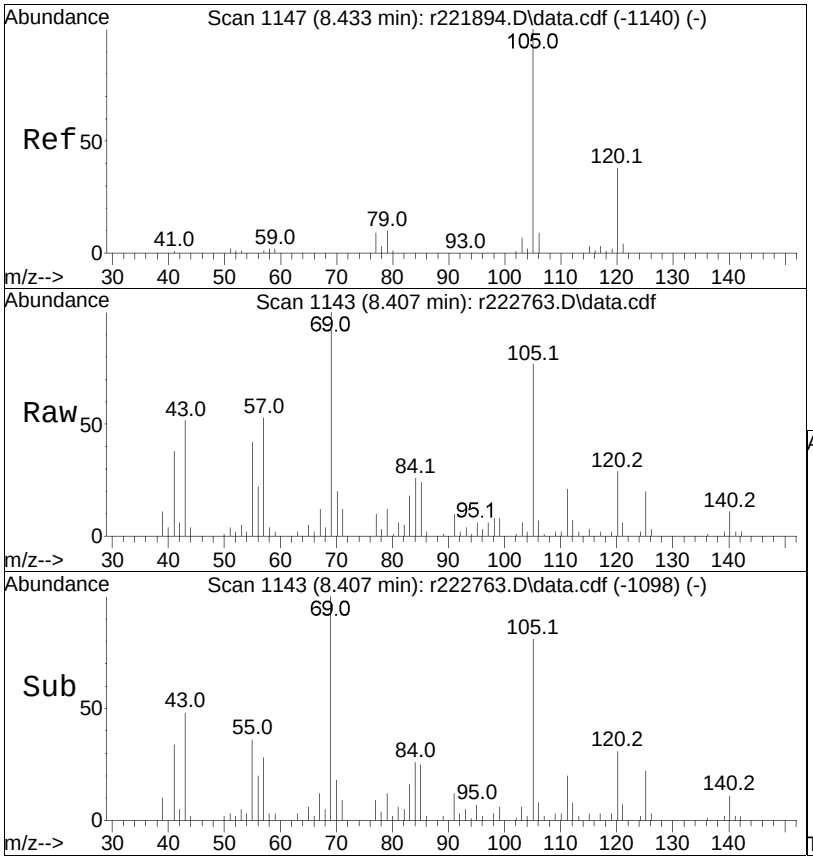


#87
o-xylene
Concen: 0.52 ppbV
RT: 7.820 min Scan# 1055
Delta R.T. -0.013 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 91 Resp: 32996

Ion	Ratio	Lower	Upper
91	100		
106	53.1	46.2	69.4

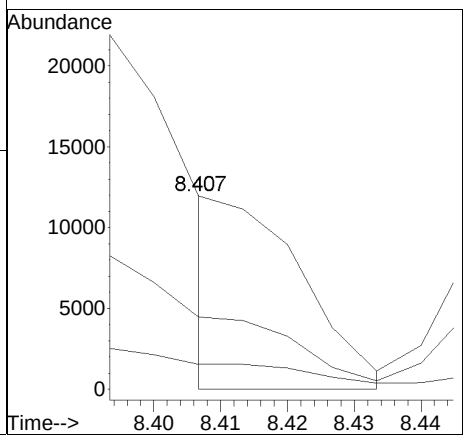


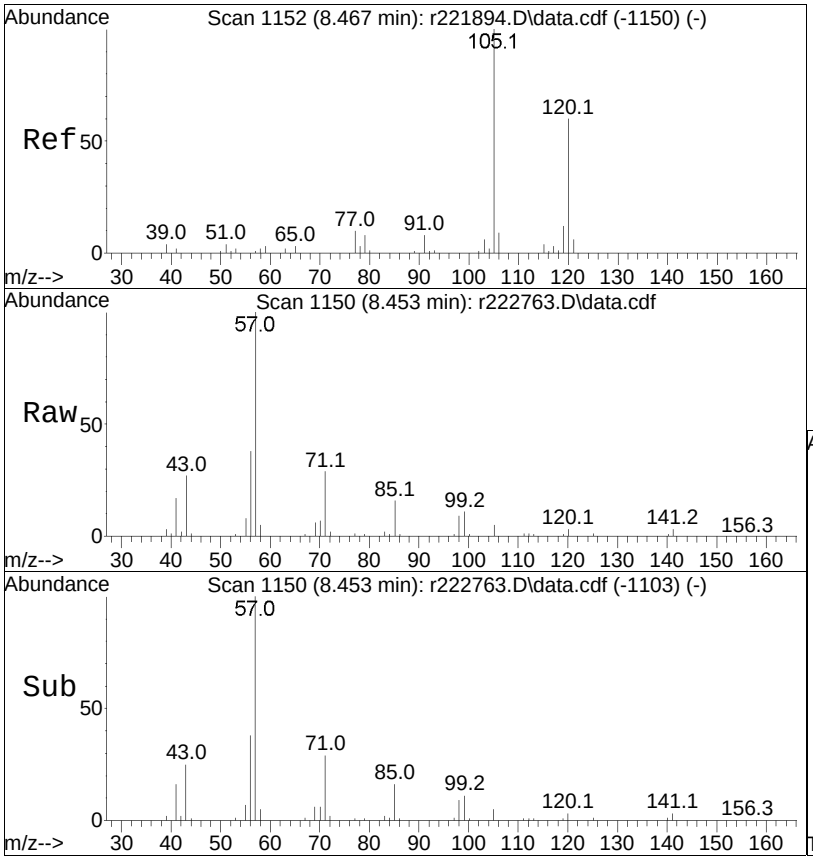


#96
4-ethyl toluene
Concen: 0.11 ppbV m
RT: 8.407 min Scan# 1143
Delta R.T. -0.027 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion:105 Resp: 10033

Ion	Ratio	Lower	Upper
105	100		
120	37.4	30.7	46.1
91	13.0	7.2	10.8#

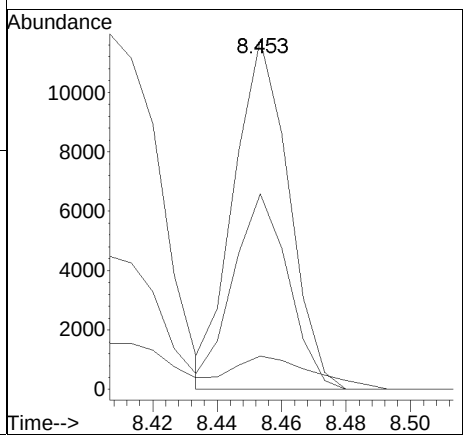


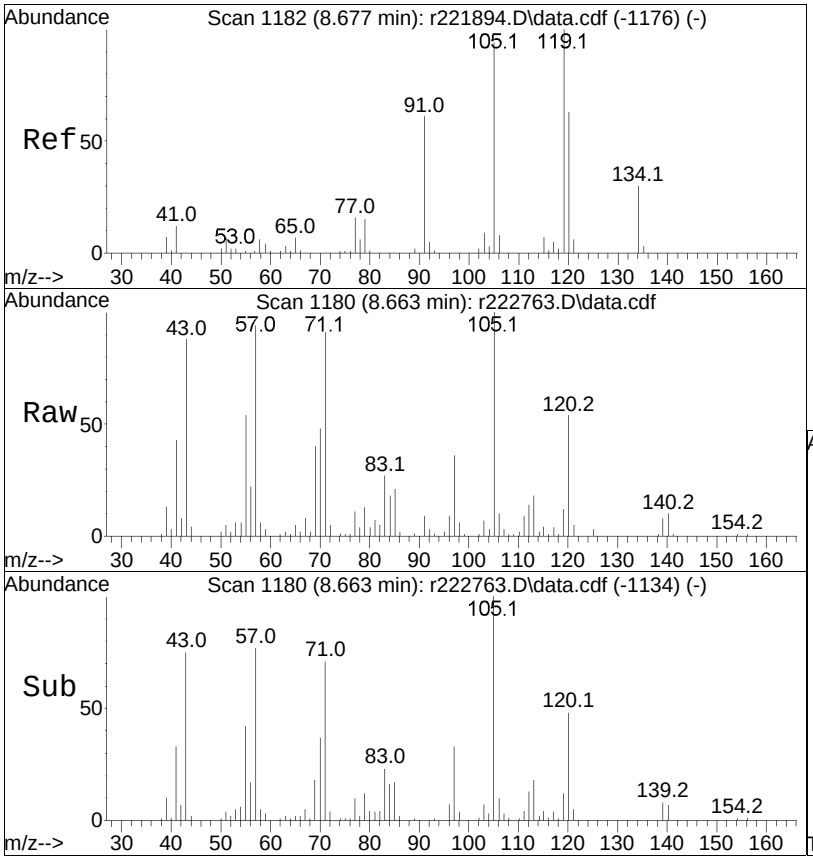


#97
1,3,5-trimethylbenzene
Concen: 0.18 ppbV
RT: 8.453 min Scan# 1150
Delta R.T. -0.013 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion:105 Resp: 13932

Ion	Ratio	Lower	Upper
105	100		
120	55.8	47.8	71.8
91	9.5	6.6	10.0

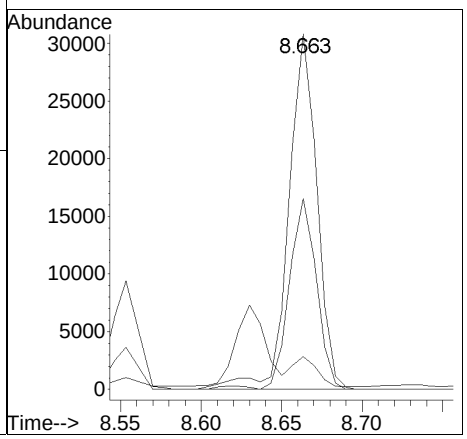




#99
1,2,4-trimethylbenzene
Concen: 0.51 ppbV
RT: 8.663 min Scan# 1180
Delta R.T. -0.013 min
Lab File: r222763.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion:105 Resp: 37677

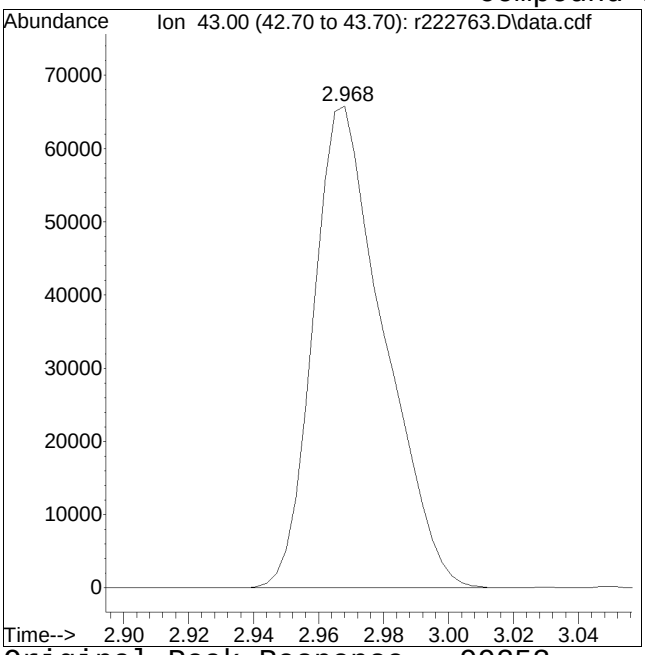
Ion	Ratio	Lower	Upper
105	100		
120	53.7	53.8	80.8#
91	9.2	52.2	78.2#



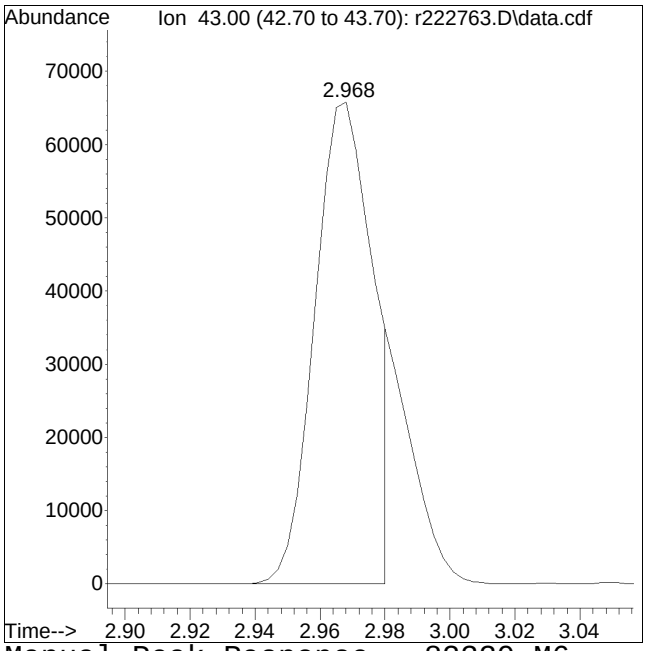
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222763.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:6: 1 Instrument :
Sample : L2409206-05,3,250,250 Quant Date : 3/2/2024 8:06 am

Compound #19: acetone



Original Peak Response = 99253



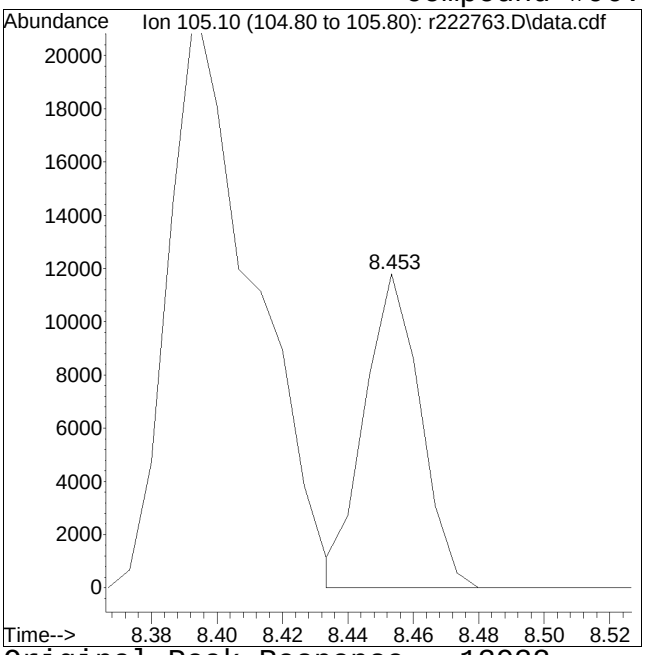
Manual Peak Response = 82330 M6

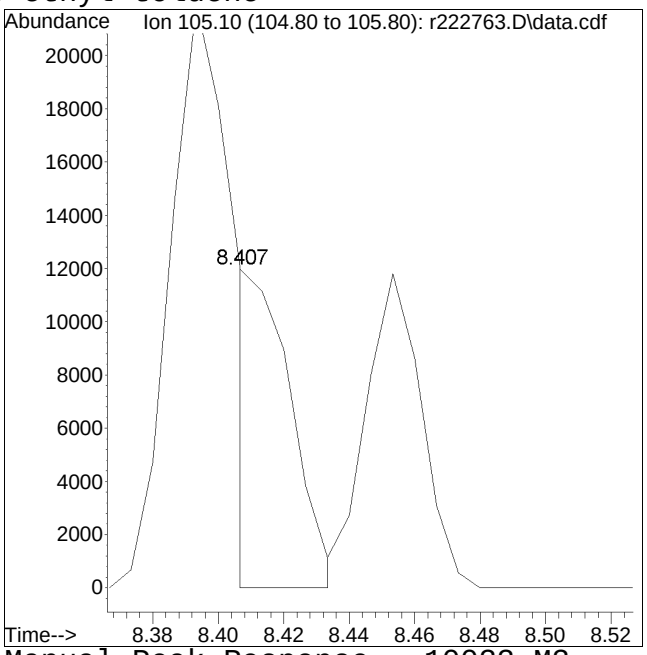
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222763.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:6: 1 Instrument :
Sample : L2409206-05,3,250,250 Quant Date : 3/2/2024 8:06 am

Compound #96: 4-ethyl toluene





Original Peak Response = 13932 Manual Peak Response = 10033 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222764.D
Acq On : 1 Mar 2024 7:23 PM
Operator : AIRLAB22:BJB
Sample : L2409206-07,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:58 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.437	49	224629	10.000	ppbV	-0.01
Standard Area = 199252			Recovery = 112.74%			
43) 1,4-difluorobenzene	5.363	114	707473	10.000	ppbV	-0.01
Standard Area = 623148			Recovery = 113.53%			
67) chlorobenzene-D5	7.333	54	82550	10.000	ppbV	-0.01
Standard Area = 82823			Recovery = 99.67%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.195	85	6621	0.366	ppbV	98
6) chloromethane	2.300	50	14584	1.486	ppbV	99
7) Freon-114	2.355		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.	d	
15) ethanol	2.745	31	15631	4.332	ppbV	100
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.965	43	120722M6	16.704	ppbV	
21) trichlorofluoromethane	3.049	101	3772	0.391	ppbV	95
22) isopropyl alcohol	3.076	45	6065	0.506	ppbV	99
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	3.365	59	36991	1.371	ppbV	97
28) methylene chloride	3.405	49	3166	0.178	ppbV	94
29) 3-chloropropene	3.425		0	N.D.		
30) carbon disulfide	3.545	76	22734	0.461	ppbV #	93
31) Freon 113	3.530	101	1839	0.068	ppbV	95
32) trans-1,2-dichloroethene	3.857		0	N.D.		
33) 1,1-dichloroethane	3.983		0	N.D.		
34) MTBE	3.983		0	N.D.		
36) 2-butanone	4.143	43	9282	0.255	ppbV	99
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	4.497		0	N.D.		
40) Tetrahydrofuran	4.690	42	149106	6.423	ppbV	99
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	4.457	57	3901	0.156	ppbV #	3

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222764.D
Acq On : 1 Mar 2024 7:23 PM
Operator : AIRLAB22:BJB
Sample : L2409206-07,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:58 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.			
50) benzene	5.197	78	9619	0.182	ppbV		95
52) carbon tetrachloride	5.263	117	1009	0.057	ppbV	#	80
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	5.690		0	N.D.			
60) 2,2,4-trimethylpentane	0.000		0	N.D.	d		
62) heptane	5.830	43	4803	0.152	ppbV		96
63) cis-1,3-dichloropropene	0.000		0	N.D.			
64) 4-methyl-2-pentanone	6.107	43	21870	0.623	ppbV		98
65) trans-1,3-dichloropropene	0.000		0	N.D.			
66) 1,1,2-trichloroethane	6.493		0	N.D.			
68) toluene	6.533	91	57400	0.834	ppbV		99
72) 2-hexanone	6.647	43	2198M3	0.054	ppbV		
74) dibromochloromethane	0.000		0	N.D.			
75) 1,2-dibromoethane	0.000		0	N.D.			
78) tetrachloroethene	7.047	166	3779	0.141	ppbV		95
80) chlorobenzene	7.360		0	N.D.			
81) ethylbenzene	7.520	91	23471	0.282	ppbV		98
83) m+p-xylene	7.600	91	71885	1.108	ppbV		96
84) bromoform	0.000		0	N.D.			
85) styrene	7.767	104	4820	0.083	ppbV		96
86) 1,1,2,2-tetrachloroethane	7.833		0	N.D.			
87) o-xylene	7.820	91	25153	0.397	ppbV		95
96) 4-ethyl toluene	8.407	105	9015M3	0.096	ppbV		
97) 1,3,5-trimethylbenzene	8.453	105	8426	0.110	ppbV		96
99) 1,2,4-trimethylbenzene	8.663	105	30128	0.412	ppbV	#	58
101) Benzyl Chloride	8.803		0	N.D.			
102) 1,3-dichlorobenzene	8.777		0	N.D.			
103) 1,4-dichlorobenzene	8.777		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\Airlab22\2024\03\0301T\
Data File : r222764.D
Acq On : 1 Mar 2024 7:23 PM
Operator : AIRLAB22:BJB
Sample : L2409206-07,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:58 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

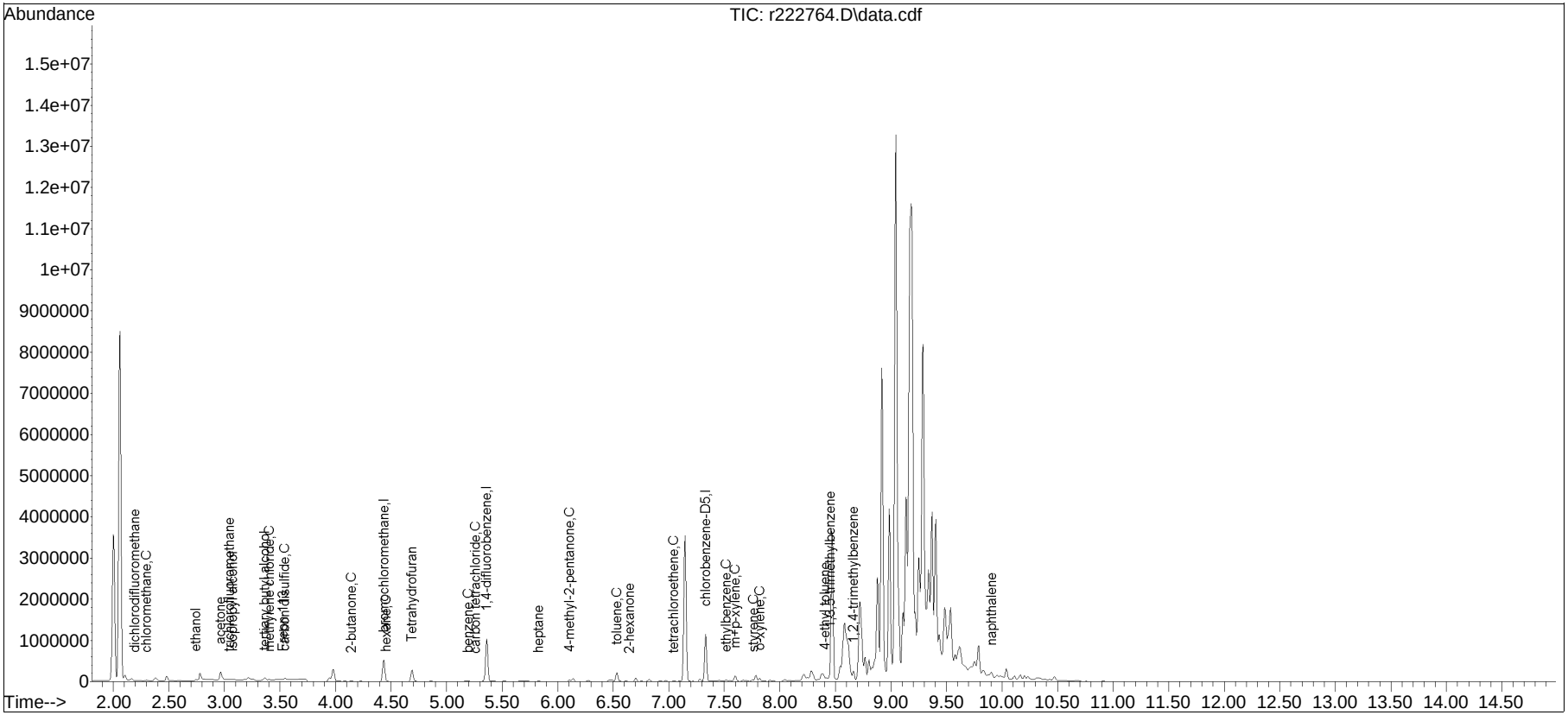
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

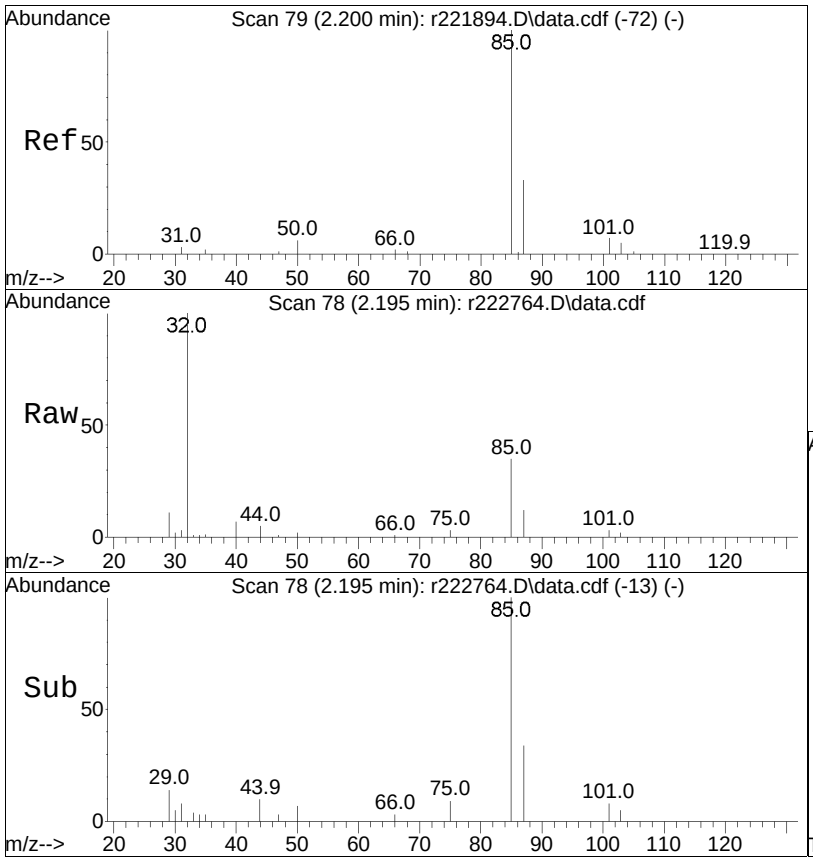
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : TO15-NY+Naphthalene - .b22\2024\03\0301T\r222756.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222764.D
Acq On : 1 Mar 2024 7:23 PM
Operator : AIRLAB22:BJB
Sample : L2409206-07,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:06:58 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

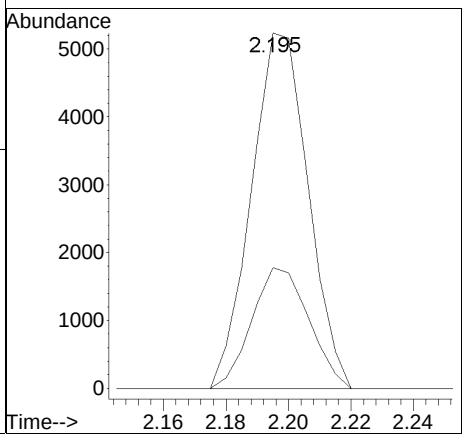


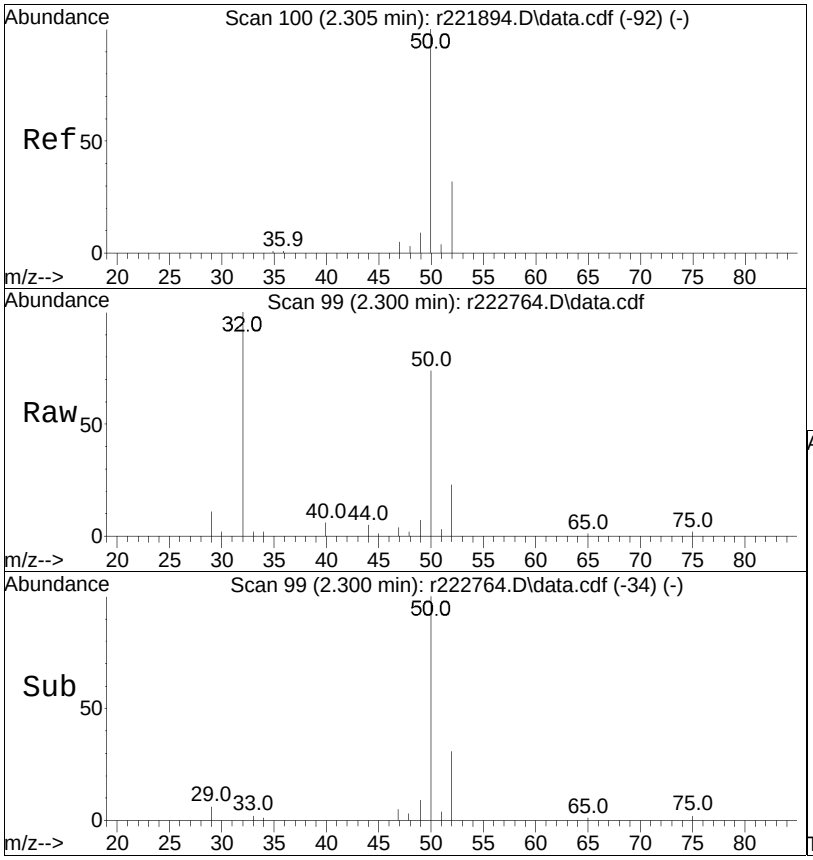


#5
dichlorodifluoromethane
Concen: 0.37 ppbV
RT: 2.195 min Scan# 78
Delta R.T. -0.005 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 85 Resp: 6621

Ion	Ratio	Lower	Upper
85	100		
87	34.0	26.3	39.5

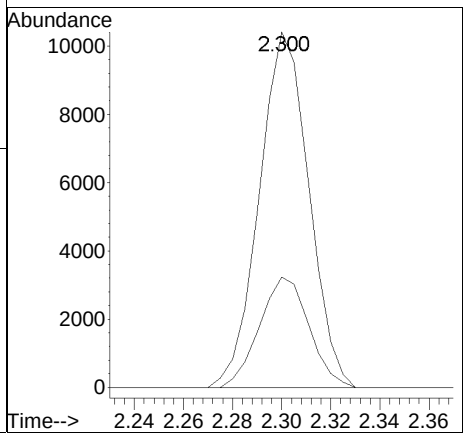


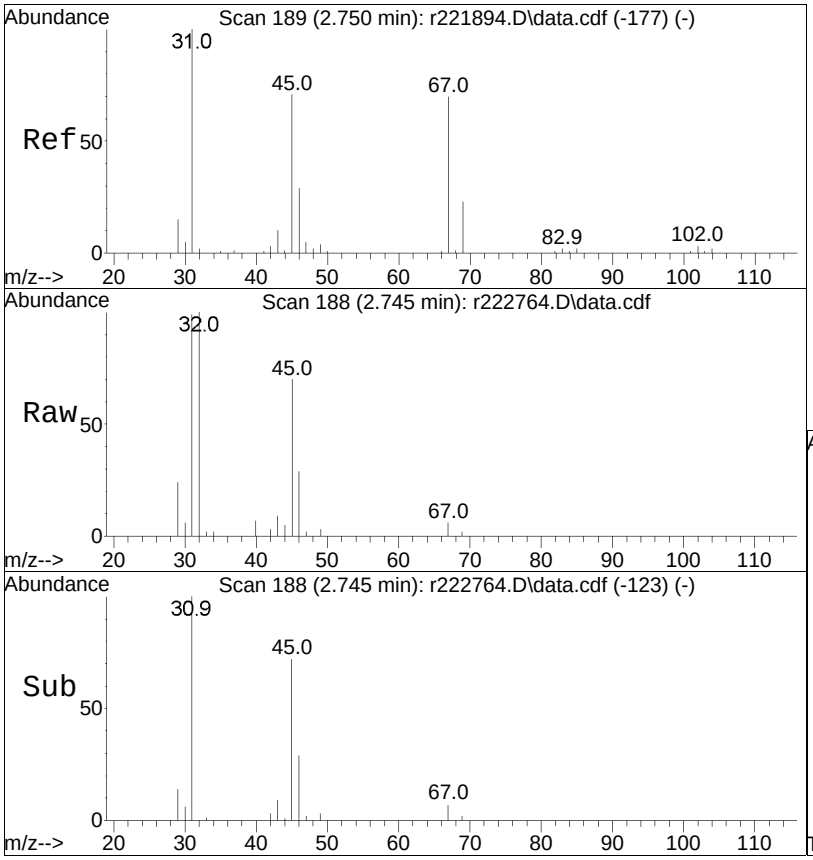


#6
chloromethane
Concen: 1.49 ppbV
RT: 2.300 min Scan# 99
Delta R.T. -0.005 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 50 Resp: 14584

Ion	Ratio	Lower	Upper
50	100		
52	31.1	25.5	38.3

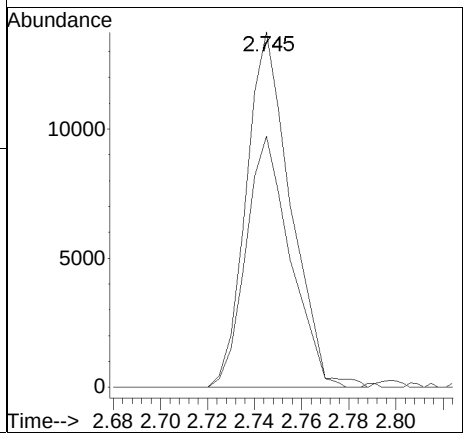


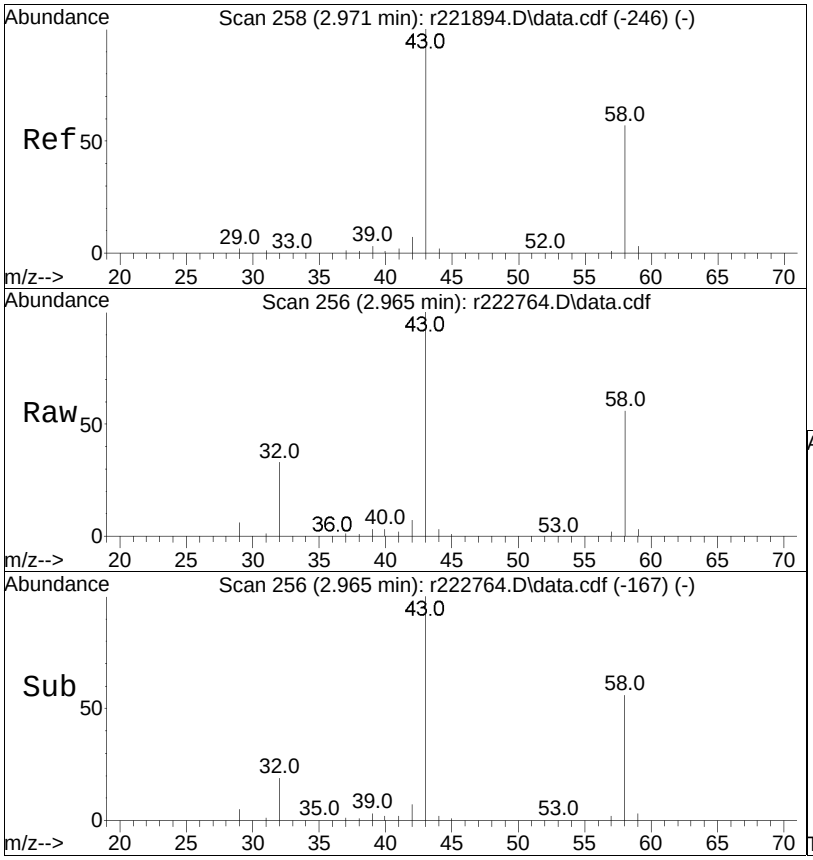


#15
ethanol
Concen: 4.33 ppbV
RT: 2.745 min Scan# 188
Delta R.T. -0.005 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 31 Resp: 15631

Ion	Ratio	Lower	Upper
31	100		
45	70.7	56.6	84.8

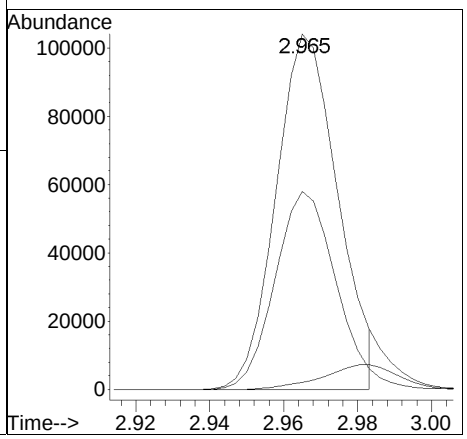


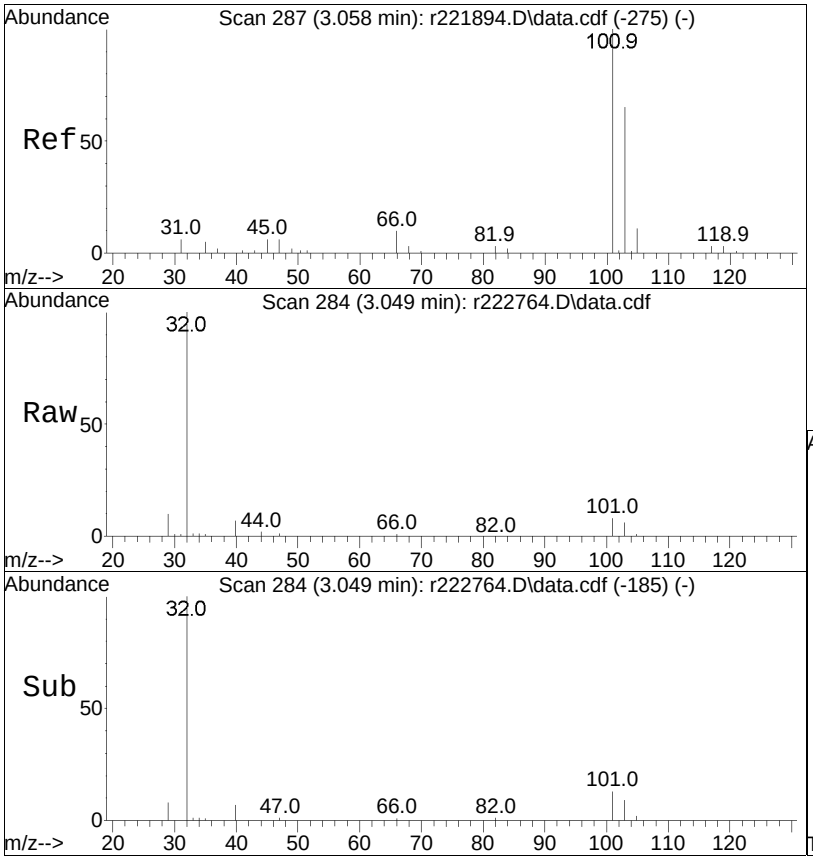


#19
acetone
Concen: 16.70 ppbV m
RT: 2.965 min Scan# 256
Delta R.T. -0.006 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 43 Resp: 120722

Ion	Ratio	Lower	Upper
43	100		
58	55.7	45.5	68.3
57	2.0	1.0	1.6#

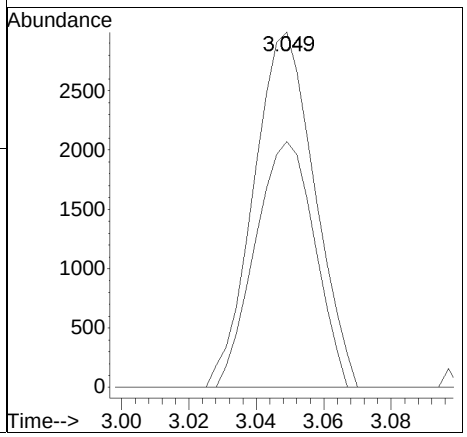


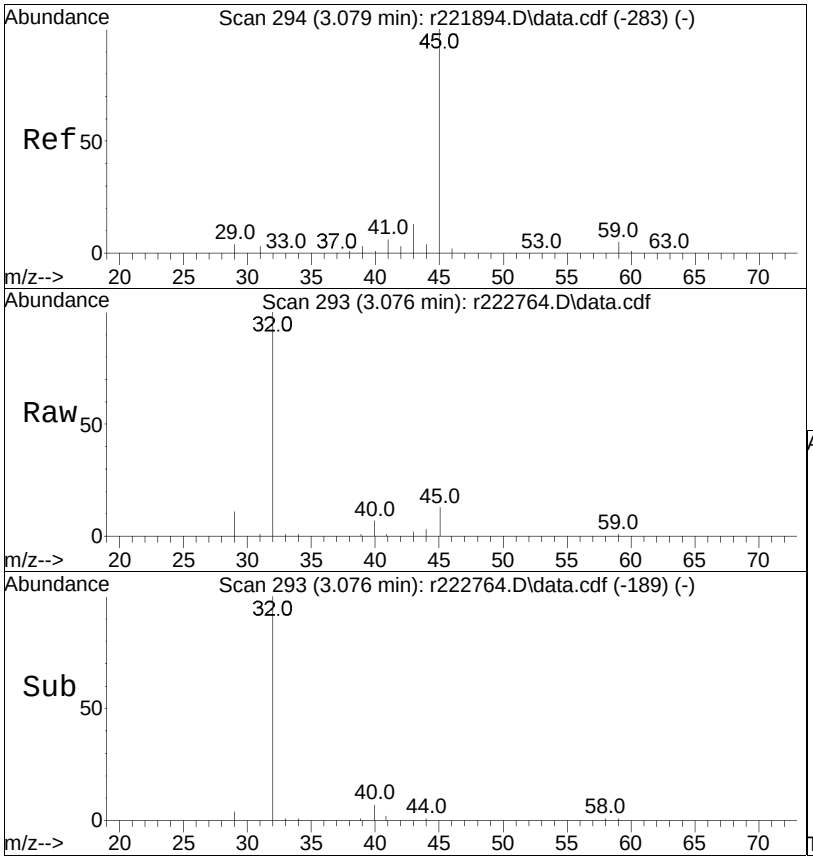


#21
trichlorofluoromethane
Concen: 0.39 ppbV
RT: 3.049 min Scan# 284
Delta R.T. -0.009 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion:101 Resp: 3772

Ion	Ratio	Lower	Upper
101	100		
103	69.2	52.2	78.4

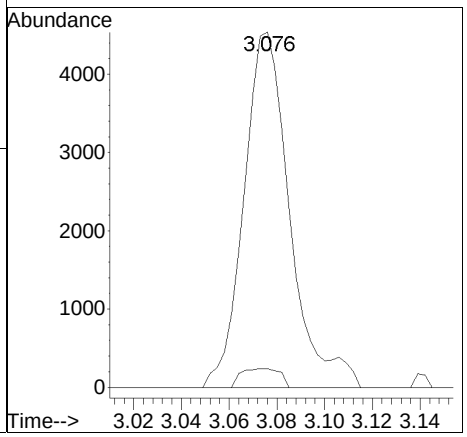


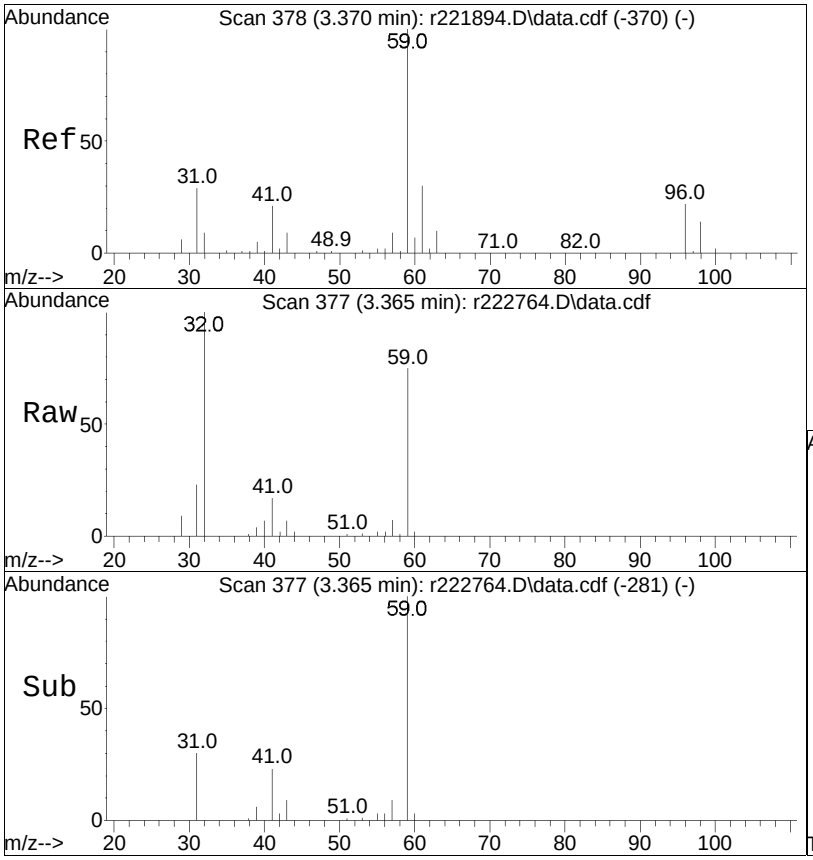


#22
isopropyl alcohol
Concen: 0.51 ppbV
RT: 3.076 min Scan# 293
Delta R.T. -0.003 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 45 Resp: 6065

Ion	Ratio	Lower	Upper
45	100		
59	5.3	4.0	6.0

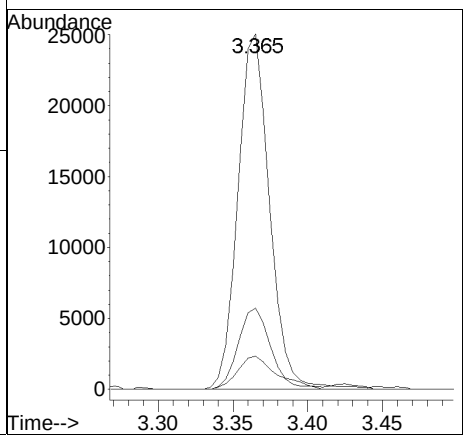


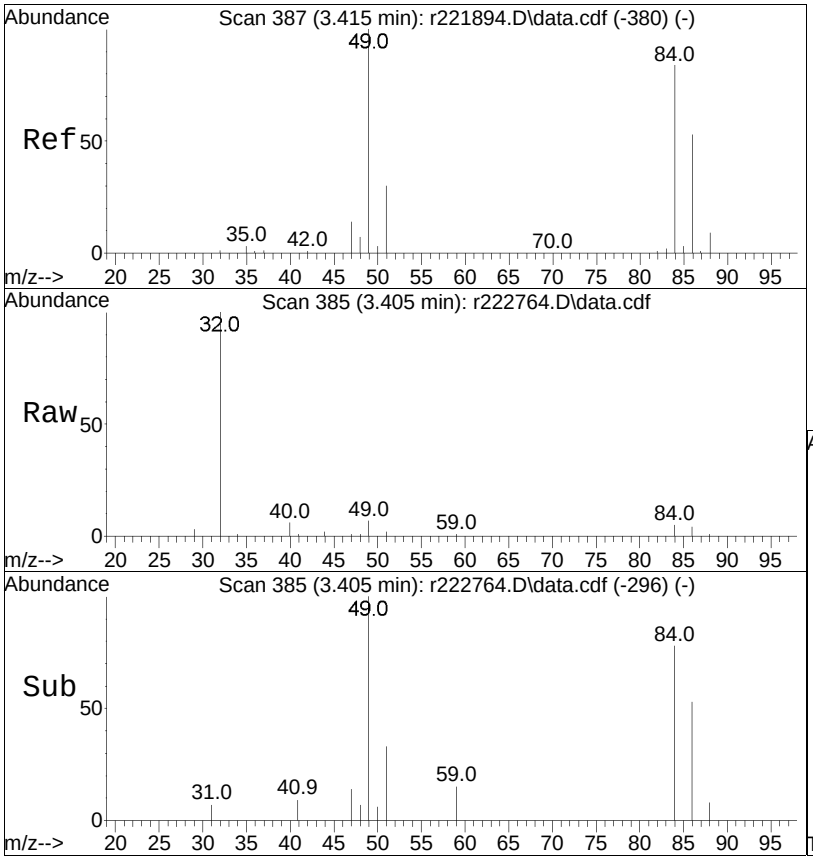


#27
tertiary butyl alcohol
Concen: 1.37 ppbV
RT: 3.365 min Scan# 377
Delta R.T. -0.005 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 59 Resp: 36991

Ion	Ratio	Lower	Upper
59	100		
41	22.9	16.9	25.3
43	9.4	7.5	11.3

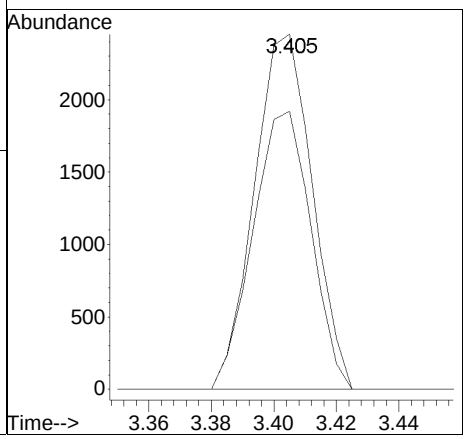


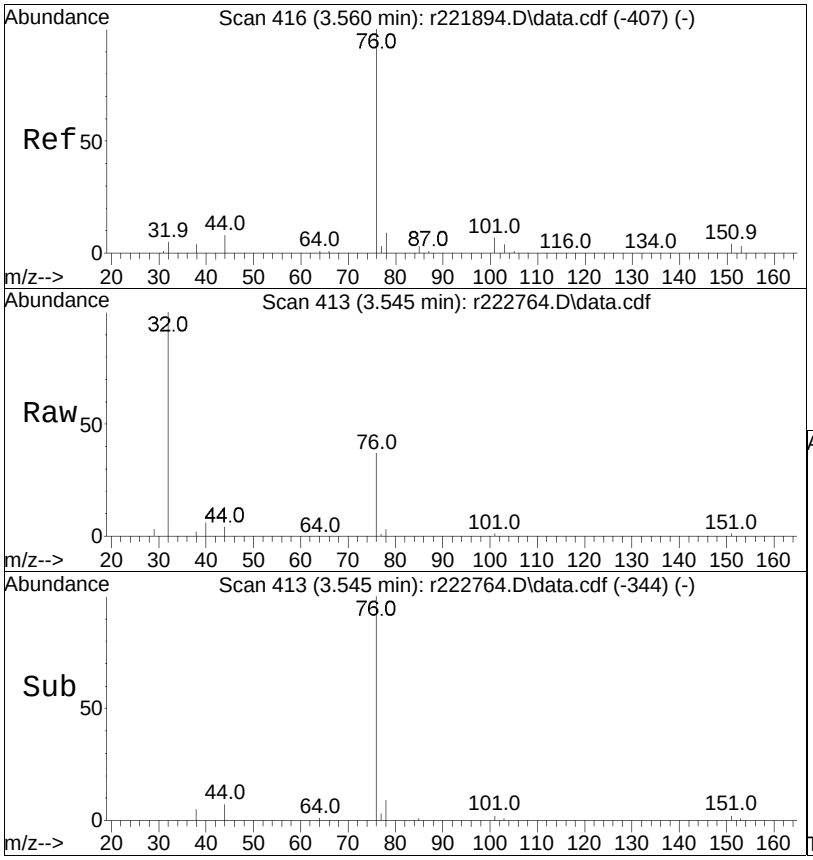


#28
methylene chloride
Concen: 0.18 ppbV
RT: 3.405 min Scan# 385
Delta R.T. -0.010 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 49 Resp: 3166

Ion	Ratio	Lower	Upper
49	100		
84	78.3	67.2	100.8

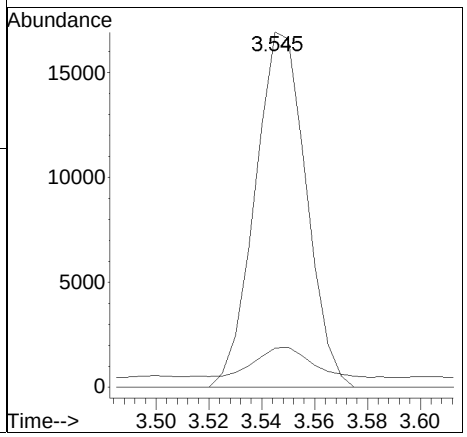


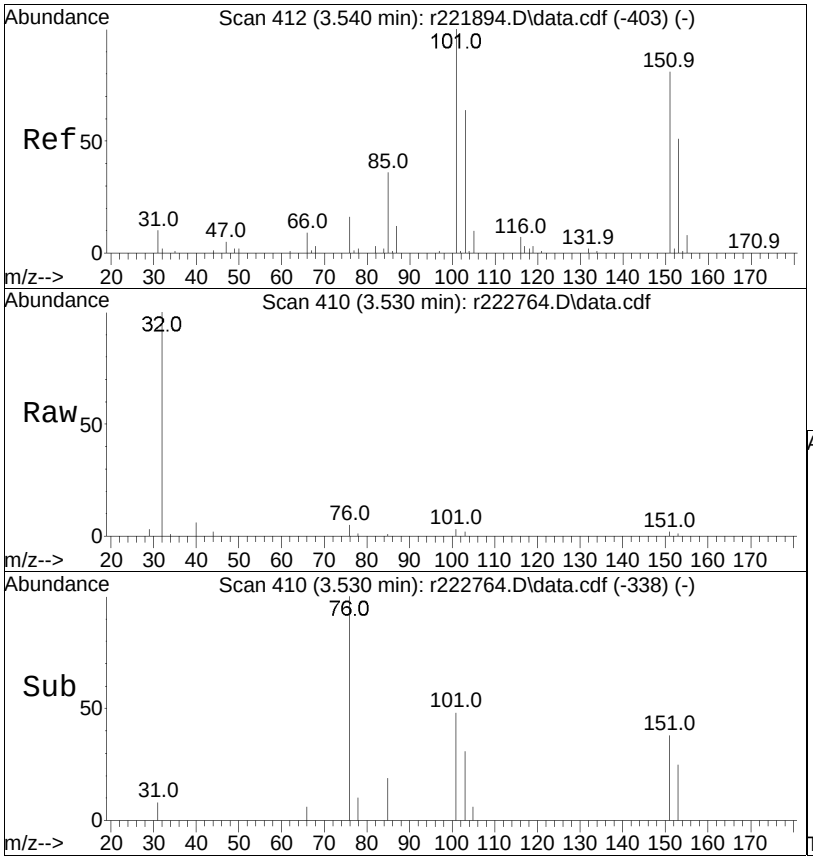


#30
carbon disulfide
Concen: 0.46 ppbV
RT: 3.545 min Scan# 413
Delta R.T. -0.015 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 76 Resp: 22734

Ion	Ratio	Lower	Upper
76	100		
44	11.1	6.8	10.2#

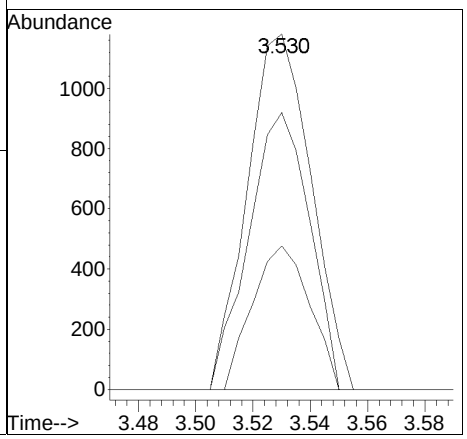


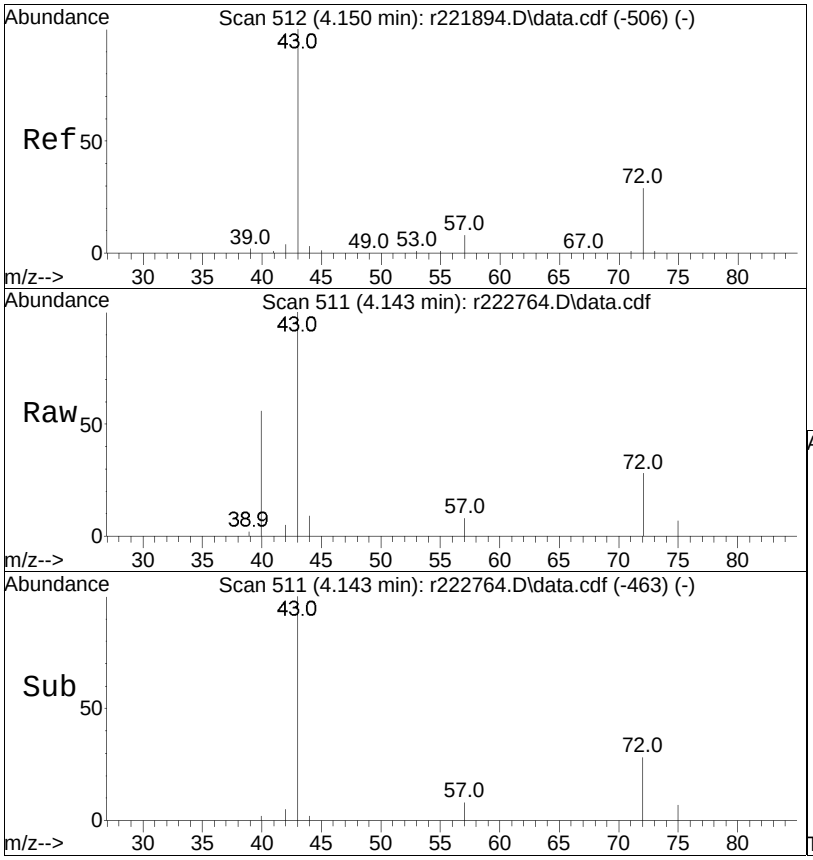


#31
Freon 113
Concen: 0.07 ppbV
RT: 3.530 min Scan# 410
Delta R.T. -0.010 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion:101 Resp: 1839

Ion	Ratio	Lower	Upper
101	100		
85	40.4	28.6	43.0
151	77.9	64.6	97.0

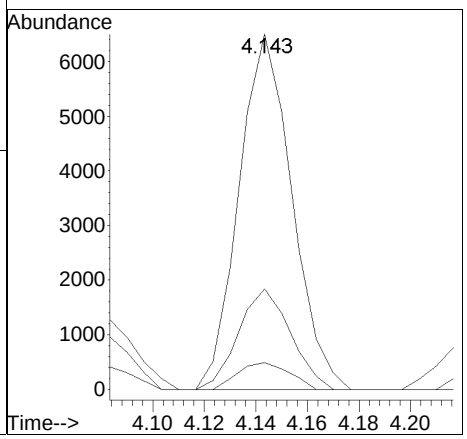


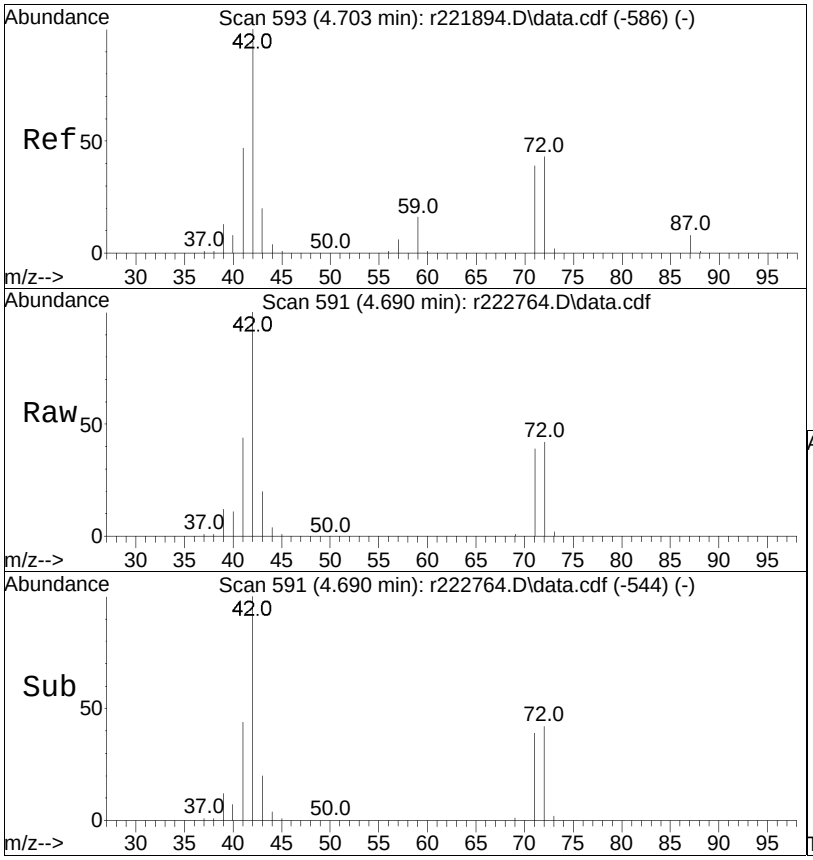


#36
2-butanone
Concen: 0.25 ppbV
RT: 4.143 min Scan# 511
Delta R.T. -0.007 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 43 Resp: 9282

Ion	Ratio	Lower	Upper
43	100		
72	28.3	23.0	34.6
57	7.5	6.3	9.5

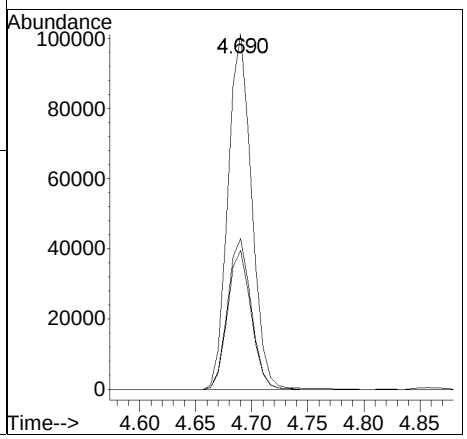


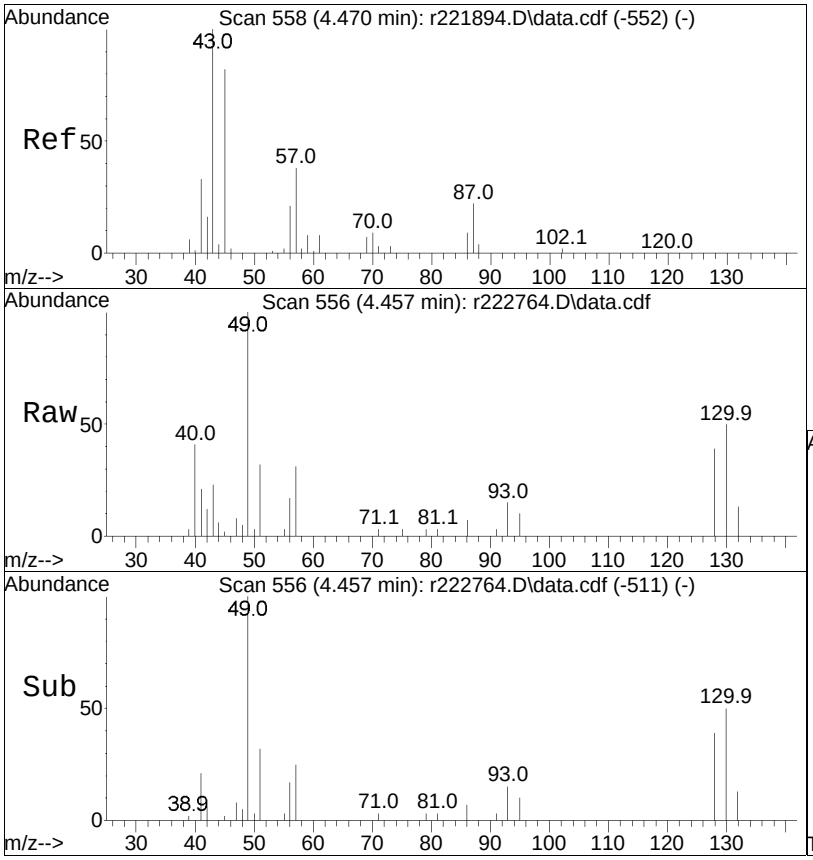


#40
Tetrahydrofuran
Concen: 6.42 ppbV
RT: 4.690 min Scan# 591
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 42 Resp: 149106

Ion	Ratio	Lower	Upper
42	100		
71	39.1	31.4	47.2
72	42.5	34.3	51.5

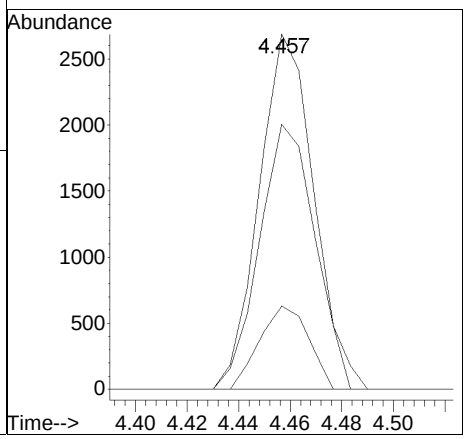


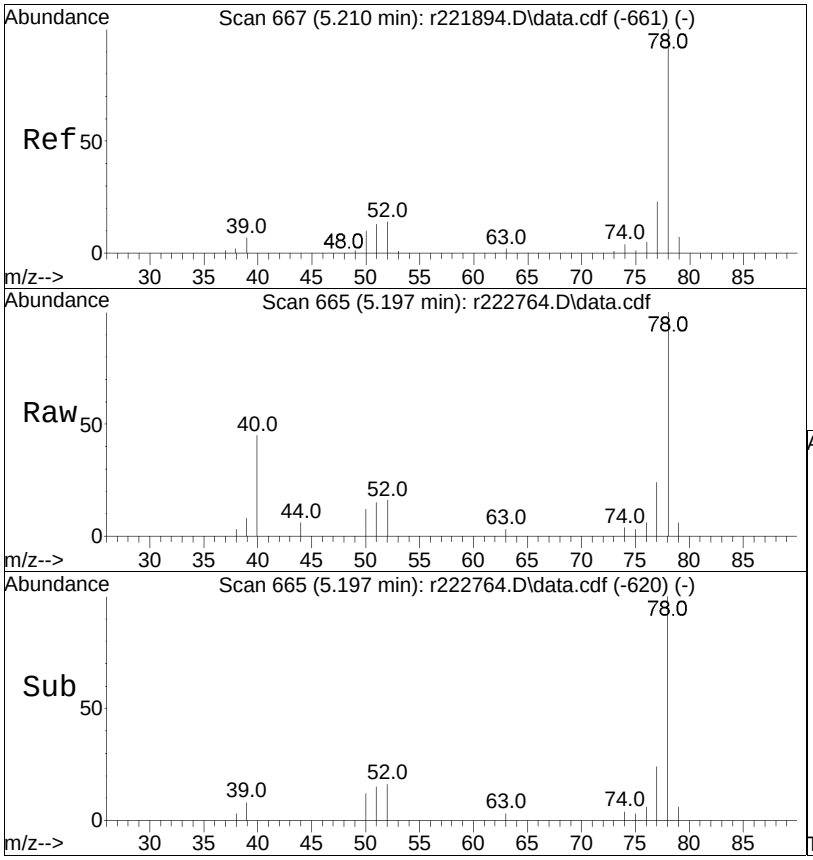


#44
hexane
Concen: 0.16 ppbV
RT: 4.457 min Scan# 556
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 57 Resp: 3901

Ion	Ratio	Lower	Upper
57	100		
43	74.6	210.8	316.2#
86	23.4	17.9	26.9

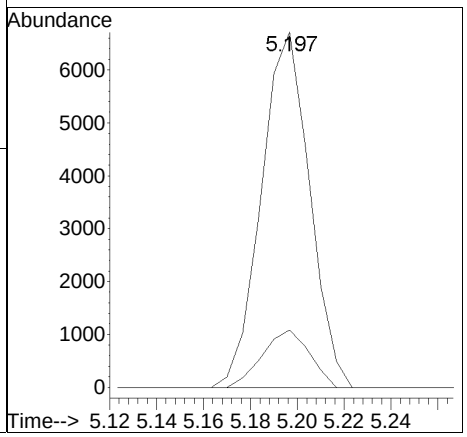


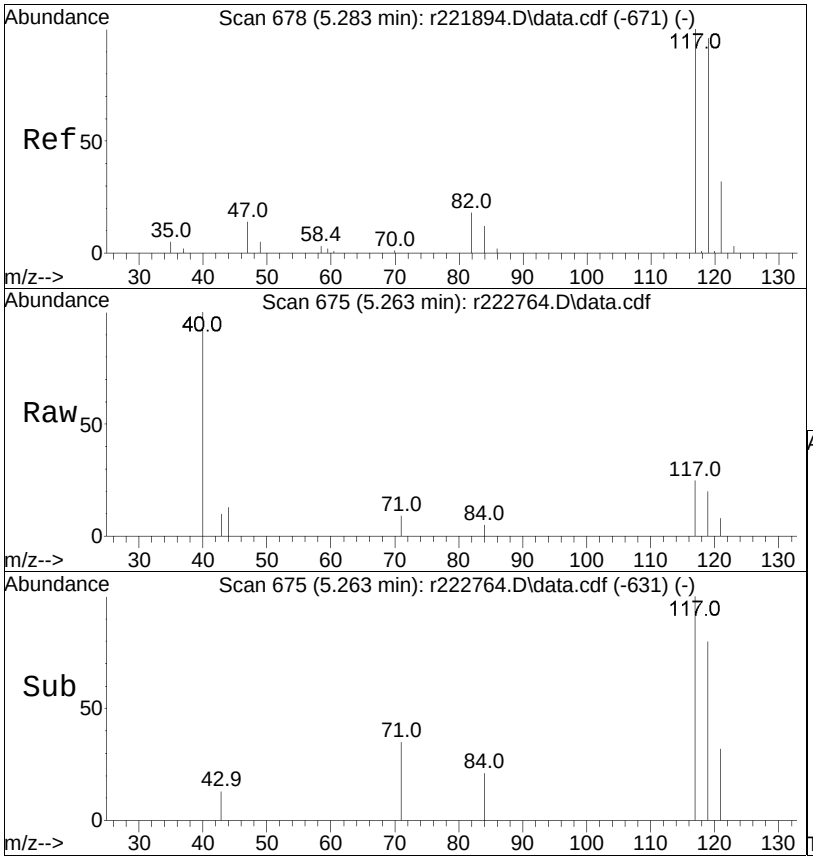


#50
benzene
Concen: 0.18 ppbV
RT: 5.197 min Scan# 665
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 78 Resp: 9619

Ion	Ratio	Lower	Upper
78	100		
52	16.2	11.3	16.9

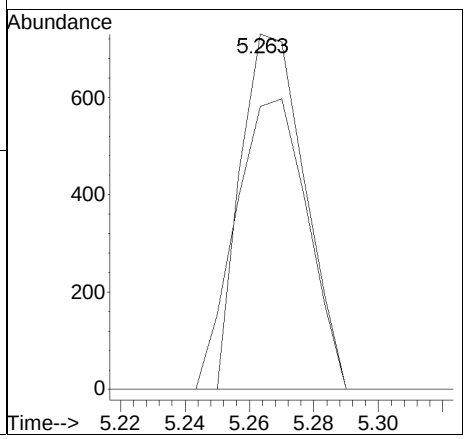


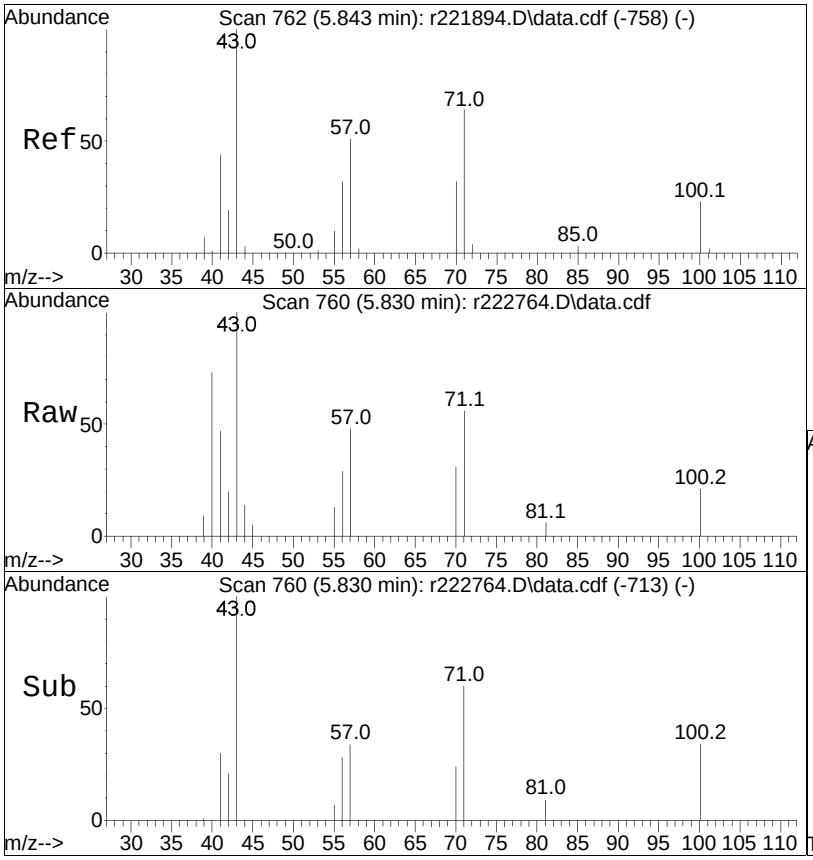


#52
carbon tetrachloride
Concen: 0.06 ppbV
RT: 5.263 min Scan# 675
Delta R.T. -0.020 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion:117 Resp: 1009

Ion	Ratio	Lower	Upper
117	100		
119	79.6	76.5	114.7
82	0.0	14.7	22.1#

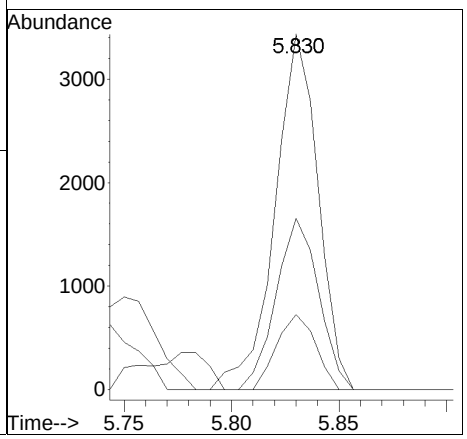


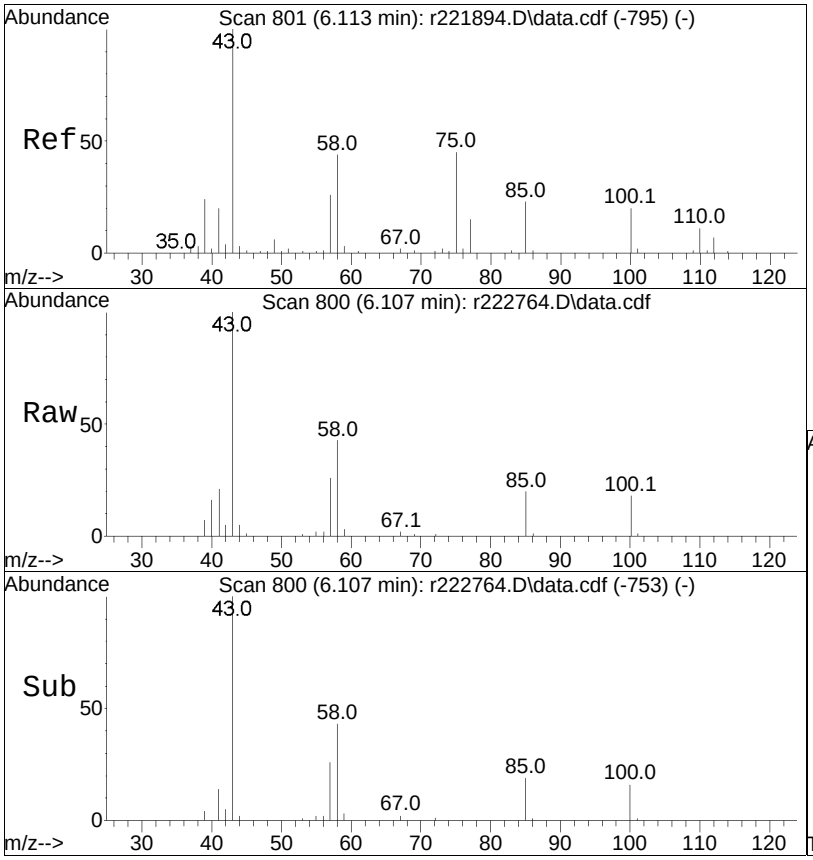


#62
heptane
Concen: 0.15 ppbV
RT: 5.830 min Scan# 760
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 43 Resp: 4803

Ion	Ratio	Lower	Upper
43	100		
57	48.2	40.4	60.6
100	21.1	19.0	28.6

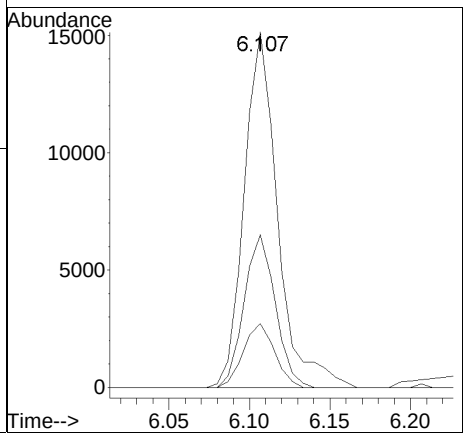


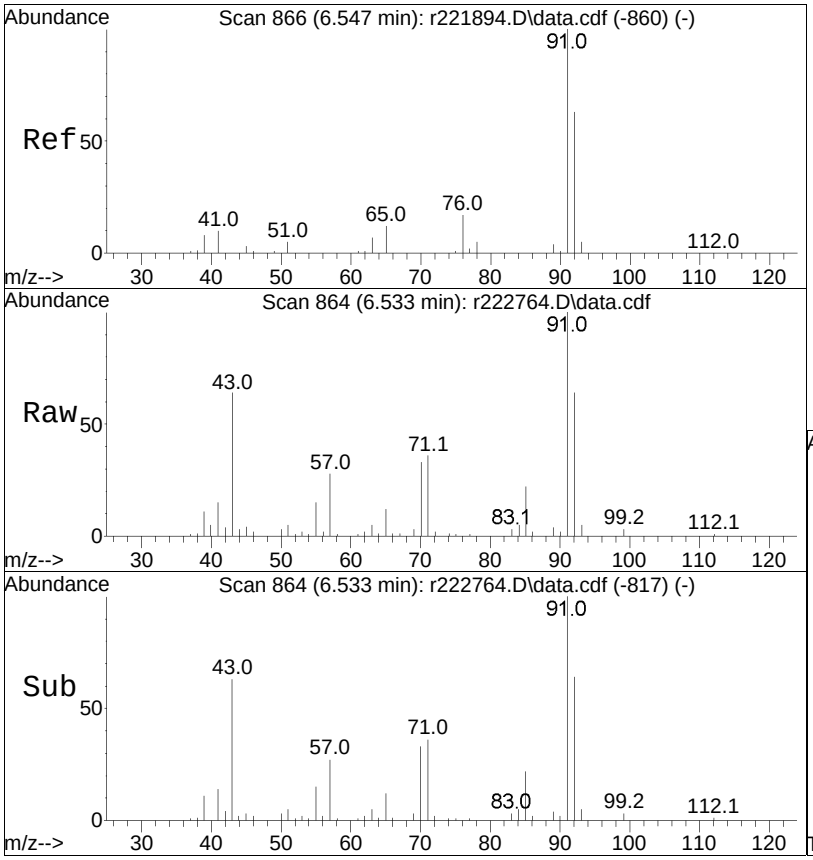


#64
4-methyl-2-pentanone
Concen: 0.62 ppbV
RT: 6.107 min Scan# 800
Delta R.T. -0.007 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 43 Resp: 21870

Ion	Ratio	Lower	Upper
43	100		
58	43.0	34.9	52.3
100	18.0	16.1	24.1

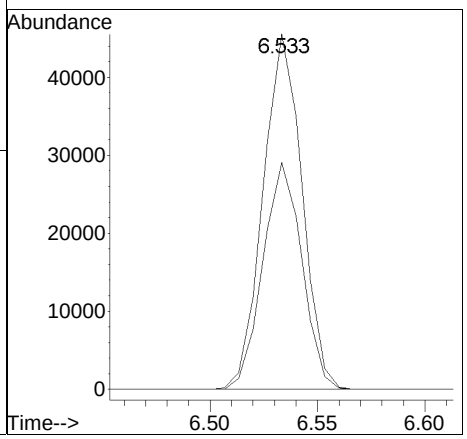


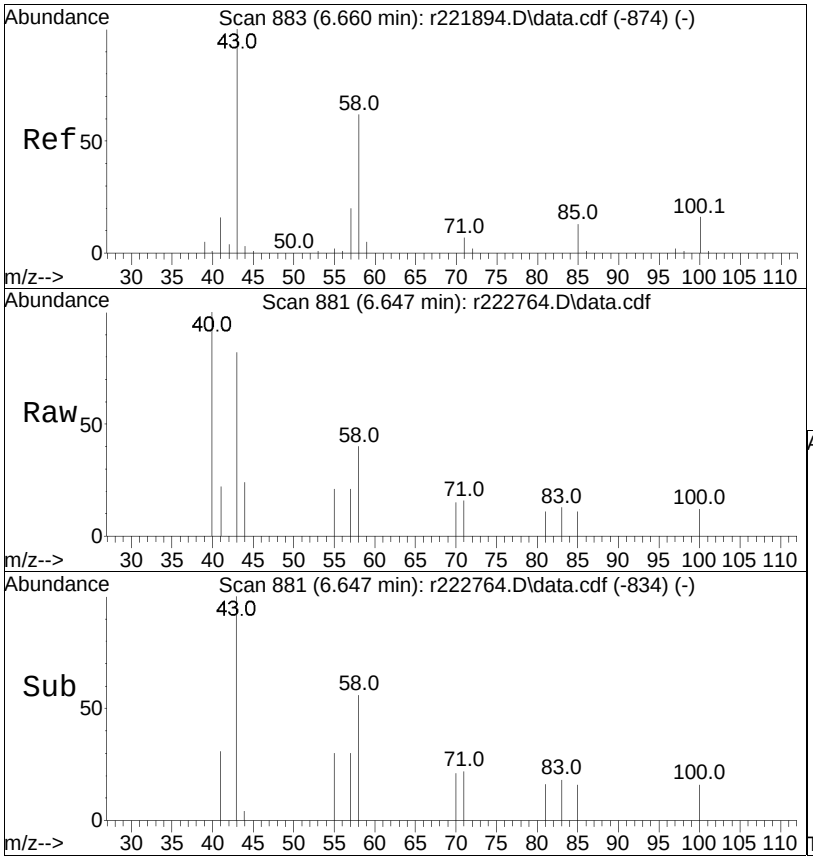


#68
toluene
Concen: 0.83 ppbV
RT: 6.533 min Scan# 864
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 91 Resp: 57400

Ion	Ratio	Lower	Upper
91	100		
92	63.8	50.7	76.1

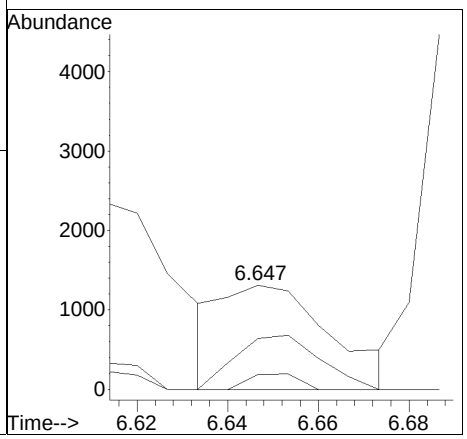


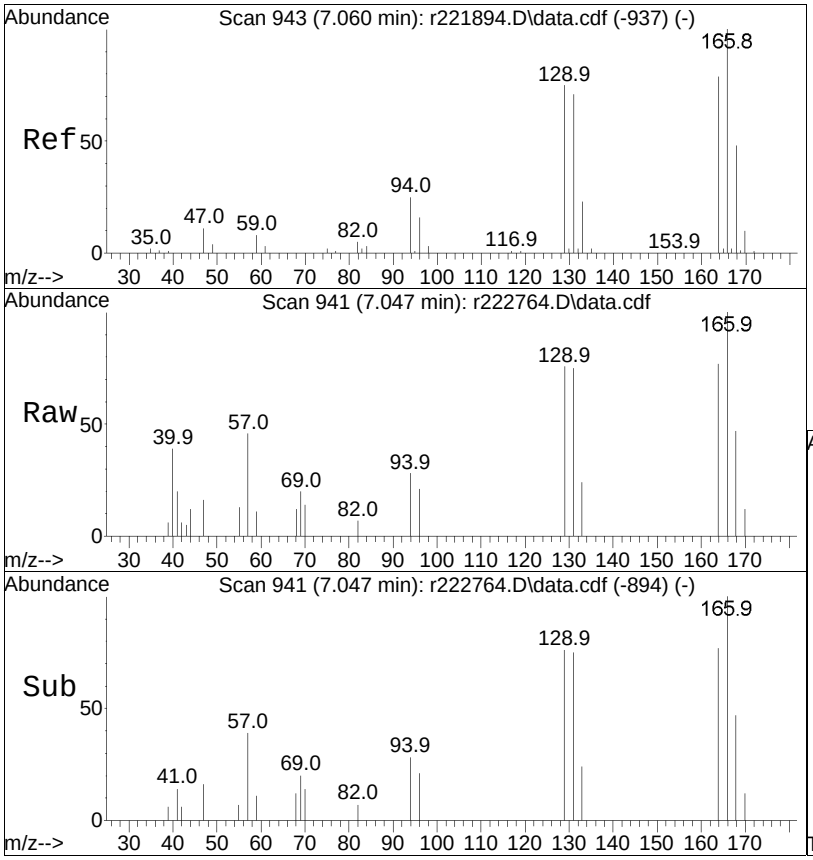


#72
2-hexanone
Concen: 0.05 ppbV m
RT: 6.647 min Scan# 881
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 43 Resp: 2198

Ion	Ratio	Lower	Upper
43	100		
58	48.9	49.2	73.8#
100	14.3	12.4	18.6

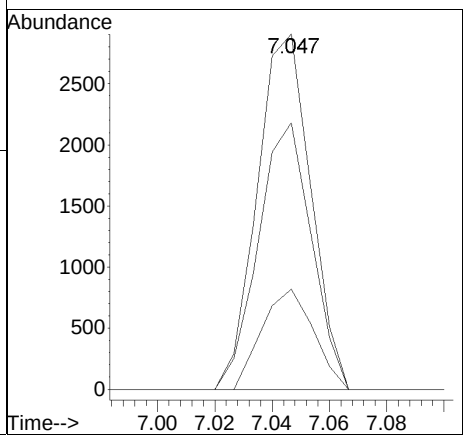


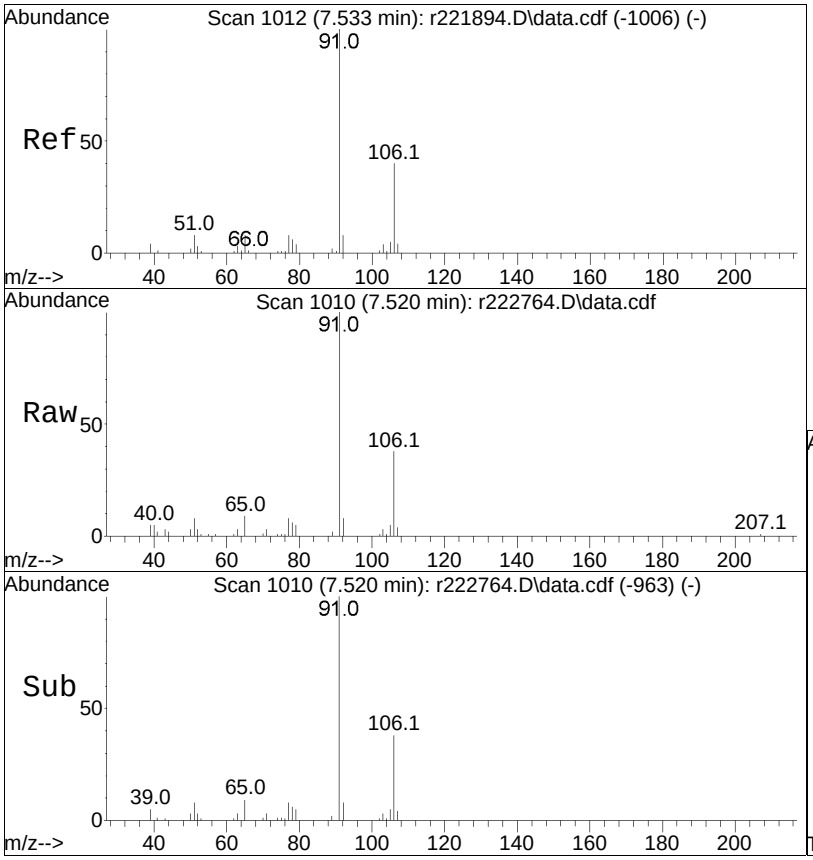


#78
tetrachloroethene
Concen: 0.14 ppbV
RT: 7.047 min Scan# 941
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion:166 Resp: 3779

Ion	Ratio	Lower	Upper
166	100		
131	75.1	56.9	85.3
94	28.2	19.8	29.8

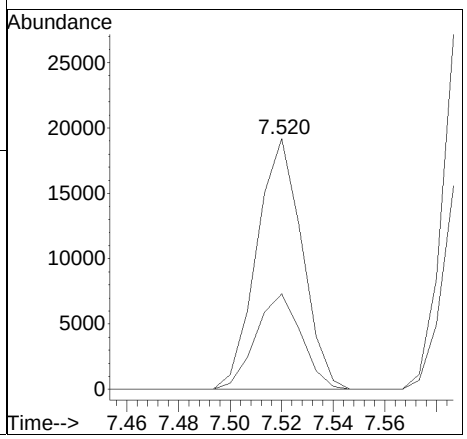


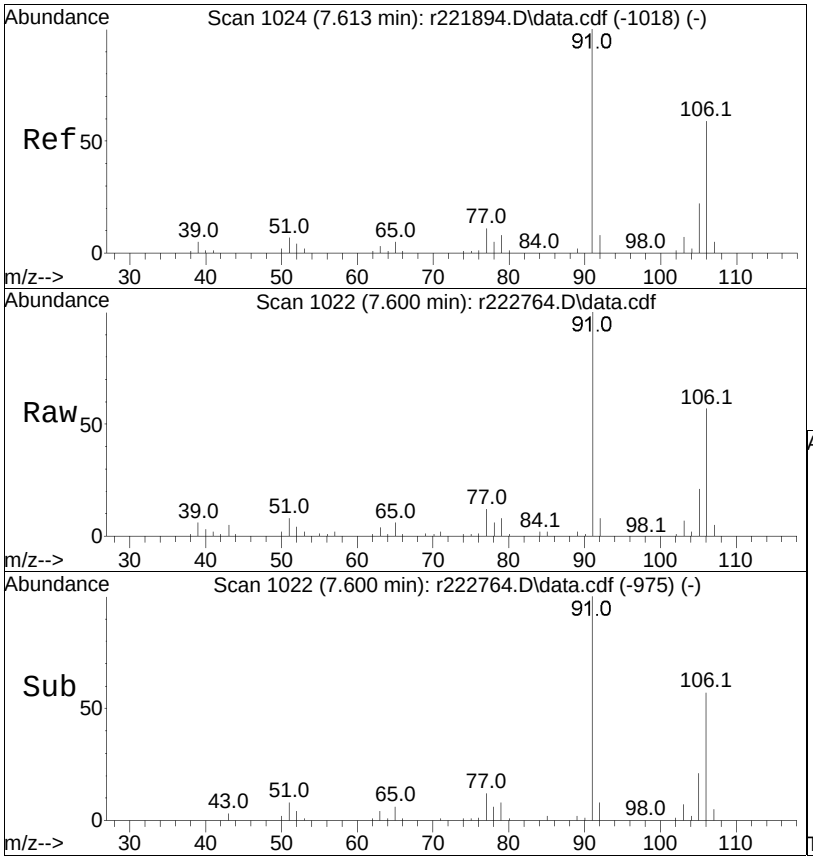


#81
ethylbenzene
Concen: 0.28 ppbV
RT: 7.520 min Scan# 1010
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 91 Resp: 23471

Ion	Ratio	Lower	Upper
91	100		
106	38.1	31.7	47.5

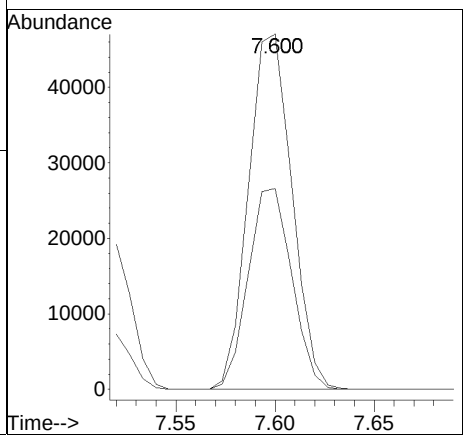


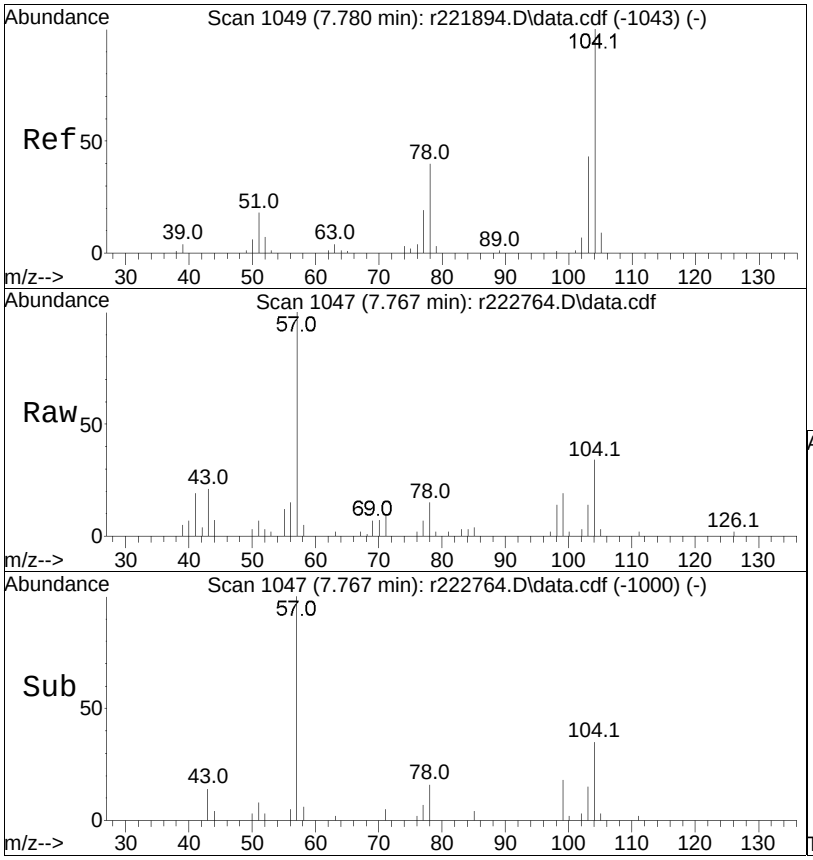


#83
m+p-xylene
Concen: 1.11 ppbV
RT: 7.600 min Scan# 1022
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 91 Resp: 71885

Ion	Ratio	Lower	Upper
91	100		
106	56.5	47.4	71.2

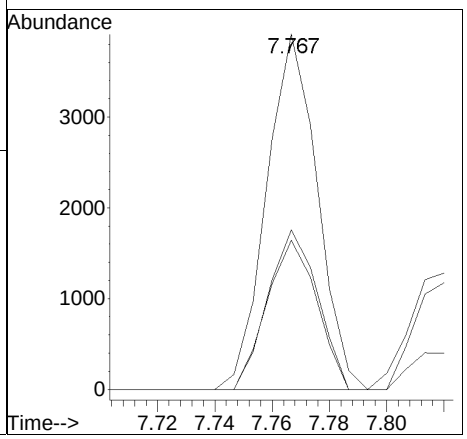


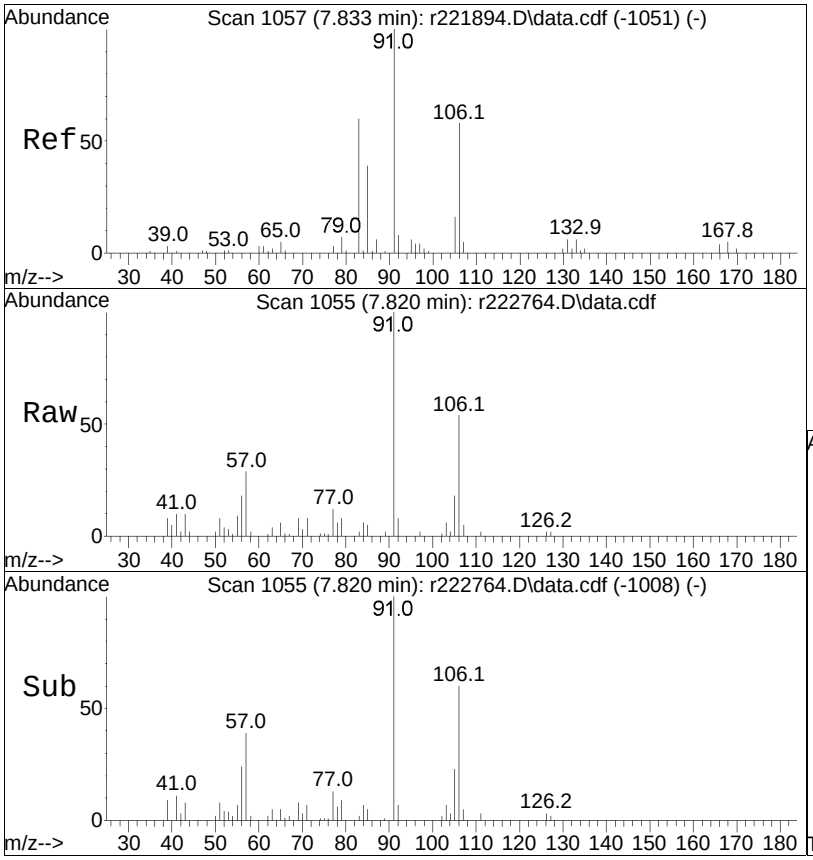


#85
styrene
Concen: 0.08 ppbV
RT: 7.767 min Scan# 1047
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion:104 Resp: 4820

Ion	Ratio	Lower	Upper
104	100		
103	42.0	34.3	51.5
78	44.9	32.3	48.5

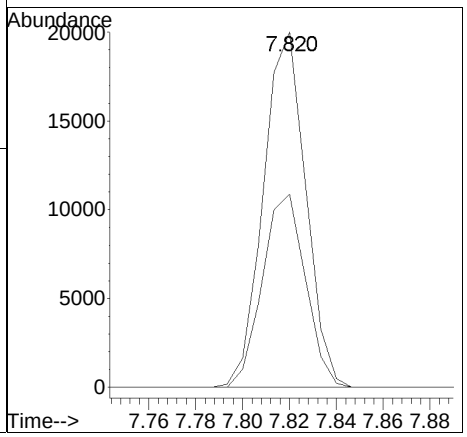


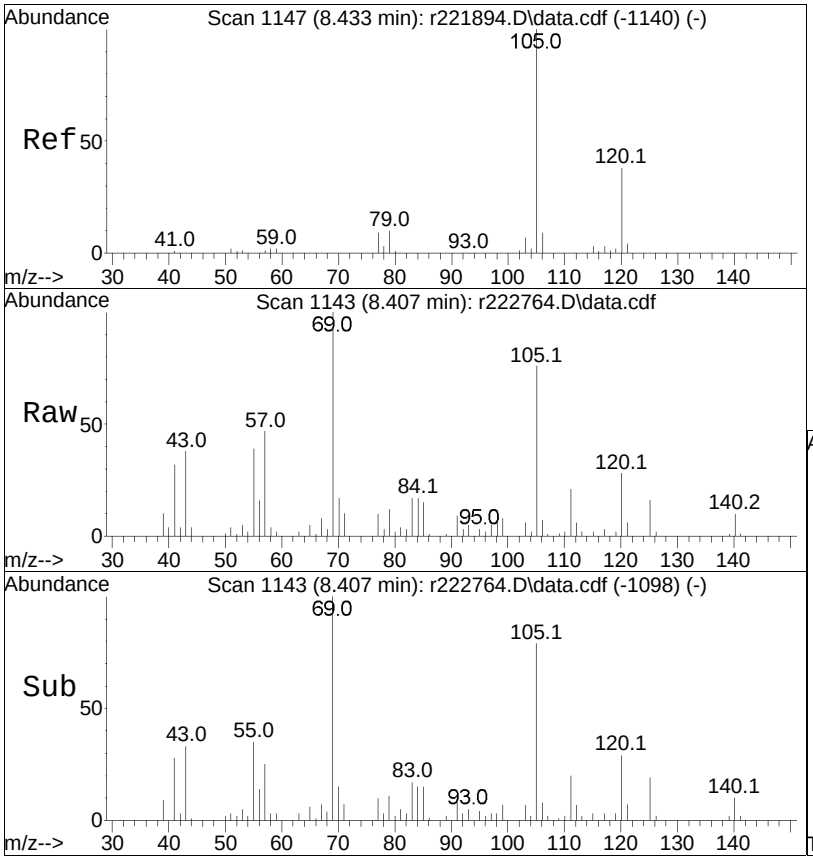


#87
o-xylene
Concen: 0.40 ppbV
RT: 7.820 min Scan# 1055
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion: 91 Resp: 25153

Ion	Ratio	Lower	Upper
91	100		
106	54.5	46.2	69.4

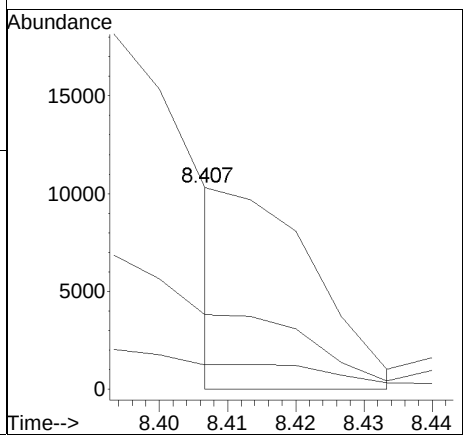


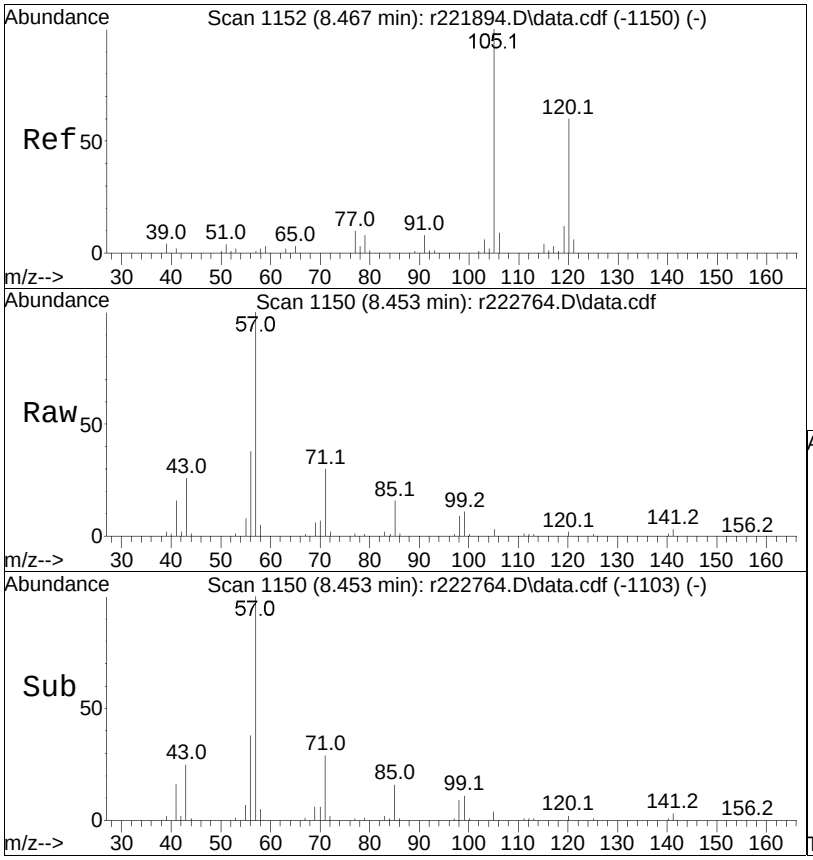


#96
4-ethyl toluene
Concen: 0.10 ppbV m
RT: 8.407 min Scan# 1143
Delta R.T. -0.027 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion:105 Resp: 9015

Ion	Ratio	Lower	Upper
105	100		
120	37.0	30.7	46.1
91	12.1	7.2	10.8#

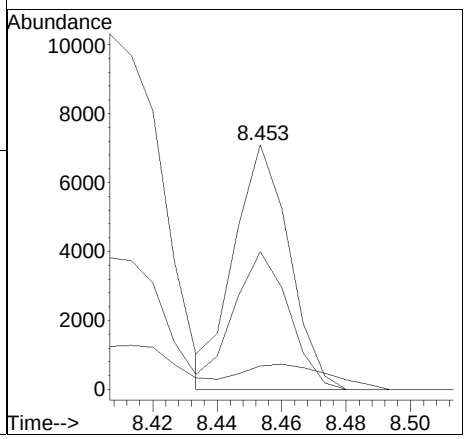


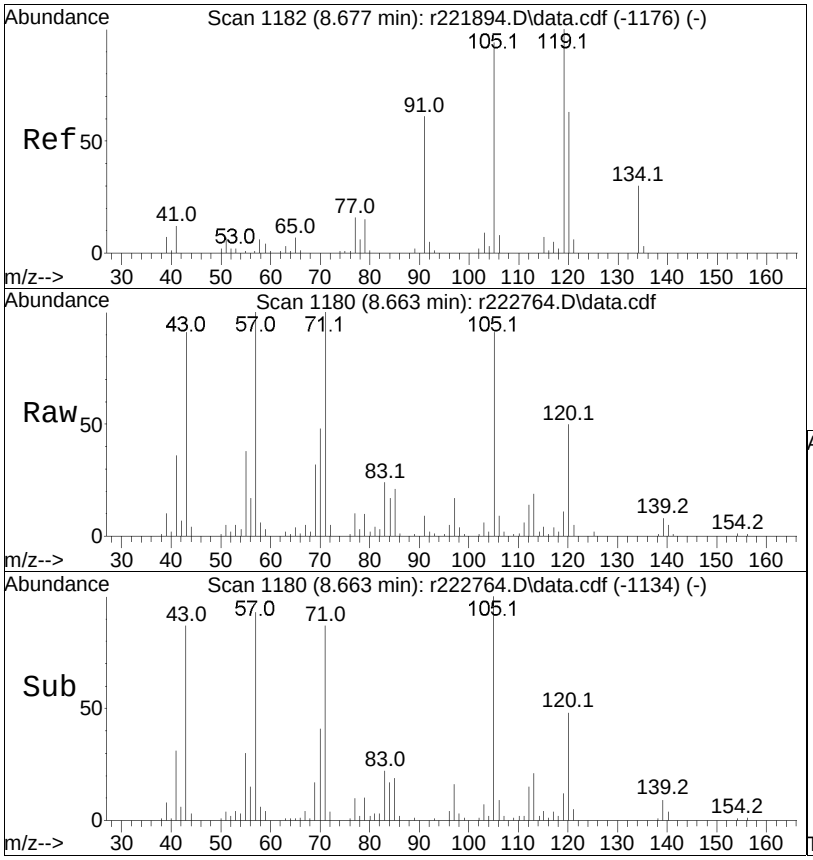


#97
1,3,5-trimethylbenzene
Concen: 0.11 ppbV
RT: 8.453 min Scan# 1150
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion:105 Resp: 8426

Ion	Ratio	Lower	Upper
105	100		
120	56.3	47.8	71.8
91	9.6	6.6	10.0

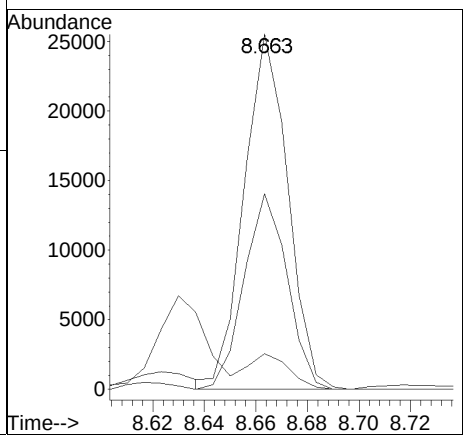




#99
1,2,4-trimethylbenzene
Concen: 0.41 ppbV
RT: 8.663 min Scan# 1180
Delta R.T. -0.013 min
Lab File: r222764.D
Acq: 1 Mar 2024 7:23 PM

Tgt Ion:105 Resp: 30128

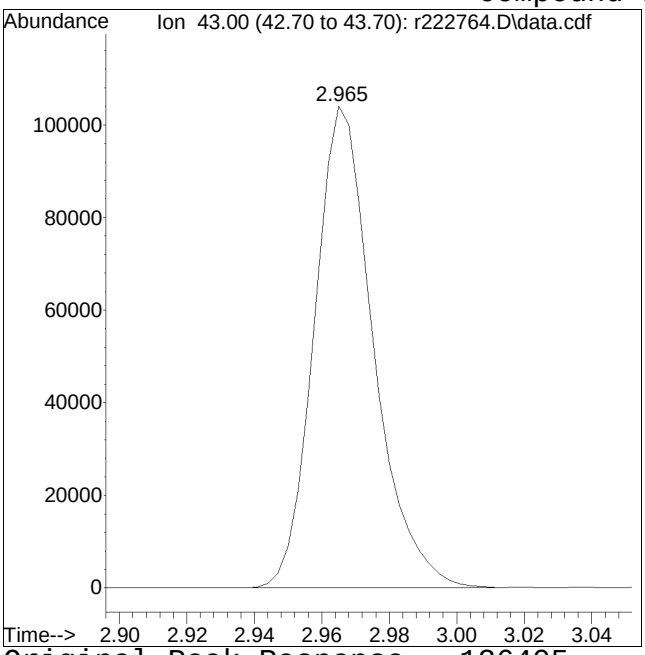
Ion	Ratio	Lower	Upper
105	100		
120	55.1	53.8	80.8
91	10.1	52.2	78.2#



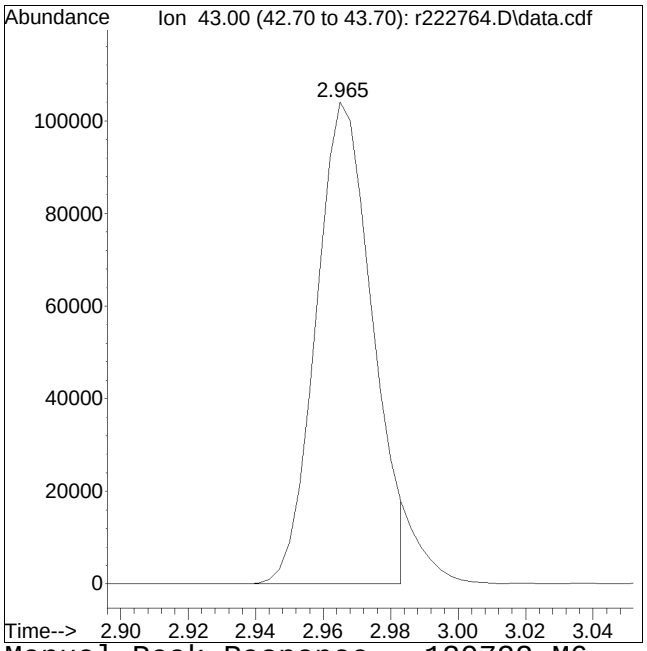
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222764.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:7: 3 Instrument :
Sample : L2409206-07,3,250,250 Quant Date : 3/2/2024 8:06 am

Compound #19: acetone



Original Peak Response = 126405



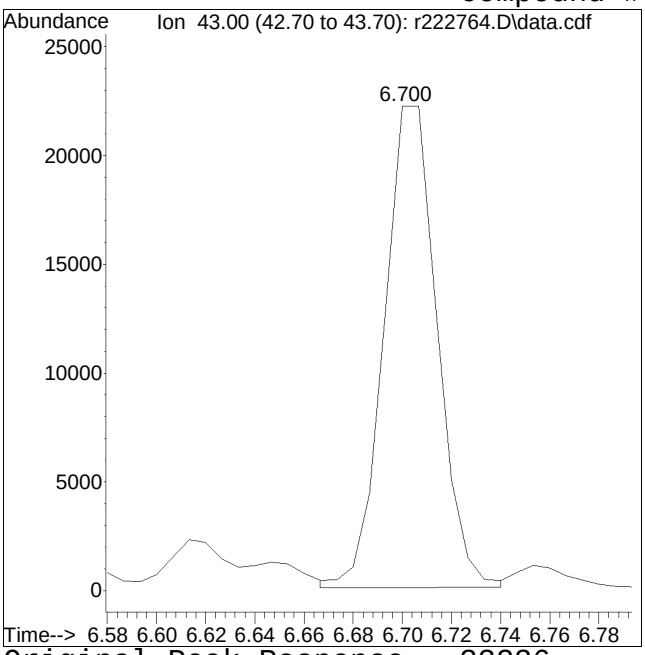
Manual Peak Response = 120722 M6

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

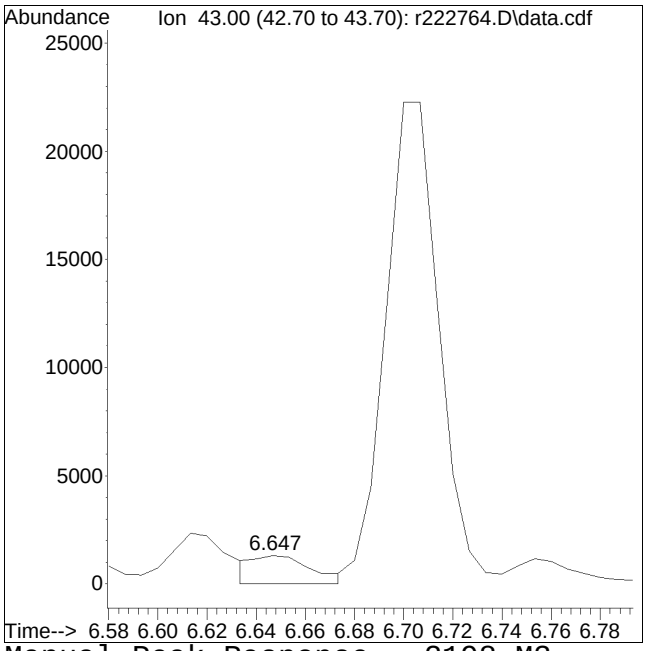
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222764.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:7: 3 Instrument :
Sample : L2409206-07,3,250,250 Quant Date : 3/2/2024 8:06 am

Compound #72: 2-hexanone



Original Peak Response = 33236



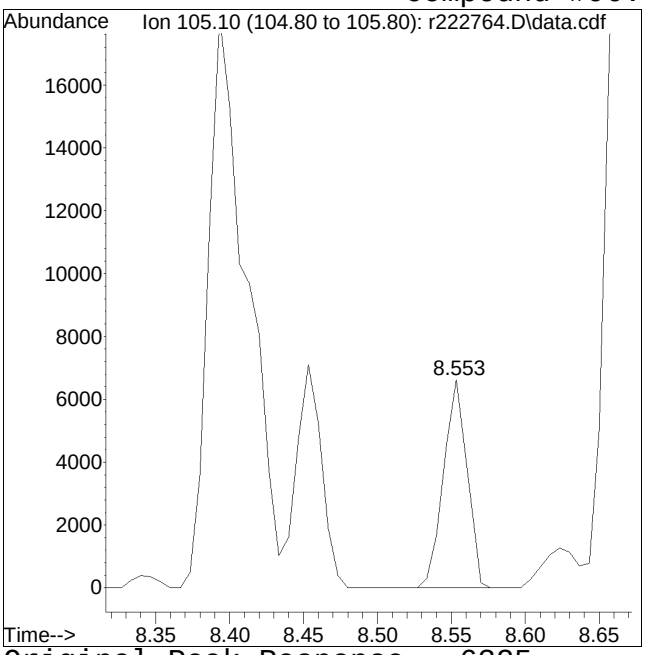
Manual Peak Response = 2198 M3

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

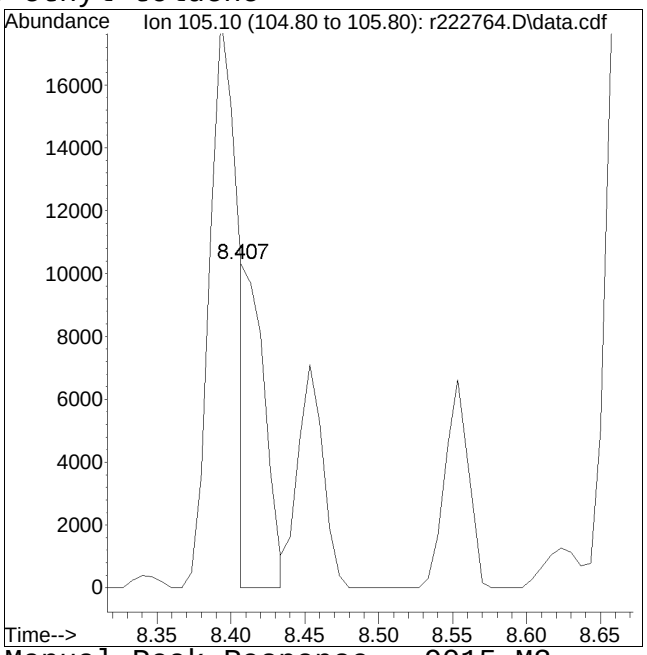
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222764.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:7: 3 Instrument :
Sample : L2409206-07,3,250,250 Quant Date : 3/2/2024 8:06 am

Compound #96: 4-ethyl toluene



Original Peak Response = 6325



Manual Peak Response = 9015 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222766.D
Acq On : 1 Mar 2024 8:26 PM
Operator : AIRLAB22:BJB
Sample : L2409206-09,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:04 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.437	49	227044	10.000	ppbV	-0.01
Standard Area = 199252			Recovery = 113.95%			
43) 1,4-difluorobenzene	5.363	114	709753	10.000	ppbV	-0.01
Standard Area = 623148			Recovery = 113.90%			
67) chlorobenzene-D5	7.333	54	79940	10.000	ppbV	-0.01
Standard Area = 82823			Recovery = 96.52%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.195	85	6612	0.362	ppbV	100
6) chloromethane	2.295	50	5258	0.530	ppbV	98
7) Freon-114	2.360		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	2.485		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.745	31	54028	14.815	ppbV	98
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.965	43	65317M6	8.942	ppbV	
21) trichlorofluoromethane	3.049	101	2282	0.234	ppbV	97
22) isopropyl alcohol	3.073	45	23321	1.926	ppbV	100
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	3.365	59	5566	0.204	ppbV #	84
28) methylene chloride	3.400	49	9749	0.542	ppbV	94
29) 3-chloropropene	3.405		0	N.D.		
30) carbon disulfide	3.545	76	10251	0.205	ppbV #	84
31) Freon 113	3.525	101	1755	0.064	ppbV	94
32) trans-1,2-dichloroethene	3.857		0	N.D.		
33) 1,1-dichloroethane	3.950		0	N.D.		
34) MTBE	3.943		0	N.D.		
36) 2-butanone	4.143	43	7305	0.198	ppbV	98
37) cis-1,2-dichloroethene	4.357		0	N.D.		
38) Ethyl Acetate	4.357		0	N.D.		
39) chloroform	4.497	83	44585	1.713	ppbV	98
40) Tetrahydrofuran	4.697	42	14578	0.621	ppbV	99
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	4.457	57	4382	0.175	ppbV #	6

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222766.D
Acq On : 1 Mar 2024 8:26 PM
Operator : AIRLAB22:BJB
Sample : L2409206-09,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:04 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	5.197	78	8684	0.164	ppbV	98
52) carbon tetrachloride	0.000		0	N.D.	d	
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	5.670	83	1196	0.052	ppbV #	82
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	5.690		0	N.D.		
60) 2,2,4-trimethylpentane	5.710	57	8271	0.103	ppbV #	84
62) heptane	5.830	43	7648	0.242	ppbV	98
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	6.107	43	2902	0.082	ppbV	97
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	6.493		0	N.D.		
68) toluene	6.533	91	67667	1.015	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.		
78) tetrachloroethene	7.040	166	2278	0.088	ppbV	98
80) chlorobenzene	7.353	112	4964	0.096	ppbV	97
81) ethylbenzene	7.520	91	28573	0.354	ppbV	99
83) m+p-xylene	7.593	91	86150	1.372	ppbV	97
84) bromoform	0.000		0	N.D.		
85) styrene	7.767	104	6593	0.117	ppbV	96
86) 1,1,2,2-tetrachloroethane	7.787		0	N.D.		
87) o-xylene	7.820	91	30039	0.490	ppbV	95
96) 4-ethyl toluene	8.407	105	10458M6	0.115	ppbV	
97) 1,3,5-trimethylbenzene	8.453	105	8698	0.117	ppbV #	97
99) 1,2,4-trimethylbenzene	8.663	105	34632	0.489	ppbV #	57
101) Benzyl Chloride	8.803		0	N.D.		
102) 1,3-dichlorobenzene	8.783		0	N.D.		
103) 1,4-dichlorobenzene	8.783		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\Airlab22\2024\03\0301T\
Data File : r222766.D
Acq On : 1 Mar 2024 8:26 PM
Operator : AIRLAB22:BJB
Sample : L2409206-09,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:04 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

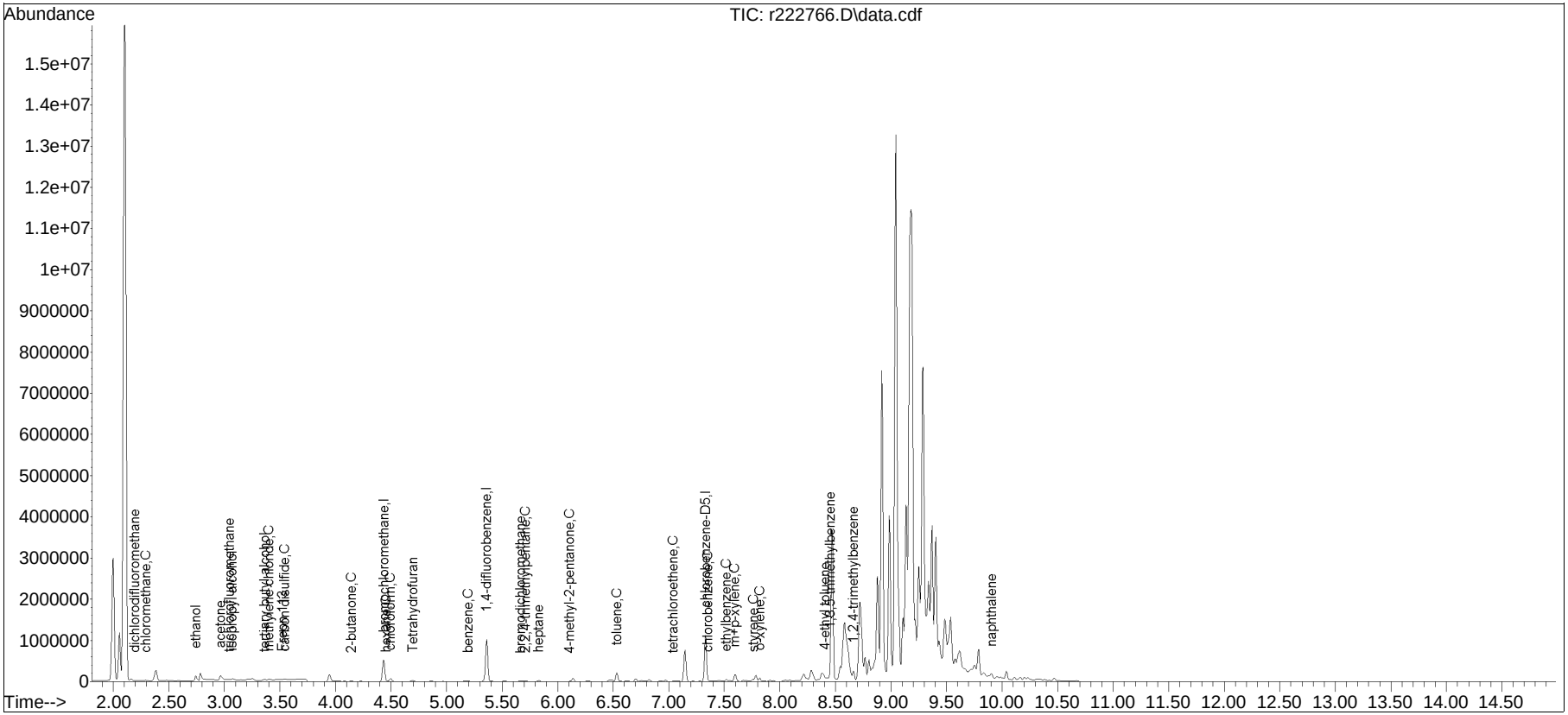
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

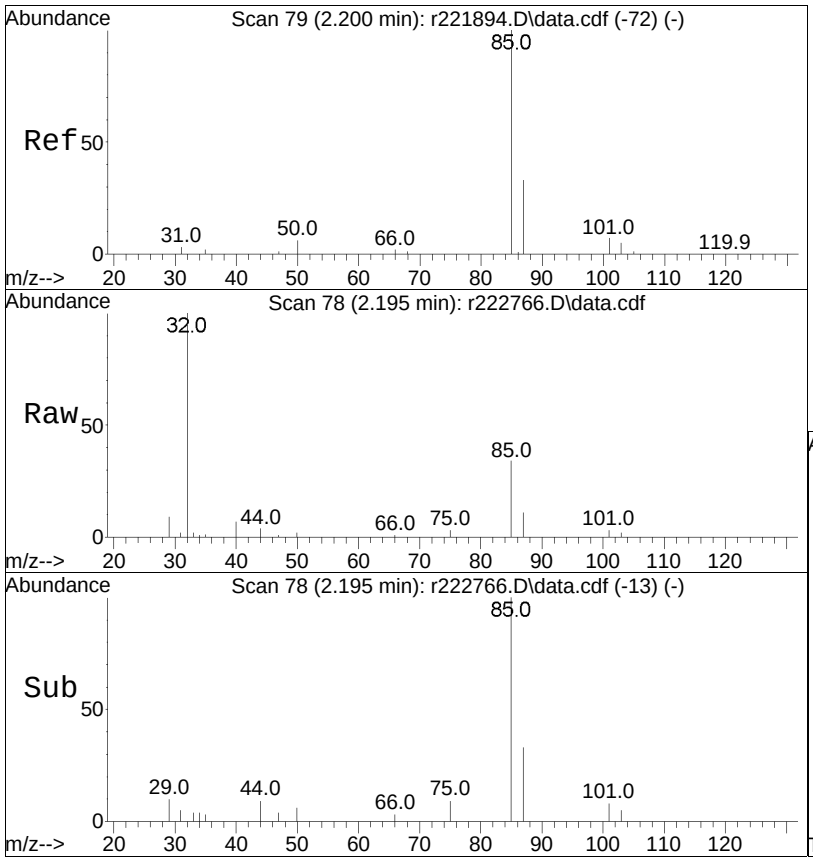
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : TO15-NY+Naphthalene - .b22\2024\03\0301T\r222756.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222766.D
Acq On : 1 Mar 2024 8:26 PM
Operator : AIRLAB22:BJB
Sample : L2409206-09,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:04 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

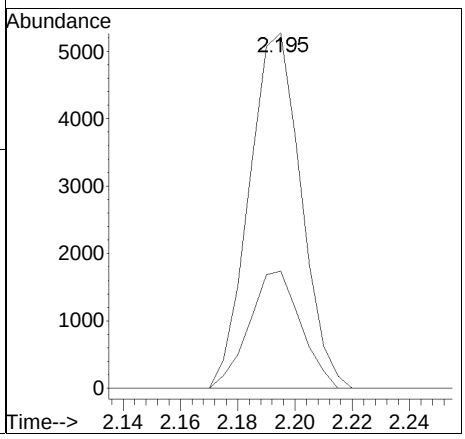


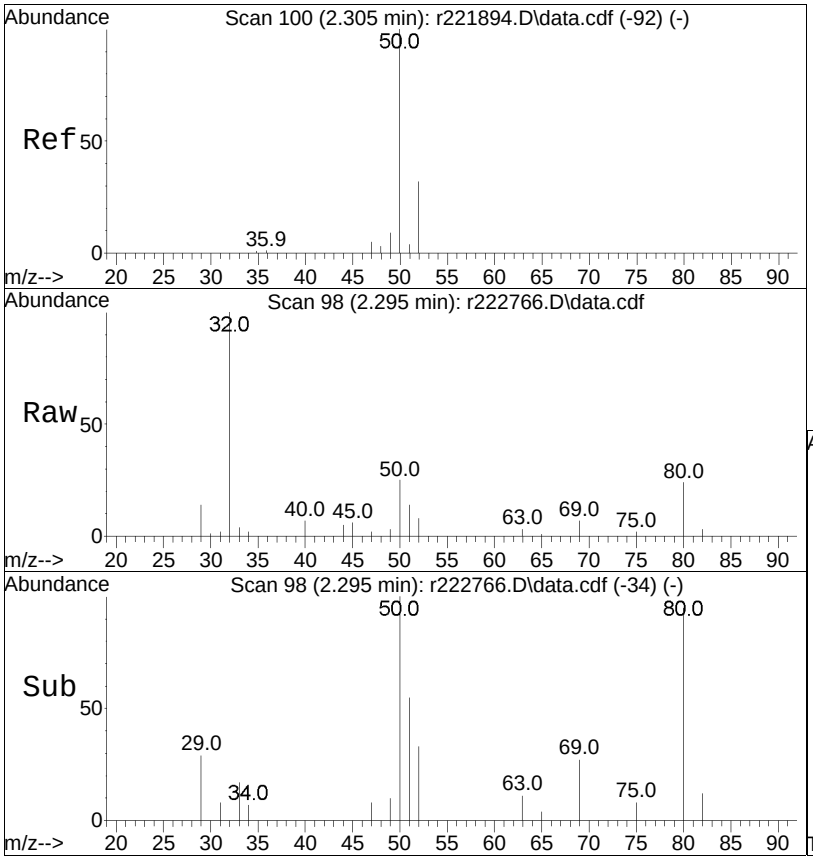


#5
dichlorodifluoromethane
Concen: 0.36 ppbV
RT: 2.195 min Scan# 78
Delta R.T. -0.005 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 85 Resp: 6612

Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.3	39.5

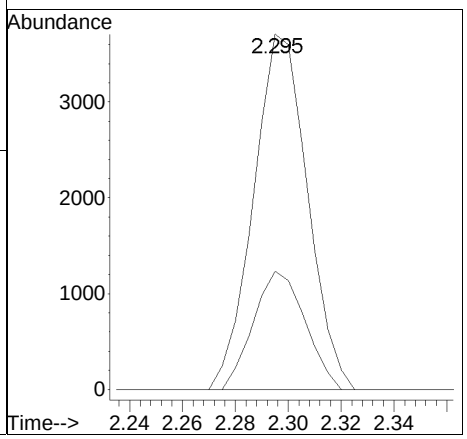


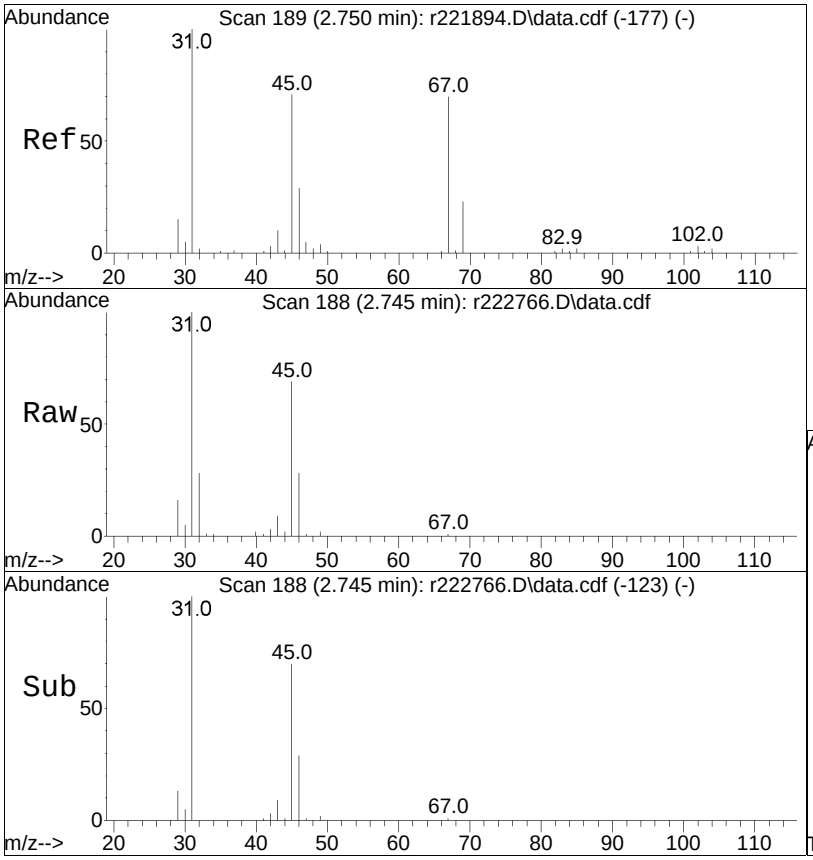


#6
chloromethane
Concen: 0.53 ppbV
RT: 2.295 min Scan# 98
Delta R.T. -0.010 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 50 Resp: 5258

Ion	Ratio	Lower	Upper
50	100		
52	33.3	25.5	38.3

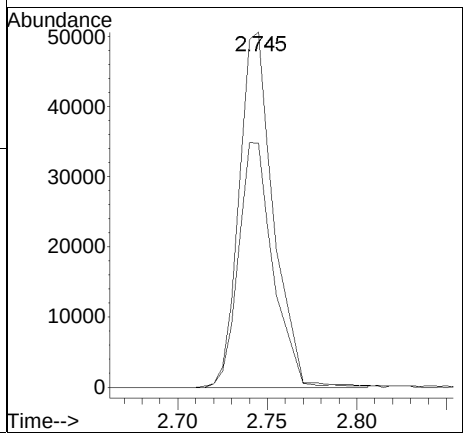


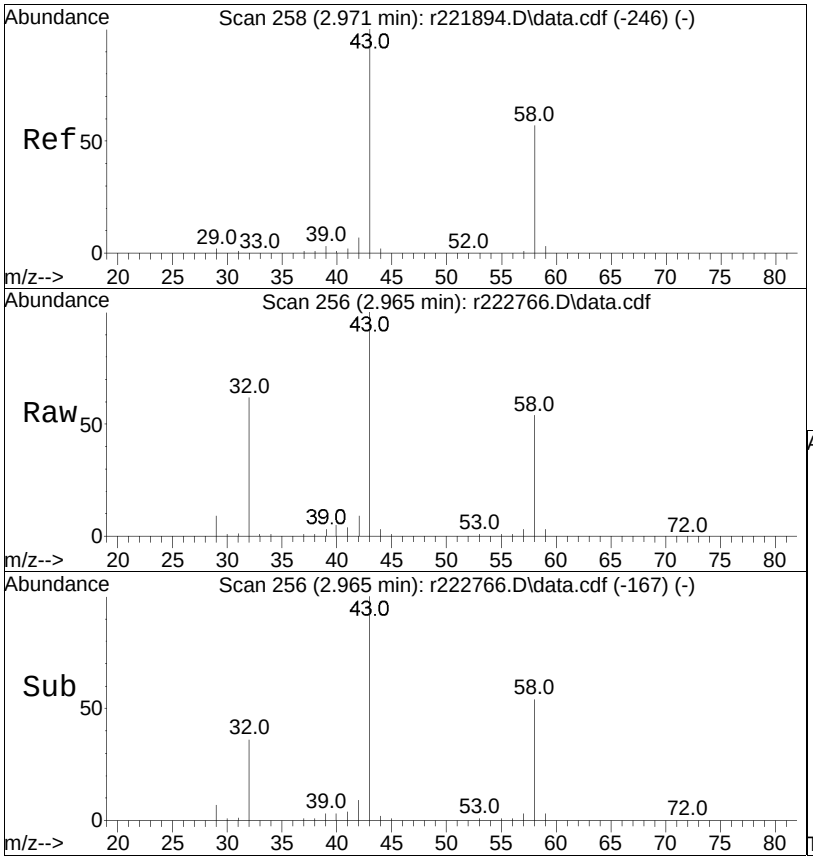


#15
ethanol
Concen: 14.82 ppbV
RT: 2.745 min Scan# 188
Delta R.T. -0.005 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 31 Resp: 54028

Ion	Ratio	Lower	Upper
31	100		
45	68.8	56.6	84.8

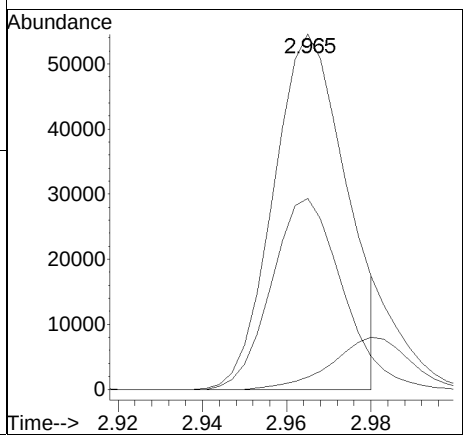


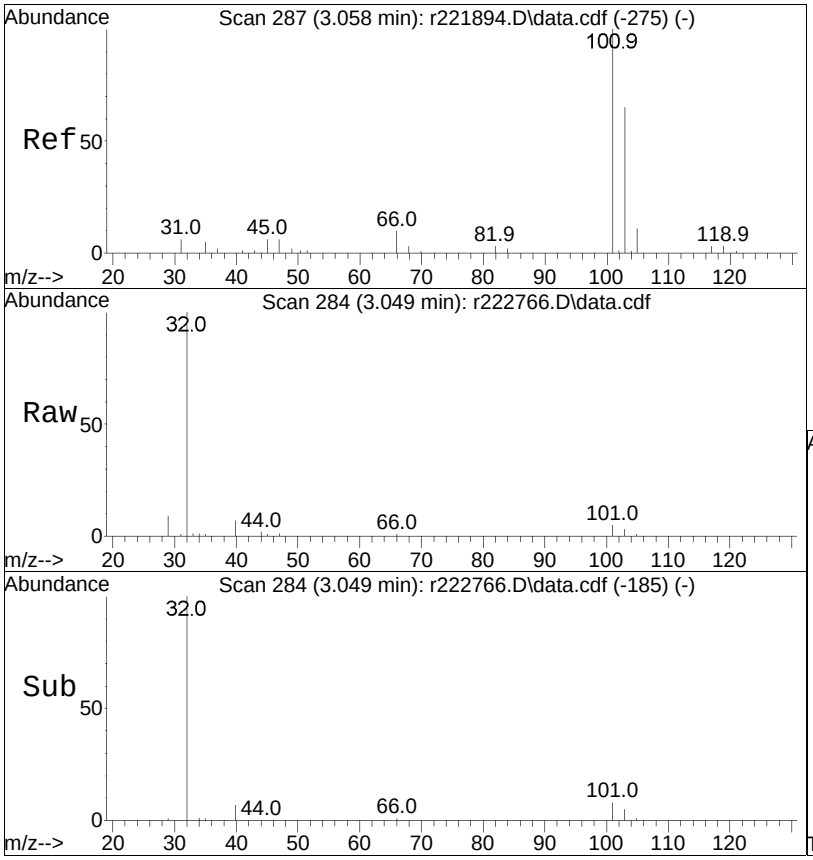


#19
acetone
Concen: 8.94 ppbV m
RT: 2.965 min Scan# 256
Delta R.T. -0.006 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 43 Resp: 65317

Ion	Ratio	Lower	Upper
43	100		
58	53.7	45.5	68.3
57	3.5	1.0	1.6#

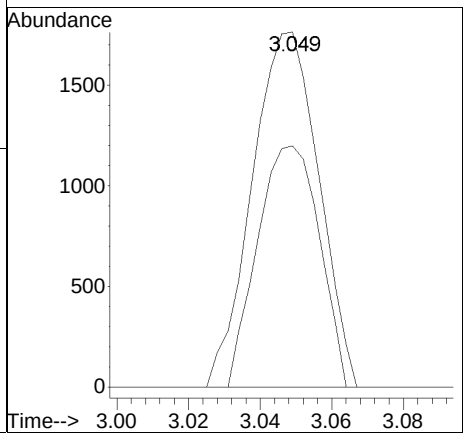


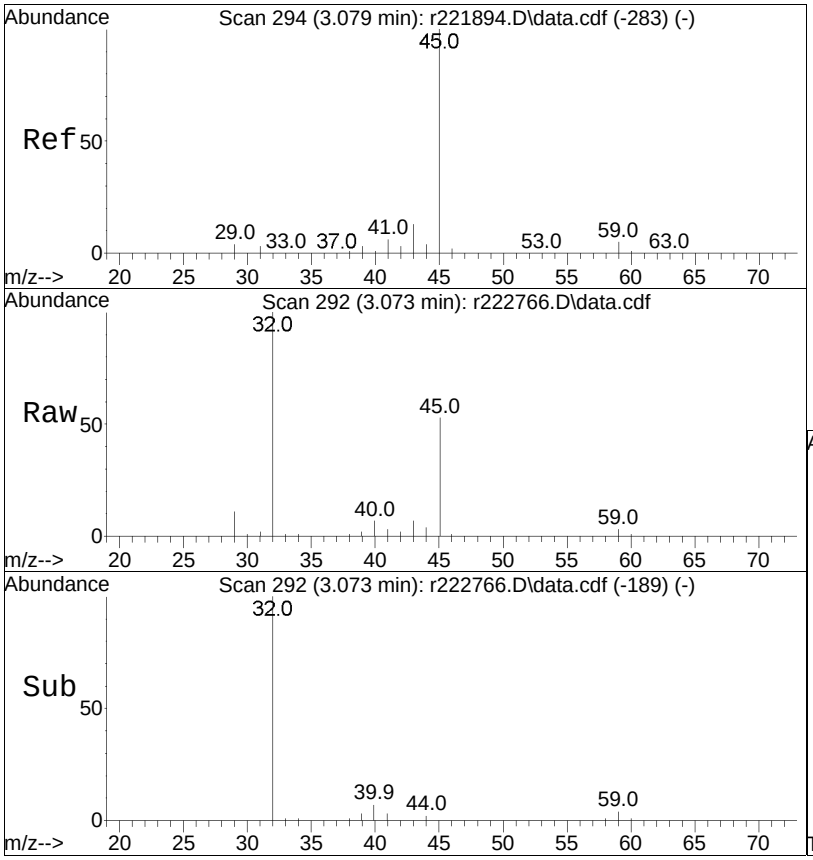


#21
trichlorofluoromethane
Concen: 0.23 ppbV
RT: 3.049 min Scan# 284
Delta R.T. -0.009 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion:101 Resp: 2282

Ion	Ratio	Lower	Upper
101	100		
103	68.0	52.2	78.4

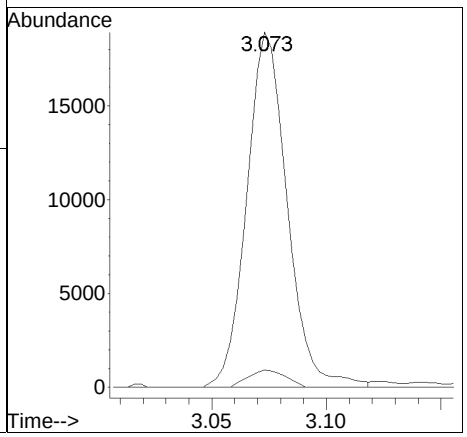


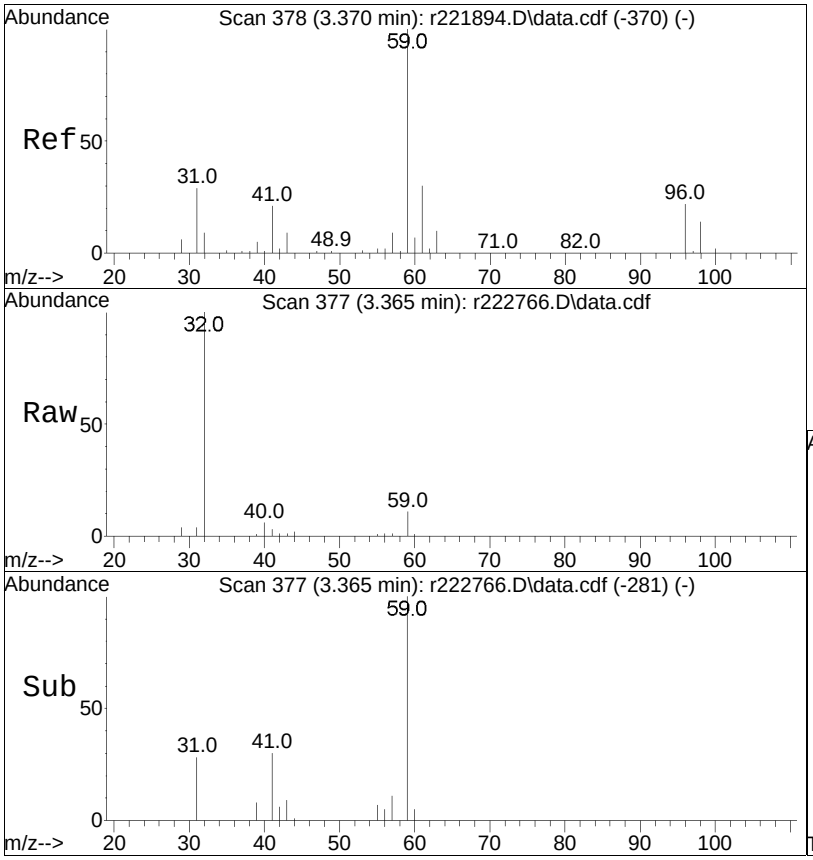


#22
isopropyl alcohol
Concen: 1.93 ppbV
RT: 3.073 min Scan# 292
Delta R.T. -0.006 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 45 Resp: 23321

Ion	Ratio	Lower	Upper
45	100		
59	4.9	4.0	6.0

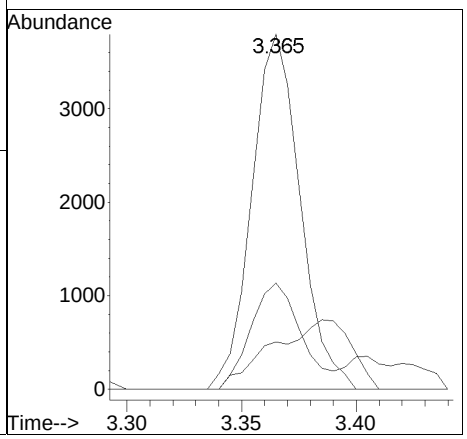


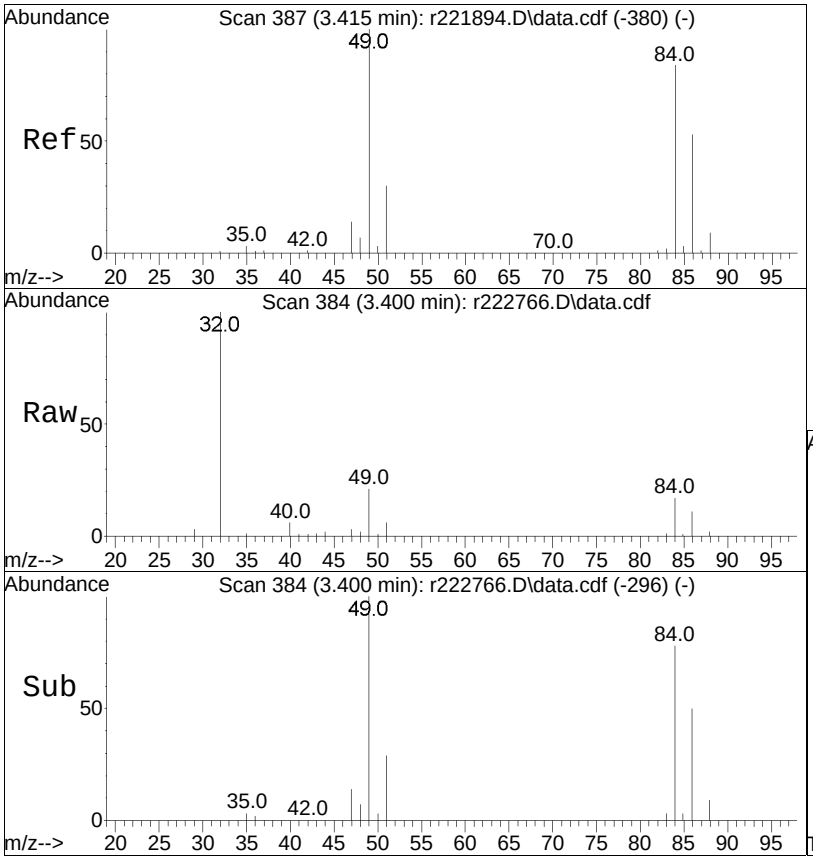


#27
tertiary butyl alcohol
Concen: 0.20 ppbV
RT: 3.365 min Scan# 377
Delta R.T. -0.005 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 59 Resp: 5566

Ion	Ratio	Lower	Upper
59	100		
41	29.9	16.9	25.3#
43	13.4	7.5	11.3#

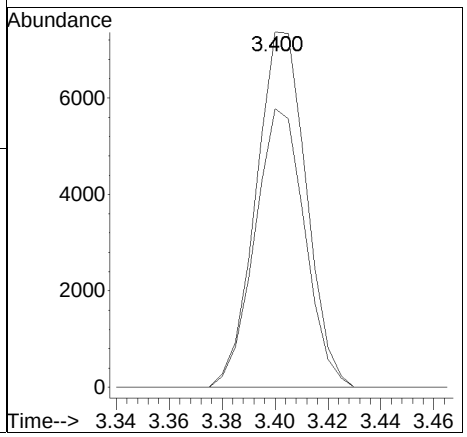


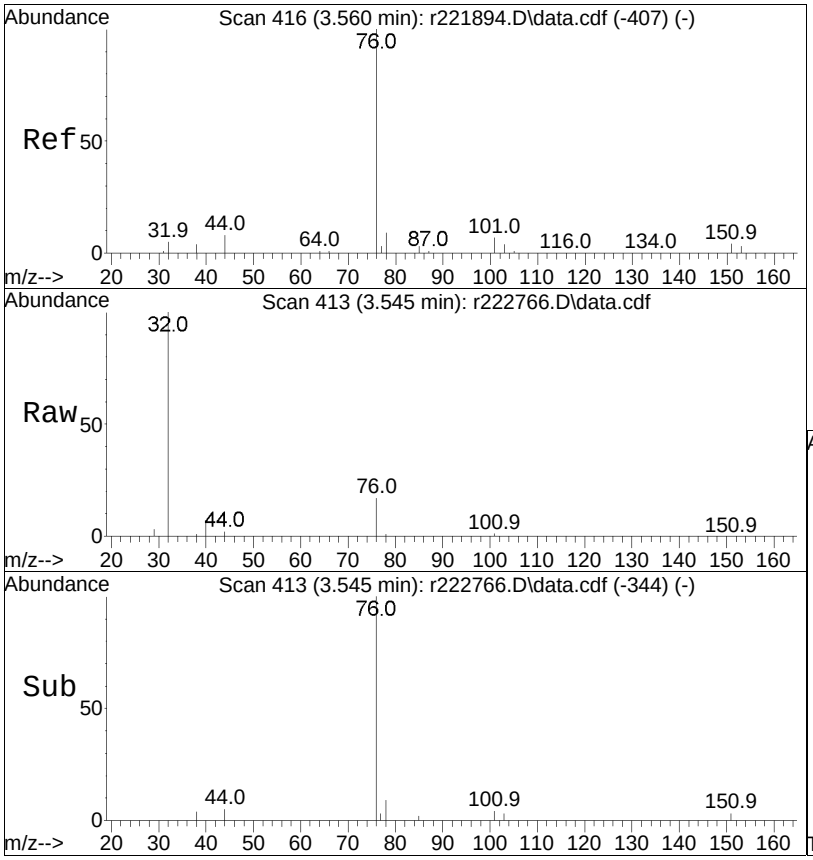


#28
methylene chloride
Concen: 0.54 ppbV
RT: 3.400 min Scan# 384
Delta R.T. -0.015 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 49 Resp: 9749

Ion	Ratio	Lower	Upper
49	100		
84	78.5	67.2	100.8

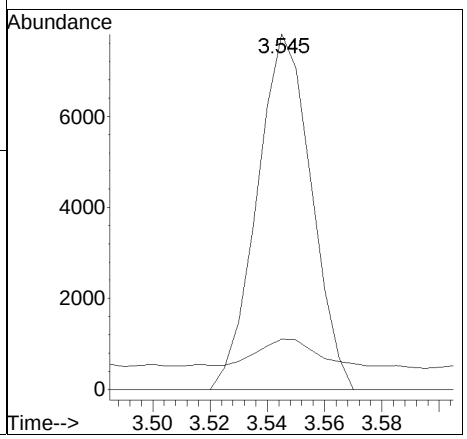


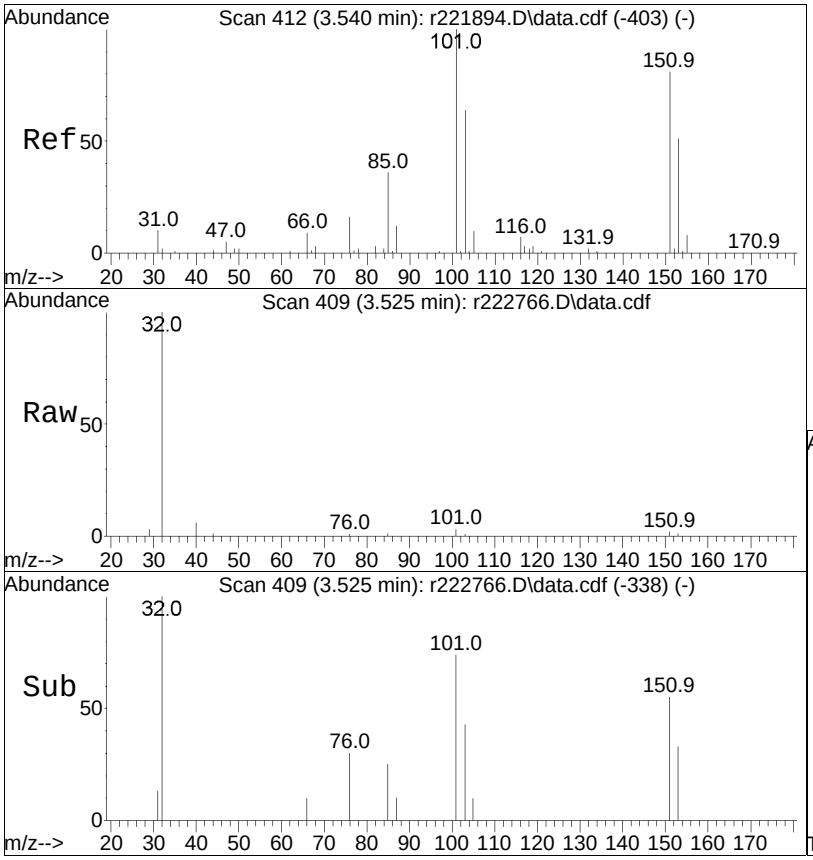


#30
carbon disulfide
Concen: 0.21 ppbV
RT: 3.545 min Scan# 413
Delta R.T. -0.015 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 76 Resp: 10251

Ion	Ratio	Lower	Upper
76	100		
44	14.2	6.8	10.2#

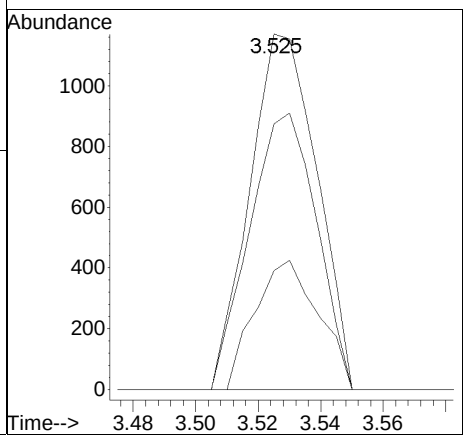


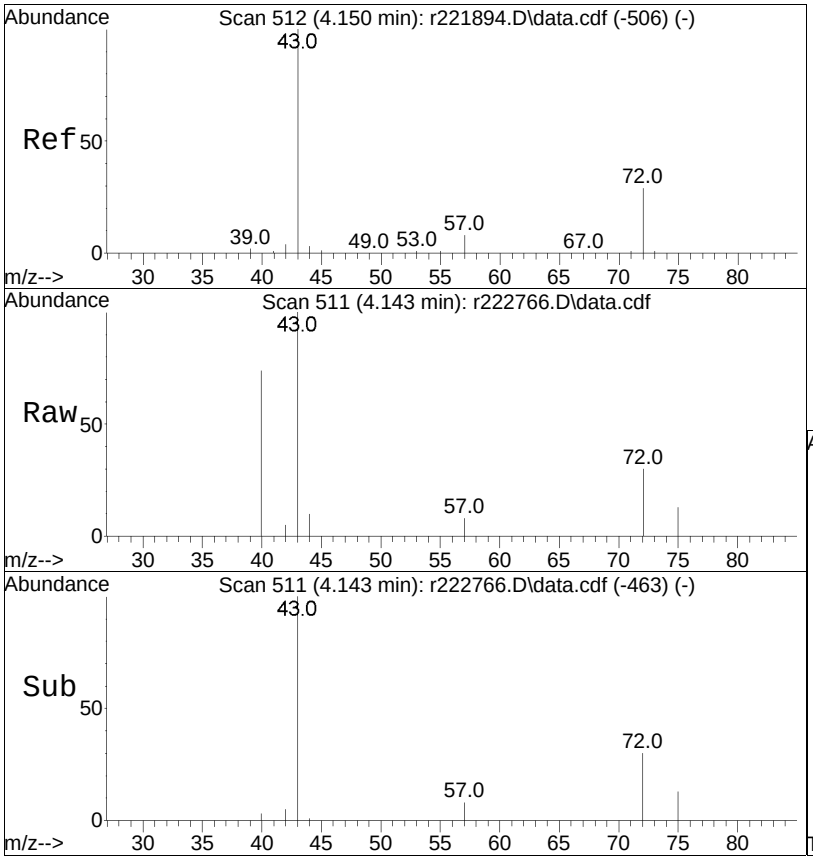


#31
Freon 113
Concen: 0.06 ppbV
RT: 3.525 min Scan# 409
Delta R.T. -0.015 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion:101 Resp: 1755

Ion	Ratio	Lower	Upper
101	100		
85	33.4	28.6	43.0
151	74.7	64.6	97.0

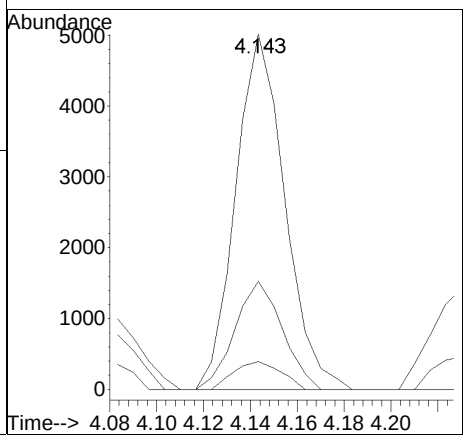


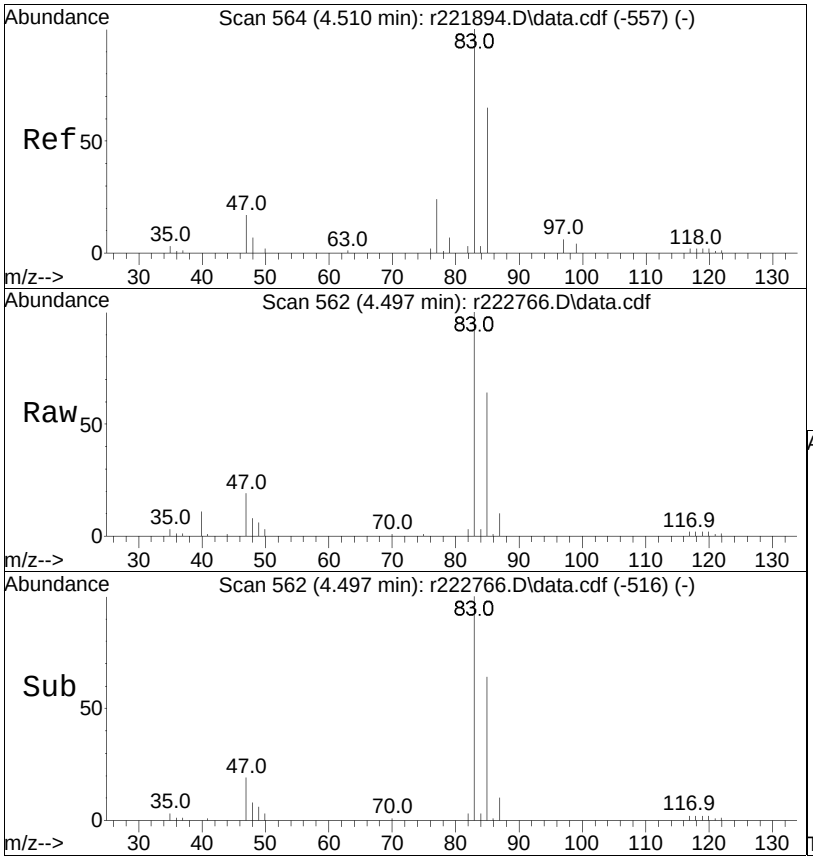


#36
2-butanone
Concen: 0.20 ppbV
RT: 4.143 min Scan# 511
Delta R.T. -0.007 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 43 Resp: 7305

Ion	Ratio	Lower	Upper
43	100		
72	30.4	23.0	34.6
57	7.8	6.3	9.5

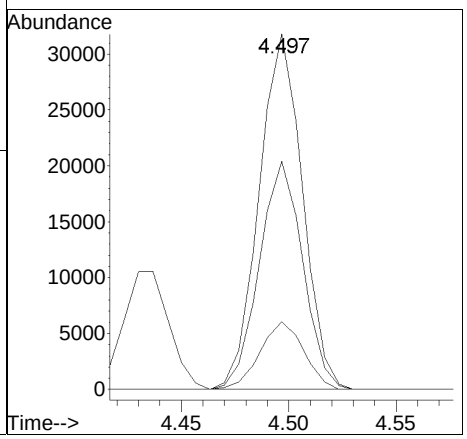


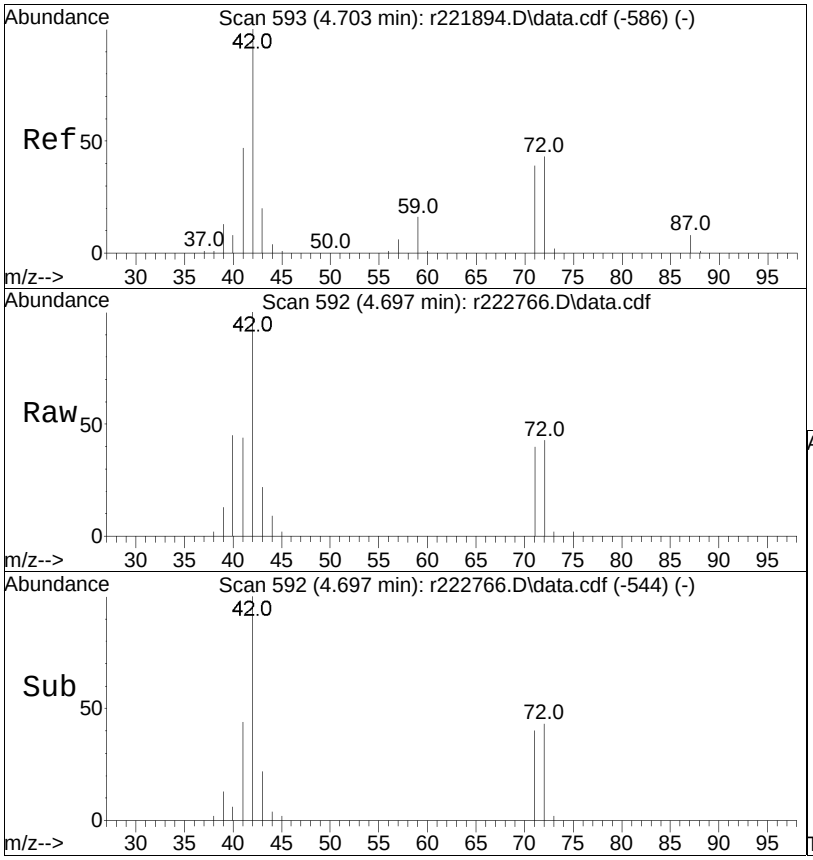


#39
chloroform
Concen: 1.71 ppbV
RT: 4.497 min Scan# 562
Delta R.T. -0.013 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 83 Resp: 44585

Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.6	79.0
47	19.1	15.1	22.7

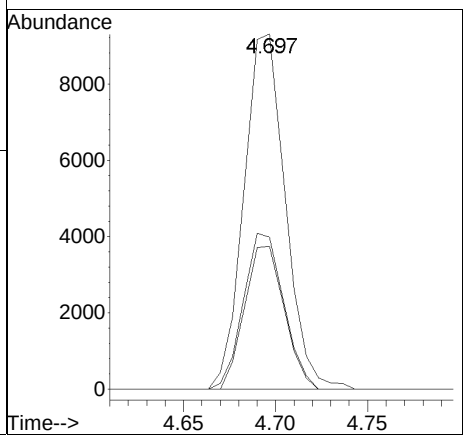


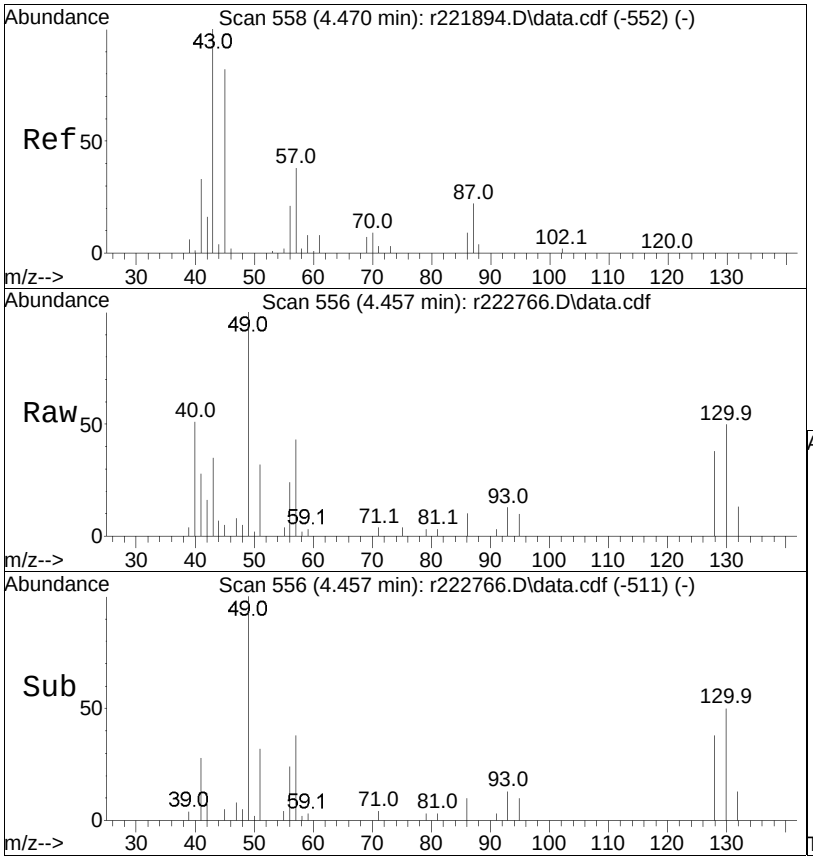


#40
Tetrahydrofuran
Concen: 0.62 ppbV
RT: 4.697 min Scan# 592
Delta R.T. -0.007 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 42 Resp: 14578

Ion	Ratio	Lower	Upper
42	100		
71	40.3	31.4	47.2
72	42.9	34.3	51.5

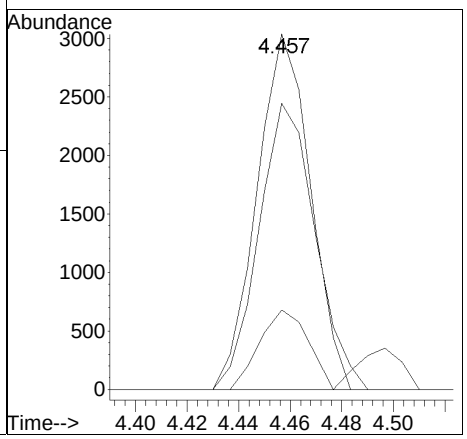


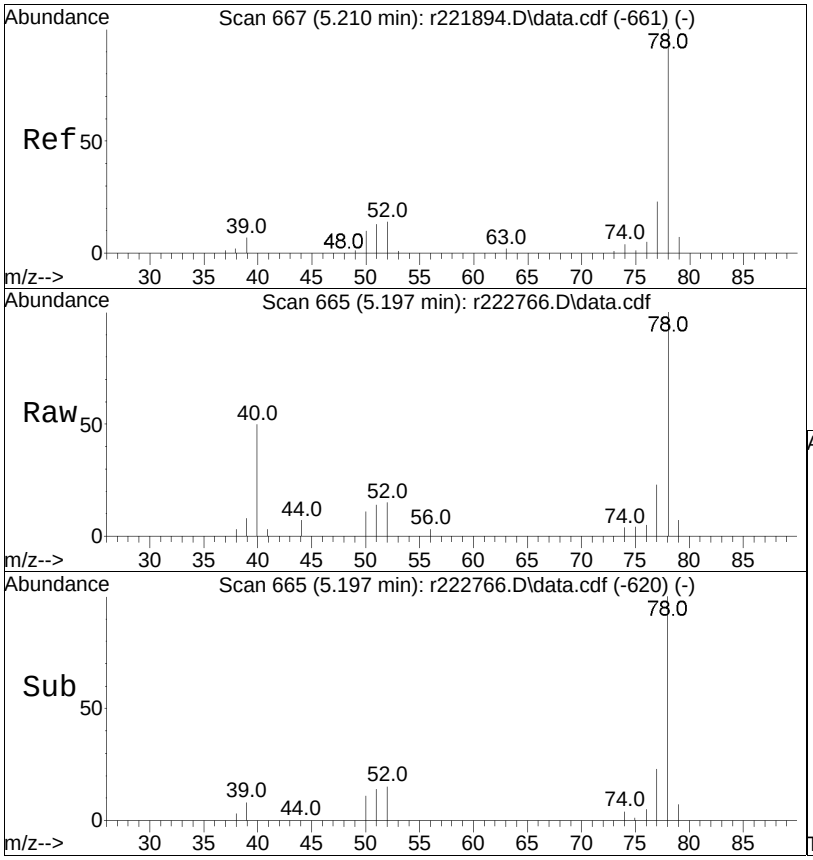


#44
hexane
Concen: 0.17 ppbV
RT: 4.457 min Scan# 556
Delta R.T. -0.013 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 57 Resp: 4382

Ion	Ratio	Lower	Upper
57	100		
43	80.5	210.8	316.2#
86	22.4	17.9	26.9

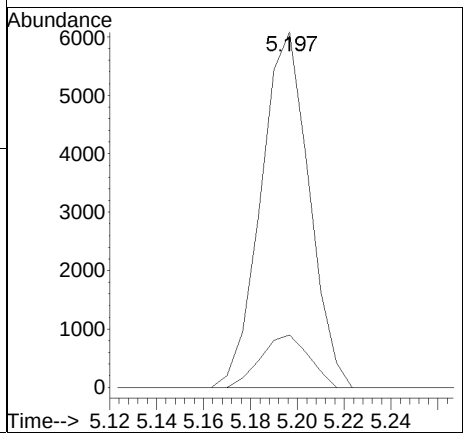


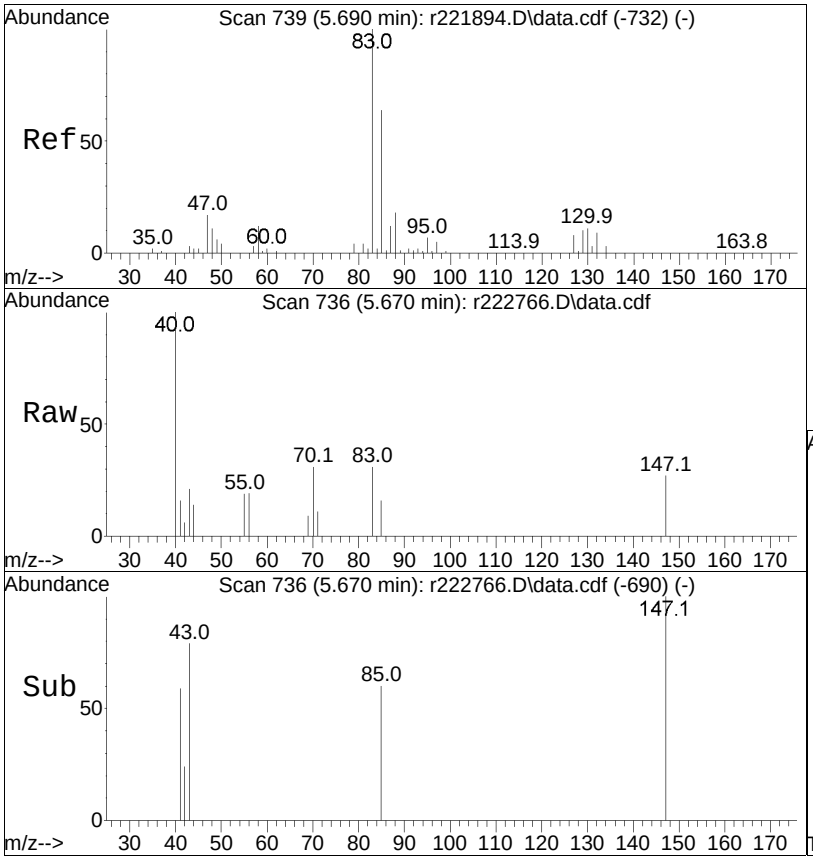


#50
benzene
Concen: 0.16 ppbV
RT: 5.197 min Scan# 665
Delta R.T. -0.013 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 78 Resp: 8684

Ion	Ratio	Lower	Upper
78	100		
52	14.8	11.3	16.9

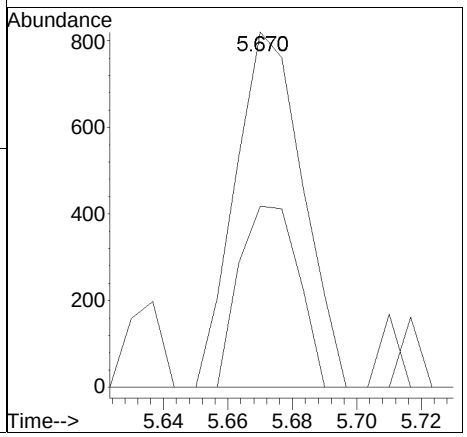


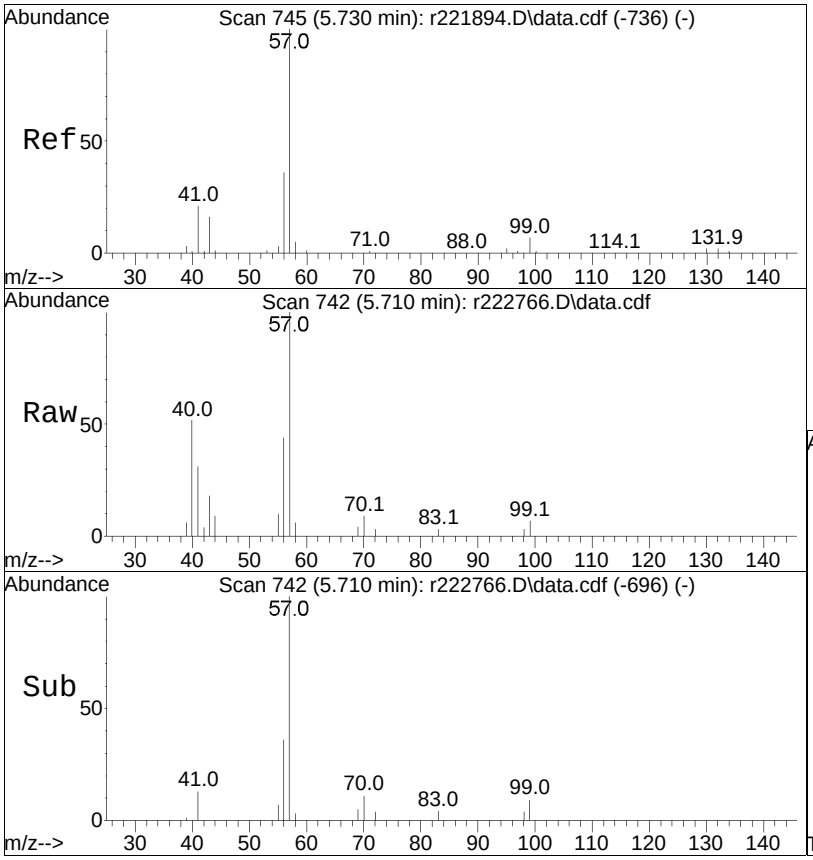


#57
bromodichloromethane
Concen: 0.05 ppbV
RT: 5.670 min Scan# 736
Delta R.T. -0.020 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 83 Resp: 1196

Ion	Ratio	Lower	Upper
83	100		
85	51.0	51.4	77.0#
129	0.0	8.2	12.2#

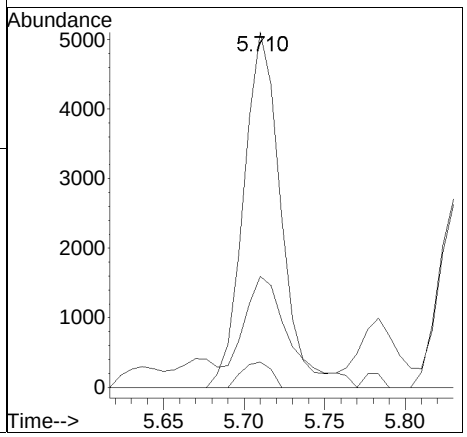


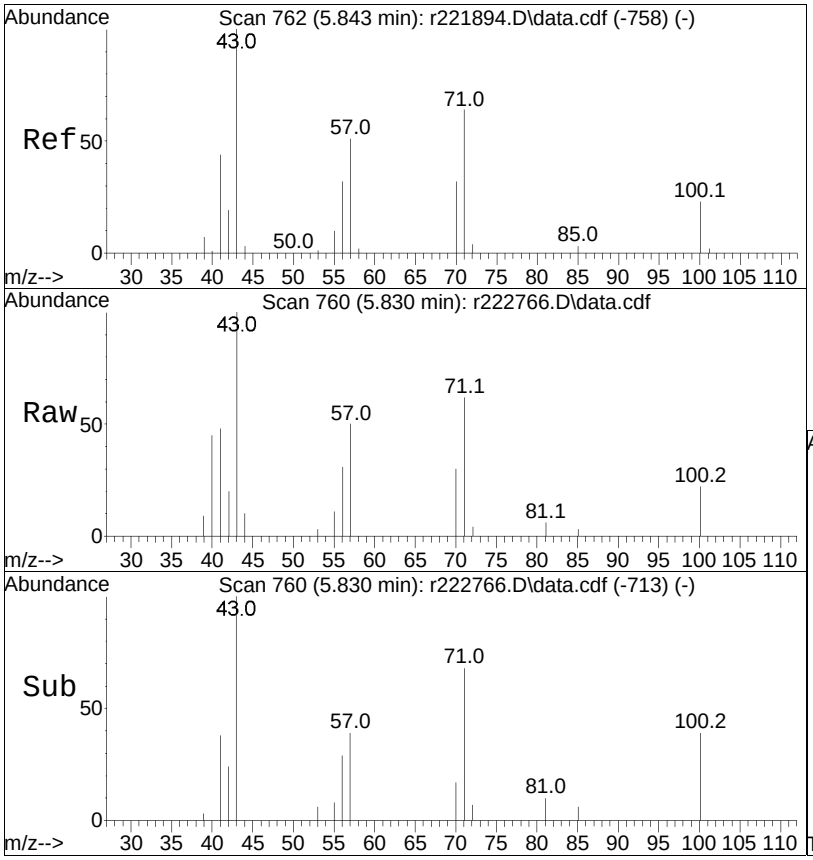


#60
2,2,4-trimethylpentane
Concen: 0.10 ppbV
RT: 5.710 min Scan# 742
Delta R.T. -0.020 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 57 Resp: 8271

Ion	Ratio	Lower	Upper
57	100		
99	7.1	5.7	8.5
41	31.3	16.9	25.3#

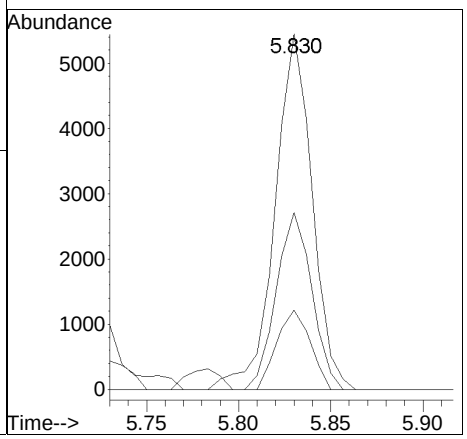


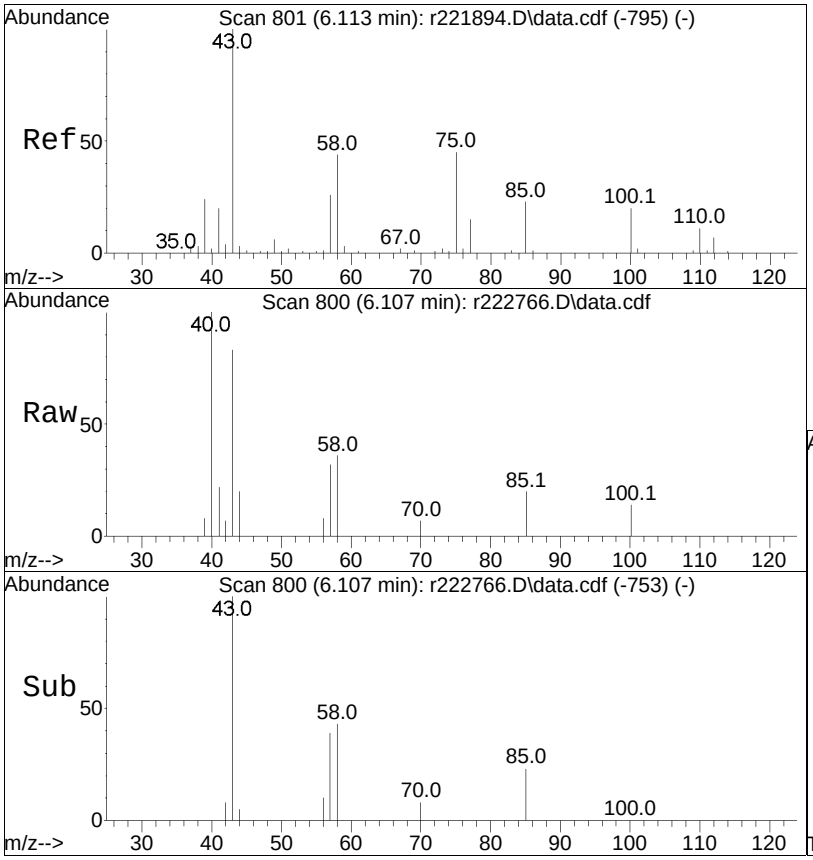


#62
heptane
Concen: 0.24 ppbV
RT: 5.830 min Scan# 760
Delta R.T. -0.013 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 43 Resp: 7648

Ion	Ratio	Lower	Upper
43	100		
57	49.8	40.4	60.6
100	22.3	19.0	28.6

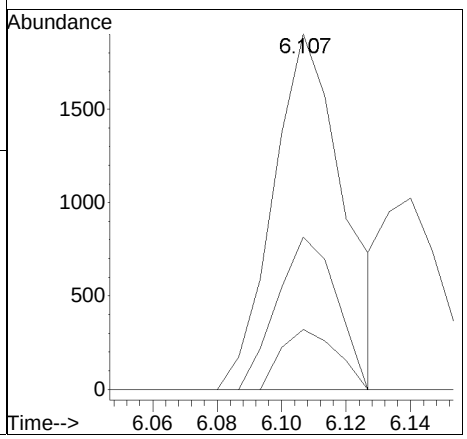


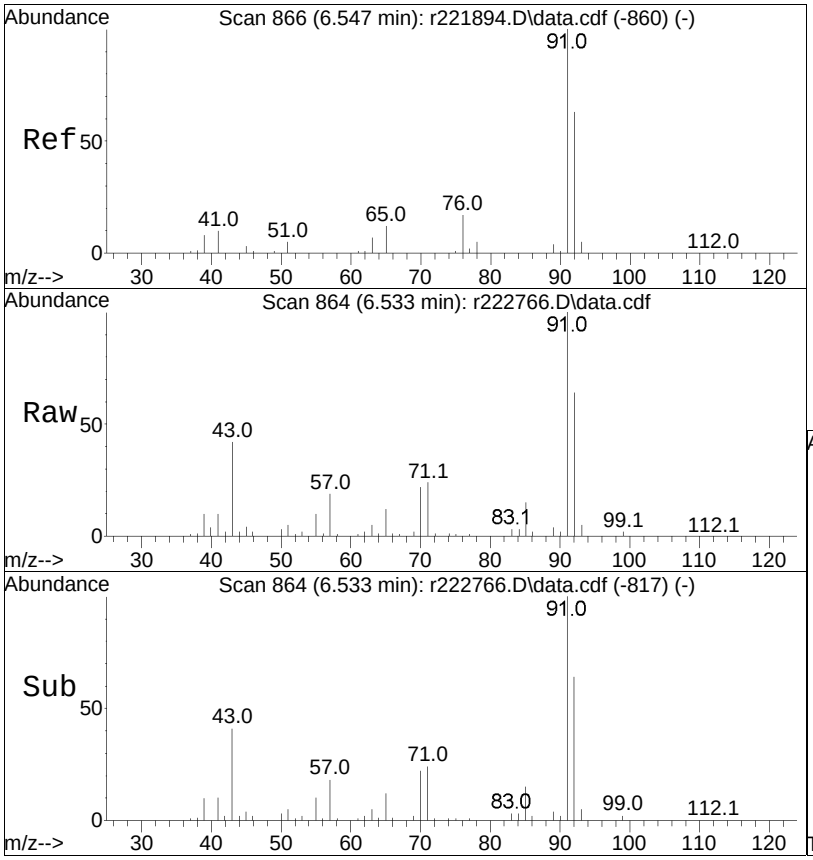


#64
4-methyl-2-pentanone
Concen: 0.08 ppbV
RT: 6.107 min Scan# 800
Delta R.T. -0.007 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 43 Resp: 2902

Ion	Ratio	Lower	Upper
43	100		
58	42.8	34.9	52.3
100	16.9	16.1	24.1

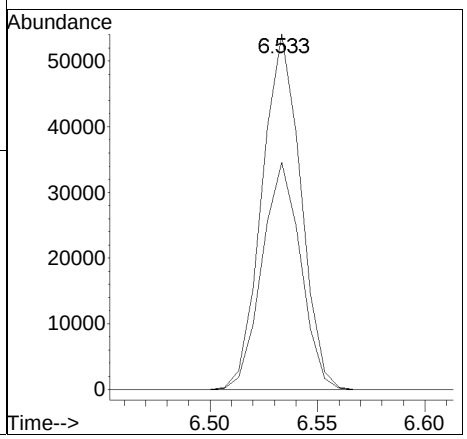


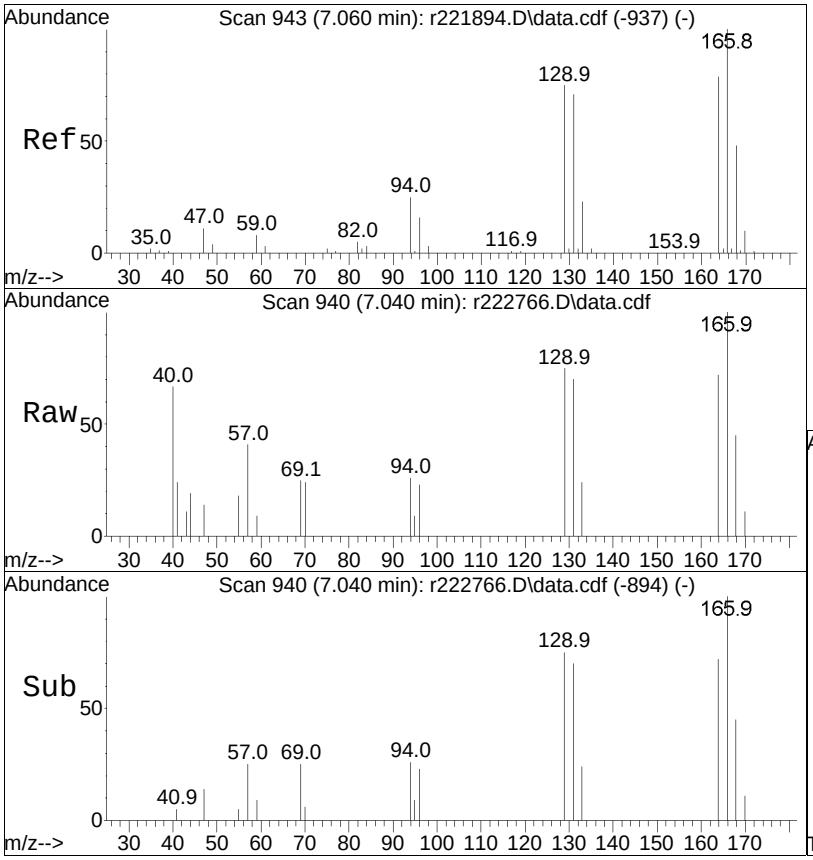


#68
toluene
Concen: 1.01 ppbV
RT: 6.533 min Scan# 864
Delta R.T. -0.013 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 91 Resp: 67667

Ion	Ratio	Lower	Upper
91	100		
92	63.9	50.7	76.1

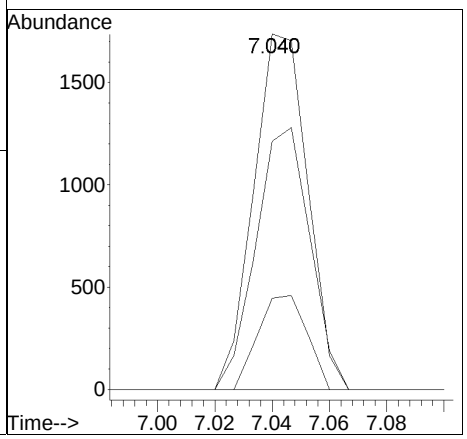


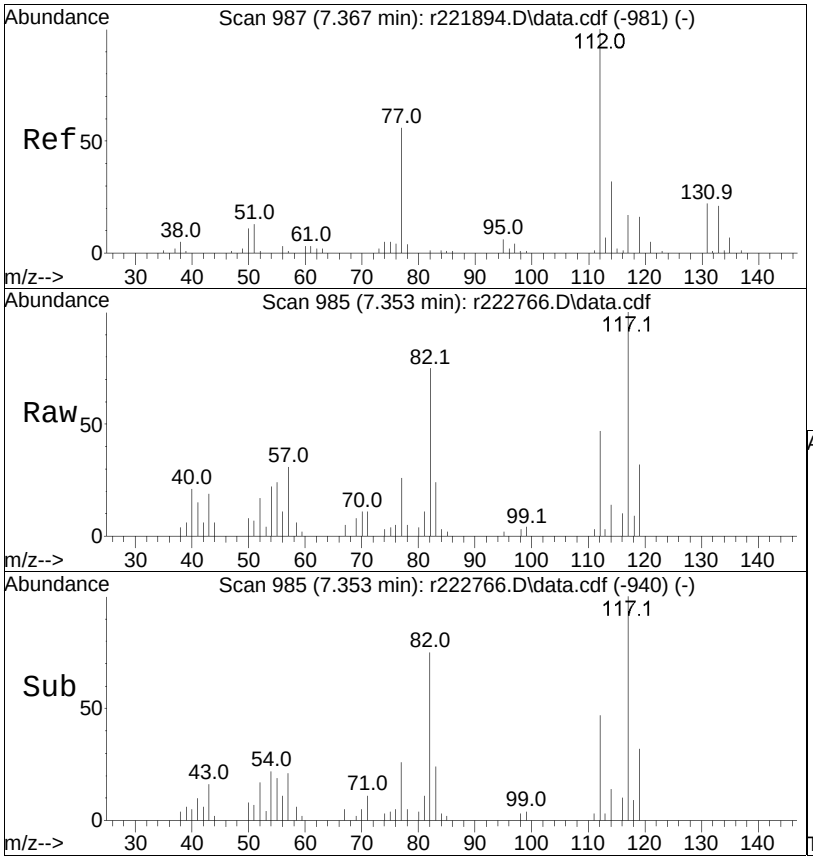


#78
tetrachloroethene
Concen: 0.09 ppbV
RT: 7.040 min Scan# 940
Delta R.T. -0.020 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion:166 Resp: 2278

Ion	Ratio	Lower	Upper
166	100		
131	69.8	56.9	85.3
94	25.7	19.8	29.8

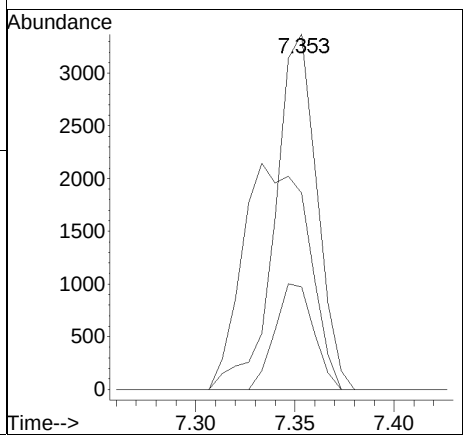


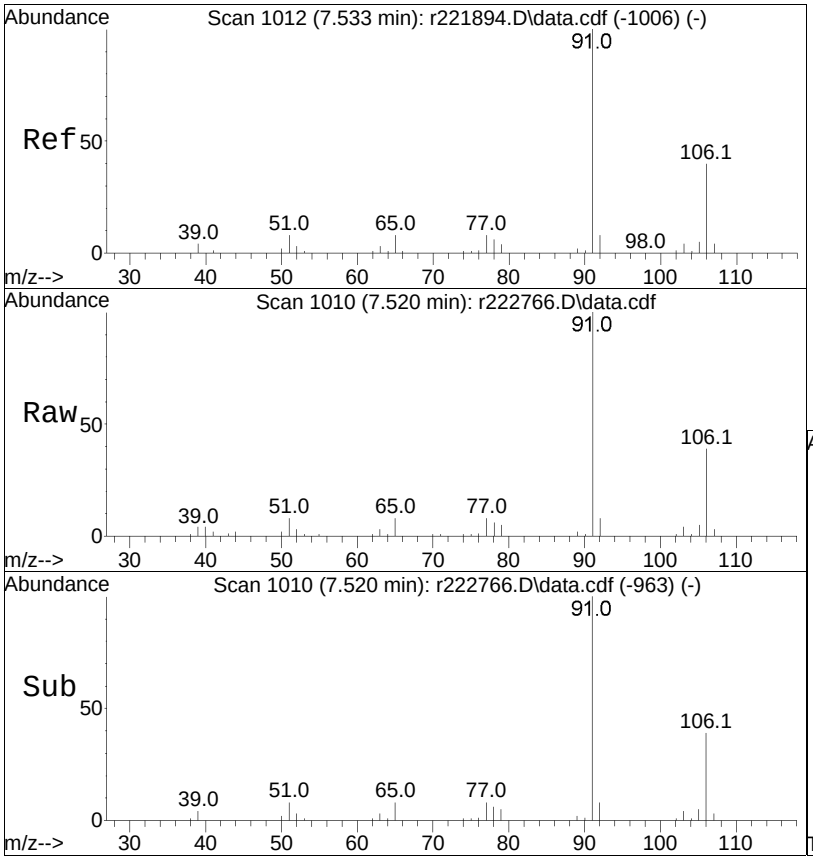


#80
chlorobenzene
Concen: 0.10 ppbV
RT: 7.353 min Scan# 985
Delta R.T. -0.013 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion:112 Resp: 4964

Ion	Ratio	Lower	Upper
112	100		
114	28.8	25.8	38.6
77	55.2	45.0	67.6

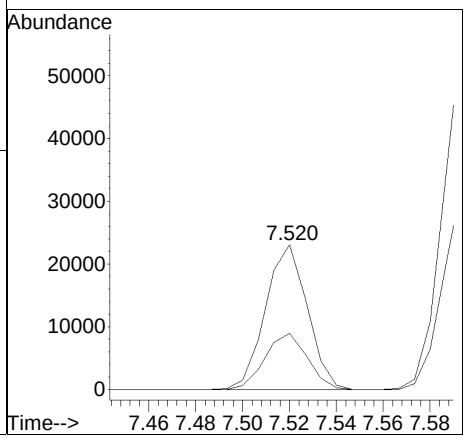


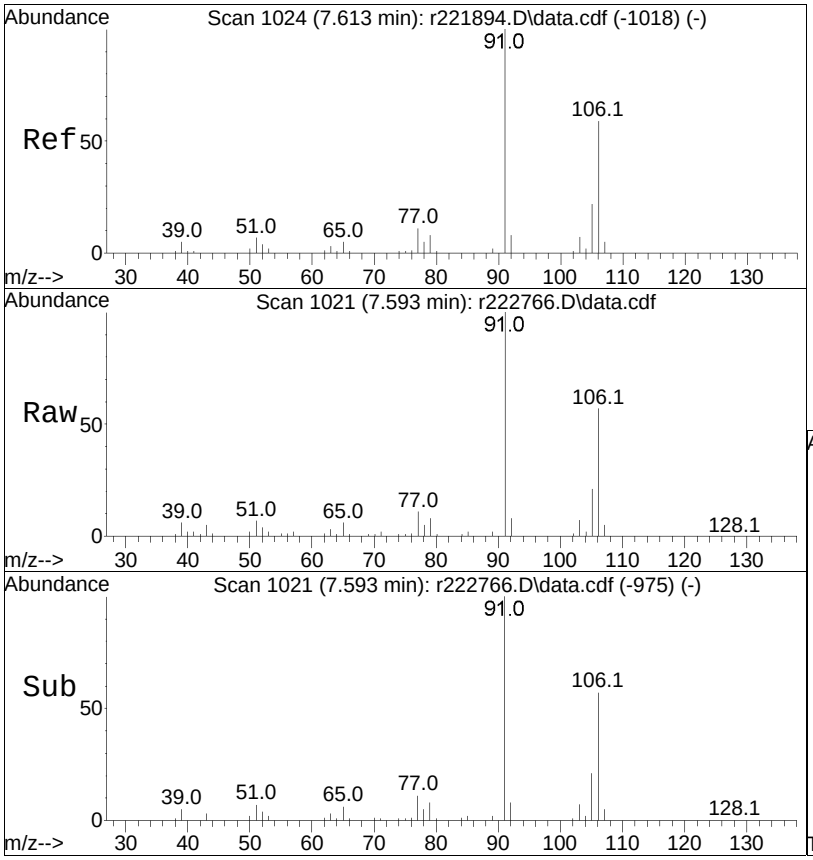


#81
ethylbenzene
Concen: 0.35 ppbV
RT: 7.520 min Scan# 1010
Delta R.T. -0.013 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 91 Resp: 28573

Ion	Ratio	Lower	Upper
91	100		
106	38.7	31.7	47.5

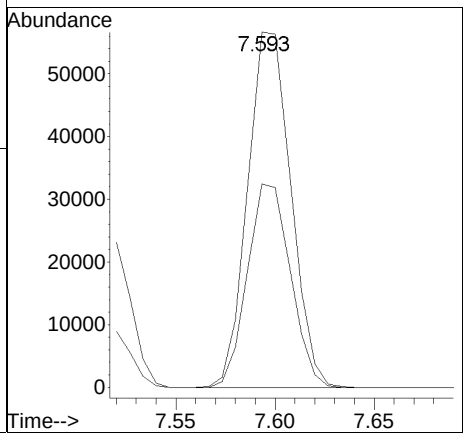


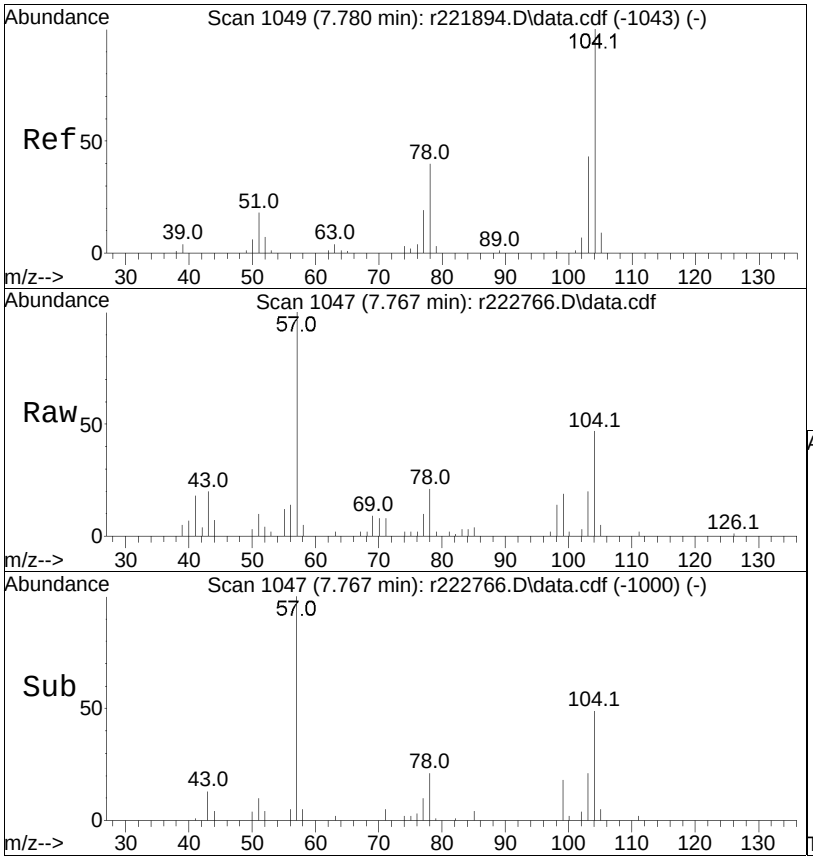


#83
m+p-xylene
Concen: 1.37 ppbV
RT: 7.593 min Scan# 1021
Delta R.T. -0.020 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 91 Resp: 86150

Ion	Ratio	Lower	Upper
91	100		
106	57.2	47.4	71.2

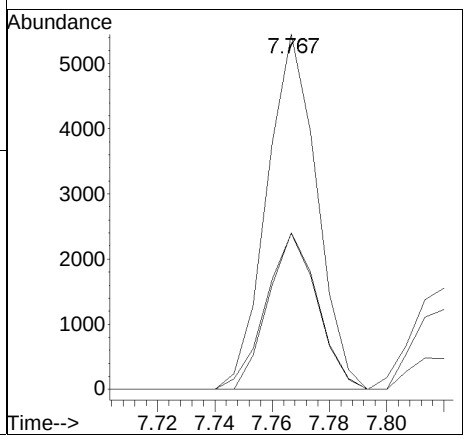


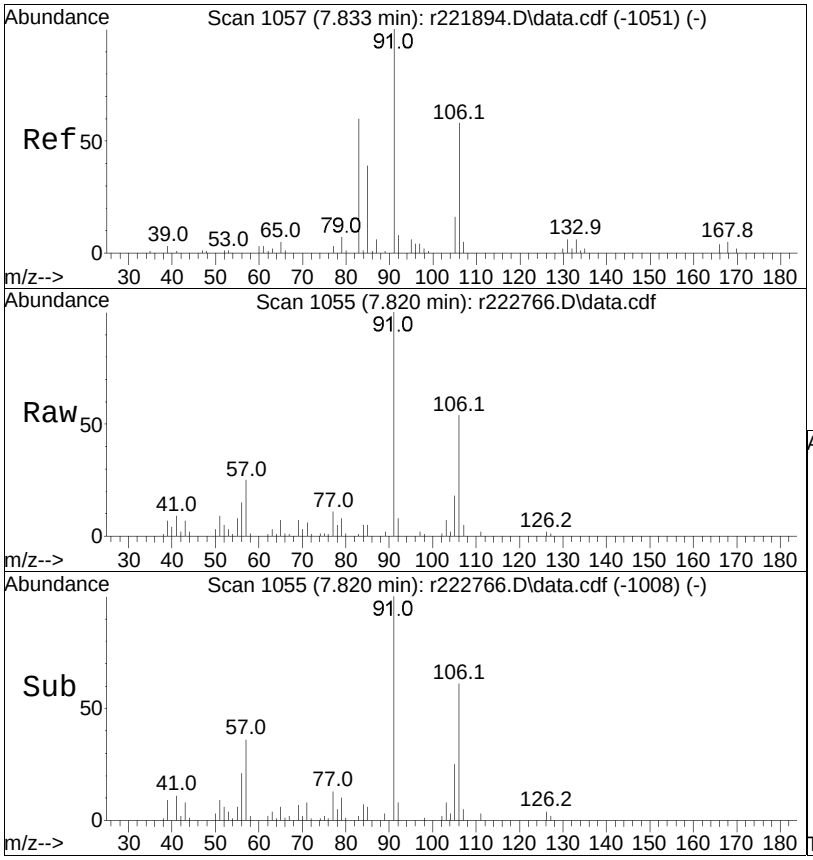


#85
styrene
Concen: 0.12 ppbV
RT: 7.767 min Scan# 1047
Delta R.T. -0.013 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion:104 Resp: 6593

Ion	Ratio	Lower	Upper
104	100		
103	43.9	34.3	51.5
78	44.1	32.3	48.5

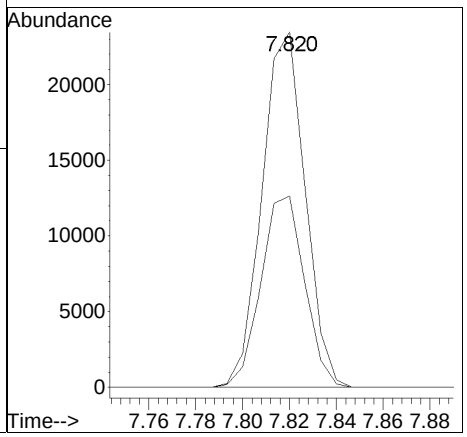


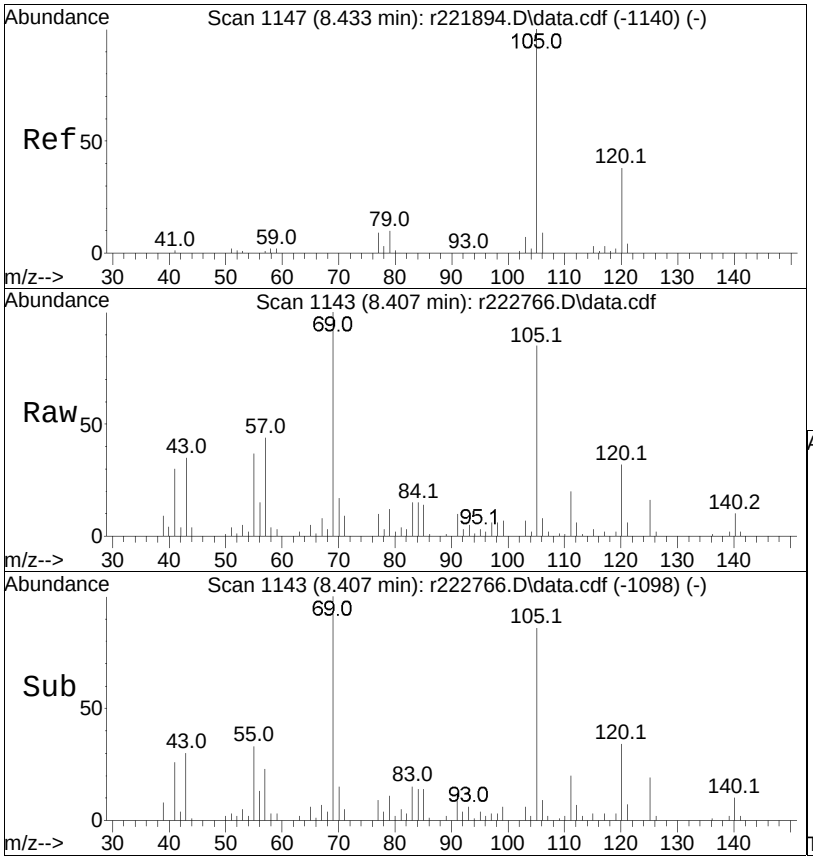


#87
o-xylene
Concen: 0.49 ppbV
RT: 7.820 min Scan# 1055
Delta R.T. -0.013 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 91 Resp: 30039

Ion	Ratio	Lower	Upper
91	100		
106	53.9	46.2	69.4

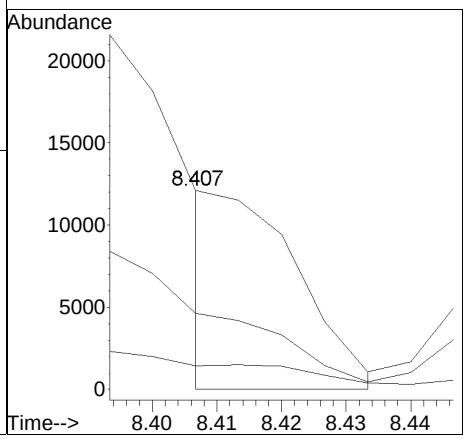


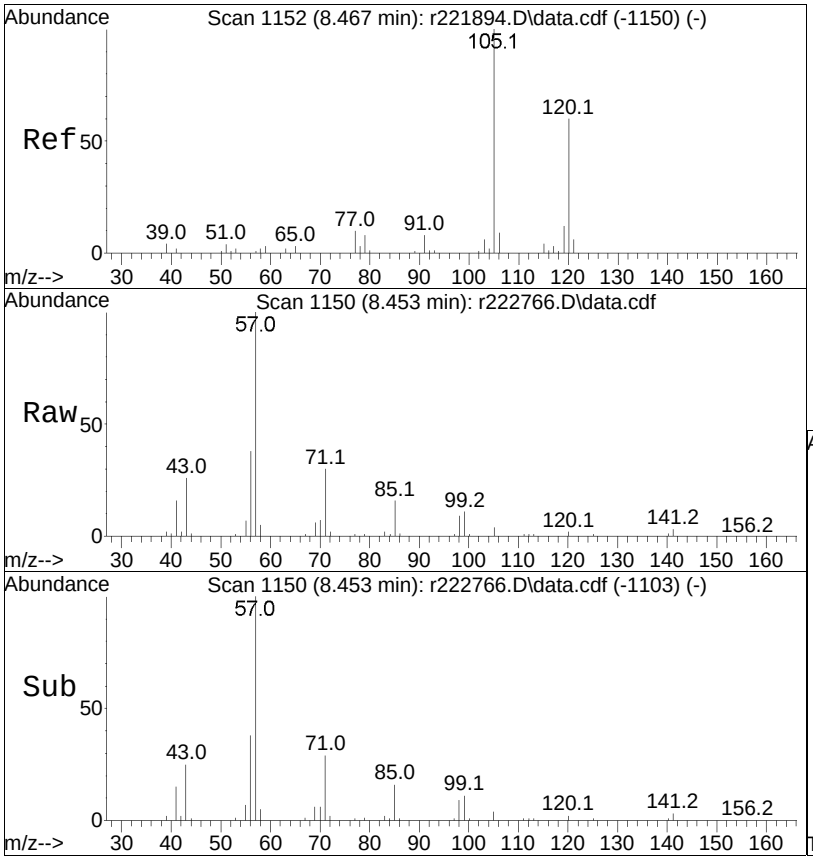


#96
4-ethyl toluene
Concen: 0.12 ppbV m
RT: 8.407 min Scan# 1143
Delta R.T. -0.027 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion:105 Resp: 10458

Ion	Ratio	Lower	Upper
105	100		
120	38.3	30.7	46.1
91	11.9	7.2	10.8#

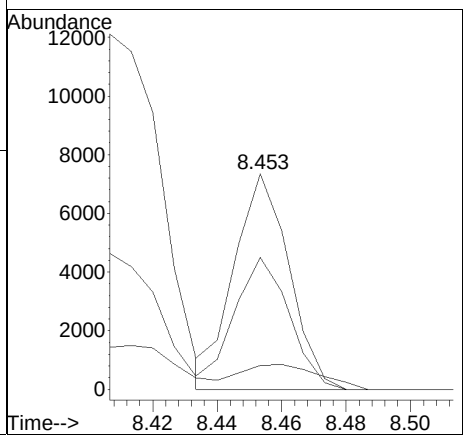


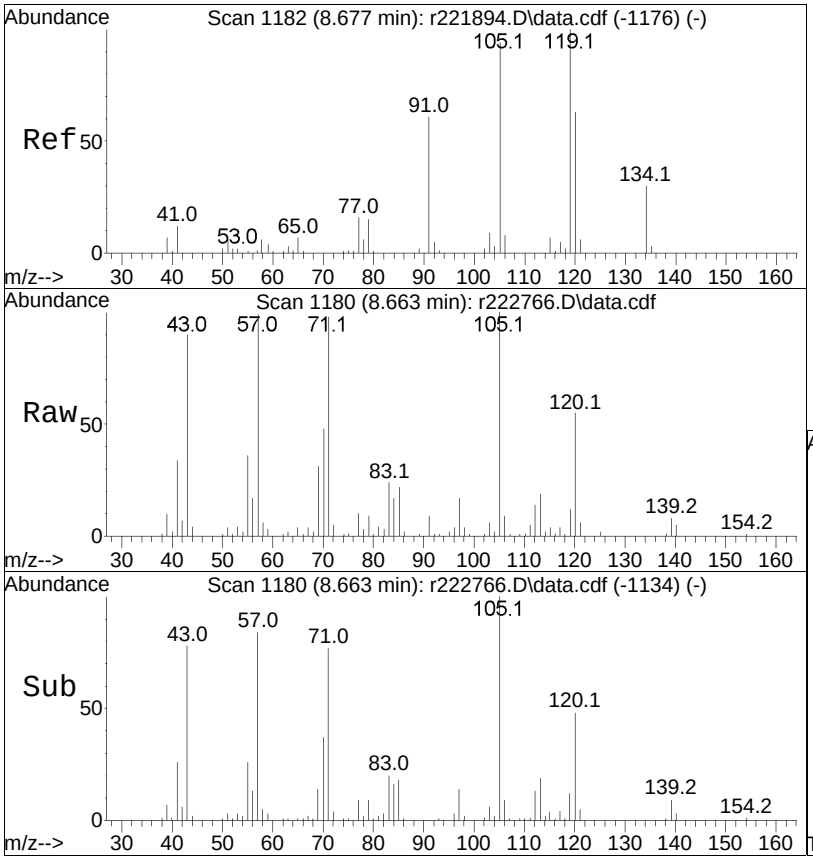


#97
1,3,5-trimethylbenzene
Concen: 0.12 ppbV
RT: 8.453 min Scan# 1150
Delta R.T. -0.013 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion:105 Resp: 8698

Ion	Ratio	Lower	Upper
105	100		
120	61.2	47.8	71.8
91	11.1	6.6	10.0#

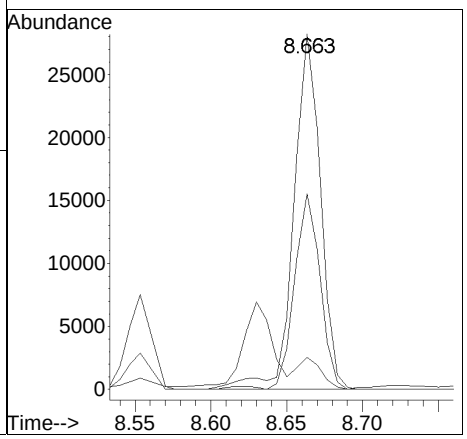




#99
1,2,4-trimethylbenzene
Concen: 0.49 ppbV
RT: 8.663 min Scan# 1180
Delta R.T. -0.013 min
Lab File: r222766.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion:105 Resp: 34632

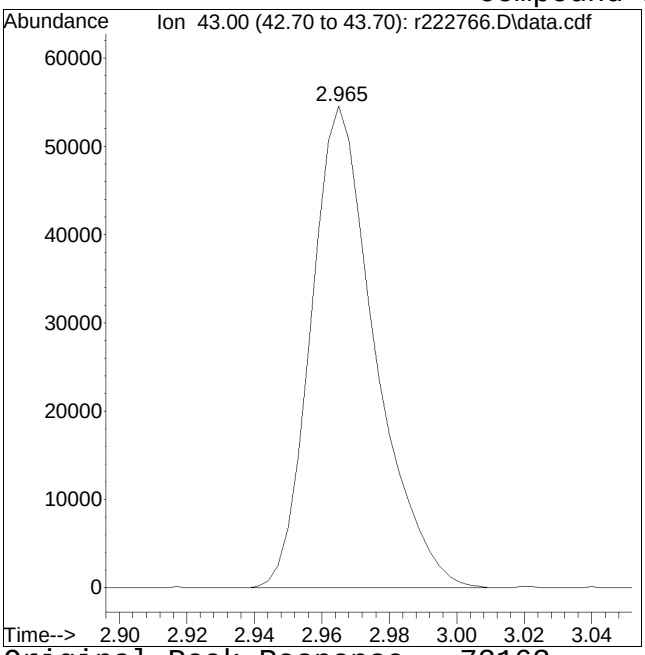
Ion	Ratio	Lower	Upper
105	100		
120	55.1	53.8	80.8
91	9.0	52.2	78.2#



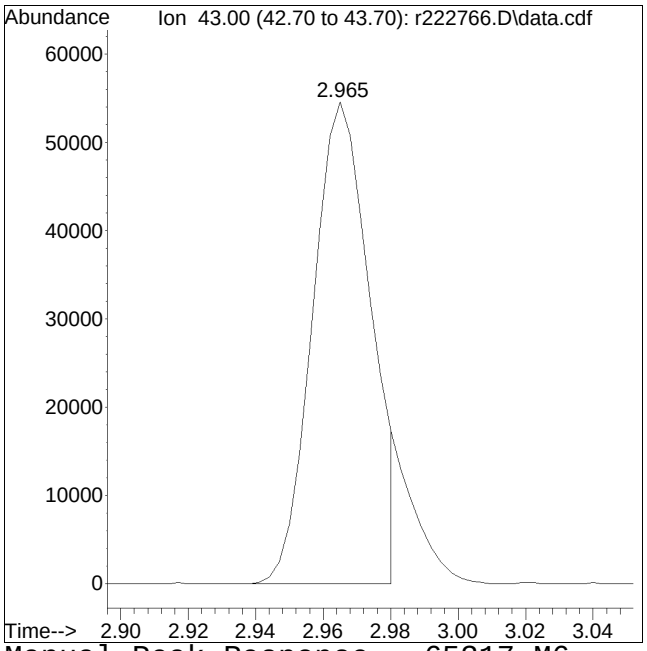
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222766.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:8: 6 Instrument :
Sample : L2409206-09,3,250,250 Quant Date : 3/2/2024 8:08 am

Compound #19: acetone



Original Peak Response = 72163



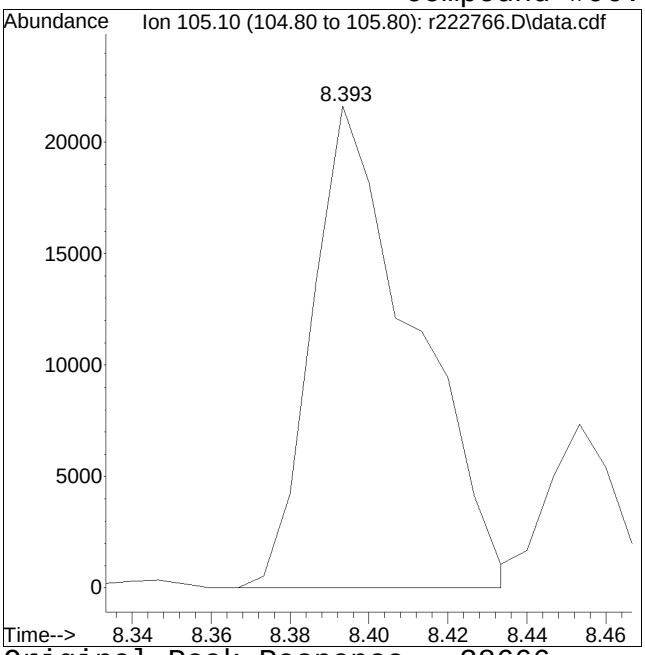
Manual Peak Response = 65317 M6

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

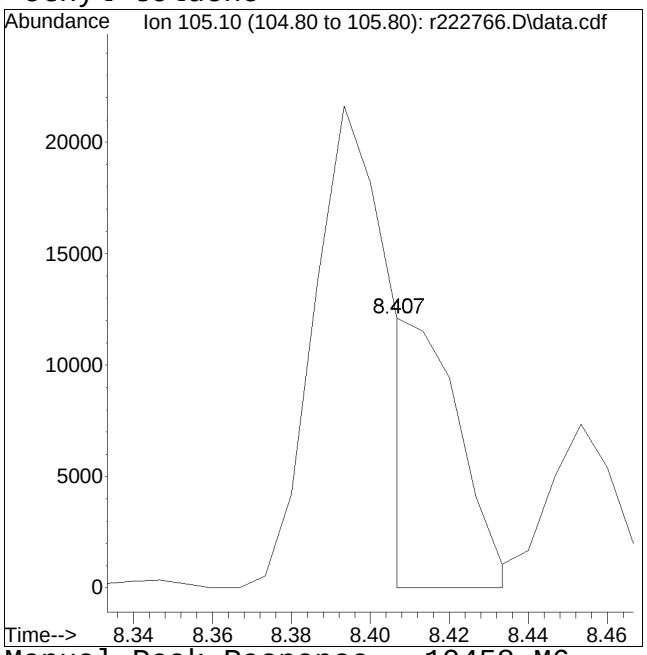
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222766.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:8: 6 Instrument :
Sample : L2409206-09,3,250,250 Quant Date : 3/2/2024 8:08 am

Compound #96: 4-ethyl toluene



Original Peak Response = 38666



Manual Peak Response = 10458 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222767.D
Acq On : 1 Mar 2024 9:00 PM
Operator : AIRLAB22:BJB
Sample : L2409206-11,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:25 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.437	49	223874	10.000	ppbV	-0.01
Standard Area = 199252			Recovery = 112.36%			
43) 1,4-difluorobenzene	5.363	114	704631	10.000	ppbV	-0.01
Standard Area = 623148			Recovery = 113.08%			
67) chlorobenzene-D5	7.333	54	78298	10.000	ppbV	-0.01
Standard Area = 82823			Recovery = 94.54%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.195	85	6403	0.355	ppbV	98
6) chloromethane	2.300	50	17468	1.785	ppbV	100
7) Freon-114	2.360		0	N.D.		
9) vinyl chloride	2.590		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	2.590		0	N.D.		
14) chloroethane	0.000		0	N.D.	d	
15) ethanol	2.745	31	89198	24.806	ppbV	98
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.965	43	43472M6	6.036	ppbV	
21) trichlorofluoromethane	3.046	101	9467	0.984	ppbV	98
22) isopropyl alcohol	3.073	45	30103	2.521	ppbV	100
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	3.365	59	39596	1.472	ppbV	98
28) methylene chloride	3.400	49	3379	0.190	ppbV	95
29) 3-chloropropene	3.425		0	N.D.		
30) carbon disulfide	3.545	76	16160	0.328	ppbV #	91
31) Freon 113	3.530	101	1749	0.065	ppbV	95
32) trans-1,2-dichloroethene	3.857	61	2524	0.110	ppbV	98
33) 1,1-dichloroethane	3.943		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
36) 2-butanone	4.143	43	21216	0.584	ppbV	99
37) cis-1,2-dichloroethene	4.463		0	N.D.		
38) Ethyl Acetate	4.463		0	N.D.		
39) chloroform	4.497	83	3911	0.152	ppbV	95
40) Tetrahydrofuran	4.690	42	113174	4.892	ppbV	99
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	4.457	57	5846	0.235	ppbV #	7

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222767.D
Acq On : 1 Mar 2024 9:00 PM
Operator : AIRLAB22:BJB
Sample : L2409206-11,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:25 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	5.197	78	12808	0.244	ppbV	96
52) carbon tetrachloride	5.263		0	N.D.		
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	5.670		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	5.690		0	N.D.		
60) 2,2,4-trimethylpentane	5.710	57	11092	0.140	ppbV #	68
62) heptane	5.830	43	7622	0.243	ppbV	97
63) cis-1,3-dichloropropene	6.080		0	N.D.		
64) 4-methyl-2-pentanone	6.107	43	27053	0.774	ppbV	97
65) trans-1,3-dichloropropene	6.313		0	N.D.		
66) 1,1,2-trichloroethane	6.360		0	N.D.		
68) toluene	6.533	91	78246	1.198	ppbV	99
72) 2-hexanone	6.647	43	3164M3	0.083	ppbV	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	7.047	166	2612	0.103	ppbV	93
80) chlorobenzene	7.360		0	N.D.		
81) ethylbenzene	7.520	91	30568	0.387	ppbV	98
83) m+p-xylene	7.600	91	96301	1.566	ppbV	98
84) bromoform	0.000		0	N.D.		
85) styrene	7.767	104	4292	0.078	ppbV	99
86) 1,1,2,2-tetrachloroethane	7.720		0	N.D.		
87) o-xylene	7.820	91	34073	0.567	ppbV	95
96) 4-ethyl toluene	8.407	105	11323M3	0.128	ppbV	
97) 1,3,5-trimethylbenzene	8.453	105	8701	0.120	ppbV #	97
99) 1,2,4-trimethylbenzene	8.663	105	34020	0.490	ppbV #	58
101) Benzyl Chloride	8.803		0	N.D.		
102) 1,3-dichlorobenzene	8.743		0	N.D.		
103) 1,4-dichlorobenzene	8.783		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\Airlab22\2024\03\0301T\
Data File : r222767.D
Acq On : 1 Mar 2024 9:00 PM
Operator : AIRLAB22:BJB
Sample : L2409206-11,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:25 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

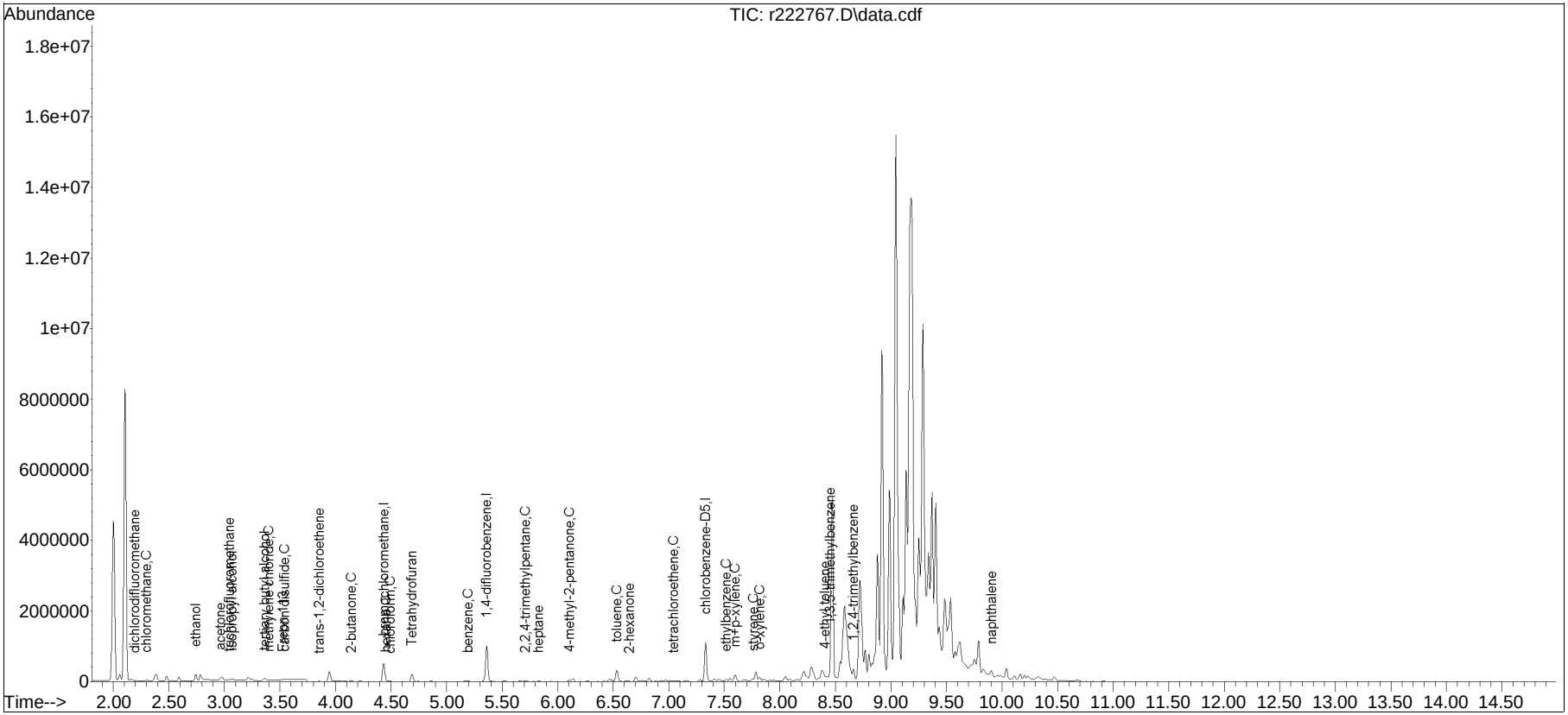
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

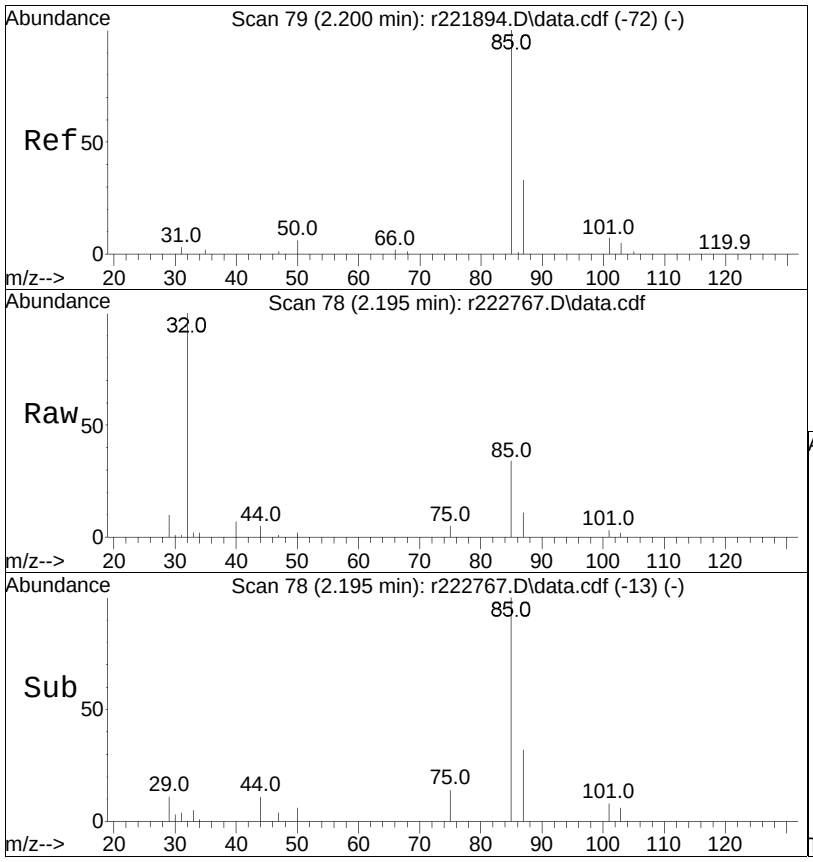
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : TO15-NY+Naphthalene - .b22\2024\03\0301T\r222756.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222767.D
Acq On : 1 Mar 2024 9:00 PM
Operator : AIRLAB22:BJB
Sample : L2409206-11,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:25 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

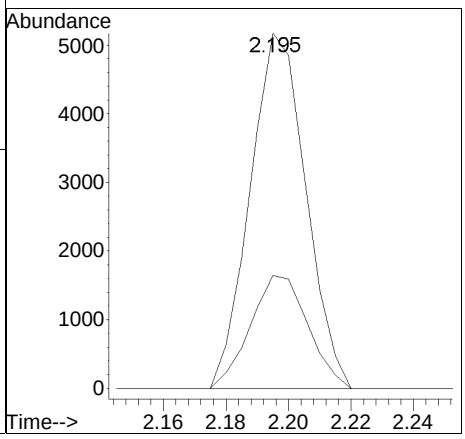


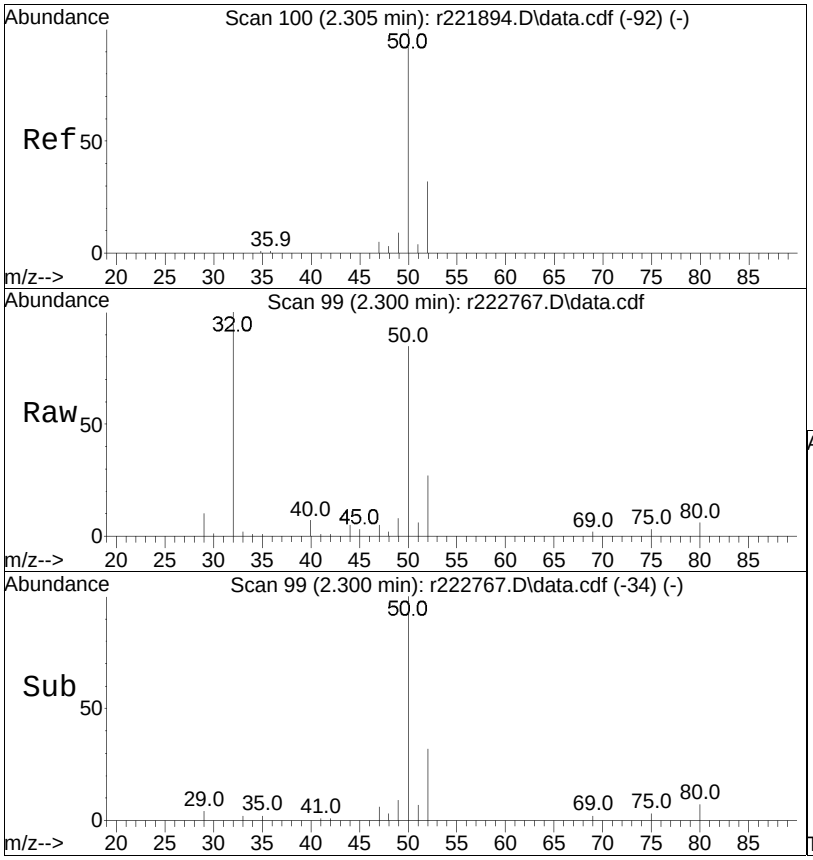


#5
dichlorodifluoromethane
Concen: 0.36 ppbV
RT: 2.195 min Scan# 78
Delta R.T. -0.005 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 85 Resp: 6403

Ion	Ratio	Lower	Upper
85	100		
87	31.8	26.3	39.5

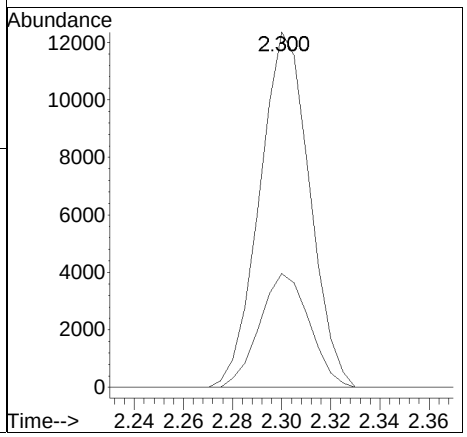


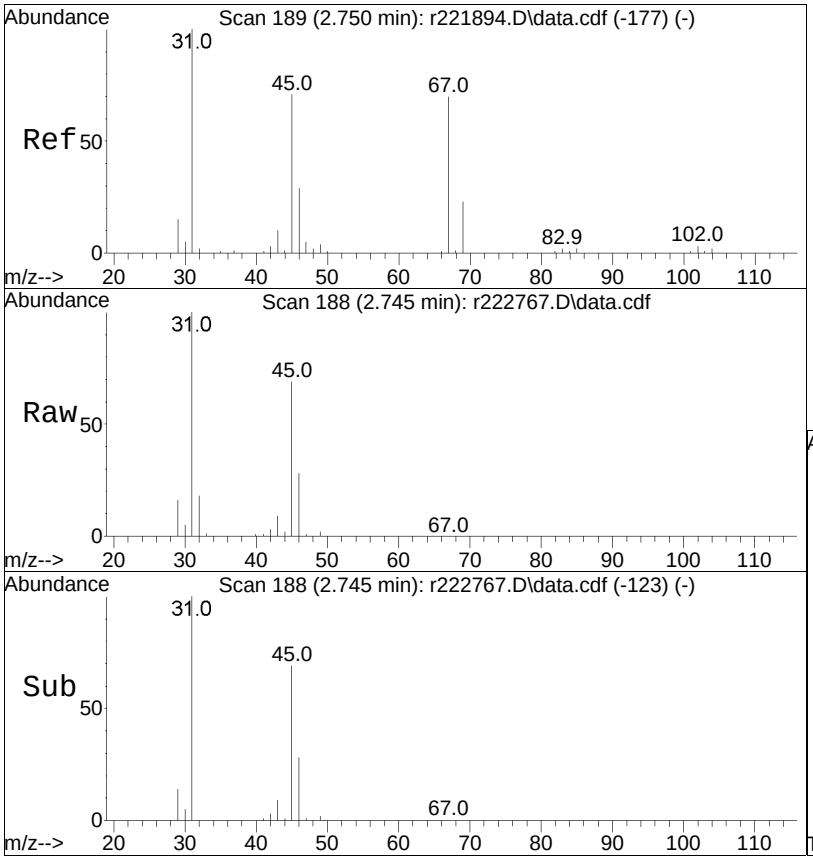


#6
chloromethane
Concen: 1.79 ppbV
RT: 2.300 min Scan# 99
Delta R.T. -0.005 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 50 Resp: 17468

Ion	Ratio	Lower	Upper
50	100		
52	32.0	25.5	38.3

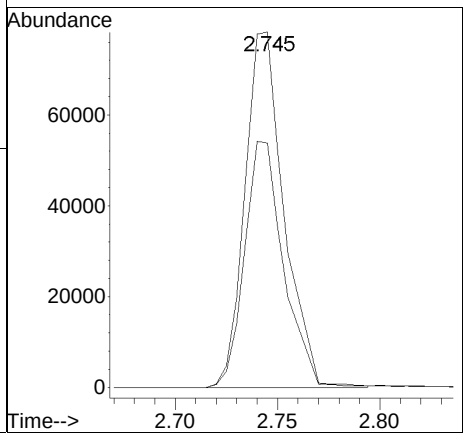


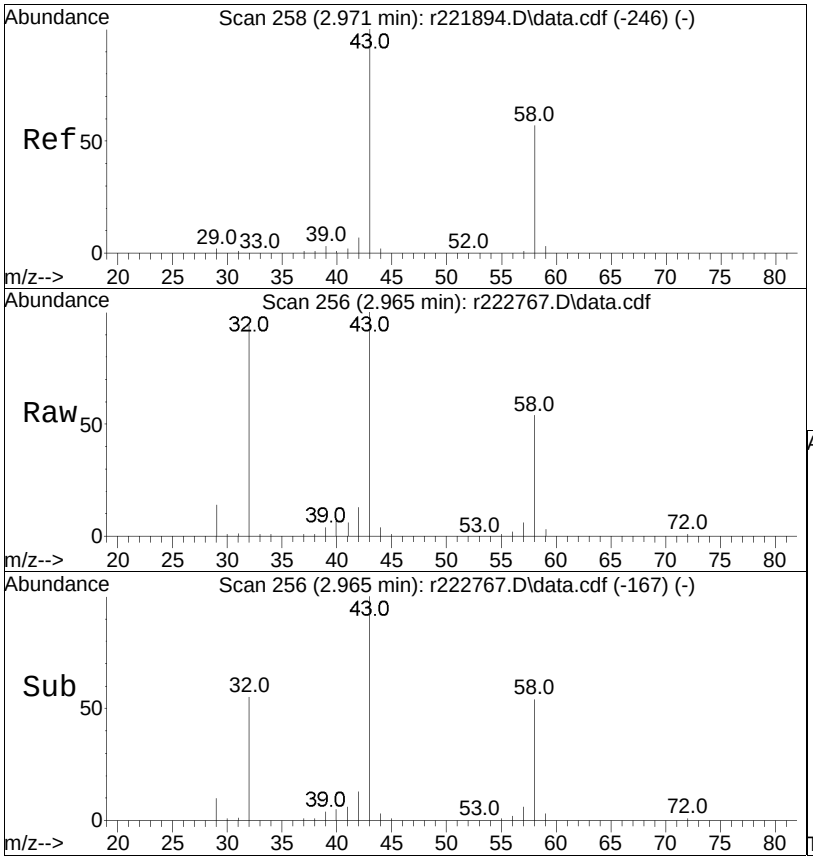


#15
ethanol
Concen: 24.81 ppbV
RT: 2.745 min Scan# 188
Delta R.T. -0.005 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 31 Resp: 89198

Ion	Ratio	Lower	Upper
31	100		
45	68.8	56.6	84.8

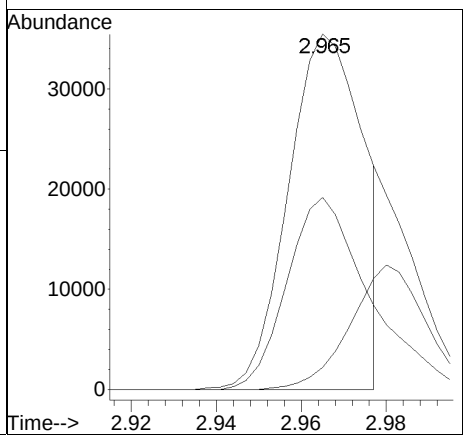


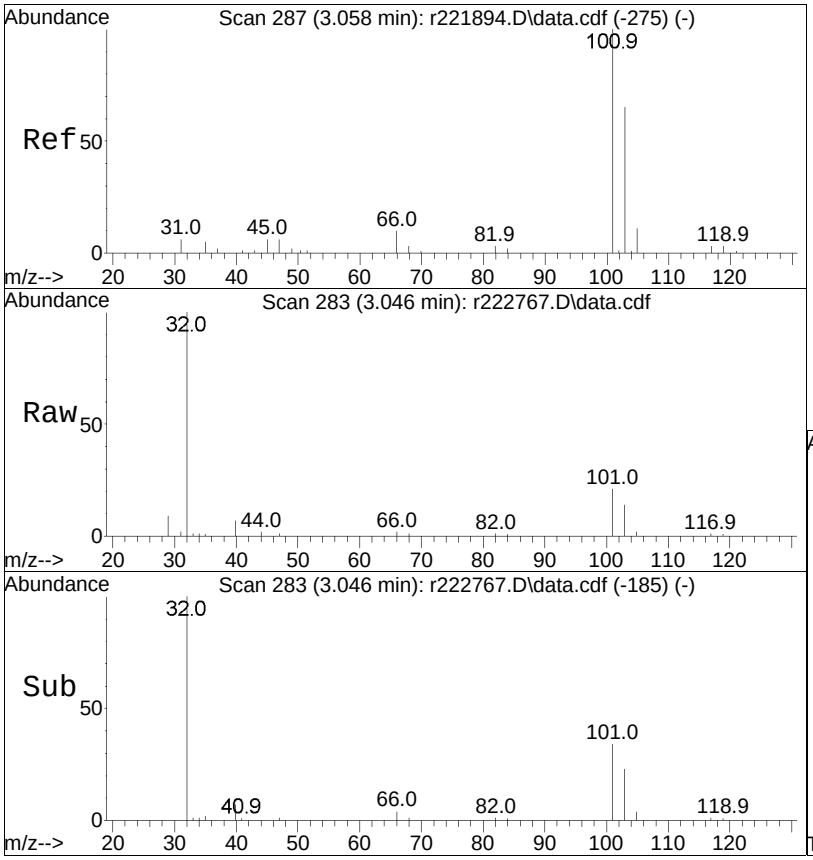


#19
acetone
Concen: 6.04 ppbV m
RT: 2.965 min Scan# 256
Delta R.T. -0.006 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 43 Resp: 43472

Ion	Ratio	Lower	Upper
43	100		
58	54.0	45.5	68.3
57	6.2	1.0	1.6#

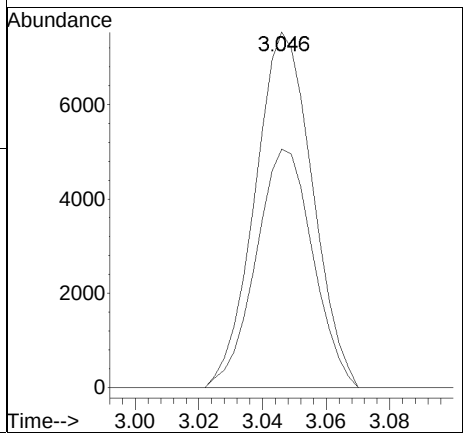


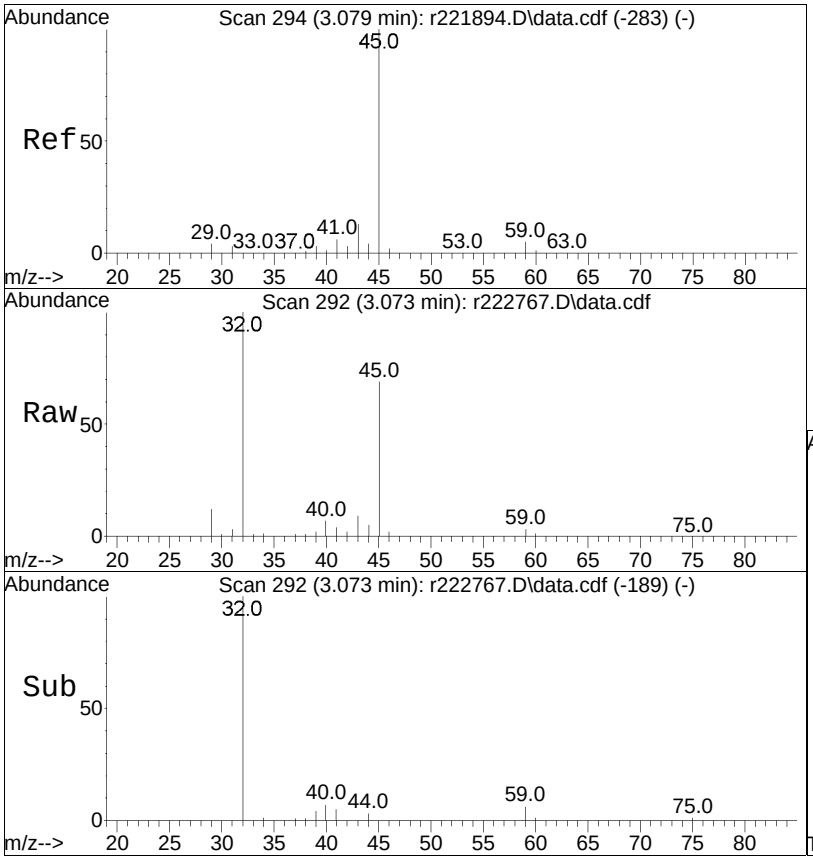


#21
trichlorofluoromethane
Concen: 0.98 ppbV
RT: 3.046 min Scan# 283
Delta R.T. -0.012 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion:101 Resp: 9467

Ion	Ratio	Lower	Upper
101	100		
103	67.1	52.2	78.4

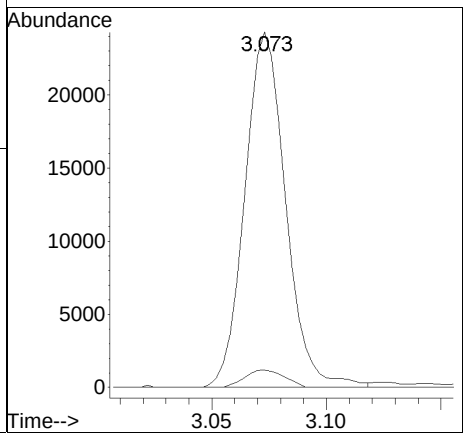


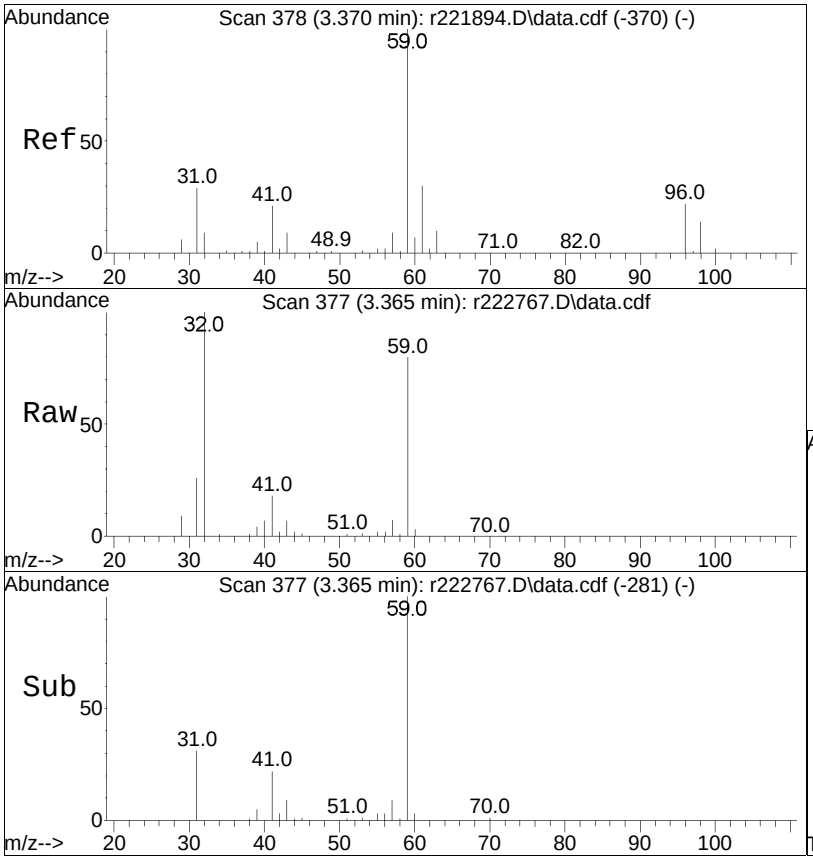


#22
isopropyl alcohol
Concen: 2.52 ppbV
RT: 3.073 min Scan# 292
Delta R.T. -0.006 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 45 Resp: 30103

Ion	Ratio	Lower	Upper
45	100		
59	4.8	4.0	6.0

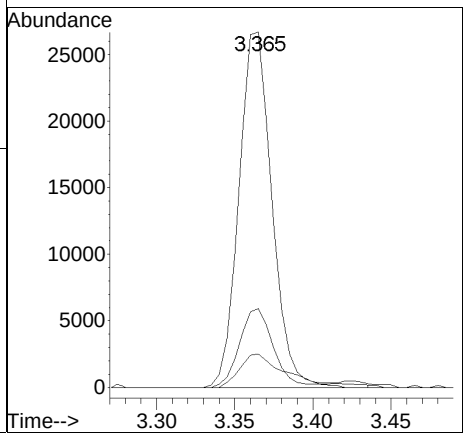


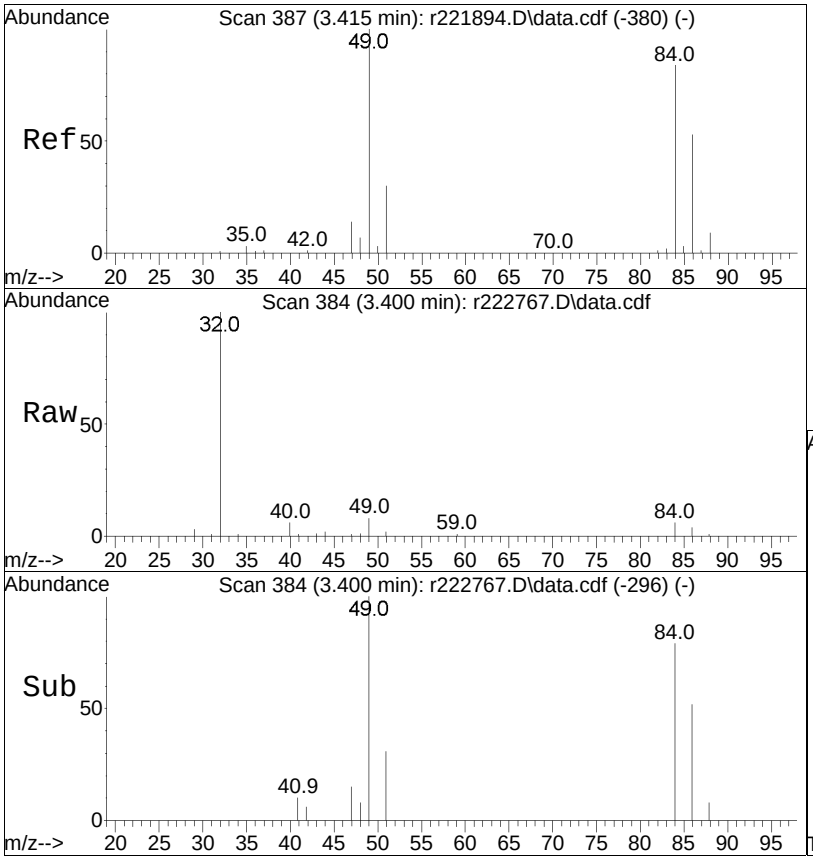


#27
tertiary butyl alcohol
Concen: 1.47 ppbV
RT: 3.365 min Scan# 377
Delta R.T. -0.005 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 59 Resp: 39596

Ion	Ratio	Lower	Upper
59	100		
41	22.2	16.9	25.3
43	9.4	7.5	11.3

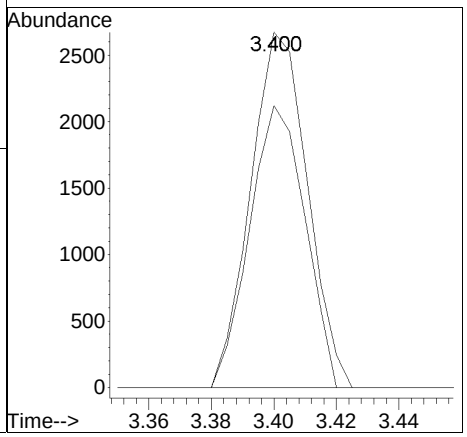


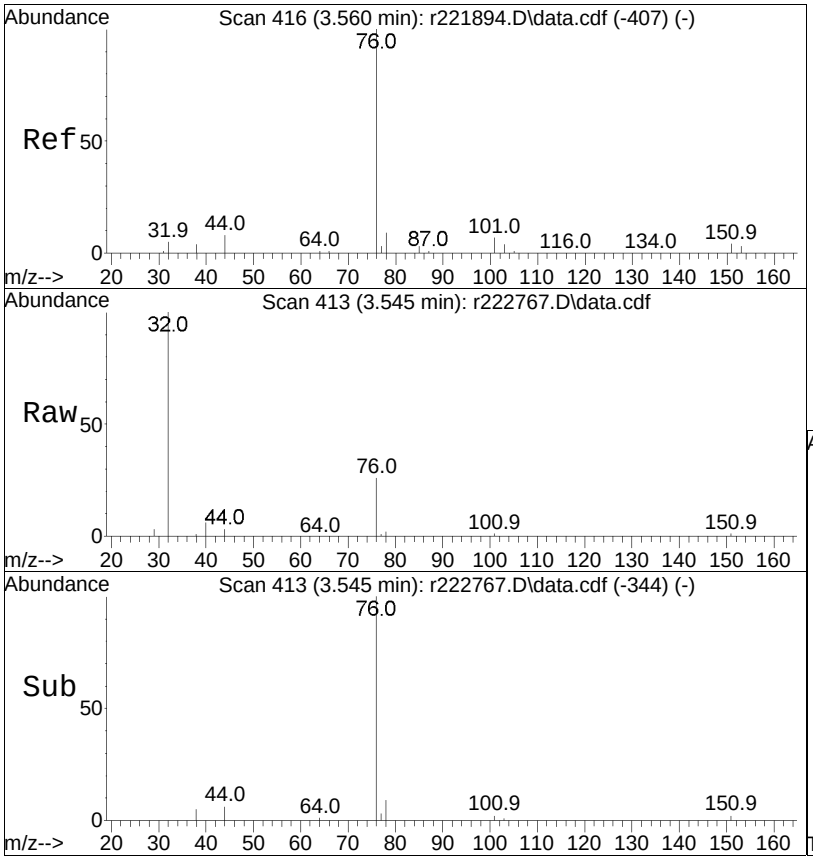


#28
methylene chloride
Concen: 0.19 ppbV
RT: 3.400 min Scan# 384
Delta R.T. -0.015 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 49 Resp: 3379

Ion	Ratio	Lower	Upper
49	100		
84	79.3	67.2	100.8

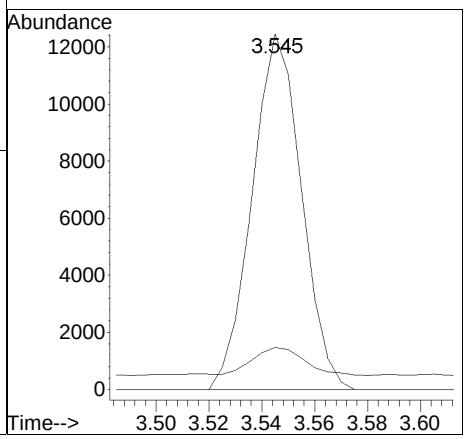


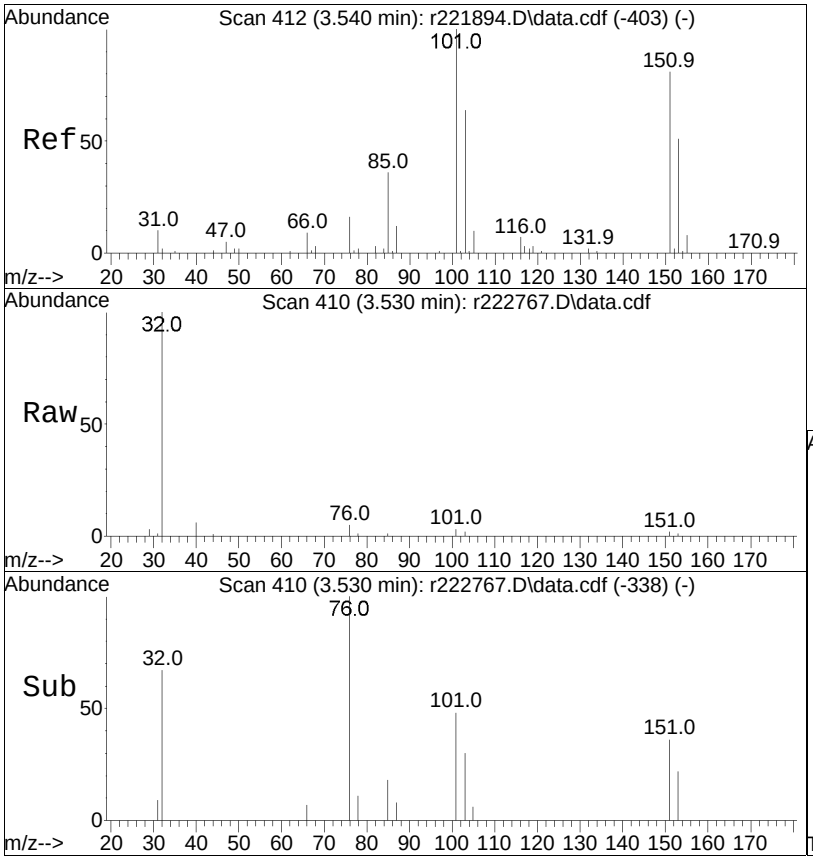


#30
carbon disulfide
Concen: 0.33 ppbV
RT: 3.545 min Scan# 413
Delta R.T. -0.015 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 76 Resp: 16160

Ion	Ratio	Lower	Upper
76	100		
44	11.8	6.8	10.2#

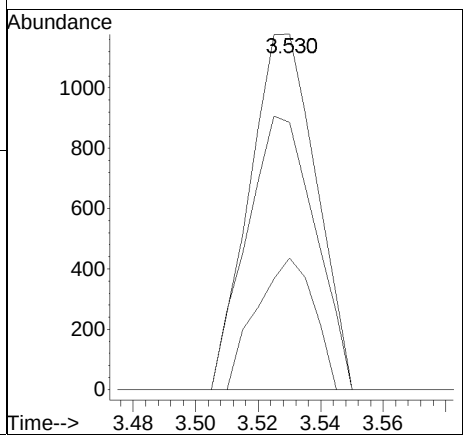


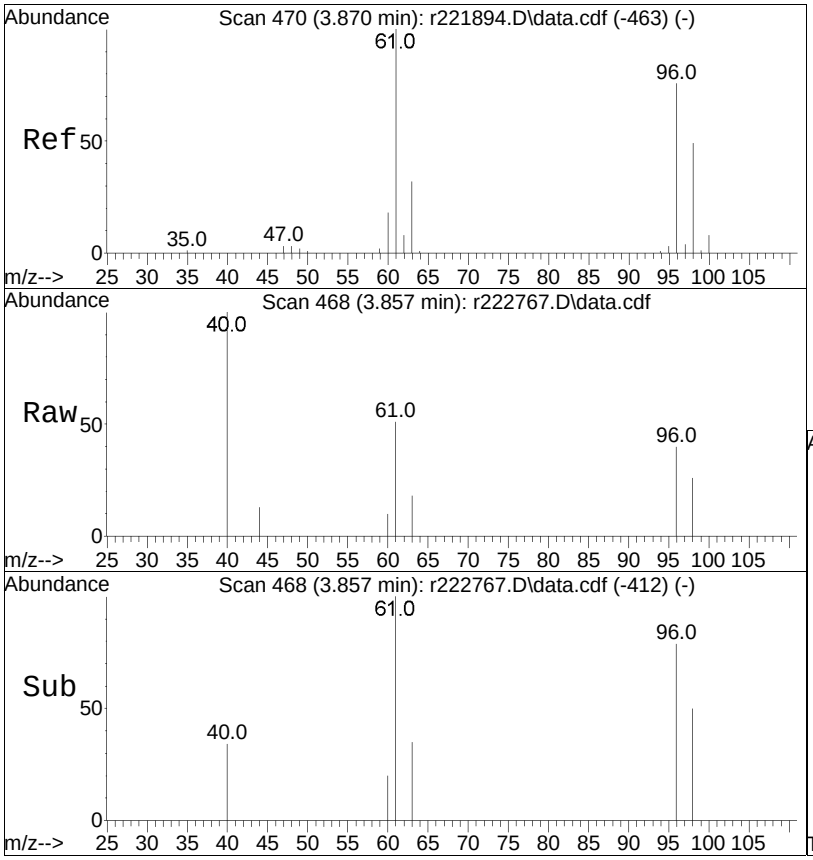


#31
Freon 113
Concen: 0.06 ppbV
RT: 3.530 min Scan# 410
Delta R.T. -0.010 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion:101 Resp: 1749

Ion	Ratio	Lower	Upper
101	100		
85	37.0	28.6	43.0
151	75.1	64.6	97.0

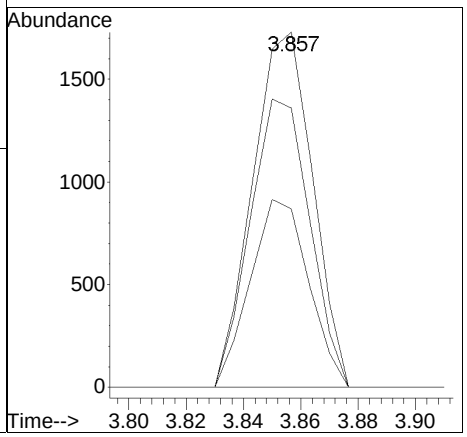


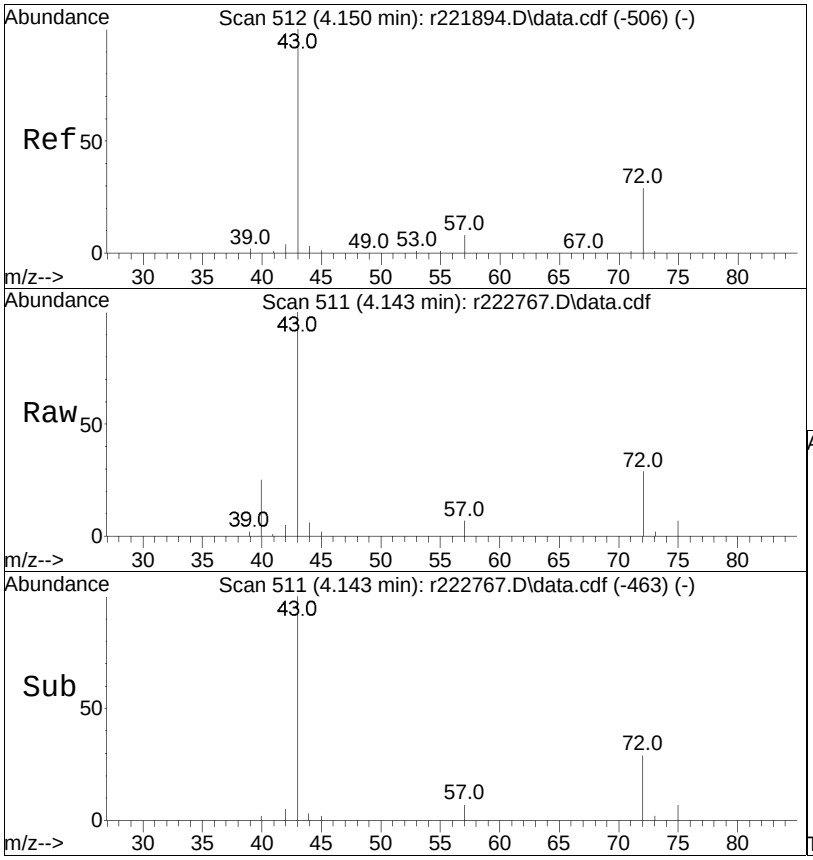


#32
trans-1,2-dichloroethene
Concen: 0.11 ppbV
RT: 3.857 min Scan# 468
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 61 Resp: 2524

Ion	Ratio	Lower	Upper
61	100		
96	78.6	61.0	91.6
98	50.2	39.0	58.6

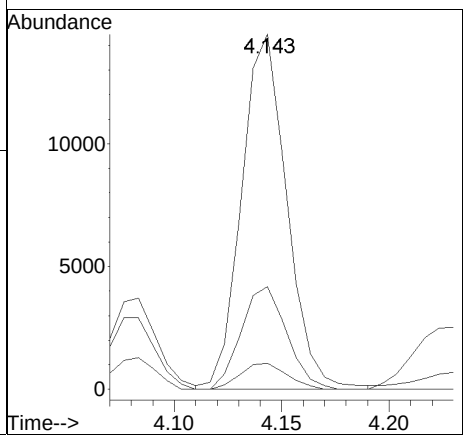


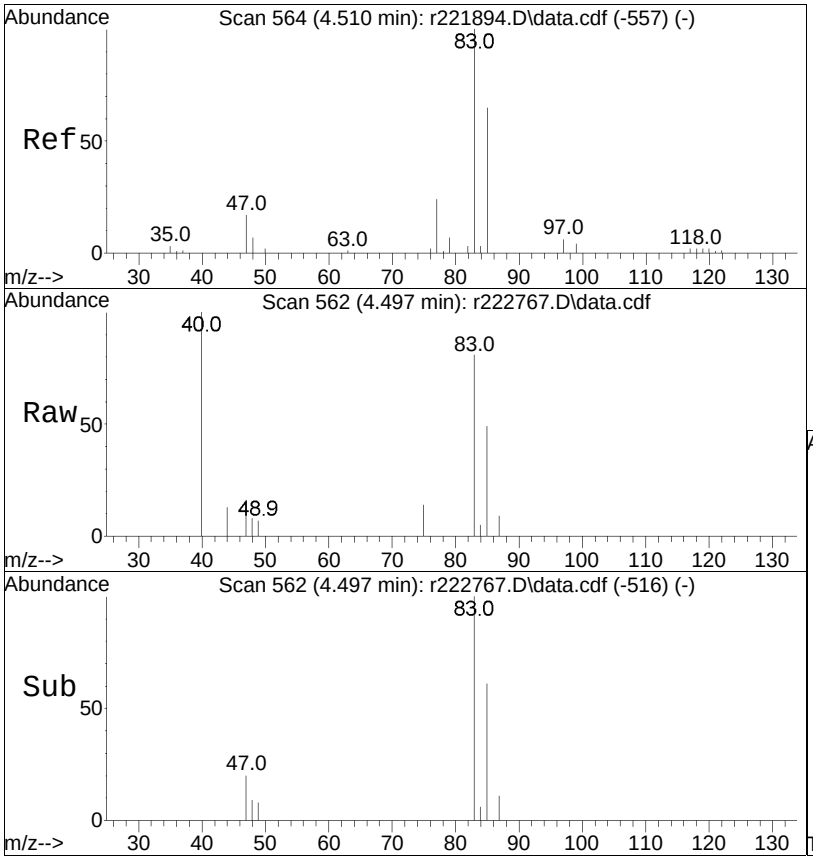


#36
2-butanone
Concen: 0.58 ppbV
RT: 4.143 min Scan# 511
Delta R.T. -0.007 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 43 Resp: 21216

Ion	Ratio	Lower	Upper
43	100		
72	28.9	23.0	34.6
57	7.4	6.3	9.5

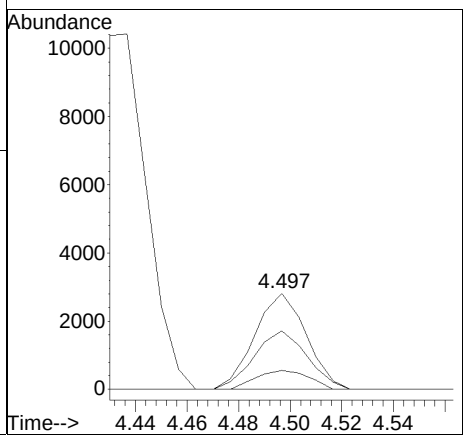


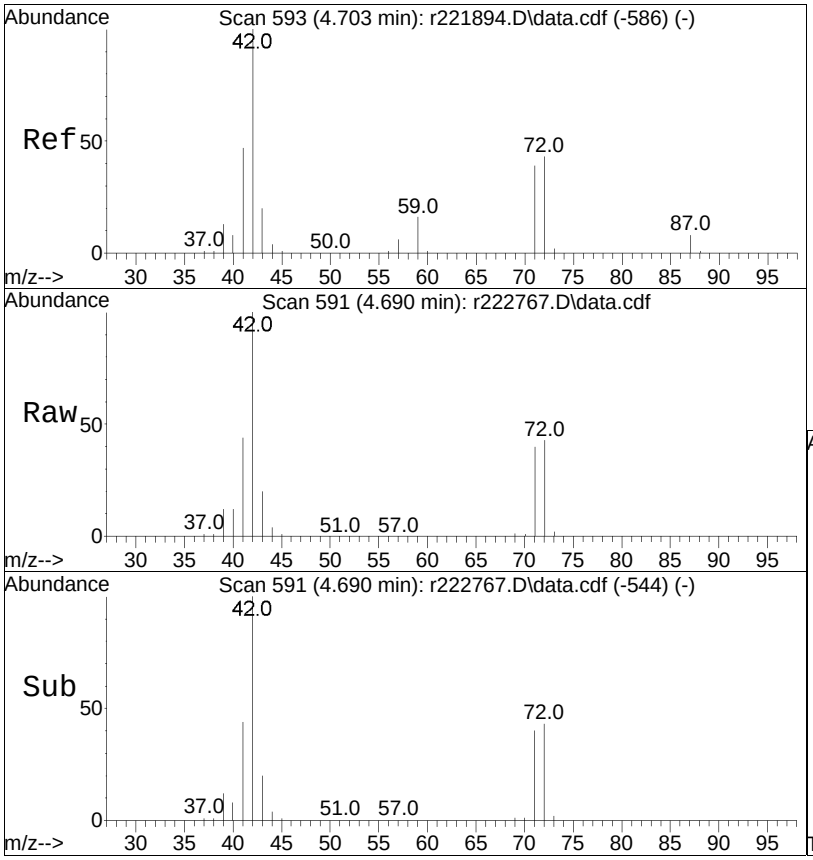


#39
chloroform
Concen: 0.15 ppbV
RT: 4.497 min Scan# 562
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 83 Resp: 3911

Ion	Ratio	Lower	Upper
83	100		
85	61.0	52.6	79.0
47	19.8	15.1	22.7

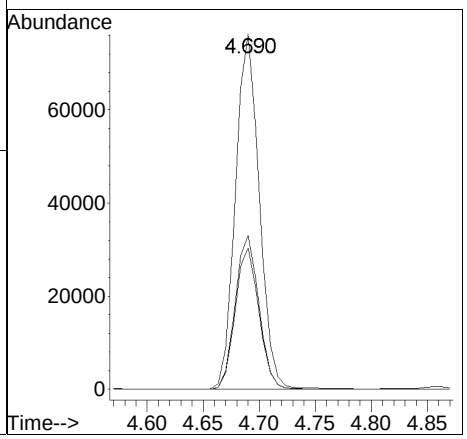


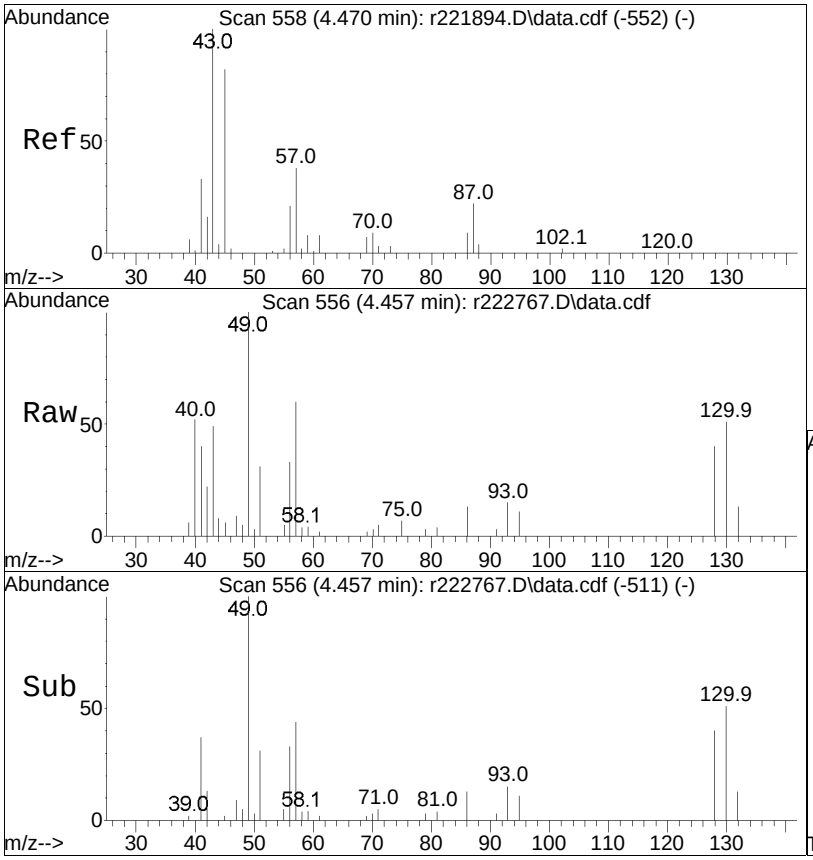


#40
Tetrahydrofuran
Concen: 4.89 ppbV
RT: 4.690 min Scan# 591
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 42 Resp: 113174

Ion	Ratio	Lower	Upper
42	100		
71	39.9	31.4	47.2
72	43.3	34.3	51.5

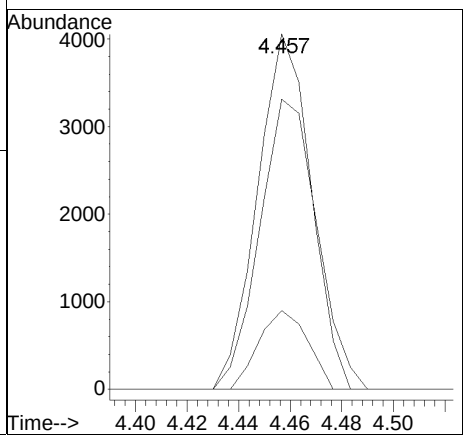


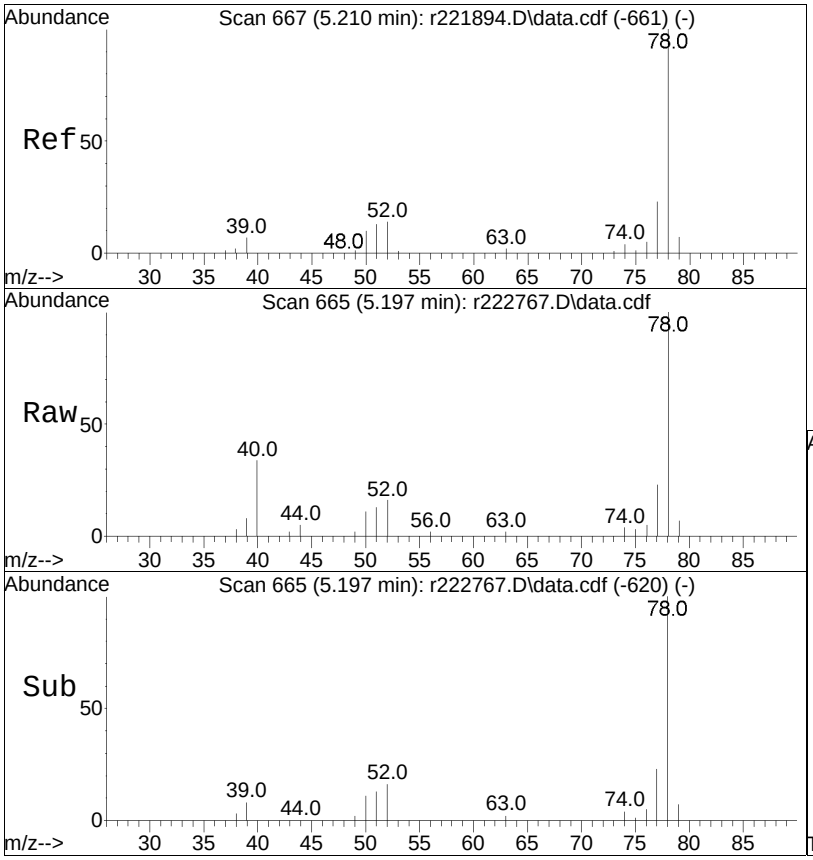


#44
hexane
Concen: 0.23 ppbV
RT: 4.457 min Scan# 556
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 57 Resp: 5846

Ion	Ratio	Lower	Upper
57	100		
43	81.7	210.8	316.2#
86	22.2	17.9	26.9

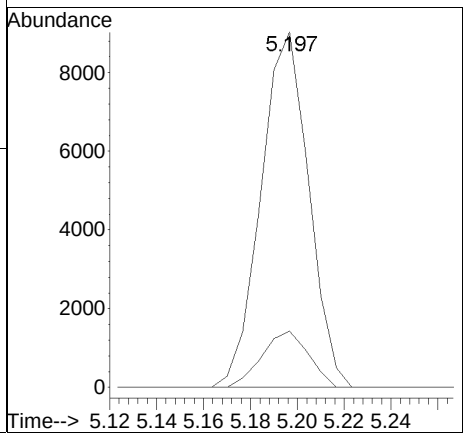


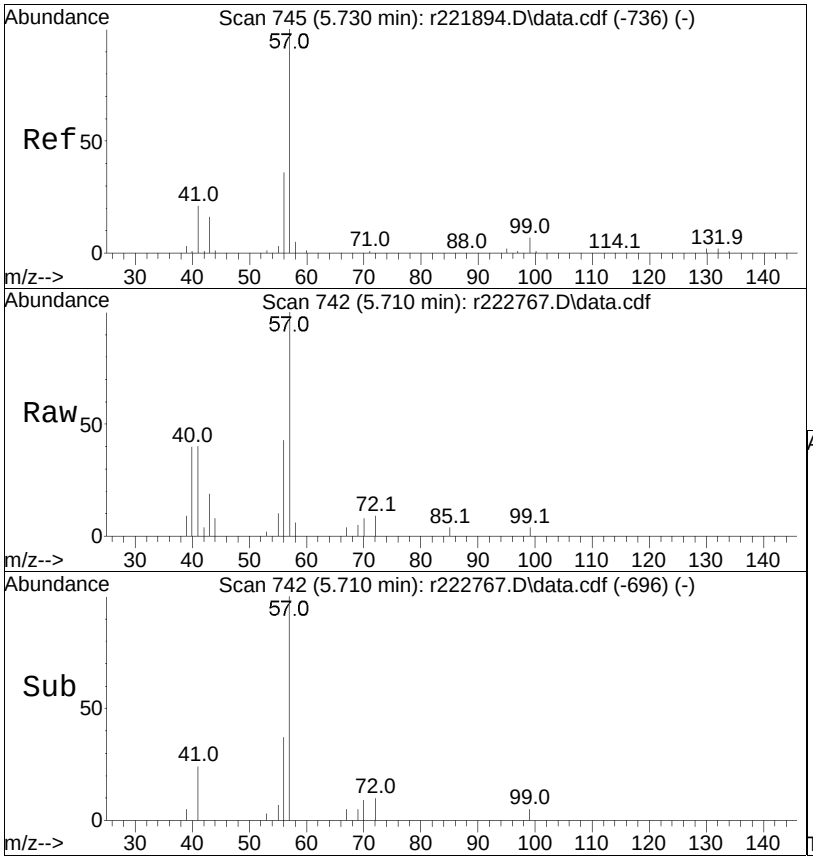


#50
benzene
Concen: 0.24 ppbV
RT: 5.197 min Scan# 665
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 78 Resp: 12808

Ion	Ratio	Lower	Upper
78	100		
52	15.8	11.3	16.9

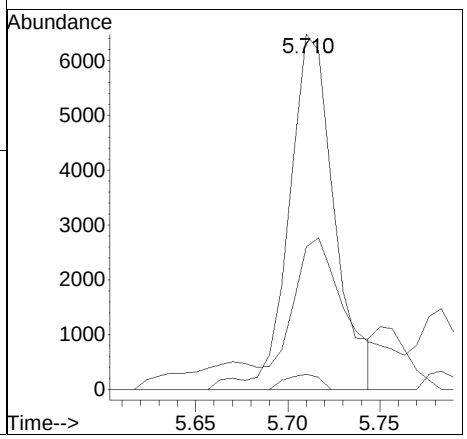


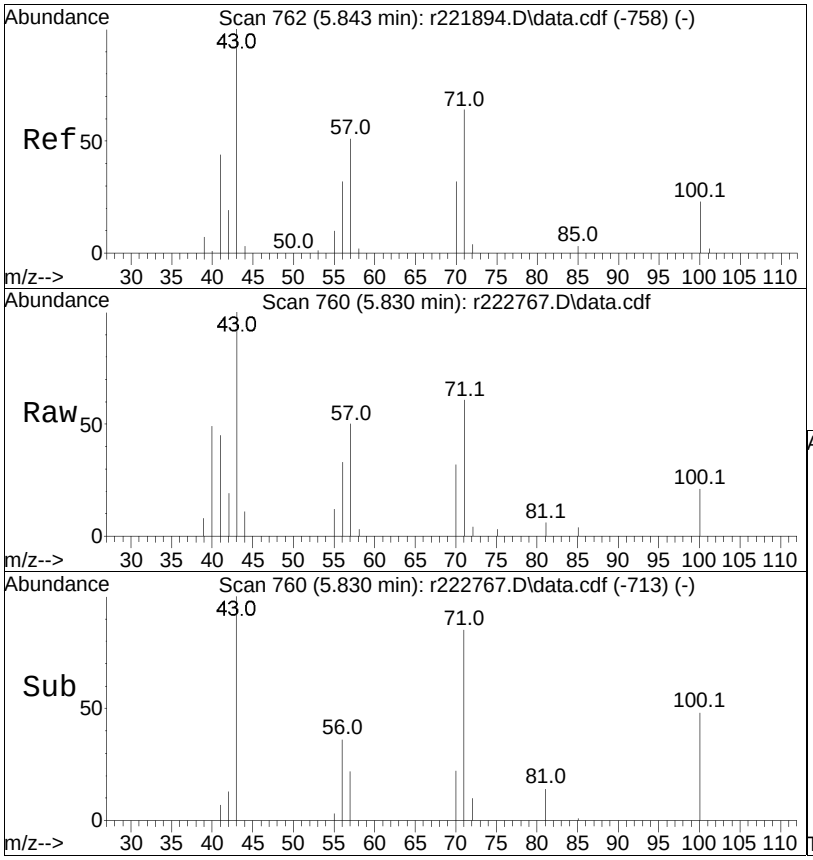


#60
2,2,4-trimethylpentane
Concen: 0.14 ppbV
RT: 5.710 min Scan# 742
Delta R.T. -0.020 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 57 Resp: 11092

Ion	Ratio	Lower	Upper
57	100		
99	4.3	5.7	8.5#
41	40.1	16.9	25.3#

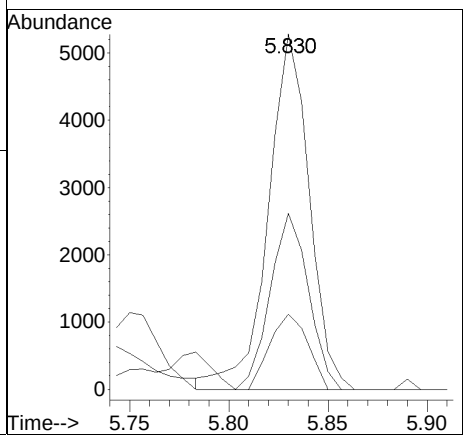


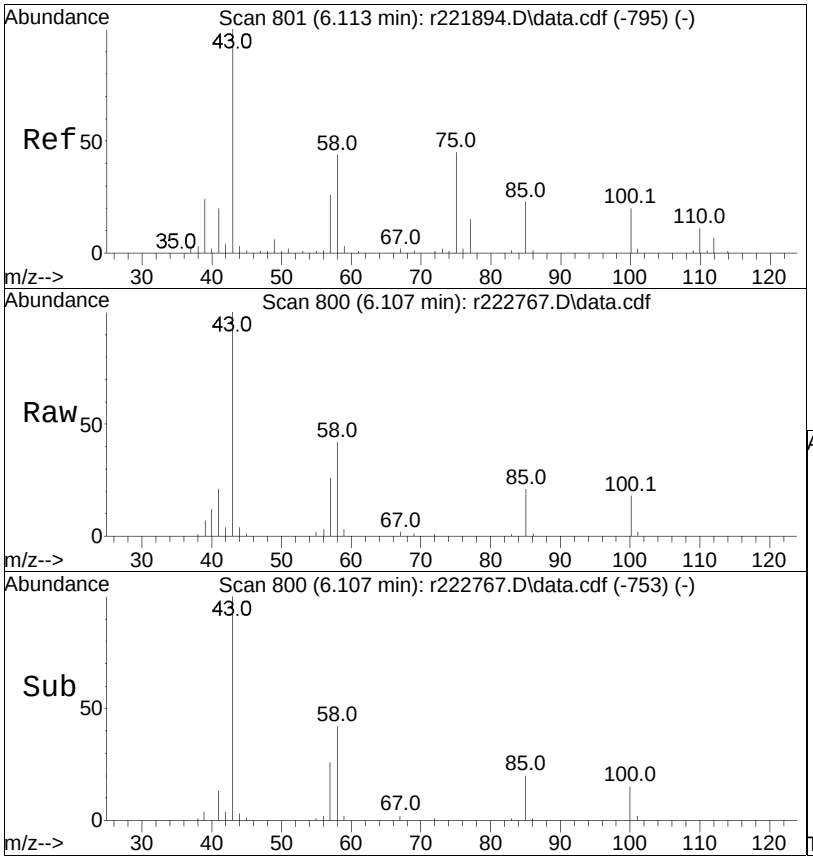


#62
heptane
Concen: 0.24 ppbV
RT: 5.830 min Scan# 760
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 43 Resp: 7622

Ion	Ratio	Lower	Upper
43	100		
57	49.6	40.4	60.6
100	21.2	19.0	28.6

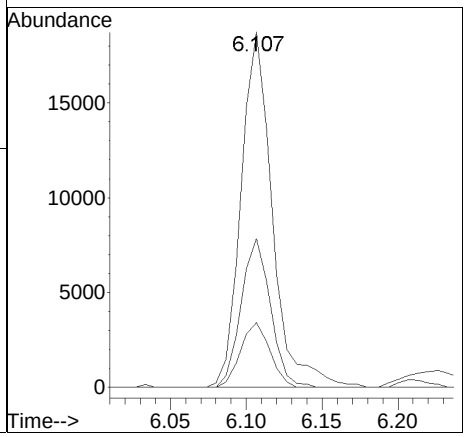


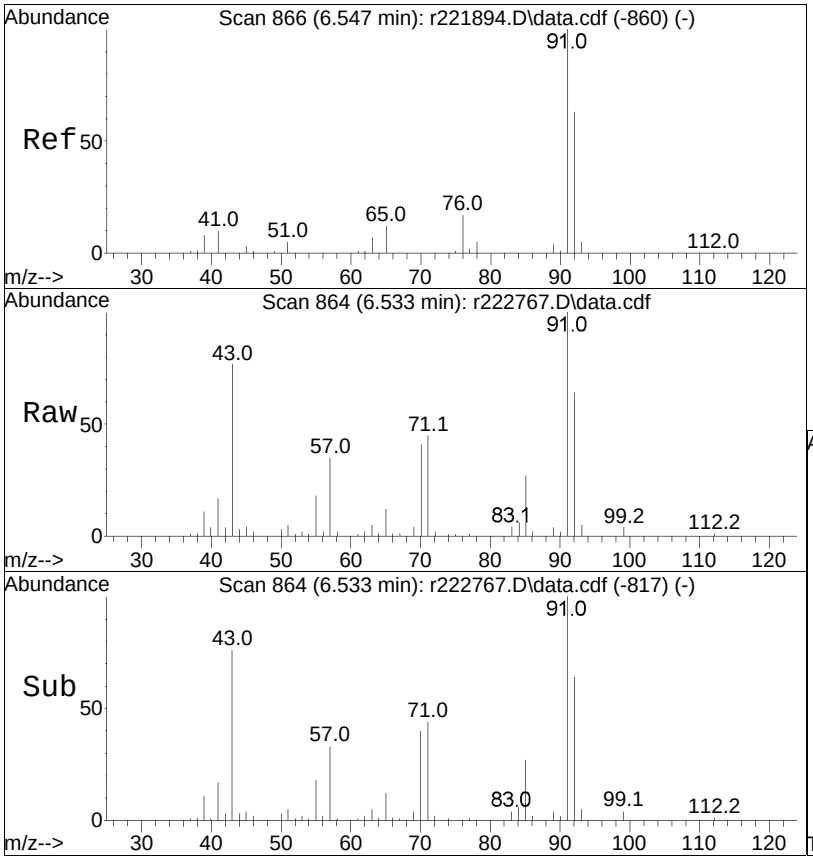


#64
4-methyl-2-pentanone
Concen: 0.77 ppbV
RT: 6.107 min Scan# 800
Delta R.T. -0.007 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 43 Resp: 27053

Ion	Ratio	Lower	Upper
43	100		
58	41.9	34.9	52.3
100	18.2	16.1	24.1

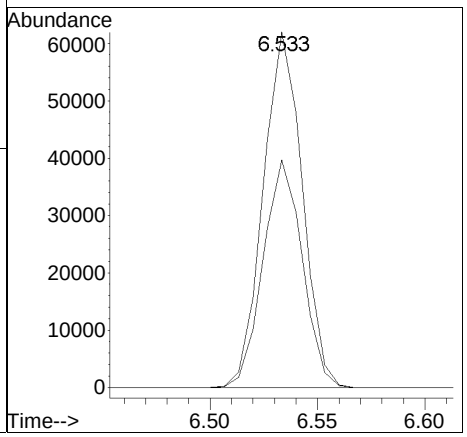


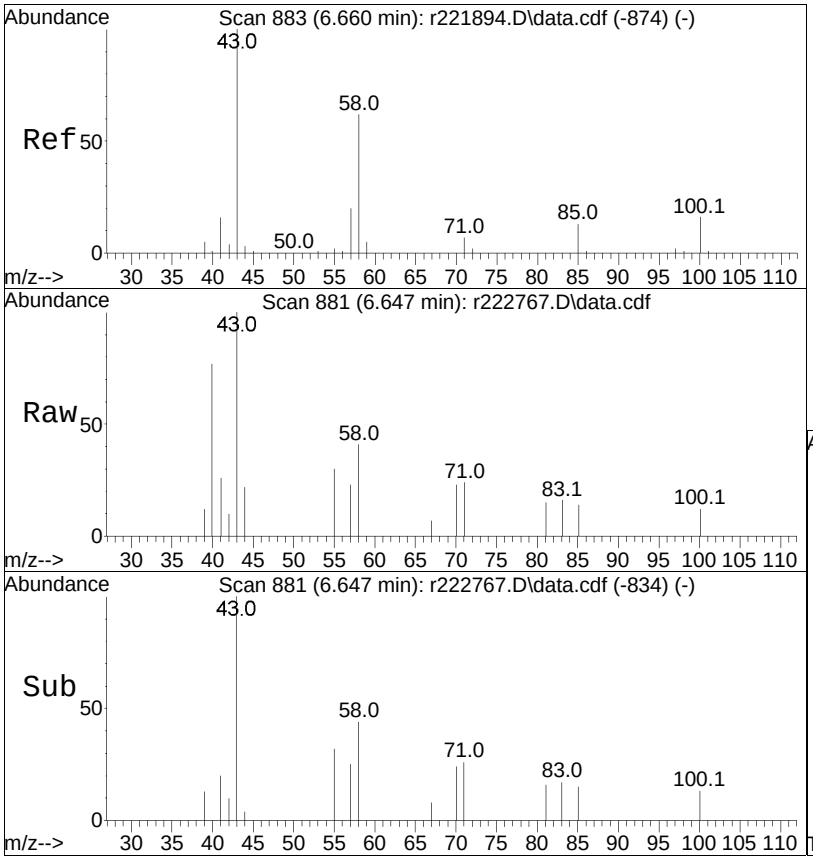


#68
toluene
Concen: 1.20 ppbV
RT: 6.533 min Scan# 864
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 91 Resp: 78246

Ion	Ratio	Lower	Upper
91	100		
92	64.0	50.7	76.1

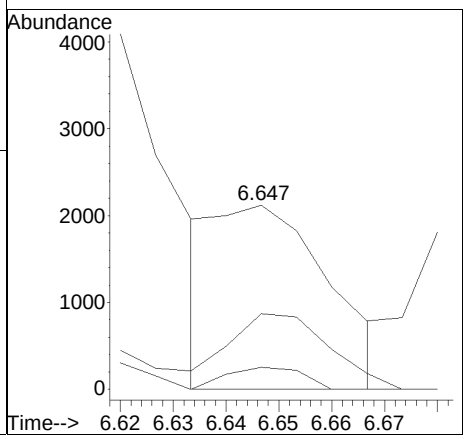


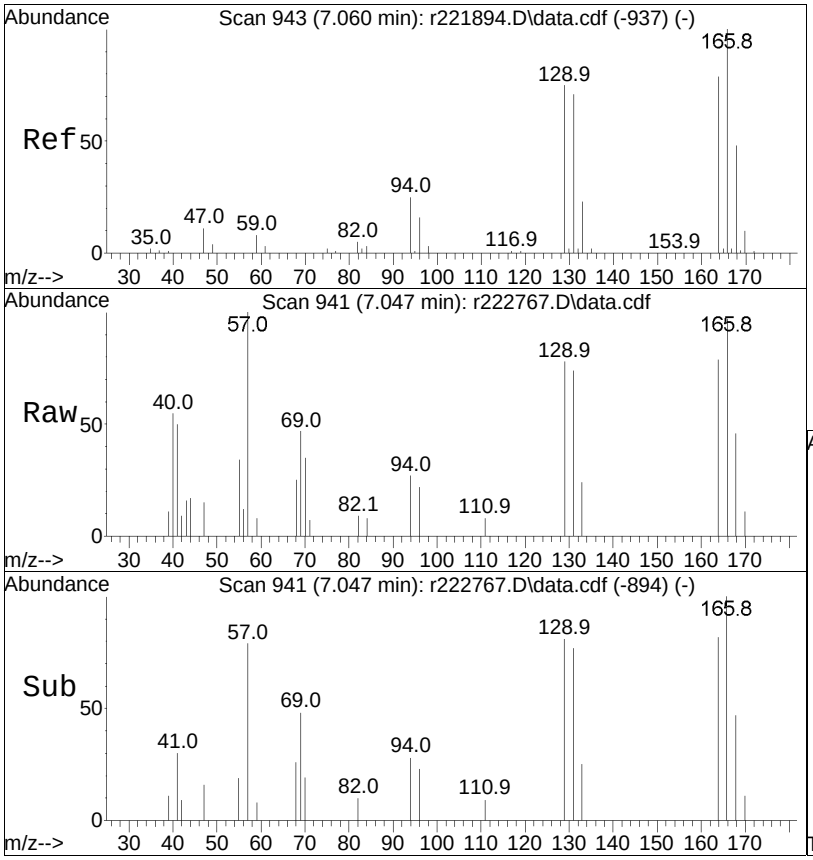


#72
2-hexanone
Concen: 0.08 ppbV m
RT: 6.647 min Scan# 881
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 43 Resp: 3164

Ion	Ratio	Lower	Upper
43	100		
58	41.1	49.2	73.8#
100	12.0	12.4	18.6#

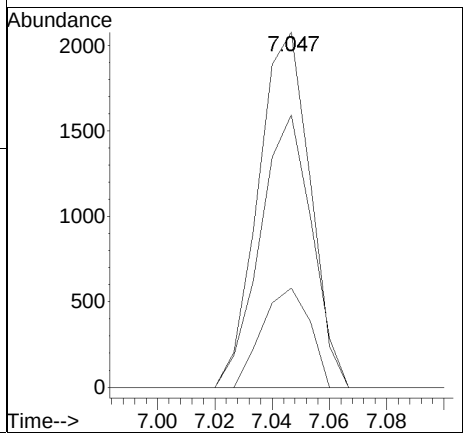


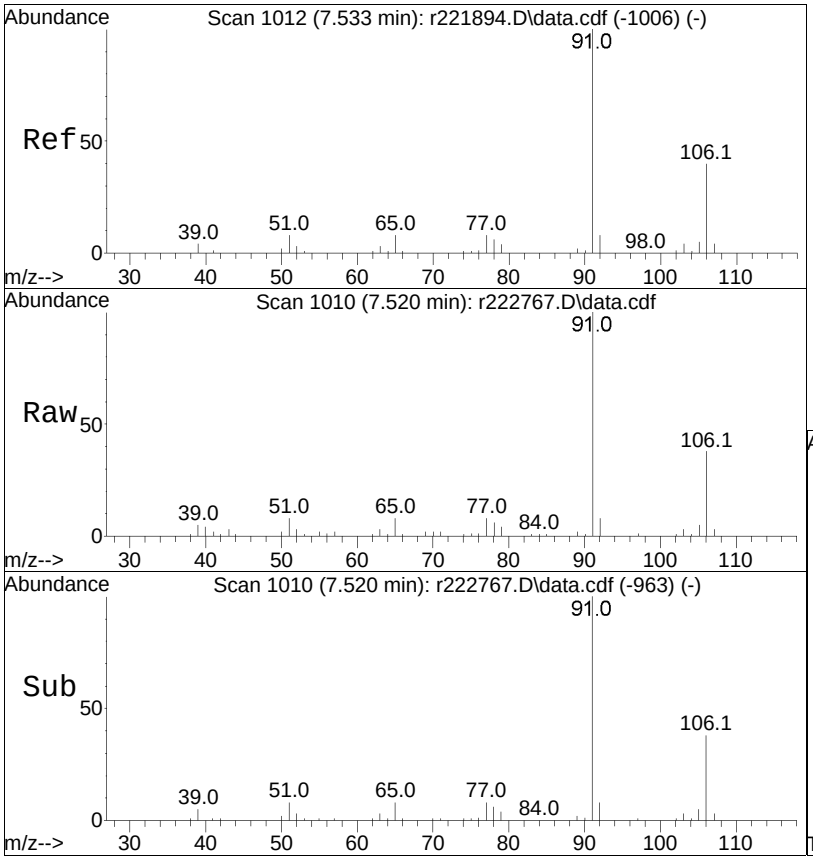


#78
tetrachloroethene
Concen: 0.10 ppbV
RT: 7.047 min Scan# 941
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion:166 Resp: 2612

Ion	Ratio	Lower	Upper
166	100		
131	76.7	56.9	85.3
94	28.0	19.8	29.8

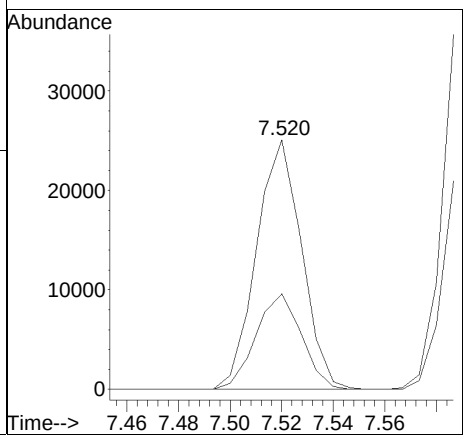


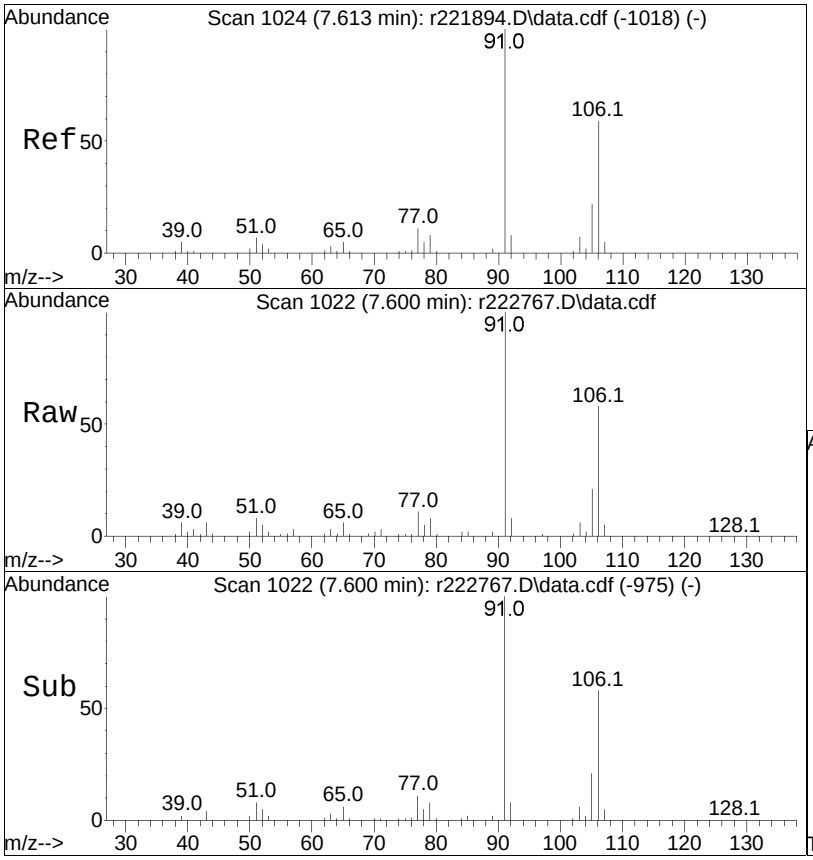


#81
ethylbenzene
Concen: 0.39 ppbV
RT: 7.520 min Scan# 1010
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 91 Resp: 30568

Ion	Ratio	Lower	Upper
91	100		
106	38.3	31.7	47.5

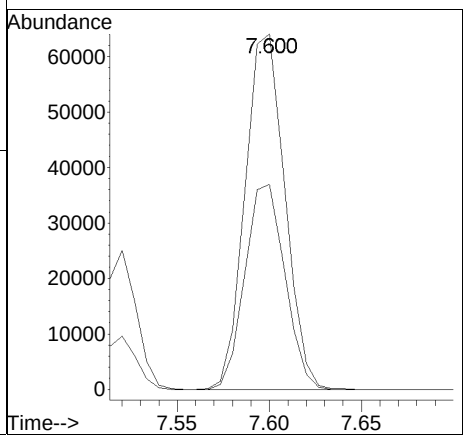


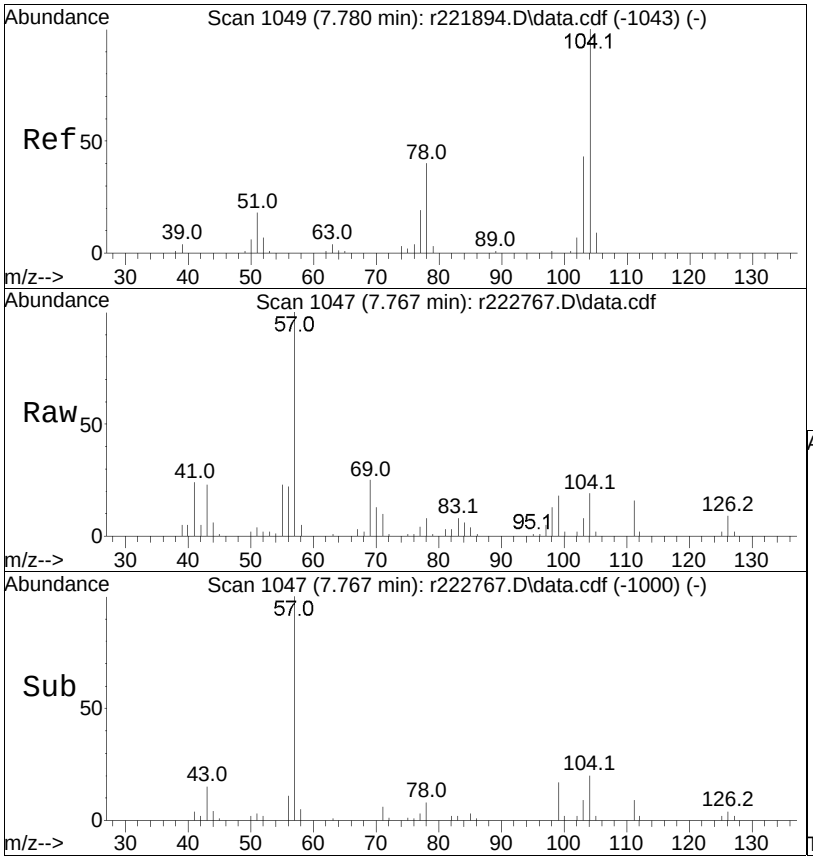


#83
m+p-xylene
Concen: 1.57 ppbV
RT: 7.600 min Scan# 1022
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 91 Resp: 96301

Ion	Ratio	Lower	Upper
91	100		
106	57.7	47.4	71.2

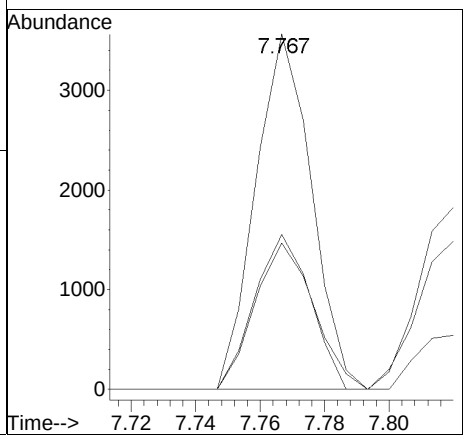


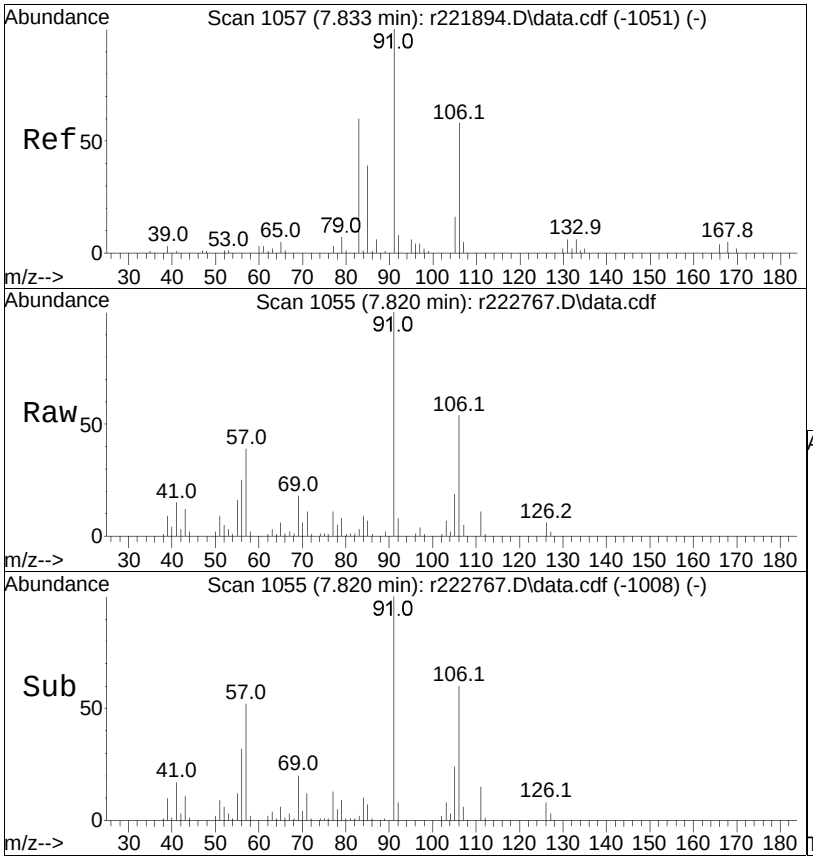


#85
styrene
Concen: 0.08 ppbV
RT: 7.767 min Scan# 1047
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion:104 Resp: 4292

Ion	Ratio	Lower	Upper
104	100		
103	43.6	34.3	51.5
78	41.2	32.3	48.5

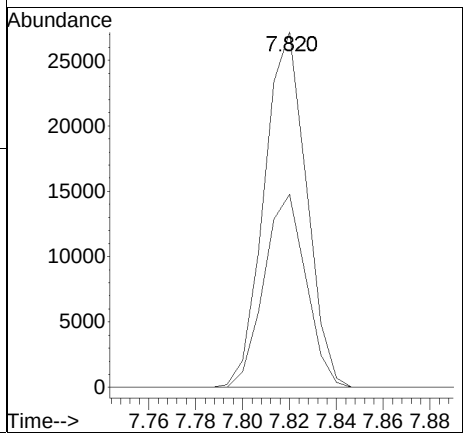


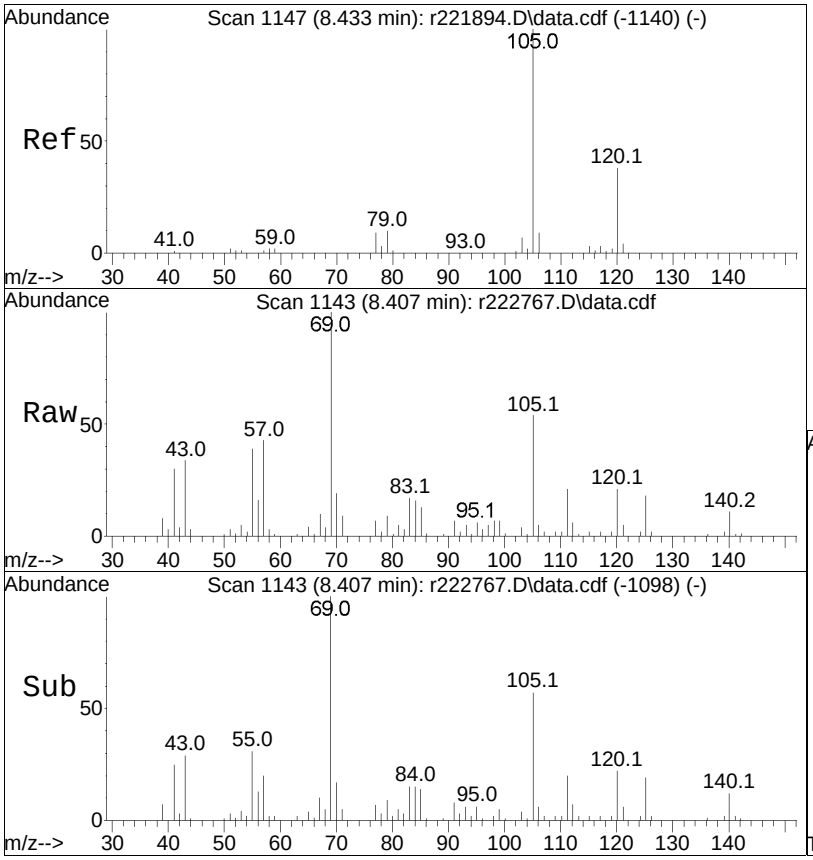


#87
o-xylene
Concen: 0.57 ppbV
RT: 7.820 min Scan# 1055
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 91 Resp: 34073

Ion	Ratio	Lower	Upper
91	100		
106	54.3	46.2	69.4

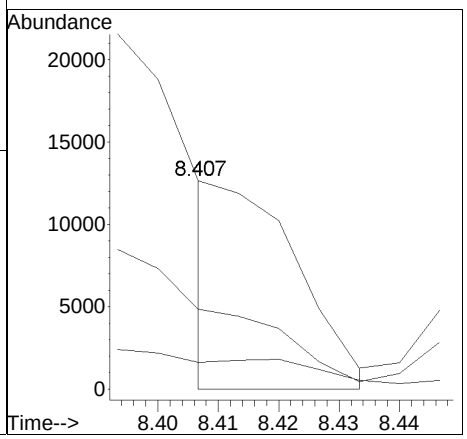


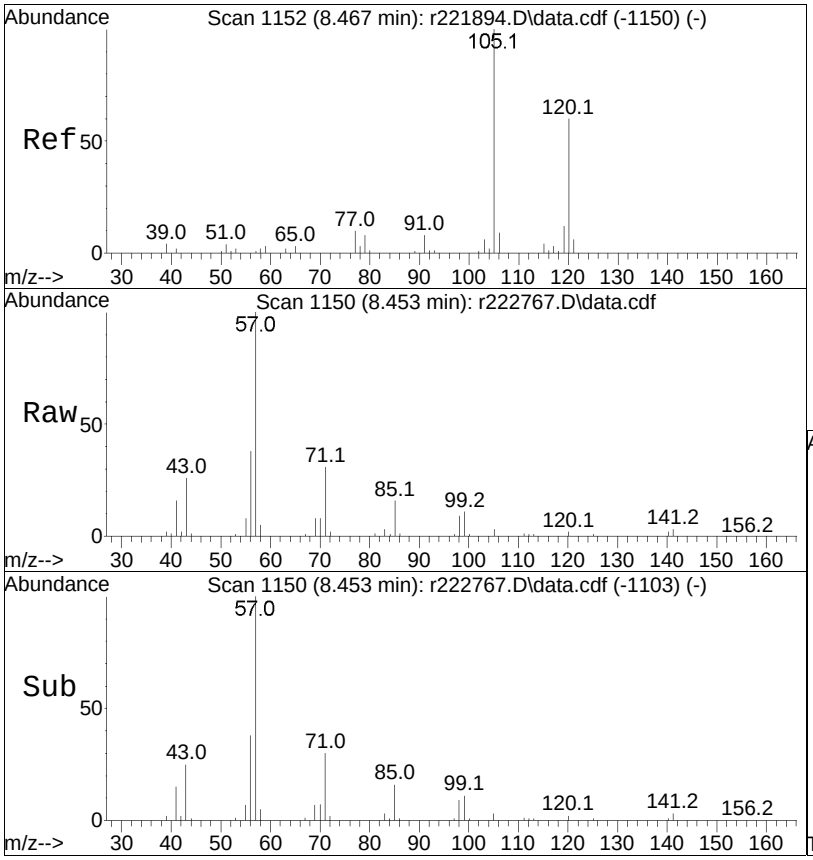


#96
4-ethyl toluene
Concen: 0.13 ppbV m
RT: 8.407 min Scan# 1143
Delta R.T. -0.027 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion:105 Resp: 11323

Ion	Ratio	Lower	Upper
105	100		
120	38.4	30.7	46.1
91	13.0	7.2	10.8#

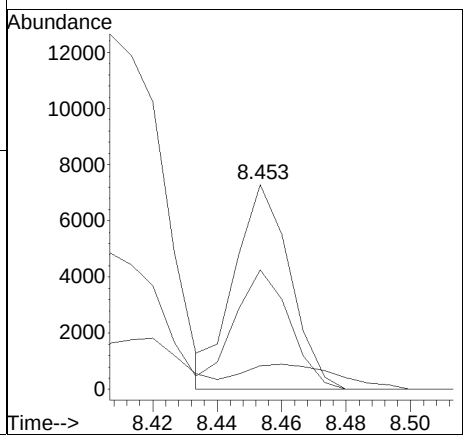


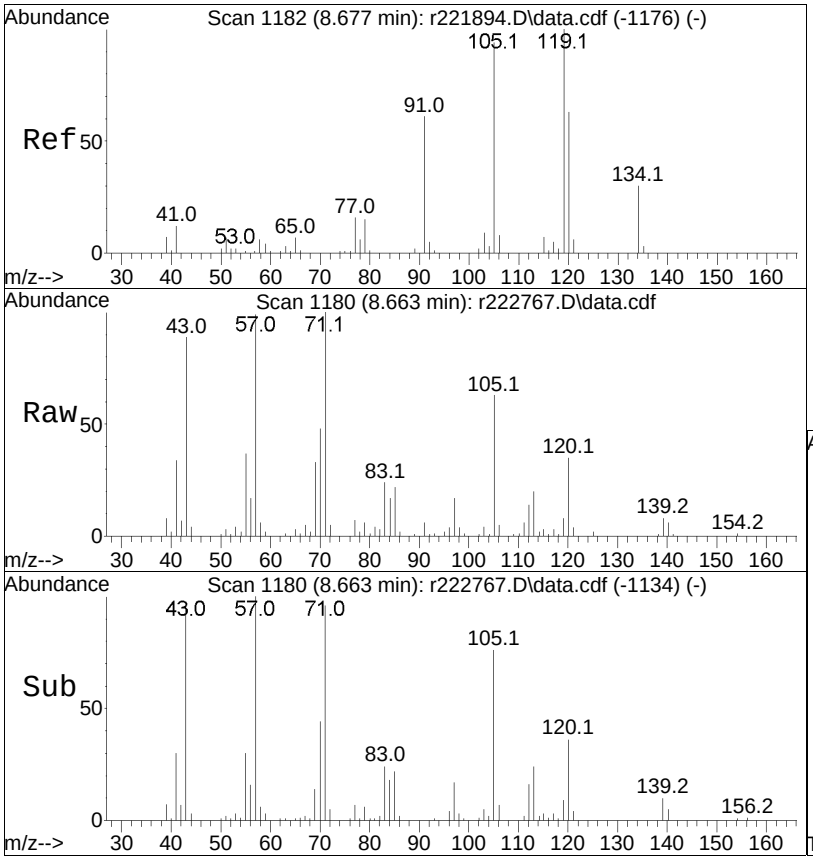


#97
1,3,5-trimethylbenzene
Concen: 0.12 ppbV
RT: 8.453 min Scan# 1150
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion:105 Resp: 8701

Ion	Ratio	Lower	Upper
105	100		
120	58.4	47.8	71.8
91	11.6	6.6	10.0#

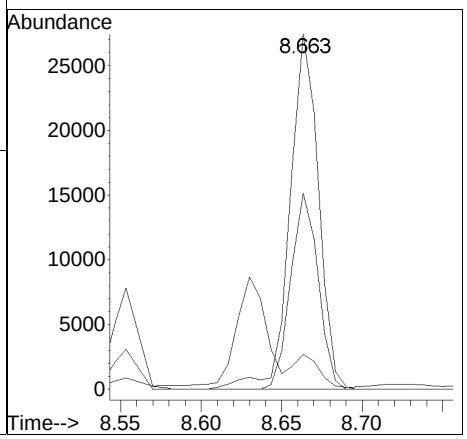




#99
1,2,4-trimethylbenzene
Concen: 0.49 ppbV
RT: 8.663 min Scan# 1180
Delta R.T. -0.013 min
Lab File: r222767.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion:105 Resp: 34020

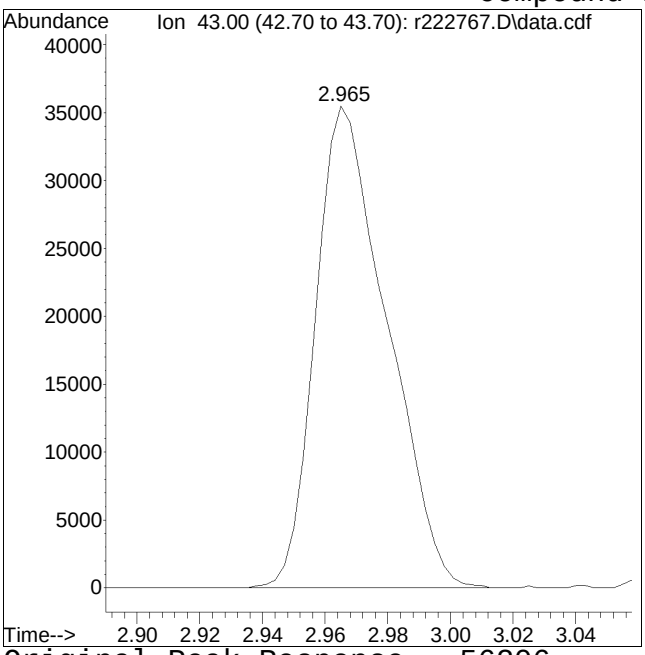
Ion	Ratio	Lower	Upper
105	100		
120	55.2	53.8	80.8
91	9.9	52.2	78.2#



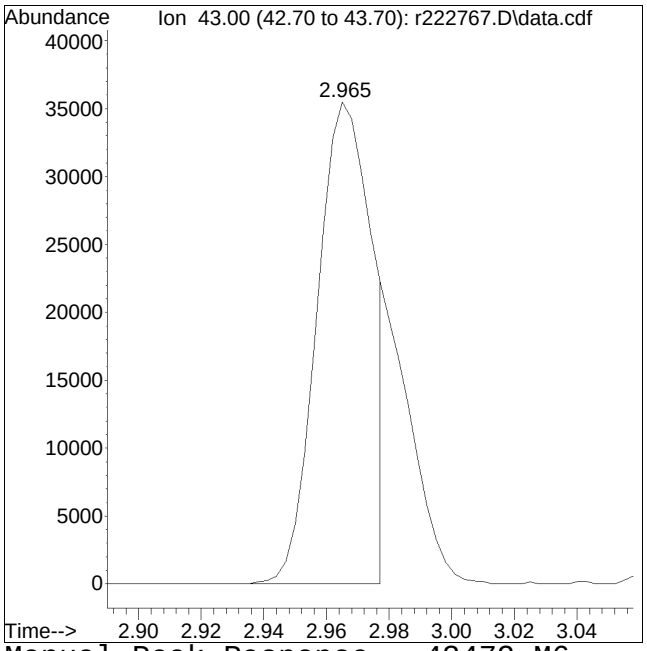
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222767.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:9: 0 Instrument :
Sample : L2409206-11,3,250,250 Quant Date : 3/2/2024 8:08 am

Compound #19: acetone



Original Peak Response = 56206



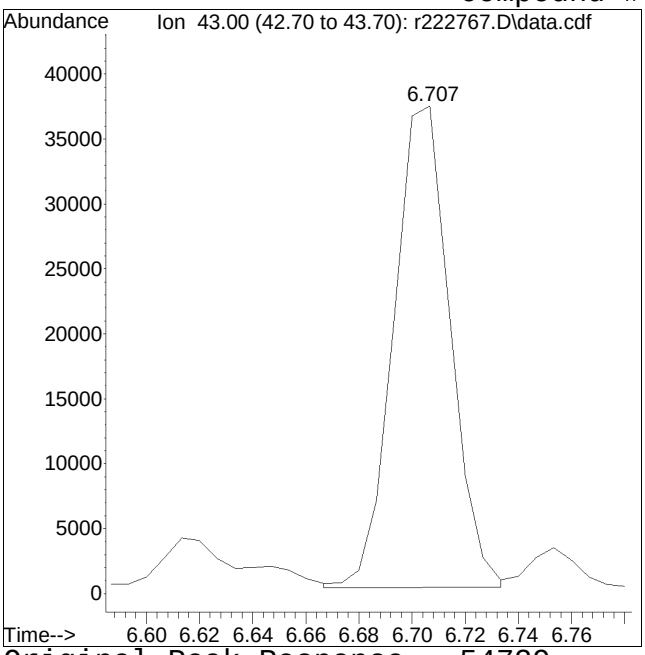
Manual Peak Response = 43472 M6

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

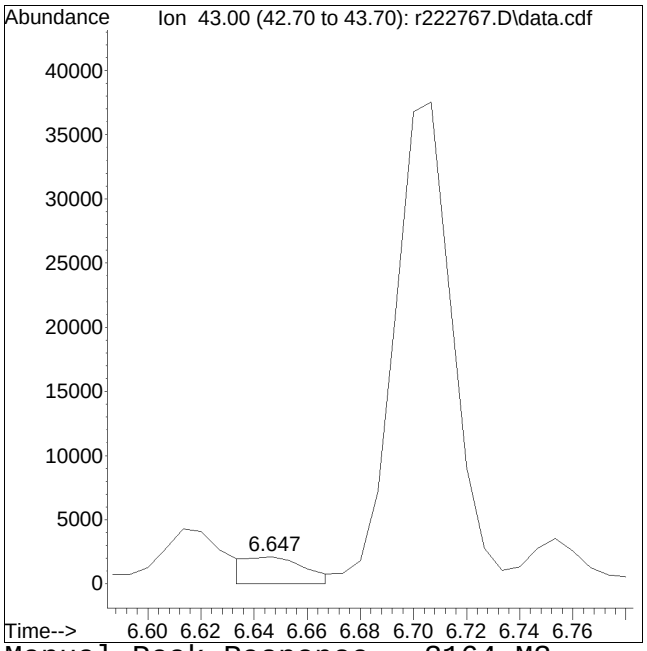
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222767.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:9: 0 Instrument :
Sample : L2409206-11,3,250,250 Quant Date : 3/2/2024 8:08 am

Compound #72: 2-hexanone



Original Peak Response = 54729



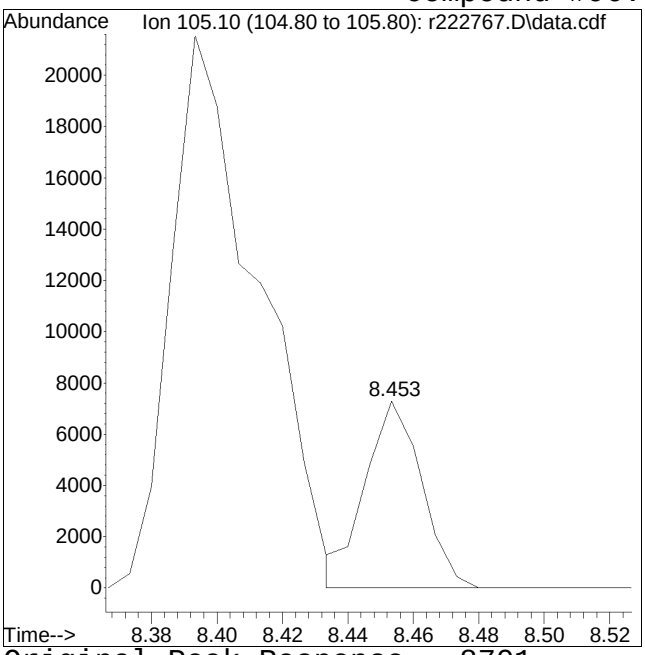
Manual Peak Response = 3164 M3

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

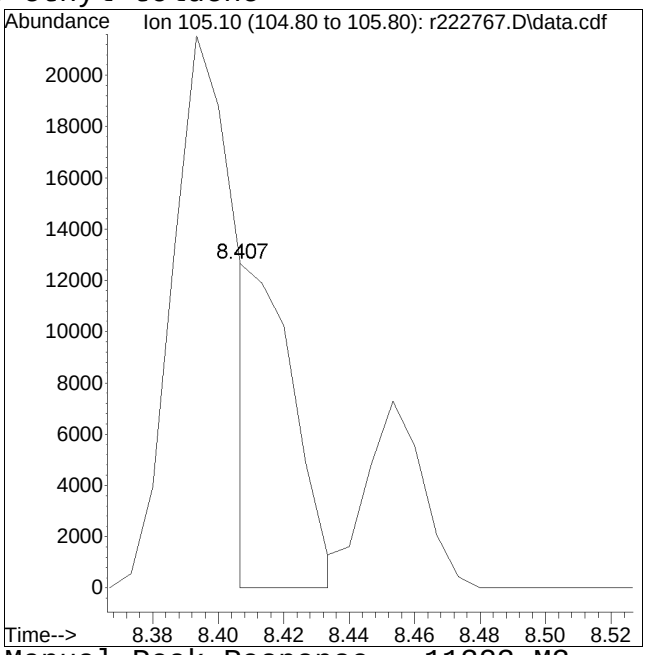
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222767.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:9: 0 Instrument :
Sample : L2409206-11,3,250,250 Quant Date : 3/2/2024 8:08 am

Compound #96: 4-ethyl toluene



Original Peak Response = 8701



Manual Peak Response = 11323 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222768.D
Acq On : 1 Mar 2024 9:32 PM
Operator : AIRLAB22:BJB
Sample : L2409206-13,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:48 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.430	49	223004	10.000	ppbV	-0.02
Standard Area = 199252			Recovery = 111.92%			
43) 1,4-difluorobenzene	5.363	114	707768	10.000	ppbV	-0.01
Standard Area = 623148			Recovery = 113.58%			
67) chlorobenzene-D5	7.333	54	76220	10.000	ppbV	-0.01
Standard Area = 82823			Recovery = 92.03%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.200	85	6539	0.364	ppbV	99
6) chloromethane	2.300	50	12593	1.292	ppbV	96
7) Freon-114	2.360		0	N.D.		
9) vinyl chloride	2.285		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	2.625		0	N.D.		
14) chloroethane	2.705		0	N.D.		
15) ethanol	2.745	31	51924	14.496	ppbV	96
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.971	43	26859M6	3.744	ppbV	
21) trichlorofluoromethane	3.046	101	2265	0.236	ppbV	91
22) isopropyl alcohol	3.073	45	12518	1.052	ppbV	100
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	3.365	59	56451	2.107	ppbV	96
28) methylene chloride	3.400	49	10156	0.575	ppbV	96
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	3.545	76	9912	0.202	ppbV #	85
31) Freon 113	3.530	101	1759	0.065	ppbV	93
32) trans-1,2-dichloroethene	3.850	61	1151	0.050	ppbV	96
33) 1,1-dichloroethane	3.857		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
36) 2-butanone	4.143	43	43329	1.197	ppbV	99
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	4.497		0	N.D.		
40) Tetrahydrofuran	4.690	42	16732	0.726	ppbV	97
42) 1,2-dichloroethane	4.850		0	N.D.		
44) hexane	4.457	57	12730	0.509	ppbV #	2

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222768.D
Acq On : 1 Mar 2024 9:32 PM
Operator : AIRLAB22:BJB
Sample : L2409206-13,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:48 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	5.197	78	17361	0.329	ppbV	100
52) carbon tetrachloride	5.263	117	1174	0.067	ppbV #	87
53) cyclohexane	5.330	56	5367	0.187	ppbV	96
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	5.670		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	5.690	130	2544	0.122	ppbV	96
60) 2,2,4-trimethylpentane	5.710	57	89738	1.124	ppbV	98
62) heptane	5.830	43	11248	0.356	ppbV	98
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	6.107	43	3950M6	0.113	ppbV	
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	6.353		0	N.D.		
68) toluene	6.533	91	49110	0.772	ppbV	100
72) 2-hexanone	0.000		0	N.D. d		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	7.040	166	1782	0.072	ppbV	96
80) chlorobenzene	0.000		0	N.D. d		
81) ethylbenzene	7.520	91	13612	0.177	ppbV	99
83) m+p-xylene	7.593	91	37732	0.630	ppbV	99
84) bromoform	0.000		0	N.D.		
85) styrene	7.767		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D. d		
87) o-xylene	7.820	91	13025	0.223	ppbV	95
96) 4-ethyl toluene	8.407		0	N.D.		
97) 1,3,5-trimethylbenzene	8.453	105	4301	0.061	ppbV #	97
99) 1,2,4-trimethylbenzene	8.663	105	12032	0.178	ppbV #	58
101) Benzyl Chloride	8.883		0	N.D.		
102) 1,3-dichlorobenzene	8.777		0	N.D.		
103) 1,4-dichlorobenzene	8.777		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\Airlab22\2024\03\0301T\
Data File : r222768.D
Acq On : 1 Mar 2024 9:32 PM
Operator : AIRLAB22:BJB
Sample : L2409206-13,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:48 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

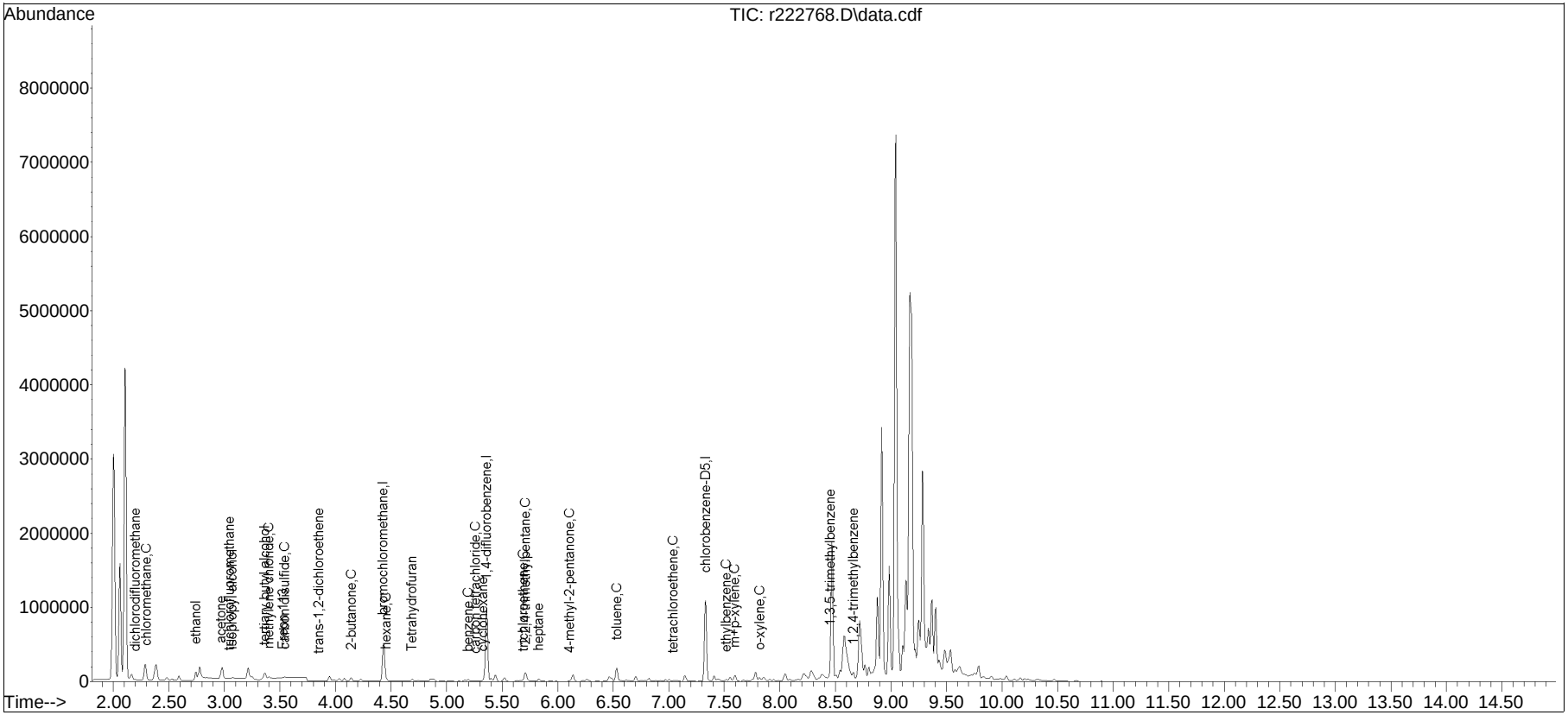
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

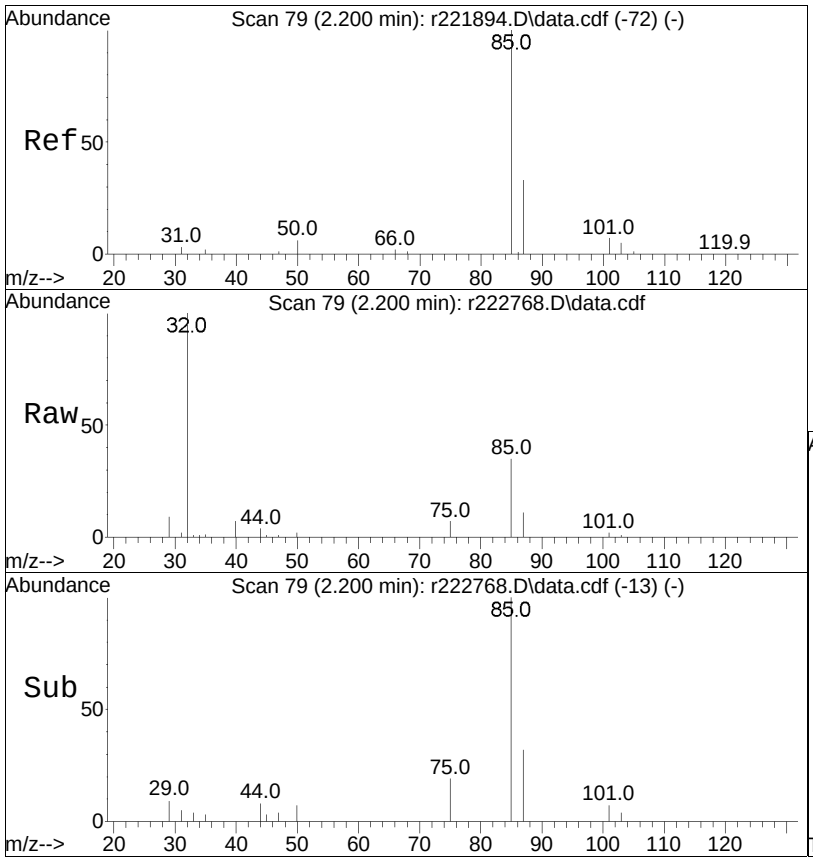
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : TO15-NY+Naphthalene - .b22\2024\03\0301T\r222756.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222768.D
Acq On : 1 Mar 2024 9:32 PM
Operator : AIRLAB22:BJB
Sample : L2409206-13,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:08:48 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

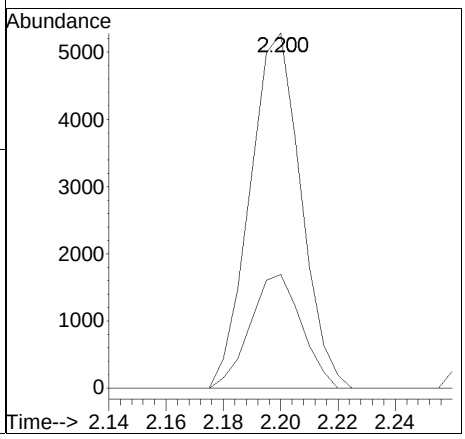


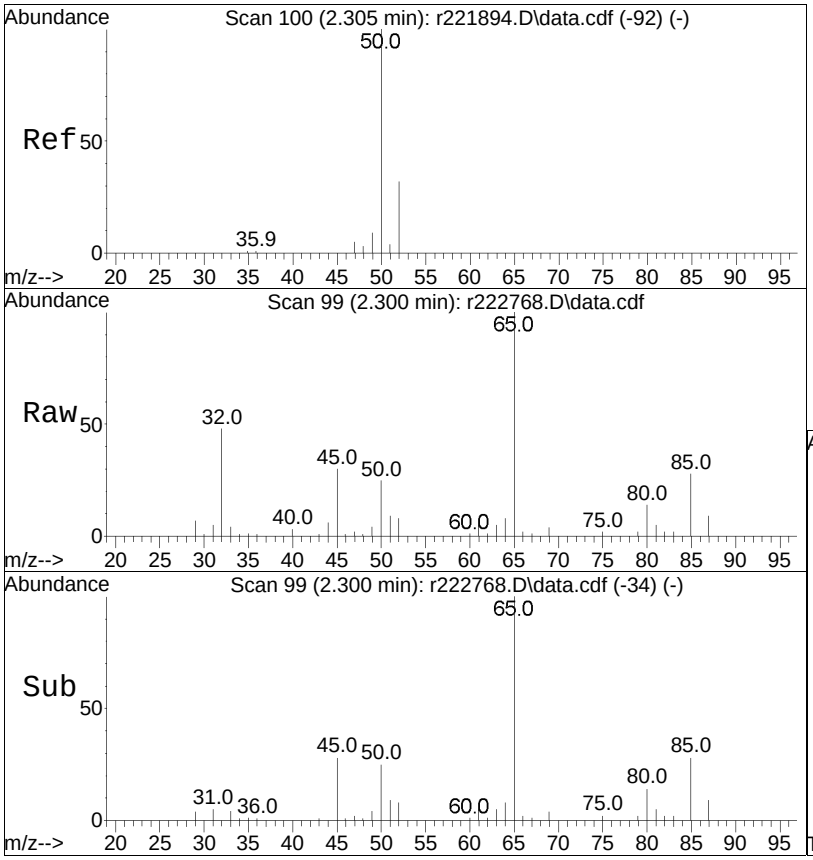


#5
dichlorodifluoromethane
Concen: 0.36 ppbV
RT: 2.200 min Scan# 79
Delta R.T. 0.000 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 85 Resp: 6539

Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.3	39.5

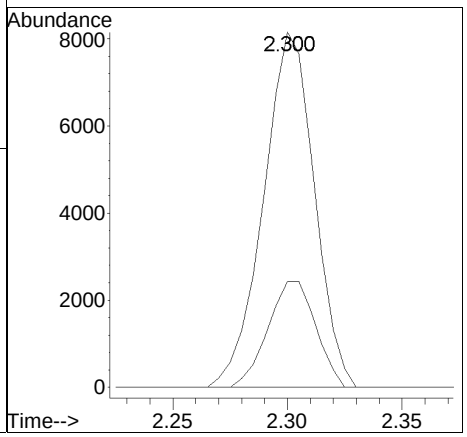


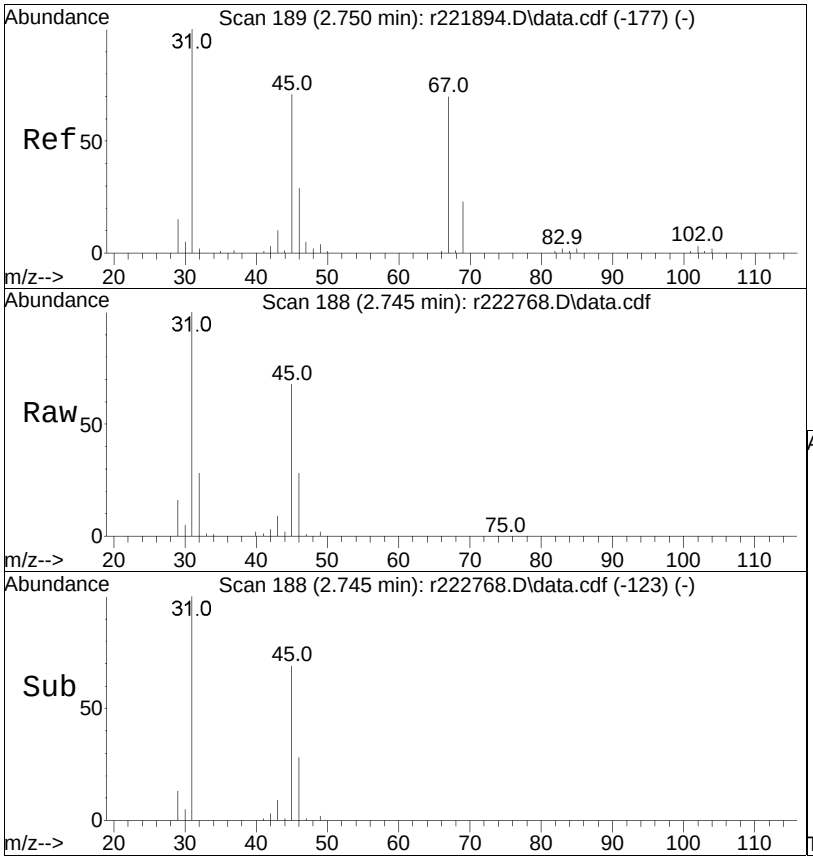


#6
chloromethane
Concen: 1.29 ppbV
RT: 2.300 min Scan# 99
Delta R.T. -0.005 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 50 Resp: 12593

Ion	Ratio	Lower	Upper
50	100		
52	29.8	25.5	38.3

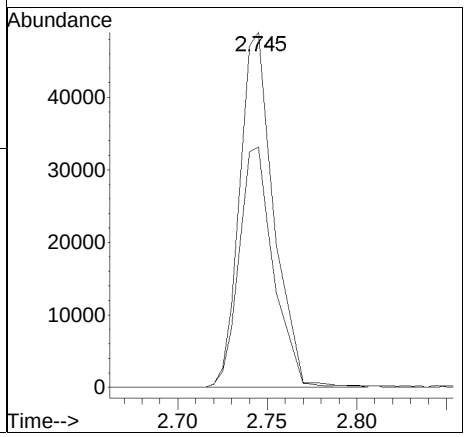


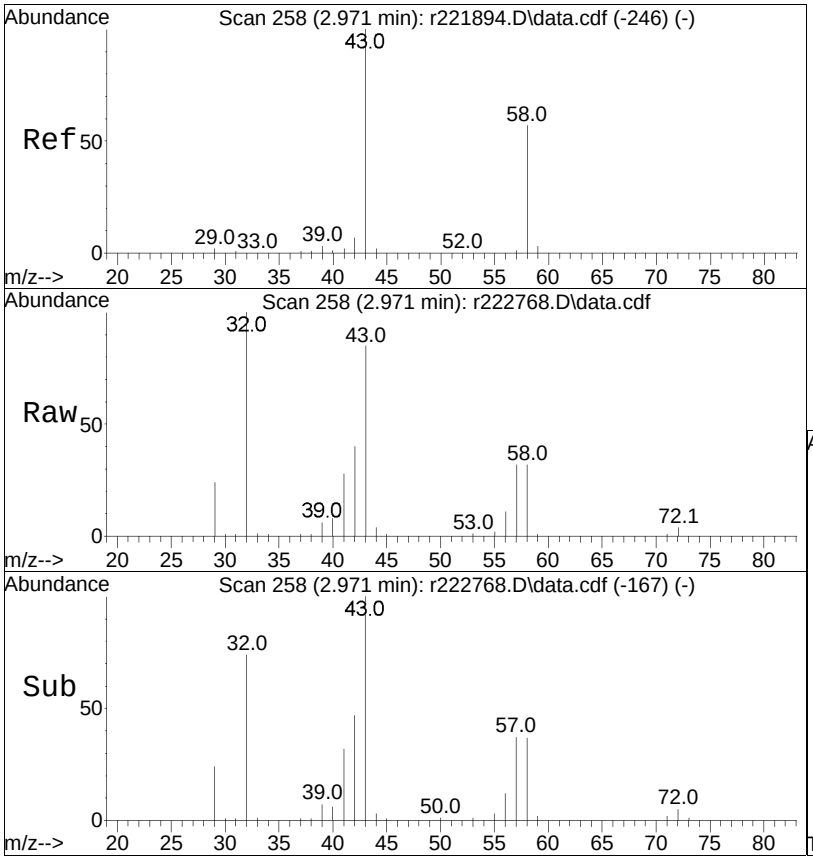


#15
ethanol
Concen: 14.50 ppbV
RT: 2.745 min Scan# 188
Delta R.T. -0.005 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 31 Resp: 51924

Ion	Ratio	Lower	Upper
31	100		
45	67.7	56.6	84.8

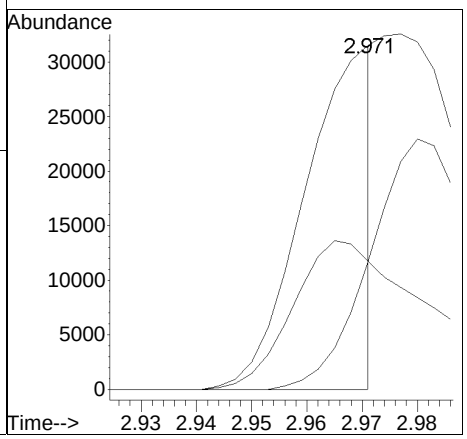


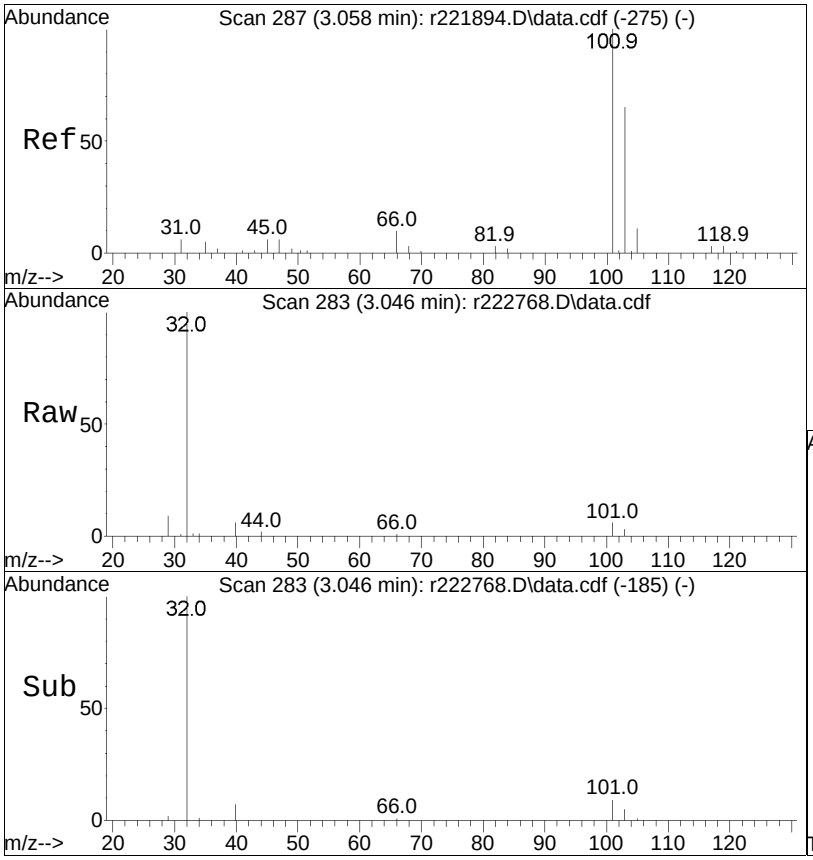


#19
acetone
Concen: 3.74 ppbV m
RT: 2.971 min Scan# 258
Delta R.T. 0.000 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 43 Resp: 26859

Ion	Ratio	Lower	Upper
43	100		
58	37.4	45.5	68.3#
57	36.9	1.0	1.6#

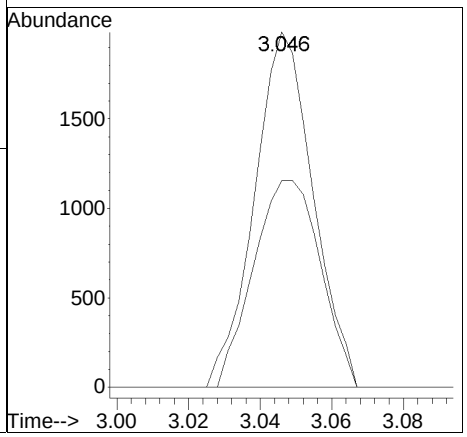


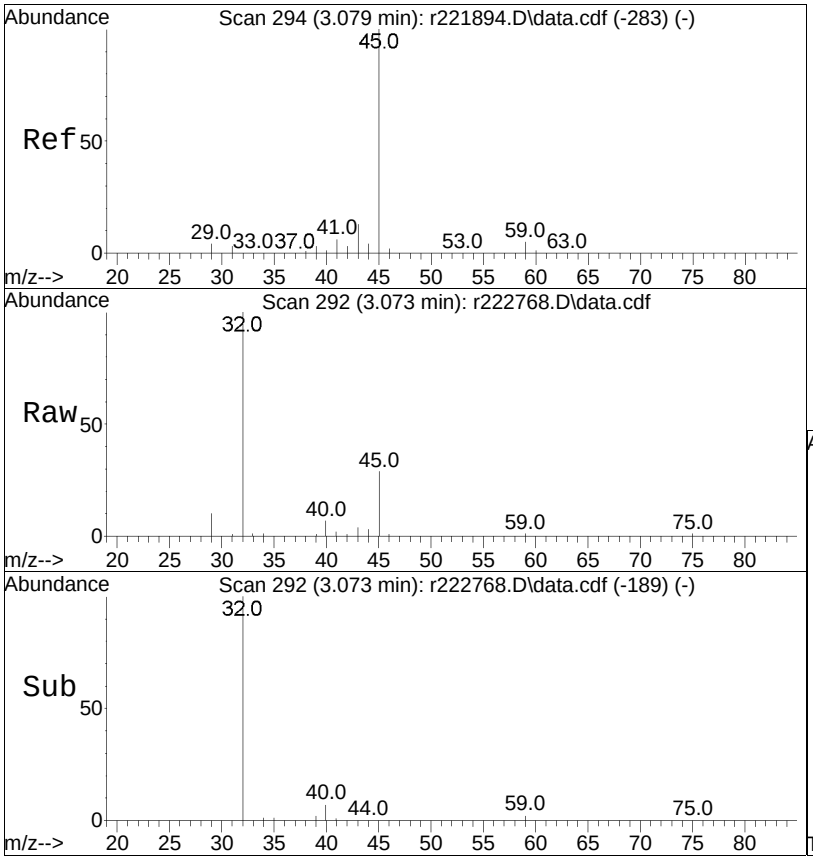


#21
trichlorofluoromethane
Concen: 0.24 ppbV
RT: 3.046 min Scan# 283
Delta R.T. -0.012 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion:101 Resp: 2265

Ion	Ratio	Lower	Upper
101	100		
103	58.2	52.2	78.4

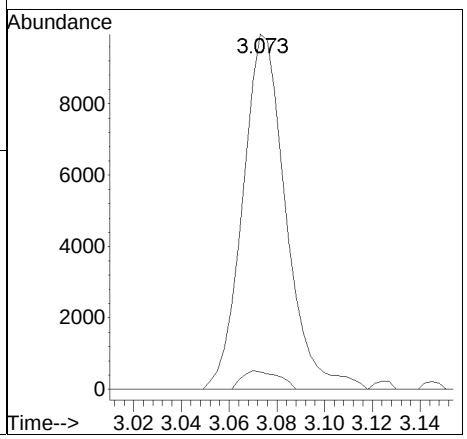


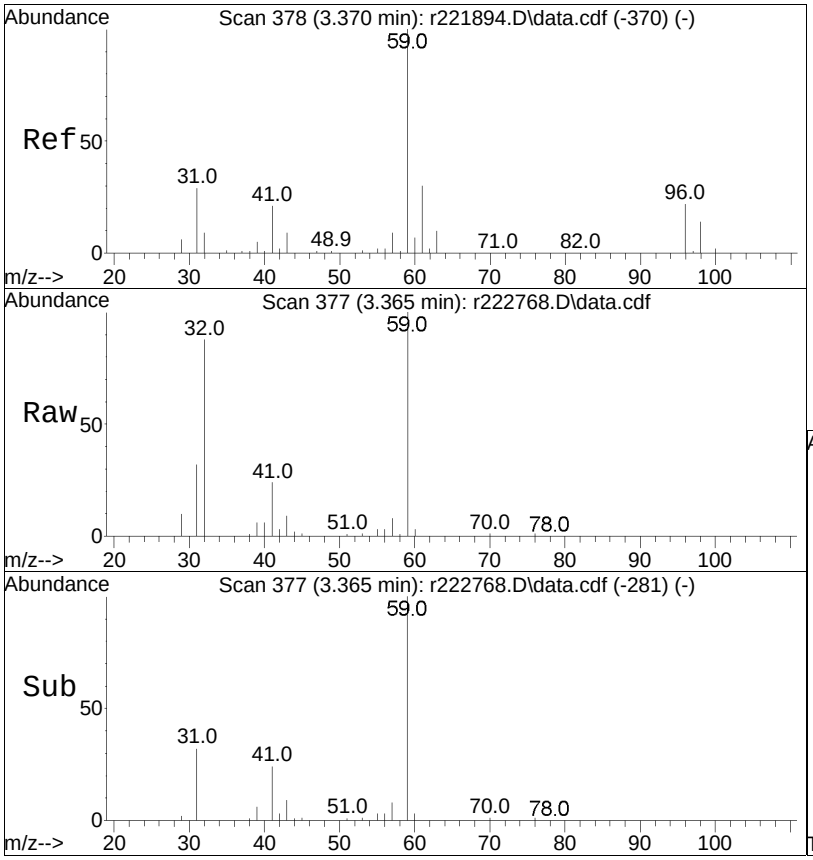


#22
isopropyl alcohol
Concen: 1.05 ppbV
RT: 3.073 min Scan# 292
Delta R.T. -0.006 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 45 Resp: 12518

Ion	Ratio	Lower	Upper
45	100		
59	4.9	4.0	6.0

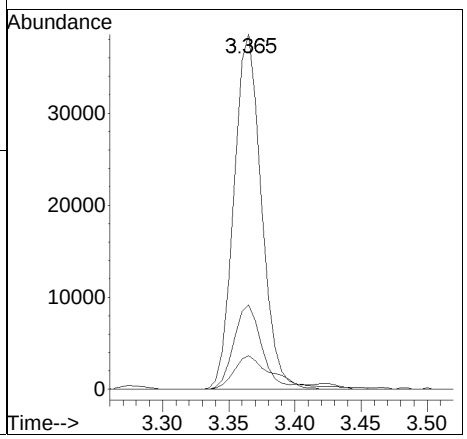


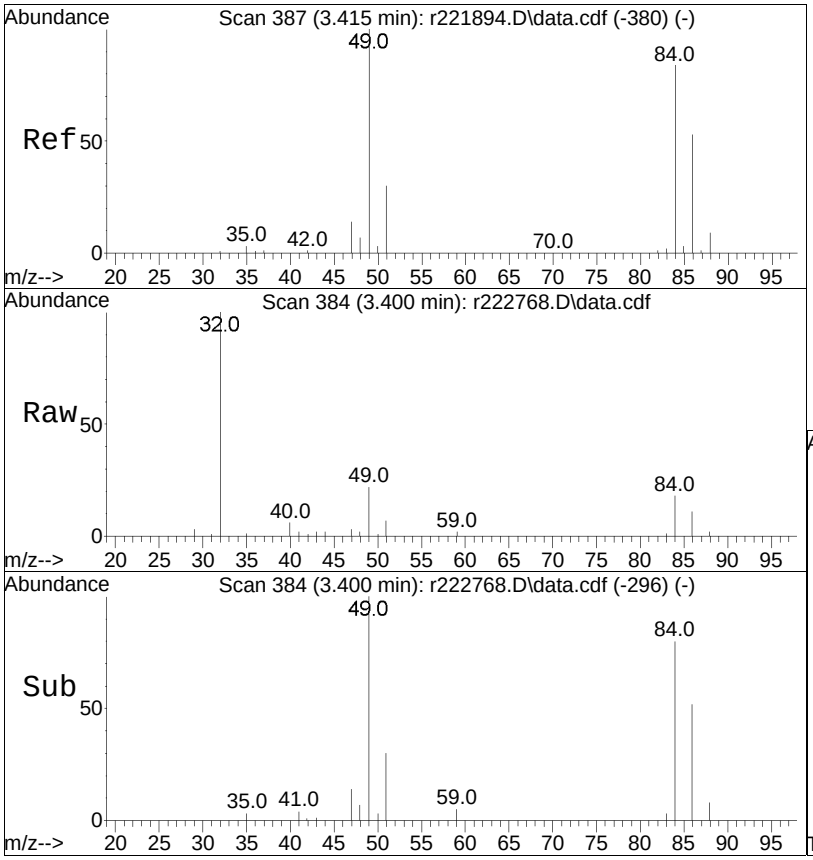


#27
tertiary butyl alcohol
Concen: 2.11 ppbV
RT: 3.365 min Scan# 377
Delta R.T. -0.005 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 59 Resp: 56451

Ion	Ratio	Lower	Upper
59	100		
41	23.7	16.9	25.3
43	9.5	7.5	11.3

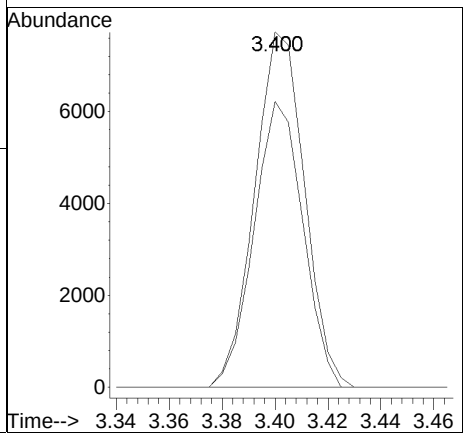


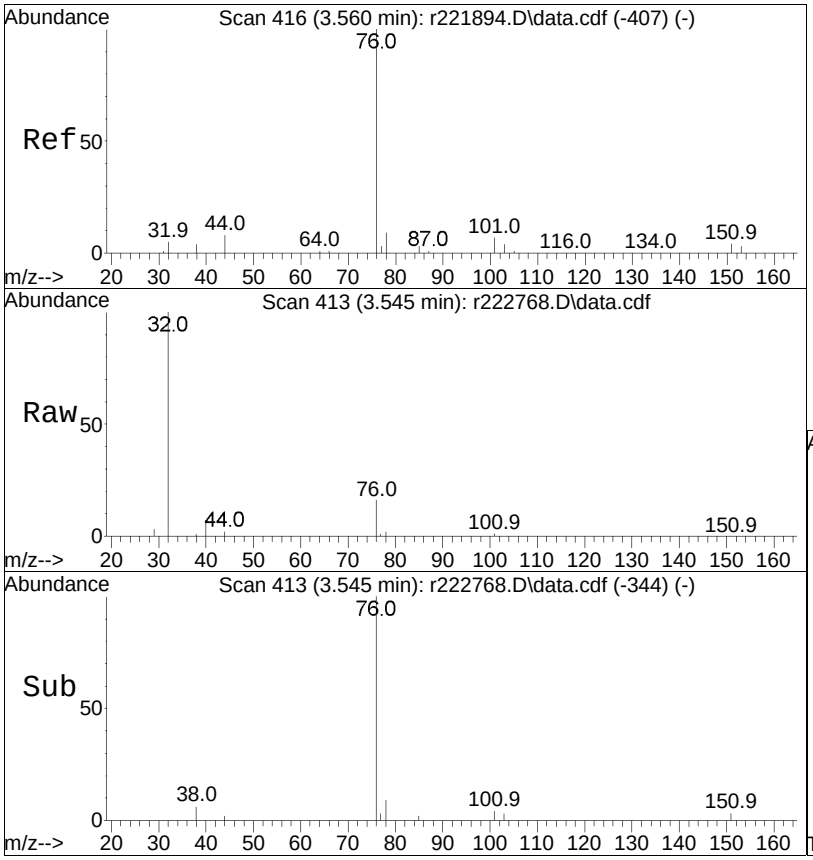


#28
methylene chloride
Concen: 0.57 ppbV
RT: 3.400 min Scan# 384
Delta R.T. -0.015 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 49 Resp: 10156

Ion	Ratio	Lower	Upper
49	100		
84	80.5	67.2	100.8

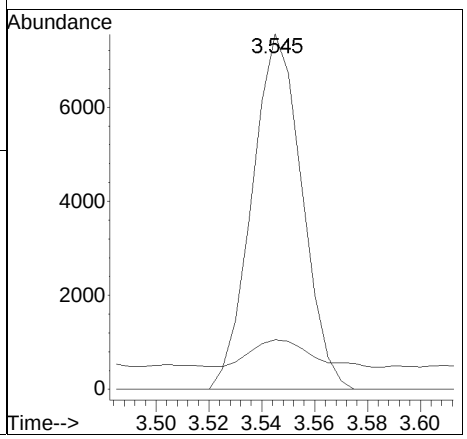


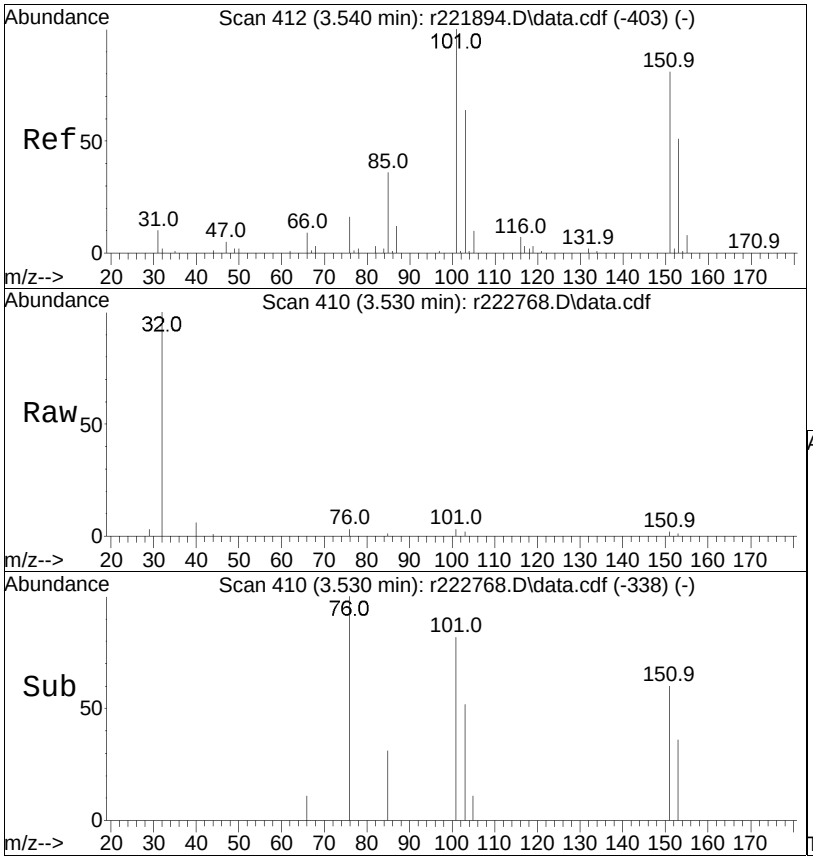


#30
carbon disulfide
Concen: 0.20 ppbV
RT: 3.545 min Scan# 413
Delta R.T. -0.015 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 76 Resp: 9912

Ion	Ratio	Lower	Upper
76	100		
44	14.0	6.8	10.2#

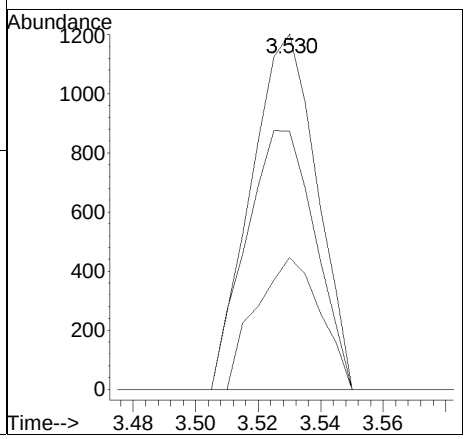


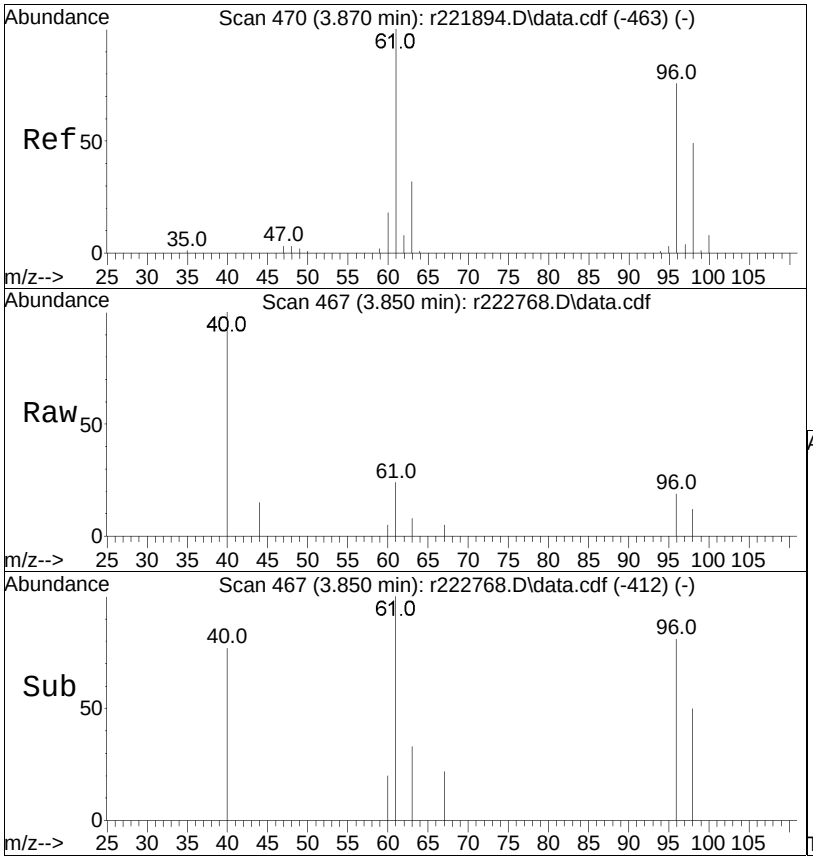


#31
Freon 113
Concen: 0.07 ppbV
RT: 3.530 min Scan# 410
Delta R.T. -0.010 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion:101 Resp: 1759

Ion	Ratio	Lower	Upper
101	100		
85	37.1	28.6	43.0
151	72.6	64.6	97.0

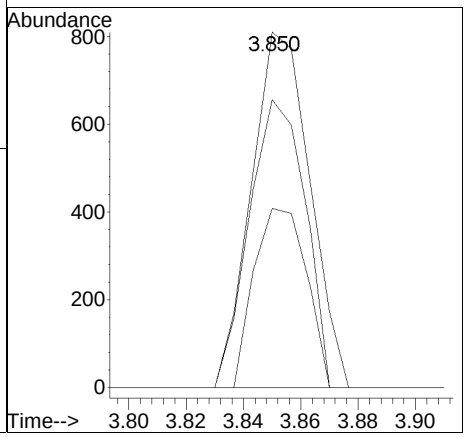


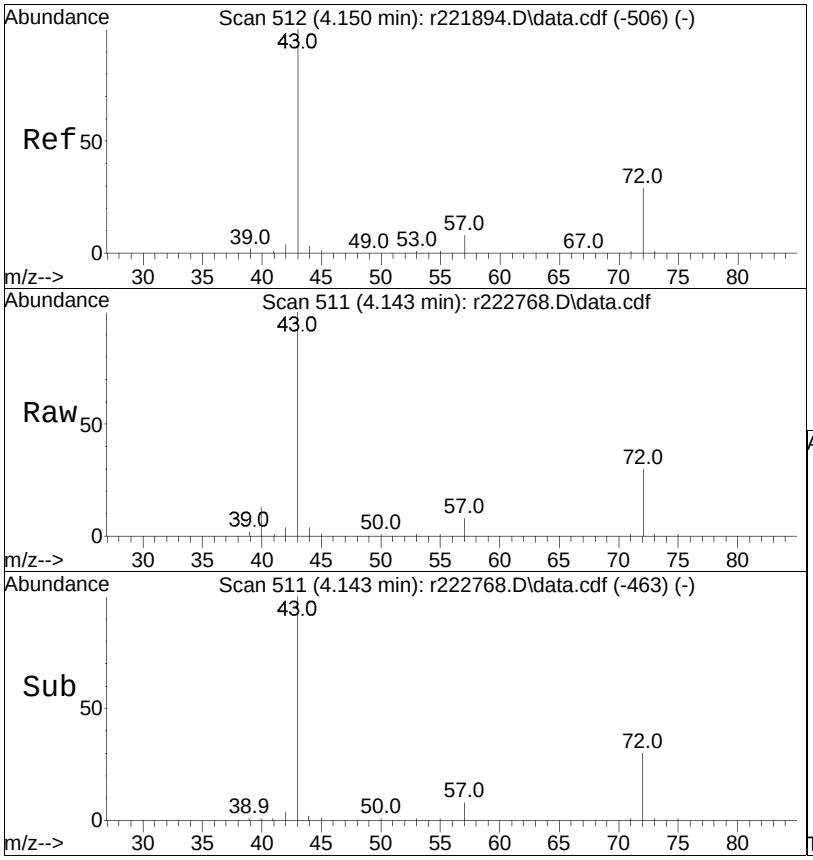


#32
trans-1,2-dichloroethene
Concen: 0.05 ppbV
RT: 3.850 min Scan# 467
Delta R.T. -0.020 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 61 Resp: 1151

Ion	Ratio	Lower	Upper
61	100		
96	81.0	61.0	91.6
98	50.4	39.0	58.6

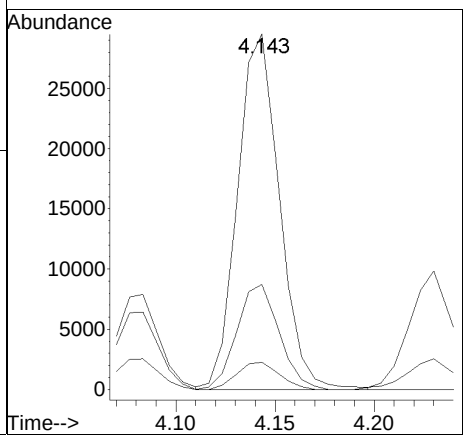


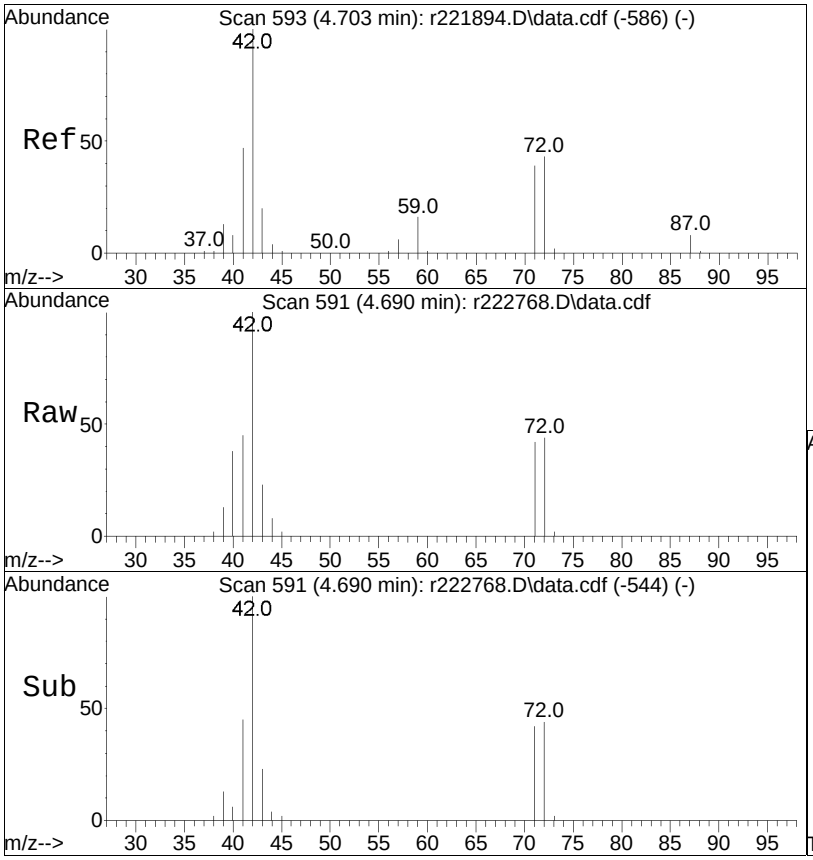


#36
2-butanone
Concen: 1.20 ppbV
RT: 4.143 min Scan# 511
Delta R.T. -0.007 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 43 Resp: 43329

Ion	Ratio	Lower	Upper
43	100		
72	29.6	23.0	34.6
57	7.7	6.3	9.5

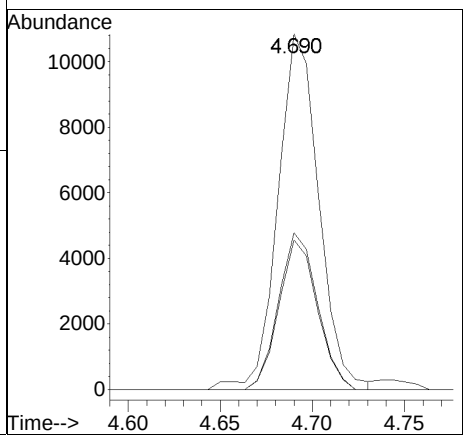


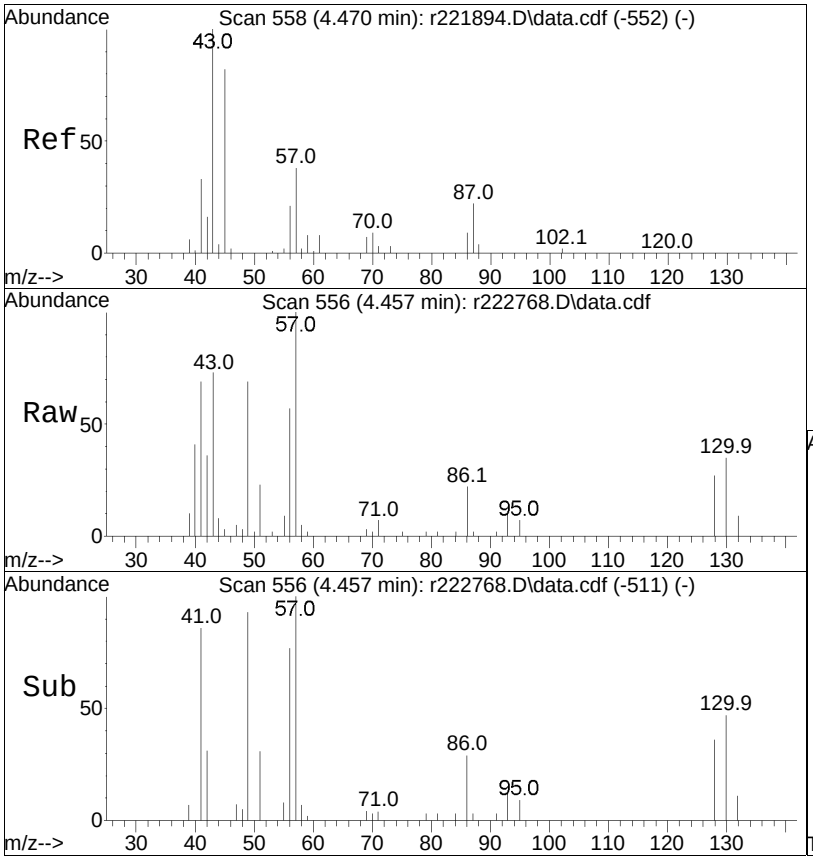


#40
Tetrahydrofuran
Concen: 0.73 ppbV
RT: 4.690 min Scan# 591
Delta R.T. -0.013 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 42 Resp: 16732

Ion	Ratio	Lower	Upper
42	100		
71	42.1	31.4	47.2
72	44.1	34.3	51.5

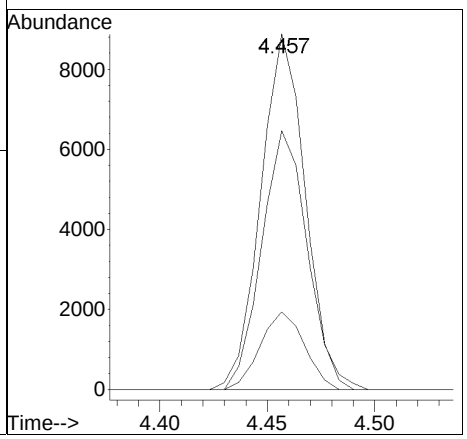


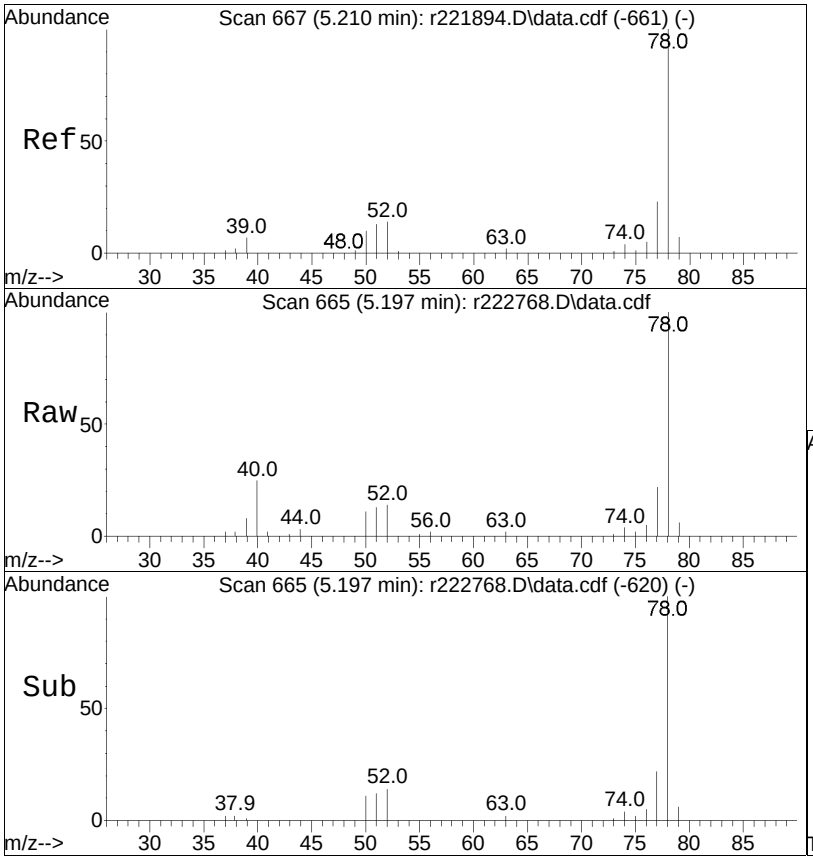


#44
hexane
Concen: 0.51 ppbV
RT: 4.457 min Scan# 556
Delta R.T. -0.013 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 57 Resp: 12730

Ion	Ratio	Lower	Upper
57	100		
43	72.8	210.8	316.2#
86	21.9	17.9	26.9

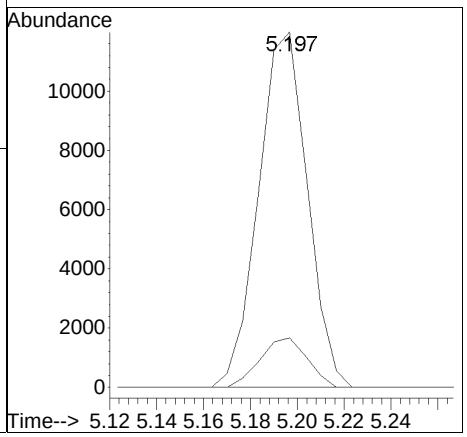


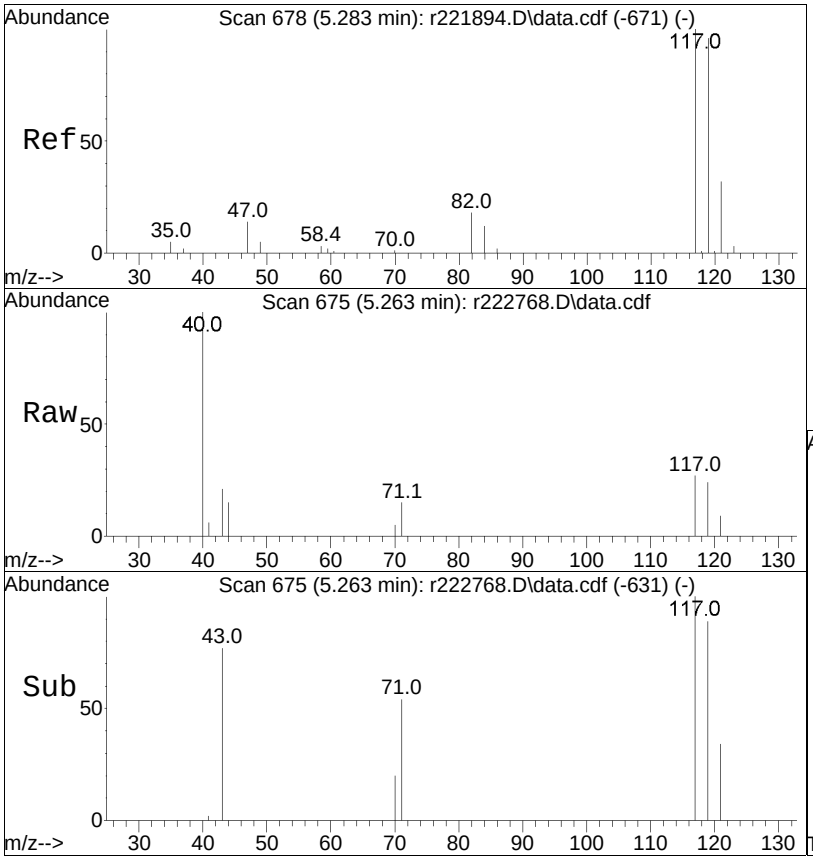


#50
benzene
Concen: 0.33 ppbV
RT: 5.197 min Scan# 665
Delta R.T. -0.013 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 78 Resp: 17361

Ion	Ratio	Lower	Upper
78	100		
52	14.0	11.3	16.9

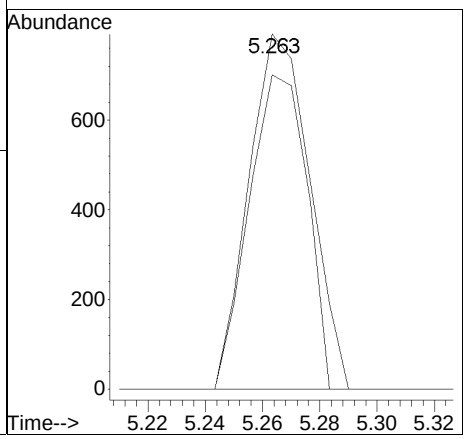


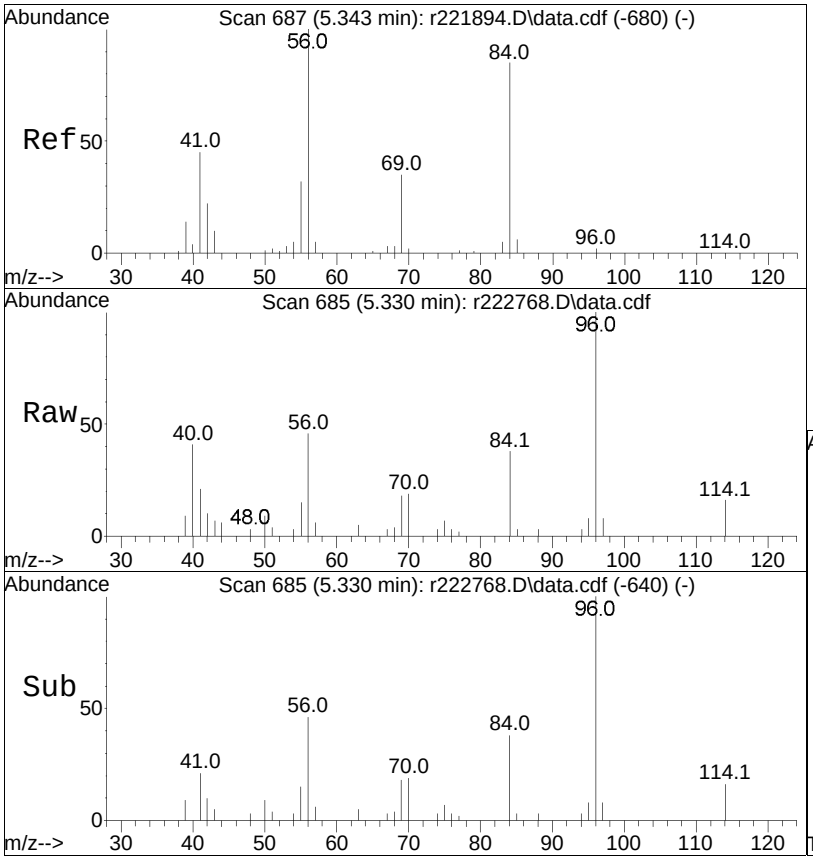


#52
carbon tetrachloride
Concen: 0.07 ppbV
RT: 5.263 min Scan# 675
Delta R.T. -0.020 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion:117 Resp: 1174

Ion	Ratio	Lower	Upper
117	100		
119	88.5	76.5	114.7
82	0.0	14.7	22.1#

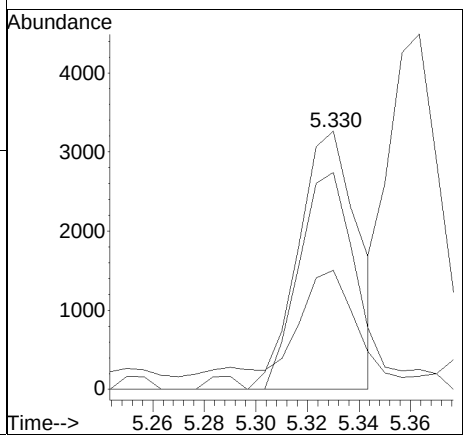


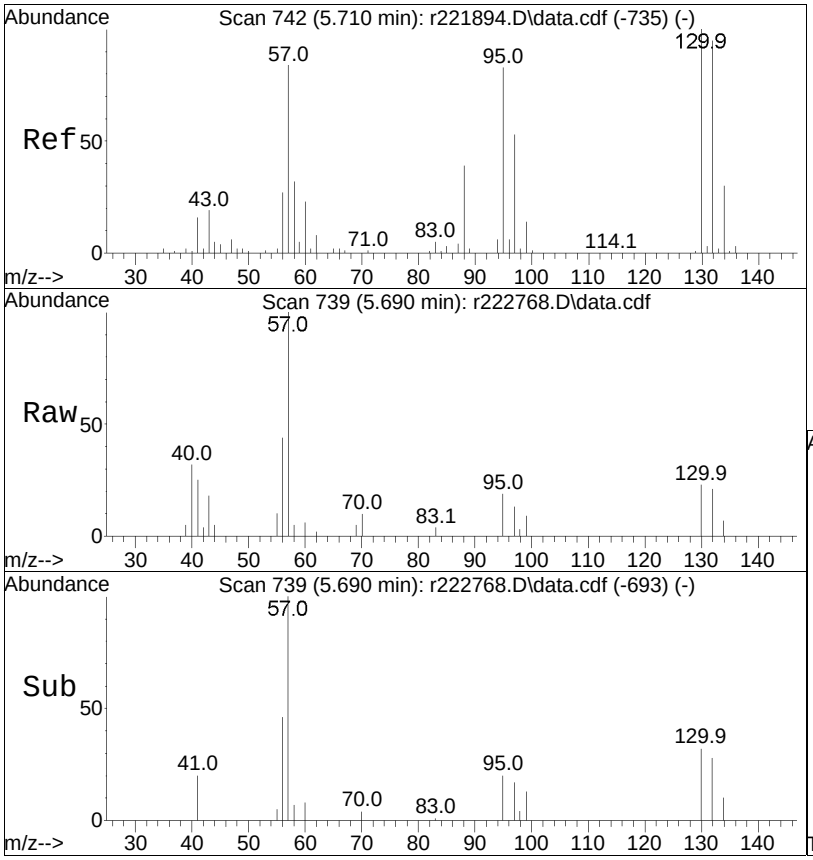


#53
cyclohexane
Concen: 0.19 ppbV
RT: 5.330 min Scan# 685
Delta R.T. -0.013 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 56 Resp: 5367

Ion	Ratio	Lower	Upper
56	100		
84	84.0	70.9	106.3
41	46.1	35.8	53.6

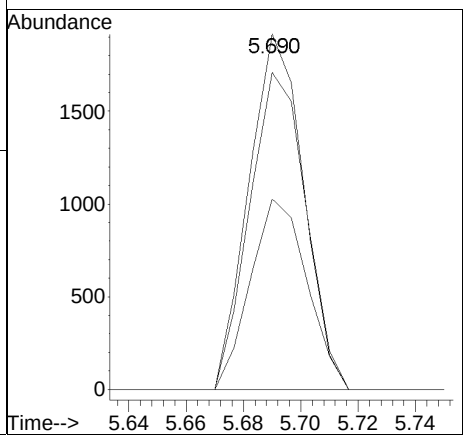


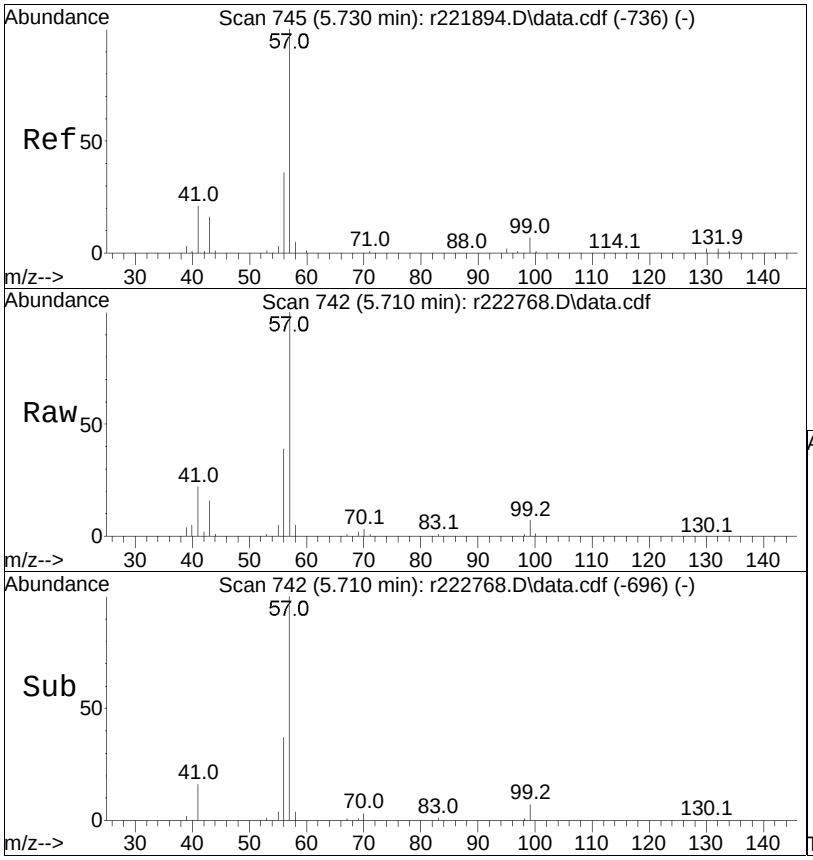


#59
trichloroethene
Concen: 0.12 ppbV
RT: 5.690 min Scan# 739
Delta R.T. -0.020 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion:130 Resp: 2544

Ion	Ratio	Lower	Upper
130	100		
132	89.2	75.9	113.9
97	53.6	42.5	63.7

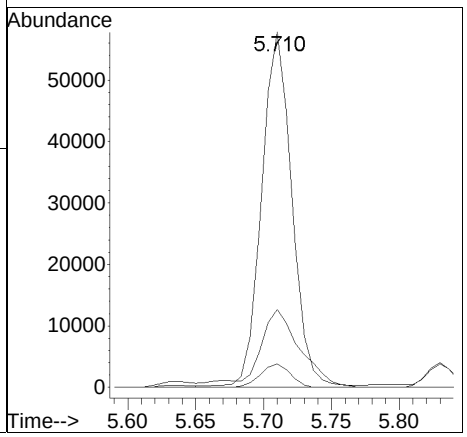


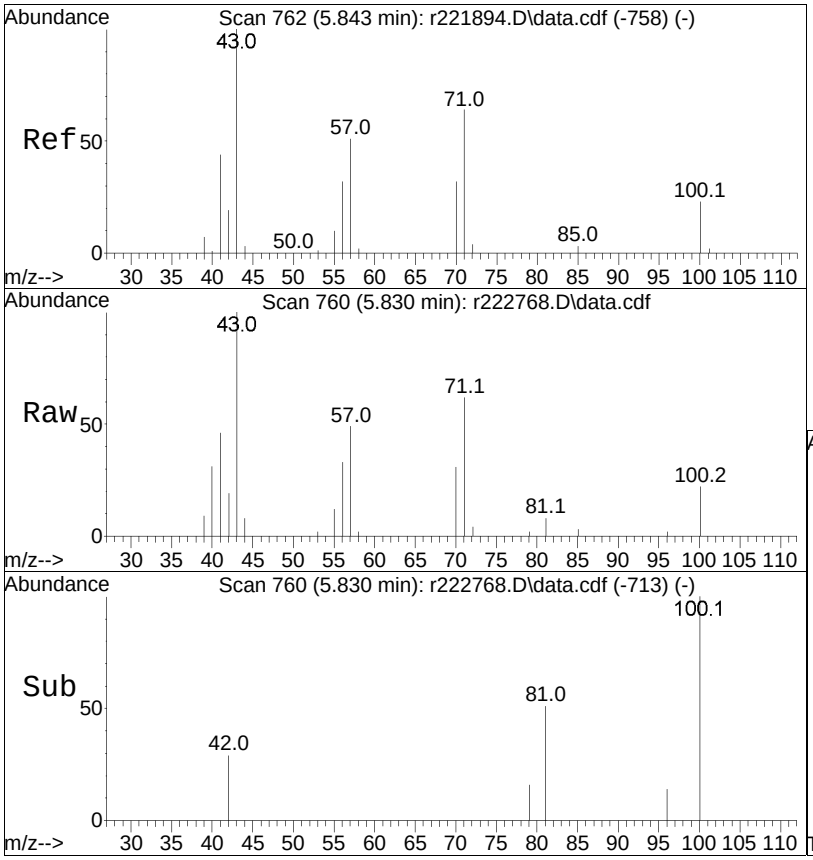


#60
2,2,4-trimethylpentane
Concen: 1.12 ppbV
RT: 5.710 min Scan# 742
Delta R.T. -0.020 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 57 Resp: 89738

Ion	Ratio	Lower	Upper
57	100		
99	6.6	5.7	8.5
41	21.9	16.9	25.3

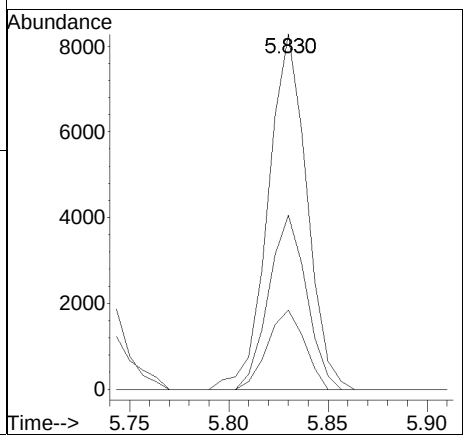


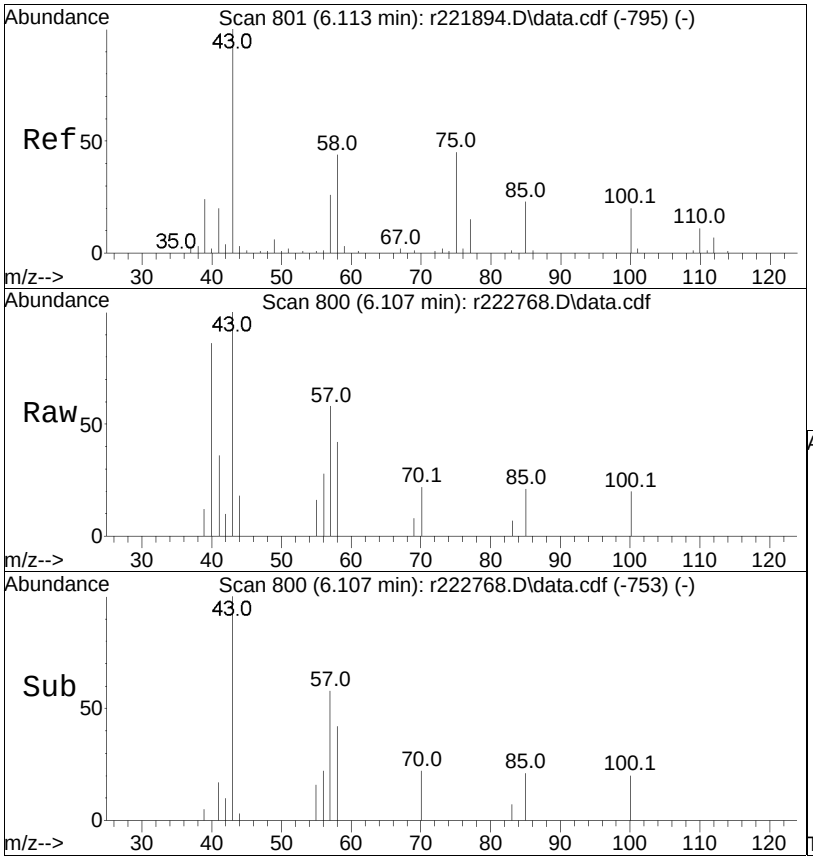


#62
heptane
Concen: 0.36 ppbV
RT: 5.830 min Scan# 760
Delta R.T. -0.013 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 43 Resp: 11248

Ion	Ratio	Lower	Upper
43	100		
57	49.0	40.4	60.6
100	22.3	19.0	28.6

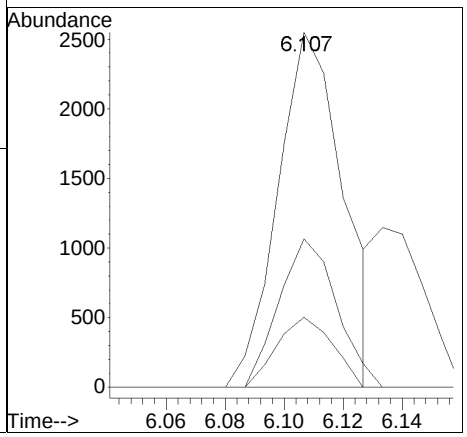


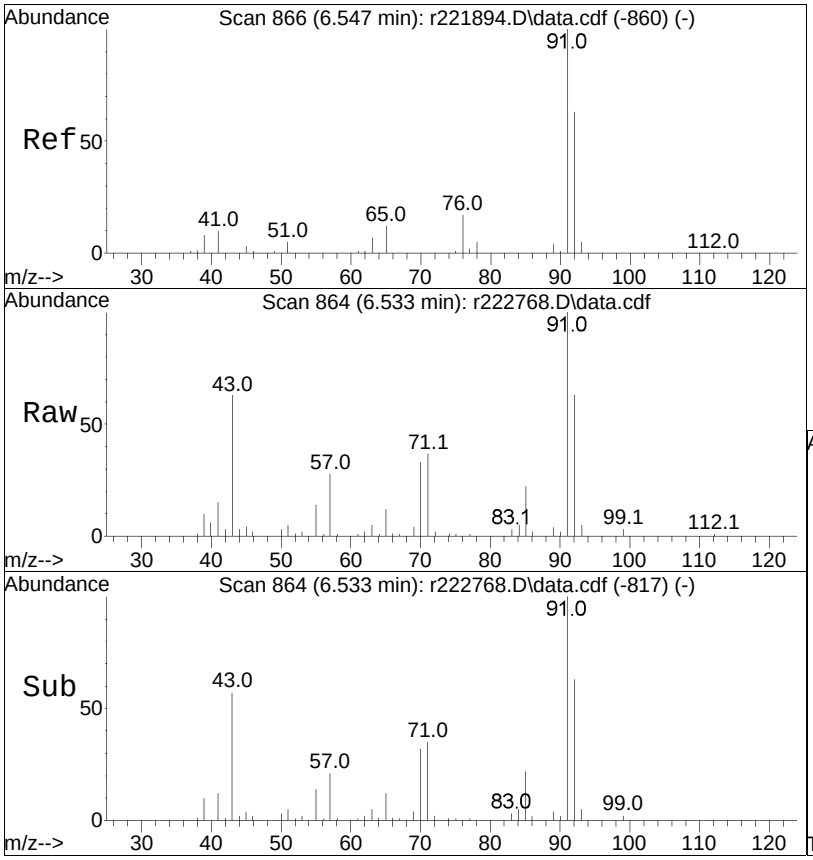


#64
4-methyl-2-pentanone
Concen: 0.11 ppbV m
RT: 6.107 min Scan# 800
Delta R.T. -0.007 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 43 Resp: 3950

Ion	Ratio	Lower	Upper
43	100		
58	41.8	34.9	52.3
100	19.7	16.1	24.1

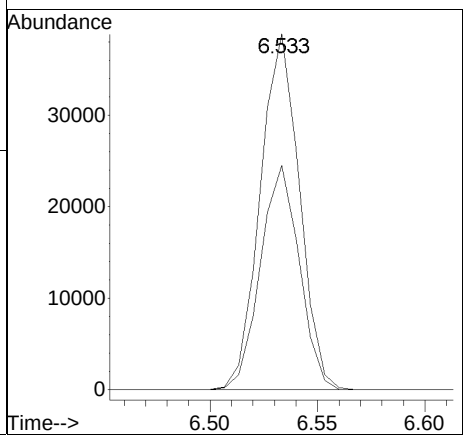


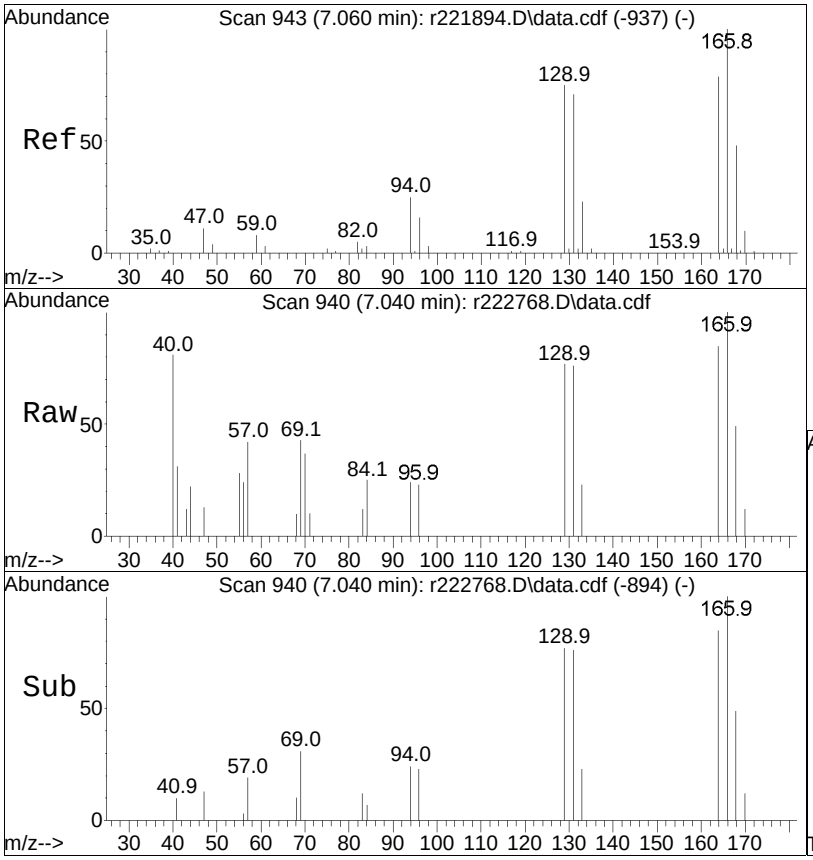


#68
toluene
Concen: 0.77 ppbV
RT: 6.533 min Scan# 864
Delta R.T. -0.013 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 91 Resp: 49110

Ion	Ratio	Lower	Upper
91	100		
92	63.1	50.7	76.1

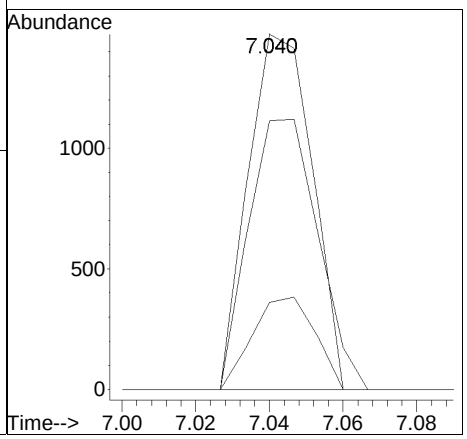


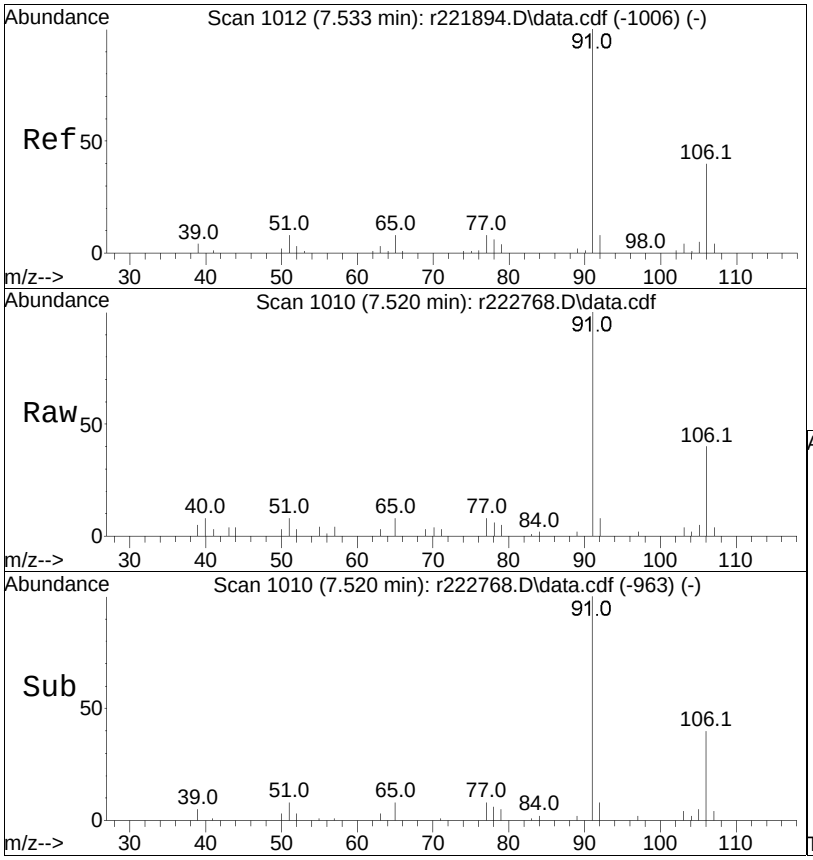


#78
tetrachloroethene
Concen: 0.07 ppbV
RT: 7.040 min Scan# 940
Delta R.T. -0.020 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion:166 Resp: 1782

Ion	Ratio	Lower	Upper
166	100		
131	75.6	56.9	85.3
94	24.5	19.8	29.8

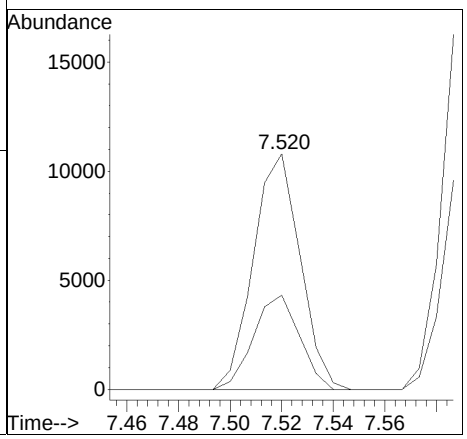


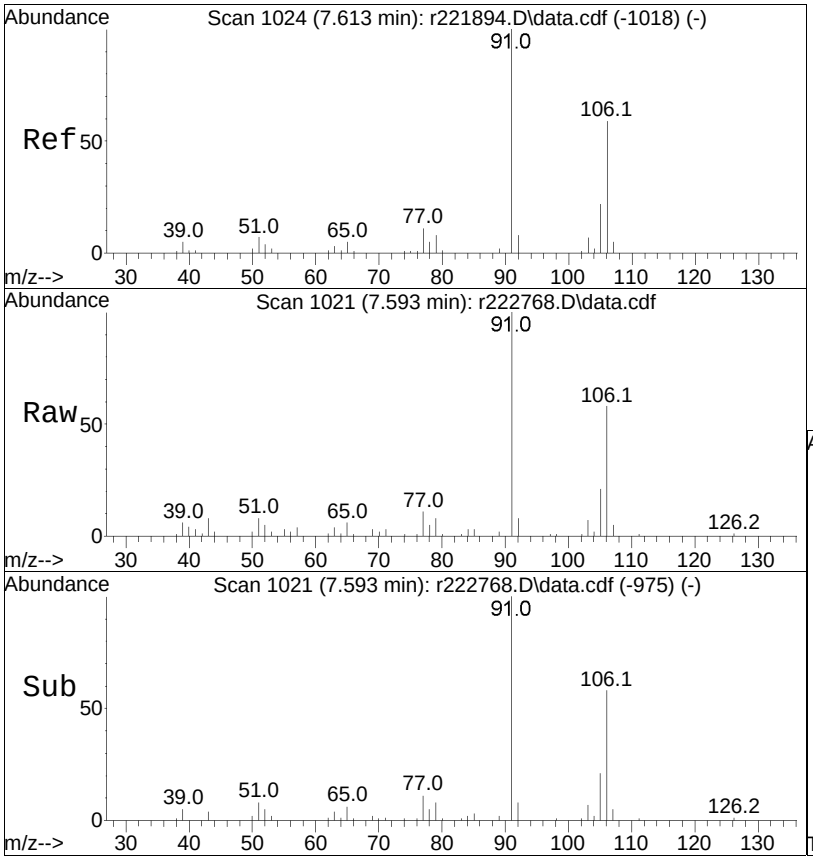


#81
ethylbenzene
Concen: 0.18 ppbV
RT: 7.520 min Scan# 1010
Delta R.T. -0.013 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 91 Resp: 13612

Ion	Ratio	Lower	Upper
91	100		
106	40.0	31.7	47.5

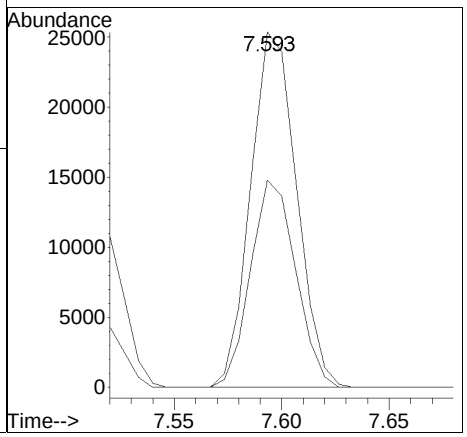


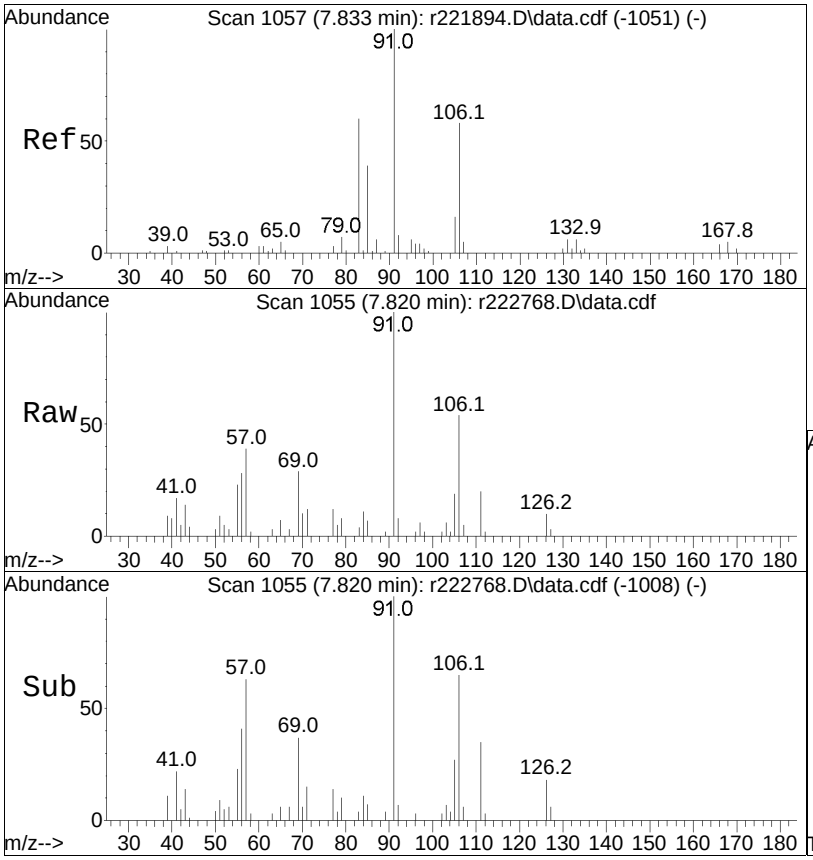


#83
m+p-xylene
Concen: 0.63 ppbV
RT: 7.593 min Scan# 1021
Delta R.T. -0.020 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 91 Resp: 37732

Ion	Ratio	Lower	Upper
91	100		
106	58.3	47.4	71.2

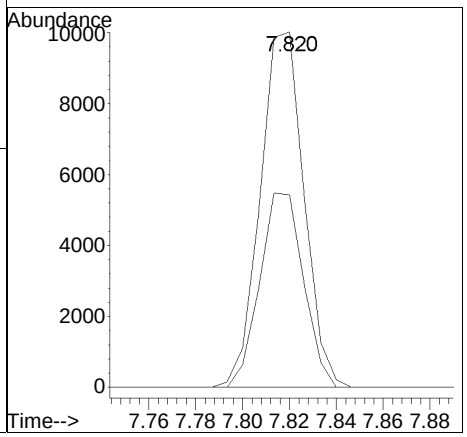


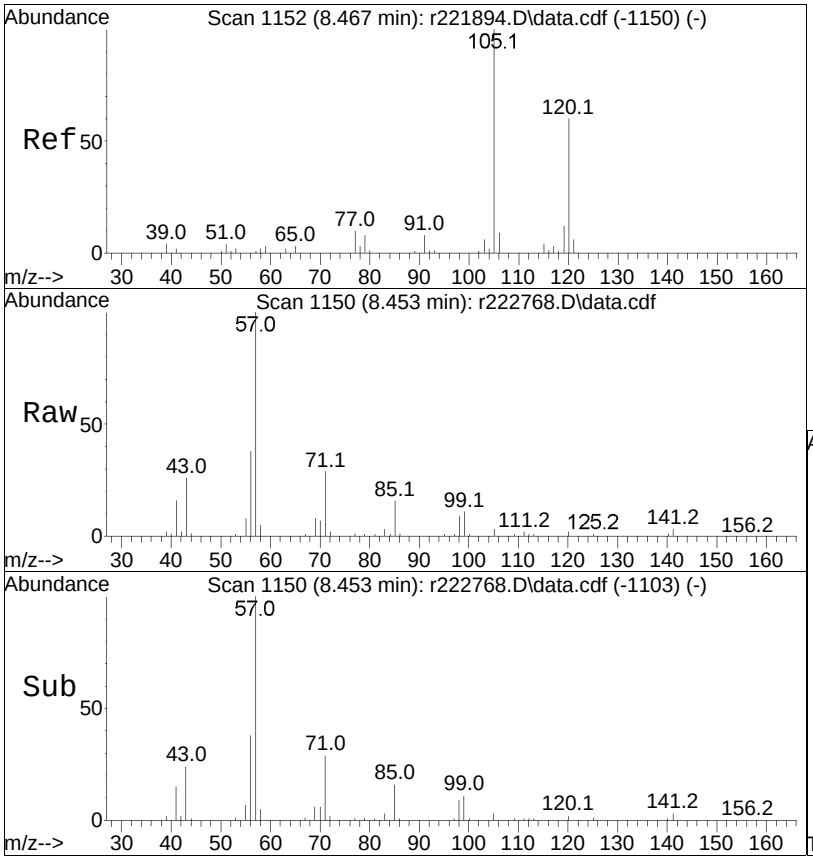


#87
o-xylene
Concen: 0.22 ppbV
RT: 7.820 min Scan# 1055
Delta R.T. -0.013 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 91 Resp: 13025

Ion	Ratio	Lower	Upper
91	100		
106	54.2	46.2	69.4

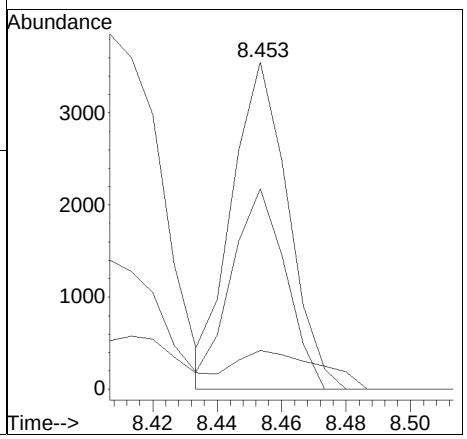


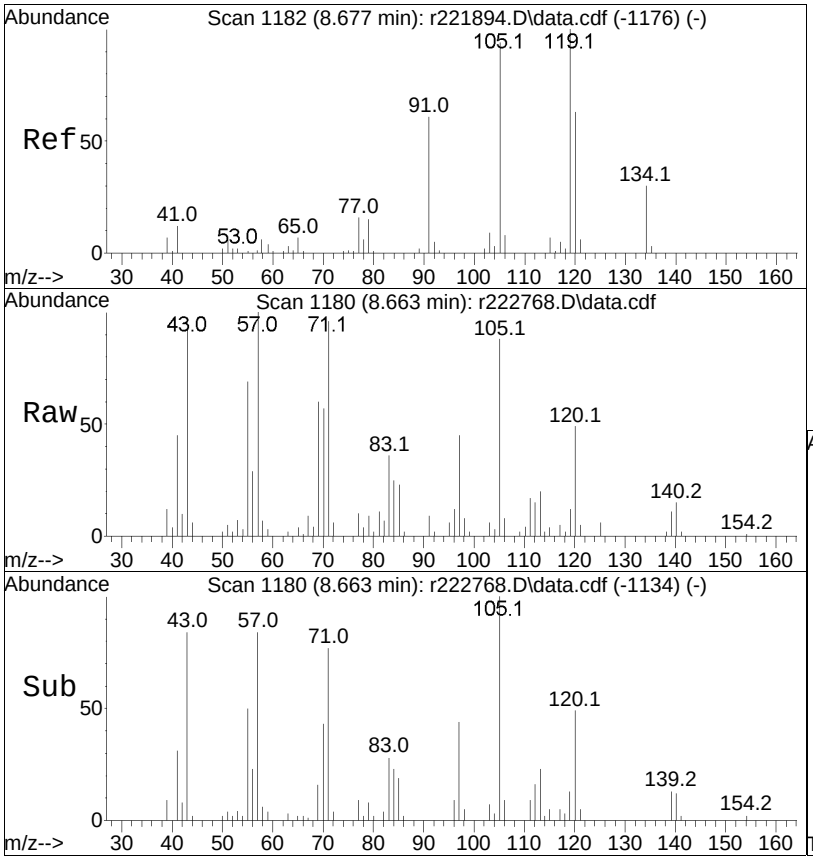


#97
1,3,5-trimethylbenzene
Concen: 0.06 ppbV
RT: 8.453 min Scan# 1150
Delta R.T. -0.013 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion:105 Resp: 4301

Ion	Ratio	Lower	Upper
105	100		
120	61.3	47.8	71.8
91	11.9	6.6	10.0#

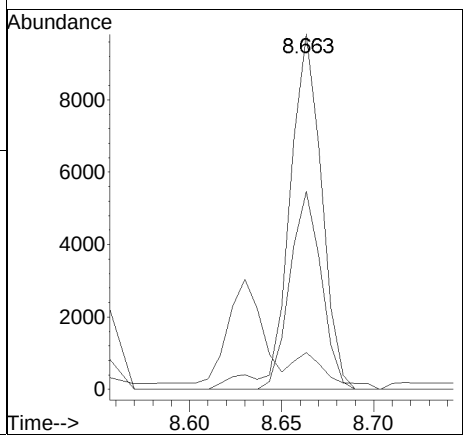




#99
1,2,4-trimethylbenzene
Concen: 0.18 ppbV
RT: 8.663 min Scan# 1180
Delta R.T. -0.013 min
Lab File: r222768.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion:105 Resp: 12032

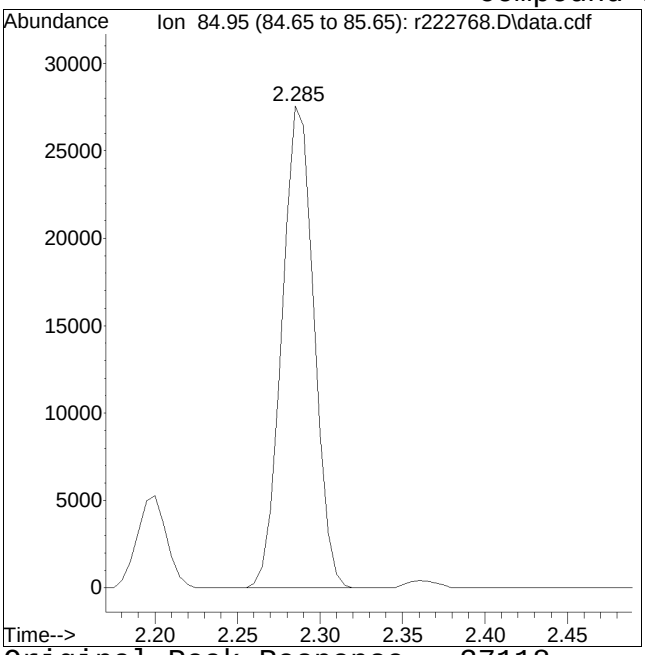
Ion	Ratio	Lower	Upper
105	100		
120	55.7	53.8	80.8
91	10.4	52.2	78.2#



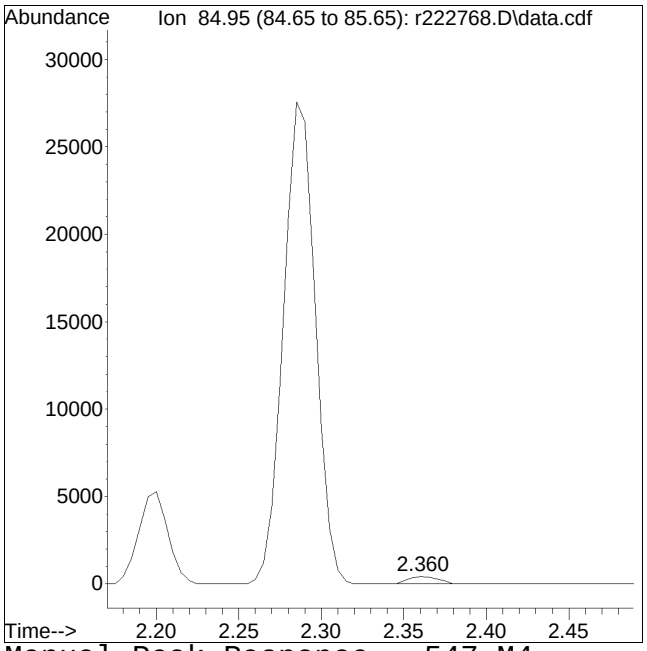
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222768.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:9: 2 Instrument :
Sample : L2409206-13,3,250,250 Quant Date : 3/2/2024 8:08 am

Compound #7: Freon-114



Original Peak Response = 37118



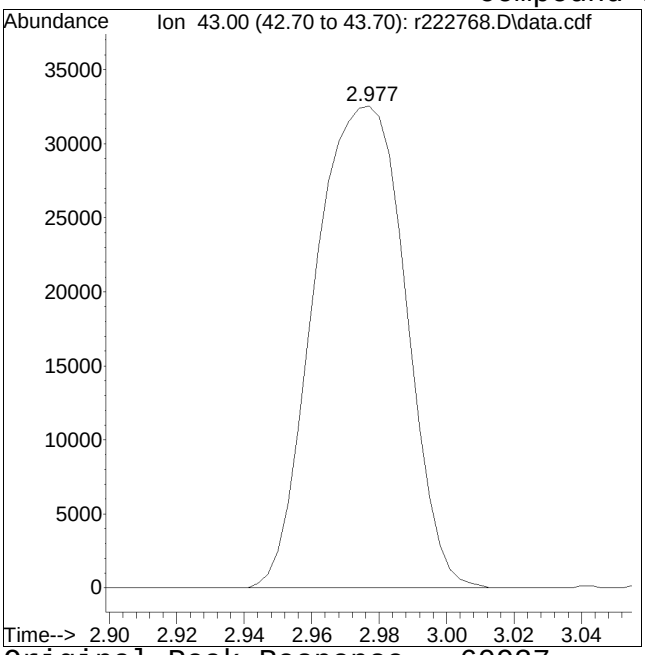
Manual Peak Response = 547 M4

M4 = Poor automated baseline construction.

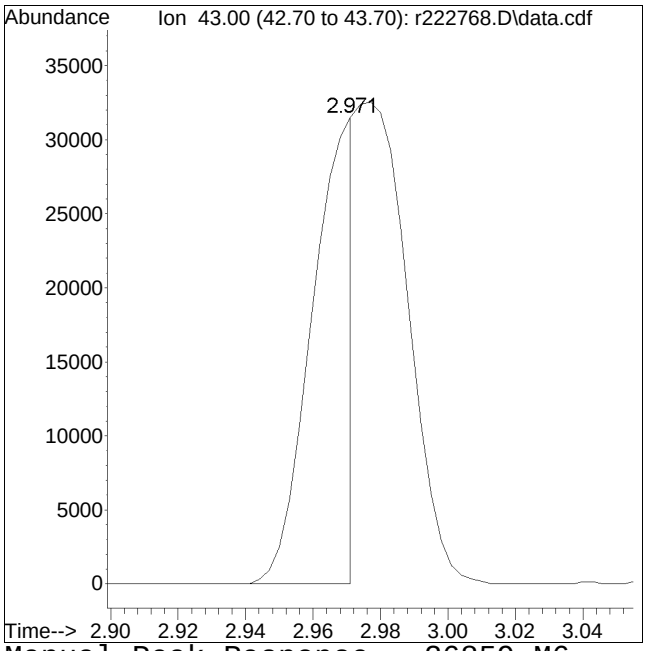
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222768.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:9: 2 Instrument :
Sample : L2409206-13,3,250,250 Quant Date : 3/2/2024 8:08 am

Compound #19: acetone



Original Peak Response = 60937



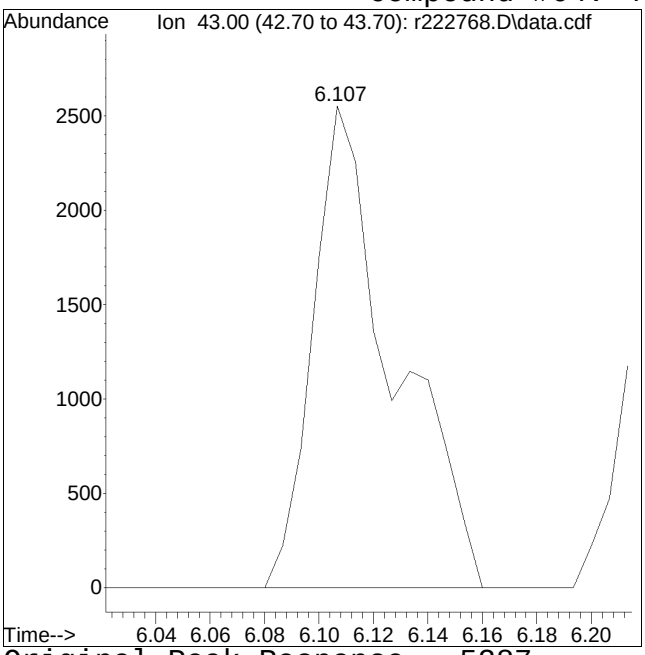
Manual Peak Response = 26859 M6

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

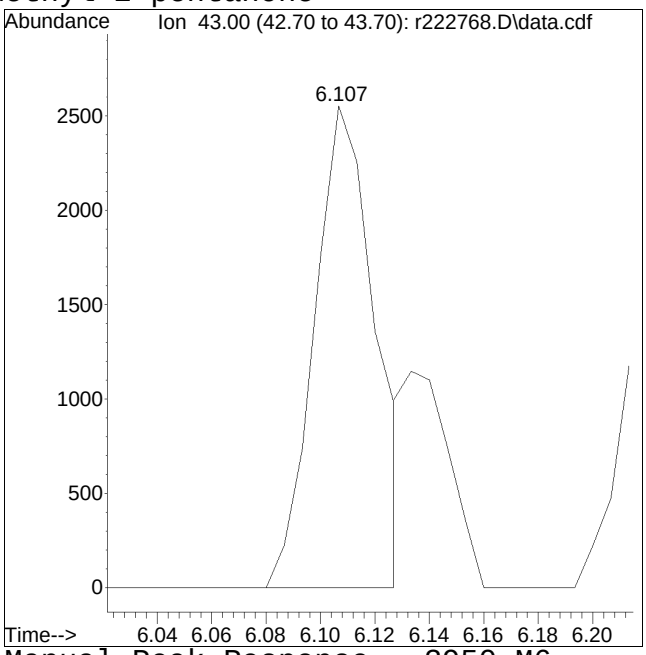
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222768.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:9: 2 Instrument :
Sample : L2409206-13,3,250,250 Quant Date : 3/2/2024 8:08 am

Compound #64: 4-methyl-2-pentanone



Original Peak Response = 5287



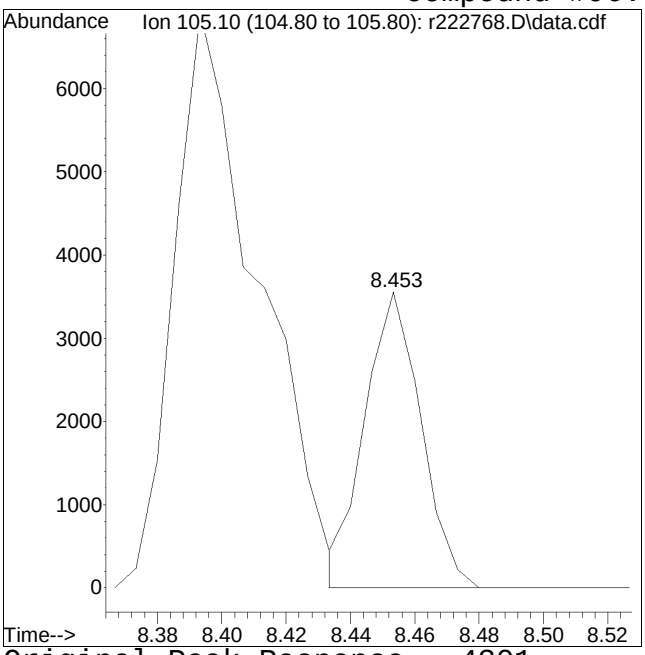
Manual Peak Response = 3950 M6

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

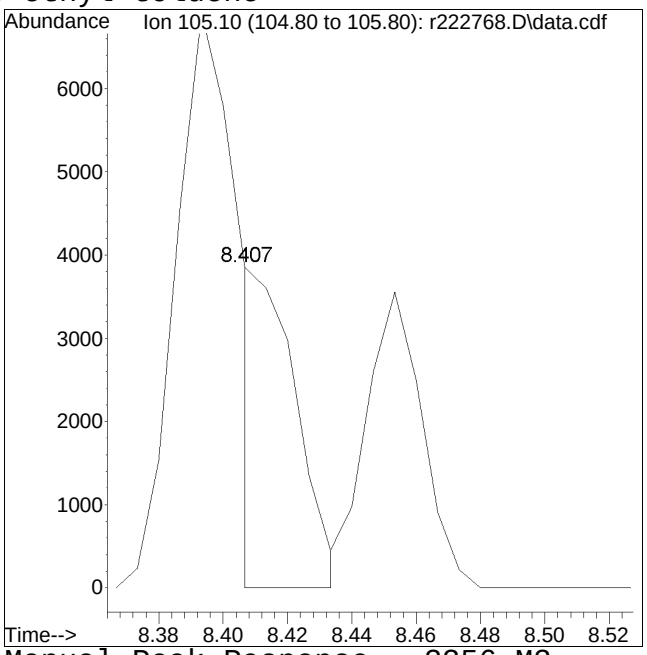
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222768.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:9: 2 Instrument :
Sample : L2409206-13,3,250,250 Quant Date : 3/2/2024 8:08 am

Compound #96: 4-ethyl toluene



Original Peak Response = 4301



Manual Peak Response = 3356 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	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL20574**
Calibration dates	**: 11/20/23 21:44 11/21/23 02:20**		

Calibration Files

0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D

50 =r1540788.D 100 =r1540789.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	1.113	1.097	1.068	0.987	0.923	0.895	0.838	0.783	0.963	12.79
3)		propylene		0.563	0.561	0.506	0.513	0.532	0.528	0.535	0.534	4.09
4)		propane		0.833	0.823	0.745	0.704	0.637	0.597	0.546	0.698	15.82
5)		dichlorodifluoromethane	1.296	1.302	1.281	1.228	1.135	1.004	0.965	0.900	1.139	14.28
6)	C	chloromethane	0.490	0.472	0.490	0.451	0.420	0.372	0.359	0.371	0.428	12.87
7)		Freon-114	1.304	1.279	1.264	1.209	1.116	0.977	0.872	0.801	1.103	17.76
8)	C	methanol			0.319	0.249	0.234	0.205	0.185	0.174	0.228	23.18
9)	C	vinyl chloride	0.678	0.645	0.665	0.650	0.632	0.595	0.568	0.564	0.625	6.98
10)	C	1,3-butadiene	0.489	0.464	0.473	0.437	0.415	0.380	0.348	0.343	0.419	13.58
11)		butane	0.858	0.806	0.803	0.724	0.701	0.688	0.695	0.749	0.753	8.34
12)	C	acetaldehyde		0.282	0.274	0.244	0.223	0.195	0.161	0.139	0.217	25.19
13)	C	bromomethane	0.566	0.537	0.535	0.520	0.507	0.471	0.443	0.423	0.500	10.02
14)	C	chloroethane	0.355	0.325	0.316	0.299	0.300	0.287	0.286	0.287	0.307	7.83
15)		ethanol			0.460	0.431	0.419	0.365	0.310	0.271	0.376	19.70
16)		dichlorofluoromethane	1.086	1.076	1.048	0.970	0.947	0.931	0.915	0.941	0.989	7.01
17)	C	vinyl bromide	0.485	0.477	0.473	0.447	0.442	0.452	0.459	0.459	0.462	3.28
18)	C	acrolein		0.257	0.263	0.237	0.235	0.224	0.212	0.200	0.232	9.75
19)		acetone	0.657	0.628	0.614	0.554	0.542	0.523	0.505	0.493	0.564	10.85
20)	C	acetonitrile	0.530	0.491	0.492	0.450	0.440	0.484	0.455	0.477	0.477	6.05
21)		trichlorofluoromethane	0.948	0.918	0.925	0.884	0.862	0.801	0.762	0.709	0.851	10.04
22)		isopropyl alcohol	0.796	0.791	0.771	0.673	0.665	0.669	0.657	0.667	0.711	8.80
23)	C	acrylonitrile	0.416	0.541	0.451	0.545	0.484	0.488	0.582	0.550	0.507	11.14
24)		pentane	1.061	1.329	1.318	1.210	1.178	1.184	1.189	1.180	1.206	7.08
25)		ethyl ether	1.240	1.273	1.266	1.198	1.174	1.169	1.098	0.955	1.172	8.94
26)	C	1,1-dichloroethene	1.041	1.008	0.999	0.971	0.964	0.943	0.971	0.953	0.981	3.30
27)		tertiary butyl alcohol		1.151	1.179	1.106	1.149	1.251	1.305	1.292	1.205	6.44
28)	C	methylene chloride		0.875	0.863	0.798	0.778	0.730	0.699	0.655	0.771	10.65
29)	C	3-chloropropene	0.850	0.887	0.879	0.828	0.837	0.850	0.891	0.927	0.869	3.83
30)	C	carbon disulfide	1.876	1.848	1.905	1.813	1.796	1.820	1.777	1.651	1.811	4.26
31)		Freon 113	1.183	1.156	1.150	1.102	1.083	1.060	1.111	1.081	1.116	3.86
32)		trans-1,2-dichloroethene	1.014	0.973	1.002	0.933	0.937	0.974	1.020	1.002	0.982	3.41
33)	C	1,1-dichloroethane	1.278	1.272	1.240	1.214	1.204	1.179	1.248	1.265	1.238	2.87
34)	C	MTBE	1.539	1.533	1.547	1.470	1.446	1.460	1.464	1.494	1.494	2.69
35)	C	vinyl acetate	1.279	1.236	1.288	1.126	1.191	1.266	1.333	1.371	1.261	6.14
36)	C	2-butanone		1.382	1.406	1.289	1.277	1.293	1.323	1.336	1.329	3.70

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL20574**
Calibration dates	**: 11/20/23 21:44 11/21/23 02:20**		

Calibration Files
0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
50 =r1540788.D 100 =r1540789.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)		cis-1,2-dichloroethene	0.955	0.925	0.943	0.928	0.926	0.919	0.962	0.940	0.937	1.64
38)		Ethyl Acetate		0.232	0.257	0.241	0.239	0.252	0.266	0.250	0.248	4.67
39)	C	chloroform	1.375	1.331	1.322	1.269	1.248	1.180	1.096	0.992	1.226	10.61
40)		Tetrahydrofuran		0.828	0.843	0.801	0.796	0.819	0.849	0.876	0.830	3.39
41)		2,2-dichloropropane	0.848	0.897	0.892	0.839	0.834	0.831	0.784	0.744	0.834	6.08
42)	C	1,2-dichloroethane	0.878	0.790	0.767	0.739	0.729	0.693	0.681	0.665	0.743	9.31
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.480	0.478	0.472	0.447	0.447	0.446	0.407	0.323	0.437	11.89
45)		diisopropyl ether	0.228	0.234	0.234	0.228	0.226	0.229	0.213	0.178	0.221	8.40
46)		tert-butyl ethyl ether	0.789	0.768	0.780	0.748	0.759	0.758	0.732	0.667	0.750	5.06
47)	s	1,2-dichloroethane-D4	0.366	0.381	0.373	0.382	0.379	0.372	0.360	0.357	0.371	2.55
48)	C	1,1,1-trichloroethane	0.332	0.334	0.338	0.332	0.330	0.320	0.308	0.291	0.323	4.96
49)		1,1-dichloropropene	0.347	0.343	0.344	0.333	0.328	0.323	0.300	0.279	0.325	7.26
50)	C	benzene	0.873	0.865	0.862	0.847	0.834	0.790	0.732	0.672	0.809	9.00
51)		thiophene									0.000	-1.00
52)	C	carbon tetrachloride	0.313	0.304	0.310	0.321	0.325	0.307	0.277	0.253	0.301	8.03
53)		cyclohexane	0.512	0.500	0.506	0.478	0.477	0.483	0.457	0.400	0.477	7.49
54)		tert-amyl methyl ether	0.631	0.626	0.627	0.607	0.610	0.609	0.586	0.562	0.607	3.83
55)		dibromomethane	0.245	0.243	0.244	0.233	0.234	0.237	0.233	0.206	0.235	5.38
56)	C	1,2-dichloropropane	0.313	0.298	0.297	0.294	0.296	0.290	0.293	0.271	0.294	3.97
57)		bromodichloromethane	0.404	0.430	0.423	0.421	0.425	0.420	0.378	0.328	0.404	8.59
58)	C	1,4-dioxane	0.192	0.188	0.189	0.185	0.189	0.195	0.190	0.163	0.187	5.29
59)	C	trichloroethene	0.329	0.330	0.326	0.322	0.326	0.313	0.321	0.288	0.319	4.35
60)	C	2,2,4-trimethylpentane	1.576	1.564	1.566	1.487	1.487	1.491	1.350	1.127	1.456	10.40
61)		methyl methacrylate		0.277	0.280	0.275	0.281	0.285	0.277	0.268	0.277	1.95
62)		heptane	0.514	0.509	0.518	0.491	0.484	0.476	0.445	0.410	0.481	7.72
63)	C	cis-1,3-dichloropropene	0.367	0.364	0.368	0.401	0.408	0.392	0.368	0.349	0.377	5.50
64)	C	4-methyl-2-pentanone		0.578	0.565	0.557	0.560	0.551	0.519	0.487	0.545	5.74
65)		trans-1,3-dichloropropene	0.271	0.285	0.293	0.322	0.330	0.317	0.300	0.285	0.301	6.89
66)	C	1,1,2-trichloroethane	0.292	0.295	0.293	0.292	0.296	0.289	0.297	0.281	0.292	1.74
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	5.880	5.749	5.633	5.638	5.710	5.594	5.951	5.718	5.734	2.17
69)	s	toluene-D8	7.131	7.199	7.076	6.994	7.114	7.387	8.535	9.641	7.635	12.46
70)		2-methylthiophene									0.000	-1.00
71)		1,3-dichloropropane	2.684	2.666	2.643	2.520	2.486	2.435	2.479	2.477	2.549	3.88
72)		2-hexanone	2.871	2.954	3.027	2.943	3.013	3.057	3.221	3.321	3.051	4.91

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL20574**
Calibration dates	**: 11/20/23 21:44 11/21/23 02:20**		

Calibration Files
0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
50 =r1540788.D 100 =r1540789.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)		3-methylthiophene									0.000	-1.00
74)		dibromochloromethane	1.958	1.971	2.092	2.148	2.271	2.374	2.533	2.494	2.230	10.04
75)	C	1,2-dibromoethane	2.540	2.522	2.578	2.591	2.568	2.488	2.706	2.747	2.593	3.45
76)		butyl acetate		0.557	0.583	0.606	0.621	0.624	0.680	0.713	0.626	8.68
77)		octane	2.288	2.339	2.332	2.204	2.202	2.236	2.275	2.130	2.251	3.17
78)	C	tetrachloroethene	2.426	2.264	2.264	2.269	2.278	2.238	2.354	2.317	2.301	2.69
79)		1,1,1,2-tetrachloroethane	1.726	1.757	1.771	1.782	1.804	1.891	1.956	1.806	1.812	4.17
80)	C	chlorobenzene	4.696	4.605	4.530	4.523	4.521	4.311	4.464	4.200	4.481	3.54
81)	C	ethylbenzene	7.195	7.212	7.163	7.302	7.430	7.319	7.772	7.355	7.343	2.65
82)		2-ethylthiophene									0.000	-1.00
83)	C	m+p-xylene	5.810	5.774	5.872	5.893	5.942	5.807	5.946	5.293	5.792	3.65
84)	C	bromoform	1.486	1.614	1.642	1.873	2.014	2.197	2.340	2.335	1.938	17.37
85)	C	styrene	4.444	4.550	4.598	4.631	4.722	4.652	4.939	5.015	4.694	4.13
86)	C	1,1,2,2-tetrachloroethane	4.509	4.496	4.470	4.656	4.680	4.439	4.137	3.470	4.357	9.06
87)	C	o-xylene	5.965	5.887	5.916	5.986	6.079	5.882	5.694	4.810	5.778	7.03
88)		1,2,3-trichloropropane	3.313	3.332	3.325	3.201	3.187	3.151	3.170	3.170	3.231	2.41
89)		nonane	4.932	4.817	4.777	4.620	4.559	4.463	4.393	4.116	4.585	5.74
90)	s	bromofluorobenzene	4.513	4.626	4.582	4.445	4.668	4.972	5.712	6.263	4.973	13.31
91)	C	isopropylbenzene	7.281	7.469	7.465	7.283	7.212	7.281	7.487	7.256	7.342	1.52
92)		bromobenzene	4.496	4.462	4.384	4.251	4.245	4.176	4.157	4.005	4.272	3.90
93)		2-chlorotoluene	2.103	2.102	2.167	2.142	2.214	2.295	2.417	2.330	2.221	5.18
94)		n-propylbenzene	2.522	2.588	2.532	2.605	2.645	2.675	2.730	2.604	2.613	2.67
95)		4-chlorotoluene	2.168	2.080	2.123	2.152	2.221	2.285	2.423	2.405	2.232	5.74
96)		4-ethyl toluene	7.660	7.584	7.734	7.713	7.742	7.735	8.105	7.755	7.753	1.97
97)		1,3,5-trimethylbenzene	6.775	6.729	6.860	7.865	7.865	6.614	7.638	7.262	7.201	7.31
98)		tert-butylbenzene	7.395	7.289	7.476	7.540	7.381	7.173	6.606	5.483	7.043	9.86
99)		1,2,4-trimethylbenzene	6.397	6.656	6.745	7.064	7.102	6.559	6.237	5.117	6.485	9.68
100)		decane	6.011	6.168	6.244	6.335	6.479	6.381	6.203	5.265	6.136	6.19
101)	C	Benzyl Chloride	2.660	2.824	3.063	3.807	4.307	4.678	5.141	4.728	3.901	24.51
102)		1,3-dichlorobenzene	4.354	4.413	4.496	4.833	4.814	4.630	4.846	4.427	4.602	4.48
103)	C	1,4-dichlorobenzene	4.257	4.251	4.324	4.721	4.744	4.610	4.867	4.593	4.546	5.25
104)		sec-butylbenzene	9.331	9.665	9.549	9.654	9.615	9.428	9.663	8.673	9.447	3.55
105)		1,2,3-trimethylbenzene	5.632	5.905	5.866	5.578	5.148	5.597	5.229	4.051	5.375	11.13
106)		p-isopropyltoluene	8.354	8.895	8.866	8.479	7.556	8.116	7.434	5.480	7.897	14.12
107)		1,2-dichlorobenzene	3.997	4.157	4.062	4.566	4.643	4.401	4.551	4.256	4.329	5.70
108)		n-butylbenzene	6.895	7.258	7.386	7.801	8.115	8.001	8.041	7.068	7.571	6.31

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL20574**
Calibration dates	**: 11/20/23 21:44 11/21/23 02:20**		

Calibration Files
0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
50 =r1540788.D 100 =r1540789.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)		indan	6.503	6.643	6.734	6.953	6.995	7.019	6.928	6.398	6.772	3.52
110)		indene	3.830	4.209	4.266	4.487	4.523	4.631	4.804	4.602	4.419	6.93
111)	C	1,2-dibromo-3-chloropr...	1.216	1.383	1.444	1.607	1.649	1.624	1.724	1.672	1.540	11.34
112)		undecane	5.605	6.470	6.678	7.156	7.444	7.128	6.771	5.395	6.581	11.18
113)		1,2,4,5-tetramethylben...	1.001	1.128	1.178	1.605	1.674	1.238	1.357	1.376	1.320	17.57
114)		dodecane	3.443	5.521	6.418	6.841	7.807	7.052	6.517	5.081	6.085	22.46
115)	C	1,2,4-trichlorobenzene	2.101	2.662	2.895	3.519	4.062	3.752	4.171	3.742	3.363	21.81
116)		naphthalene	0.576	0.767	0.821	0.894	1.009	0.973	1.033	0.946	0.877	17.34
117)		1,2,3-trichlorobenzene	1.867	2.534	2.755	2.928	3.415	3.279	3.635	3.445	2.982	19.70
118)		benzothiophene		1.246	1.399	1.824	2.093	1.682	1.737	1.355	1.620	18.57
119)	C	hexachlorobutadiene	2.190	2.714	2.796	3.056	3.353	2.943	3.139	2.622	2.852	12.55
120)		2-methylnaphthalene			1.801	2.850	4.083	3.331	4.315	4.555	3.489	29.93
121)		1-methylnaphthalene			2.005	3.097	4.396	3.148	4.007	4.275	3.488	26.22

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB22**	**Ical Ref**	**: ICAL20613**
Calibration dates	**: 11/29/23 22:39 11/30/23 02:24**		

Calibration Files

0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D

50 =r221896.D 100 =r221897.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	0.631	0.729	0.807	0.631	0.728	0.575	0.583	0.653	0.667	12.10
3)		propylene		0.593	0.538	0.530	0.498	0.545	0.530	0.541	0.539	5.23
4)		propane		0.608	0.500	0.423	0.404	0.381	0.365	0.358	0.434	20.82
5)		dichlorodifluoromethane	0.956	0.956	0.898	0.877	0.765	0.761	0.672	0.559	0.805	17.63
6)	C	chloromethane	0.485	0.458	0.456	0.427	0.428	0.419	0.413	0.409	0.437	6.06
7)		Freon-114	1.406	1.390	1.366	1.249	1.201	1.064	0.907	0.750	1.167	20.67
8)	C	methanol			0.225	0.180	0.175	0.165	0.154	0.146	0.174	16.08
9)	C	vinyl chloride	0.618	0.619	0.608	0.577	0.568	0.527	0.496	0.452	0.558	11.00
10)	C	1,3-butadiene	0.462	0.451	0.449	0.413	0.408	0.395	0.373	0.347	0.412	9.87
11)		butane	0.771	0.736	0.737	0.671	0.658	0.621	0.586	0.551	0.666	11.71
12)	C	acetaldehyde		0.277	0.261	0.222	0.215	0.196	0.177	0.165	0.216	19.27
13)	C	bromomethane	0.469	0.454	0.442	0.416	0.398	0.370	0.326	0.284	0.395	16.38
14)	C	chloroethane	0.242	0.235	0.232	0.217	0.215	0.203	0.190	0.179	0.214	10.34
15)		ethanol			0.186	0.184	0.169	0.163	0.142	0.121	0.161	15.63
16)		dichlorofluoromethane	0.877	0.897	0.779	0.819	0.654	0.614	0.499	0.401	0.693	26.13
17)	C	vinyl bromide	0.420	0.404	0.406	0.369	0.358	0.346	0.305	0.265	0.359	14.83
18)	C	acrolein		0.188	0.188	0.176	0.175	0.167	0.161	0.153	0.173	7.67
19)		acetone	0.374	0.368	0.363	0.320	0.310	0.298	0.275	0.266	0.322	13.14
20)	C	acetonitrile	0.359	0.340	0.326	0.303	0.300	0.290	0.280	0.278	0.310	9.54
21)		trichlorofluoromethane	0.496	0.482	0.469	0.448	0.434	0.404	0.367	0.337	0.430	13.12
22)		isopropyl alcohol	0.634	0.612	0.558	0.533	0.512	0.513	0.469	0.436	0.533	12.55
23)	C	acrylonitrile	0.396	0.360	0.359	0.338	0.334	0.334	0.307	0.282	0.339	10.23
24)		pentane	0.776	0.759	0.725	0.682	0.659	0.631	0.576	0.531	0.667	12.92
25)		ethyl ether	0.534	0.484	0.459	0.437	0.429	0.408	0.374	0.354	0.435	13.41
26)	C	1,1-dichloroethene	0.874	0.961	0.955	0.882	0.863	0.854	0.666	0.558	0.827	17.11
27)		tertiary butyl alcohol		1.298	1.213	1.312	1.265	1.282	1.099	0.941	1.202	11.29
28)	C	methylene chloride		0.905	0.885	0.801	0.791	0.769	0.734	0.663	0.793	10.55
29)	C	3-chloropropene	1.178	1.149	1.149	1.071	1.061	1.058	1.011	0.914	1.074	8.04
30)	C	carbon disulfide	2.474	2.451	2.429	2.223	2.190	2.170	1.972	1.673	2.198	12.42
31)		Freon 113	1.396	1.355	1.350	1.255	1.230	1.174	1.030	0.847	1.205	15.46
32)		trans-1,2-dichloroethene	1.211	1.133	1.109	1.034	1.021	1.002	0.904	0.765	1.022	13.64
33)	C	1,1-dichloroethane	1.433	1.421	1.421	1.350	1.331	1.284	1.183	1.015	1.305	11.03
34)	C	MTBE	2.075	2.087	2.070	1.926	1.912	1.891	1.727	1.475	1.895	11.04
35)	C	vinyl acetate			1.596	1.399	1.443	1.494	1.476	1.360	1.461	5.64
36)	C	2-butanone		1.697	1.657	1.690	1.670	1.675	1.581	1.396	1.624	6.62

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB22**	**Ical Ref**	**: ICAL20613**
Calibration dates	**: 11/29/23 22:39 11/30/23 02:24**		

Calibration Files
0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
50 =r221896.D 100 =r221897.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)		cis-1,2-dichloroethene	1.057	1.026	1.016	0.964	0.948	0.906	0.822	0.700	0.930	12.83
38)		Ethyl Acetate	0.292	0.274	0.283	0.261	0.262	0.253	0.218	0.179	0.253	14.74
39)	C	chloroform	1.314	1.318	1.302	1.206	1.185	1.113	0.957	0.779	1.147	16.78
40)		Tetrahydrofuran	1.137	1.130	1.090	1.034	1.031	1.026	0.964	0.855	1.033	8.95
41)		2,2-dichloropropane	1.071	1.007	1.010	0.971	0.964	0.903	0.765	0.614	0.913	16.58
42)	C	1,2-dichloroethane	0.863	0.765	0.736	0.665	0.654	0.611	0.516	0.405	0.652	22.13
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.435	0.413	0.415	0.375	0.363	0.340	0.275	0.214	0.354	21.46
45)		diisopropyl ether	0.260	0.256	0.257	0.234	0.233	0.214	0.178	0.140	0.222	19.29
46)		tert-butyl ethyl ether	0.757	0.752	0.743	0.699	0.686	0.638	0.536	0.431	0.655	17.78
47)	s	1,2-dichloroethane-D4	0.290	0.288	0.293	0.290	0.288	0.279	0.251	0.208	0.273	10.91
48)	C	1,1,1-trichloroethane	0.322	0.316	0.315	0.297	0.289	0.269	0.219	0.188	0.277	17.74
49)		1,1-dichloropropene	0.337	0.330	0.331	0.312	0.310	0.295	0.256	0.213	0.298	14.42
50)	C	benzene	0.850	0.826	0.820	0.769	0.770	0.731	0.651	0.551	0.746	13.53
51)		thiophene									0.000	-1.00
52)	C	carbon tetrachloride	0.291	0.284	0.291	0.270	0.262	0.242	0.194	0.151	0.248	20.51
53)		cyclohexane	0.494	0.455	0.453	0.413	0.400	0.386	0.344	0.294	0.405	15.93
54)		tert-amyl methyl ether	0.756	0.723	0.721	0.679	0.673	0.640	0.556	0.468	0.652	14.77
55)		dibromomethane	0.217	0.213	0.208	0.194	0.187	0.172	0.137	0.106	0.179	22.02
56)	C	1,2-dichloropropane	0.280	0.275	0.275	0.259	0.257	0.240	0.201	0.161	0.244	17.30
57)		bromodichloromethane	0.378	0.382	0.384	0.348	0.338	0.316	0.248	0.199	0.324	20.87
58)	C	1,4-dioxane	0.198	0.186	0.180	0.162	0.168	0.166	0.137	0.106	0.163	17.96
59)	C	trichloroethene	0.347	0.342	0.339	0.321	0.314	0.292	0.231	0.174	0.295	20.91
60)	C	2,2,4-trimethylpentane	1.343	1.333	1.324	1.191	1.163	1.097	0.887	0.689	1.128	20.75
61)		methyl methacrylate		0.270	0.271	0.258	0.259	0.247	0.217	0.181	0.243	13.56
62)		heptane	0.520	0.513	0.511	0.469	0.459	0.440	0.363	0.292	0.446	18.10
63)	C	cis-1,3-dichloropropene	0.398	0.401	0.397	0.379	0.378	0.356	0.296	0.240	0.356	16.25
64)	C	4-methyl-2-pentanone		0.613	0.600	0.543	0.527	0.486	0.392	0.309	0.496	22.32
65)		trans-1,3-dichloropropene	0.327	0.324	0.324	0.303	0.302	0.291	0.253	0.211	0.292	13.98
66)	C	1,1,2-trichloroethane	0.300	0.295	0.288	0.276	0.275	0.262	0.225	0.187	0.264	14.71
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	9.358	9.144	9.076	8.643	8.615	8.286	7.466	6.142	8.341	12.81
69)	s	toluene-D8	1.076	1.067	1.102	1.119	1.160	1.212	1.346	1.458	1.193	11.80
70)		2-methylthiophene									0.000	-1.00
71)		1,3-dichloropropane	4.198	4.094	4.047	3.871	3.894	3.742	3.417	2.924	3.773	11.11
72)		2-hexanone	5.030	5.161	5.267	4.884	4.954	4.944	4.702	4.203	4.893	6.69

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB22**	**Ical Ref**	**: ICAL20613**
Calibration dates	**: 11/29/23 22:39 11/30/23 02:24**		

Calibration Files
0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
50 =r221896.D 100 =r221897.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)		3-methylthiophene									0.000	-1.00
74)		dibromochloromethane	3.668	3.647	3.589	3.413	3.377	3.327	2.992	2.520	3.317	11.73
75)	C	1,2-dibromoethane	3.889	3.927	3.884	3.750	3.760	3.732	3.454	2.996	3.674	8.48
76)		butyl acetate		1.136	1.170	1.216	1.260	1.268	1.293	1.205	1.221	4.60
77)		octane	3.672	3.751	3.784	3.627	3.563	3.426	2.973	2.469	3.408	13.46
78)	C	tetrachloroethene	3.579	3.574	3.516	3.409	3.385	3.246	2.850	2.332	3.236	13.46
79)		1,1,1,2-tetrachloroethane	2.954	2.920	2.913	2.759	2.702	2.527	2.123	1.739	2.579	16.91
80)	C	chlorobenzene	7.159	7.234	7.120	6.830	6.757	6.445	5.565	4.504	6.452	14.79
81)	C	ethylbenzene	1.095	1.085	1.102	1.059	1.053	1.016	0.902	0.760	1.009	11.84
82)		2-ethylthiophene									0.000	-1.00
83)	C	m+p-xylene	8.967	9.012	8.981	8.613	8.358	7.652	6.330	4.932	7.856	18.99
84)	C	bromoform	3.003	3.013	3.028	2.856	2.825	2.738	2.337	1.953	2.719	14.08
85)	C	styrene	7.180	7.235	7.395	7.395	7.463	7.257	6.635	5.766	7.041	8.18
86)	C	1,1,2,2-tetrachloroethane	5.874	5.913	5.919	5.751	5.610	5.155	4.359	3.552	5.266	16.59
87)	C	o-xylene	8.977	8.941	8.928	8.504	8.186	7.298	5.835	4.695	7.670	21.04
88)		1,2,3-trichloropropane	4.556	4.693	4.614	4.516	4.531	4.411	4.109	3.673	4.388	7.70
89)		nonane	6.799	6.855	6.902	6.602	6.461	6.031	5.173	4.391	6.152	14.86
90)	s	bromofluorobenzene	6.334	6.164	6.444	6.671	6.900	7.041	7.814	8.008	6.922	9.77
91)	C	isopropylbenzene	1.168	1.169	1.178	1.138	1.119	1.045	0.911	0.760	1.061	14.24
92)		bromobenzene	6.408	6.286	6.351	6.130	6.059	5.739	5.007	4.292	5.784	13.05
93)		2-chlorotoluene	3.568	3.474	3.479	3.460	3.438	3.324	2.902	2.370	3.252	12.64
94)		n-propylbenzene	4.070	4.115	4.111	4.126	4.107	3.859	3.266	2.631	3.785	14.55
95)		4-chlorotoluene	3.344	3.437	3.458	3.445	3.449	3.323	3.047	2.625	3.266	8.96
96)		4-ethyl toluene	1.252	1.213	1.274	1.228	1.190	1.099	0.998	0.813	1.133	13.91
97)		1,3,5-trimethylbenzene	0.989	1.081	1.025	1.017	0.993	0.947	0.743	0.628	0.928	16.95
98)		tert-butylbenzene	1.096	1.101	1.110	1.048	0.992	0.847	0.652	0.530	0.922	24.28
99)		1,2,4-trimethylbenzene	1.047	1.065	1.069	1.029	0.950	0.811	0.623	0.498	0.887	24.93
100)		decane	7.859	8.175	8.209	8.131	7.935	7.298	6.250	5.353	7.401	14.27
101)	C	Benzyl Chloride	4.641	4.817	5.130	5.741	5.952	6.037	5.461	4.800	5.322	10.37
102)		1,3-dichlorobenzene	7.098	7.203	7.211	7.377	7.049	6.407	5.194	4.545	6.511	16.38
103)	C	1,4-dichlorobenzene	6.741	7.029	7.055	7.078	6.891	6.146	5.169	3.844	6.244	18.72
104)		sec-butylbenzene	1.441	1.491	1.490	1.468	1.421	1.290	1.062	0.868	1.316	17.63
105)		1,2,3-trimethylbenzene	9.624	9.827	9.835	9.215	8.458	7.314	5.650	4.673	8.074	24.79
106)		p-isopropyltoluene	1.294	1.334	1.329	1.292	1.189	0.995	0.772	0.620	1.103	25.15
107)		1,2-dichlorobenzene	6.451	6.502	6.657	6.812	6.725	6.134	5.231	4.437	6.119	13.83
108)		n-butylbenzene	1.063	1.102	1.108	1.120	1.071	0.953	0.803	0.683	0.988	16.51

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB22**	**Ical Ref**	**: ICAL20613**
Calibration dates	**: 11/29/23 22:39 11/30/23 02:24**		

Calibration Files

0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D

50 =r221896.D 100 =r221897.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)		indan	1.030	1.068	1.076	1.067	1.026	0.938	0.778	0.645	0.954	16.72
110)		indene	6.703	6.805	7.088	7.245	7.266	6.831	5.966	5.066	6.621	11.35
111)	C	1,2-dibromo-3-chloropr...	2.375	2.419	2.375	2.447	2.296	2.047	1.741	1.598	2.162	15.29
112)		undecane	8.191	8.665	8.887	9.249	8.879	7.853	6.546	5.594	7.983	16.07
113)		1,2,4,5-tetramethylben...	1.818	1.902	1.964	1.985	2.065	1.948	1.971	1.971	1.953	3.64
114)		dodecane	7.289	8.482	8.953	9.658	8.665	6.882	5.159	4.381	7.434	25.27
115)	C	1,2,4-trichlorobenzene	4.622	4.975	5.151	5.883	5.741	4.889	3.929	3.268	4.807	18.20
116)		naphthalene	1.145	1.298	1.392	1.458	1.364	1.117	0.853	0.701	1.166	23.16
117)		1,2,3-trichlorobenzene	3.901	4.289	4.554	5.106	4.963	4.358	3.649	3.017	4.229	16.35
118)		benzothiophene	1.970	2.353	2.546	2.871	2.621	2.051	1.488	1.190	2.136	27.06
119)	C	hexachlorobutadiene	4.155	4.585	4.470	4.494	4.069	3.271	2.447	2.023	3.689	26.94
120)		2-methylnaphthalene			2.760	5.762	6.920	5.902	5.744	4.877	5.328	26.58
121)		1-methylnaphthalene			2.786	5.635	6.668	5.879	5.874	5.230	5.345	25.05

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Method File : TFS15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 15:43:18 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
50 =r1540788.D 100 =r1540789.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoro...	1.113	1.097	1.068	0.987	0.923	0.895	0.838	0.783	0.963	12.79
3)		propylene		0.563	0.561	0.506	0.513	0.532	0.528	0.535	0.534	4.09
4)		propane		0.833	0.823	0.745	0.704	0.637	0.597	0.546	0.698	15.82
5)		dichlorodifluo...	1.296	1.302	1.281	1.228	1.135	1.004	0.965	0.900	1.139	14.28
6)	C	chloromethane	0.490	0.472	0.490	0.451	0.420	0.372	0.359	0.371	0.428	12.87
7)		Freon-114	1.304	1.279	1.264	1.209	1.116	0.977	0.872	0.801	1.103	17.76
8)	C	methanol			0.319	0.249	0.234	0.205	0.185	0.174	0.228	23.18
9)	C	vinyl chloride	0.678	0.645	0.665	0.650	0.632	0.595	0.568	0.564	0.625	6.98
10)	C	1,3-butadiene	0.489	0.464	0.473	0.437	0.415	0.380	0.348	0.343	0.419	13.58
11)		butane	0.858	0.806	0.803	0.724	0.701	0.688	0.695	0.749	0.753	8.34
12)	C	acetaldehyde		0.282	0.274	0.244	0.223	0.195	0.161	0.139	0.217	25.19
13)	C	bromomethane	0.566	0.537	0.535	0.520	0.507	0.471	0.443	0.423	0.500	10.02
14)	C	chloroethane	0.355	0.325	0.316	0.299	0.300	0.287	0.286	0.287	0.307	7.83
15)		ethanol			0.460	0.431	0.419	0.365	0.310	0.271	0.376	19.70
16)		dichlorofluoro...	1.086	1.076	1.048	0.970	0.947	0.931	0.915	0.941	0.989	7.01
17)	C	vinyl bromide	0.485	0.477	0.473	0.447	0.442	0.452	0.459	0.459	0.462	3.28
18)	C	acrolein		0.257	0.263	0.237	0.235	0.224	0.212	0.200	0.232	9.75
19)		acetone	0.657	0.628	0.614	0.554	0.542	0.523	0.505	0.493	0.564	10.85
20)	C	acetonitrile	0.530	0.491	0.492	0.450	0.440	0.484	0.455	0.477	0.477	6.05
21)		trichlorofluor...	0.948	0.918	0.925	0.884	0.862	0.801	0.762	0.709	0.851	10.04
22)		isopropyl alcohol	0.796	0.791	0.771	0.673	0.665	0.669	0.657	0.667	0.711	8.80
23)	C	acrylonitrile	0.416	0.541	0.451	0.545	0.484	0.488	0.582	0.550	0.507	11.14
24)		pentane	1.061	1.329	1.318	1.210	1.178	1.184	1.189	1.180	1.206	7.08
25)		ethyl ether	1.240	1.273	1.266	1.198	1.174	1.169	1.098	0.955	1.172	8.94
26)	C	1,1-dichloroet...	1.041	1.008	0.999	0.971	0.964	0.943	0.971	0.953	0.981	3.30
27)		tertiary butyl...		1.151	1.179	1.106	1.149	1.251	1.305	1.292	1.205	6.44
28)	C	methylene chlo...		0.875	0.863	0.798	0.778	0.730	0.699	0.655	0.771	10.65
29)	C	3-chloropropene	0.850	0.887	0.879	0.828	0.837	0.850	0.891	0.927	0.869	3.83
30)	C	carbon disulfide	1.876	1.848	1.905	1.813	1.796	1.820	1.777	1.651	1.811	4.26
31)		Freon 113	1.183	1.156	1.150	1.102	1.083	1.060	1.111	1.081	1.116	3.86

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Method File : TFS15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 15:43:18 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
50 =r1540788.D 100 =r1540789.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)		trans-1,2-dich...	1.014	0.973	1.002	0.933	0.937	0.974	1.020	1.002	0.982	3.41
33)	C	1,1-dichloroet...	1.278	1.272	1.240	1.214	1.204	1.179	1.248	1.265	1.238	2.87
34)	C	MTBE	1.539	1.533	1.547	1.470	1.446	1.460	1.464	1.494	1.494	2.69
35)	C	vinyl acetate	1.279	1.236	1.288	1.126	1.191	1.266	1.333	1.371	1.261	6.14
36)	C	2-butanone		1.382	1.406	1.289	1.277	1.293	1.323	1.336	1.329	3.70
37)		cis-1,2-dichlo...	0.955	0.925	0.943	0.928	0.926	0.919	0.962	0.940	0.937	1.64
38)		Ethyl Acetate		0.232	0.257	0.241	0.239	0.252	0.266	0.250	0.248	4.67
39)	C	chloroform	1.375	1.331	1.322	1.269	1.248	1.180	1.096	0.992	1.226	10.61
40)		Tetrahydrofuran		0.828	0.843	0.801	0.796	0.819	0.849	0.876	0.830	3.39
41)		2,2-dichloropr...	0.848	0.897	0.892	0.839	0.834	0.831	0.784	0.744	0.834	6.08
42)	C	1,2-dichloroet...	0.878	0.790	0.767	0.739	0.729	0.693	0.681	0.665	0.743	9.31
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.480	0.478	0.472	0.447	0.447	0.446	0.407	0.323	0.437	11.89
45)		diisopropyl ether	0.228	0.234	0.234	0.228	0.226	0.229	0.213	0.178	0.221	8.40
46)		tert-butyl eth...	0.789	0.768	0.780	0.748	0.759	0.758	0.732	0.667	0.750	5.06
47)	s	1,2-dichloroet...	0.366	0.381	0.373	0.382	0.379	0.372	0.360	0.357	0.371	2.55
48)	C	1,1,1-trichlor...	0.332	0.334	0.338	0.332	0.330	0.320	0.308	0.291	0.323	4.96
49)		1,1-dichloropr...	0.347	0.343	0.344	0.333	0.328	0.323	0.300	0.279	0.325	7.26
50)	C	benzene	0.873	0.865	0.862	0.847	0.834	0.790	0.732	0.672	0.809	9.00
51)		thiophene								0.000		-1.00
52)	C	carbon tetrach...	0.313	0.304	0.310	0.321	0.325	0.307	0.277	0.253	0.301	8.03
53)		cyclohexane	0.512	0.500	0.506	0.478	0.477	0.483	0.457	0.400	0.477	7.49
54)		tert-amyl meth...	0.631	0.626	0.627	0.607	0.610	0.609	0.586	0.562	0.607	3.83
55)		dibromomethane	0.245	0.243	0.244	0.233	0.234	0.237	0.233	0.206	0.235	5.38
56)	C	1,2-dichloropr...	0.313	0.298	0.297	0.294	0.296	0.290	0.293	0.271	0.294	3.97
57)		bromodichlorom...	0.404	0.430	0.423	0.421	0.425	0.420	0.378	0.328	0.404	8.59
58)	C	1,4-dioxane	0.192	0.188	0.189	0.185	0.189	0.195	0.190	0.163	0.187	5.29
59)	C	trichloroethene	0.329	0.330	0.326	0.322	0.326	0.313	0.321	0.288	0.319	4.35
60)	C	2,2,4-trimethy...	1.576	1.564	1.566	1.487	1.487	1.491	1.350	1.127	1.456	10.40
61)		methyl methacr...		0.277	0.280	0.275	0.281	0.285	0.277	0.268	0.277	1.95
62)		heptane	0.514	0.509	0.518	0.491	0.484	0.476	0.445	0.410	0.481	7.72

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Method File : TFS15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 15:43:18 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
50 =r1540788.D 100 =r1540789.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C	cis-1,3-dichlo...	0.367	0.364	0.368	0.401	0.408	0.392	0.368	0.349	0.377	5.50
64)	C	4-methyl-2-pen...		0.578	0.565	0.557	0.560	0.551	0.519	0.487	0.545	5.74
65)		trans-1,3-dich...	0.271	0.285	0.293	0.322	0.330	0.317	0.300	0.285	0.301	6.89
66)	C	1,1,2-trichlor...	0.292	0.295	0.293	0.292	0.296	0.289	0.297	0.281	0.292	1.74
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	5.880	5.749	5.633	5.638	5.710	5.594	5.951	5.718	5.734	2.17
69)	s	toluene-D8	7.131	7.199	7.076	6.994	7.114	7.387	8.535	9.641	7.635	12.46
70)		2-methylthiophene								0.000		-1.00
71)		1,3-dichloropr...	2.684	2.666	2.643	2.520	2.486	2.435	2.479	2.477	2.549	3.88
72)		2-hexanone	2.871	2.954	3.027	2.943	3.013	3.057	3.221	3.321	3.051	4.91
73)		3-methylthiophene								0.000		-1.00
74)		dibromochlorom...	1.958	1.971	2.092	2.148	2.271	2.374	2.533	2.494	2.230	10.04
75)	C	1,2-dibromoethane	2.540	2.522	2.578	2.591	2.568	2.488	2.706	2.747	2.593	3.45
76)		butyl acetate		0.557	0.583	0.606	0.621	0.624	0.680	0.713	0.626	8.68
77)		octane	2.288	2.339	2.332	2.204	2.202	2.236	2.275	2.130	2.251	3.17
78)	C	tetrachloroethene	2.426	2.264	2.264	2.269	2.278	2.238	2.354	2.317	2.301	2.69
79)		1,1,1,2-tetrac...	1.726	1.757	1.771	1.782	1.804	1.891	1.956	1.806	1.812	4.17
80)	C	chlorobenzene	4.696	4.605	4.530	4.523	4.521	4.311	4.464	4.200	4.481	3.54
81)	C	ethylbenzene	7.195	7.212	7.163	7.302	7.430	7.319	7.772	7.355	7.343	2.65
82)		2-ethylthiophene								0.000		-1.00
83)	C	m+p-xylene	5.810	5.774	5.872	5.893	5.942	5.807	5.946	5.293	5.792	3.65
84)	C	bromoform	1.486	1.614	1.642	1.873	2.014	2.197	2.340	2.335	1.938	17.37
85)	C	styrene	4.444	4.550	4.598	4.631	4.722	4.652	4.939	5.015	4.694	4.13
86)	C	1,1,2,2-tetrac...	4.509	4.496	4.470	4.656	4.680	4.439	4.137	3.470	4.357	9.06
87)	C	o-xylene	5.965	5.887	5.916	5.986	6.079	5.882	5.694	4.810	5.778	7.03
88)		1,2,3-trichlor...	3.313	3.332	3.325	3.201	3.187	3.151	3.170	3.170	3.231	2.41
89)		nonane	4.932	4.817	4.777	4.620	4.559	4.463	4.393	4.116	4.585	5.74
90)	s	bromofluoroben...	4.513	4.626	4.582	4.445	4.668	4.972	5.712	6.263	4.973	13.31
91)	C	isopropylbenzene	7.281	7.469	7.465	7.283	7.212	7.281	7.487	7.256	7.342	1.52
92)		bromobenzene	4.496	4.462	4.384	4.251	4.245	4.176	4.157	4.005	4.272	3.90
93)		2-chlorotoluene	2.103	2.102	2.167	2.142	2.214	2.295	2.417	2.330	2.221	5.18

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Method File : TFS15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 15:43:18 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r1540782.D 0.5 =r1540783.D 1.0 =r1540784.D 5.0 =r1540785.D 10 =r1540786.D 20 =r1540787.D
50 =r1540788.D 100 =r1540789.D

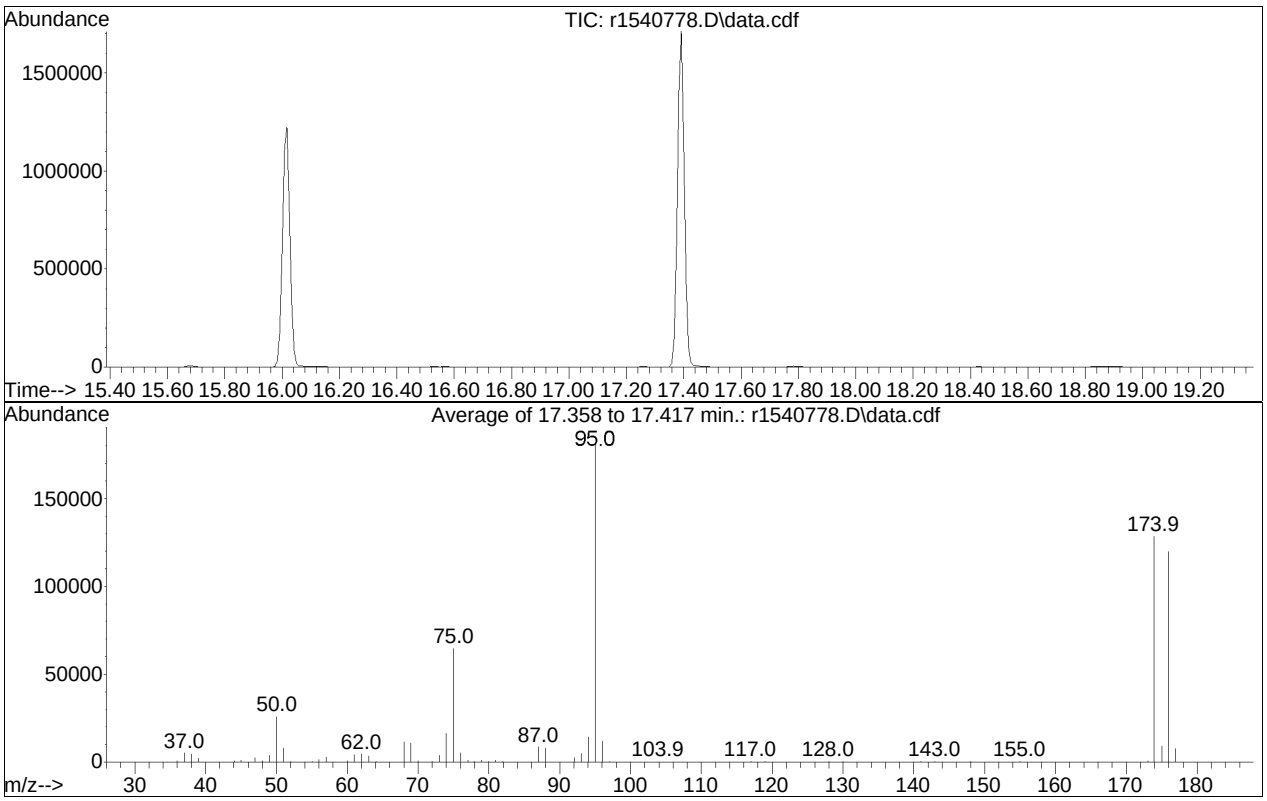
		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)		n-propylbenzene	2.522	2.588	2.532	2.605	2.645	2.675	2.730	2.604	2.613	2.67
95)		4-chlorotoluene	2.168	2.080	2.123	2.152	2.221	2.285	2.423	2.405	2.232	5.74
96)		4-ethyl toluene	7.660	7.584	7.734	7.713	7.742	7.735	8.105	7.755	7.753	1.97
97)		1,3,5-trimethy...	6.775	6.729	6.860	7.865	7.865	6.614	7.638	7.262	7.201	7.31
98)		tert-butylbenzene	7.395	7.289	7.476	7.540	7.381	7.173	6.606	5.483	7.043	9.86
99)		1,2,4-trimethy...	6.397	6.656	6.745	7.064	7.102	6.559	6.237	5.117	6.485	9.68
100)		decane	6.011	6.168	6.244	6.335	6.479	6.381	6.203	5.265	6.136	6.19
101)	C	Benzyl Chloride	2.660	2.824	3.063	3.807	4.307	4.678	5.141	4.728	3.901	24.51
102)		1,3-dichlorobe...	4.354	4.413	4.496	4.833	4.814	4.630	4.846	4.427	4.602	4.48
103)	C	1,4-dichlorobe...	4.257	4.251	4.324	4.721	4.744	4.610	4.867	4.593	4.546	5.25
104)		sec-butylbenzene	9.331	9.665	9.549	9.654	9.615	9.428	9.663	8.673	9.447	3.55
105)		1,2,3-trimethy...	5.632	5.905	5.866	5.578	5.148	5.597	5.229	4.051	5.375	11.13
106)		p-isopropyltol...	8.354	8.895	8.866	8.479	7.556	8.116	7.434	5.480	7.897	14.12
107)		1,2-dichlorobe...	3.997	4.157	4.062	4.566	4.643	4.401	4.551	4.256	4.329	5.70
108)		n-butylbenzene	6.895	7.258	7.386	7.801	8.115	8.001	8.041	7.068	7.571	6.31
109)		indan	6.503	6.643	6.734	6.953	6.995	7.019	6.928	6.398	6.772	3.52
110)		indene	3.830	4.209	4.266	4.487	4.523	4.631	4.804	4.602	4.419	6.93
111)	C	1,2-dibromo-3-...	1.216	1.383	1.444	1.607	1.649	1.624	1.724	1.672	1.540	11.34
112)		undecane	5.605	6.470	6.678	7.156	7.444	7.128	6.771	5.395	6.581	11.18
113)		1,2,4,5-tetram...	1.001	1.128	1.178	1.605	1.674	1.238	1.357	1.376	1.320	17.57
114)		dodecane	3.443	5.521	6.418	6.841	7.807	7.052	6.517	5.081	6.085	22.46
115)	C	1,2,4-trichlor...	2.101	2.662	2.895	3.519	4.062	3.752	4.171	3.742	3.363	21.81
116)		naphthalene	0.576	0.767	0.821	0.894	1.009	0.973	1.033	0.946	0.877	17.34
117)		1,2,3-trichlor...	1.867	2.534	2.755	2.928	3.415	3.279	3.635	3.445	2.982	19.70
118)		benzothiophene		1.246	1.399	1.824	2.093	1.682	1.737	1.355	1.620	18.57
119)	C	hexachlorobuta...	2.190	2.714	2.796	3.056	3.353	2.943	3.139	2.622	2.852	12.55
120)		2-methylnaphth...			1.801	2.850	4.083	3.331	4.315	4.555	3.489	29.93
121)		1-methylnaphth...			2.005	3.097	4.396	3.148	4.007	4.275	3.488	26.22

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540778.D
Acq On : 20 Nov 2023 7:17 PM
Operator : AIRLAB15:RAY
Sample : WG1855304-1,3,250,250
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 15:43:18 2023



Spectrum Information: Average of 17.358 to 17.417 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.2	25835	PASS
75	95	30	66	35.5	64580	PASS
95	95	100	100	100.0	181779	PASS
96	95	5	9	6.5	11770	PASS
173	174	0.00	2	0.5	704	PASS
174	95	50	120	70.7	128569	PASS
175	174	4	9	7.1	9128	PASS
176	174	93	101	93.1	119714	PASS
177	176	5	9	6.4	7707	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540782.D
Acq On : 20 Nov 2023 9:44 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:27 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.075	49	333899	10.000	ppbV	0.00
Standard Area = 345270			Recovery = 96.71%			
43) 1,4-difluorobenzene	11.293	114	964303	10.000	ppbV	0.00
Standard Area = 974868			Recovery = 98.92%			
67) chlorobenzene-D5	16.008	54	161932	10.000	ppbV	0.00
Standard Area = 166825			Recovery = 97.07%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.933	65	353006	8.678	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.78%			
69) toluene-D8	14.142	98	1154786	8.872	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.72%			
90) bromofluorobenzene	17.392	95	730858	8.617	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.17%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	7431	0.243	ppbV #	94
3) propylene	3.922	41	4049M6	0.194	ppbV	
4) propane	3.946	29	6068	0.244	ppbV	99
5) dichlorodifluoromethane	3.994	85	8654	0.274	ppbV	94
6) chloromethane	4.156	50	3272	0.160	ppbV	96
7) Freon-114	4.264	85	8711	0.229	ppbV	91
8) methanol	4.336	31	11050	1.121	ppbV #	22
9) vinyl chloride	4.384	62	4525	0.227	ppbV	94
10) 1,3-butadiene	4.528	54	3268	0.202	ppbV	90
11) butane	4.582	43	5732	0.159	ppbV	96
12) acetaldehyde	4.288	29	9478	0.813	ppbV	95
13) bromomethane	4.810	94	3781	0.251	ppbV	97
14) chloroethane	5.002	64	2369	0.245	ppbV	99
15) ethanol	5.146	31	15831	1.022	ppbV	98
16) dichlorofluoromethane	5.110	67	7249	0.213	ppbV	95
17) vinyl bromide	5.377	106	3240	0.218	ppbV	85
18) acrolein	5.510	56	1874	0.207	ppbV #	84
19) acetone	5.663	43	21945	0.854	ppbV #	99
20) acetonitrile	5.380	41	3540M4	0.175	ppbV	
21) trichlorofluoromethane	5.833	101	6333	0.268	ppbV	99
22) isopropyl alcohol	5.953	45	13294	0.364	ppbV #	92
23) acrylonitrile	6.170	53	2776	0.157	ppbV #	84
24) pentane	6.230	43	7086	0.137	ppbV #	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540782.D
Acq On : 20 Nov 2023 9:44 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:27 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.270	31	8281	0.219	ppbV		98
26) 1,1-dichloroethene	6.534	61	6951	0.222	ppbV		97
27) tertiary butyl alcohol	6.630	59	7766	0.202	ppbV	#	89
28) methylene chloride	6.678	49	6224	0.234	ppbV		88
29) 3-chloropropene	6.804	41	5679	0.153	ppbV		89
30) carbon disulfide	6.978	76	12531	0.231	ppbV	#	78
31) Freon 113	6.972	101	7901	0.224	ppbV		94
32) trans-1,2-dichloroethene	7.725	61	6769	0.221	ppbV		99
33) 1,1-dichloroethane	7.942	63	8534	0.209	ppbV		98
34) MTBE	8.033	73	10277	0.201	ppbV	#	95
35) vinyl acetate	8.133	43	8543	0.159	ppbV		99
36) 2-butanone	8.408	43	9426	0.168	ppbV		98
37) cis-1,2-dichloroethene	8.892	61	6379	0.214	ppbV		93
38) Ethyl Acetate	9.175	61	1661	0.209	ppbV		73
39) chloroform	9.225	83	9179	0.268	ppbV		100
40) Tetrahydrofuran	9.700	42	5883	0.167	ppbV		94
41) 2,2-dichloropropane	9.250	77	5660	0.215	ppbV	#	86
42) 1,2-dichloroethane	10.058	62	5860	0.255	ppbV	#	93
44) hexane	9.142	57	9252	0.202	ppbV	#	52
45) diisopropyl ether	9.150	87	4402	0.201	ppbV		85
46) tert-butyl ethyl ether	9.767	59	15213	0.185	ppbV		97
48) 1,1,1-trichloroethane	10.350	97	6408	0.195	ppbV		96
49) 1,1-dichloropropene	10.713	75	6689	0.186	ppbV		97
50) benzene	10.873	78	16828	0.201	ppbV		99
51) thiophene	0.000		0	N.D.	d		
52) carbon tetrachloride	11.047	117	6040	0.224	ppbV		98
53) cyclohexane	11.187	56	9883	0.203	ppbV		99
54) tert-amyl methyl ether	11.580	73	12164	0.170	ppbV		98
55) dibromomethane	11.787	93	4728	0.196	ppbV		94
56) 1,2-dichloropropane	11.820	63	6032	0.180	ppbV		92
57) bromodichloromethane	12.047	83	7782	0.213	ppbV		93
58) 1,4-dioxane	12.120	88	3712	0.202	ppbV	#	78
59) trichloroethene	12.100	130	6351	0.201	ppbV		96
60) 2,2,4-trimethylpentane	12.147	57	30395	0.203	ppbV		99
61) methyl methacrylate	12.347	41	5188	0.129	ppbV		99
62) heptane	12.453	43	9915	0.144	ppbV		99
63) cis-1,3-dichloropropene	13.117	75	7077	0.170	ppbV		93
64) 4-methyl-2-pentanone	13.175	43	11826	0.150	ppbV		95
65) trans-1,3-dichloropropene	13.742	75	5230	0.158	ppbV		93
66) 1,1,2-trichloroethane	13.942	97	5625	0.181	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540782.D
Acq On : 20 Nov 2023 9:44 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:27 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.250	91	19042	0.198	ppbV		99
70) 2-methylthiophene	0.000		0	N.D.	d		
71) 1,3-dichloropropane	14.283	76	8693	0.193	ppbV		96
72) 2-hexanone	14.550	43	9298	0.125	ppbV	#	92
73) 3-methylthiophene	0.000		0	N.D.	d		
74) dibromochloromethane	14.700	129	6342	0.191	ppbV		99
75) 1,2-dibromoethane	14.950	107	8227	0.189	ppbV		92
76) butyl acetate	15.192	73	1738	0.149	ppbV		94
77) octane	15.275	85	7411	0.209	ppbV		96
78) tetrachloroethene	15.400	166	7856	0.219	ppbV		96
79) 1,1,1,2-tetrachloroethane	16.033	131	5591	0.190	ppbV		97
80) chlorobenzene	16.050	112	15209	0.209	ppbV		99
81) ethylbenzene	16.400	91	23301	0.184	ppbV		96
82) 2-ethylthiophene	0.000		0	N.D.	d		
83) m+p-xylene	16.575	91	37631	0.381	ppbV		100
84) bromoform	16.633	173	4812	0.176	ppbV	#	91
85) styrene	16.892	104	14392	0.184	ppbV		99
86) 1,1,2,2-tetrachloroethane	16.992	83	14603	0.197	ppbV		97
87) o-xylene	16.992	91	19319	0.195	ppbV		99
88) 1,2,3-trichloropropane	17.108	75	10731	0.190	ppbV		96
89) nonane	17.183	43	15973	0.155	ppbV		89
91) isopropylbenzene	17.500	105	23581	0.191	ppbV		99
92) bromobenzene	17.583	77	14562	0.200	ppbV		93
93) 2-chlorotoluene	17.908	126	6812	0.189	ppbV		92
94) n-propylbenzene	17.942	120	8168	0.198	ppbV		94
95) 4-chlorotoluene	17.975	126	7022	0.195	ppbV		99
96) 4-ethyl toluene	18.067	105	24808	0.190	ppbV		97
97) 1,3,5-trimethylbenzene	18.125	105	21941	0.181	ppbV		99
98) tert-butylbenzene	18.467	119	23949	0.212	ppbV		99
99) 1,2,4-trimethylbenzene	18.475	105	20719	0.187	ppbV		98
100) decane	18.550	57	19466	0.175	ppbV		91
101) Benzyl Chloride	18.592	91	8615	0.125	ppbV		96
102) 1,3-dichlorobenzene	18.600	146	14100	0.191	ppbV		100
103) 1,4-dichlorobenzene	18.658	146	13787	0.189	ppbV		97
104) sec-butylbenzene	18.692	105	30221	0.190	ppbV		94
105) 1,2,3-trimethylbenzene	18.825	105	18239	0.199	ppbV		99
106) p-isopropyltoluene	18.825	119	27055	0.221	ppbV		95
107) 1,2-dichlorobenzene	18.942	146	12944	0.181	ppbV		96
108) n-butylbenzene	19.175	91	22332	0.171	ppbV		99
109) indan	19.000	117	21062	0.192	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540782.D
Acq On : 20 Nov 2023 9:44 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:27 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

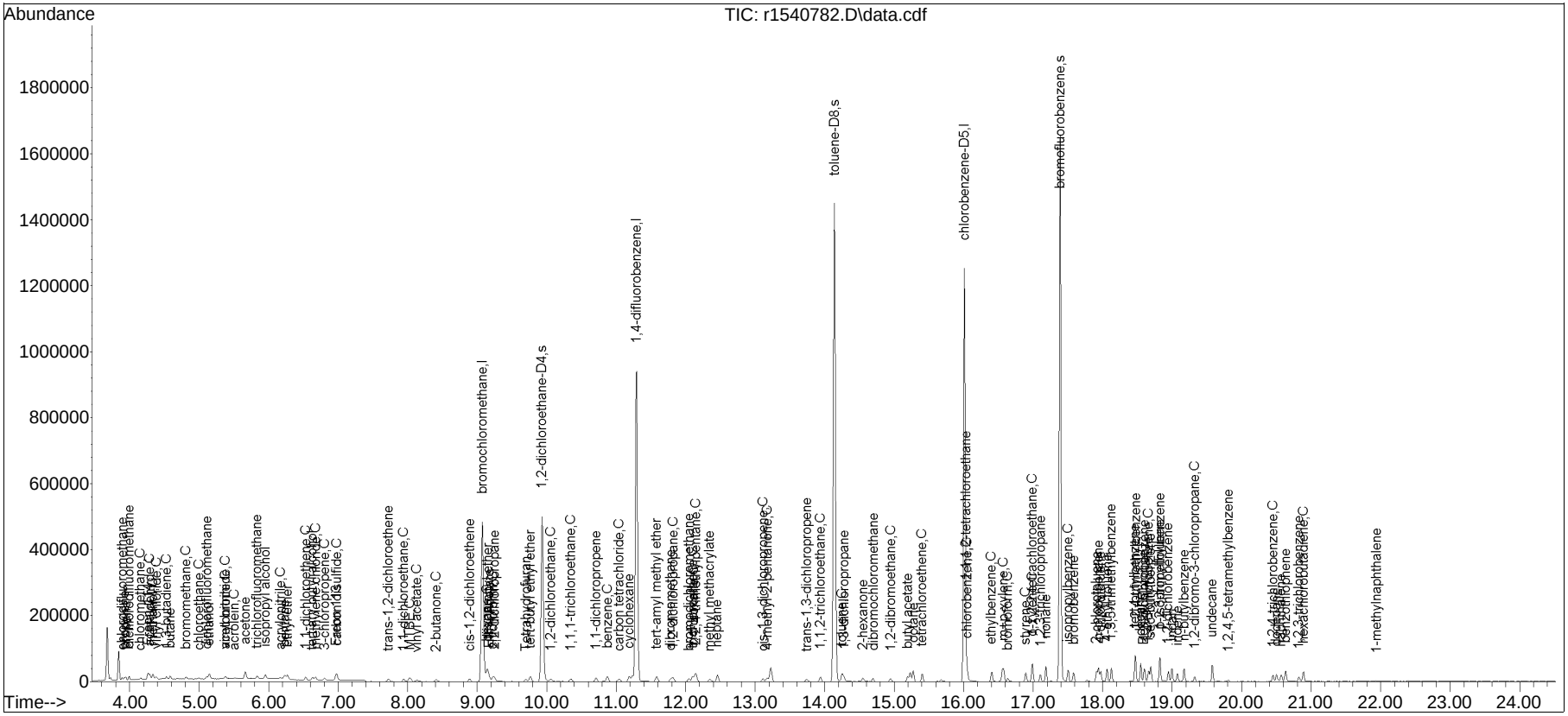
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.075	115	12404	0.167	ppbV		95
111) 1,2-dibromo-3-chloropr...	19.325	75	3937	0.154	ppbV	#	72
112) undecane	19.575	57	18154	0.151	ppbV		94
113) 1,2,4,5-tetramethylben...	19.808	119	3243	0.160	ppbV		93
114) dodecane	20.500	57	11152	0.101	ppbV		90
115) 1,2,4-trichlorobenzene	20.450	180	6803	0.134	ppbV	#	87
116) naphthalene	20.567	128	18647	0.127	ppbV	#	95
117) 1,2,3-trichlorobenzene	20.825	180	6045	0.136	ppbV		99
118) benzothiophene	20.633	134	29463	0.117	ppbV		98
119) hexachlorobutadiene	20.892	225	7093	0.174	ppbV	#	90
120) 2-methylnaphthalene	21.767		0	N.D.			
121) 1-methylnaphthalene	21.942	142	2918	0.061	ppbV	#	74

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

Sub List : Default - All compounds listed3\11\1120T_I\r1540786.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540782.D
Acq On : 20 Nov 2023 9:44 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:27 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

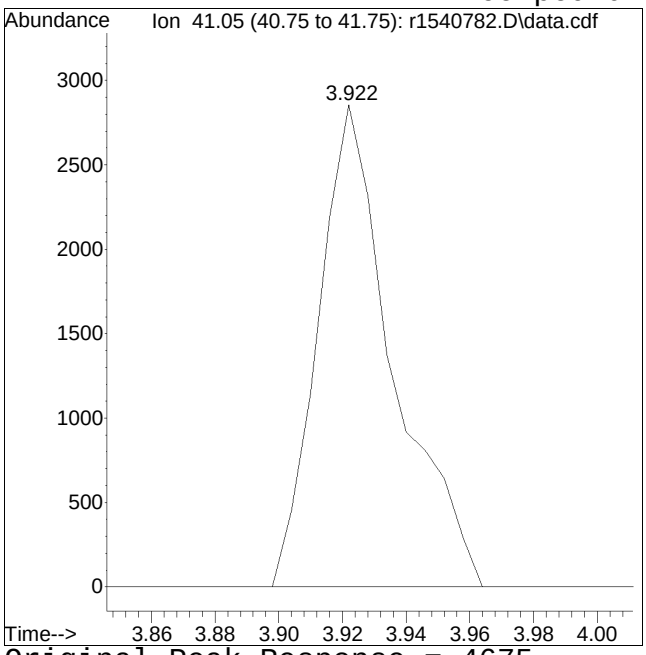


Manual Integration Report

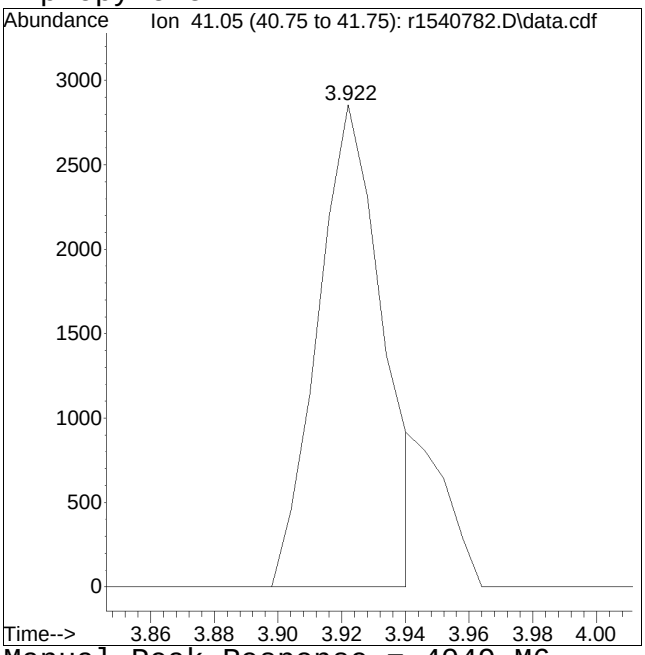
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1540782.D
Date Inj'd : 11/20/2020 0:9: 4
Sample : ITO15-SIMSTD0.2

Method : TFS15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 9:58 am

Compound #3: propylene



Original Peak Response = 4675



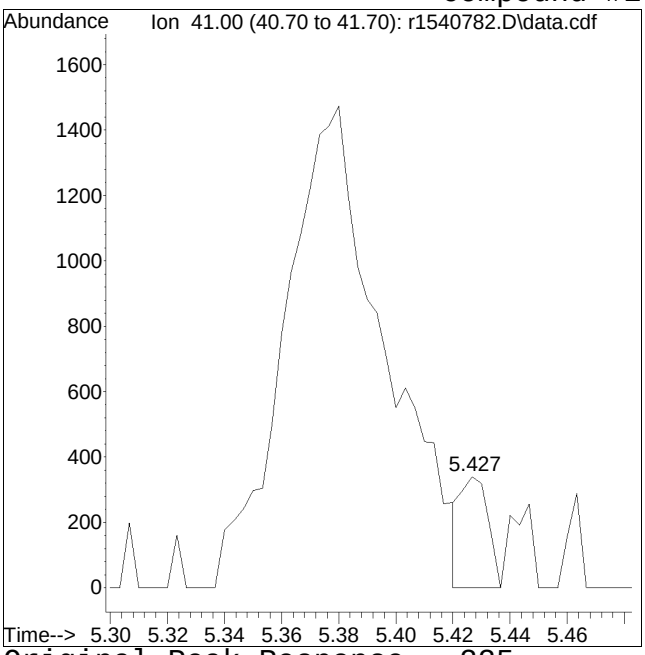
Manual Peak Response = 4049 M6

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

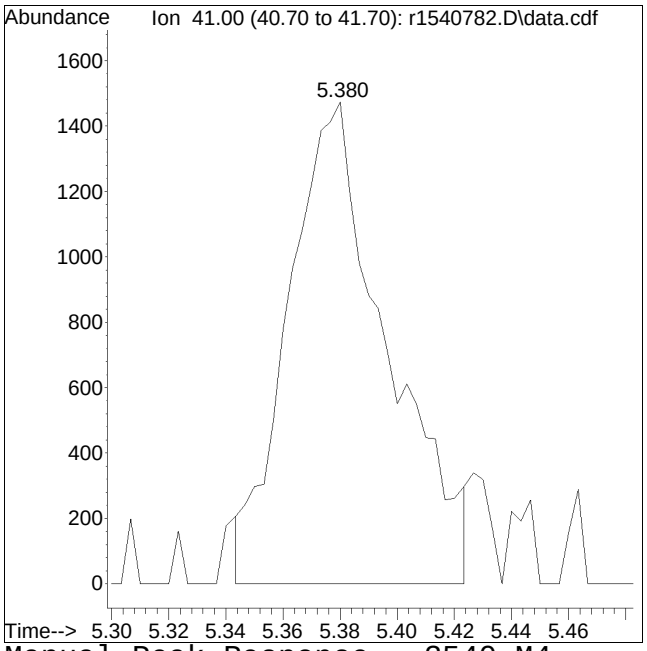
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540782.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:9: 4 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 11/21/2023 9:58 am

Compound #20: acetonitrile



Original Peak Response = 225



Manual Peak Response = 3540 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540783.D
Acq On : 20 Nov 2023 10:22 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:53 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.075	49	332569	10.000	ppbV		0.00
Standard Area = 345270			Recovery = 96.32%				
43) 1,4-difluorobenzene	11.293	114	958310	10.000	ppbV		0.00
Standard Area = 974868			Recovery = 98.30%				
67) chlorobenzene-D5	16.008	54	162101	10.000	ppbV		0.00
Standard Area = 166825			Recovery = 97.17%				
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	9.933	65	365226	9.035	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.35%				
69) toluene-D8	14.142	98	1167042	8.957	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.57%				
90) bromofluorobenzene	17.383	95	749849	8.831	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.31%				
Target Compounds							Qvalue
2) chlorodifluoromethane	3.892	51	18246	0.599	ppbV		98
3) propylene	3.928	41	9362M6	0.449	ppbV		
4) propane	3.946	29	13846	0.560	ppbV		95
5) dichlorodifluoromethane	3.994	85	21656	0.689	ppbV		98
6) chloromethane	4.162	50	7853	0.386	ppbV		99
7) Freon-114	4.264	85	21262	0.560	ppbV		98
8) methanol	4.336	31	26685	2.719	ppbV	#	69
9) vinyl chloride	4.390	62	10721	0.539	ppbV		95
10) 1,3-butadiene	4.534	54	7710	0.477	ppbV		98
11) butane	4.588	43	13406	0.372	ppbV		99
12) acetaldehyde	4.294	29	23422	2.016	ppbV		98
13) bromomethane	4.816	94	8927	0.594	ppbV		96
14) chloroethane	5.002	64	5398	0.560	ppbV		94
15) ethanol	5.146	31	39328	2.549	ppbV		98
16) dichlorofluoromethane	5.110	67	17893	0.528	ppbV		97
17) vinyl bromide	5.380	106	7933	0.536	ppbV		92
18) acrolein	5.513	56	4268	0.473	ppbV	#	92
19) acetone	5.663	43	52242	2.042	ppbV	#	100
20) acetonitrile	5.373	41	8169	0.405	ppbV		92
21) trichlorofluoromethane	5.840	101	15269	0.650	ppbV		99
22) isopropyl alcohol	5.953	45	32885	0.903	ppbV		97
23) acrylonitrile	6.170	53	8988	0.510	ppbV		99
24) pentane	6.233	43	22106	0.430	ppbV		98

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540783.D
Acq On : 20 Nov 2023 10:22 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:53 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.273	31	21169	0.561	ppbV		97
26) 1,1-dichloroethene	6.534	61	16754	0.538	ppbV		97
27) tertiary butyl alcohol	6.630	59	19145	0.501	ppbV		93
28) methylene chloride	6.672	49	14553	0.548	ppbV		96
29) 3-chloropropene	6.810	41	14751	0.399	ppbV		98
30) carbon disulfide	6.984	76	30724	0.569	ppbV	#	90
31) Freon 113	6.978	101	19224	0.546	ppbV		96
32) trans-1,2-dichloroethene	7.725	61	16177	0.529	ppbV		97
33) 1,1-dichloroethane	7.942	63	21157	0.519	ppbV		96
34) MTBE	8.033	73	25489	0.501	ppbV		96
35) vinyl acetate	8.133	43	20550	0.383	ppbV		99
36) 2-butanone	8.408	43	22981	0.410	ppbV		99
37) cis-1,2-dichloroethene	8.892	61	15382	0.518	ppbV		98
38) Ethyl Acetate	9.175	61	3862	0.488	ppbV		65
39) chloroform	9.225	83	22130	0.648	ppbV		99
40) Tetrahydrofuran	9.692	42	13764	0.391	ppbV		97
41) 2,2-dichloropropane	9.250	77	14910	0.570	ppbV		97
42) 1,2-dichloroethane	10.058	62	13142	0.573	ppbV		94
44) hexane	9.142	57	22916	0.503	ppbV	#	60
45) diisopropyl ether	9.150	87	11225	0.516	ppbV		99
46) tert-butyl ethyl ether	9.758	59	36794	0.451	ppbV		99
48) 1,1,1-trichloroethane	10.350	97	16000	0.490	ppbV		99
49) 1,1-dichloropropene	10.713	75	16431	0.460	ppbV		98
50) benzene	10.873	78	41464	0.499	ppbV		99
51) thiophene	0.000		0	N.D.	d		
52) carbon tetrachloride	11.047	117	14554	0.542	ppbV		99
53) cyclohexane	11.193	56	23960	0.494	ppbV		99
54) tert-amyl methyl ether	11.580	73	30007	0.422	ppbV		98
55) dibromomethane	11.787	93	11650	0.487	ppbV		98
56) 1,2-dichloropropane	11.820	63	14292	0.429	ppbV		99
57) bromodichloromethane	12.047	83	20590	0.568	ppbV		97
58) 1,4-dioxane	12.113	88	9032	0.494	ppbV		93
59) trichloroethene	12.100	130	15804	0.504	ppbV		97
60) 2,2,4-trimethylpentane	12.147	57	74930	0.503	ppbV		98
61) methyl methacrylate	12.347	41	13263	0.333	ppbV		98
62) heptane	12.460	43	24376	0.357	ppbV		98
63) cis-1,3-dichloropropene	13.108	75	17456	0.421	ppbV		97
64) 4-methyl-2-pentanone	13.167	43	27689	0.354	ppbV		98
65) trans-1,3-dichloropropene	13.733	75	13679	0.417	ppbV		98
66) 1,1,2-trichloroethane	13.933	97	14136	0.457	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540783.D
Acq On : 20 Nov 2023 10:22 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:53 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	46593	0.483	ppbV	99
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	14.275	76	21606	0.480	ppbV	98
72) 2-hexanone	14.550	43	23944	0.322	ppbV	94
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	14.692	129	15976	0.480	ppbV	99
75) 1,2-dibromoethane	14.942	107	20437	0.469	ppbV	93
76) butyl acetate	15.183	73	4511	0.386	ppbV	86
77) octane	15.275	85	18954	0.533	ppbV	99
78) tetrachloroethene	15.400	166	18352	0.512	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.033	131	14238	0.482	ppbV	99
80) chlorobenzene	16.050	112	37324	0.513	ppbV	97
81) ethylbenzene	16.400	91	58455	0.462	ppbV	99
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	16.575	91	93598	0.946	ppbV	99
84) bromoform	16.633	173	13079	0.478	ppbV	97
85) styrene	16.892	104	36875	0.472	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.983	83	36438	0.492	ppbV	98
87) o-xylene	16.983	91	47718	0.481	ppbV	98
88) 1,2,3-trichloropropane	17.100	75	27004	0.478	ppbV	97
89) nonane	17.183	43	39045	0.378	ppbV	92
91) isopropylbenzene	17.500	105	60534	0.490	ppbV	99
92) bromobenzene	17.583	77	36165	0.497	ppbV	99
93) 2-chlorotoluene	17.908	126	17039	0.473	ppbV	93
94) n-propylbenzene	17.942	120	20978	0.508	ppbV	99
95) 4-chlorotoluene	17.967	126	16859	0.469	ppbV	97
96) 4-ethyl toluene	18.058	105	61470	0.471	ppbV	99
97) 1,3,5-trimethylbenzene	18.125	105	54541	0.450	ppbV	98
98) tert-butylbenzene	18.467	119	59078	0.521	ppbV	99
99) 1,2,4-trimethylbenzene	18.467	105	53947	0.487	ppbV	96
100) decane	18.550	57	49991	0.448	ppbV	96
101) Benzyl Chloride	18.592	91	22891	0.331	ppbV	97
102) 1,3-dichlorobenzene	18.600	146	35771	0.483	ppbV	97
103) 1,4-dichlorobenzene	18.658	146	34456	0.471	ppbV	97
104) sec-butylbenzene	18.692	105	78336	0.493	ppbV	96
105) 1,2,3-trimethylbenzene	18.825	105	47862	0.522	ppbV	99
106) p-isopropyltoluene	18.817	119	72092	0.587	ppbV	92
107) 1,2-dichlorobenzene	18.942	146	33689	0.471	ppbV	95
108) n-butylbenzene	19.167	91	58829	0.450	ppbV	100
109) indan	18.992	117	53842	0.489	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540783.D
Acq On : 20 Nov 2023 10:22 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:58:53 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

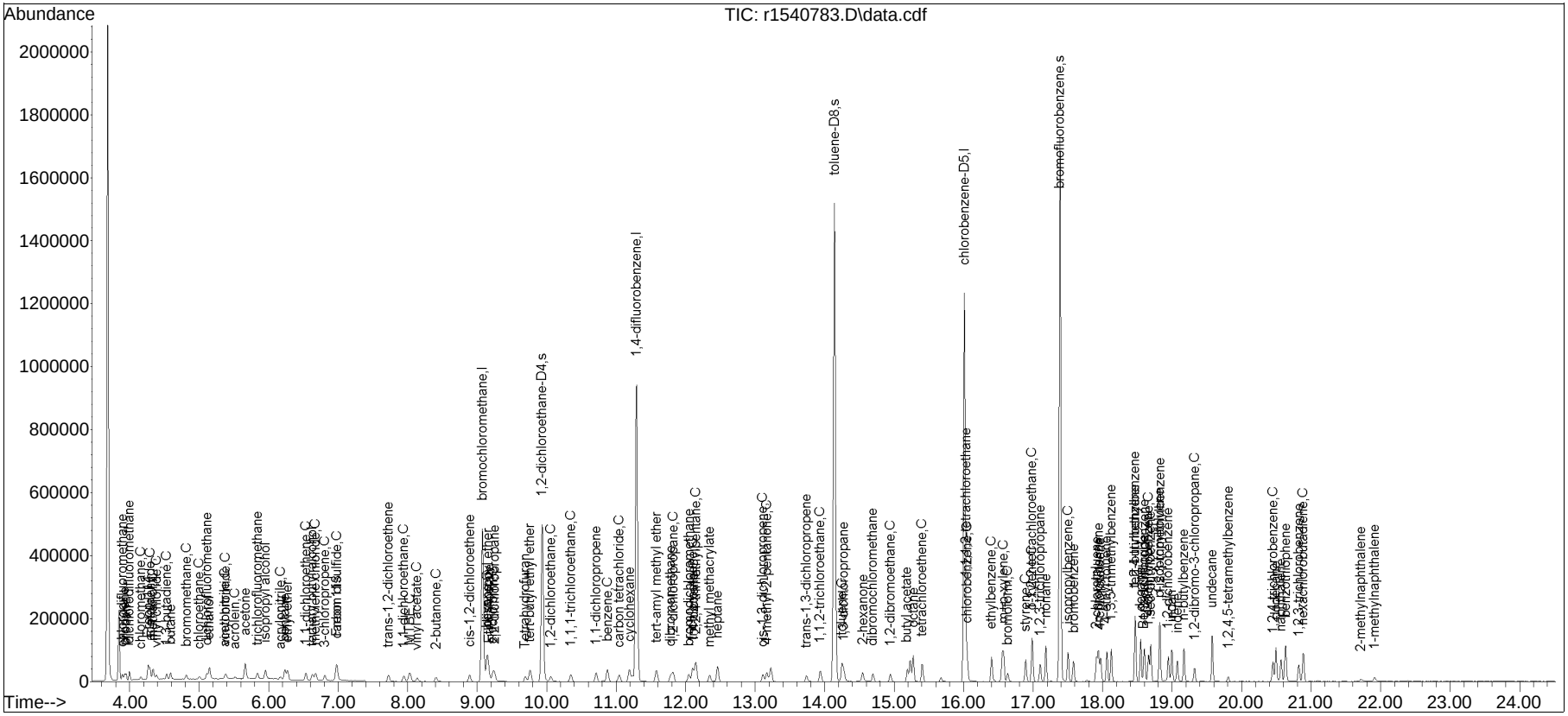
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.075	115	34114	0.460	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.325	75	11212	0.438	ppbV	83
112) undecane	19.575	57	52437	0.435	ppbV	94
113) 1,2,4,5-tetramethylben...	19.808	119	9141	0.452	ppbV	90
114) dodecane	20.492	57	44745	0.404	ppbV	93
115) 1,2,4-trichlorobenzene	20.450	180	21575	0.426	ppbV #	92
116) naphthalene	20.567	128	62190	0.423	ppbV	98
117) 1,2,3-trichlorobenzene	20.825	180	20539	0.462	ppbV #	94
118) benzothiophene	20.633	134	100967	0.401	ppbV #	98
119) hexachlorobutadiene	20.883	225	21998	0.539	ppbV	96
120) 2-methylnaphthalene	21.717	142	9410	0.191	ppbV	95
121) 1-methylnaphthalene	21.908	142	13259M4	0.277	ppbV	

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

Sub List : Default - All compounds listed3\11\1120T_I\r1540786.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540783.D
Acq On : 20 Nov 2023 10:22 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

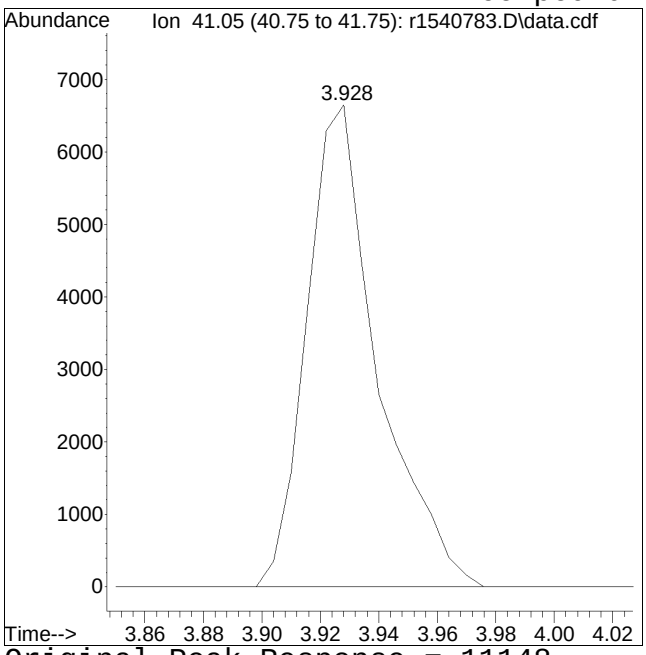
Quant Time: Nov 21 09:58:53 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration



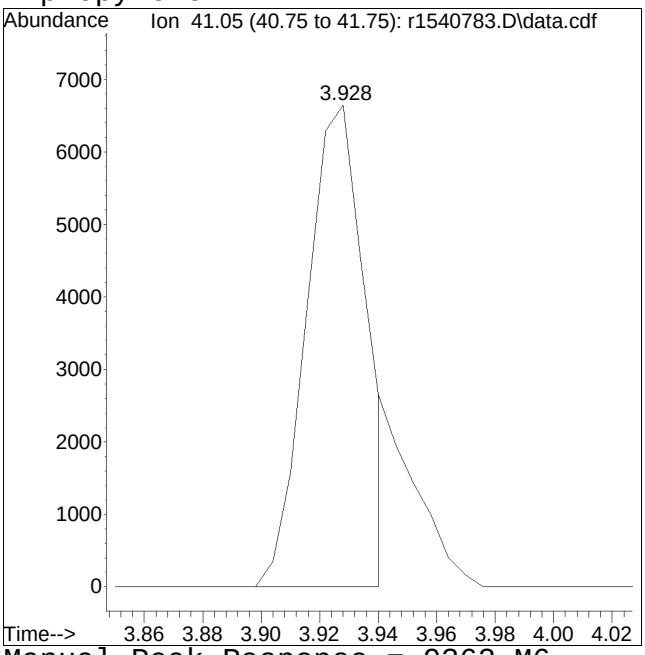
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540783.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:0: 2 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/21/2023 9:58 am

Compound #3: propylene



Original Peak Response = 11148



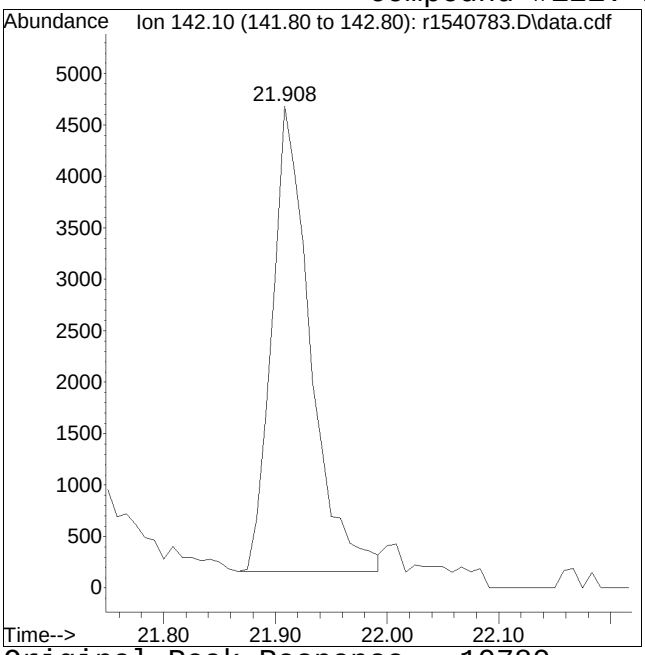
Manual Peak Response = 9362 M6

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

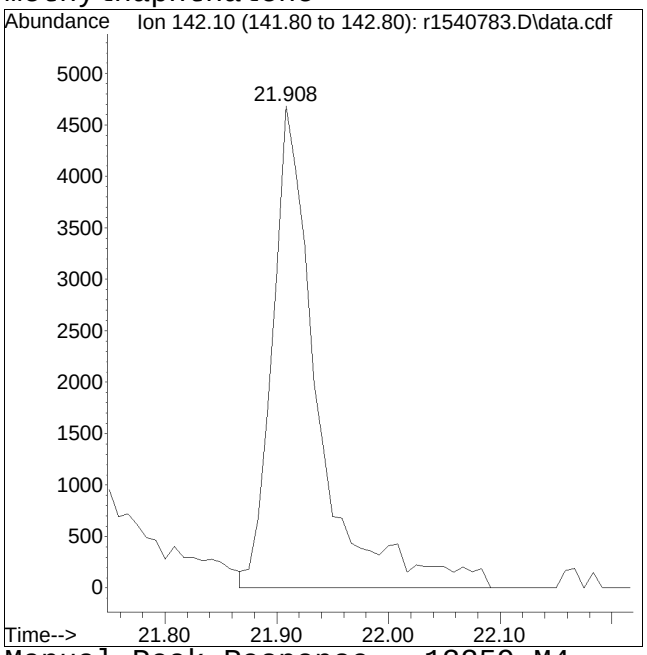
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540783.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:0: 2 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/21/2023 9:58 am

Compound #121: 1-methylnaphthalene



Original Peak Response = 10780



Manual Peak Response = 13259 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540784.D
Acq On : 20 Nov 2023 11:03 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:13 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.075	49	332978	10.000	ppbV	0.00
Standard Area = 345270			Recovery = 96.44%			
43) 1,4-difluorobenzene	11.293	114	963386	10.000	ppbV	0.00
Standard Area = 974868			Recovery = 98.82%			
67) chlorobenzene-D5	16.008	54	163146	10.000	ppbV	0.00
Standard Area = 166825			Recovery = 97.79%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.933	65	359446	8.845	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.45%			
69) toluene-D8	14.142	98	1154347	8.803	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.03%			
90) bromofluorobenzene	17.392	95	747587	8.748	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.48%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	35573	1.167	ppbV	99
3) propylene	3.922	41	18690M6	0.896	ppbV	
4) propane	3.946	29	27390	1.106	ppbV	98
5) dichlorodifluoromethane	3.994	85	42668	1.356	ppbV	100
6) chloromethane	4.156	50	16302	0.801	ppbV	100
7) Freon-114	4.264	85	42101	1.108	ppbV	96
8) methanol	4.330	31	53036	5.396	ppbV #	86
9) vinyl chloride	4.384	62	22148	1.112	ppbV	97
10) 1,3-butadiene	4.528	54	15756	0.974	ppbV	95
11) butane	4.588	43	26742	0.742	ppbV	99
12) acetaldehyde	4.288	29	45616	3.922	ppbV	97
13) bromomethane	4.810	94	17826	1.184	ppbV	99
14) chloroethane	4.996	64	10534	1.091	ppbV	98
15) ethanol	5.140	31	76620	4.961	ppbV	100
16) dichlorofluoromethane	5.110	67	34899	1.029	ppbV	100
17) vinyl bromide	5.380	106	15745	1.063	ppbV	98
18) acrolein	5.513	56	8745	0.967	ppbV	88
19) acetone	5.653	43	102268	3.992	ppbV	98
20) acetonitrile	5.370	41	16382	0.811	ppbV	95
21) trichlorofluoromethane	5.837	101	30786	1.308	ppbV	99
22) isopropyl alcohol	5.943	45	64162	1.760	ppbV #	96
23) acrylonitrile	6.163	53	15027M6	0.852	ppbV	
24) pentane	6.233	43	43899	0.853	ppbV	98

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540784.D
Acq On : 20 Nov 2023 11:03 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:13 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.263	31	42144	1.116	ppbV	97
26) 1,1-dichloroethene	6.534	61	33277	1.067	ppbV	98
27) tertiary butyl alcohol	6.612	59	39245	1.026	ppbV	98
28) methylene chloride	6.678	49	28737	1.082	ppbV	97
29) 3-chloropropene	6.804	41	29269	0.790	ppbV	96
30) carbon disulfide	6.978	76	63429	1.173	ppbV	95
31) Freon 113	6.972	101	38298	1.087	ppbV	99
32) trans-1,2-dichloroethene	7.725	61	33348	1.090	ppbV	94
33) 1,1-dichloroethane	7.942	63	41286	1.012	ppbV	98
34) MTBE	8.025	73	51527	1.012	ppbV	97
35) vinyl acetate	8.133	43	42886	0.799	ppbV	97
36) 2-butanone	8.400	43	46813	0.835	ppbV	98
37) cis-1,2-dichloroethene	8.892	61	31392	1.055	ppbV	98
38) Ethyl Acetate	9.167	61	8565	1.081	ppbV	71
39) chloroform	9.225	83	44006	1.287	ppbV	97
40) Tetrahydrofuran	9.683	42	28071M6	0.797	ppbV	
41) 2,2-dichloropropane	9.250	77	29685	1.133	ppbV	97
42) 1,2-dichloroethane	10.058	62	25531	1.113	ppbV	97
44) hexane	9.142	57	45441	0.993	ppbV	78
45) diisopropyl ether	9.142	87	22530	1.031	ppbV	93
46) tert-butyl ethyl ether	9.758	59	75165	0.916	ppbV	98
48) 1,1,1-trichloroethane	10.350	97	32558	0.992	ppbV	98
49) 1,1-dichloropropene	10.713	75	33097	0.923	ppbV	99
50) benzene	10.873	78	83058	0.994	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	11.040	117	29834	1.105	ppbV	99
53) cyclohexane	11.187	56	48729	1.000	ppbV	98
54) tert-amyl methyl ether	11.573	73	60374	0.844	ppbV	99
55) dibromomethane	11.780	93	23536	0.978	ppbV	98
56) 1,2-dichloropropane	11.820	63	28628	0.854	ppbV	98
57) bromodichloromethane	12.047	83	40762	1.118	ppbV	97
58) 1,4-dioxane	12.100	88	18235	0.992	ppbV	98
59) trichloroethene	12.093	130	31405	0.997	ppbV	95
60) 2,2,4-trimethylpentane	12.147	57	150848	1.007	ppbV	99
61) methyl methacrylate	12.340	41	26973	0.673	ppbV	100
62) heptane	12.460	43	49896	0.727	ppbV	96
63) cis-1,3-dichloropropene	13.108	75	35417	0.850	ppbV	98
64) 4-methyl-2-pentanone	13.158	43	54428	0.693	ppbV	97
65) trans-1,3-dichloropropene	13.733	75	28271	0.856	ppbV	96
66) 1,1,2-trichloroethane	13.933	97	28191	0.906	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540784.D
Acq On : 20 Nov 2023 11:03 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:13 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	91900	0.946	ppbV	98
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	14.275	76	43116	0.952	ppbV	98
72) 2-hexanone	14.542	43	49389	0.659	ppbV	98
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	14.692	129	34125	1.019	ppbV	99
75) 1,2-dibromoethane	14.942	107	42060	0.958	ppbV	99
76) butyl acetate	15.183	73	9504	0.808	ppbV	98
77) octane	15.275	85	38040	1.062	ppbV	99
78) tetrachloroethene	15.400	166	36937	1.023	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.033	131	28901	0.973	ppbV	94
80) chlorobenzene	16.050	112	73902	1.009	ppbV	99
81) ethylbenzene	16.400	91	116857	0.918	ppbV	98
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	16.567	91	191611	1.925	ppbV	98
84) bromoform	16.633	173	26795	0.973	ppbV	96
85) styrene	16.892	104	75011	0.953	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.983	83	72923	0.978	ppbV	99
87) o-xylene	16.983	91	96523	0.966	ppbV	98
88) 1,2,3-trichloropropane	17.100	75	54239	0.954	ppbV	99
89) nonane	17.183	43	77943	0.750	ppbV	96
91) isopropylbenzene	17.500	105	121790	0.980	ppbV	100
92) bromobenzene	17.583	77	71520	0.976	ppbV	98
93) 2-chlorotoluene	17.908	126	35361	0.975	ppbV	99
94) n-propylbenzene	17.942	120	41314	0.995	ppbV	93
95) 4-chlorotoluene	17.975	126	34633	0.957	ppbV	99
96) 4-ethyl toluene	18.058	105	126170	0.960	ppbV	98
97) 1,3,5-trimethylbenzene	18.125	105	111923	0.917	ppbV	100
98) tert-butylbenzene	18.467	119	121971	1.069	ppbV	96
99) 1,2,4-trimethylbenzene	18.467	105	110035	0.988	ppbV	96
100) decane	18.550	57	101874	0.908	ppbV	92
101) Benzyl Chloride	18.592	91	49978	0.717	ppbV	99
102) 1,3-dichlorobenzene	18.600	146	73350	0.984	ppbV	98
103) 1,4-dichlorobenzene	18.658	146	70549	0.958	ppbV	97
104) sec-butylbenzene	18.692	105	155792	0.975	ppbV	99
105) 1,2,3-trimethylbenzene	18.825	105	95695	1.036	ppbV	97
106) p-isopropyltoluene	18.817	119	144643	1.171	ppbV	94
107) 1,2-dichlorobenzene	18.942	146	66266	0.920	ppbV	93
108) n-butylbenzene	19.167	91	120498	0.915	ppbV	98
109) indan	18.992	117	109869	0.992	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540784.D
Acq On : 20 Nov 2023 11:03 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:13 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

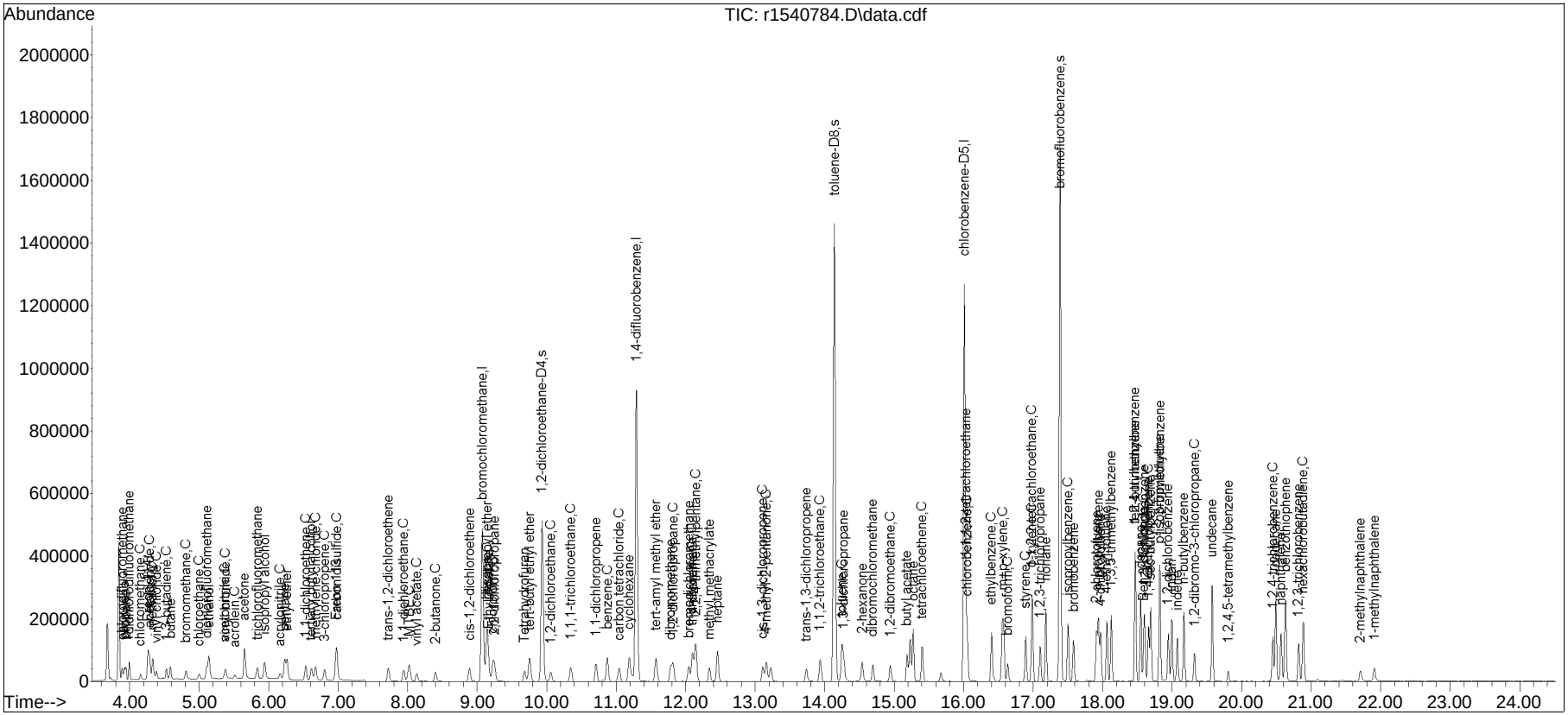
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.075	115	69601	0.933	ppbV		99
111) 1,2-dibromo-3-chloropr...	19.325	75	23565	0.914	ppbV		82
112) undecane	19.575	57	108955	0.899	ppbV		93
113) 1,2,4,5-tetramethylben...	19.808	119	19222	0.943	ppbV		96
114) dodecane	20.492	57	104700	0.939	ppbV		94
115) 1,2,4-trichlorobenzene	20.450	180	47235	0.926	ppbV	#	91
116) naphthalene	20.567	128	133929	0.905	ppbV		97
117) 1,2,3-trichlorobenzene	20.817	180	44945	1.005	ppbV		97
118) benzothiophene	20.633	134	228250	0.901	ppbV		98
119) hexachlorobutadiene	20.883	225	45615	1.111	ppbV		95
120) 2-methylnaphthalene	21.708	142	29383	0.593	ppbV		96
121) 1-methylnaphthalene	21.908	142	32707	0.679	ppbV		97

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

Sub List : Default - All compounds listed3\11\1120T_I\r1540786.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540784.D
Acq On : 20 Nov 2023 11:03 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:13 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

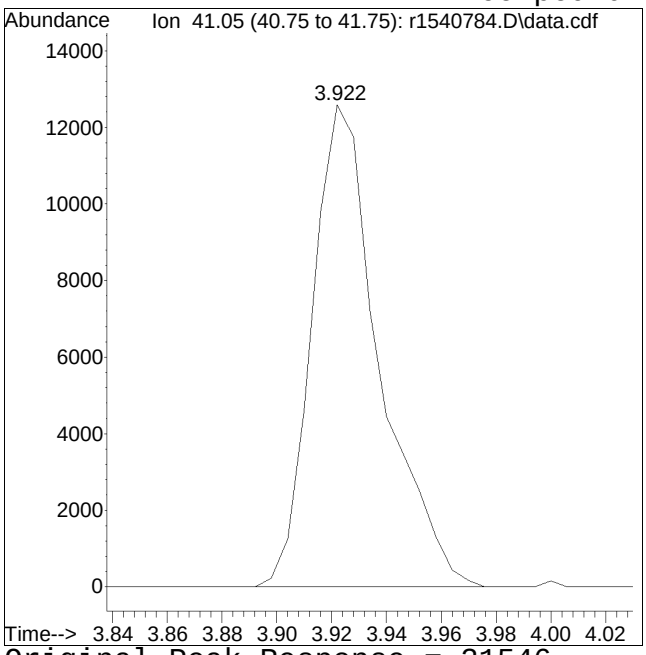


Manual Integration Report

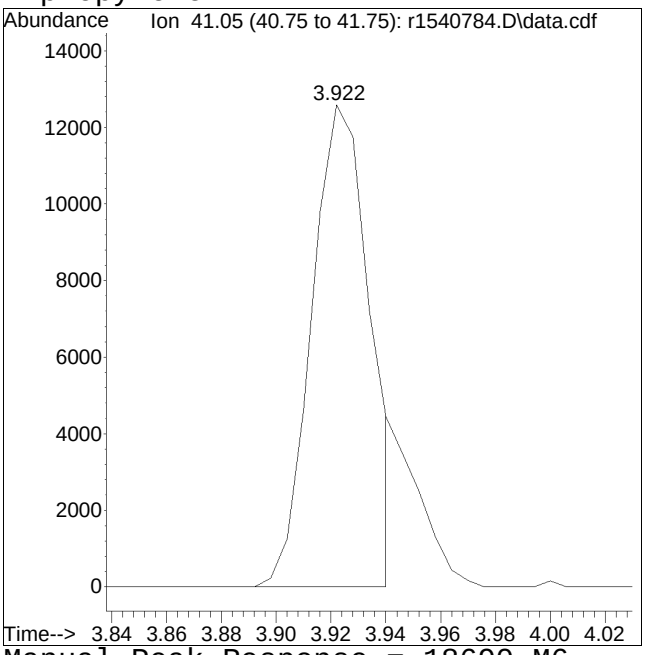
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540784.D
Date Inj'd : 11/20/2020 0:1: 3
Sample : ITO15-SIMSTD1.0

Method : TFS15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 9:59 am

Compound #3: propylene



Original Peak Response = 21546



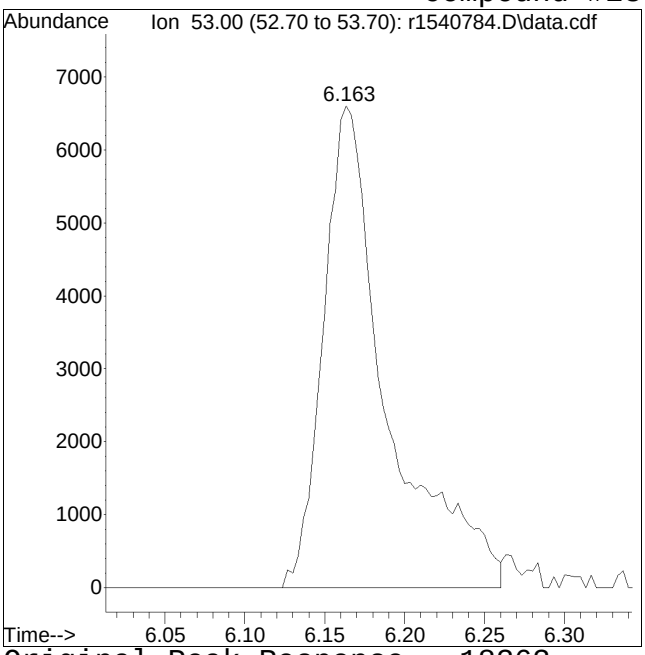
Manual Peak Response = 18690 M6

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

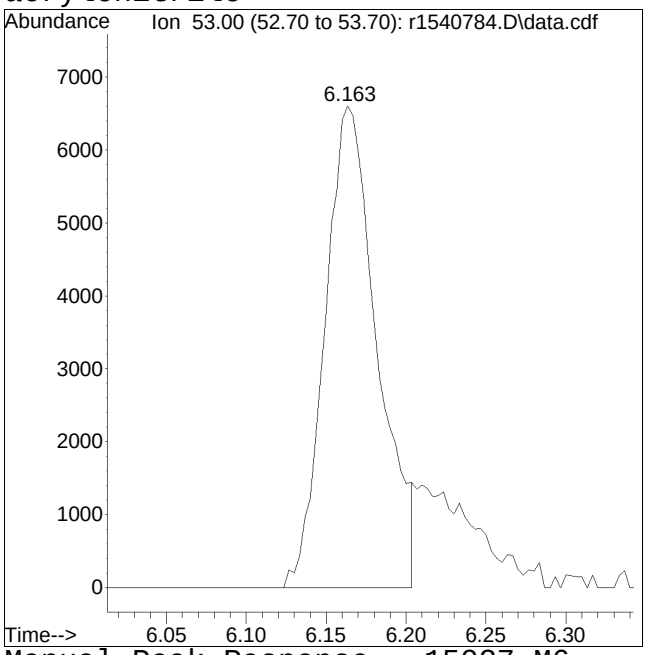
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540784.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 3 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/21/2023 9:59 am

Compound #23: acrylonitrile



Original Peak Response = 18363



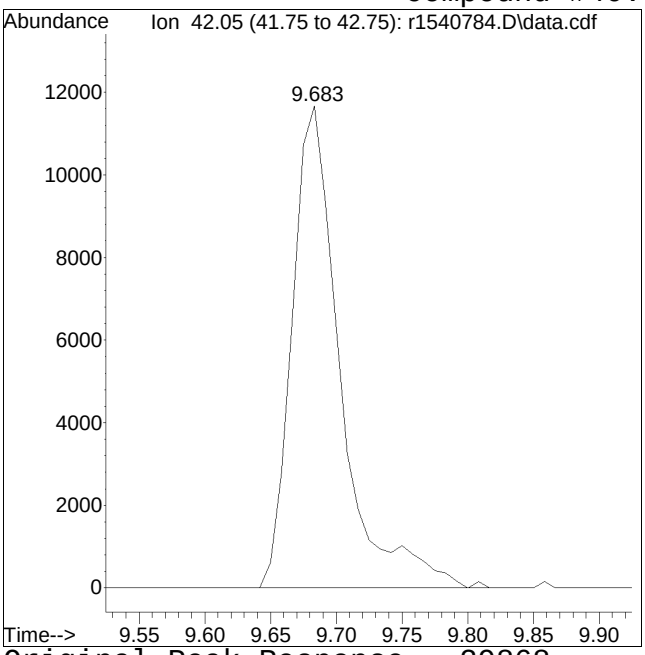
Manual Peak Response = 15027 M6

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

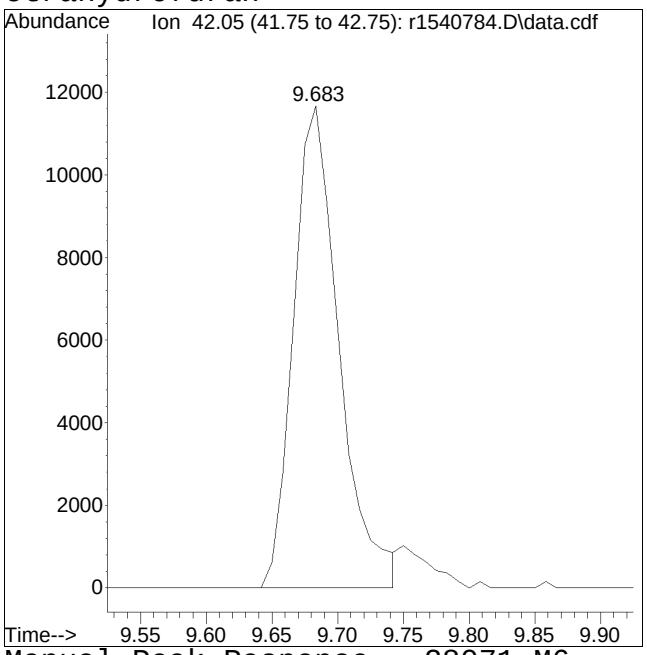
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540784.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 3 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/21/2023 9:59 am

Compound #40: Tetrahydrofuran



Original Peak Response = 29868



Manual Peak Response = 28071 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540785.D
Acq On : 20 Nov 2023 11:42 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.075	49	338160	10.000	ppbV	0.00
Standard Area = 345270			Recovery = 97.94%			
43) 1,4-difluorobenzene	11.293	114	961598	10.000	ppbV	0.00
Standard Area = 974868			Recovery = 98.64%			
67) chlorobenzene-D5	16.008	54	164993	10.000	ppbV	0.00
Standard Area = 166825			Recovery = 98.90%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.933	65	367099	9.050	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.50%			
69) toluene-D8	14.142	98	1153963	8.702	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.02%			
90) bromofluorobenzene	17.383	95	733414	8.486	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.86%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	166938	5.391	ppbV	99
3) propylene	3.922	41	85501M6	4.035	ppbV	
4) propane	3.946	29	125900	5.005	ppbV	98
5) dichlorodifluoromethane	3.994	85	207574	6.497	ppbV	98
6) chloromethane	4.156	50	76286	3.691	ppbV	100
7) Freon-114	4.264	85	204413	5.299	ppbV	96
8) methanol	4.330	31	210604	21.100	ppbV	97
9) vinyl chloride	4.390	62	109863	5.433	ppbV	99
10) 1,3-butadiene	4.528	54	73818	4.495	ppbV	97
11) butane	4.588	43	122405	3.345	ppbV	100
12) acetaldehyde	4.282	29	206111	17.449	ppbV	95
13) bromomethane	4.810	94	87987	5.757	ppbV	96
14) chloroethane	5.002	64	50476	5.147	ppbV	98
15) ethanol	5.134	31	364612	23.245	ppbV	98
16) dichlorofluoromethane	5.110	67	164048	4.764	ppbV	98
17) vinyl bromide	5.383	106	75601	5.028	ppbV	98
18) acrolein	5.510	56	40014	4.357	ppbV	99
19) acetone	5.647	43	468191	17.994	ppbV	99
20) acetonitrile	5.363	41	76150	3.714	ppbV	97
21) trichlorofluoromethane	5.837	101	149390	6.252	ppbV	99
22) isopropyl alcohol	5.930	45	284516	7.683	ppbV	100
23) acrylonitrile	6.160	53	92142	5.145	ppbV	97
24) pentane	6.233	43	204604	3.917	ppbV	99

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540785.D
Acq On : 20 Nov 2023 11:42 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.260	31	202588	5.281	ppbV	99
26) 1,1-dichloroethene	6.534	61	164257	5.186	ppbV	99
27) tertiary butyl alcohol	6.600	59	186946	4.811	ppbV	98
28) methylene chloride	6.678	49	134983	5.002	ppbV	99
29) 3-chloropropene	6.804	41	140040	3.722	ppbV	99
30) carbon disulfide	6.978	76	306606	5.584	ppbV	99
31) Freon 113	6.972	101	186295	5.205	ppbV	100
32) trans-1,2-dichloroethene	7.725	61	157671	5.072	ppbV	100
33) 1,1-dichloroethane	7.942	63	205335	4.957	ppbV	100
34) MTBE	8.017	73	248574	4.806	ppbV	99
35) vinyl acetate	8.125	43	190427	3.494	ppbV	99
36) 2-butanone	8.392	43	217898	3.827	ppbV	99
37) cis-1,2-dichloroethene	8.892	61	156978	5.197	ppbV	99
38) Ethyl Acetate	9.158	61	40786	5.070	ppbV	88
39) chloroform	9.225	83	214516	6.175	ppbV	97
40) Tetrahydrofuran	9.667	42	135504	3.790	ppbV	96
41) 2,2-dichloropropane	9.250	77	141860	5.332	ppbV	98
42) 1,2-dichloroethane	10.058	62	124964	5.362	ppbV	99
44) hexane	9.142	57	214929	4.706	ppbV	96
45) diisopropyl ether	9.133	87	109648	5.026	ppbV	98
46) tert-butyl ethyl ether	9.750	59	359617	4.392	ppbV	99
48) 1,1,1-trichloroethane	10.350	97	159409	4.866	ppbV	99
49) 1,1-dichloropropene	10.713	75	160013	4.469	ppbV	98
50) benzene	10.873	78	407060	4.881	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	11.047	117	154484	5.734	ppbV	99
53) cyclohexane	11.187	56	229875	4.727	ppbV	100
54) tert-amyl methyl ether	11.567	73	291912	4.088	ppbV	99
55) dibromomethane	11.787	93	112108	4.668	ppbV	98
56) 1,2-dichloropropane	11.820	63	141246	4.221	ppbV	99
57) bromodichloromethane	12.047	83	202202	5.554	ppbV	98
58) 1,4-dioxane	12.087	88	88842	4.841	ppbV	99
59) trichloroethene	12.100	130	155016	4.929	ppbV	99
60) 2,2,4-trimethylpentane	12.147	57	715188	4.781	ppbV	100
61) methyl methacrylate	12.333	41	132168	3.304	ppbV	100
62) heptane	12.460	43	236145	3.449	ppbV	98
63) cis-1,3-dichloropropene	13.108	75	193000	4.638	ppbV	100
64) 4-methyl-2-pentanone	13.150	43	267578	3.411	ppbV	99
65) trans-1,3-dichloropropene	13.733	75	154896	4.700	ppbV	98
66) 1,1,2-trichloroethane	13.933	97	140585	4.528	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540785.D
Acq On : 20 Nov 2023 11:42 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.250	91	465089	4.735	ppbV	100
70)	2-methylthiophene	0.000		0	N.D.	d	
71)	1,3-dichloropropane	14.275	76	207929	4.540	ppbV	99
72)	2-hexanone	14.533	43	242822	3.203	ppbV	98
73)	3-methylthiophene	0.000		0	N.D.	d	
74)	dibromochloromethane	14.692	129	177220	5.232	ppbV	100
75)	1,2-dibromoethane	14.942	107	213779	4.816	ppbV	97
76)	butyl acetate	15.183	73	50000	4.206	ppbV	94
77)	octane	15.275	85	181792	5.020	ppbV	98
78)	tetrachloroethene	15.400	166	187172	5.127	ppbV	98
79)	1,1,1,2-tetrachloroethane	16.033	131	146983	4.892	ppbV	96
80)	chlorobenzene	16.050	112	373103	5.038	ppbV	99
81)	ethylbenzene	16.400	91	602369	4.677	ppbV	98
82)	2-ethylthiophene	0.000		0	N.D.	d	
83)	m+p-xylene	16.567	91	972347	9.658	ppbV	99
84)	bromoform	16.633	173	154512	5.549	ppbV	98
85)	styrene	16.892	104	382021	4.799	ppbV	98
86)	1,1,2,2-tetrachloroethane	16.983	83	384073	5.093	ppbV	100
87)	o-xylene	16.983	91	493789	4.887	ppbV	98
88)	1,2,3-trichloropropane	17.100	75	264099	4.592	ppbV	99
89)	nonane	17.183	43	381158	3.627	ppbV	95
91)	isopropylbenzene	17.500	105	600787	4.781	ppbV	98
92)	bromobenzene	17.583	77	350714	4.733	ppbV	99
93)	2-chlorotoluene	17.908	126	176727	4.820	ppbV	97
94)	n-propylbenzene	17.942	120	214896	5.116	ppbV	96
95)	4-chlorotoluene	17.967	126	177510	4.849	ppbV	100
96)	4-ethyl toluene	18.058	105	636268	4.788	ppbV	98
97)	1,3,5-trimethylbenzene	18.125	105	648814	5.258	ppbV	99
98)	tert-butylbenzene	18.467	119	622016	5.393	ppbV	97
99)	1,2,4-trimethylbenzene	18.467	105	582781	5.172	ppbV	97
100)	decane	18.550	57	522583	4.605	ppbV	96
101)	Benzyl Chloride	18.592	91	314065	4.458	ppbV	99
102)	1,3-dichlorobenzene	18.600	146	398712	5.291	ppbV	99
103)	1,4-dichlorobenzene	18.658	146	389482	5.230	ppbV	99
104)	sec-butylbenzene	18.692	105	796394	4.926	ppbV	98
105)	1,2,3-trimethylbenzene	18.825	105	460126	4.928	ppbV	99
106)	p-isopropyltoluene	18.817	119	699492	5.600	ppbV	96
107)	1,2-dichlorobenzene	18.942	146	376697	5.169	ppbV	98
108)	n-butylbenzene	19.167	91	643535	4.833	ppbV	99
109)	indan	18.992	117	573587	5.120	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540785.D
Acq On : 20 Nov 2023 11:42 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

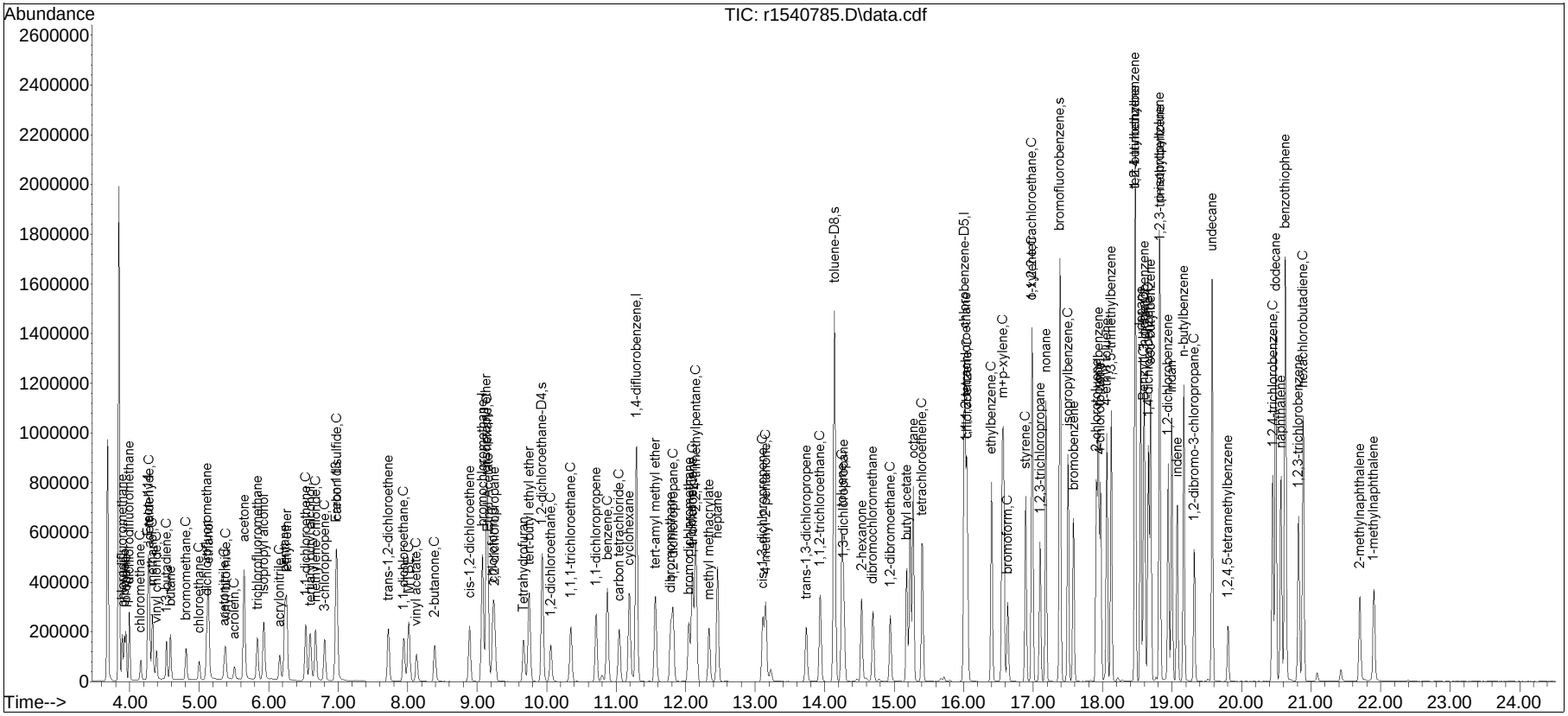
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.075	115	370169	4.904	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.317	75	132534	5.084	ppbV	93
112) undecane	19.575	57	590336	4.816	ppbV	98
113) 1,2,4,5-tetramethylben...	19.800	119	132373	6.424	ppbV	100
114) dodecane	20.492	57	564396	5.003	ppbV	98
115) 1,2,4-trichlorobenzene	20.450	180	290276	5.630	ppbV	95
116) naphthalene	20.567	128	737270	4.927	ppbV	99
117) 1,2,3-trichlorobenzene	20.817	180	241570	5.339	ppbV	99
118) benzothiophene	20.625	134	1505074	5.877	ppbV	99
119) hexachlorobutadiene	20.883	225	252119	6.069	ppbV	95
120) 2-methylnaphthalene	21.700	142	235100	4.691	ppbV	100
121) 1-methylnaphthalene	21.900	142	255522	5.242	ppbV	98

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

Sub List : Default - All compounds listed3\11\1120T_I\r1540786.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540785.D
Acq On : 20 Nov 2023 11:42 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

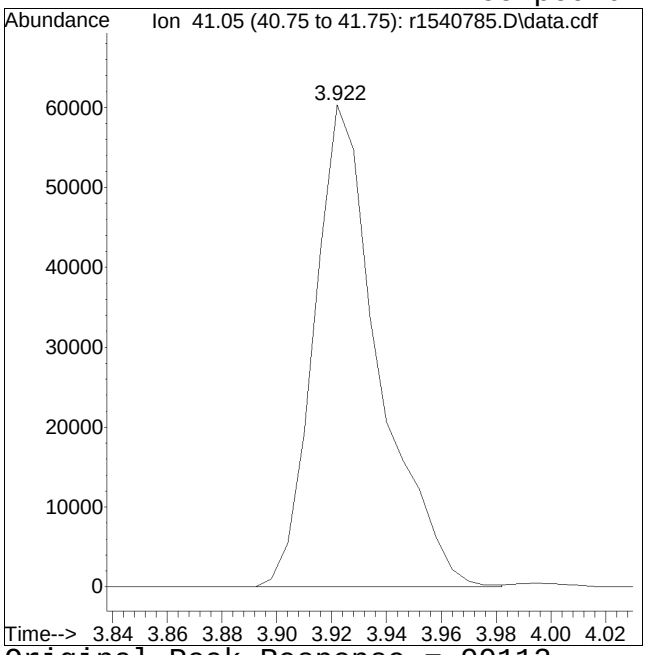


Manual Integration Report

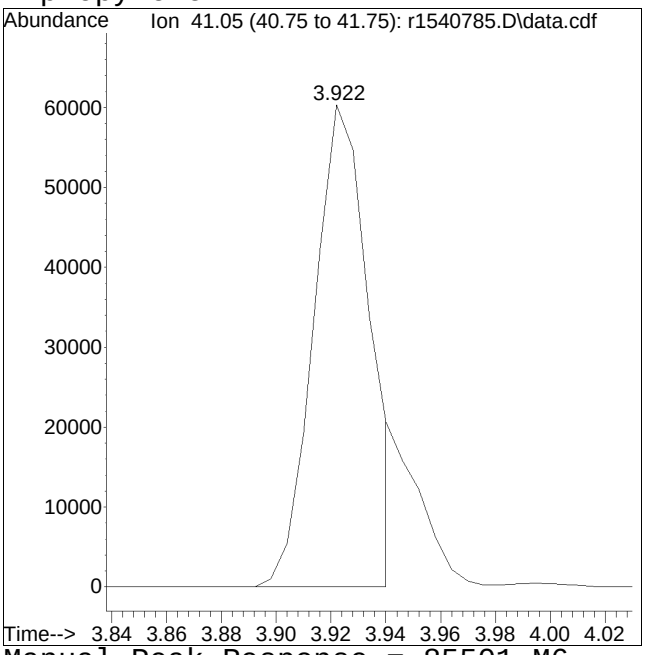
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540785.D
Date Inj'd : 11/20/2020 0:1: 2
Sample : ITO15-SIMSTD5.0

Method : TFS15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 9:59 am

Compound #3: propylene



Original Peak Response = 99112



Manual Peak Response = 85501 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540786.D
Acq On : 21 Nov 2023 12:23 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD010
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:51:05 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 14 15:20:09 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.075	49	345270	10.000	ppbV		-0.05
Standard Area = 345270			Recovery = 100.00%				
43) 1,4-difluorobenzene	11.293	114	974868	10.000	ppbV		-0.05
Standard Area = 974868			Recovery = 100.00%				
67) chlorobenzene-D5	16.008	54	166825	10.000	ppbV		-0.04
Standard Area = 166825			Recovery = 100.00%				
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	9.933	65	369875	8.833	ppbV		-0.05
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.33%				
69) toluene-D8	14.142	98	1186746	8.726	ppbV		-0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.26%				
90) bromofluorobenzene	17.392	95	778748	8.804	ppbV		-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.04%				
Target Compounds							Qvalue
2) chlorodifluoromethane	3.892	51	318645	10.159	ppbV		100
3) propylene	3.922	41	177148M6	7.884	ppbV		
4) propane	3.946	29	243068	9.435	ppbV	#	88
5) dichlorodifluoromethane	3.994	85	391937	12.414	ppbV		98
6) chloromethane	4.156	50	145177	6.601	ppbV		93
7) Freon-114	4.264	85	385332	9.770	ppbV	#	80
8) methanol	4.324	31	404271	38.189	ppbV		92
9) vinyl chloride	4.384	62	218231	10.668	ppbV		97
10) 1,3-butadiene	4.528	54	143279	8.409	ppbV		92
11) butane	4.588	43	242205	6.171	ppbV	#	88
12) acetaldehyde	4.282	29	385387	30.262	ppbV		98
13) bromomethane	4.810	94	174996	11.423	ppbV		100
14) chloroethane	5.002	64	103439	10.396	ppbV		97
15) ethanol	5.128	31	724196	44.186	ppbV	#	79
16) dichlorofluoromethane	5.110	67	327034	9.231	ppbV	#	96
17) vinyl bromide	5.380	106	152672	9.943	ppbV		100
18) acrolein	5.503	56	81039	8.493	ppbV	#	88
19) acetone	5.643	43	935810	33.920	ppbV	#	79
20) acetonitrile	5.363	41	151876	6.964	ppbV		95
21) trichlorofluoromethane	5.837	101	297580	12.609	ppbV		94
22) isopropyl alcohol	5.923	45	573951	14.440	ppbV	#	93
23) acrylonitrile	6.157	53	167008	9.088	ppbV		95
24) pentane	6.230	43	406837	7.374	ppbV	#	87

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540786.D
Acq On : 21 Nov 2023 12:23 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD010
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:51:05 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 14 15:20:09 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.257	31	405421	10.370	ppbV	#	89
26) 1,1-dichloroethene	6.534	61	332751	10.324	ppbV		99
27) tertiary butyl alcohol	6.588	59	396644	9.918	ppbV	#	89
28) methylene chloride	6.678	49	268472	9.714	ppbV		84
29) 3-chloropropene	6.804	41	288919	7.266	ppbV	#	89
30) carbon disulfide	6.978	76	619960	11.147	ppbV	#	92
31) Freon 113	6.972	101	373974	10.259	ppbV		86
32) trans-1,2-dichloroethene	7.725	61	323524	10.172	ppbV		98
33) 1,1-dichloroethane	7.942	63	415693	9.777	ppbV		99
34) MTBE	8.008	73	499251	9.419	ppbV		94
35) vinyl acetate	8.125	43	411235	7.163	ppbV	#	88
36) 2-butanone	8.383	43	440796	7.298	ppbV	#	87
37) cis-1,2-dichloroethene	8.892	61	319602	10.384	ppbV		98
38) Ethyl Acetate	9.158	61	82398	9.993	ppbV	#	10
39) chloroform	9.225	83	430887	12.516	ppbV	#	95
40) Tetrahydrofuran	9.667	42	274884	7.230	ppbV	#	83
41) 2,2-dichloropropane	9.250	77	288022	10.668	ppbV	#	84
42) 1,2-dichloroethane	10.058	62	251839	10.688	ppbV		95
44) hexane	9.142	57	436059	9.360	ppbV	#	50
45) diisopropyl ether	9.133	87	220713M3	9.987	ppbV		
46) tert-butyl ethyl ether	9.750	59	740178	8.776	ppbV		94
48) 1,1,1-trichloroethane	10.350	97	321967	9.630	ppbV		100
49) 1,1-dichloropropene	10.713	75	320139	8.695	ppbV	#	86
50) benzene	10.873	78	813136	9.602	ppbV		99
51) thiophene	0.000		0	N.D.	d		
52) carbon tetrachloride	11.047	117	316417	11.779	ppbV		98
53) cyclohexane	11.187	56	464886	9.394	ppbV	#	83
54) tert-amyl methyl ether	11.560	73	595140	8.042	ppbV	#	88
55) dibromomethane	11.787	93	228423	9.260	ppbV		96
56) 1,2-dichloropropane	11.820	63	288795	8.327	ppbV		96
57) bromodichloromethane	12.047	83	414640	11.356	ppbV		98
58) 1,4-dioxane	12.087	88	184170	9.899	ppbV		95
59) trichloroethene	12.100	130	317381	9.934	ppbV		98
60) 2,2,4-trimethylpentane	12.147	57	1449696	9.544	ppbV	#	86
61) methyl methacrylate	12.333	41	273498	6.386	ppbV	#	81
62) heptane	12.460	43	471924	6.533	ppbV	#	76
63) cis-1,3-dichloropropene	13.108	75	398176	9.339	ppbV	#	88
64) 4-methyl-2-pentanone	13.150	43	546137	6.537	ppbV	#	77
65) trans-1,3-dichloropropene	13.733	75	321792	9.544	ppbV	#	89
66) 1,1,2-trichloroethane	13.933	97	288216	9.051	ppbV		89

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540786.D
Acq On : 21 Nov 2023 12:23 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD010
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:51:05 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 14 15:20:09 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.250	91	952601	9.543	ppbV		100
70) 2-methylthiophene	0.000		0	N.D.	d		
71) 1,3-dichloropropane	14.275	76	414800	8.857	ppbV	#	76
72) 2-hexanone	14.525	43	502685	6.268	ppbV	#	73
73) 3-methylthiophene	0.000		0	N.D.	d		
74) dibromochloromethane	14.692	129	378832	11.116	ppbV		100
75) 1,2-dibromoethane	14.942	107	428458	9.475	ppbV		99
76) butyl acetate	15.175	73	103596	8.409	ppbV	#	53
77) octane	15.275	85	367413	10.063	ppbV	#	59
78) tetrachloroethene	15.400	166	380093	10.350	ppbV		94
79) 1,1,1,2-tetrachloroethane	16.033	131	300992	9.837	ppbV		96
80) chlorobenzene	16.050	112	754276	10.086	ppbV		97
81) ethylbenzene	16.400	91	1239579	9.448	ppbV		96
82) 2-ethylthiophene	0.000		0	N.D.	d		
83) m+p-xylene	16.567	91	1982685	19.336	ppbV		94
84) bromoform	16.633	173	335969	12.080	ppbV		97
85) styrene	16.892	104	787823	9.753	ppbV		99
86) 1,1,2,2-tetrachloroethane	16.983	83	780810	10.253	ppbV		99
87) o-xylene	16.992	91	1014172	9.882	ppbV		98
88) 1,2,3-trichloropropane	17.100	75	531682	9.039	ppbV	#	91
89) nonane	17.183	43	760502	6.869	ppbV	#	69
91) isopropylbenzene	17.500	105	1203225	9.387	ppbV		96
92) bromobenzene	17.583	77	708238	9.383	ppbV		98
93) 2-chlorotoluene	17.908	126	369412M3	9.908	ppbV		
94) n-propylbenzene	17.942	120	441187	10.433	ppbV		78
95) 4-chlorotoluene	17.967	126	370570	10.007	ppbV		93
96) 4-ethyl toluene	18.058	105	1291502	9.580	ppbV		97
97) 1,3,5-trimethylbenzene	18.125	105	1312132	10.483	ppbV		95
98) tert-butylbenzene	18.467	119	1231406	10.607	ppbV		99
99) 1,2,4-trimethylbenzene	18.467	105	1184785	10.399	ppbV		96
100) decane	18.550	57	1080886	9.328	ppbV	#	75
101) Benzyl Chloride	18.592	91	718525	9.983	ppbV		98
102) 1,3-dichlorobenzene	18.600	146	803033M3	10.586	ppbV		
103) 1,4-dichlorobenzene	18.658	146	791353	10.549	ppbV		97
104) sec-butylbenzene	18.692	105	1604071	9.768	ppbV		97
105) 1,2,3-trimethylbenzene	18.825	105	858761	8.915	ppbV		89
106) p-isopropyltoluene	18.817	119	1260530	9.891	ppbV		99
107) 1,2-dichlorobenzene	18.942	146	774513	10.551	ppbV		97
108) n-butylbenzene	19.167	91	1353780	9.996	ppbV		98
109) indan	18.992	117	1166923	10.340	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540786.D
Acq On : 21 Nov 2023 12:23 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD010
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:51:05 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 14 15:20:09 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

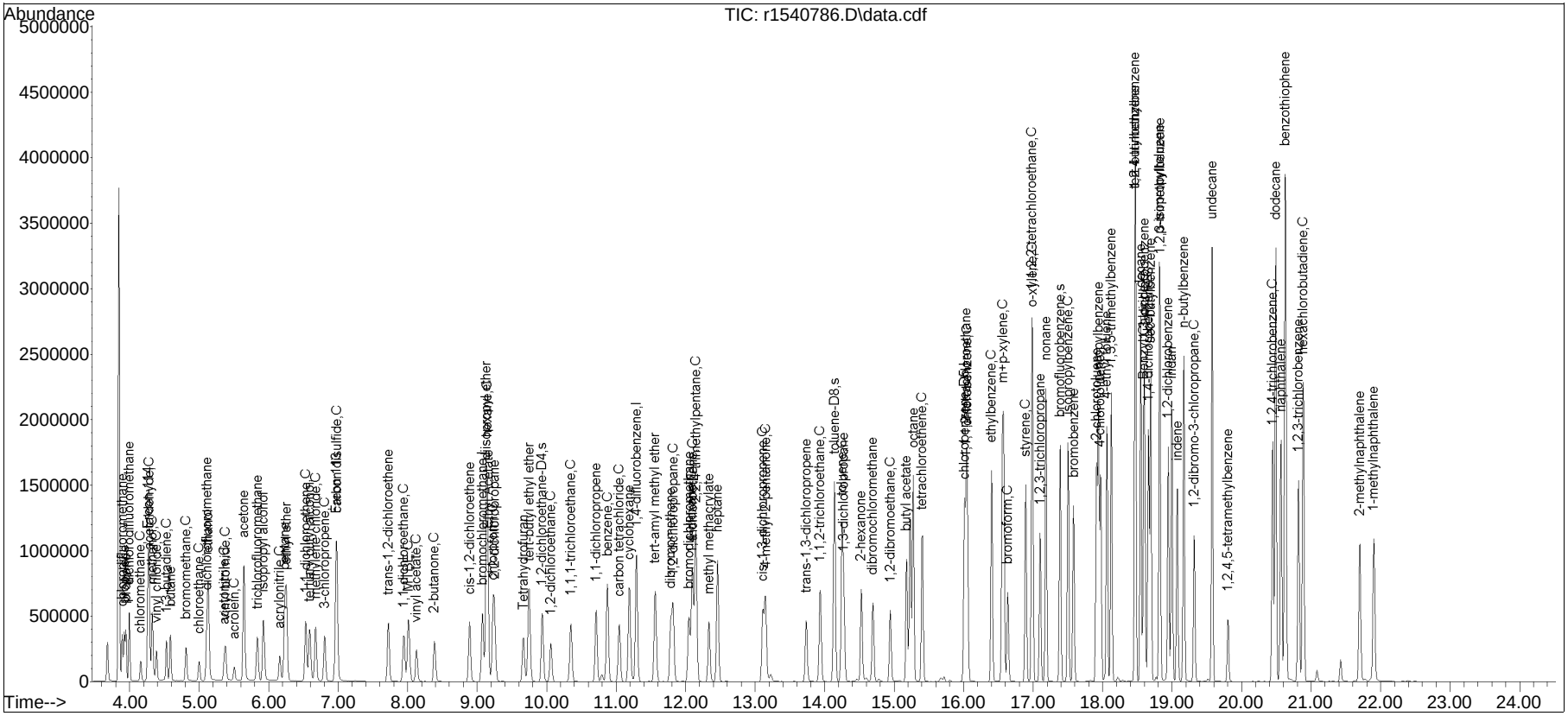
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.075	115	754519	9.891	ppbV		98
111) 1,2-dibromo-3-chloropr...	19.317	75	275022	10.352	ppbV	#	80
112) undecane	19.575	57	1241883	9.957	ppbV	#	79
113) 1,2,4,5-tetramethylben...	19.800	119	279280	14.053	ppbV		99
114) dodecane	20.492	57	1302367	11.329	ppbV	#	72
115) 1,2,4-trichlorobenzene	20.442	180	677661	13.282	ppbV		95
116) naphthalene	20.567	128	1682437	11.177	ppbV		98
117) 1,2,3-trichlorobenzene	20.817	180	569774	12.662	ppbV		95
118) benzothiophene	20.625	134	3492369	13.840	ppbV	#	97
119) hexachlorobutadiene	20.883	225	559414	13.777	ppbV		96
120) 2-methylnaphthalene	21.700	142	681123	13.790	ppbV		92
121) 1-methylnaphthalene	21.900	142	733280	15.720	ppbV		98

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

Sub List : Default - All compounds listed3\11\1120T_I\r1540786.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540786.D
Acq On : 21 Nov 2023 12:23 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD010
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:51:05 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 14 15:20:09 2023
Response via : Initial Calibration

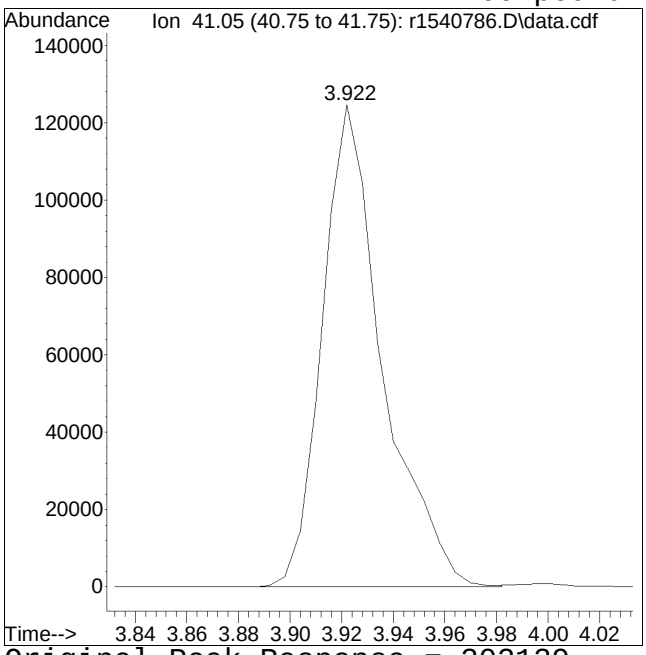


Manual Integration Report

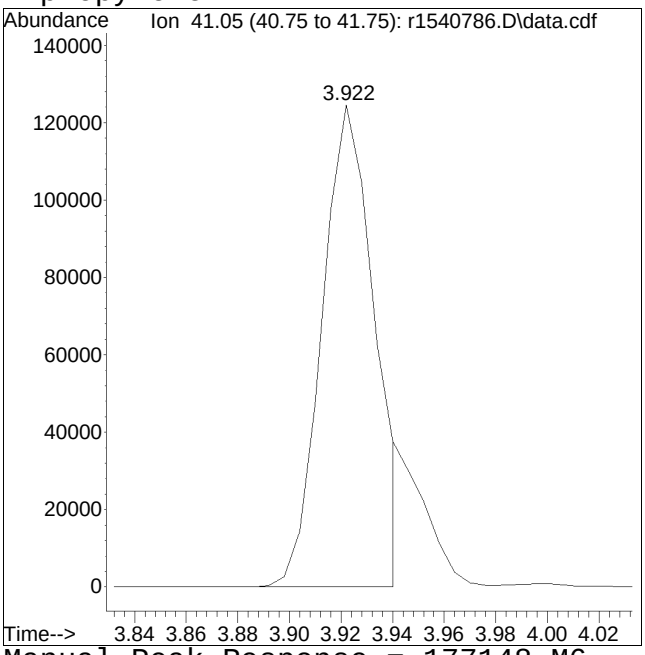
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540786.D
Date Inj'd : 11/21/2020 0:2: 3
Sample : ITO15-SIMSTD010

Method : TFS15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 9:51 am

Compound #3: propylene



Original Peak Response = 202139



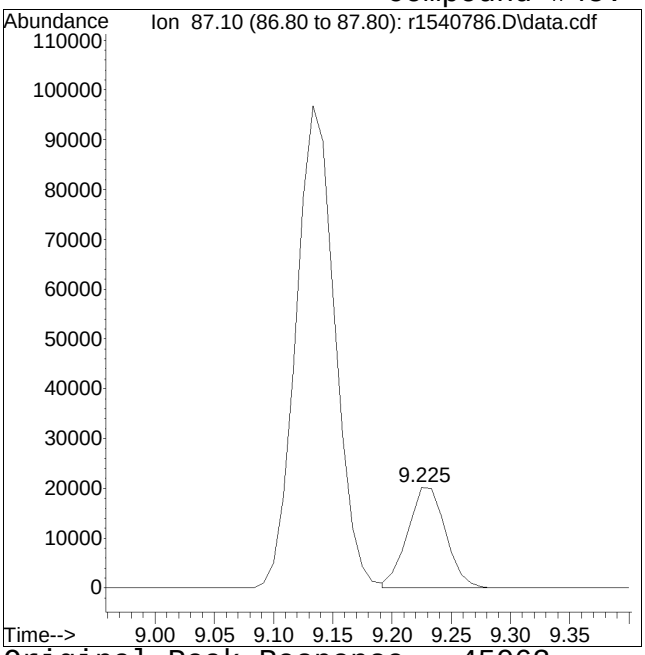
Manual Peak Response = 177148 M6

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

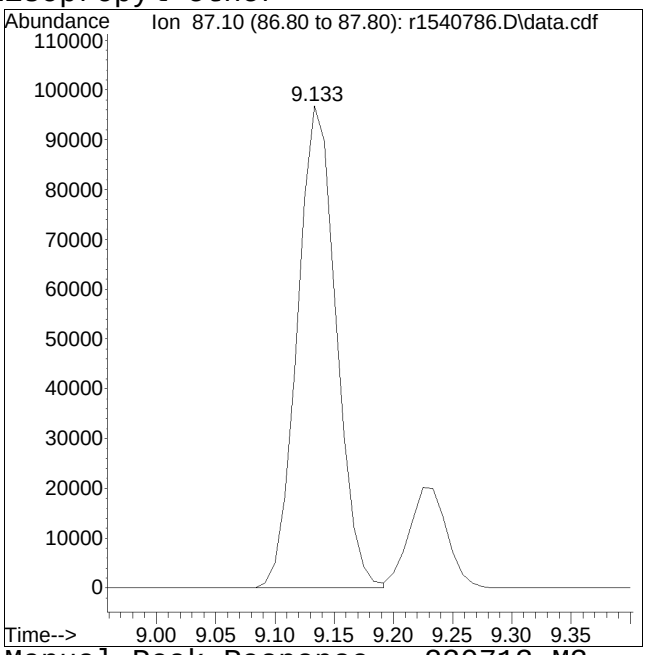
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540786.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:2: 3 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/21/2023 9:51 am

Compound #45: diisopropyl ether



Original Peak Response = 45063



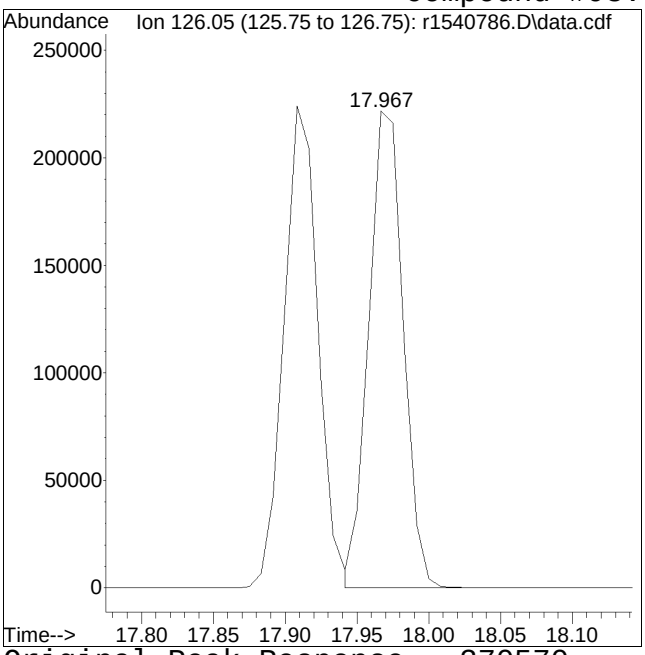
Manual Peak Response = 220713 M3

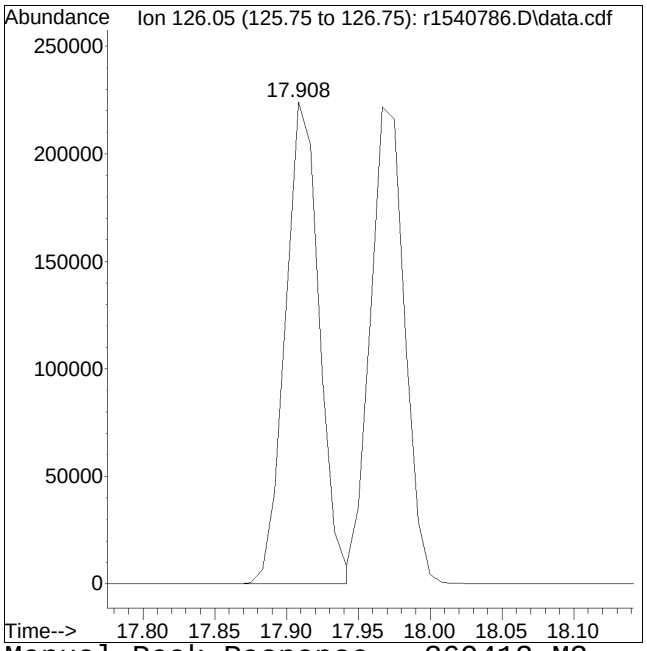
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540786.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:2: 3 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/21/2023 9:51 am

Compound #93: 2-chlorotoluene





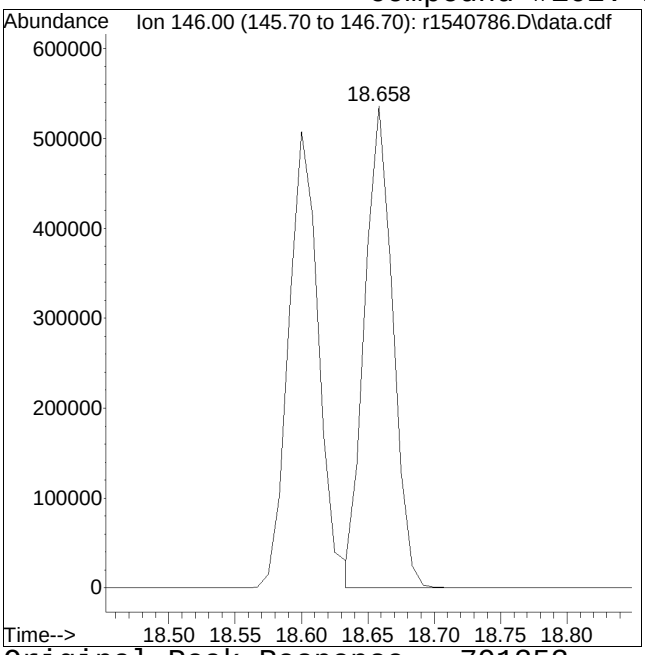
Original Peak Response = 370570 Manual Peak Response = 369412 M3

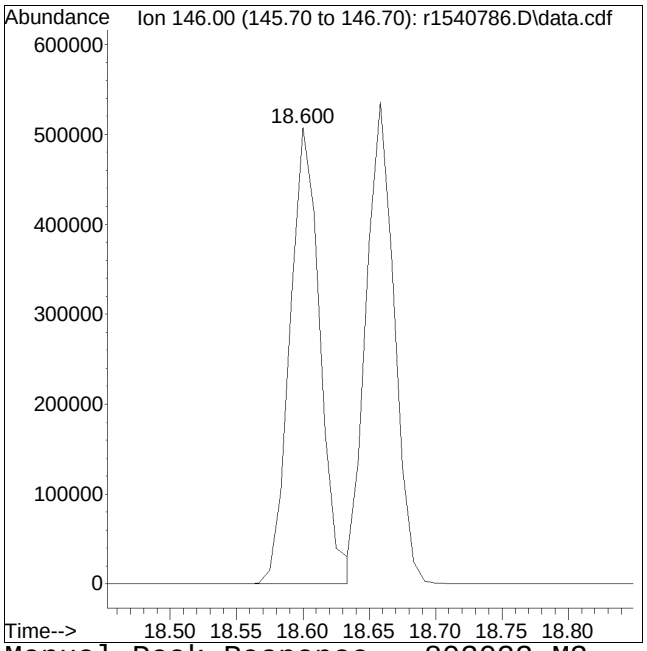
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1540786.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:2: 3 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/21/2023 9:51 am

Compound #102: 1,3-dichlorobenzene





Original Peak Response = 791353 Manual Peak Response = 803033 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540787.D
Acq On : 21 Nov 2023 1:00 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD020
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:52 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.075	49	344030	10.000	ppbV	0.00
Standard Area = 345270			Recovery = 99.64%			
43) 1,4-difluorobenzene	11.293	114	985899	10.000	ppbV	0.00
Standard Area = 974868			Recovery = 101.13%			
67) chlorobenzene-D5	16.008	54	165928	10.000	ppbV	0.00
Standard Area = 166825			Recovery = 99.46%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.942	65	366803	8.820	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.20%			
69) toluene-D8	14.142	98	1225720	9.191	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.91%			
90) bromofluorobenzene	17.383	95	824945	9.492	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.92%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	615789	19.546	ppbV	99
3) propylene	3.922	41	365899M6	16.975	ppbV	
4) propane	3.946	29	438378	17.129	ppbV	97
5) dichlorodifluoromethane	3.994	85	690627	21.246	ppbV	98
6) chloromethane	4.156	50	256119	12.180	ppbV	99
7) Freon-114	4.264	85	672446	17.135	ppbV	99
8) methanol	4.324	31	705402	69.468	ppbV	99
9) vinyl chloride	4.384	62	409637	19.911	ppbV	98
10) 1,3-butadiene	4.528	54	261689	15.662	ppbV	89
11) butane	4.582	43	473111	12.706	ppbV	98
12) acetaldehyde	4.282	29	670367	55.783	ppbV	90
13) bromomethane	4.810	94	323937	20.832	ppbV	99
14) chloroethane	4.996	64	197724	19.819	ppbV	99
15) ethanol	5.128	31	1256394	78.732	ppbV	95
16) dichlorofluoromethane	5.110	67	640521	18.282	ppbV	100
17) vinyl bromide	5.380	106	311335	20.351	ppbV	95
18) acrolein	5.503	56	154465	16.531	ppbV	97
19) acetone	5.640	43	1797659	67.912	ppbV	99
20) acetonitrile	5.360	41	333033	15.966	ppbV	96
21) trichlorofluoromethane	5.837	101	551238	22.676	ppbV	98
22) isopropyl alcohol	5.923	45	1151090	30.553	ppbV	100
23) acrylonitrile	6.160	53	335471	18.413	ppbV	98
24) pentane	6.230	43	814509	15.326	ppbV	99

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540787.D
Acq On : 21 Nov 2023 1:00 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD020
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:52 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.257	31	804059	20.602	ppbV	99
26) 1,1-dichloroethene	6.534	61	648908	20.137	ppbV	99
27) tertiary butyl alcohol	6.582	59	860716	21.772	ppbV	97
28) methylene chloride	6.678	49	502502	18.304	ppbV	96
29) 3-chloropropene	6.804	41	584564	15.270	ppbV	98
30) carbon disulfide	6.978	76	1252033	22.412	ppbV	98
31) Freon 113	6.972	101	729147	20.023	ppbV	98
32) trans-1,2-dichloroethene	7.725	61	669952	21.185	ppbV	99
33) 1,1-dichloroethane	7.950	63	810916	19.241	ppbV	99
34) MTBE	8.008	73	1004701	19.095	ppbV	98
35) vinyl acetate	8.125	43	870918	15.705	ppbV	99
36) 2-butanone	8.383	43	889455	15.354	ppbV	100
37) cis-1,2-dichloroethene	8.892	61	632240	20.573	ppbV	98
38) Ethyl Acetate	9.158	61	173199	21.162	ppbV	94
39) chloroform	9.233	83	811653	22.967	ppbV	98
40) Tetrahydrofuran	9.658	42	563263	15.487	ppbV	99
41) 2,2-dichloropropane	9.250	77	571753	21.122	ppbV	98
42) 1,2-dichloroethane	10.058	62	476731	20.107	ppbV	99
44) hexane	9.142	57	879097	18.772	ppbV	96
45) diisopropyl ether	9.133	87	450983	20.163	ppbV	89
46) tert-butyl ethyl ether	9.750	59	1495381	17.811	ppbV	99
48) 1,1,1-trichloroethane	10.350	97	631293	18.795	ppbV	98
49) 1,1-dichloropropene	10.713	75	637372	17.361	ppbV	99
50) benzene	10.873	78	1557727	18.217	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	11.047	117	606153	21.942	ppbV	99
53) cyclohexane	11.193	56	951797	19.091	ppbV	99
54) tert-amyl methyl ether	11.560	73	1201767	16.415	ppbV	99
55) dibromomethane	11.787	93	468022	19.008	ppbV	99
56) 1,2-dichloropropane	11.820	63	570940	16.640	ppbV	98
57) bromodichloromethane	12.047	83	829016	22.211	ppbV	96
58) 1,4-dioxane	12.080	88	384888	20.455	ppbV	100
59) trichloroethene	12.100	130	617911	19.162	ppbV	98
60) 2,2,4-trimethylpentane	12.147	57	2939732	19.169	ppbV	99
61) methyl methacrylate	12.333	41	561809	13.697	ppbV	98
62) heptane	12.460	43	938949	13.377	ppbV	97
63) cis-1,3-dichloropropene	13.108	75	773490	18.130	ppbV	99
64) 4-methyl-2-pentanone	13.150	43	1086757	13.512	ppbV	99
65) trans-1,3-dichloropropene	13.733	75	626029	18.529	ppbV	99
66) 1,1,2-trichloroethane	13.933	97	568969	17.875	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540787.D
Acq On : 21 Nov 2023 1:00 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD020
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:52 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	1856534	18.794	ppbV	97
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	14.275	76	808165	17.548	ppbV	99
72) 2-hexanone	14.525	43	1014366	13.306	ppbV	97
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	14.692	129	787922	23.132	ppbV	98
75) 1,2-dibromoethane	14.942	107	825707	18.496	ppbV	97
76) butyl acetate	15.175	73	206951	17.310	ppbV	98
77) octane	15.275	85	741899	20.372	ppbV	96
78) tetrachloroethene	15.408	166	742545	20.227	ppbV	96
79) 1,1,1,2-tetrachloroethane	16.033	131	627387	20.765	ppbV	93
80) chlorobenzene	16.050	112	1430580	19.208	ppbV	99
81) ethylbenzene	16.400	91	2428856	18.753	ppbV	98
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	16.567	91	3854278	38.066	ppbV	99
84) bromoform	16.633	173	729041	26.034	ppbV	98
85) styrene	16.892	104	1543897	19.287	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.983	83	1472999	19.424	ppbV	100
87) o-xylene	16.983	91	1951911	19.207	ppbV	99
88) 1,2,3-trichloropropane	17.100	75	1045717	18.078	ppbV	99
89) nonane	17.183	43	1480925	14.014	ppbV	98
91) isopropylbenzene	17.500	105	2416331	19.119	ppbV	99
92) bromobenzene	17.583	77	1385697	18.596	ppbV	99
93) 2-chlorotoluene	17.908	126	761470	20.650	ppbV	97
94) n-propylbenzene	17.942	120	887877	21.019	ppbV	97
95) 4-chlorotoluene	17.967	126	758425	20.602	ppbV	94
96) 4-ethyl toluene	18.058	105	2566865	19.208	ppbV	98
97) 1,3,5-trimethylbenzene	18.125	105	2194990	17.687	ppbV	96
98) tert-butylbenzene	18.467	119	2380441	20.523	ppbV	98
99) 1,2,4-trimethylbenzene	18.467	105	2176621	19.208	ppbV	98
100) decane	18.550	57	2117726	18.557	ppbV	99
101) Benzyl Chloride	18.592	91	1552462	21.911	ppbV	98
102) 1,3-dichlorobenzene	18.600	146	1536404	20.273	ppbV	99
103) 1,4-dichlorobenzene	18.658	146	1529769	20.425	ppbV	98
104) sec-butylbenzene	18.692	105	3128647	19.244	ppbV	98
105) 1,2,3-trimethylbenzene	18.825	105	1857341	19.780	ppbV	99
106) p-isopropyltoluene	18.817	119	2693368	21.442	ppbV	97
107) 1,2-dichlorobenzene	18.942	146	1460401	19.927	ppbV	98
108) n-butylbenzene	19.167	91	2655326	19.831	ppbV	97
109) indan	18.992	117	2329393	20.675	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540787.D
Acq On : 21 Nov 2023 1:00 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD020
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:52 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

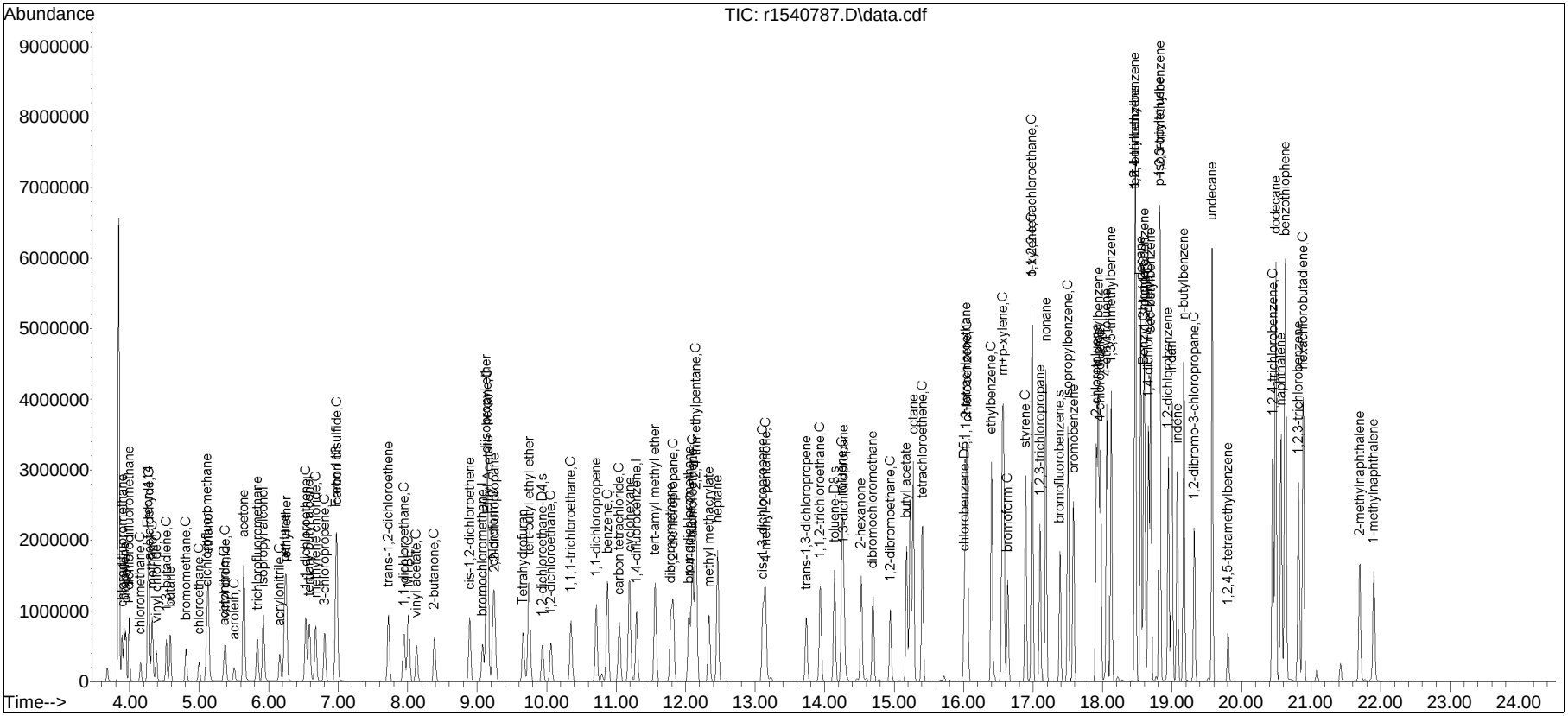
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.075	115	1536863	20.246	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.317	75	538793	20.552	ppbV	96
112) undecane	19.575	57	2365333	19.187	ppbV	99
113) 1,2,4,5-tetramethylben...	19.800	119	410868	19.827	ppbV	98
114) dodecane	20.492	57	2340283	20.627	ppbV	99
115) 1,2,4-trichlorobenzene	20.450	180	1245159	24.013	ppbV	97
116) naphthalene	20.567	128	3229944	21.462	ppbV	100
117) 1,2,3-trichlorobenzene	20.817	180	1088135	23.914	ppbV	98
118) benzothiophene	20.625	134	5581300	21.671	ppbV	100
119) hexachlorobutadiene	20.883	225	976621	23.377	ppbV	98
120) 2-methylnaphthalene	21.700	142	1105388	21.930	ppbV	97
121) 1-methylnaphthalene	21.900	142	1044543	21.306	ppbV	98

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

Sub List : Default - All compounds listed3\11\1120T_I\r1540786.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540787.D
Acq On : 21 Nov 2023 1:00 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD020
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 09:59:52 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

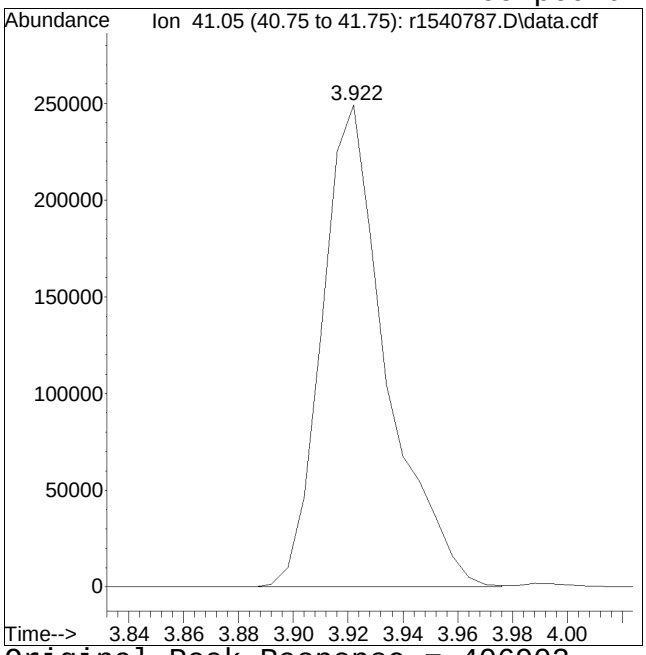


Manual Integration Report

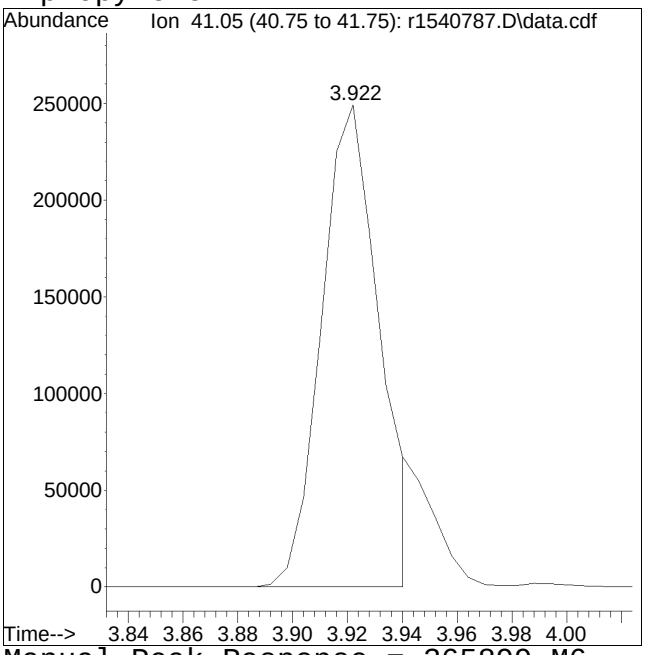
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540787.D
Date Inj'd : 11/21/2020 0:1: 0
Sample : ITO15-SIMSTD020

Method : TFS15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 9:59 am

Compound #3: propylene



Original Peak Response = 406902



Manual Peak Response = 365899 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540788.D
Acq On : 21 Nov 2023 1:39 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD050
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:12 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.083	49	331168	10.000	ppbV	# 0.00
Standard Area = 345270			Recovery = 95.92%			
43) 1,4-difluorobenzene	11.293	114	1002724	10.000	ppbV	0.00
Standard Area = 974868			Recovery = 102.86%			
67) chlorobenzene-D5	16.008	54	153230	10.000	ppbV	0.00
Standard Area = 166825			Recovery = 91.85%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.942	65	361381	8.544	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.44%			
69) toluene-D8	14.142	98	1307764	10.618	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.18%			
90) bromofluorobenzene	17.392	95	875209	10.904	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.04%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	1388375	45.780	ppbV	97
3) propylene	3.922	41	874282M6	42.134	ppbV	
4) propane	3.946	29	987946	40.102	ppbV	92
5) dichlorodifluoromethane	3.994	85	1597182	51.044	ppbV	99
6) chloromethane	4.162	50	594766	29.383	ppbV	99
7) Freon-114	4.264	85	1444701	38.244	ppbV	98
8) methanol	4.330	31	1533672	156.903	ppbV	97
9) vinyl chloride	4.390	62	940117	47.471	ppbV	96
10) 1,3-butadiene	4.528	54	576041	35.814	ppbV #	78
11) butane	4.588	43	1150713	32.105	ppbV	97
12) acetaldehyde	4.282	29	1336259	115.512	ppbV #	74
13) bromomethane	4.810	94	733065	48.975	ppbV	97
14) chloroethane	5.002	64	472827	49.235	ppbV	98
15) ethanol	5.140	31	2565387	167.004	ppbV	87
16) dichlorofluoromethane	5.110	67	1514720	44.912	ppbV	99
17) vinyl bromide	5.383	106	760019	51.611	ppbV	97
18) acrolein	5.507	56	350980	39.022	ppbV	98
19) acetone	5.643	43	4177465	163.947	ppbV	92
20) acetonitrile	5.367	41	754112	37.558	ppbV	97
21) trichlorofluoromethane	5.840	101	1262473	53.951	ppbV	98
22) isopropyl alcohol	5.930	45	2721570	75.044	ppbV	99
23) acrylonitrile	6.163	53	963139	54.918	ppbV	100
24) pentane	6.233	43	1969333	38.494	ppbV	99

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540788.D
Acq On : 21 Nov 2023 1:39 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD050
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:12 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.257	31	1817286	48.371	ppbV		94
26) 1,1-dichloroethene	6.534	61	1607453	51.821	ppbV		94
27) tertiary butyl alcohol	6.588	59	2160059	56.761	ppbV		95
28) methylene chloride	6.678	49	1157685	43.808	ppbV		88
29) 3-chloropropene	6.810	41	1476005	40.053	ppbV		98
30) carbon disulfide	6.978	76	2942826	54.725	ppbV		97
31) Freon 113	6.978	101	1839658	52.480	ppbV		93
32) trans-1,2-dichloroethene	7.725	61	1688597	55.471	ppbV		95
33) 1,1-dichloroethane	7.950	63	2065904	50.922	ppbV		99
34) MTBE	8.008	73	2423438	47.847	ppbV		97
35) vinyl acetate	8.133	43	2206756	41.340	ppbV		99
36) 2-butanone	8.383	43	2190032	39.274	ppbV		99
37) cis-1,2-dichloroethene	8.892	61	1592213	53.822	ppbV		92
38) Ethyl Acetate	9.158	61	440351	55.894	ppbV		80
39) chloroform	9.233	83	1814326	53.333	ppbV		98
40) Tetrahydrofuran	9.658	42	1405554	40.146	ppbV		98
41) 2,2-dichloropropane	9.258	77	1298354	49.827	ppbV		97
42) 1,2-dichloroethane	10.067	62	1128055	49.425	ppbV		96
44) hexane	9.142	57	2038584	42.801	ppbV		88
45) diisopropyl ether	9.133	87	1068594	46.975	ppbV		80
46) tert-butyl ethyl ether	9.750	59	3670499	42.985	ppbV		98
48) 1,1,1-trichloroethane	10.350	97	1544636	45.216	ppbV		96
49) 1,1-dichloropropene	10.713	75	1506117	40.336	ppbV		96
50) benzene	10.880	78	3672194	42.225	ppbV		97
51) thiophene	0.000		0	N.D.	d		
52) carbon tetrachloride	11.047	117	1387329	49.377	ppbV		99
53) cyclohexane	11.193	56	2288856	45.139	ppbV		99
54) tert-amyl methyl ether	11.560	73	2936099	39.432	ppbV		98
55) dibromomethane	11.787	93	1169404	46.696	ppbV		95
56) 1,2-dichloropropane	11.820	63	1468209	42.073	ppbV		96
57) bromodichloromethane	12.047	83	1896086	49.947	ppbV		97
58) 1,4-dioxane	12.080	88	950495	49.668	ppbV		99
59) trichloroethene	12.100	130	1607772	49.022	ppbV		99
60) 2,2,4-trimethylpentane	12.147	57	6770882	43.409	ppbV	#	98
61) methyl methacrylate	12.340	41	1388045	33.272	ppbV		94
62) heptane	12.460	43	2230872	31.250	ppbV		96
63) cis-1,3-dichloropropene	13.117	75	1843974	42.496	ppbV		99
64) 4-methyl-2-pentanone	13.150	43	2604106	31.835	ppbV		95
65) trans-1,3-dichloropropene	13.733	75	1505703	43.818	ppbV		99
66) 1,1,2-trichloroethane	13.942	97	1487863	45.960	ppbV		90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540788.D
Acq On : 21 Nov 2023 1:39 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD050
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:12 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.250	91	4559312	49.981	ppbV		97
70) 2-methylthiophene	0.000		0	N.D.	d		
71) 1,3-dichloropropane	14.283	76	1899270	44.657	ppbV		97
72) 2-hexanone	14.525	43	2467472	35.050	ppbV		94
73) 3-methylthiophene	0.000		0	N.D.	d		
74) dibromochloromethane	14.700	129	1940709	61.697	ppbV		98
75) 1,2-dibromoethane	14.950	107	2073137	50.288	ppbV		95
76) butyl acetate	15.175	73	521194	47.206	ppbV		90
77) octane	15.275	85	1742999	51.827	ppbV		95
78) tetrachloroethene	15.408	166	1803684	53.203	ppbV		99
79) 1,1,1,2-tetrachloroethane	16.033	131	1498380	53.701	ppbV		95
80) chlorobenzene	16.058	112	3420224	49.727	ppbV		97
81) ethylbenzene	16.400	91	5954234	49.781	ppbV		100
82) 2-ethylthiophene	0.000		0	N.D.	d		
83) m+p-xylene	16.575	91	9110919	97.439	ppbV		99
84) bromoform	16.642	173	1792646	69.321	ppbV		97
85) styrene	16.892	104	3784360	51.194	ppbV		96
86) 1,1,2,2-tetrachloroethane	16.983	83	3169307	45.256	ppbV		100
87) o-xylene	16.992	91	4362798	46.489	ppbV		96
88) 1,2,3-trichloropropane	17.100	75	2428747	45.467	ppbV		98
89) nonane	17.183	43	3365869	34.492	ppbV	#	95
91) isopropylbenzene	17.500	105	5736181	49.149	ppbV		99
92) bromobenzene	17.583	77	3184903	46.282	ppbV		85
93) 2-chlorotoluene	17.908	126	1851488	54.369	ppbV		86
94) n-propylbenzene	17.942	120	2091233	53.610	ppbV		94
95) 4-chlorotoluene	17.975	126	1856089	54.598	ppbV		93
96) 4-ethyl toluene	18.067	105	6209747	50.319	ppbV		99
97) 1,3,5-trimethylbenzene	18.125	105	5852196	51.064	ppbV		97
98) tert-butylbenzene	18.475	119	5061003	47.249	ppbV		97
99) 1,2,4-trimethylbenzene	18.475	105	4778393	45.663	ppbV		93
100) decane	18.550	57	4752180	45.092	ppbV	#	99
101) Benzyl Chloride	18.592	91	3938975	60.202	ppbV		95
102) 1,3-dichlorobenzene	18.608	146	3712691	53.050	ppbV		96
103) 1,4-dichlorobenzene	18.658	146	3729101	53.916	ppbV		96
104) sec-butylbenzene	18.692	105	7403527	49.312	ppbV		96
105) 1,2,3-trimethylbenzene	18.825	105	4005990	46.197	ppbV		100
106) p-isopropyltoluene	18.825	119	5695596	49.100	ppbV		99
107) 1,2-dichlorobenzene	18.950	146	3487017	51.523	ppbV		97
108) n-butylbenzene	19.175	91	6160336	49.821	ppbV		93
109) indan	19.000	117	5307632	51.012	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540788.D
Acq On : 21 Nov 2023 1:39 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD050
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:12 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

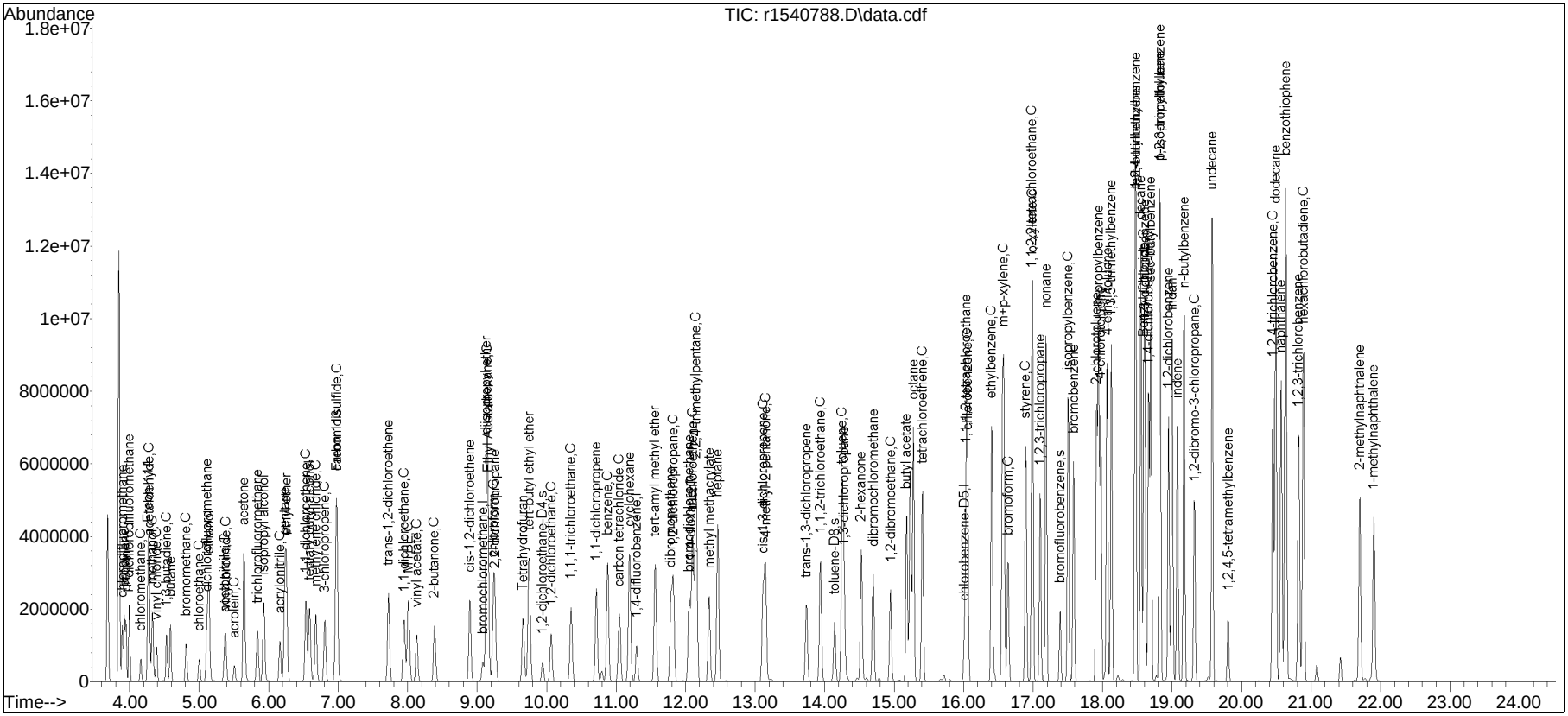
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.075	115	3680302	52.501	ppbV		98
111) 1,2-dibromo-3-chloropr...	19.325	75	1320940	54.563	ppbV		97
112) undecane	19.575	57	5187362	45.564	ppbV	#	95
113) 1,2,4,5-tetramethylben...	19.808	119	1039447	54.317	ppbV		99
114) dodecane	20.492	57	4993345	47.658	ppbV		98
115) 1,2,4-trichlorobenzene	20.450	180	3195883	66.739	ppbV		98
116) naphthalene	20.567	128	7917678	56.972	ppbV		99
117) 1,2,3-trichlorobenzene	20.817	180	2784969	66.279	ppbV		97
118) benzothiophene	20.633	134	13309016	55.959	ppbV		100
119) hexachlorobutadiene	20.892	225	2404951	62.338	ppbV		96
120) 2-methylnaphthalene	21.700	142	3305638	71.015	ppbV		99
121) 1-methylnaphthalene	21.900	142	3069669	67.803	ppbV		99

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

Sub List : Default - All compounds listed3\11\1120T_I\r1540786.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540788.D
Acq On : 21 Nov 2023 1:39 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD050
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:12 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

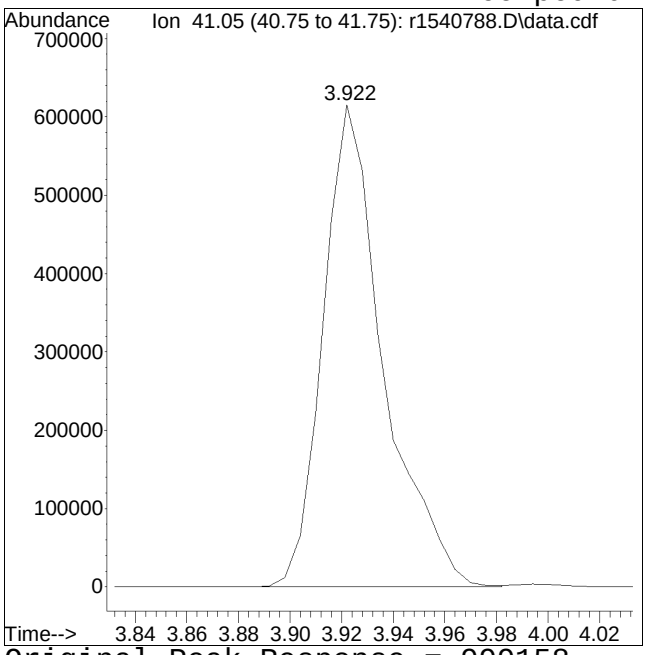


Manual Integration Report

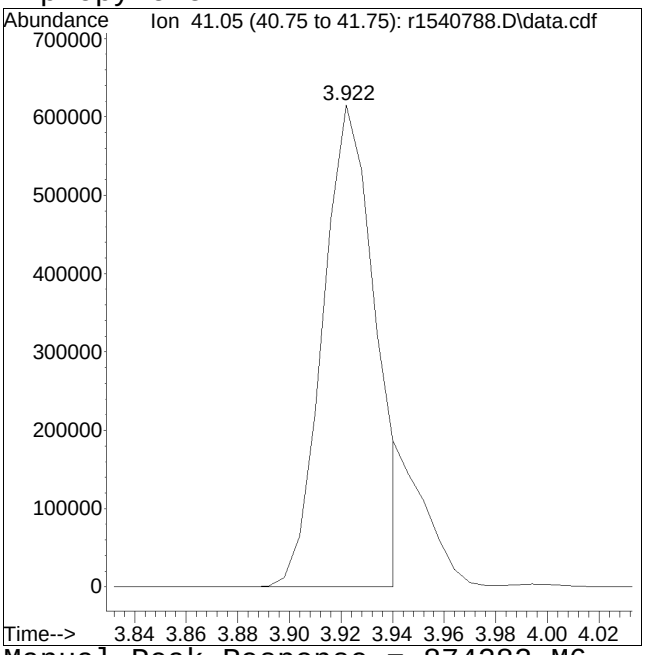
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540788.D
Date Inj'd : 11/21/2020 0:1: 9
Sample : ITO15-SIMSTD050

Method : TFS15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 10:00 am

Compound #3: propylene



Original Peak Response = 999158



Manual Peak Response = 874282 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540789.D
Acq On : 21 Nov 2023 2:20 AM
Operator : AIRLAB15:RAY
Sample : ITO15-LLSTD100
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.083	49	318523	10.000	ppbV	# 0.00
Standard Area = 345270			Recovery = 92.25%			
43) 1,4-difluorobenzene	11.293	114	1013177	10.000	ppbV	0.00
Standard Area = 974868			Recovery = 103.93%			
67) chlorobenzene-D5	16.017	54	141196	10.000	ppbV	# 0.00
Standard Area = 166825			Recovery = 84.64%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.942	65	361638	8.462	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.62%			
69) toluene-D8	14.142	98	1361201	11.994	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.94%			
90) bromofluorobenzene	17.392	95	884337	11.957	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.57%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	2494031	85.503	ppbV	95
3) propylene	3.922	41	1704570M6	85.410	ppbV	
4) propane	3.946	29	1738178	73.355	ppbV #	85
5) dichlorodifluoromethane	3.994	85	2867127	95.267	ppbV	100
6) chloromethane	4.162	50	1182123	60.719	ppbV	98
7) Freon-114	4.264	85	2552952	70.264	ppbV	99
8) methanol	4.330	31	2774526	295.117	ppbV	97
9) vinyl chloride	4.390	62	1796365	94.307	ppbV	95
10) 1,3-butadiene	4.534	54	1091032	70.526	ppbV #	69
11) butane	4.588	43	2387004	69.242	ppbV #	95
12) acetaldehyde	4.282	29	2210235	198.648	ppbV #	55
13) bromomethane	4.816	94	1345947	93.490	ppbV	97
14) chloroethane	5.002	64	914934	99.053	ppbV	98
15) ethanol	5.146	31	4322135	292.537	ppbV #	69
16) dichlorofluoromethane	5.110	67	2997348	92.401	ppbV	98
17) vinyl bromide	5.383	106	1461788	103.206	ppbV	99
18) acrolein	5.507	56	635796	73.493	ppbV	96
19) acetone	5.650	43	7846731	320.174	ppbV #	81
20) acetonitrile	5.370	41	1519177	78.664	ppbV	96
21) trichlorofluoromethane	5.840	101	2258162	100.333	ppbV	96
22) isopropyl alcohol	5.940	45	5307761	152.166	ppbV	97
23) acrylonitrile	6.167	53	1751431	103.830	ppbV	99
24) pentane	6.233	43	3759248	76.399	ppbV	98

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540789.D
Acq On : 21 Nov 2023 2:20 AM
Operator : AIRLAB15:RAY
Sample : ITO15-LLSTD100
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.257	31	3043370	84.222	ppbV	#	86
26) 1,1-dichloroethene	6.540	61	3036707	101.784	ppbV		91
27) tertiary butyl alcohol	6.594	59	4114530	112.412	ppbV		96
28) methylene chloride	6.684	49	2084815	82.024	ppbV		88
29) 3-chloropropene	6.810	41	2953736	83.336	ppbV		97
30) carbon disulfide	6.984	76	5258312	101.666	ppbV		97
31) Freon 113	6.978	101	3441975	102.087	ppbV	#	94
32) trans-1,2-dichloroethene	7.725	61	3192685	109.044	ppbV		90
33) 1,1-dichloroethane	7.950	63	4030188	103.282	ppbV		99
34) MTBE	8.008	73	4757363	97.655	ppbV		98
35) vinyl acetate	8.133	43	4365724	85.032	ppbV		100
36) 2-butanone	8.392	43	4254363	79.322	ppbV		97
37) cis-1,2-dichloroethene	8.900	61	2992844	105.185	ppbV		88
38) Ethyl Acetate	9.167	61	796948	105.172	ppbV	#	59
39) chloroform	9.242	83	3158290	96.524	ppbV		98
40) Tetrahydrofuran	9.658	42	2790752	82.874	ppbV		96
41) 2,2-dichloropropane	9.258	77	2371145	94.610	ppbV	#	95
42) 1,2-dichloroethane	10.067	62	2118145	96.490	ppbV	#	94
44) hexane	9.142	57	3271924	67.987	ppbV		86
45) diisopropyl ether	9.142	87	1806191	78.580	ppbV		89
46) tert-butyl ethyl ether	9.750	59	6759253	78.340	ppbV		99
48) 1,1,1-trichloroethane	10.350	97	2950504	85.479	ppbV		92
49) 1,1-dichloropropene	10.720	75	2831560	75.050	ppbV		97
50) benzene	10.880	78	6805606	77.447	ppbV		95
51) thiophene	0.000		0	N.D.	d		
52) carbon tetrachloride	11.053	117	2567107	90.425	ppbV		96
53) cyclohexane	11.193	56	4057582	79.195	ppbV		95
54) tert-amyl methyl ether	11.567	73	5698620	75.743	ppbV		97
55) dibromomethane	11.793	93	2086112	82.442	ppbV		92
56) 1,2-dichloropropane	11.827	63	2741487	77.750	ppbV		96
57) bromodichloromethane	12.053	83	3326151	86.713	ppbV	#	99
58) 1,4-dioxane	12.087	88	1654335	85.555	ppbV		99
59) trichloroethene	12.107	130	2913217	87.910	ppbV		99
60) 2,2,4-trimethylpentane	12.153	57	11419627	72.458	ppbV	#	97
61) methyl methacrylate	12.340	41	2711351	64.322	ppbV	#	90
62) heptane	12.467	43	4158234	57.648	ppbV	#	96
63) cis-1,3-dichloropropene	13.117	75	3539336	80.725	ppbV		99
64) 4-methyl-2-pentanone	13.150	43	4935542	59.714	ppbV	#	97
65) trans-1,3-dichloropropene	13.742	75	2889584	83.223	ppbV		98
66) 1,1,2-trichloroethane	13.942	97	2845536	86.992	ppbV		83

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540789.D
Acq On : 21 Nov 2023 2:20 AM
Operator : AIRLAB15:RAY
Sample : ITO15-LLSTD100
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	toluene	14.258	91	8074171	96.055	ppbV		99
70)	2-methylthiophene	0.000		0	N.D.	d		
71)	1,3-dichloropropane	14.283	76	3497037	89.233	ppbV		96
72)	2-hexanone	14.533	43	4689013	72.283	ppbV	#	98
73)	3-methylthiophene	0.000		0	N.D.	d		
74)	dibromochloromethane	14.700	129	3521623	121.499	ppbV		99
75)	1,2-dibromoethane	14.950	107	3878138	102.090	ppbV		95
76)	butyl acetate	15.183	73	1007353	99.016	ppbV		82
77)	octane	15.283	85	3007409	97.045	ppbV		97
78)	tetrachloroethene	15.408	166	3271177	104.713	ppbV		98
79)	1,1,1,2-tetrachloroethane	16.042	131	2549307	99.153	ppbV		95
80)	chlorobenzene	16.058	112	5929716	93.560	ppbV		94
81)	ethylbenzene	16.408	91	10385229	94.227	ppbV		97
82)	2-ethylthiophene	0.000		0	N.D.	d		
83)	m+p-xylene	16.575	91	14945686	173.464	ppbV		96
84)	bromoform	16.642	173	3296346	138.333	ppbV		98
85)	styrene	16.900	104	7081420	103.960	ppbV		95
86)	1,1,2,2-tetrachloroethane	16.992	83	4900091	75.934	ppbV		100
87)	o-xylene	17.000	91	6791619	78.538	ppbV		90
88)	1,2,3-trichloropropane	17.108	75	4475927	90.933	ppbV		97
89)	nonane	17.192	43	5811812	64.633	ppbV	#	95
91)	isopropylbenzene	17.508	105	10245800	95.271	ppbV		99
92)	bromobenzene	17.583	77	5654795	89.178	ppbV	#	78
93)	2-chlorotoluene	17.917	126	3290524	104.862	ppbV		91
94)	n-propylbenzene	17.942	120	3677338	102.305	ppbV		80
95)	4-chlorotoluene	17.975	126	3396405	108.423	ppbV		80
96)	4-ethyl toluene	18.067	105	10949216	96.286	ppbV		97
97)	1,3,5-trimethylbenzene	18.125	105	10254031	97.098	ppbV		96
98)	tert-butylbenzene	18.467	119	7741426	78.432	ppbV		92
99)	1,2,4-trimethylbenzene	18.483	105	7224992	74.928	ppbV	#	85
100)	decane	18.550	57	7434172	76.553	ppbV	#	95
101)	Benzyl Chloride	18.592	91	6675638	110.724	ppbV	#	90
102)	1,3-dichlorobenzene	18.608	146	6250442	96.923	ppbV		95
103)	1,4-dichlorobenzene	18.667	146	6485243	101.755	ppbV		98
104)	sec-butylbenzene	18.700	105	12245637	88.515	ppbV		92
105)	1,2,3-trimethylbenzene	18.833	105	5719268	71.576	ppbV		95
106)	p-isopropyltoluene	18.825	119	7737027	72.383	ppbV		99
107)	1,2-dichlorobenzene	18.950	146	6009133	96.356	ppbV		96
108)	n-butylbenzene	19.175	91	9979943	87.591	ppbV	#	86
109)	indan	19.000	117	9034211	94.228	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540789.D
Acq On : 21 Nov 2023 2:20 AM
Operator : AIRLAB15:RAY
Sample : ITO15-LLSTD100
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default - All compounds listed

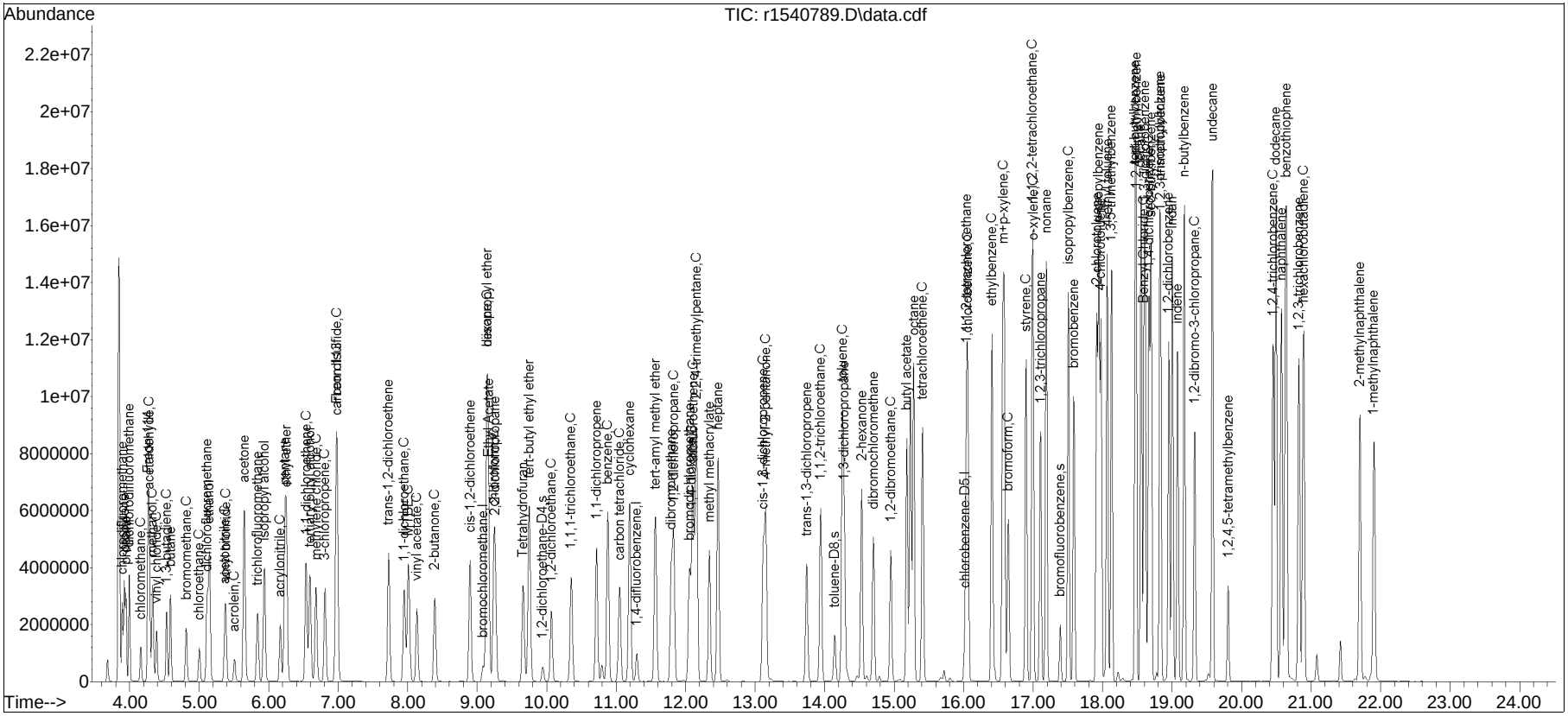
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.075	115	6498117	100.600	ppbV		95
111) 1,2-dibromo-3-chloropr...	19.325	75	2360225	105.801	ppbV		93
112) undecane	19.583	57	7617727	72.615	ppbV	#	87
113) 1,2,4,5-tetramethylben...	19.808	119	1943262	110.202	ppbV		96
114) dodecane	20.492	57	7173717	74.304	ppbV		90
115) 1,2,4-trichlorobenzene	20.450	180	5283964	119.749	ppbV		97
116) naphthalene	20.575	128	13357140	104.303	ppbV		97
117) 1,2,3-trichlorobenzene	20.825	180	4863880	125.620	ppbV		98
118) benzothiophene	20.642	134	19131052	87.295	ppbV		97
119) hexachlorobutadiene	20.892	225	3702838	104.160	ppbV		94
120) 2-methylnaphthalene	21.700	142	6431696	149.949	ppbV		97
121) 1-methylnaphthalene	21.900	142	6035777	144.682	ppbV		99

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

Sub List : Default - All compounds listed3\11\1120T_I\r1540786.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540789.D
Acq On : 21 Nov 2023 2:20 AM
Operator : AIRLAB15:RAY
Sample : ITO15-LLSTD100
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:00:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 09:57:31 2023
Response via : Initial Calibration

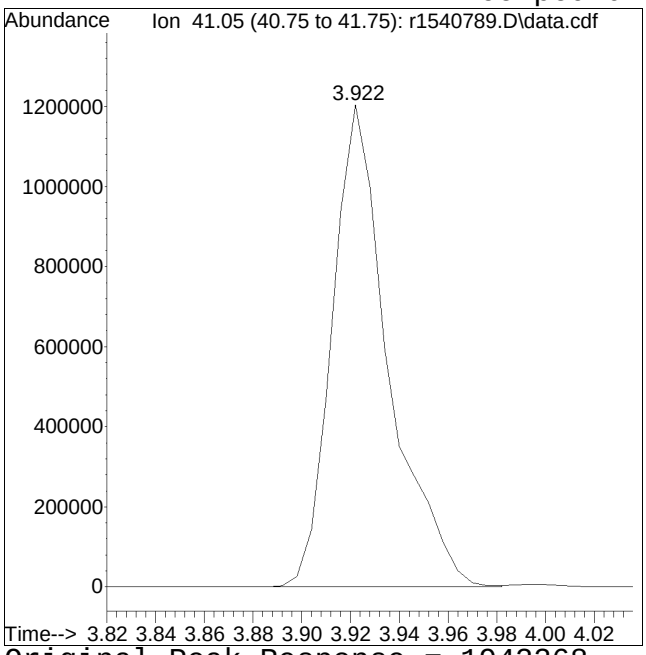


Manual Integration Report

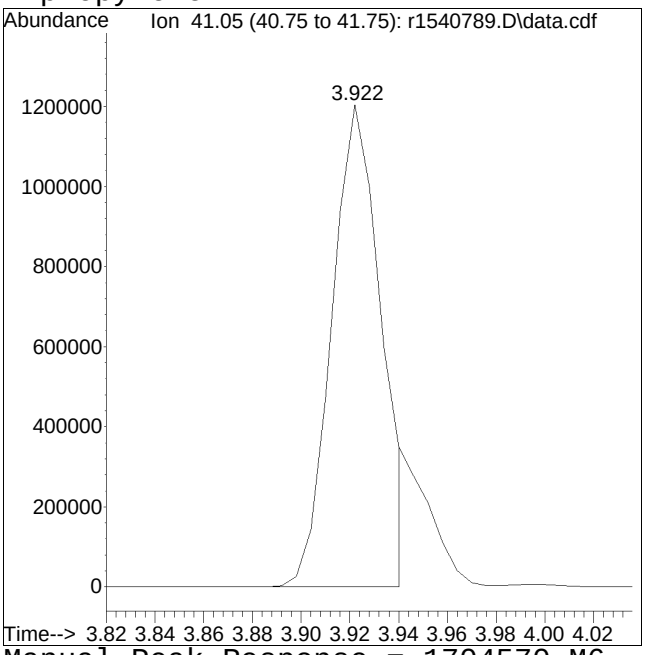
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1540789.D
Date Inj'd : 11/21/2020 0:2: 0
Sample : ITO15-LLSTD100

Method : TFS15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 10:00 am

Compound #3: propylene



Original Peak Response = 1942268



Manual Peak Response = 1704570 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540792.D
Acq On : 21 Nov 2023 1:25 PM
Operator : AIRLAB15:RAY
Sample : CTO15-LLSTD10
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 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	79	0.00
2		chlorodifluoromethane	0.963	0.824	14.4	71	0.00
3		propylene	0.534	0.683	-27.9	106	0.00
4		propane	0.698	0.580	16.9	65	0.00
5		dichlorodifluoromethane	1.139	1.021	10.4	71	0.00
6	C	chloromethane	0.428	0.375	12.4	71	0.00
7		Freon-114	1.103	1.119	-1.5	80	0.00
8	C	methanol	0.228	0.165	27.6	56#	0.00
9	C	vinyl chloride	0.625	0.600	4.0	75	0.00
10	C	1,3-butadiene	0.419	0.378	9.8	72	0.00
11		butane	0.753	0.777	-3.2	88	0.00
13	C	bromomethane	0.500	0.484	3.2	76	0.00
14	C	chloroethane	0.307	0.323	-5.2	86	0.00
15		ethanol	0.376	0.340	9.6	64	0.00
16		dichlorofluoromethane	0.989	0.979	1.0	82	0.00
17	C	vinyl bromide	0.462	0.501	-8.4	90	0.00
18	C	acrolein	0.232	0.194	16.4	66	0.00
19		acetone	0.564	0.666	-18.1	98	0.00
20	C	acetonitrile	0.477	0.508	-6.5	92	0.00
21		trichlorofluoromethane	0.851	0.847	0.5	78	0.00
22		isopropyl alcohol	0.711	0.731	-2.8	87	0.00
23	C	acrylonitrile	0.507	0.342	32.5#	56#	0.00
24		pentane	1.206	0.945	21.6	64	0.00
25		ethyl ether	1.172	0.706	39.8#	48#	0.00
26	C	1,1-dichloroethene	0.981	1.160	-18.2	96	0.00
27		tertiary butyl alcohol	1.205	1.356	-12.5	94	0.00
28	C	methylene chloride	0.771	0.778	-0.9	79	0.00
29	C	3-chloropropene	0.869	1.095	-26.0	104	0.00
30	C	carbon disulfide	1.811	1.962	-8.3	87	0.00
31		Freon 113	1.116	1.386	-24.2	102	0.00
32		trans-1,2-dichloroethene	0.982	1.149	-17.0	97	0.00
33	C	1,1-dichloroethane	1.238	1.459	-17.9	96	0.00
34	C	MTBE	1.494	1.698	-13.7	93	0.00
35	C	vinyl acetate	1.261	1.287	-2.1	86	0.00
36	C	2-butanone	1.329	1.497	-12.6	93	0.00
37		cis-1,2-dichloroethene	0.937	1.104	-17.8	95	0.00
38		Ethyl Acetate	0.248	0.319	-28.6	106	0.00
39	C	chloroform	1.226	1.231	-0.4	78	0.00
40		Tetrahydrofuran	0.830	0.954	-14.9	95	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540792.D
Acq On : 21 Nov 2023 1:25 PM
Operator : AIRLAB15:RAY
Sample : CTO15-LLSTD10
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 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	0.834	0.804	3.6	77	0.00
42	C	1,2-dichloroethane	0.743	0.752	-1.2	82	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	96	0.00
44	C	hexane	0.437	0.432	1.1	93	0.00
45		diisopropyl ether	0.221	0.210	5.0	89	0.00
46		tert-butyl ethyl ether	0.750	0.698	6.9	88	0.00
47	s	1,2-dichloroethane-D4	0.371	0.353	4.9	90	0.00
48	C	1,1,1-trichloroethane	0.323	0.303	6.2	88	0.00
49		1,1-dichloropropene	0.325	0.300	7.7	88	0.00
50	C	benzene	0.809	0.715	11.6	83	0.00
52	C	carbon tetrachloride	0.301	0.263	12.6	78	0.00
53		cyclohexane	0.477	0.462	3.1	93	0.00
54		tert-amyl methyl ether	0.607	0.572	5.8	90	0.00
55		dibromomethane	0.235	0.230	2.1	95	0.00
56	C	1,2-dichloropropane	0.294	0.303	-3.1	98	0.00
57		bromodichloromethane	0.404	0.374	7.4	85	0.00
58	C	1,4-dioxane	0.187	0.190	-1.6	97	0.00
59	C	trichloroethene	0.319	0.330	-3.4	98	0.00
60	C	2,2,4-trimethylpentane	1.456	1.457	-0.1	94	0.00
61		methyl methacrylate	0.277	0.298	-7.6	102	0.00
62		heptane	0.481	0.475	1.2	94	0.00
63	C	cis-1,3-dichloropropene	0.377	0.364	3.4	86	0.00
64	C	4-methyl-2-pentanone	0.545	0.541	0.7	93	0.00
65		trans-1,3-dichloropropene	0.301	0.277	8.0	81	0.00
66	C	1,1,2-trichloroethane	0.292	0.311	-6.5	101	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	80	0.00
68	C	toluene	5.734	6.674	-16.4	94	0.00
69	s	toluene-D8	7.635	9.474	-24.1	107	0.00
71		1,3-dichloropropane	2.549	2.567	-0.7	83	0.00
72		2-hexanone	3.051	3.510	-15.0	93	0.00
74		dibromochloromethane	2.230	2.850	-27.8	100	0.00
75	C	1,2-dibromoethane	2.593	2.961	-14.2	92	0.00
76		butyl acetate	0.626	0.677	-8.1	87	0.00
77		octane	2.251	2.392	-6.3	87	0.00
78	C	tetrachloroethene	2.301	2.685	-16.7	94	0.00
79		1,1,1,2-tetrachloroethane	1.812	2.157	-19.0	96	0.00
80	C	chlorobenzene	4.481	5.031	-12.3	89	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540792.D
Acq On : 21 Nov 2023 1:25 PM
Operator : AIRLAB15:RAY
Sample : CTO15-LLSTD10
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 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	7.343	8.767	-19.4	94	0.00
83	C	m+p-xylene	5.792	6.986	-20.6	94	0.00
84	C	bromoform	1.938	2.615	-34.9#	104	0.00
85	C	styrene	4.694	5.655	-20.5	96	0.00
86	C	1,1,2,2-tetrachloroethane	4.357	5.023	-15.3	86	0.00
87	C	o-xylene	5.778	7.090	-22.7	93	0.00
88		1,2,3-trichloropropane	3.231	3.355	-3.8	84	0.00
89		nonane	4.585	4.888	-6.6	86	0.00
90	s	bromofluorobenzene	4.973	5.929	-19.2	102	0.00
91	C	isopropylbenzene	7.342	8.667	-18.0	96	0.00
92		bromobenzene	4.272	4.517	-5.7	85	0.00
93		2-chlorotoluene	2.221	2.602	-17.2	94	0.00
94		n-propylbenzene	2.613	2.970	-13.7	90	0.00
95		4-chlorotoluene	2.232	2.506	-12.3	90	0.00
96		4-ethyl toluene	7.753	9.337	-20.4	97	0.00
97		1,3,5-trimethylbenzene	7.201	8.906	-23.7	91	0.00
98		tert-butylbenzene	7.043	8.094	-14.9	88	0.00
99		1,2,4-trimethylbenzene	6.485	7.908	-21.9	89	0.00
100		decane	6.136	7.004	-14.1	87	0.00
101	C	Benzyl Chloride	3.901	4.853	-24.4	90	0.00
102		1,3-dichlorobenzene	4.602	5.530	-20.2	92	0.00
103	C	1,4-dichlorobenzene	4.546	5.411	-19.0	91	0.00
104		sec-butylbenzene	9.447	10.858	-14.9	90	0.00
106		p-isopropyltoluene	7.897	9.002	-14.0	95	0.00
107		1,2-dichlorobenzene	4.329	5.262	-21.6	91	0.00
108		n-butylbenzene	7.571	9.281	-22.6	92	0.00
111	C	1,2-dibromo-3-chloropropane	1.540	1.668	-8.3	81	0.00
112		undecane	6.581	7.659	-16.4	82	0.00
114		dodecane	6.085	7.445	-22.4	76	0.00
115	C	1,2,4-trichlorobenzene	3.363	4.068	-21.0	80	0.00
116		naphthalene	8.774	10.532	-20.0	84	0.00
117		1,2,3-trichlorobenzene	2.982	3.643	-22.2	85	0.00
119	C	hexachlorobutadiene	2.852	3.242	-13.7	77	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\Airlab15\2023\11\1120T_I\
Data File : r1540792.D
Acq On : 21 Nov 2023 1:25 PM
Operator : AIRLAB15:RAY
Sample : CTO15-LLSTD10
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.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	274409	10.000	ppbV	# 0.00
Standard Area = 345270			Recovery = 79.48%			
43) 1,4-difluorobenzene	11.293	114	938510	10.000	ppbV	0.00
Standard Area = 974868			Recovery = 96.27%			
67) chlorobenzene-D5	16.017	54	133589	10.000	ppbV	0.00
Standard Area = 166825			Recovery = 80.08%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.942	65	331314	9.506	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.06%			
69) toluene-D8	14.142	98	1265663	12.410	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 124.10%			
90) bromofluorobenzene	17.392	95	791994	11.922	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.22%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.892	51	225989	8.551	ppbV	96
3) propylene	3.922	41	187437M6	12.791	ppbV	
4) propane	3.946	29	159039	8.308	ppbV #	87
5) dichlorodifluoromethane	3.994	85	280066	8.962	ppbV	99
6) chloromethane	4.156	50	102860	8.753	ppbV	97
7) Freon-114	4.264	85	306936	10.141	ppbV	99
8) methanol	4.324	31	226579	36.259	ppbV	96
9) vinyl chloride	4.384	62	164723	9.611	ppbV	95
10) 1,3-butadiene	4.528	54	103690	9.028	ppbV #	70
11) butane	4.588	43	213148	10.314	ppbV #	96
13) bromomethane	4.810	94	132777	9.673	ppbV	98
14) chloroethane	5.002	64	88512	10.515	ppbV	98
15) ethanol	5.128	31	466795	45.213	ppbV #	81
16) dichlorofluoromethane	5.110	67	268715	9.899	ppbV	99
17) vinyl bromide	5.383	106	137574	10.855	ppbV	97
18) acrolein	5.507	56	53114	8.329	ppbV	98
19) acetone	5.643	43	913204	58.959	ppbV	86
20) acetonitrile	5.363	41	139413	10.640	ppbV	98
21) trichlorofluoromethane	5.837	101	232298	9.946	ppbV	96
22) isopropyl alcohol	5.923	45	501279	25.687	ppbV	98
23) acrylonitrile	6.160	53	93858	6.748	ppbV	99
24) pentane	6.233	43	259286	7.833	ppbV	94
25) ethyl ether	6.260	31	193775	6.027	ppbV #	83

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540792.D
Acq On : 21 Nov 2023 1:25 PM
Operator : AIRLAB15:RAY
Sample : CTO15-LLSTD10
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) 1,1-dichloroethene	6.534	61	318341	11.822	ppbV		95
27) tertiary butyl alcohol	6.588	59	372053	11.256	ppbV		97
28) methylene chloride	6.678	49	213384	10.084	ppbV		89
29) 3-chloropropene	6.810	41	300573	12.609	ppbV		96
30) carbon disulfide	6.978	76	538269	10.833	ppbV		97
31) Freon 113	6.972	101	380221	12.419	ppbV	#	90
32) trans-1,2-dichloroethene	7.725	61	315208	11.701	ppbV		94
33) 1,1-dichloroethane	7.950	63	400231	11.786	ppbV		98
34) MTBE	8.017	73	465848	11.362	ppbV		98
35) vinyl acetate	8.133	43	353028	10.201	ppbV		100
36) 2-butanone	8.392	43	410717	11.261	ppbV		100
37) cis-1,2-dichloroethene	8.892	61	302826	11.776	ppbV		90
38) Ethyl Acetate	9.158	61	87592	12.862	ppbV		87
39) chloroform	9.233	83	337733	10.036	ppbV		96
40) Tetrahydrofuran	9.667	42	261767	11.489	ppbV		98
41) 2,2-dichloropropane	9.258	77	220760	9.651	ppbV	#	94
42) 1,2-dichloroethane	10.067	62	206385	10.126	ppbV		95
44) hexane	9.142	57	405807	9.885	ppbV		89
45) diisopropyl ether	9.142	87	197102	9.487	ppbV		92
46) tert-butyl ethyl ether	9.750	59	654780	9.300	ppbV		99
48) 1,1,1-trichloroethane	10.350	97	284809	9.390	ppbV		96
49) 1,1-dichloropropene	10.713	75	281736	9.245	ppbV		97
50) benzene	10.880	78	671413	8.839	ppbV		97
52) carbon tetrachloride	11.047	117	247234	8.745	ppbV		98
53) cyclohexane	11.193	56	433522	9.692	ppbV		99
54) tert-amyl methyl ether	11.567	73	536668	9.415	ppbV		98
55) dibromomethane	11.787	93	215945	9.809	ppbV		93
56) 1,2-dichloropropane	11.820	63	284269	10.306	ppbV		97
57) bromodichloromethane	12.047	83	351281	9.273	ppbV		98
58) 1,4-dioxane	12.087	88	178784	10.214	ppbV		98
59) trichloroethene	12.100	130	309785	10.337	ppbV		99
60) 2,2,4-trimethylpentane	12.147	57	1367042	10.004	ppbV	#	99
61) methyl methacrylate	12.340	41	279672	10.744	ppbV		93
62) heptane	12.460	43	445655	9.873	ppbV		98
63) cis-1,3-dichloropropene	13.117	75	341687	9.650	ppbV		98
64) 4-methyl-2-pentanone	13.150	43	507372	9.914	ppbV	#	96
65) trans-1,3-dichloropropene	13.742	75	260166	9.220	ppbV		98
66) 1,1,2-trichloroethane	13.942	97	292280	10.677	ppbV		84
68) toluene	14.250	91	891589	11.639	ppbV		99
71) 1,3-dichloropropane	14.283	76	342862	10.070	ppbV		96

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540792.D
Acq On : 21 Nov 2023 1:25 PM
Operator : AIRLAB15:RAY
Sample : CTO15-LLSTD10
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	14.533	43	468868	11.504	ppbV	97
74) dibromochloromethane	14.700	129	380684	12.778	ppbV	100
75) 1,2-dibromoethane	14.950	107	395536	11.421	ppbV	96
76) butyl acetate	15.183	73	90413	10.808	ppbV	97
77) octane	15.275	85	319492	10.626	ppbV	96
78) tetrachloroethene	15.408	166	358686	11.668	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.042	131	288144	11.907	ppbV	96
80) chlorobenzene	16.058	112	672106	11.227	ppbV	97
81) ethylbenzene	16.408	91	1171150	11.938	ppbV	98
83) m+p-xylene	16.567	91	1866616	24.124	ppbV	98
84) bromoform	16.633	173	349282	13.495	ppbV	98
85) styrene	16.892	104	755498	12.048	ppbV	94
86) 1,1,2,2-tetrachloroethane	16.983	83	670984	11.528	ppbV	100
87) o-xylene	16.992	91	947141	12.272	ppbV	100
88) 1,2,3-trichloropropane	17.100	75	448228	10.384	ppbV	99
89) nonane	17.183	43	652999	10.662	ppbV	97
91) isopropylbenzene	17.508	105	1157753	11.804	ppbV	98
92) bromobenzene	17.583	77	603380	10.573	ppbV	93
93) 2-chlorotoluene	17.908	126	347657	11.715	ppbV	94
94) n-propylbenzene	17.942	120	396757	11.367	ppbV	94
95) 4-chlorotoluene	17.975	126	334798	11.227	ppbV	97
96) 4-ethyl toluene	18.067	105	1247376	12.043	ppbV	98
97) 1,3,5-trimethylbenzene	18.125	105	1189677	12.367	ppbV	96
98) tert-butylbenzene	18.467	119	1081322	11.493	ppbV	95
99) 1,2,4-trimethylbenzene	18.475	105	1056458	12.195	ppbV	93
100) decane	18.550	57	935689	11.415	ppbV	98
101) Benzyl Chloride	18.592	91	648330	12.440	ppbV	98
102) 1,3-dichlorobenzene	18.608	146	738768	12.018	ppbV	97
103) 1,4-dichlorobenzene	18.658	146	722786	11.902	ppbV	96
104) sec-butylbenzene	18.692	105	1450457	11.493	ppbV	98
106) p-isopropyltoluene	18.825	119	1202590	11.399	ppbV	100
107) 1,2-dichlorobenzene	18.950	146	702912	12.155	ppbV	98
108) n-butylbenzene	19.175	91	1239871	12.259	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.325	75	222763	10.830	ppbV	98
112) undecane	19.575	57	1023192	11.639	ppbV	98
114) dodecane	20.492	57	994518	12.234	ppbV	99
115) 1,2,4-trichlorobenzene	20.450	180	543436	12.096	ppbV	99
116) naphthalene	20.567	128	1406993	12.004	ppbV	100
117) 1,2,3-trichlorobenzene	20.825	180	486656	12.215	ppbV	97
119) hexachlorobutadiene	20.892	225	433105	11.369	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540792.D
Acq On : 21 Nov 2023 1:25 PM
Operator : AIRLAB15:RAY
Sample : CTO15-LLSTD10
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120T_I\r1540786.D
Sub List : Default-ICV-AP2 - All compounds listed

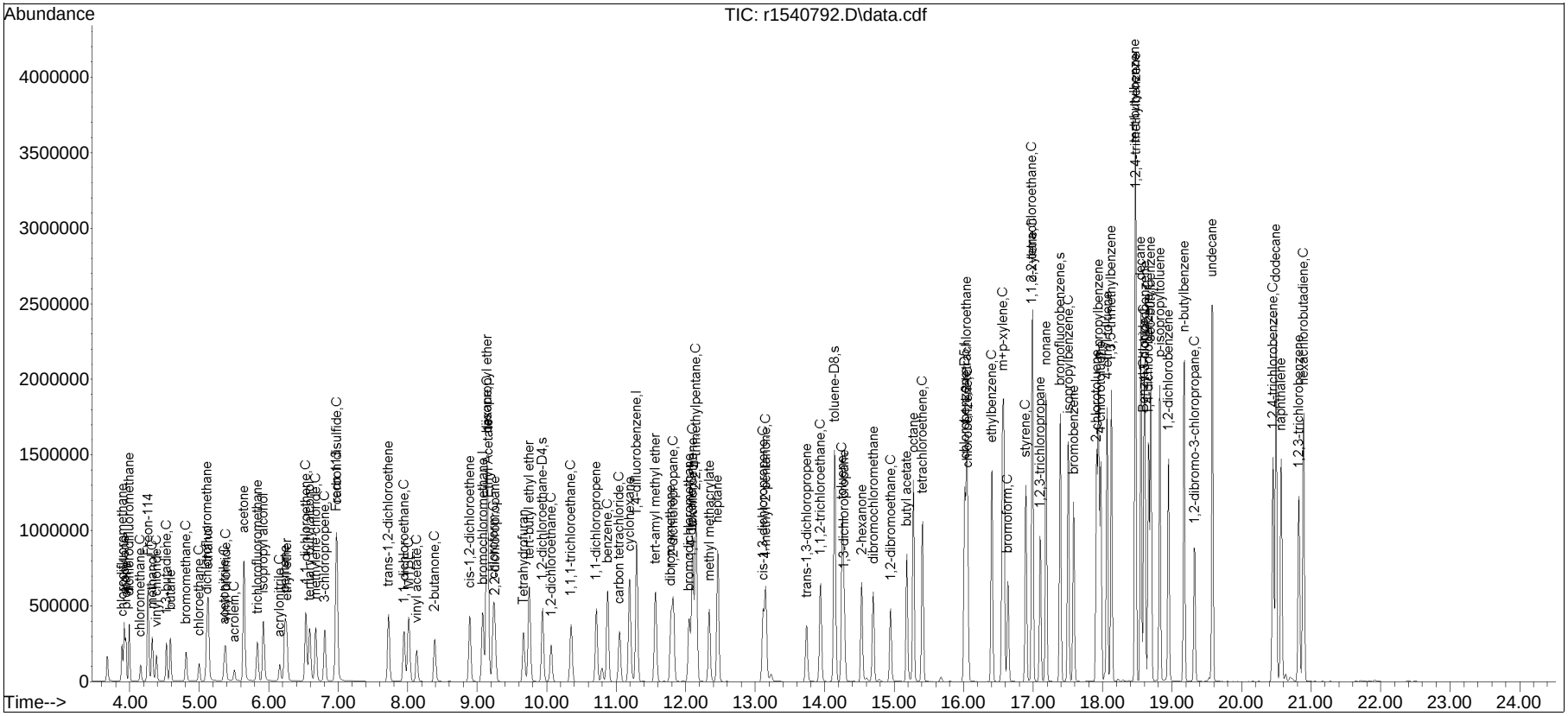
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Sub List : Default-ICV-AP2 - All compounds listed0T_I\r1540786.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120T_I\
Data File : r1540792.D
Acq On : 21 Nov 2023 1:25 PM
Operator : AIRLAB15:RAY
Sample : CTO15-LLSTD10
Misc : WG1855304
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 15:45:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120T_I\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 15:43:21 2023
Response via : Initial Calibration

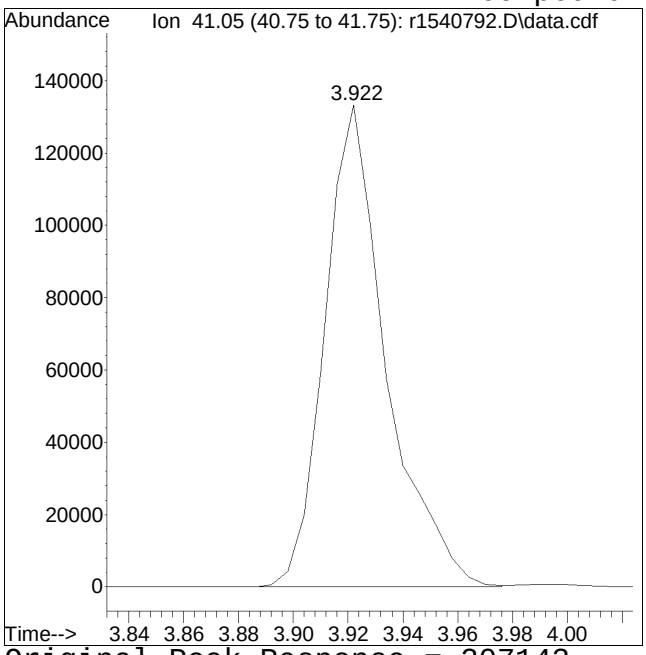


Manual Integration Report

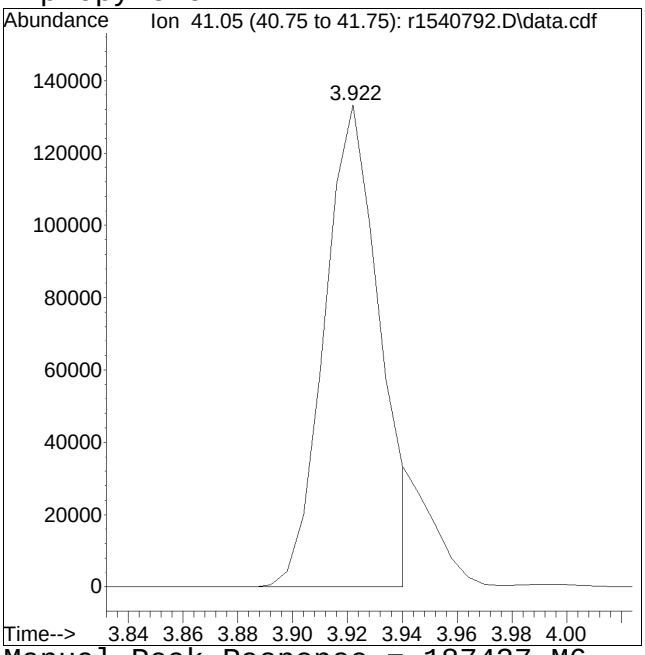
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1540792.D
Date Inj'd : 11/21/2020 0:1: 5
Sample : CTO15-LLSTD10

Method : TFS15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 3:45 pm

Compound #3: propylene



Original Peak Response = 207143



Manual Peak Response = 187437 M6

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

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Method File : TFS22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Dec 01 08:46:43 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
50 =r221896.D 100 =r221897.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoro...	0.631	0.729	0.807	0.631	0.728	0.575	0.583	0.653	0.667	12.10
3)		propylene		0.593	0.538	0.530	0.498	0.545	0.530	0.541	0.539	5.23
4)		propane		0.608	0.500	0.423	0.404	0.381	0.365	0.358	0.434	20.82
5)		dichlorodifluo...	0.956	0.956	0.898	0.877	0.765	0.761	0.672	0.559	0.805	17.63
6)	C	chloromethane	0.485	0.458	0.456	0.427	0.428	0.419	0.413	0.409	0.437	6.06
7)		Freon-114	1.406	1.390	1.366	1.249	1.201	1.064	0.907	0.750	1.167	20.67
8)	C	methanol			0.225	0.180	0.175	0.165	0.154	0.146	0.174	16.08
9)	C	vinyl chloride	0.618	0.619	0.608	0.577	0.568	0.527	0.496	0.452	0.558	11.00
10)	C	1,3-butadiene	0.462	0.451	0.449	0.413	0.408	0.395	0.373	0.347	0.412	9.87
11)		butane	0.771	0.736	0.737	0.671	0.658	0.621	0.586	0.551	0.666	11.71
12)	C	acetaldehyde		0.277	0.261	0.222	0.215	0.196	0.177	0.165	0.216	19.27
13)	C	bromomethane	0.469	0.454	0.442	0.416	0.398	0.370	0.326	0.284	0.395	16.38
14)	C	chloroethane	0.242	0.235	0.232	0.217	0.215	0.203	0.190	0.179	0.214	10.34
15)		ethanol			0.186	0.184	0.169	0.163	0.142	0.121	0.161	15.63
16)		dichlorofluoro...	0.877	0.897	0.779	0.819	0.654	0.614	0.499	0.401	0.693	26.13
17)	C	vinyl bromide	0.420	0.404	0.406	0.369	0.358	0.346	0.305	0.265	0.359	14.83
18)	C	acrolein		0.188	0.188	0.176	0.175	0.167	0.161	0.153	0.173	7.67
19)		acetone	0.374	0.368	0.363	0.320	0.310	0.298	0.275	0.266	0.322	13.14
20)	C	acetonitrile	0.359	0.340	0.326	0.303	0.300	0.290	0.280	0.278	0.310	9.54
21)		trichlorofluor...	0.496	0.482	0.469	0.448	0.434	0.404	0.367	0.337	0.430	13.12
22)		isopropyl alcohol	0.634	0.612	0.558	0.533	0.512	0.513	0.469	0.436	0.533	12.55
23)	C	acrylonitrile	0.396	0.360	0.359	0.338	0.334	0.334	0.307	0.282	0.339	10.23
24)		pentane	0.776	0.759	0.725	0.682	0.659	0.631	0.576	0.531	0.667	12.92
25)		ethyl ether	0.534	0.484	0.459	0.437	0.429	0.408	0.374	0.354	0.435	13.41
26)	C	1,1-dichloroet...	0.874	0.961	0.955	0.882	0.863	0.854	0.666	0.558	0.827	17.11
27)		tertiary butyl...		1.298	1.213	1.312	1.265	1.282	1.099	0.941	1.202	11.29
28)	C	methylene chlo...		0.905	0.885	0.801	0.791	0.769	0.734	0.663	0.793	10.55
29)	C	3-chloropropene	1.178	1.149	1.149	1.071	1.061	1.058	1.011	0.914	1.074	8.04
30)	C	carbon disulfide	2.474	2.451	2.429	2.223	2.190	2.170	1.972	1.673	2.198	12.42
31)		Freon 113	1.396	1.355	1.350	1.255	1.230	1.174	1.030	0.847	1.205	15.46

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Method File : TFS22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Dec 01 08:46:43 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
50 =r221896.D 100 =r221897.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)		trans-1,2-dich...	1.211	1.133	1.109	1.034	1.021	1.002	0.904	0.765	1.022	13.64
33)	C	1,1-dichloroet...	1.433	1.421	1.421	1.350	1.331	1.284	1.183	1.015	1.305	11.03
34)	C	MTBE	2.075	2.087	2.070	1.926	1.912	1.891	1.727	1.475	1.895	11.04
35)	C	vinyl acetate			1.596	1.399	1.443	1.494	1.476	1.360	1.461	5.64
36)	C	2-butanone			1.697	1.657	1.690	1.670	1.675	1.581	1.396	1.624	6.62
37)		cis-1,2-dichlo...	1.057	1.026	1.016	0.964	0.948	0.906	0.822	0.700	0.930	12.83
38)		Ethyl Acetate	0.292	0.274	0.283	0.261	0.262	0.253	0.218	0.179	0.253	14.74
39)	C	chloroform	1.314	1.318	1.302	1.206	1.185	1.113	0.957	0.779	1.147	16.78
40)		Tetrahydrofuran	1.137	1.130	1.090	1.034	1.031	1.026	0.964	0.855	1.033	8.95
41)		2,2-dichloropr...	1.071	1.007	1.010	0.971	0.964	0.903	0.765	0.614	0.913	16.58
42)	C	1,2-dichloroet...	0.863	0.765	0.736	0.665	0.654	0.611	0.516	0.405	0.652	22.13
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.435	0.413	0.415	0.375	0.363	0.340	0.275	0.214	0.354	21.46
45)		diisopropyl ether	0.260	0.256	0.257	0.234	0.233	0.214	0.178	0.140	0.222	19.29
46)		tert-butyl eth...	0.757	0.752	0.743	0.699	0.686	0.638	0.536	0.431	0.655	17.78
47)	s	1,2-dichloroet...	0.290	0.288	0.293	0.290	0.288	0.279	0.251	0.208	0.273	10.91
48)	C	1,1,1-trichlor...	0.322	0.316	0.315	0.297	0.289	0.269	0.219	0.188	0.277	17.74
49)		1,1-dichloropr...	0.337	0.330	0.331	0.312	0.310	0.295	0.256	0.213	0.298	14.42
50)	C	benzene	0.850	0.826	0.820	0.769	0.770	0.731	0.651	0.551	0.746	13.53
51)		thiophene								0.000		-1.00
52)	C	carbon tetrach...	0.291	0.284	0.291	0.270	0.262	0.242	0.194	0.151	0.248	20.51
53)		cyclohexane	0.494	0.455	0.453	0.413	0.400	0.386	0.344	0.294	0.405	15.93
54)		tert-amyl meth...	0.756	0.723	0.721	0.679	0.673	0.640	0.556	0.468	0.652	14.77
55)		dibromomethane	0.217	0.213	0.208	0.194	0.187	0.172	0.137	0.106	0.179	22.02
56)	C	1,2-dichloropr...	0.280	0.275	0.275	0.259	0.257	0.240	0.201	0.161	0.244	17.30
57)		bromodichlorom...	0.378	0.382	0.384	0.348	0.338	0.316	0.248	0.199	0.324	20.87
58)	C	1,4-dioxane	0.198	0.186	0.180	0.162	0.168	0.166	0.137	0.106	0.163	17.96
59)	C	trichloroethene	0.347	0.342	0.339	0.321	0.314	0.292	0.231	0.174	0.295	20.91
60)	C	2,2,4-trimethy...	1.343	1.333	1.324	1.191	1.163	1.097	0.887	0.689	1.128	20.75
61)		methyl methacr...			0.270	0.271	0.258	0.259	0.247	0.217	0.181	0.243	13.56
62)		heptane	0.520	0.513	0.511	0.469	0.459	0.440	0.363	0.292	0.446	18.10

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Method File : TFS22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Dec 01 08:46:43 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
50 =r221896.D 100 =r221897.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C	cis-1,3-dichlo...	0.398	0.401	0.397	0.379	0.378	0.356	0.296	0.240	0.356	16.25
64)	C	4-methyl-2-pen...		0.613	0.600	0.543	0.527	0.486	0.392	0.309	0.496	22.32
65)		trans-1,3-dich...	0.327	0.324	0.324	0.303	0.302	0.291	0.253	0.211	0.292	13.98
66)	C	1,1,2-trichlor...	0.300	0.295	0.288	0.276	0.275	0.262	0.225	0.187	0.264	14.71
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	9.358	9.144	9.076	8.643	8.615	8.286	7.466	6.142	8.341	12.81
69)	s	toluene-D8	1.076	1.067	1.102	1.119	1.160	1.212	1.346	1.458	1.193	11.80
70)		2-methylthiophene									0.000	-1.00
71)		1,3-dichloropr...	4.198	4.094	4.047	3.871	3.894	3.742	3.417	2.924	3.773	11.11
72)		2-hexanone	5.030	5.161	5.267	4.884	4.954	4.944	4.702	4.203	4.893	6.69
73)		3-methylthiophene									0.000	-1.00
74)		dibromochlorom...	3.668	3.647	3.589	3.413	3.377	3.327	2.992	2.520	3.317	11.73
75)	C	1,2-dibromoethane	3.889	3.927	3.884	3.750	3.760	3.732	3.454	2.996	3.674	8.48
76)		butyl acetate		1.136	1.170	1.216	1.260	1.268	1.293	1.205	1.221	4.60
77)		octane	3.672	3.751	3.784	3.627	3.563	3.426	2.973	2.469	3.408	13.46
78)	C	tetrachloroethene	3.579	3.574	3.516	3.409	3.385	3.246	2.850	2.332	3.236	13.46
79)		1,1,1,2-tetrac...	2.954	2.920	2.913	2.759	2.702	2.527	2.123	1.739	2.579	16.91
80)	C	chlorobenzene	7.159	7.234	7.120	6.830	6.757	6.445	5.565	4.504	6.452	14.79
81)	C	ethylbenzene	1.095	1.085	1.102	1.059	1.053	1.016	0.902	0.760	1.009	11.84
82)		2-ethylthiophene									0.000	-1.00
83)	C	m+p-xylene	8.967	9.012	8.981	8.613	8.358	7.652	6.330	4.932	7.856	18.99
84)	C	bromoform	3.003	3.013	3.028	2.856	2.825	2.738	2.337	1.953	2.719	14.08
85)	C	styrene	7.180	7.235	7.395	7.395	7.463	7.257	6.635	5.766	7.041	8.18
86)	C	1,1,2,2-tetrac...	5.874	5.913	5.919	5.751	5.610	5.155	4.359	3.552	5.266	16.59
87)	C	o-xylene	8.977	8.941	8.928	8.504	8.186	7.298	5.835	4.695	7.670	21.04
88)		1,2,3-trichlor...	4.556	4.693	4.614	4.516	4.531	4.411	4.109	3.673	4.388	7.70
89)		nonane	6.799	6.855	6.902	6.602	6.461	6.031	5.173	4.391	6.152	14.86
90)	s	bromofluoroben...	6.334	6.164	6.444	6.671	6.900	7.041	7.814	8.008	6.922	9.77
91)	C	isopropylbenzene	1.168	1.169	1.178	1.138	1.119	1.045	0.911	0.760	1.061	14.24
92)		bromobenzene	6.408	6.286	6.351	6.130	6.059	5.739	5.007	4.292	5.784	13.05
93)		2-chlorotoluene	3.568	3.474	3.479	3.460	3.438	3.324	2.902	2.370	3.252	12.64

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Method File : TFS22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Dec 01 08:46:43 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
50 =r221896.D 100 =r221897.D

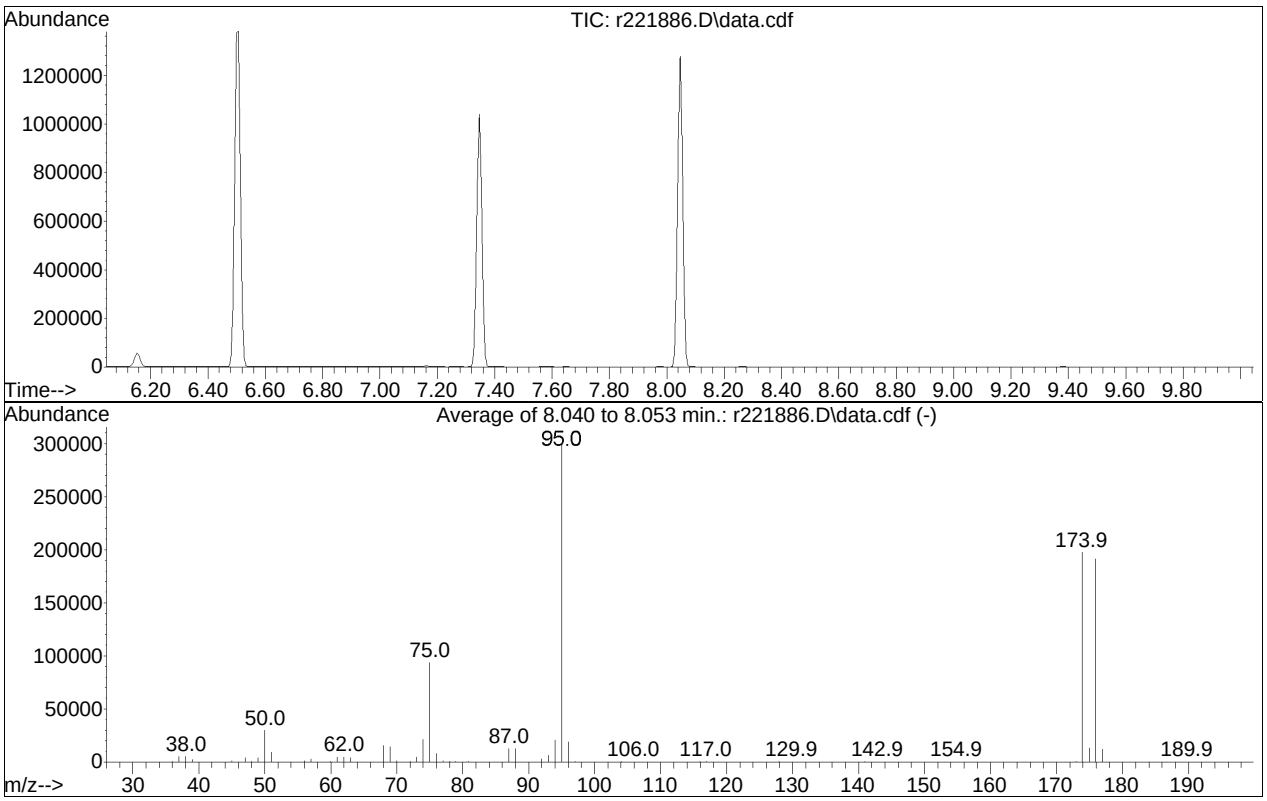
		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)		n-propylbenzene	4.070	4.115	4.111	4.126	4.107	3.859	3.266	2.631	3.785	14.55
95)		4-chlorotoluene	3.344	3.437	3.458	3.445	3.449	3.323	3.047	2.625	3.266	8.96
96)		4-ethyl toluene	1.252	1.213	1.274	1.228	1.190	1.099	0.998	0.813	1.133	13.91
97)		1,3,5-trimethy...	0.989	1.081	1.025	1.017	0.993	0.947	0.743	0.628	0.928	16.95
98)		tert-butylbenzene	1.096	1.101	1.110	1.048	0.992	0.847	0.652	0.530	0.922	24.28
99)		1,2,4-trimethy...	1.047	1.065	1.069	1.029	0.950	0.811	0.623	0.498	0.887	24.93
100)		decane	7.859	8.175	8.209	8.131	7.935	7.298	6.250	5.353	7.401	14.27
101)	C	Benzyl Chloride	4.641	4.817	5.130	5.741	5.952	6.037	5.461	4.800	5.322	10.37
102)		1,3-dichlorobe...	7.098	7.203	7.211	7.377	7.049	6.407	5.194	4.545	6.511	16.38
103)	C	1,4-dichlorobe...	6.741	7.029	7.055	7.078	6.891	6.146	5.169	3.844	6.244	18.72
104)		sec-butylbenzene	1.441	1.491	1.490	1.468	1.421	1.290	1.062	0.868	1.316	17.63
105)		1,2,3-trimethy...	9.624	9.827	9.835	9.215	8.458	7.314	5.650	4.673	8.074	24.79
106)		p-isopropyltol...	1.294	1.334	1.329	1.292	1.189	0.995	0.772	0.620	1.103	25.15
107)		1,2-dichlorobe...	6.451	6.502	6.657	6.812	6.725	6.134	5.231	4.437	6.119	13.83
108)		n-butylbenzene	1.063	1.102	1.108	1.120	1.071	0.953	0.803	0.683	0.988	16.51
109)		indan	1.030	1.068	1.076	1.067	1.026	0.938	0.778	0.645	0.954	16.72
110)		indene	6.703	6.805	7.088	7.245	7.266	6.831	5.966	5.066	6.621	11.35
111)	C	1,2-dibromo-3-...	2.375	2.419	2.375	2.447	2.296	2.047	1.741	1.598	2.162	15.29
112)		undecane	8.191	8.665	8.887	9.249	8.879	7.853	6.546	5.594	7.983	16.07
113)		1,2,4,5-tetram...	1.818	1.902	1.964	1.985	2.065	1.948	1.971	1.971	1.953	3.64
114)		dodecane	7.289	8.482	8.953	9.658	8.665	6.882	5.159	4.381	7.434	25.27
115)	C	1,2,4-trichlor...	4.622	4.975	5.151	5.883	5.741	4.889	3.929	3.268	4.807	18.20
116)		naphthalene	1.145	1.298	1.392	1.458	1.364	1.117	0.853	0.701	1.166	23.16
117)		1,2,3-trichlor...	3.901	4.289	4.554	5.106	4.963	4.358	3.649	3.017	4.229	16.35
118)		benzothiophene	1.970	2.353	2.546	2.871	2.621	2.051	1.488	1.190	2.136	27.06
119)	C	hexachlorobuta...	4.155	4.585	4.470	4.494	4.069	3.271	2.447	2.023	3.689	26.94
120)		2-methylnaphth...			2.760	5.762	6.920	5.902	5.744	4.877	5.328	26.58
121)		1-methylnaphth...			2.786	5.635	6.668	5.879	5.874	5.230	5.345	25.05

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221886.D
Acq On : 29 Nov 2023 8:41 PM
Operator : AIRLAB22:RAY
Sample : WG1858542-1,3,250,250
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Dec 01 08:46:43 2023



Spectrum Information: Average of 8.040 to 8.053 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	9.9	29873	PASS
75	95	30	66	31.2	93793	PASS
95	95	100	100	100.0	300807	PASS
96	95	5	9	6.4	19360	PASS
173	174	0.00	2	0.4	812	PASS
174	95	50	120	65.7	197760	PASS
175	174	4	9	6.9	13567	PASS
176	174	93	101	96.6	191127	PASS
177	176	5	9	6.5	12433	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221890.D
Acq On : 29 Nov 2023 10:39 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:51 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	189658	10.000	ppbV	0.01
Standard Area = 192875			Recovery = 98.33%			
43) 1,4-difluorobenzene	5.377	114	652716	10.000	ppbV	0.01
Standard Area = 676282			Recovery = 96.52%			
67) chlorobenzene-D5	7.347	54	71294	10.000	ppbV	0.00
Standard Area = 69834			Recovery = 102.09%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	189189	11.097	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.97%			
69) toluene-D8	6.500	98	767278	9.632	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.32%			
90) bromofluorobenzene	8.047	95	451544	9.534	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.34%			
Target Compounds						Qvalue
2) chlorodifluoromethane	2.135	51	2392M6	0.160	ppbV	
3) propylene	2.155	41	2344M6	0.169	ppbV	
4) propane	2.170	29	2892	0.325	ppbV #	73
5) dichlorodifluoromethane	2.195	85	3625	0.214	ppbV	94
6) chloromethane	2.300	50	1839	0.215	ppbV	96
7) Freon-114	2.360	85	5335	0.223	ppbV	98
8) methanol	2.390	31	4865	1.373	ppbV #	1
9) vinyl chloride	2.435	62	2345	0.190	ppbV	90
10) 1,3-butadiene	2.505	54	1752	0.201	ppbV #	78
11) butane	2.530	43	2923	0.176	ppbV #	96
12) acetaldehyde	2.375	29	5778	1.230	ppbV #	82
13) bromomethane	2.630	94	1778	0.216	ppbV	98
14) chloroethane	2.705	64	918	0.180	ppbV	92
15) ethanol	2.750	31	5445	1.350	ppbV	92
16) dichlorofluoromethane	2.745	67	3326	0.198	ppbV #	95
17) vinyl bromide	2.863	106	1592	0.205	ppbV	94
18) acrolein	2.911	56	723	0.199	ppbV #	1
19) acetone	2.974	43	7088	0.813	ppbV #	84
20) acetonitrile	2.851	41	1362	0.164	ppbV #	1
21) trichlorofluoromethane	3.055	101	1882	0.189	ppbV	95
22) isopropyl alcohol	3.085	45	6008	0.436	ppbV #	97
23) acrylonitrile	3.187	53	1503	0.213	ppbV	93
24) pentane	3.223	43	2944	0.165	ppbV #	90

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221890.D
Acq On : 29 Nov 2023 10:39 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:51 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.232	31	2024	0.208	ppbV	95
26) 1,1-dichloroethene	3.355	61	3315	0.184	ppbV	92
27) tertiary butyl alcohol	3.380	59	4895	0.199	ppbV #	94
28) methylene chloride	3.415	49	3822	0.248	ppbV	85
29) 3-chloropropene	3.470	41	4469	0.191	ppbV	97
30) carbon disulfide	3.560	76	9383	0.217	ppbV #	78
31) Freon 113	3.540	101	5297	0.219	ppbV	97
32) trans-1,2-dichloroethene	3.863	61	4593	0.214	ppbV	97
33) 1,1-dichloroethane	3.963	63	5434	0.202	ppbV	97
34) MTBE	3.997	73	7869	0.209	ppbV	98
35) vinyl acetate	4.037	43	5977	0.221	ppbV	99
36) 2-butanone	4.157	43	6442	0.202	ppbV	98
37) cis-1,2-dichloroethene	4.370	61	4008	0.203	ppbV	98
38) Ethyl Acetate	4.477	61	1108	0.210	ppbV	93
39) chloroform	4.510	83	4984	0.210	ppbV #	96
40) Tetrahydrofuran	4.710	42	4312	0.192	ppbV	96
41) 2,2-dichloropropane	4.523	77	4064	0.227	ppbV	95
42) 1,2-dichloroethane	4.870	62	3272	0.243	ppbV	99
44) hexane	4.470	57	5679	0.227	ppbV	88
45) diisopropyl ether	4.470	87	3400	0.232	ppbV	79
46) tert-butyl ethyl ether	4.730	59	9879	0.224	ppbV	97
48) 1,1,1-trichloroethane	4.990	97	4198	0.254	ppbV	97
49) 1,1-dichloropropene	5.143	75	4403	0.231	ppbV	95
50) benzene	5.210	78	11095	0.227	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	3805	0.247	ppbV	99
53) cyclohexane	5.343	56	6449	0.228	ppbV	100
54) tert-amyl methyl ether	5.497	73	9870	0.250	ppbV	98
55) dibromomethane	5.583	93	2832	0.252	ppbV	97
56) 1,2-dichloropropane	5.597	63	3656	0.229	ppbV	98
57) bromodichloromethane	5.690	83	4937	0.239	ppbV	96
58) 1,4-dioxane	5.717	88	2584	0.244	ppbV #	81
59) trichloroethene	5.710	130	4532	0.240	ppbV	98
60) 2,2,4-trimethylpentane	5.723	57	17538	0.230	ppbV	99
61) methyl methacrylate	5.797	41	3690	0.229	ppbV	92
62) heptane	5.843	43	6791	0.225	ppbV	99
63) cis-1,3-dichloropropene	6.107	75	5190	0.242	ppbV	94
64) 4-methyl-2-pentanone	6.127	43	8784	0.272	ppbV	97
65) trans-1,3-dichloropropene	6.340	75	4273	0.250	ppbV	93
66) 1,1,2-trichloroethane	6.420	97	3910	0.245	ppbV	91

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221890.D
Acq On : 29 Nov 2023 10:39 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:51 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	6.547	91	13344	0.221	ppbV	96
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	6.560	76	5986	0.237	ppbV #	93
72) 2-hexanone	6.667	43	7172	0.208	ppbV	96
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	6.740	129	5230	0.236	ppbV	99
75) 1,2-dibromoethane	6.853	107	5545	0.223	ppbV	99
76) butyl acetate	6.947	73	1620	0.212	ppbV	92
77) octane	6.987	85	5236	0.209	ppbV	94
78) tetrachloroethene	7.060	166	5103	0.213	ppbV #	92
79) 1,1,1,2-tetrachloroethane	7.360	131	4212	0.238	ppbV	96
80) chlorobenzene	7.367	112	10208	0.221	ppbV	96
81) ethylbenzene	7.533	91	15612	0.215	ppbV	99
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	7.613	91	25572	0.450	ppbV	98
84) bromoform	7.653	173	4282	0.228	ppbV	99
85) styrene	7.780	104	10238	0.208	ppbV	99
86) 1,1,2,2-tetrachloroethane	7.827	83	8375	0.223	ppbV	99
87) o-xylene	7.833	91	12800	0.232	ppbV	99
88) 1,2,3-trichloropropane	7.893	75	6497	0.228	ppbV	97
89) nonane	7.927	43	9695	0.216	ppbV	95
91) isopropylbenzene	8.107	105	16660	0.226	ppbV	96
92) bromobenzene	8.160	77	9137	0.233	ppbV	88
93) 2-chlorotoluene	8.347	126	5088M3	0.218	ppbV	
94) n-propylbenzene	8.360	120	5803	0.213	ppbV	87
95) 4-chlorotoluene	8.380	126	4768	0.211	ppbV	96
96) 4-ethyl toluene	8.433	105	17846	0.231	ppbV	96
97) 1,3,5-trimethylbenzene	8.467	105	14096	0.213	ppbV	93
98) tert-butylbenzene	8.677	119	15625	0.230	ppbV	98
99) 1,2,4-trimethylbenzene	8.677	105	14935	0.241	ppbV	93
100) decane	8.723	57	11206	0.206	ppbV	97
101) Benzyl Chloride	8.750	91	6617	0.180	ppbV	99
102) 1,3-dichlorobenzene	8.763	146	10121	0.223	ppbV #	96
103) 1,4-dichlorobenzene	8.797	146	9612M3	0.226	ppbV	
104) sec-butylbenzene	8.817	105	20546	0.226	ppbV	98
105) 1,2,3-trimethylbenzene	8.897	105	13722	0.244	ppbV	92
106) p-isopropyltoluene	8.897	119	18457	0.228	ppbV	98
107) 1,2-dichlorobenzene	8.970	146	9198	0.217	ppbV	99
108) n-butylbenzene	9.110	91	15163	0.218	ppbV	97
109) indan	9.003	117	14691	0.214	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221890.D
Acq On : 29 Nov 2023 10:39 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:51 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

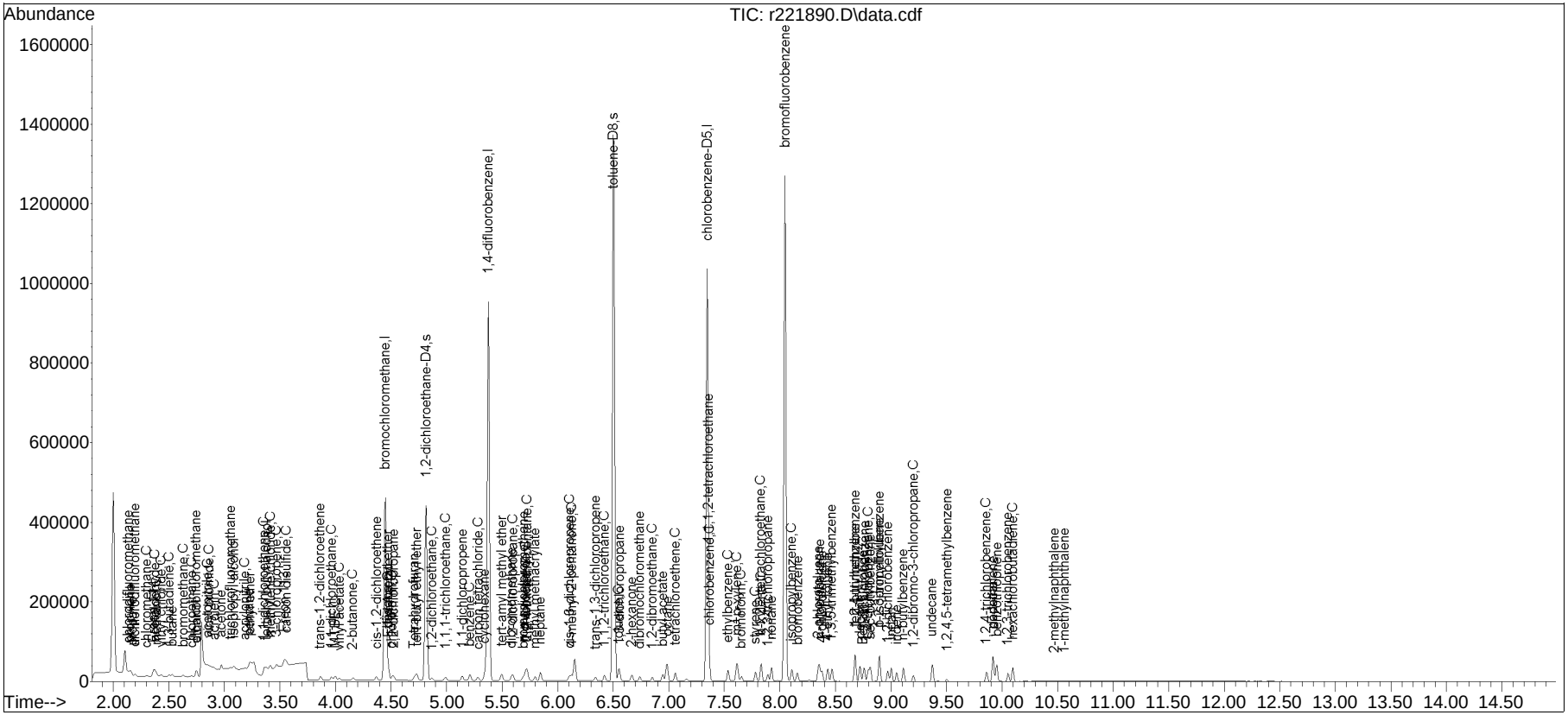
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	9.050	115	9558	0.202	ppbV		97
111) 1,2-dibromo-3-chloropr...	9.203	75	3386	0.242	ppbV	#	76
112) undecane	9.370	57	11680	0.198	ppbV		96
113) 1,2,4,5-tetramethylben...	9.503	119	2592	0.189	ppbV	#	97
114) dodecane	9.918	57	10393	0.184	ppbV		96
115) 1,2,4-trichlorobenzene	9.857	180	6591	0.180	ppbV		92
116) naphthalene	9.918	128	16327	0.181	ppbV	#	94
117) 1,2,3-trichlorobenzene	10.053	180	5562	0.174	ppbV		94
118) benzothiophene	9.955	134	28094	0.179	ppbV		99
119) hexachlorobutadiene	10.098	225	5924	0.204	ppbV	#	92
120) 2-methylnaphthalene	10.473	142	303	0.008	ppbV	#	83
121) 1-methylnaphthalene	10.563	142	311	0.008	ppbV	#	86

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

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221890.D
Acq On : 29 Nov 2023 10:39 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:51 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

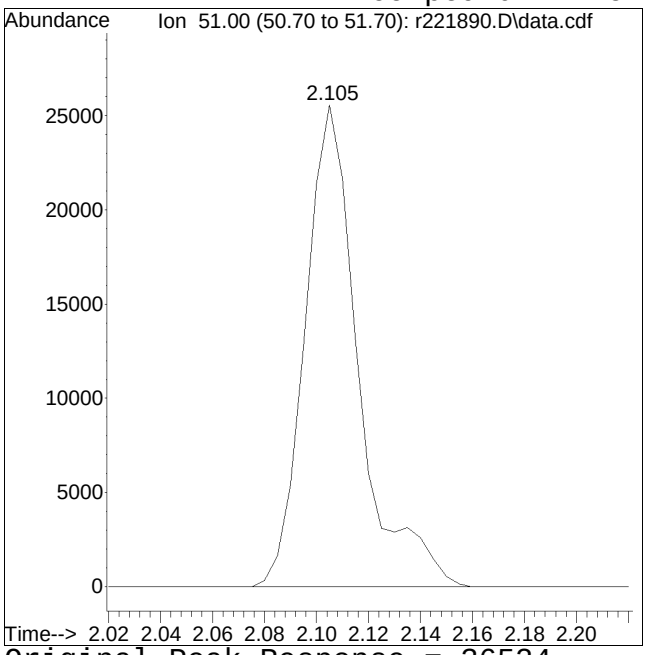


Manual Integration Report

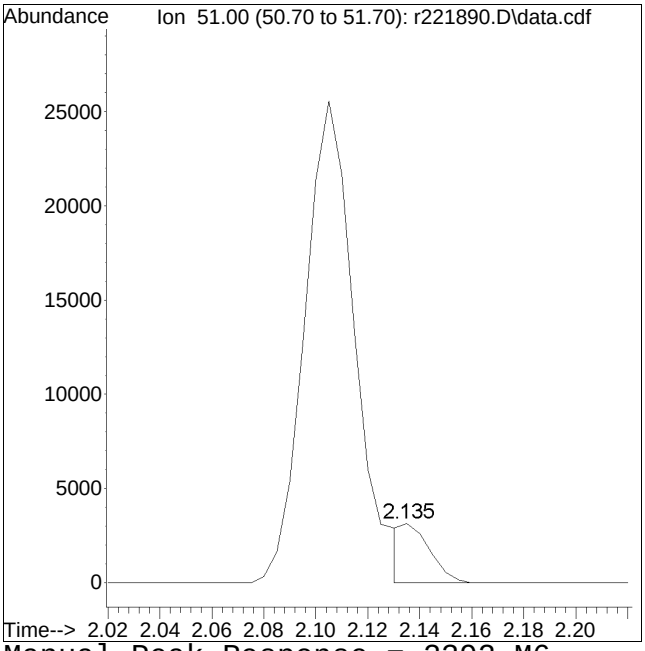
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221890.D
Date Inj'd : 11/29/2020 0:0: 9
Sample : ITO15-SIMSTD0.2

Method : TFS22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:36 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 36524



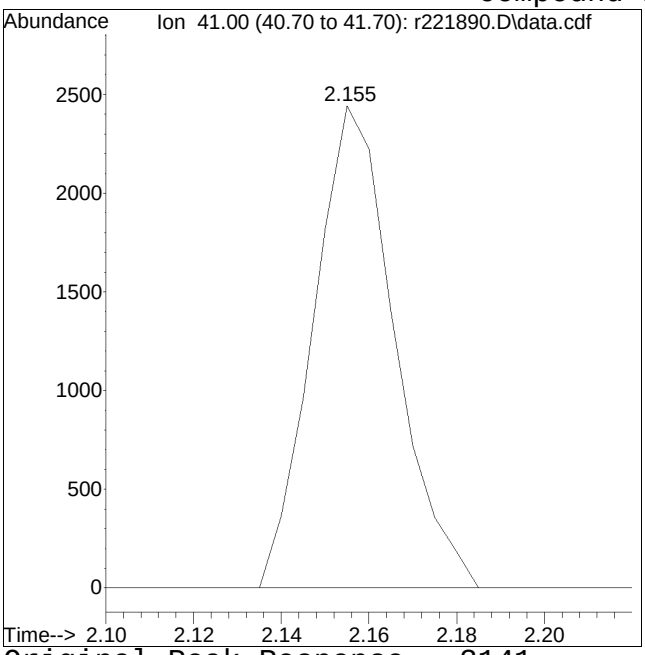
Manual Peak Response = 2392 M6

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

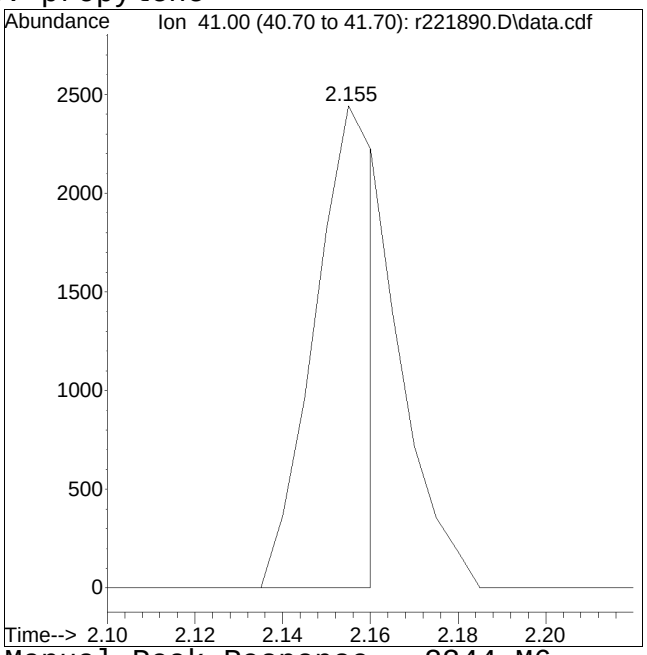
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221890.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 11/30/2023 12:36 pm

Compound #3: propylene



Original Peak Response = 3141



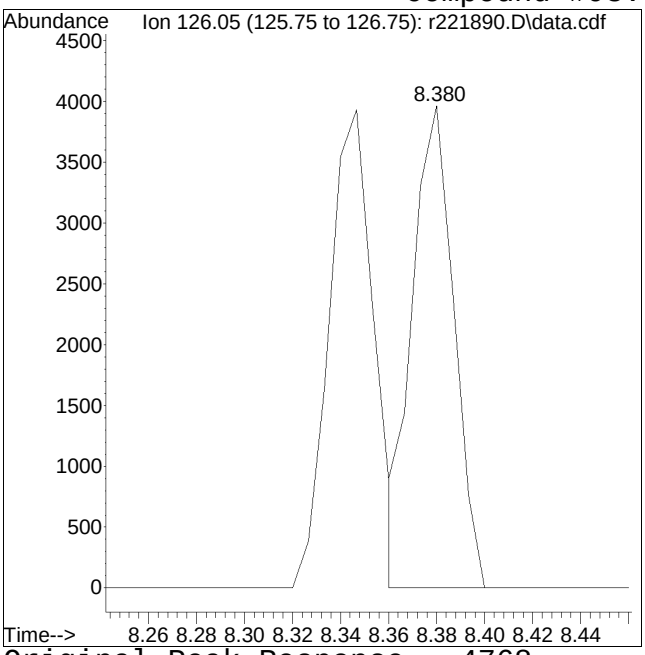
Manual Peak Response = 2344 M6

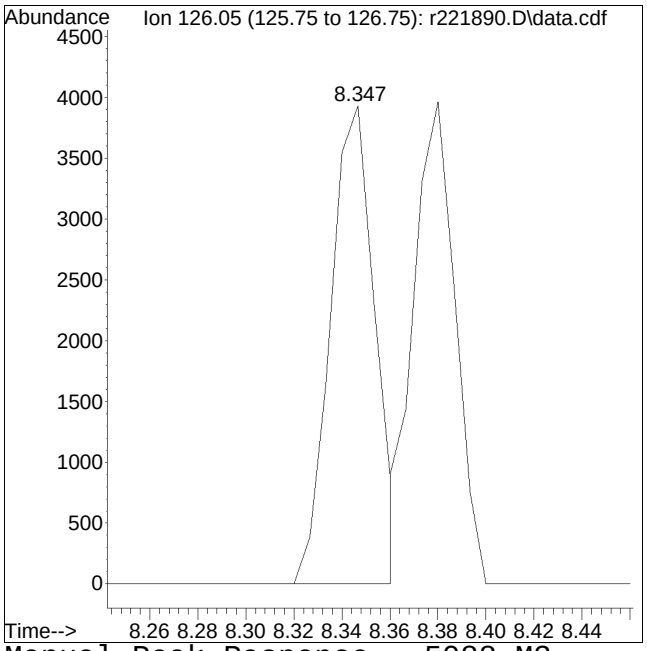
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221890.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 11/30/2023 12:36 pm

Compound #93: 2-chlorotoluene





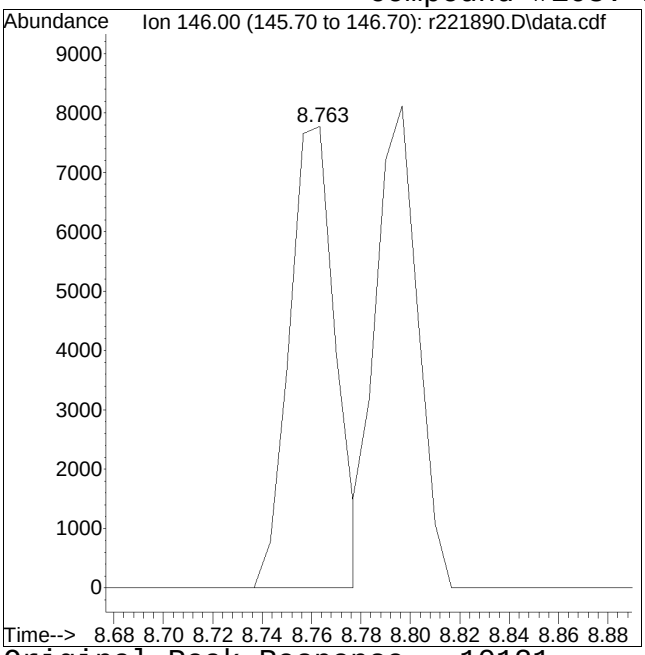
Original Peak Response = 4768 Manual Peak Response = 5088 M3

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

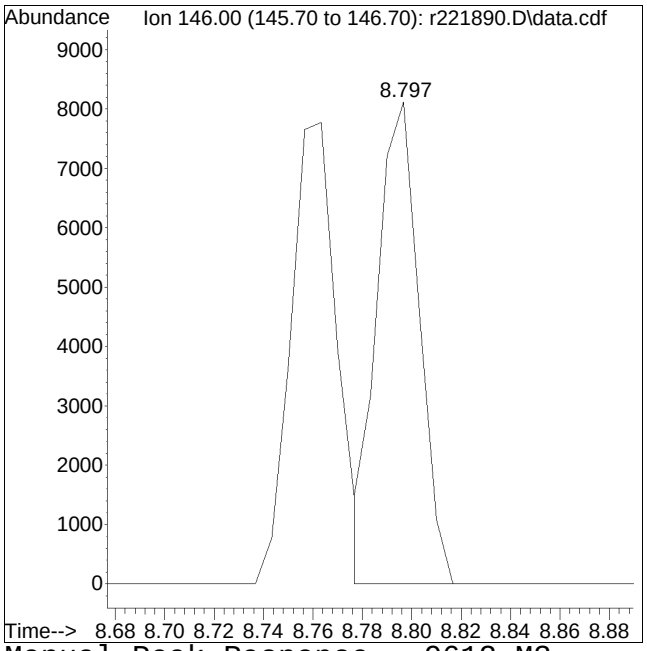
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221890.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 11/30/2023 12:36 pm

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 10121



Manual Peak Response = 9612 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221891.D
Acq On : 29 Nov 2023 11:11 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:59 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	188670	10.000	ppbV	0.01
Standard Area = 192875			Recovery = 97.82%			
43) 1,4-difluorobenzene	5.377	114	654198	10.000	ppbV	0.01
Standard Area = 676282			Recovery = 96.73%			
67) chlorobenzene-D5	7.347	54	70758	10.000	ppbV	0.00
Standard Area = 69834			Recovery = 101.32%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	188528	11.034	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.34%			
69) toluene-D8	6.500	98	754778	9.547	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.47%			
90) bromofluorobenzene	8.047	95	436125	9.278	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.78%			
Target Compounds						Qvalue
2) chlorodifluoromethane	2.135	51	6874M6	0.463	ppbV	
3) propylene	2.160	41	5591M6	0.404	ppbV	
4) propane	2.170	29	5737	0.647	ppbV #	87
5) dichlorodifluoromethane	2.200	85	9017	0.535	ppbV	98
6) chloromethane	2.305	50	4317	0.506	ppbV	98
7) Freon-114	2.365	85	13115	0.550	ppbV	97
8) methanol	2.390	31	11317	3.210	ppbV #	24
9) vinyl chloride	2.435	62	5840	0.477	ppbV	94
10) 1,3-butadiene	2.505	54	4257	0.491	ppbV #	80
11) butane	2.530	43	6945	0.421	ppbV	95
12) acetaldehyde	2.375	29	13061	2.795	ppbV	94
13) bromomethane	2.630	94	4283	0.524	ppbV	97
14) chloroethane	2.705	64	2215	0.436	ppbV	98
15) ethanol	2.750	31	10956	2.731	ppbV	90
16) dichlorofluoromethane	2.745	67	8466	0.508	ppbV	98
17) vinyl bromide	2.863	106	3809	0.492	ppbV	95
18) acrolein	2.911	56	1773	0.490	ppbV #	1
19) acetone	2.971	43	17347	2.000	ppbV #	86
20) acetonitrile	2.848	41	3212	0.389	ppbV #	7
21) trichlorofluoromethane	3.055	101	4546	0.458	ppbV	99
22) isopropyl alcohol	3.082	45	14445	1.054	ppbV	99
23) acrylonitrile	3.187	53	3393	0.483	ppbV	97
24) pentane	3.220	43	7157	0.403	ppbV #	89

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221891.D
Acq On : 29 Nov 2023 11:11 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:59 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.229	31	4564	0.471	ppbV	95
26) 1,1-dichloroethene	3.355	61	9070	0.506	ppbV	97
27) tertiary butyl alcohol	3.380	59	12248	0.501	ppbV	96
28) methylene chloride	3.410	49	8534	0.557	ppbV	95
29) 3-chloropropene	3.470	41	10841	0.465	ppbV	98
30) carbon disulfide	3.555	76	23119	0.538	ppbV #	92
31) Freon 113	3.540	101	12781	0.531	ppbV	98
32) trans-1,2-dichloroethene	3.863	61	10688	0.501	ppbV	96
33) 1,1-dichloroethane	3.963	63	13406	0.501	ppbV	96
34) MTBE	3.997	73	19691	0.525	ppbV	98
35) vinyl acetate	4.030	43	14581	0.542	ppbV	98
36) 2-butanone	4.157	43	16007	0.505	ppbV	99
37) cis-1,2-dichloroethene	4.370	61	9680	0.493	ppbV	98
38) Ethyl Acetate	4.477	61	2587	0.494	ppbV	86
39) chloroform	4.510	83	12432	0.525	ppbV	98
40) Tetrahydrofuran	4.710	42	10662	0.478	ppbV	97
41) 2,2-dichloropropane	4.523	77	9495	0.534	ppbV	97
42) 1,2-dichloroethane	4.863	62	7218	0.539	ppbV	97
44) hexane	4.470	57	13510	0.538	ppbV	97
45) diisopropyl ether	4.470	87	8386	0.571	ppbV	78
46) tert-butyl ethyl ether	4.730	59	24586	0.557	ppbV	98
48) 1,1,1-trichloroethane	4.990	97	10324	0.623	ppbV	97
49) 1,1-dichloropropene	5.143	75	10802	0.565	ppbV	92
50) benzene	5.210	78	27024	0.552	ppbV	98
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	9287	0.600	ppbV	98
53) cyclohexane	5.343	56	14877	0.526	ppbV	99
54) tert-amyl methyl ether	5.490	73	23656	0.599	ppbV	98
55) dibromomethane	5.583	93	6976	0.618	ppbV	93
56) 1,2-dichloropropane	5.597	63	8998	0.563	ppbV	99
57) bromodichloromethane	5.690	83	12492	0.602	ppbV	99
58) 1,4-dioxane	5.710	88	6086	0.574	ppbV	89
59) trichloroethene	5.710	130	11180	0.592	ppbV	97
60) 2,2,4-trimethylpentane	5.723	57	43611	0.569	ppbV	99
61) methyl methacrylate	5.797	41	8848	0.548	ppbV	93
62) heptane	5.843	43	16786	0.555	ppbV	97
63) cis-1,3-dichloropropene	6.100	75	13110	0.611	ppbV	92
64) 4-methyl-2-pentanone	6.120	43	20062	0.620	ppbV	97
65) trans-1,3-dichloropropene	6.340	75	10604	0.619	ppbV	94
66) 1,1,2-trichloroethane	6.420	97	9661	0.603	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221891.D
Acq On : 29 Nov 2023 11:11 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:59 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	6.547	91	32352	0.540	ppbV	98
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	6.560	76	14483	0.579	ppbV	95
72) 2-hexanone	6.667	43	18260	0.535	ppbV	96
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	6.740	129	12901	0.587	ppbV	99
75) 1,2-dibromoethane	6.853	107	13895	0.564	ppbV	99
76) butyl acetate	6.947	73	4020	0.530	ppbV	93
77) octane	6.987	85	13272	0.534	ppbV	97
78) tetrachloroethene	7.060	166	12643	0.532	ppbV	95
79) 1,1,1,2-tetrachloroethane	7.360	131	10329	0.588	ppbV	98
80) chlorobenzene	7.367	112	25592	0.560	ppbV	97
81) ethylbenzene	7.533	91	38390	0.532	ppbV	98
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	7.613	91	63766	1.131	ppbV	99
84) bromoform	7.653	173	10660	0.571	ppbV	97
85) styrene	7.780	104	25598	0.523	ppbV	98
86) 1,1,2,2-tetrachloroethane	7.827	83	20920	0.562	ppbV	99
87) o-xylene	7.833	91	31632	0.578	ppbV	99
88) 1,2,3-trichloropropane	7.893	75	16604	0.587	ppbV	93
89) nonane	7.927	43	24254	0.543	ppbV	96
91) isopropylbenzene	8.107	105	41373	0.565	ppbV	95
92) bromobenzene	8.160	77	22240	0.571	ppbV	86
93) 2-chlorotoluene	8.347	126	12289M3	0.532	ppbV	
94) n-propylbenzene	8.360	120	14558	0.538	ppbV	89
95) 4-chlorotoluene	8.380	126	12161	0.543	ppbV	93
96) 4-ethyl toluene	8.433	105	42917	0.560	ppbV	95
97) 1,3,5-trimethylbenzene	8.467	105	38258	0.583	ppbV	93
98) tert-butylbenzene	8.677	119	38953	0.578	ppbV	99
99) 1,2,4-trimethylbenzene	8.677	105	37690	0.612	ppbV	95
100) decane	8.723	57	28923	0.534	ppbV	97
101) Benzyl Chloride	8.750	91	17043	0.466	ppbV	98
102) 1,3-dichlorobenzene	8.757	146	25485	0.566	ppbV	98
103) 1,4-dichlorobenzene	8.797	146	24867	0.590	ppbV	96
104) sec-butylbenzene	8.817	105	52745	0.584	ppbV	97
105) 1,2,3-trimethylbenzene	8.897	105	34767	0.623	ppbV	94
106) p-isopropyltoluene	8.897	119	47200	0.588	ppbV	97
107) 1,2-dichlorobenzene	8.970	146	23005	0.548	ppbV	97
108) n-butylbenzene	9.110	91	38988	0.564	ppbV	97
109) indan	9.003	117	37787	0.555	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221891.D
Acq On : 29 Nov 2023 11:11 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:59 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

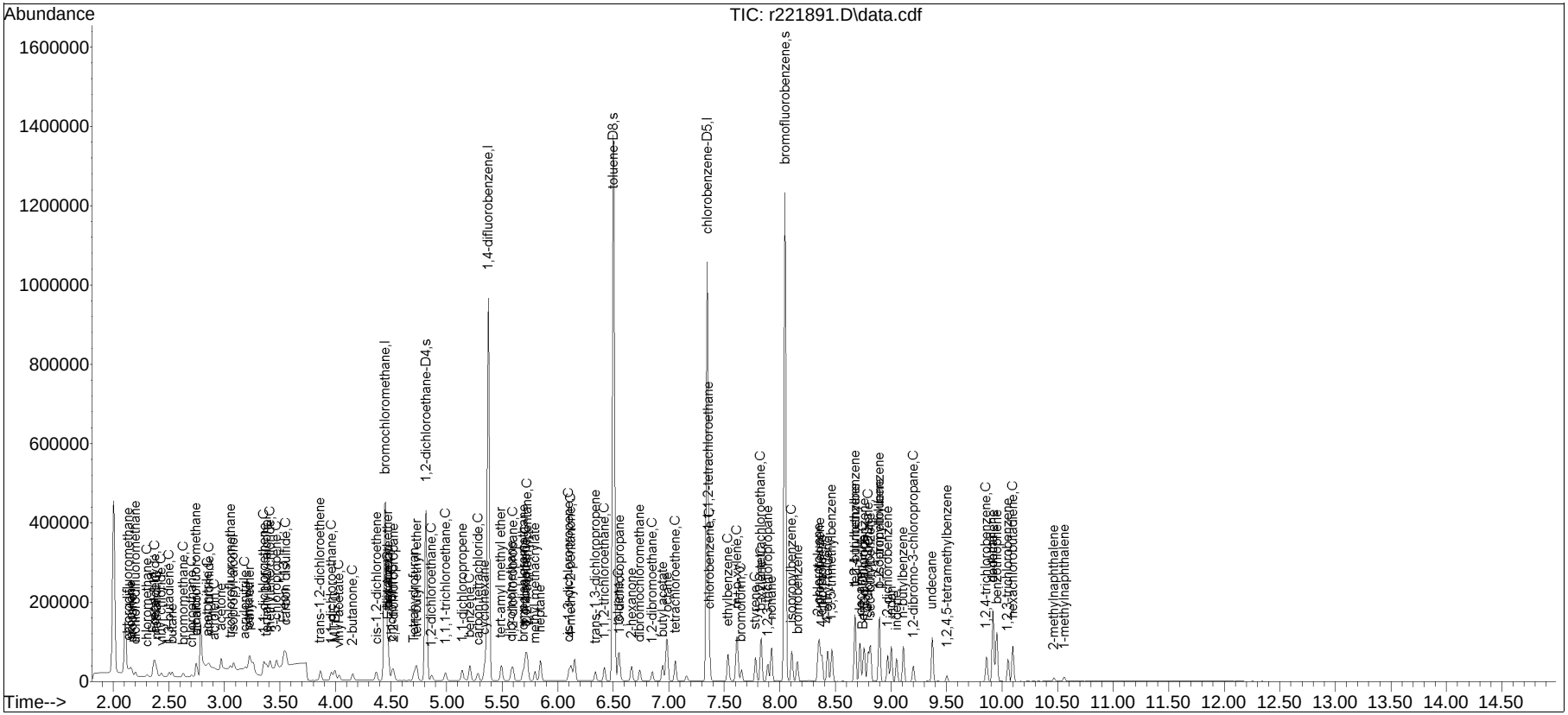
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	9.050	115	24076	0.514	ppbV		98
111) 1,2-dibromo-3-chloropr...	9.203	75	8558	0.616	ppbV	#	77
112) undecane	9.370	57	30655	0.522	ppbV		96
113) 1,2,4,5-tetramethylben...	9.503	119	6728	0.494	ppbV		100
114) dodecane	9.918	57	30009	0.535	ppbV		97
115) 1,2,4-trichlorobenzene	9.857	180	17600	0.484	ppbV		94
116) naphthalene	9.918	128	45930	0.514	ppbV	#	95
117) 1,2,3-trichlorobenzene	10.053	180	15174	0.477	ppbV	#	93
118) benzothiophene	9.955	134	83262	0.534	ppbV		99
119) hexachlorobutadiene	10.098	225	16220	0.564	ppbV	#	90
120) 2-methylnaphthalene	10.465	142	4683	0.122	ppbV		98
121) 1-methylnaphthalene	10.563	142	5298	0.138	ppbV		96

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

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221891.D
Acq On : 29 Nov 2023 11:11 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:59 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

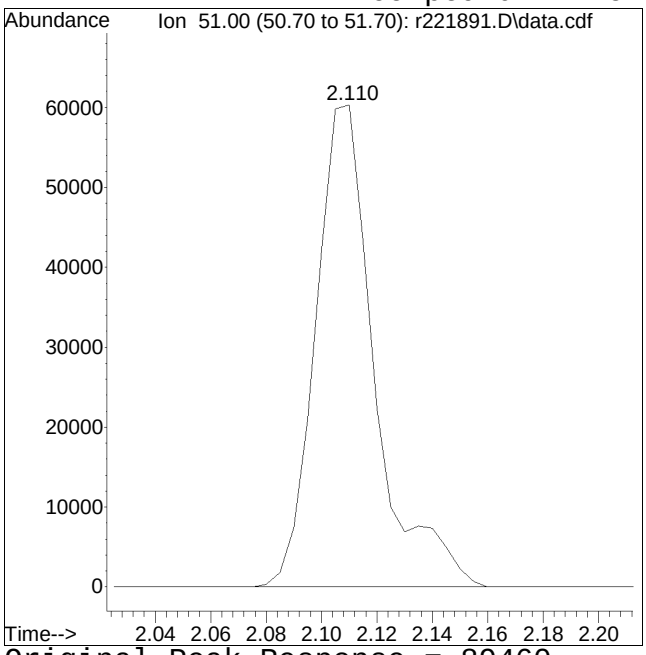


Manual Integration Report

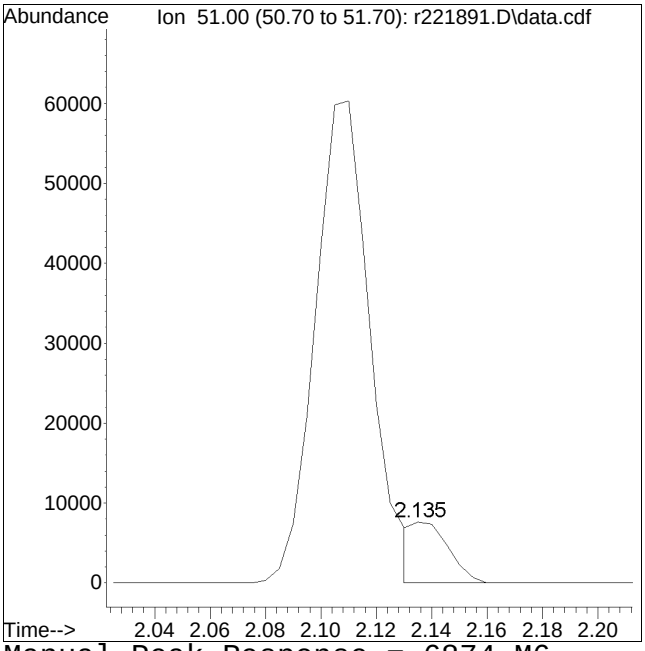
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221891.D
Date Inj'd : 11/29/2020 0:1: 1
Sample : ITO15-SIMSTD0.5

Method : TFS22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:36 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 89460



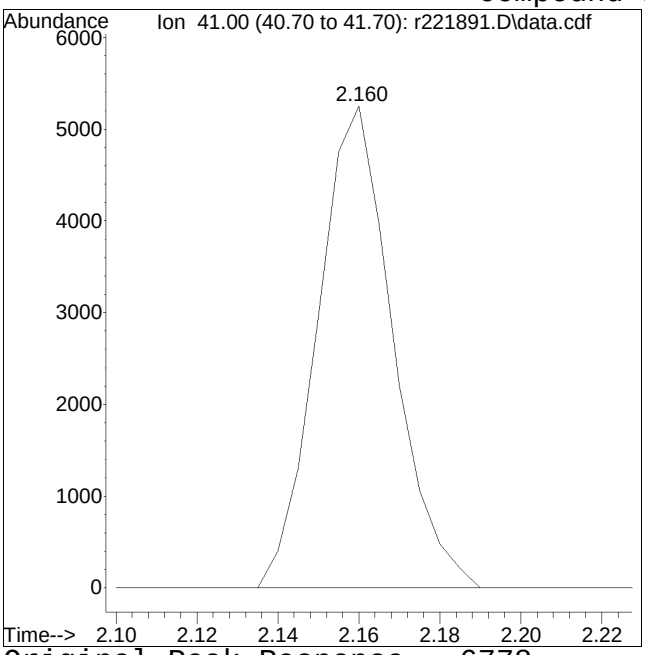
Manual Peak Response = 6874 M6

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

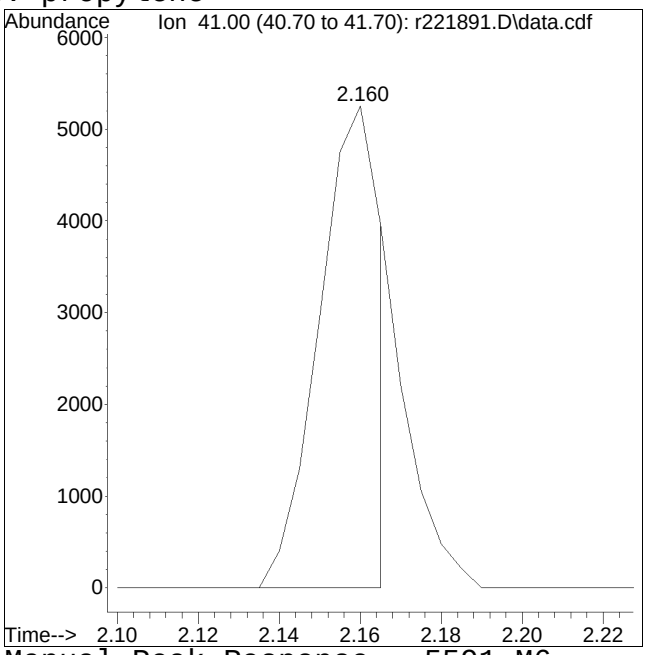
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221891.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/30/2023 12:36 pm

Compound #3: propylene



Original Peak Response = 6778



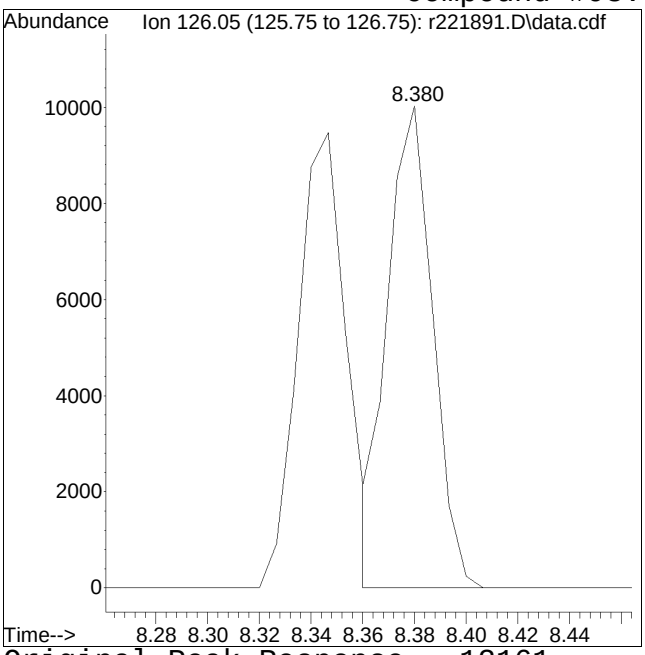
Manual Peak Response = 5591 M6

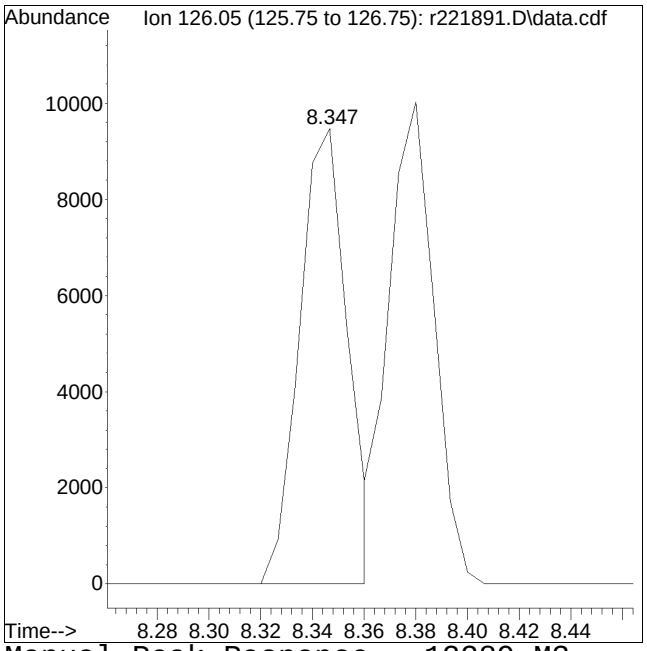
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221891.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/30/2023 12:36 pm

Compound #93: 2-chlorotoluene





Original Peak Response = 12161 Manual Peak Response = 12289 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221892.D
Acq On : 29 Nov 2023 11:44 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:07 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	188838	10.000	ppbV	0.01
Standard Area = 192875			Recovery = 97.91%			
43) 1,4-difluorobenzene	5.377	114	650210	10.000	ppbV	0.01
Standard Area = 676282			Recovery = 96.14%			
67) chlorobenzene-D5	7.347	54	70057	10.000	ppbV	0.00
Standard Area = 69834			Recovery = 100.32%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	190281	11.204	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.04%			
69) toluene-D8	6.507	98	772337	9.867	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.67%			
90) bromofluorobenzene	8.047	95	451452	9.700	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue
2) chlorodifluoromethane	2.140	51	15248M6	1.027	ppbV	
3) propylene	2.160	41	10155M6	0.734	ppbV	
4) propane	2.175	29	9435	1.064	ppbV #	86
5) dichlorodifluoromethane	2.200	85	16954	1.006	ppbV	99
6) chloromethane	2.305	50	8619	1.010	ppbV	99
7) Freon-114	2.365	85	25786	1.081	ppbV	99
8) methanol	2.390	31	21290	6.033	ppbV #	58
9) vinyl chloride	2.435	62	11480	0.936	ppbV	98
10) 1,3-butadiene	2.505	54	8488	0.978	ppbV	81
11) butane	2.535	43	13911	0.842	ppbV	97
12) acetaldehyde	2.380	29	24664	5.273	ppbV	93
13) bromomethane	2.635	94	8345	1.020	ppbV	97
14) chloroethane	2.710	64	4383	0.861	ppbV	96
15) ethanol	2.755	31	17522	4.364	ppbV	89
16) dichlorofluoromethane	2.750	67	14712	0.881	ppbV	100
17) vinyl bromide	2.866	106	7658	0.989	ppbV	99
18) acrolein	2.914	56	3552	0.981	ppbV #	47
19) acetone	2.974	43	34293	3.951	ppbV #	84
20) acetonitrile	2.854	41	6165	0.746	ppbV #	53
21) trichlorofluoromethane	3.058	101	8850	0.891	ppbV	96
22) isopropyl alcohol	3.085	45	26351	1.921	ppbV #	97
23) acrylonitrile	3.190	53	6771	0.962	ppbV	98
24) pentane	3.226	43	13686	0.771	ppbV #	92

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221892.D
Acq On : 29 Nov 2023 11:44 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:07 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.235	31	8675	0.894	ppbV	96
26) 1,1-dichloroethene	3.360	61	18028	1.005	ppbV	98
27) tertiary butyl alcohol	3.380	59	22914	0.937	ppbV	98
28) methylene chloride	3.415	49	16719	1.090	ppbV	94
29) 3-chloropropene	3.475	41	21698	0.930	ppbV	98
30) carbon disulfide	3.560	76	45862	1.067	ppbV	96
31) Freon 113	3.540	101	25502	1.058	ppbV	97
32) trans-1,2-dichloroethene	3.870	61	20950	0.980	ppbV	98
33) 1,1-dichloroethane	3.963	63	26835	1.002	ppbV	99
34) MTBE	3.997	73	39095	1.042	ppbV	96
35) vinyl acetate	4.037	43	30137	1.120	ppbV	97
36) 2-butanone	4.157	43	31284	0.987	ppbV	97
37) cis-1,2-dichloroethene	4.370	61	19181	0.977	ppbV	96
38) Ethyl Acetate	4.477	61	5336	1.018	ppbV	91
39) chloroform	4.510	83	24580	1.038	ppbV	97
40) Tetrahydrofuran	4.710	42	20574	0.921	ppbV	93
41) 2,2-dichloropropane	4.523	77	19072	1.072	ppbV	97
42) 1,2-dichloroethane	4.870	62	13901	1.037	ppbV	97
44) hexane	4.470	57	26959	1.080	ppbV	96
45) diisopropyl ether	4.470	87	16707	1.144	ppbV	83
46) tert-butyl ethyl ether	4.730	59	48308	1.101	ppbV	98
48) 1,1,1-trichloroethane	4.990	97	20486	1.243	ppbV	97
49) 1,1-dichloropropene	5.143	75	21524	1.133	ppbV	92
50) benzene	5.210	78	53331	1.097	ppbV	100
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	18900	1.229	ppbV	99
53) cyclohexane	5.343	56	29447M6	1.047	ppbV	
54) tert-amyl methyl ether	5.497	73	46886	1.194	ppbV	98
55) dibromomethane	5.583	93	13527	1.206	ppbV	96
56) 1,2-dichloropropane	5.597	63	17878	1.126	ppbV	98
57) bromodichloromethane	5.690	83	24979	1.212	ppbV	98
58) 1,4-dioxane	5.710	88	11693	1.109	ppbV	96
59) trichloroethene	5.710	130	22016	1.172	ppbV	96
60) 2,2,4-trimethylpentane	5.723	57	86093	1.131	ppbV	99
61) methyl methacrylate	5.797	41	17610	1.098	ppbV	92
62) heptane	5.843	43	33248	1.106	ppbV	97
63) cis-1,3-dichloropropene	6.107	75	25838	1.211	ppbV	94
64) 4-methyl-2-pentanone	6.120	43	38996	1.212	ppbV	97
65) trans-1,3-dichloropropene	6.340	75	21056	1.236	ppbV	93
66) 1,1,2-trichloroethane	6.420	97	18750	1.178	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221892.D
Acq On : 29 Nov 2023 11:44 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:07 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	6.547	91	63582	1.072	ppbV		98
70) 2-methylthiophene	0.000		0	N.D.	d		
71) 1,3-dichloropropane	6.560	76	28353	1.144	ppbV		95
72) 2-hexanone	6.667	43	36902	1.091	ppbV		95
73) 3-methylthiophene	0.000		0	N.D.	d		
74) dibromochloromethane	6.740	129	25142	1.156	ppbV		99
75) 1,2-dibromoethane	6.853	107	27212	1.116	ppbV		99
76) butyl acetate	6.947	73	8196	1.092	ppbV		95
77) octane	6.987	85	26507	1.077	ppbV		97
78) tetrachloroethene	7.060	166	24632	1.046	ppbV		94
79) 1,1,1,2-tetrachloroethane	7.360	131	20406	1.173	ppbV		97
80) chlorobenzene	7.367	112	49882	1.101	ppbV		96
81) ethylbenzene	7.533	91	77179	1.081	ppbV		99
82) 2-ethylthiophene	0.000		0	N.D.	d		
83) m+p-xylene	7.613	91	125832	2.254	ppbV		99
84) bromoform	7.653	173	21215	1.148	ppbV		98
85) styrene	7.780	104	51810	1.070	ppbV		99
86) 1,1,2,2-tetrachloroethane	7.827	83	41464	1.124	ppbV		99
87) o-xylene	7.833	91	62545	1.153	ppbV		100
88) 1,2,3-trichloropropane	7.893	75	32323	1.153	ppbV		94
89) nonane	7.927	43	48350	1.094	ppbV		97
91) isopropylbenzene	8.107	105	82507	1.138	ppbV		96
92) bromobenzene	8.160	77	44492	1.155	ppbV		87
93) 2-chlorotoluene	8.347	126	24374M3	1.065	ppbV		
94) n-propylbenzene	8.360	120	28800	1.075	ppbV		93
95) 4-chlorotoluene	8.380	126	24226	1.093	ppbV		94
96) 4-ethyl toluene	8.433	105	89243	1.177	ppbV		96
97) 1,3,5-trimethylbenzene	8.467	105	71781	1.105	ppbV		94
98) tert-butylbenzene	8.677	119	77758	1.165	ppbV		98
99) 1,2,4-trimethylbenzene	8.677	105	74915	1.229	ppbV		94
100) decane	8.723	57	57511	1.073	ppbV		96
101) Benzyl Chloride	8.750	91	35936	0.993	ppbV		97
102) 1,3-dichlorobenzene	8.763	146	50515	1.134	ppbV	#	93
103) 1,4-dichlorobenzene	8.797	146	49424	1.184	ppbV		96
104) sec-butylbenzene	8.817	105	104394	1.167	ppbV		98
105) 1,2,3-trimethylbenzene	8.897	105	68900	1.247	ppbV		94
106) p-isopropyltoluene	8.897	119	93127	1.173	ppbV		98
107) 1,2-dichlorobenzene	8.970	146	46636	1.122	ppbV		99
108) n-butylbenzene	9.110	91	77634	1.135	ppbV		97
109) indan	9.003	117	75377	1.119	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221892.D
Acq On : 29 Nov 2023 11:44 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:07 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

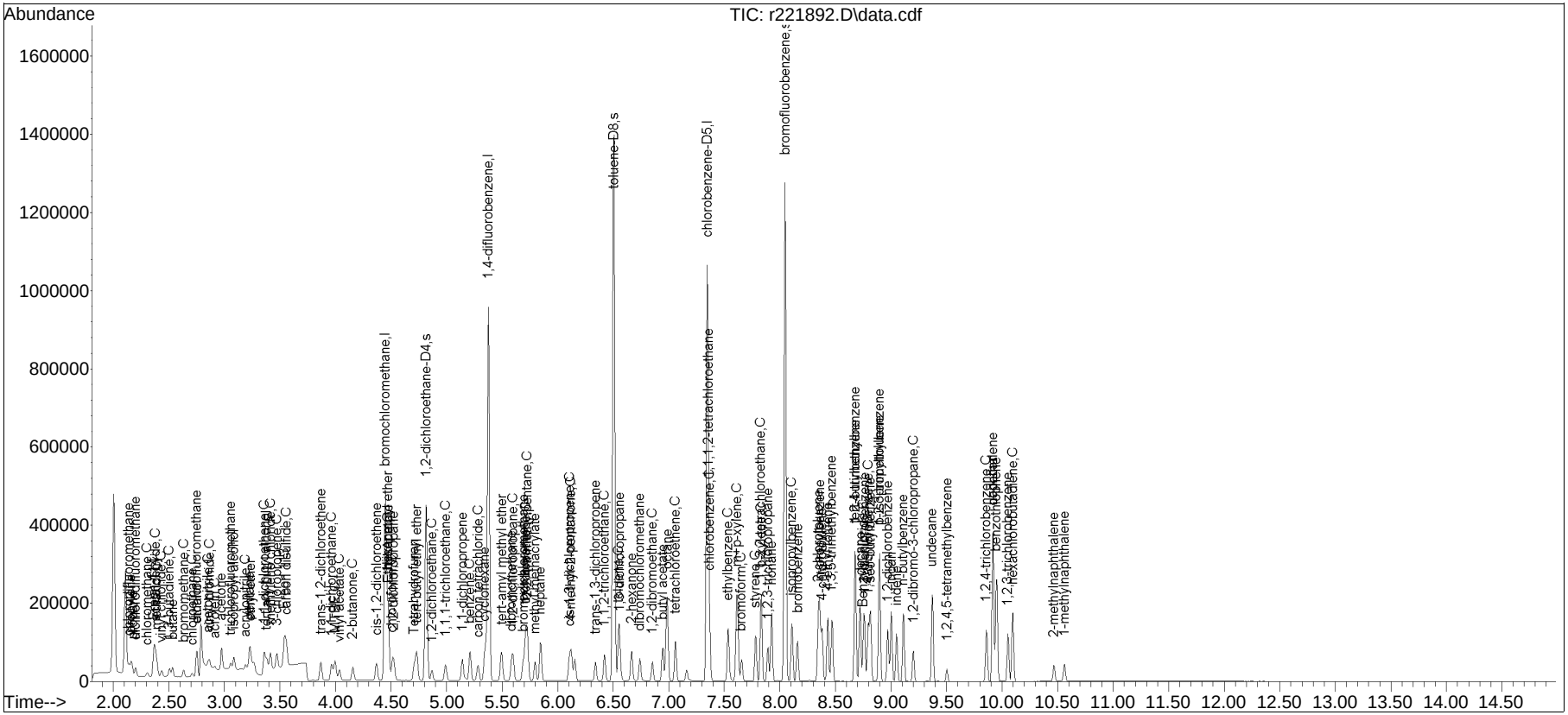
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	9.050	115	49654	1.070	ppbV		100
111) 1,2-dibromo-3-chloropr...	9.203	75	16642	1.210	ppbV	#	79
112) undecane	9.370	57	62260	1.072	ppbV		95
113) 1,2,4,5-tetramethylben...	9.503	119	13758	1.020	ppbV		98
114) dodecane	9.918	57	62723	1.129	ppbV		97
115) 1,2,4-trichlorobenzene	9.857	180	36088	1.002	ppbV		94
116) naphthalene	9.918	128	97529	1.102	ppbV	#	96
117) 1,2,3-trichlorobenzene	10.053	180	31907	1.013	ppbV		95
118) benzothiophene	9.947	134	178357	1.156	ppbV		100
119) hexachlorobutadiene	10.098	225	31315	1.100	ppbV	#	91
120) 2-methylnaphthalene	10.465	142	19334	0.508	ppbV		95
121) 1-methylnaphthalene	10.563	142	19517	0.512	ppbV		95

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

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221892.D
Acq On : 29 Nov 2023 11:44 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:07 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

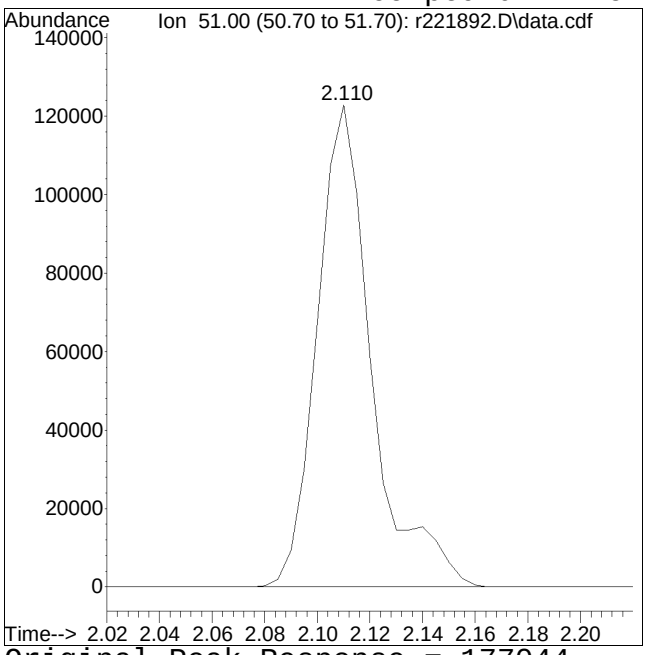


Manual Integration Report

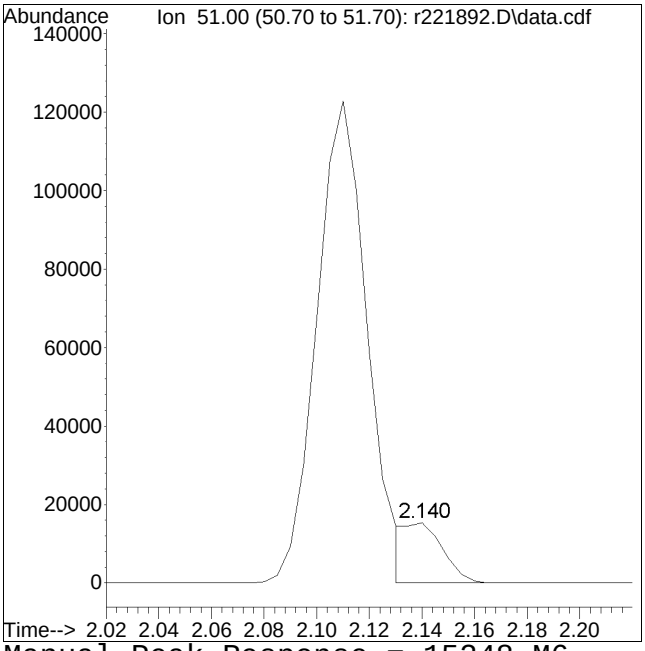
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221892.D
Date Inj'd : 11/29/2020 0:1: 4
Sample : ITO15-SIMSTD1.0

Method : TFS22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:37 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 177044



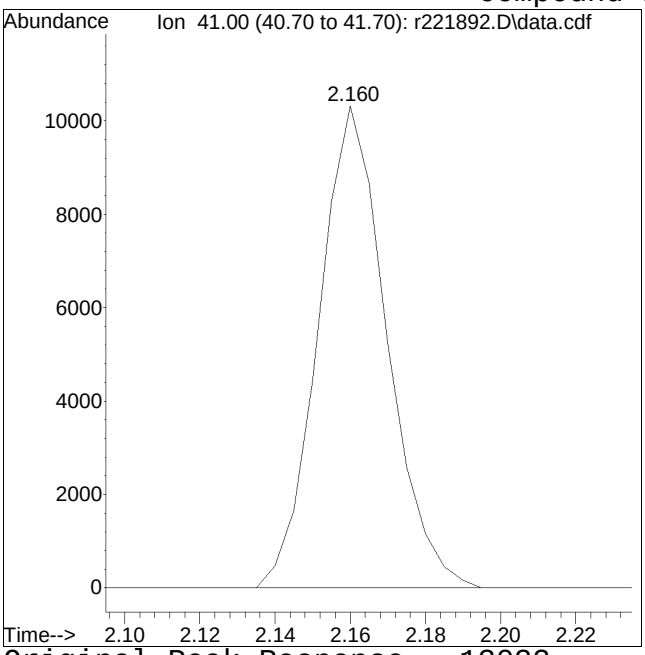
Manual Peak Response = 15248 M6

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

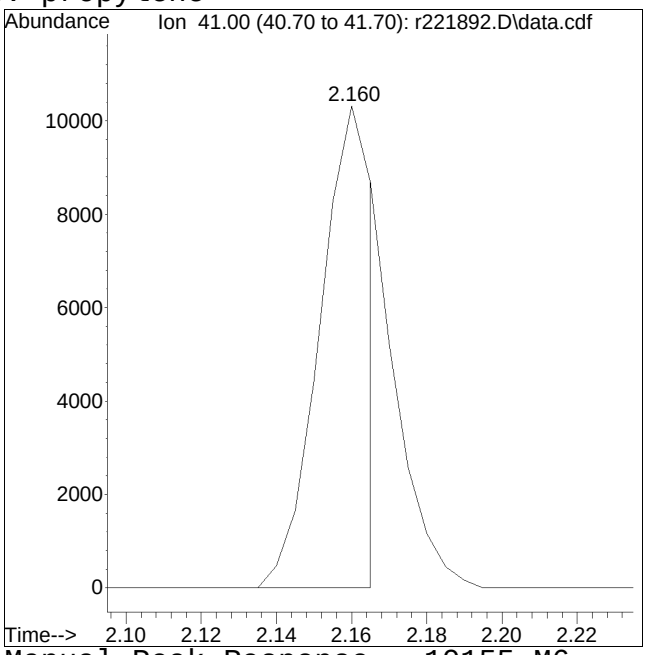
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221892.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:37 pm

Compound #3: propylene



Original Peak Response = 13032



Manual Peak Response = 10155 M6

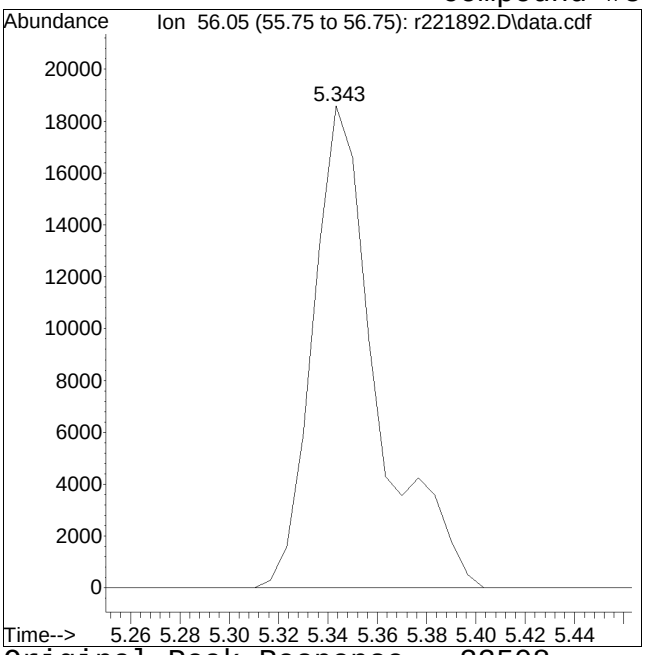
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

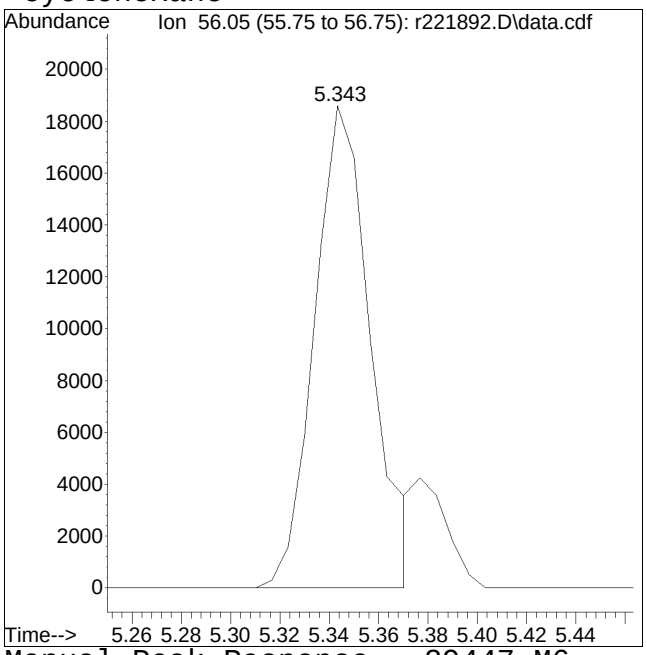
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221892.D
Date Inj'd : 11/29/2020 0:1: 4
Sample : ITO15-SIMSTD1.0

Method : TFS22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:37 pm

Compound #53: cyclohexane



Original Peak Response = 33508



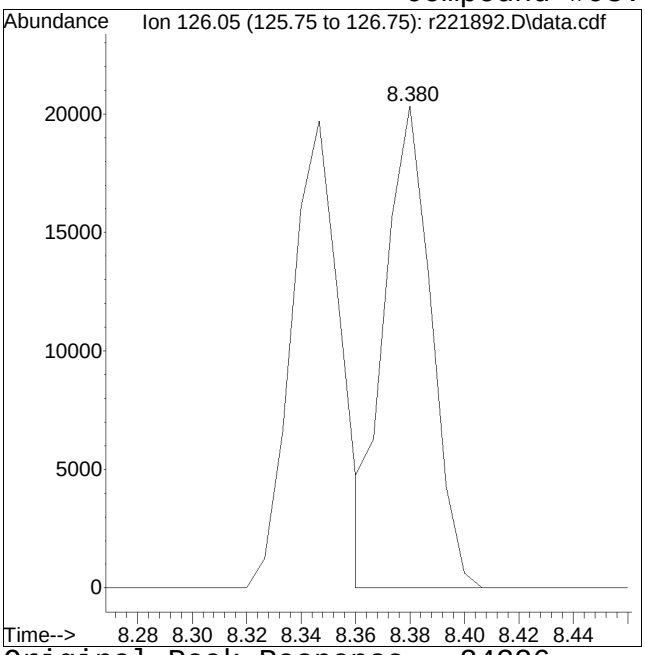
Manual Peak Response = 29447 M6

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

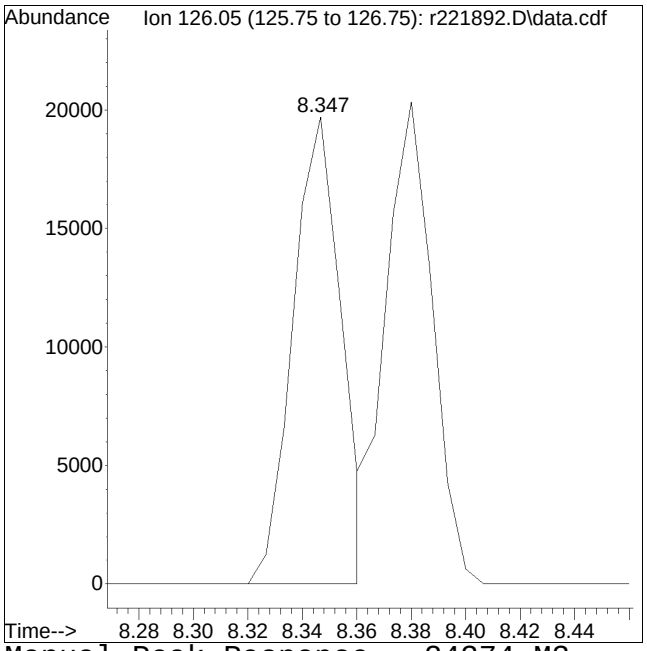
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221892.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:37 pm

Compound #93: 2-chlorotoluene



Original Peak Response = 24226



Manual Peak Response = 24374 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221893.D
Acq On : 30 Nov 2023 12:16 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	188536	10.000	ppbV	0.01
Standard Area = 192875			Recovery = 97.75%			
43) 1,4-difluorobenzene	5.377	114	660230	10.000	ppbV	0.01
Standard Area = 676282			Recovery = 97.63%			
67) chlorobenzene-D5	7.347	54	69907	10.000	ppbV	0.00
Standard Area = 69834			Recovery = 100.10%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	191425	11.101	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.01%			
69) toluene-D8	6.507	98	781917	10.010	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.10%			
90) bromofluorobenzene	8.047	95	466382	10.042	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.42%			
Target Compounds						Qvalue
2) chlorodifluoromethane	2.135	51	59439M6	4.010	ppbV	
3) propylene	2.155	41	49937M6	3.613	ppbV	
4) propane	2.170	29	39889	4.505	ppbV	95
5) dichlorodifluoromethane	2.200	85	82706	4.915	ppbV	99
6) chloromethane	2.305	50	40257	4.726	ppbV	99
7) Freon-114	2.360	85	117739	4.945	ppbV	97
8) methanol	2.390	31	84776	24.060	ppbV #	84
9) vinyl chloride	2.435	62	54400	4.442	ppbV	99
10) 1,3-butadiene	2.500	54	38920	4.491	ppbV #	79
11) butane	2.530	43	63292	3.839	ppbV	97
12) acetaldehyde	2.375	29	104841	22.449	ppbV	98
13) bromomethane	2.630	94	39244	4.804	ppbV	99
14) chloroethane	2.705	64	20494	4.034	ppbV	99
15) ethanol	2.745	31	86581	21.599	ppbV	90
16) dichlorofluoromethane	2.745	67	77235	4.634	ppbV	99
17) vinyl bromide	2.860	106	34796	4.499	ppbV	98
18) acrolein	2.908	56	16611	4.597	ppbV	97
19) acetone	2.968	43	150778	17.398	ppbV #	85
20) acetonitrile	2.848	41	28574	3.465	ppbV	93
21) trichlorofluoromethane	3.052	101	42259	4.260	ppbV	100
22) isopropyl alcohol	3.076	45	125631	9.173	ppbV	98
23) acrylonitrile	3.184	53	31838	4.531	ppbV	99
24) pentane	3.220	43	64293	3.627	ppbV #	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221893.D
Acq On : 30 Nov 2023 12:16 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.226	31	41155	4.248	ppbV	96
26) 1,1-dichloroethene	3.355	61	83150	4.643	ppbV	96
27) tertiary butyl alcohol	3.370	59	123646	5.064	ppbV	98
28) methylene chloride	3.410	49	75512	4.933	ppbV	92
29) 3-chloropropene	3.470	41	100975	4.337	ppbV	97
30) carbon disulfide	3.555	76	209565	4.882	ppbV	100
31) Freon 113	3.540	101	118298	4.914	ppbV	98
32) trans-1,2-dichloroethene	3.863	61	97462	4.568	ppbV	97
33) 1,1-dichloroethane	3.963	63	127274	4.760	ppbV	98
34) MTBE	3.990	73	181541	4.847	ppbV	96
35) vinyl acetate	4.030	43	131890	4.910	ppbV	98
36) 2-butanone	4.150	43	159291	5.032	ppbV	97
37) cis-1,2-dichloroethene	4.363	61	90896	4.637	ppbV	93
38) Ethyl Acetate	4.470	61	24558	4.693	ppbV	88
39) chloroform	4.510	83	113660	4.807	ppbV	99
40) Tetrahydrofuran	4.703	42	97459	4.371	ppbV	95
41) 2,2-dichloropropane	4.523	77	91510	5.153	ppbV	95
42) 1,2-dichloroethane	4.863	62	62698	4.686	ppbV	98
44) hexane	4.470	57	123758	4.881	ppbV	98
45) diisopropyl ether	4.463	87	77275	5.210	ppbV	85
46) tert-butyl ethyl ether	4.723	59	230657	5.178	ppbV	98
48) 1,1,1-trichloroethane	4.990	97	97982	5.856	ppbV	96
49) 1,1-dichloropropene	5.143	75	103105	5.346	ppbV	92
50) benzene	5.210	78	253861	5.140	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	89113	5.707	ppbV	100
53) cyclohexane	5.343	56	136233	4.769	ppbV	99
54) tert-amyl methyl ether	5.490	73	224121	5.619	ppbV	97
55) dibromomethane	5.583	93	64058	5.624	ppbV	97
56) 1,2-dichloropropane	5.597	63	85619	5.309	ppbV	98
57) bromodichloromethane	5.690	83	114832	5.486	ppbV	100
58) 1,4-dioxane	5.703	88	53350	4.985	ppbV	98
59) trichloroethene	5.710	130	105861	5.552	ppbV	98
60) 2,2,4-trimethylpentane	5.723	57	393179	5.087	ppbV	99
61) methyl methacrylate	5.797	41	85189	5.229	ppbV	91
62) heptane	5.843	43	154964	5.076	ppbV	97
63) cis-1,3-dichloropropene	6.100	75	125214	5.780	ppbV	91
64) 4-methyl-2-pentanone	6.120	43	179301	5.490	ppbV	97
65) trans-1,3-dichloropropene	6.340	75	99870	5.775	ppbV	93
66) 1,1,2-trichloroethane	6.420	97	91261	5.644	ppbV	93

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221893.D
Acq On : 30 Nov 2023 12:16 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	6.547	91	302110	5.104	ppbV	99
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	6.560	76	135312	5.471	ppbV	94
72) 2-hexanone	6.660	43	170710	5.060	ppbV	96
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	6.740	129	119301	5.497	ppbV	99
75) 1,2-dibromoethane	6.853	107	131092	5.387	ppbV	99
76) butyl acetate	6.940	73	42490	5.672	ppbV	86
77) octane	6.987	85	126788	5.161	ppbV	99
78) tetrachloroethene	7.060	166	119169	5.072	ppbV	96
79) 1,1,1,2-tetrachloroethane	7.360	131	96426	5.556	ppbV	99
80) chlorobenzene	7.367	112	238716	5.282	ppbV	98
81) ethylbenzene	7.533	91	370253	5.195	ppbV	97
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	7.613	91	602120	10.810	ppbV	99
84) bromoform	7.653	173	99815	5.413	ppbV	98
85) styrene	7.780	104	258469	5.349	ppbV	99
86) 1,1,2,2-tetrachloroethane	7.827	83	201014	5.463	ppbV	100
87) o-xylene	7.833	91	297231	5.493	ppbV	99
88) 1,2,3-trichloropropane	7.893	75	157857	5.645	ppbV	93
89) nonane	7.927	43	230753	5.233	ppbV	97
91) isopropylbenzene	8.107	105	397673	5.496	ppbV	97
92) bromobenzene	8.160	77	214254	5.572	ppbV	87
93) 2-chlorotoluene	8.347	126	120940M3	5.296	ppbV	
94) n-propylbenzene	8.360	120	144217	5.394	ppbV	84
95) 4-chlorotoluene	8.380	126	120398	5.443	ppbV	100
96) 4-ethyl toluene	8.433	105	429074	5.672	ppbV	97
97) 1,3,5-trimethylbenzene	8.467	105	355344	5.484	ppbV	96
98) tert-butylbenzene	8.677	119	366424	5.501	ppbV	99
99) 1,2,4-trimethylbenzene	8.677	105	359689	5.914	ppbV	97
100) decane	8.723	57	284210	5.316	ppbV	98
101) Benzyl Chloride	8.750	91	200685	5.558	ppbV	99
102) 1,3-dichlorobenzene	8.763	146	257852	5.801	ppbV	96
103) 1,4-dichlorobenzene	8.797	146	247413	5.940	ppbV	97
104) sec-butylbenzene	8.817	105	513121	5.748	ppbV	99
105) 1,2,3-trimethylbenzene	8.897	105	322088	5.841	ppbV	96
106) p-isopropyltoluene	8.897	119	451530	5.698	ppbV	100
107) 1,2-dichlorobenzene	8.970	146	238100	5.741	ppbV	99
108) n-butylbenzene	9.110	91	391394	5.735	ppbV	100
109) indan	9.003	117	373109	5.551	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221893.D
Acq On : 30 Nov 2023 12:16 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

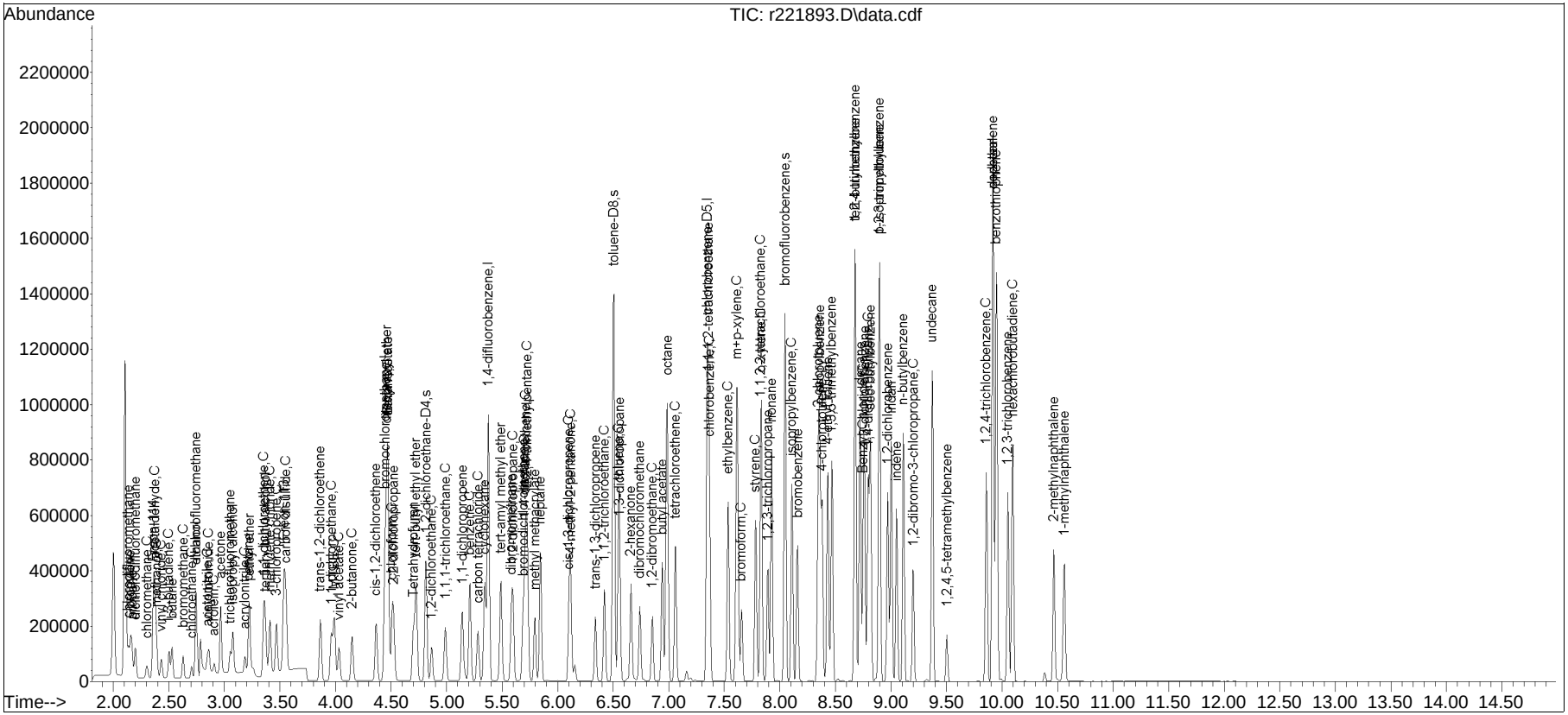
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	9.050	115	253253	5.470	ppbV	100
111) 1,2-dibromo-3-chloropr...	9.203	75	85530	6.234	ppbV	80
112) undecane	9.370	57	323276	5.576	ppbV	97
113) 1,2,4,5-tetramethylben...	9.503	119	69375	5.156	ppbV	100
114) dodecane	9.918	57	337597	6.091	ppbV	100
115) 1,2,4-trichlorobenzene	9.857	180	205635	5.723	ppbV	95
116) naphthalene	9.918	128	509653	5.769	ppbV	99
117) 1,2,3-trichlorobenzene	10.053	180	178473	5.678	ppbV	95
118) benzothiophene	9.947	134	1003501	6.516	ppbV	99
119) hexachlorobutadiene	10.098	225	157096	5.528	ppbV	96
120) 2-methylnaphthalene	10.465	142	201403	5.301	ppbV	96
121) 1-methylnaphthalene	10.563	142	196965	5.174	ppbV	96

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

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221893.D
Acq On : 30 Nov 2023 12:16 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

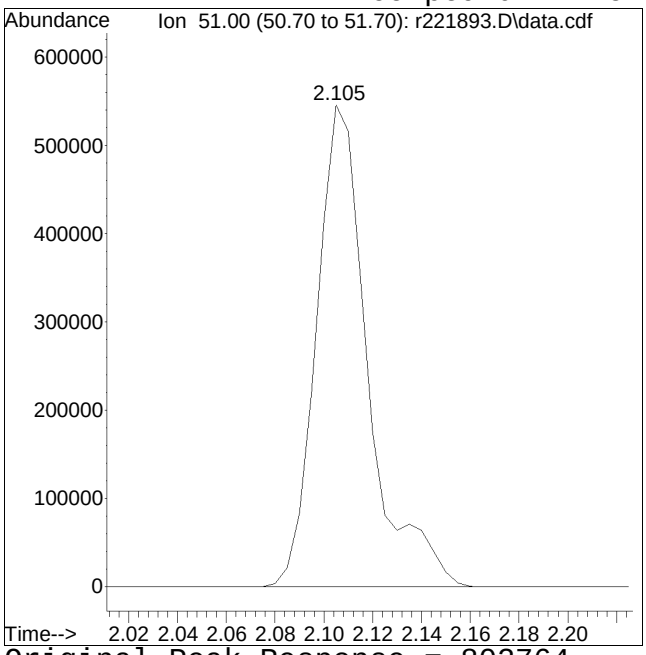


Manual Integration Report

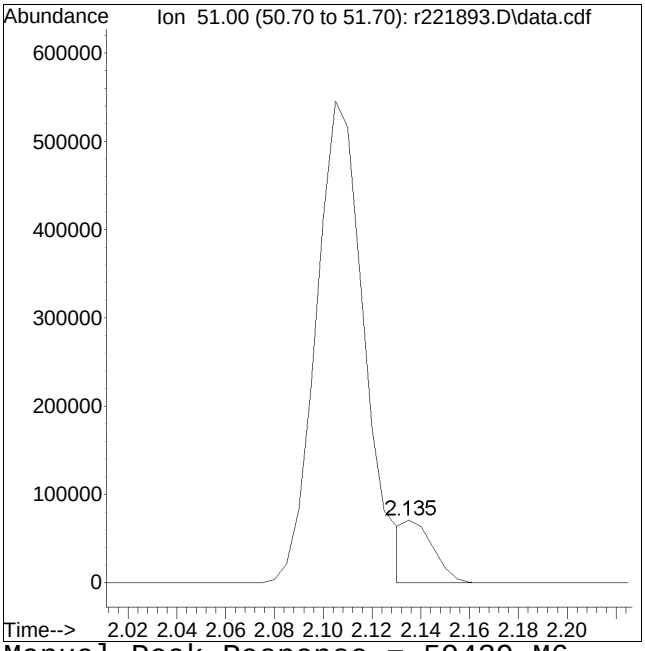
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221893.D
Date Inj'd : 11/30/2020 0:2: 6
Sample : ITO15-SIMSTD5.0

Method : TFS22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:37 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 802764



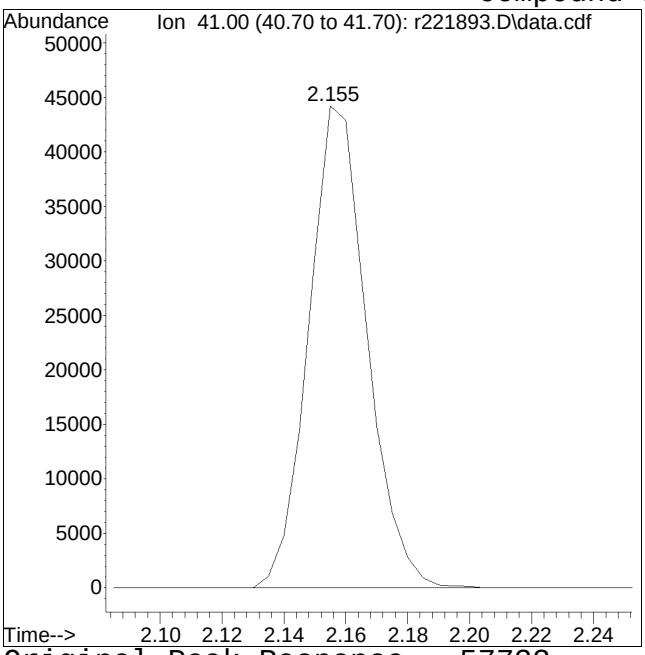
Manual Peak Response = 59439 M6

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

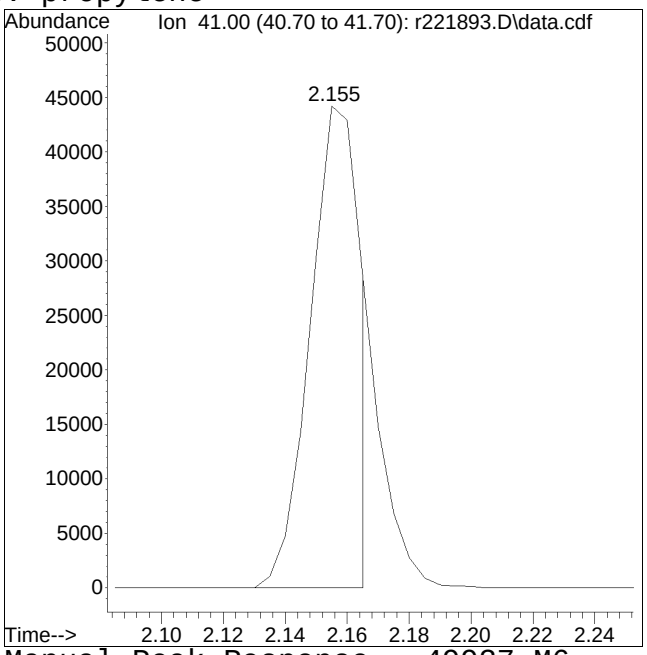
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221893.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 6 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 11/30/2023 12:37 pm

Compound #3: propylene



Original Peak Response = 57733



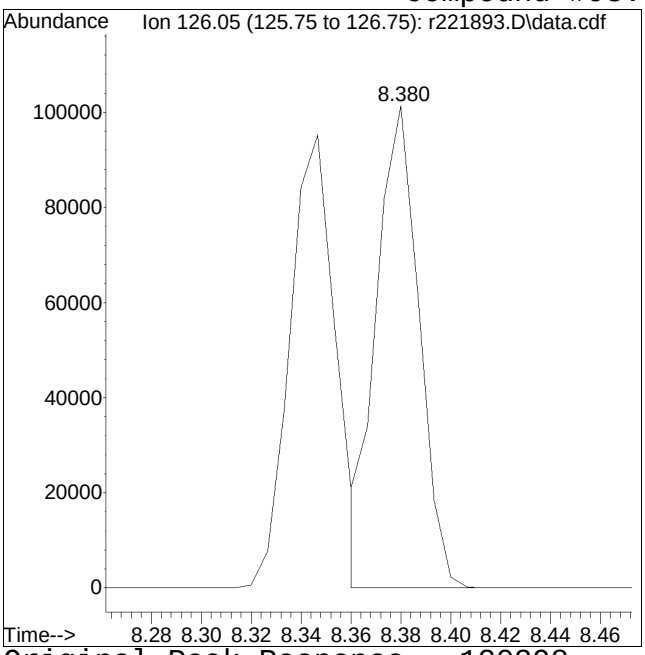
Manual Peak Response = 49937 M6

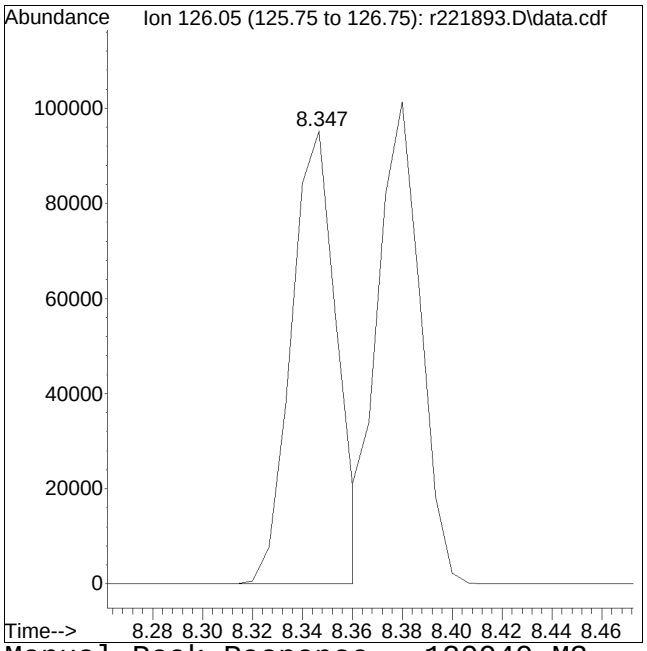
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221893.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 6 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 11/30/2023 12:37 pm

Compound #93: 2-chlorotoluene





Original Peak Response = 120398 Manual Peak Response = 120940 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221894.D
Acq On : 30 Nov 2023 12:49 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD010
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:30:08 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	192875	10.000	ppbV	0.01
Standard Area = 192875			Recovery = 100.00%			
43) 1,4-difluorobenzene	5.377	114	676282	10.000	ppbV	0.01
Standard Area = 676282			Recovery = 100.00%			
67) chlorobenzene-D5	7.347	54	69834	10.000	ppbV	0.00
Standard Area = 69834			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	194933	11.036	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.36%			
69) toluene-D8	6.507	98	810388	10.386	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.86%			
90) bromofluorobenzene	8.047	95	481887	10.387	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.87%			
Target Compounds						Qvalue
2) chlorodifluoromethane	2.140	51	140417M6	9.259	ppbV	
3) propylene	2.160	41	96060M6	6.794	ppbV	
4) propane	2.170	29	77992	8.610	ppbV #	92
5) dichlorodifluoromethane	2.200	85	147522	8.570	ppbV	99
6) chloromethane	2.305	50	82571	9.476	ppbV	98
7) Freon-114	2.365	85	231641	9.510	ppbV	98
8) methanol	2.390	31	168686	46.798	ppbV	96
9) vinyl chloride	2.435	62	109501	8.740	ppbV	99
10) 1,3-butadiene	2.505	54	78746	8.881	ppbV #	80
11) butane	2.535	43	126924	7.526	ppbV	97
12) acetaldehyde	2.380	29	206955	43.318	ppbV	95
13) bromomethane	2.635	94	76820	9.193	ppbV	97
14) chloroethane	2.710	64	41443	7.974	ppbV	99
15) ethanol	2.750	31	162929	39.731	ppbV	90
16) dichlorofluoromethane	2.750	67	126062	7.393	ppbV	99
17) vinyl bromide	2.866	106	69048	8.727	ppbV	99
18) acrolein	2.911	56	33773	9.136	ppbV	97
19) acetone	2.971	43	299211	33.748	ppbV #	85
20) acetonitrile	2.851	41	57802	6.851	ppbV	98
21) trichlorofluoromethane	3.058	101	83638	8.242	ppbV	97
22) isopropyl alcohol	3.079	45	246854	17.620	ppbV	98
23) acrylonitrile	3.190	53	64509	8.974	ppbV	99
24) pentane	3.223	43	127135	7.011	ppbV #	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221894.D
Acq On : 30 Nov 2023 12:49 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD010
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:30:08 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.232	31	82747	8.348	ppbV	96
26) 1,1-dichloroethene	3.360	61	166538	9.090	ppbV	96
27) tertiary butyl alcohol	3.370	59	244000	9.768	ppbV	99
28) methylene chloride	3.415	49	152617	9.746	ppbV	92
29) 3-chloropropene	3.470	41	204643	8.591	ppbV	95
30) carbon disulfide	3.560	76	422394	9.619	ppbV	100
31) Freon 113	3.540	101	237205	9.632	ppbV	98
32) trans-1,2-dichloroethene	3.870	61	196950	9.023	ppbV	98
33) 1,1-dichloroethane	3.963	63	256666	9.383	ppbV	98
34) MTBE	3.990	73	368829	9.626	ppbV	96
35) vinyl acetate	4.037	43	278361	10.130	ppbV	98
36) 2-butanone	4.150	43	322113	9.946	ppbV	97
37) cis-1,2-dichloroethene	4.370	61	182800	9.115	ppbV	94
38) Ethyl Acetate	4.470	61	50562	9.445	ppbV	98
39) chloroform	4.510	83	228609	9.450	ppbV	99
40) Tetrahydrofuran	4.703	42	198920	8.720	ppbV	95
41) 2,2-dichloropropane	4.523	77	185891	10.231	ppbV	94
42) 1,2-dichloroethane	4.870	62	126182	9.218	ppbV	97
44) hexane	4.470	57	245406	9.449	ppbV	94
45) diisopropyl ether	4.463	87	157778	10.385	ppbV	90
46) tert-butyl ethyl ether	4.723	59	464116	10.171	ppbV	97
48) 1,1,1-trichloroethane	4.990	97	195462	11.404	ppbV	97
49) 1,1-dichloropropene	5.143	75	209353	10.598	ppbV	92
50) benzene	5.210	78	520486	10.289	ppbV	100
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	177175	11.078	ppbV	99
53) cyclohexane	5.343	56	270612	9.248	ppbV	98
54) tert-amyl methyl ether	5.490	73	455214	11.142	ppbV	97
55) dibromomethane	5.583	93	126628	10.854	ppbV	97
56) 1,2-dichloropropane	5.597	63	173864	10.525	ppbV	98
57) bromodichloromethane	5.690	83	228250	10.646	ppbV	100
58) 1,4-dioxane	5.703	88	113425	10.346	ppbV	97
59) trichloroethene	5.710	130	212534	10.882	ppbV	98
60) 2,2,4-trimethylpentane	5.730	57	786254	9.931	ppbV	99
61) methyl methacrylate	5.797	41	175381	10.510	ppbV	89
62) heptane	5.843	43	310237	9.920	ppbV	97
63) cis-1,3-dichloropropene	6.107	75	255388	11.509	ppbV	94
64) 4-methyl-2-pentanone	6.113	43	356717	10.663	ppbV	97
65) trans-1,3-dichloropropene	6.340	75	204471	11.544	ppbV	92
66) 1,1,2-trichloroethane	6.420	97	186089	11.236	ppbV	92

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221894.D
Acq On : 30 Nov 2023 12:49 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD010
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:30:08 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	6.547	91	601602	10.175	ppbV	99
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	6.560	76	271906	11.006	ppbV	92
72) 2-hexanone	6.660	43	345973	10.265	ppbV	96
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	6.740	129	235797	10.877	ppbV	100
75) 1,2-dibromoethane	6.853	107	262569	10.802	ppbV	99
76) butyl acetate	6.940	73	87982	11.757	ppbV	84
77) octane	6.987	85	248802	10.139	ppbV	98
78) tetrachloroethene	7.060	166	236393	10.072	ppbV	98
79) 1,1,1,2-tetrachloroethane	7.360	131	188685	10.882	ppbV	99
80) chlorobenzene	7.367	112	471863	10.453	ppbV	99
81) ethylbenzene	7.533	91	735292	10.328	ppbV	96
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	7.613	91	1167395	20.981	ppbV	97
84) bromoform	7.653	173	197288	10.710	ppbV	98
85) styrene	7.780	104	521157	10.797	ppbV	99
86) 1,1,2,2-tetrachloroethane	7.827	83	391791	10.659	ppbV	99
87) o-xylene	7.833	91	571657	10.576	ppbV	96
88) 1,2,3-trichloropropane	7.893	75	316384	11.326	ppbV	93
89) nonane	7.927	43	451209	10.244	ppbV	98
91) isopropylbenzene	8.107	105	781440	10.811	ppbV	99
92) bromobenzene	8.160	77	423136	11.016	ppbV	91
93) 2-chlorotoluene	8.347	126	240064M3	10.524	ppbV	
94) n-propylbenzene	8.360	120	286808	10.738	ppbV	82
95) 4-chlorotoluene	8.380	126	240880	10.900	ppbV	100
96) 4-ethyl toluene	8.433	105	830898	10.995	ppbV	98
97) 1,3,5-trimethylbenzene	8.467	105	693252	10.710	ppbV	98
98) tert-butylbenzene	8.677	119	692470	10.407	ppbV	98
99) 1,2,4-trimethylbenzene	8.677	105	663260	10.917	ppbV	99
100) decane	8.723	57	554140	10.375	ppbV	99
101) Benzyl Chloride	8.750	91	415662	11.524	ppbV	99
102) 1,3-dichlorobenzene	8.763	146	492291	11.087	ppbV	97
103) 1,4-dichlorobenzene	8.797	146	481237	11.565	ppbV	99
104) sec-butylbenzene	8.817	105	992522	11.129	ppbV	100
105) 1,2,3-trimethylbenzene	8.897	105	590668	10.723	ppbV	98
106) p-isopropyltoluene	8.897	119	830121	10.486	ppbV	98
107) 1,2-dichlorobenzene	8.970	146	469634	11.336	ppbV	99
108) n-butylbenzene	9.110	91	747849	10.970	ppbV	99
109) indan	9.003	117	716318	10.669	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221894.D
Acq On : 30 Nov 2023 12:49 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD010
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:30:08 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

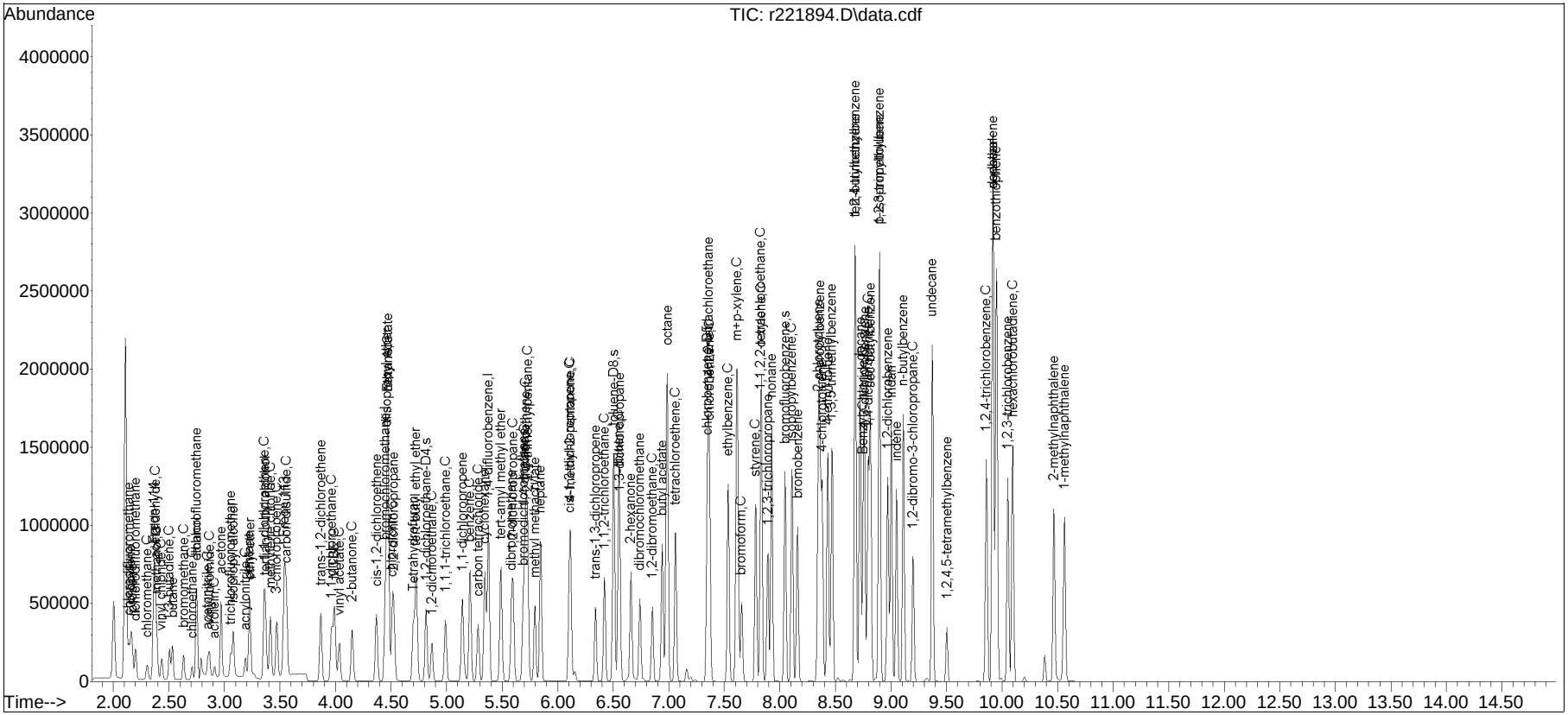
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	9.050	115	507437	10.972	ppbV	98
111) 1,2-dibromo-3-chloropr...	9.197	75	160344	11.698	ppbV	91
112) undecane	9.370	57	620048	10.706	ppbV	96
113) 1,2,4,5-tetramethylben...	9.503	119	144239	10.731	ppbV	99
114) dodecane	9.918	57	605114	10.930	ppbV	98
115) 1,2,4-trichlorobenzene	9.857	180	400929	11.170	ppbV	97
116) naphthalene	9.918	128	952596	10.794	ppbV	100
117) 1,2,3-trichlorobenzene	10.053	180	346557	11.038	ppbV	96
118) benzothiophene	9.947	134	1830297	11.897	ppbV	99
119) hexachlorobutadiene	10.098	225	284166	10.009	ppbV	99
120) 2-methylnaphthalene	10.465	142	483269	12.733	ppbV	97
121) 1-methylnaphthalene	10.563	142	465621	12.245	ppbV	96

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

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221894.D
Acq On : 30 Nov 2023 12:49 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD010
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

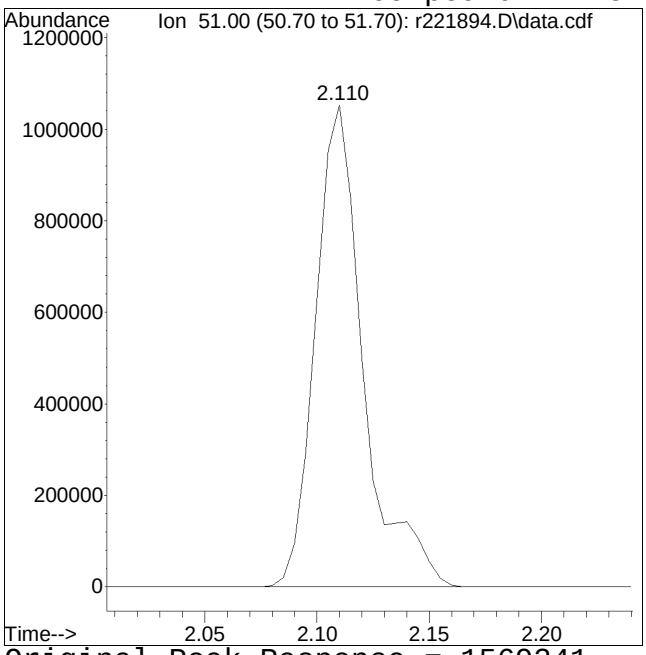
Quant Time: Nov 30 12:30:08 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration



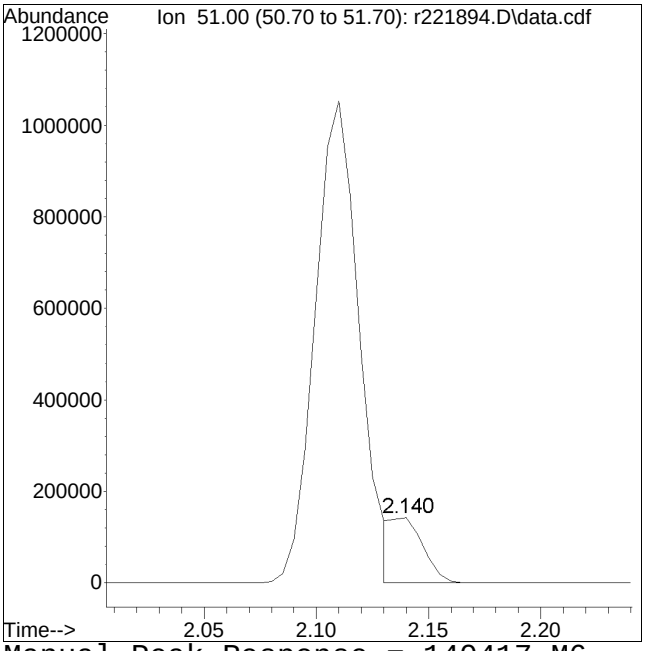
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221894.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 9 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/30/2023 12:30 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 1569241



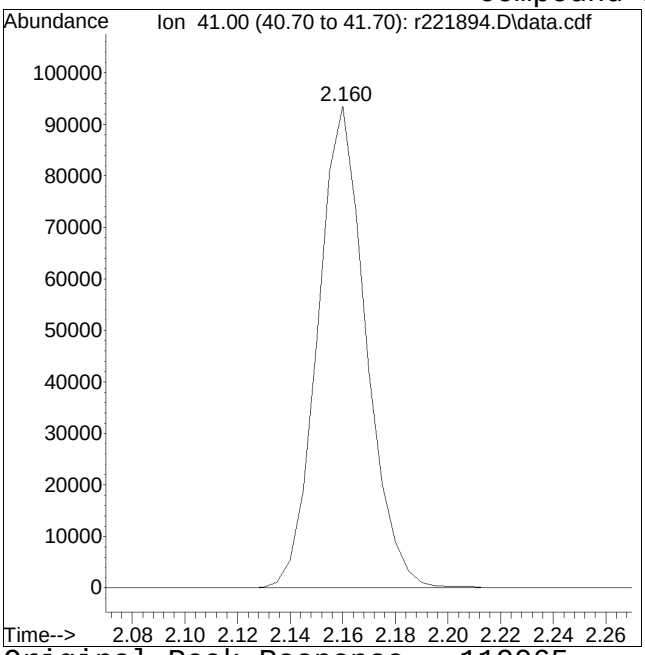
Manual Peak Response = 140417 M6

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

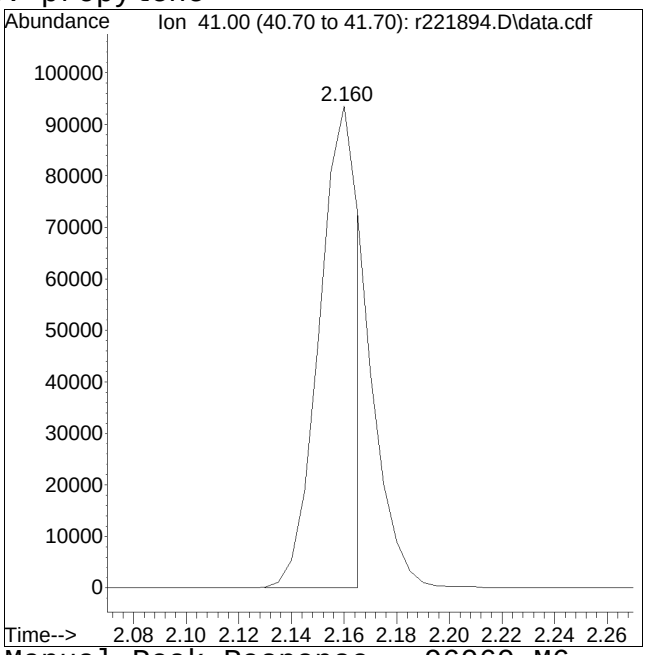
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221894.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 9 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/30/2023 12:30 pm

Compound #3: propylene



Original Peak Response = 119065



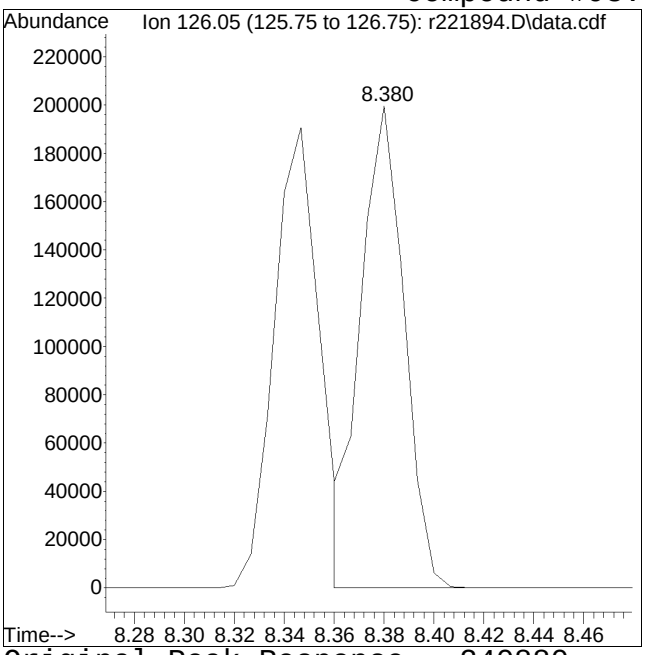
Manual Peak Response = 96060 M6

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

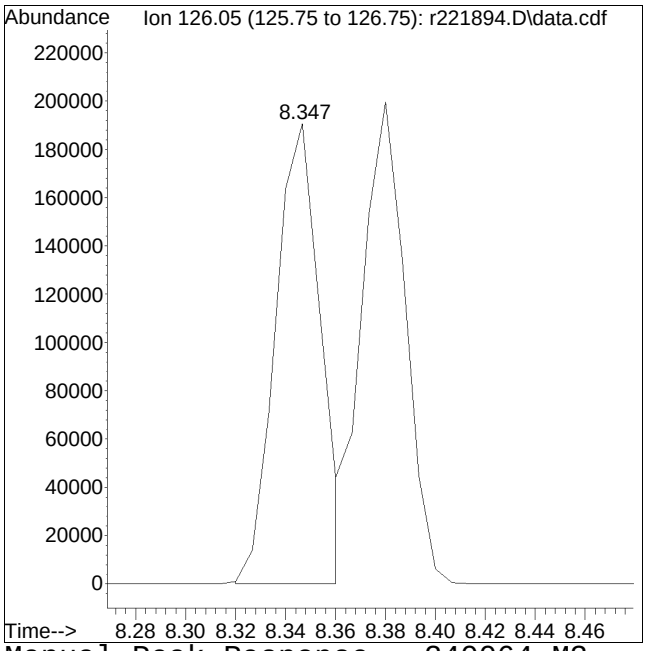
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221894.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 9 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/30/2023 12:30 pm

Compound #93: 2-chlorotoluene



Original Peak Response = 240880



Manual Peak Response = 240064 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221895.D
Acq On : 30 Nov 2023 1:19 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD020
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:24 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	199371	10.000	ppbV	0.01
Standard Area = 192875			Recovery = 103.37%			
43) 1,4-difluorobenzene	5.377	114	706361	10.000	ppbV	0.01
Standard Area = 676282			Recovery = 104.45%			
67) chlorobenzene-D5	7.347	54	68673	10.000	ppbV	0.00
Standard Area = 69834			Recovery = 98.34%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	197026	10.679	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.79%			
69) toluene-D8	6.500	98	832124	10.845	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.45%			
90) bromofluorobenzene	8.047	95	483526	10.599	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.99%			
Target Compounds						Qvalue
2) chlorodifluoromethane	2.140	51	229339M6	14.630	ppbV	
3) propylene	2.160	41	217243M6	14.864	ppbV	
4) propane	2.175	29	151970	16.230	ppbV	94
5) dichlorodifluoromethane	2.200	85	303399	17.051	ppbV	99
6) chloromethane	2.305	50	167107	18.552	ppbV	99
7) Freon-114	2.365	85	424270	16.852	ppbV	98
8) methanol	2.390	31	328608	88.194	ppbV	95
9) vinyl chloride	2.435	62	209941	16.212	ppbV	99
10) 1,3-butadiene	2.505	54	157410	17.175	ppbV #	80
11) butane	2.530	43	247484	14.196	ppbV	97
12) acetaldehyde	2.380	29	390424	79.057	ppbV	97
13) bromomethane	2.630	94	147611	17.089	ppbV	98
14) chloroethane	2.710	64	81121	15.100	ppbV	99
15) ethanol	2.745	31	323983	76.431	ppbV	89
16) dichlorofluoromethane	2.745	67	244876	13.893	ppbV	98
17) vinyl bromide	2.863	106	138163	16.894	ppbV	99
18) acrolein	2.911	56	66551	17.417	ppbV #	94
19) acetone	2.968	43	593507	64.761	ppbV #	86
20) acetonitrile	2.848	41	115764	13.274	ppbV	99
21) trichlorofluoromethane	3.055	101	161235	15.371	ppbV	98
22) isopropyl alcohol	3.076	45	511087	35.291	ppbV	98
23) acrylonitrile	3.187	53	133235	17.931	ppbV	100
24) pentane	3.223	43	251530	13.418	ppbV #	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221895.D
Acq On : 30 Nov 2023 1:19 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD020
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:24 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	3.229	31	162560	15.866	ppbV		96
26) 1,1-dichloroethene	3.355	61	340334	17.972	ppbV		92
27) tertiary butyl alcohol	3.365	59	511224	19.800	ppbV		100
28) methylene chloride	3.415	49	306817	18.954	ppbV		92
29) 3-chloropropene	3.470	41	421697	17.127	ppbV		94
30) carbon disulfide	3.560	76	865329	19.063	ppbV		99
31) Freon 113	3.540	101	468302	18.397	ppbV		99
32) trans-1,2-dichloroethene	3.870	61	399512	17.706	ppbV		94
33) 1,1-dichloroethane	3.963	63	512146	18.112	ppbV		98
34) MTBE	3.990	73	753884	19.034	ppbV		96
35) vinyl acetate	4.030	43	595866	20.977	ppbV		99
36) 2-butanone	4.150	43	667694	19.946	ppbV		96
37) cis-1,2-dichloroethene	4.370	61	361111	17.419	ppbV		92
38) Ethyl Acetate	4.470	61	100787	18.214	ppbV		80
39) chloroform	4.510	83	443629	17.741	ppbV		99
40) Tetrahydrofuran	4.697	42	409227	17.354	ppbV		92
41) 2,2-dichloropropane	4.523	77	359978	19.167	ppbV		92
42) 1,2-dichloroethane	4.863	62	243483	17.208	ppbV		95
44) hexane	4.470	57	480252	17.704	ppbV		96
45) diisopropyl ether	4.463	87	302175	19.043	ppbV		95
46) tert-butyl ethyl ether	4.723	59	900664	18.897	ppbV		96
48) 1,1,1-trichloroethane	4.990	97	379504	21.199	ppbV		96
49) 1,1-dichloropropene	5.143	75	416131	20.168	ppbV		91
50) benzene	5.210	78	1033046	19.552	ppbV		100
51) thiophene	0.000		0	N.D.	d		
52) carbon tetrachloride	5.283	117	342052	20.477	ppbV		99
53) cyclohexane	5.343	56	545611	17.852	ppbV		97
54) tert-amyl methyl ether	5.483	73	904267	21.191	ppbV		96
55) dibromomethane	5.583	93	242960	19.938	ppbV		97
56) 1,2-dichloropropane	5.597	63	338732	19.632	ppbV		97
57) bromodichloromethane	5.690	83	445938	19.913	ppbV		100
58) 1,4-dioxane	5.697	88	234497	20.479	ppbV		93
59) trichloroethene	5.710	130	411819	20.189	ppbV		99
60) 2,2,4-trimethylpentane	5.723	57	1549103	18.734	ppbV	#	97
61) methyl methacrylate	5.790	41	348763	20.011	ppbV		86
62) heptane	5.843	43	621452	19.025	ppbV		98
63) cis-1,3-dichloropropene	6.100	75	502328	21.673	ppbV	#	89
64) 4-methyl-2-pentanone	6.113	43	686857	19.658	ppbV		98
65) trans-1,3-dichloropropene	6.340	75	411144	22.223	ppbV		92
66) 1,1,2-trichloroethane	6.420	97	370073	21.393	ppbV		91

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221895.D
Acq On : 30 Nov 2023 1:19 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD020
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:24 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	toluene	6.547	91	1138105	19.574	ppbV		99
70)	2-methylthiophene	0.000		0	N.D.	d		
71)	1,3-dichloropropane	6.560	76	513898	21.152	ppbV		91
72)	2-hexanone	6.653	43	679007	20.486	ppbV		97
73)	3-methylthiophene	0.000		0	N.D.	d		
74)	dibromochloromethane	6.740	129	456922	21.433	ppbV		98
75)	1,2-dibromoethane	6.853	107	512550	21.442	ppbV		99
76)	butyl acetate	6.940	73	174145	23.665	ppbV		80
77)	octane	6.987	85	470516	19.499	ppbV		94
78)	tetrachloroethene	7.060	166	445760	19.313	ppbV		96
79)	1,1,1,2-tetrachloroethane	7.353	131	347042	20.354	ppbV		99
80)	chlorobenzene	7.367	112	885218	19.941	ppbV		100
81)	ethylbenzene	7.533	91	1395497	19.932	ppbV		94
82)	2-ethylthiophene	0.000		0	N.D.	d		
83)	m+p-xylene	7.613	91	2102027	38.417	ppbV		95
84)	bromoform	7.653	173	376020	20.758	ppbV		99
85)	styrene	7.780	104	996709	20.999	ppbV		99
86)	1,1,2,2-tetrachloroethane	7.827	83	707972	19.586	ppbV		100
87)	o-xylene	7.833	91	1002402	18.858	ppbV		94
88)	1,2,3-trichloropropane	7.887	75	605862	22.056	ppbV	#	93
89)	nonane	7.927	43	828344	19.124	ppbV		100
91)	isopropylbenzene	8.107	105	1435163	20.192	ppbV		100
92)	bromobenzene	8.160	77	788286	20.869	ppbV		88
93)	2-chlorotoluene	8.347	126	456509M6	20.350	ppbV		
94)	n-propylbenzene	8.360	120	530026	20.180	ppbV		75
95)	4-chlorotoluene	8.380	126	456436	21.004	ppbV		92
96)	4-ethyl toluene	8.433	105	1509228	20.308	ppbV		100
97)	1,3,5-trimethylbenzene	8.467	105	1300783	20.436	ppbV		100
98)	tert-butylbenzene	8.677	119	1162983	17.774	ppbV		95
99)	1,2,4-trimethylbenzene	8.677	105	1114444	18.653	ppbV		99
100)	decane	8.723	57	1002406	19.085	ppbV		98
101)	Benzyl Chloride	8.750	91	829127	23.375	ppbV		96
102)	1,3-dichlorobenzene	8.763	146	879934	20.152	ppbV		98
103)	1,4-dichlorobenzene	8.797	146	844091	20.628	ppbV		99
104)	sec-butylbenzene	8.817	105	1771654	20.202	ppbV		98
105)	1,2,3-trimethylbenzene	8.897	105	1004574	18.545	ppbV		99
106)	p-isopropyltoluene	8.897	119	1366196	17.549	ppbV		94
107)	1,2-dichlorobenzene	8.970	146	842454	20.678	ppbV		98
108)	n-butylbenzene	9.110	91	1309434	19.533	ppbV		95
109)	indan	9.003	117	1288001	19.508	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221895.D
Acq On : 30 Nov 2023 1:19 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD020
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:24 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

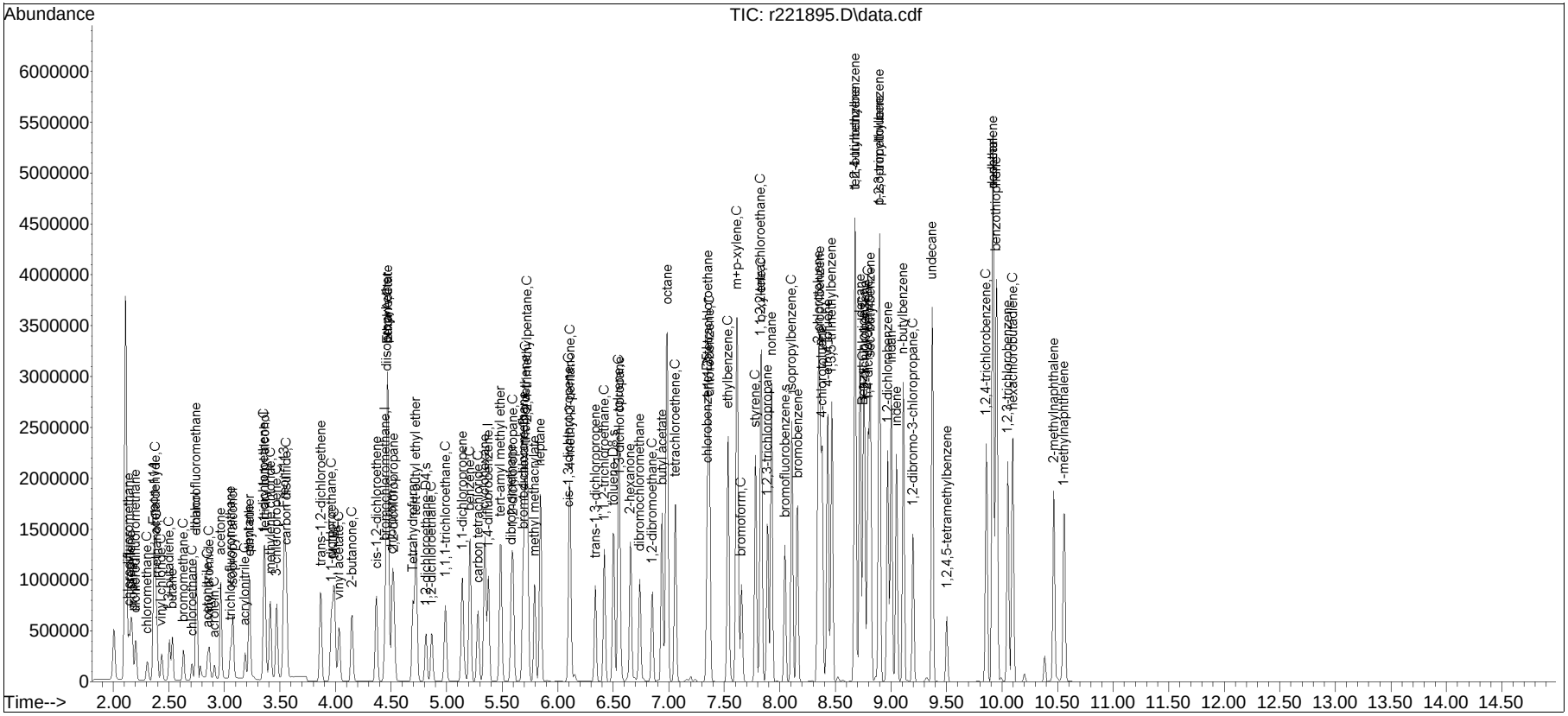
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	9.050	115	938275	20.630	ppbV	99
111) 1,2-dibromo-3-chloropr...	9.197	75	281140	20.858	ppbV	96
112) undecane	9.370	57	1078537	18.937	ppbV	95
113) 1,2,4,5-tetramethylben...	9.503	119	267540	20.241	ppbV	98
114) dodecane	9.918	57	945261	17.362	ppbV	97
115) 1,2,4-trichlorobenzene	9.857	180	671423	19.022	ppbV	97
116) naphthalene	9.918	128	1533540	17.670	ppbV	100
117) 1,2,3-trichlorobenzene	10.053	180	598531	19.385	ppbV	98
118) benzothiophene	9.947	134	2816316	18.616	ppbV	98
119) hexachlorobutadiene	10.098	225	449295	16.093	ppbV	98
120) 2-methylnaphthalene	10.465	142	810647	21.720	ppbV	96
121) 1-methylnaphthalene	10.555	142	807496	21.594	ppbV	95

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

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221895.D
Acq On : 30 Nov 2023 1:19 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD020
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:24 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

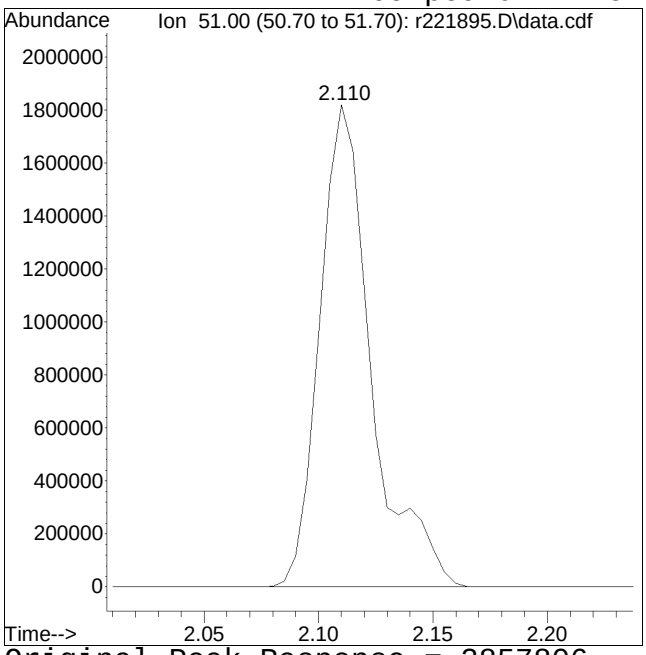


Manual Integration Report

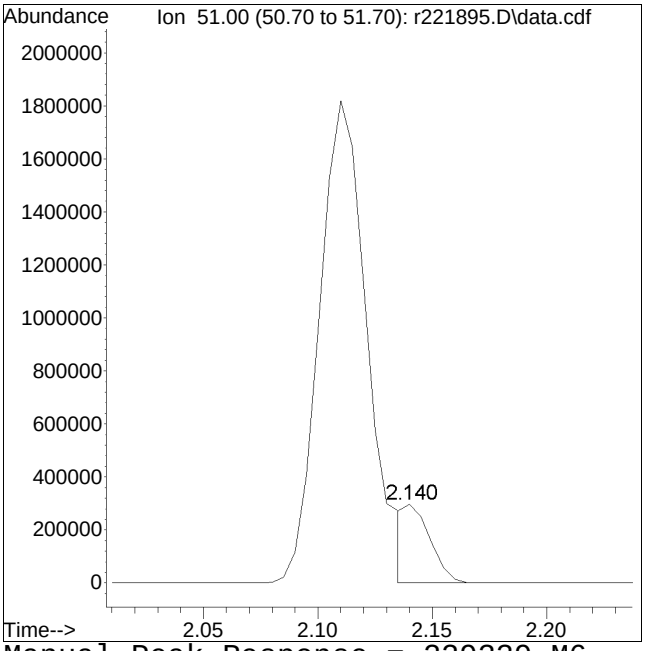
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221895.D
Date Inj'd : 11/30/2020 0:1: 9
Sample : ITO15-SIMSTD020

Method : TFS22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:37 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 2857806



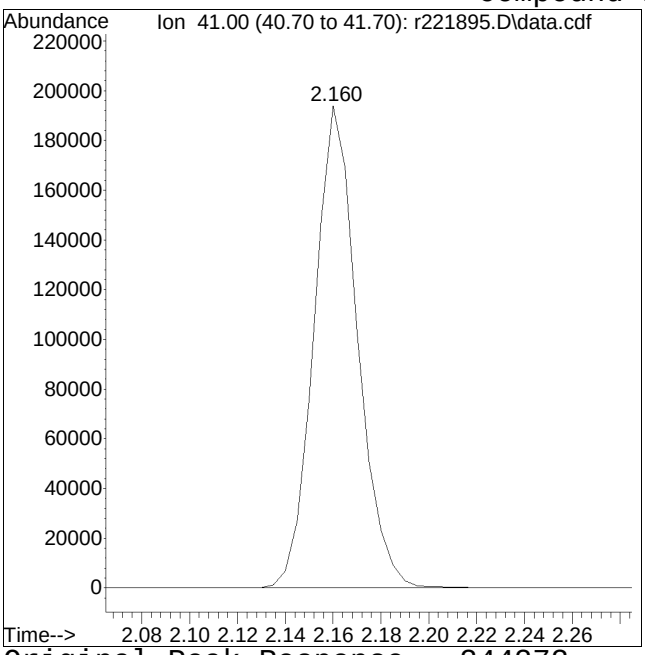
Manual Peak Response = 229339 M6

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

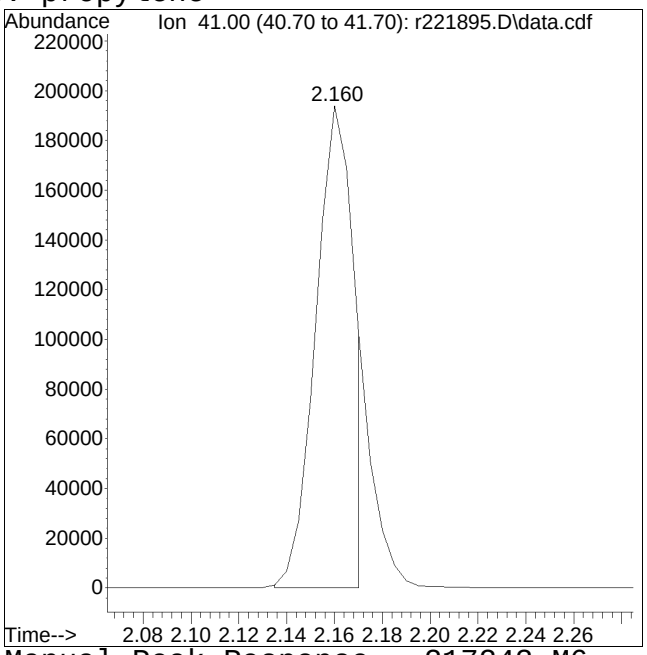
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221895.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:1: 9 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 11/30/2023 12:37 pm

Compound #3: propylene



Original Peak Response = 244272



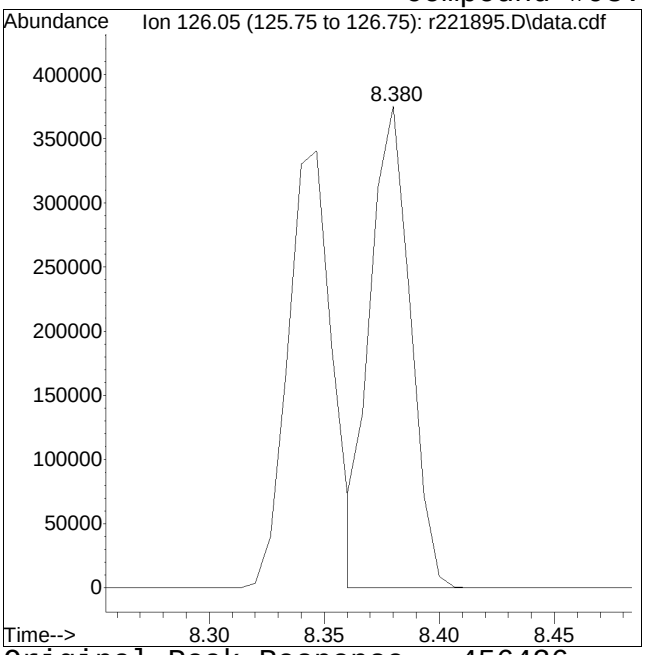
Manual Peak Response = 217243 M6

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

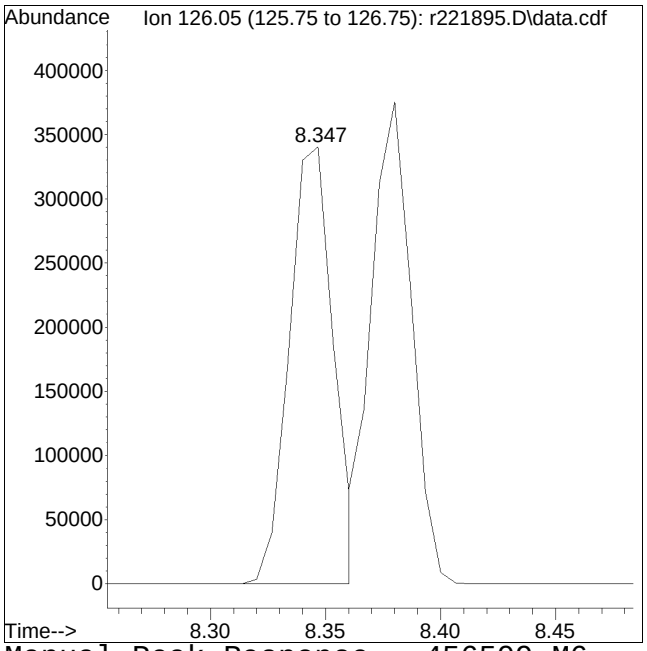
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221895.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:1: 9 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 11/30/2023 12:37 pm

Compound #93: 2-chlorotoluene



Original Peak Response = 456436



Manual Peak Response = 456509 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221896.D
Acq On : 30 Nov 2023 1:51 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD050
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:33 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	193896	10.000	ppbV	0.01
Standard Area = 192875			Recovery = 100.53%			
43) 1,4-difluorobenzene	5.377	114	715415	10.000	ppbV	0.01
Standard Area = 676282			Recovery = 105.79%			
67) chlorobenzene-D5	7.347	54	61259	10.000	ppbV	# 0.00
Standard Area = 69834			Recovery = 87.72%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	179428	9.602	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.02%			
69) toluene-D8	6.507	98	824466	12.045	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.45%			
90) bromofluorobenzene	8.047	95	478669	11.762	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.62%			
Target Compounds						Qvalue
2) chlorodifluoromethane	2.135	51	564993M6	37.059	ppbV	
3) propylene	2.155	41	513345M6	36.116	ppbV	
4) propane	2.170	29	353667	38.836	ppbV	97
5) dichlorodifluoromethane	2.200	85	651117	37.626	ppbV	100
6) chloromethane	2.300	50	400829	45.756	ppbV	99
7) Freon-114	2.360	85	879179	35.906	ppbV	97
8) methanol	2.390	31	748863	206.661	ppbV #	85
9) vinyl chloride	2.435	62	480959	38.188	ppbV	99
10) 1,3-butadiene	2.505	54	361311	40.535	ppbV	82
11) butane	2.530	43	567843	33.493	ppbV	97
12) acetaldehyde	2.375	29	856248	178.277	ppbV	98
13) bromomethane	2.630	94	315643	37.573	ppbV	98
14) chloroethane	2.710	64	184327	35.280	ppbV	99
15) ethanol	2.745	31	689121	167.162	ppbV	86
16) dichlorofluoromethane	2.750	67	484132	28.243	ppbV	98
17) vinyl bromide	2.866	106	296069	37.223	ppbV	99
18) acrolein	2.911	56	156021	41.984	ppbV #	93
19) acetone	2.968	43	1332563	149.510	ppbV	89
20) acetonitrile	2.851	41	270987	31.951	ppbV	97
21) trichlorofluoromethane	3.058	101	355779	34.876	ppbV	98
22) isopropyl alcohol	3.079	45	1137795	80.784	ppbV	98
23) acrylonitrile	3.187	53	297421	41.159	ppbV	99
24) pentane	3.223	43	558813	30.653	ppbV #	94

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221896.D
Acq On : 30 Nov 2023 1:51 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD050
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:33 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	3.229	31	362223	36.352	ppbV		94
26) 1,1-dichloroethene	3.360	61	645663	35.057	ppbV	#	85
27) tertiary butyl alcohol	3.365	59	1065385	42.427	ppbV		98
28) methylene chloride	3.415	49	711580	45.200	ppbV		94
29) 3-chloropropene	3.470	41	980349	40.941	ppbV	#	90
30) carbon disulfide	3.560	76	1911797	43.307	ppbV		97
31) Freon 113	3.540	101	998383	40.328	ppbV		97
32) trans-1,2-dichloroethene	3.870	61	876530	39.944	ppbV		89
33) 1,1-dichloroethane	3.963	63	1147118	41.713	ppbV		97
34) MTBE	3.990	73	1674120	43.462	ppbV		96
35) vinyl acetate	4.030	43	1430514	51.783	ppbV		98
36) 2-butanone	4.150	43	1533015	47.088	ppbV		93
37) cis-1,2-dichloroethene	4.370	61	796742	39.518	ppbV		85
38) Ethyl Acetate	4.470	61	210952	39.199	ppbV		60
39) chloroform	4.510	83	927370	38.134	ppbV		99
40) Tetrahydrofuran	4.697	42	934879	40.765	ppbV		88
41) 2,2-dichloropropane	4.523	77	741677	40.606	ppbV	#	89
42) 1,2-dichloroethane	4.870	62	500159	36.346	ppbV	#	88
44) hexane	4.477	57	982602	35.763	ppbV	#	68
45) diisopropyl ether	4.463	87	638159	39.708	ppbV		94
46) tert-butyl ethyl ether	4.723	59	1918977	39.753	ppbV		93
48) 1,1,1-trichloroethane	4.990	97	783323	43.203	ppbV		96
49) 1,1-dichloropropene	5.143	75	916376	43.851	ppbV	#	91
50) benzene	5.210	78	2327516	43.494	ppbV		99
51) thiophene	0.000		0	N.D.	d		
52) carbon tetrachloride	5.283	117	693055	40.964	ppbV		100
53) cyclohexane	5.343	56	1231162	39.773	ppbV		95
54) tert-amyl methyl ether	5.483	73	1989583	46.035	ppbV		94
55) dibromomethane	5.583	93	489044	39.625	ppbV		99
56) 1,2-dichloropropane	5.597	63	718820	41.134	ppbV	#	97
57) bromodichloromethane	5.690	83	888669	39.181	ppbV		99
58) 1,4-dioxane	5.697	88	491113	42.348	ppbV		91
59) trichloroethene	5.710	130	825408	39.952	ppbV		100
60) 2,2,4-trimethylpentane	5.730	57	3172922	37.885	ppbV		96
61) methyl methacrylate	5.797	41	776901	44.011	ppbV	#	80
62) heptane	5.843	43	1299458	39.278	ppbV	#	96
63) cis-1,3-dichloropropene	6.100	75	1059398	45.129	ppbV	#	88
64) 4-methyl-2-pentanone	6.113	43	1403563	39.661	ppbV	#	96
65) trans-1,3-dichloropropene	6.340	75	903820	48.235	ppbV	#	91
66) 1,1,2-trichloroethane	6.420	97	805135	45.955	ppbV	#	90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221896.D
Acq On : 30 Nov 2023 1:51 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD050
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:33 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	toluene	6.547	91	2286808	44.091	ppbV		99
70)	2-methylthiophene	0.000		0	N.D.	d		
71)	1,3-dichloropropane	6.560	76	1046517	48.288	ppbV		87
72)	2-hexanone	6.653	43	1440263	48.713	ppbV	#	97
73)	3-methylthiophene	0.000		0	N.D.	d		
74)	dibromochloromethane	6.740	129	916563	48.197	ppbV		99
75)	1,2-dibromoethane	6.853	107	1057803	49.607	ppbV		96
76)	butyl acetate	6.940	73	395922	60.314	ppbV		69
77)	octane	6.987	85	910645	42.305	ppbV		89
78)	tetrachloroethene	7.060	166	872970	42.401	ppbV		97
79)	1,1,1,2-tetrachloroethane	7.353	131	650223	42.751	ppbV		99
80)	chlorobenzene	7.367	112	1704380	43.040	ppbV		99
81)	ethylbenzene	7.533	91	2761807	44.221	ppbV		91
82)	2-ethylthiophene	0.000		0	N.D.	d		
83)	m+p-xylene	7.613	91	3877986	79.453	ppbV		89
84)	bromoform	7.653	173	715963	44.309	ppbV		99
85)	styrene	7.780	104	2032391	48.001	ppbV		97
86)	1,1,2,2-tetrachloroethane	7.827	83	1335060	41.405	ppbV		100
87)	o-xylene	7.833	91	1787143	37.691	ppbV		88
88)	1,2,3-trichloropropane	7.887	75	1258613	51.364	ppbV	#	93
89)	nonane	7.927	43	1584352	41.006	ppbV		95
91)	isopropylbenzene	8.107	105	2789453	43.995	ppbV		96
92)	bromobenzene	8.160	77	1533566	45.512	ppbV		93
93)	2-chlorotoluene	8.347	126	888940	44.424	ppbV		76
94)	n-propylbenzene	8.360	120	1000248	42.692	ppbV		68
95)	4-chlorotoluene	8.380	126	933233	48.142	ppbV		82
96)	4-ethyl toluene	8.433	105	3057301	46.117	ppbV		98
97)	1,3,5-trimethylbenzene	8.467	105	2275084	40.069	ppbV		97
98)	tert-butylbenzene	8.677	119	1995619	34.191	ppbV		92
99)	1,2,4-trimethylbenzene	8.683	105	1907185	35.785	ppbV		90
100)	decane	8.723	57	1914437	40.861	ppbV		96
101)	Benzyl Chloride	8.750	91	1672751	52.867	ppbV		93
102)	1,3-dichlorobenzene	8.763	146	1591002	40.846	ppbV		99
103)	1,4-dichlorobenzene	8.797	146	1583374	43.378	ppbV		99
104)	sec-butylbenzene	8.817	105	3252112	41.571	ppbV		95
105)	1,2,3-trimethylbenzene	8.897	105	1730528	35.812	ppbV		98
106)	p-isopropyltoluene	8.897	119	2365830	34.068	ppbV		92
107)	1,2-dichlorobenzene	8.970	146	1602364	44.091	ppbV		97
108)	n-butylbenzene	9.110	91	2458854	41.117	ppbV		92
109)	indan	9.003	117	2383957	40.477	ppbV		100

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221896.D
Acq On : 30 Nov 2023 1:51 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD050
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:33 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

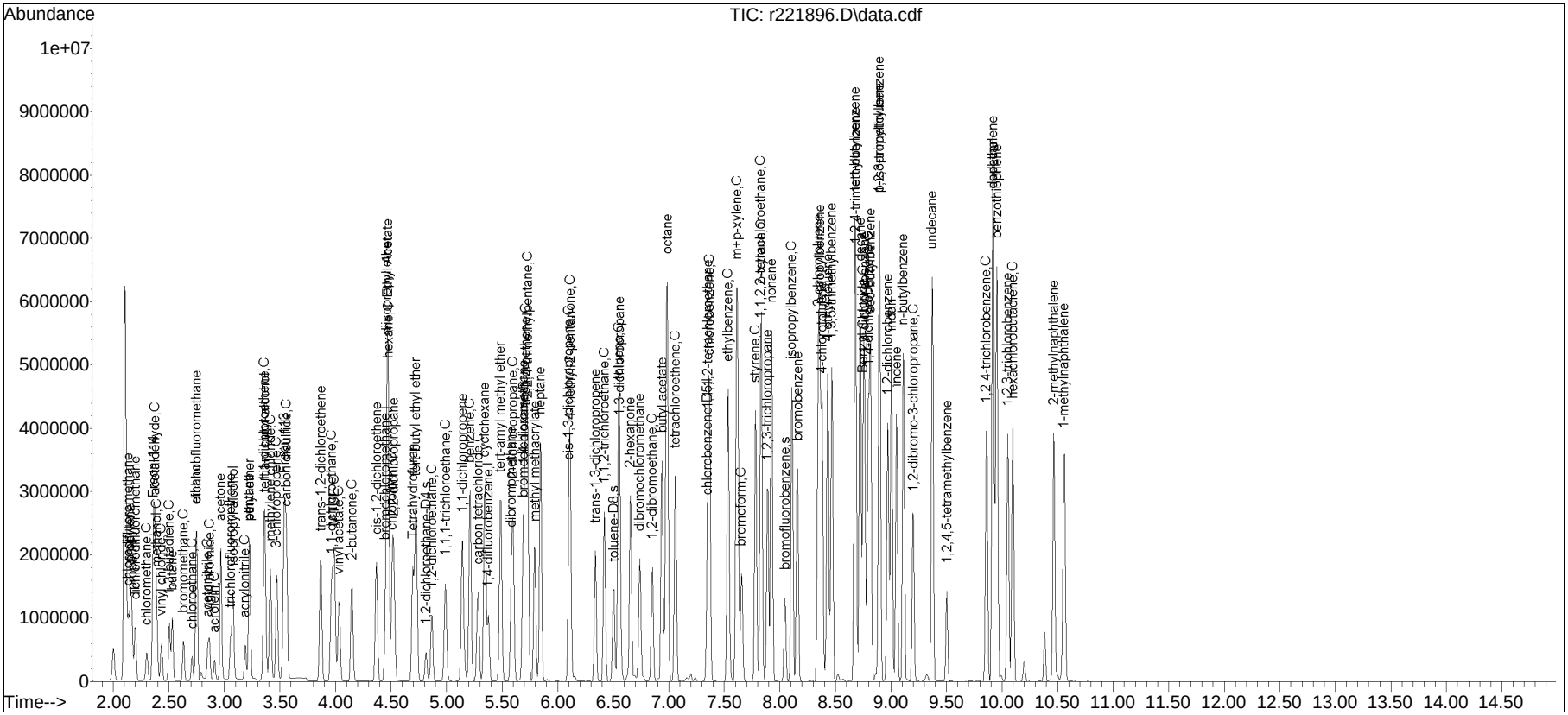
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	9.050	115	1827405	45.042	ppbV	99
111) 1,2-dibromo-3-chloropr...	9.203	75	533190	44.346	ppbV	93
112) undecane	9.370	57	2004888	39.463	ppbV	94
113) 1,2,4,5-tetramethylben...	9.503	119	603838	51.212	ppbV	94
114) dodecane	9.918	57	1580032	32.534	ppbV	97
115) 1,2,4-trichlorobenzene	9.857	180	1203435	38.220	ppbV	98
116) naphthalene	9.918	128	2612588	33.747	ppbV	98
117) 1,2,3-trichlorobenzene	10.053	180	1117523	40.575	ppbV	98
118) benzothiophene	9.955	134	4557516	33.771	ppbV	98
119) hexachlorobutadiene	10.098	225	749646	30.101	ppbV	96
120) 2-methylnaphthalene	10.465	142	1759475	52.848	ppbV	94
121) 1-methylnaphthalene	10.555	142	1799273	53.940	ppbV	94

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

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221896.D
Acq On : 30 Nov 2023 1:51 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD050
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:33 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

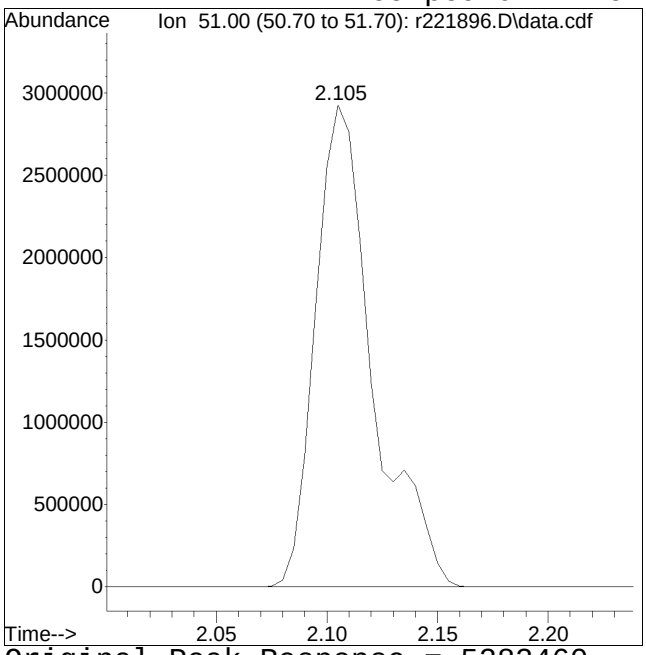


Manual Integration Report

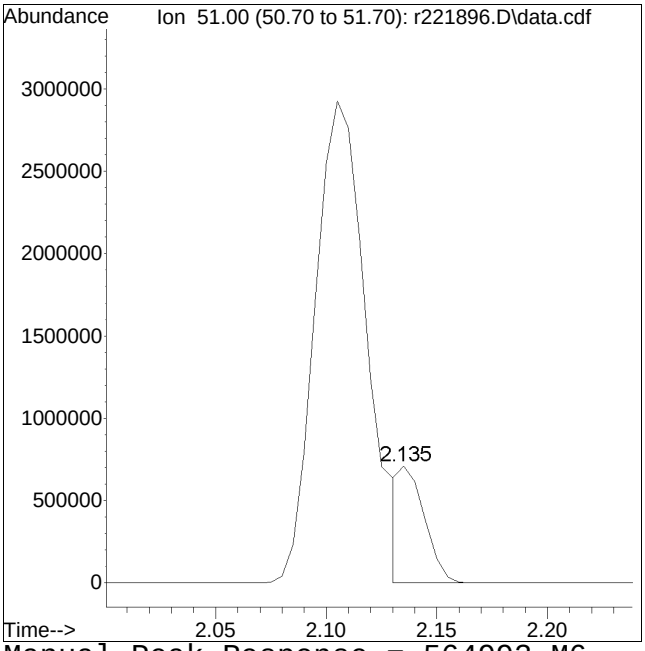
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221896.D
Date Inj'd : 11/30/2020 0:1: 1
Sample : ITO15-SIMSTD050

Method : TFS22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:37 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 5282460



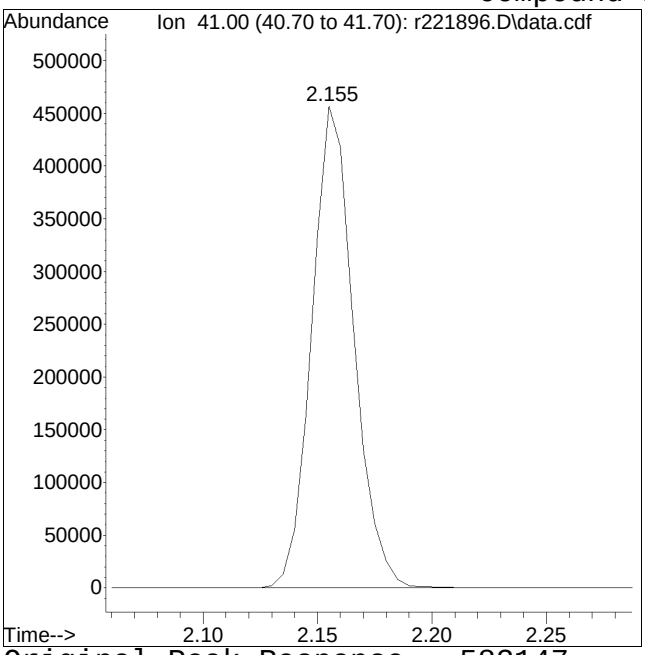
Manual Peak Response = 564993 M6

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

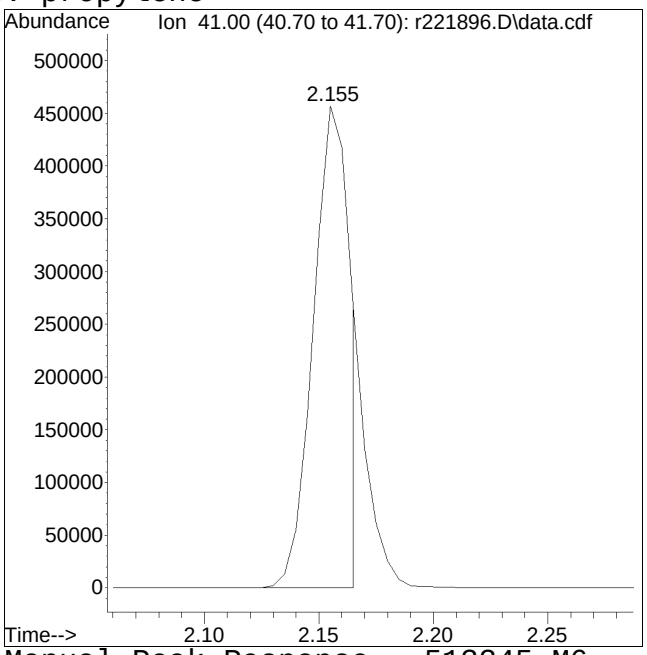
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221896.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD050 Quant Date : 11/30/2023 12:37 pm

Compound #3: propylene



Original Peak Response = 583147



Manual Peak Response = 513345 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221897.D
Acq On : 30 Nov 2023 2:24 AM
Operator : AIRLAB22:RAY
Sample : ITO15-LLSTD100
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:41 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	178654	10.000	ppbV	0.01
Standard Area = 192875			Recovery = 92.63%			
43) 1,4-difluorobenzene	5.377	114	680450	10.000	ppbV	0.01
Standard Area = 676282			Recovery = 100.62%			
67) chlorobenzene-D5	7.347	54	53634	10.000	ppbV	# 0.00
Standard Area = 69834			Recovery = 76.80%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	141257	7.948	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 79.48%			
69) toluene-D8	6.507	98	782182	13.052	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 130.52%#			
90) bromofluorobenzene	8.047	95	429497	12.054	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.54%			
Target Compounds						Qvalue
2) chlorodifluoromethane	2.135	51	1166704M6	83.056	ppbV	
3) propylene	2.160	41	966372M6	73.788	ppbV	
4) propane	2.170	29	639462	76.210	ppbV	96
5) dichlorodifluoromethane	2.200	85	998635	62.632	ppbV	100
6) chloromethane	2.305	50	731497	90.627	ppbV	99
7) Freon-114	2.365	85	1339043	59.353	ppbV	99
8) methanol	2.390	31	1305493	391.009	ppbV #	88
9) vinyl chloride	2.435	62	807253	69.564	ppbV	99
10) 1,3-butadiene	2.505	54	619084	75.380	ppbV	85
11) butane	2.535	43	984863	63.046	ppbV	98
12) acetaldehyde	2.375	29	1470306	332.246	ppbV	96
13) bromomethane	2.635	94	507772	65.601	ppbV	100
14) chloroethane	2.710	64	320494	66.575	ppbV	100
15) ethanol	2.755	31	1079355	284.160	ppbV #	80
16) dichlorofluoromethane	2.750	67	717018	45.398	ppbV #	98
17) vinyl bromide	2.866	106	473120	64.558	ppbV	99
18) acrolein	2.914	56	273188	79.785	ppbV #	94
19) acetone	2.971	43	2379492	289.749	ppbV	95
20) acetonitrile	2.851	41	496561	63.542	ppbV	97
21) trichlorofluoromethane	3.058	101	601728	64.018	ppbV	99
22) isopropyl alcohol	3.082	45	1946800	150.017	ppbV	98
23) acrylonitrile	3.190	53	503923	75.685	ppbV	99
24) pentane	3.226	43	948323	56.457	ppbV	97

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221897.D
Acq On : 30 Nov 2023 2:24 AM
Operator : AIRLAB22:RAY
Sample : ITO15-LLSTD100
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:41 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	3.229	31	632796	68.924	ppbV		91
26) 1,1-dichloroethene	3.360	61	996620	58.730	ppbV	#	82
27) tertiary butyl alcohol	3.370	59	1681787	72.688	ppbV		98
28) methylene chloride	3.415	49	1184906	81.687	ppbV		96
29) 3-chloropropene	3.475	41	1632345	73.985	ppbV	#	87
30) carbon disulfide	3.560	76	2989098	73.487	ppbV		95
31) Freon 113	3.540	101	1513843	66.366	ppbV		97
32) trans-1,2-dichloroethene	3.870	61	1366447	67.583	ppbV	#	83
33) 1,1-dichloroethane	3.963	63	1814058	71.593	ppbV		97
34) MTBE	3.990	73	2634449	74.229	ppbV		96
35) vinyl acetate	4.037	43	2429200	95.437	ppbV		96
36) 2-butanone	4.150	43	2493724	83.133	ppbV	#	88
37) cis-1,2-dichloroethene	4.370	61	1249687	67.272	ppbV	#	79
38) Ethyl Acetate	4.470	61	320041	64.544	ppbV		57
39) chloroform	4.517	83	1390868	62.072	ppbV		99
40) Tetrahydrofuran	4.697	42	1527284	72.279	ppbV	#	83
41) 2,2-dichloropropane	4.530	77	1097312	65.203	ppbV	#	89
42) 1,2-dichloroethane	4.870	62	723669	57.075	ppbV	#	82
44) hexane	4.477	57	1456460	55.734	ppbV	#	71
45) diisopropyl ether	4.463	87	954566	62.448	ppbV		87
46) tert-butyl ethyl ether	4.723	59	2931481	63.848	ppbV		90
48) 1,1,1-trichloroethane	4.990	97	1277812	74.097	ppbV	#	96
49) 1,1-dichloropropene	5.143	75	1451942	73.050	ppbV	#	88
50) benzene	5.210	78	3746956	73.616	ppbV		99
51) thiophene	0.000		0	N.D.	d		
52) carbon tetrachloride	5.283	117	1025561	63.732	ppbV		99
53) cyclohexane	5.343	56	2001883	67.994	ppbV		93
54) tert-amyl methyl ether	5.490	73	3186090	77.507	ppbV		93
55) dibromomethane	5.583	93	721565	61.470	ppbV		98
56) 1,2-dichloropropane	5.603	63	1093938	65.817	ppbV	#	97
57) bromodichloromethane	5.690	83	1355394	62.830	ppbV		100
58) 1,4-dioxane	5.697	88	720837	65.350	ppbV		90
59) trichloroethene	5.710	130	1184271	60.267	ppbV		100
60) 2,2,4-trimethylpentane	5.730	57	4689226	58.867	ppbV	#	95
61) methyl methacrylate	5.797	41	1232078	73.383	ppbV	#	72
62) heptane	5.850	43	1986806	63.140	ppbV	#	94
63) cis-1,3-dichloropropene	6.107	75	1636450	73.292	ppbV	#	91
64) 4-methyl-2-pentanone	6.113	43	2103662	62.499	ppbV	#	92
65) trans-1,3-dichloropropene	6.340	75	1434807	80.507	ppbV	#	90
66) 1,1,2-trichloroethane	6.420	97	1274240	76.467	ppbV	#	88

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221897.D
Acq On : 30 Nov 2023 2:24 AM
Operator : AIRLAB22:RAY
Sample : ITO15-LLSTD100
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:41 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	toluene	6.547	91	3294240	72.544	ppbV		100
70)	2-methylthiophene	0.000		0	N.D.	d		
71)	1,3-dichloropropane	6.560	76	1568422	82.659	ppbV		87
72)	2-hexanone	6.660	43	2254058	87.076	ppbV	#	95
73)	3-methylthiophene	0.000		0	N.D.	d		
74)	dibromochloromethane	6.740	129	1351689	81.183	ppbV		97
75)	1,2-dibromoethane	6.853	107	1606653	86.058	ppbV		96
76)	butyl acetate	6.940	73	646438	112.477	ppbV	#	61
77)	octane	6.993	85	1324031	70.254	ppbV		90
78)	tetrachloroethene	7.060	166	1250821	69.391	ppbV		97
79)	1,1,1,2-tetrachloroethane	7.360	131	932827	70.051	ppbV		100
80)	chlorobenzene	7.373	112	2415472	69.668	ppbV		99
81)	ethylbenzene	7.533	91	4074558	74.516	ppbV		88
82)	2-ethylthiophene	0.000		0	N.D.	d		
83)	m+p-xylene	7.620	91	5290610	123.805	ppbV		89
84)	bromoform	7.660	173	1047482	74.041	ppbV		98
85)	styrene	7.787	104	3092797	83.431	ppbV		97
86)	1,1,2,2-tetrachloroethane	7.833	83	1904837	67.475	ppbV		100
87)	o-xylene	7.840	91	2518030	60.655	ppbV		89
88)	1,2,3-trichloropropane	7.893	75	1970138	91.832	ppbV		92
89)	nonane	7.927	43	2355219	69.623	ppbV	#	94
91)	isopropylbenzene	8.113	105	4073952	73.389	ppbV		96
92)	bromobenzene	8.160	77	2302020	78.030	ppbV		95
93)	2-chlorotoluene	8.347	126	1271372	72.568	ppbV		97
94)	n-propylbenzene	8.360	120	1410936	68.783	ppbV		66
95)	4-chlorotoluene	8.380	126	1408160	82.969	ppbV		85
96)	4-ethyl toluene	8.433	105	4362016	75.152	ppbV		97
97)	1,3,5-trimethylbenzene	8.473	105	3369073	67.772	ppbV		98
98)	tert-butylbenzene	8.677	119	2843666	55.648	ppbV		93
99)	1,2,4-trimethylbenzene	8.683	105	2670310	57.227	ppbV		94
100)	decane	8.723	57	2871078	69.992	ppbV	#	95
101)	Benzyl Chloride	8.750	91	2574658	92.940	ppbV		93
102)	1,3-dichlorobenzene	8.763	146	2437844	71.486	ppbV		99
103)	1,4-dichlorobenzene	8.797	146	2061461	64.504	ppbV		99
104)	sec-butylbenzene	8.817	105	4654698	67.959	ppbV		93
105)	1,2,3-trimethylbenzene	8.903	105	2506287	59.240	ppbV		94
106)	p-isopropyltoluene	8.897	119	3323795	54.667	ppbV		92
107)	1,2-dichlorobenzene	8.977	146	2379636	74.787	ppbV		99
108)	n-butylbenzene	9.117	91	3661348	69.930	ppbV		96
109)	indan	9.003	117	3462069	67.139	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221897.D
Acq On : 30 Nov 2023 2:24 AM
Operator : AIRLAB22:RAY
Sample : ITO15-LLSTD100
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:41 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default - All compounds listed

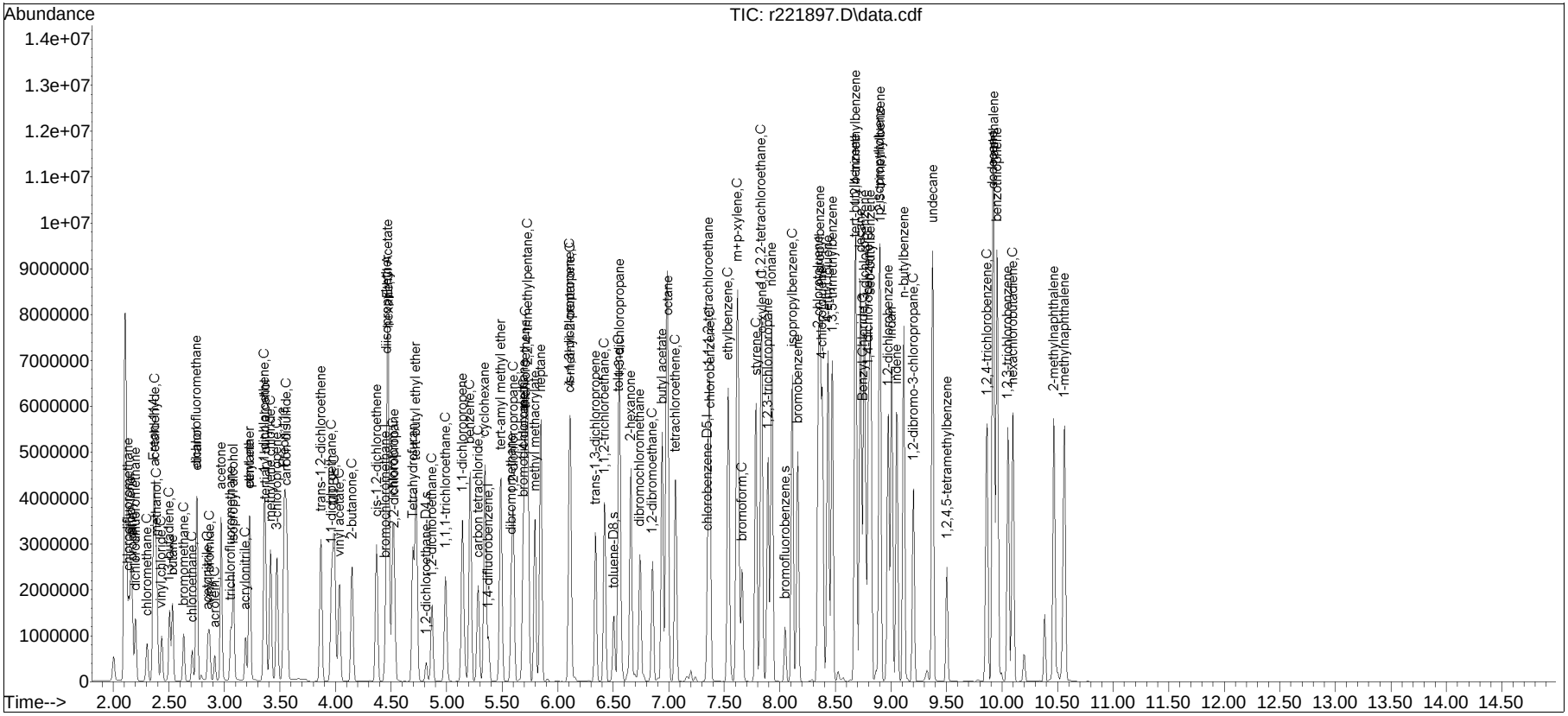
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	9.050	115	2717183	76.495	ppbV		99
111) 1,2-dibromo-3-chloropr...	9.203	75	857050	81.415	ppbV		91
112) undecane	9.377	57	3000195	67.449	ppbV		96
113) 1,2,4,5-tetramethylben...	9.503	119	1056928	102.383	ppbV		93
114) dodecane	9.918	57	2349693	55.260	ppbV		100
115) 1,2,4-trichlorobenzene	9.865	180	1752631	63.575	ppbV		92
116) naphthalene	9.925	128	3759409	55.464	ppbV	#	95
117) 1,2,3-trichlorobenzene	10.053	180	1617882	67.093	ppbV		96
118) benzothiophene	9.955	134	6384033	54.031	ppbV	#	96
119) hexachlorobutadiene	10.098	225	1084843	49.754	ppbV	#	95
120) 2-methylnaphthalene	10.465	142	2615873	89.742	ppbV		94
121) 1-methylnaphthalene	10.563	142	2805004	96.046	ppbV		95

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

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221897.D
Acq On : 30 Nov 2023 2:24 AM
Operator : AIRLAB22:RAY
Sample : ITO15-LLSTD100
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:41 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration

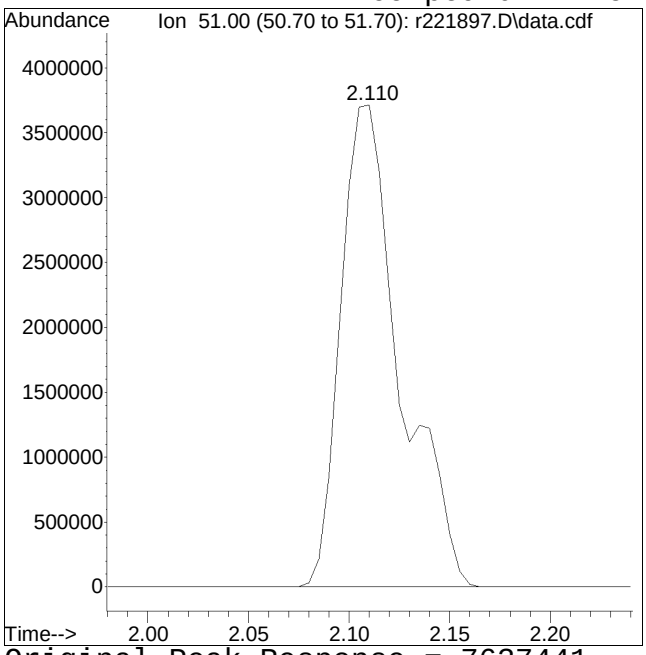


Manual Integration Report

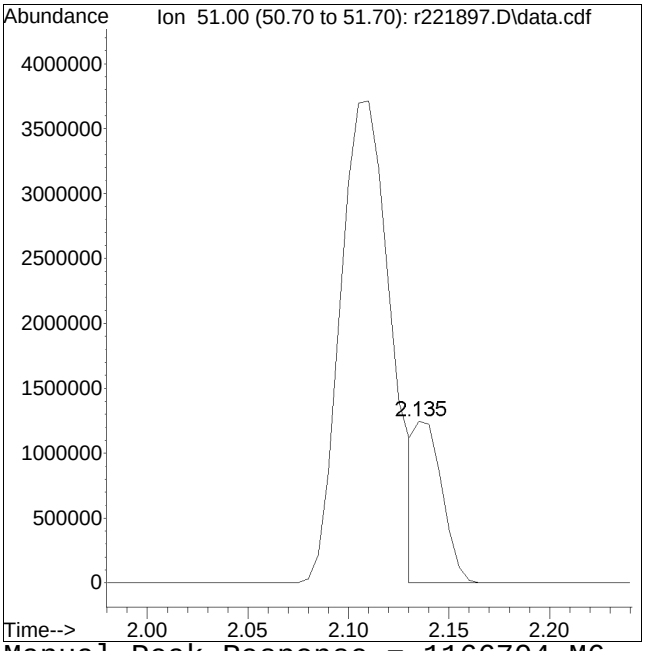
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221897.D
Date Inj'd : 11/30/2020 0:2: 4
Sample : ITO15-LLSTD100

Method : TFS22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:37 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 7637441



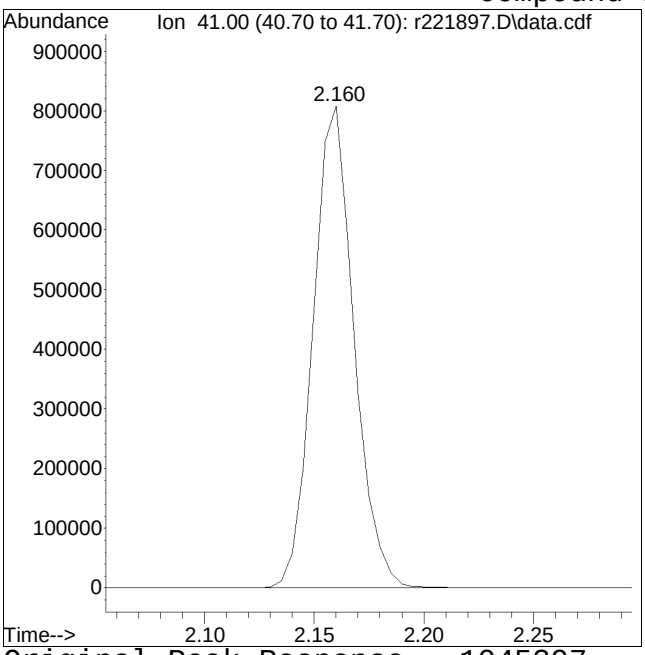
Manual Peak Response = 1166704 M6

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

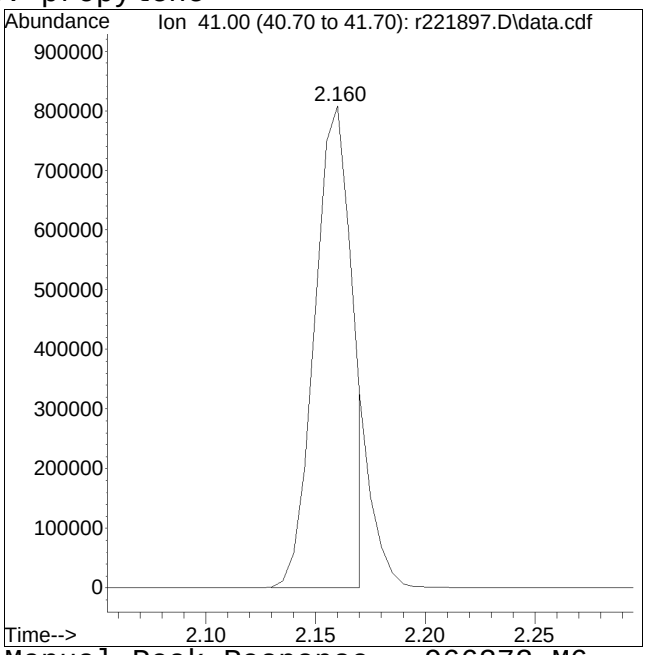
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221897.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 4 Instrument :
Sample : ITO15-LLSTD100 Quant Date : 11/30/2023 12:37 pm

Compound #3: propylene



Original Peak Response = 1045397



Manual Peak Response = 966372 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221900.D
Acq On : 30 Nov 2023 4:23 PM
Operator : AIRLAB22:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	85	0.00
2		chlorodifluoromethane	0.667	0.893	-33.9#	104	0.00
3		propylene	0.539	0.653	-21.2	111	0.00
4		propane	0.434	0.384	11.5	80	0.00
5		dichlorodifluoromethane	0.805	0.636	21.0	70	0.00
6	C	chloromethane	0.437	0.422	3.4	84	0.00
7		Freon-114	1.167	1.136	2.7	80	0.00
8	C	methanol	0.174	0.150	13.8	73	0.00
9	C	vinyl chloride	0.558	0.480	14.0	72	0.00
10	C	1,3-butadiene	0.412	0.390	5.3	81	0.00
11		butane	0.666	0.560	15.9	72	0.00
13	C	bromomethane	0.395	0.329	16.7	70	0.00
14	C	chloroethane	0.214	0.190	11.2	75	0.00
15		ethanol	0.161	0.157	2.5	79	0.00
16		dichlorofluoromethane	0.693	0.523	24.5	68	0.00
17	C	vinyl bromide	0.359	0.293	18.4	69	0.00
18	C	acrolein	0.173	0.133	23.1	64	0.00
19		acetone	0.322	0.318	1.2	87	0.00
20	C	acetonitrile	0.310	0.267	13.9	75	0.00
21		trichlorofluoromethane	0.430	0.361	16.0	71	0.00
22		isopropyl alcohol	0.533	0.436	18.2	72	0.00
23	C	acrylonitrile	0.339	0.275	18.9	70	0.00
24		pentane	0.667	0.553	17.1	71	0.00
25		ethyl ether	0.435	0.361	17.0	71	0.00
26	C	1,1-dichloroethene	0.827	0.825	0.2	81	0.00
27		tertiary butyl alcohol	1.202	1.070	11.0	72	0.00
28	C	methylene chloride	0.793	0.806	-1.6	86	0.00
29	C	3-chloropropene	1.074	1.082	-0.7	86	0.00
30	C	carbon disulfide	2.198	2.151	2.1	83	0.00
31		Freon 113	1.205	1.223	-1.5	84	0.00
32		trans-1,2-dichloroethene	1.022	0.930	9.0	77	0.00
33	C	1,1-dichloroethane	1.305	1.214	7.0	77	0.00
34	C	MTBE	1.895	1.777	6.2	79	0.00
35	C	vinyl acetate	1.461	1.164	20.3	68	0.00
36	C	2-butanone	1.624	1.408	13.3	71	0.00
37		cis-1,2-dichloroethene	0.930	0.862	7.3	77	0.00
38		Ethyl Acetate	0.253	0.259	-2.4	84	0.00
39	C	chloroform	1.147	0.995	13.3	71	0.00
40		Tetrahydrofuran	1.033	0.946	8.4	78	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221900.D
Acq On : 30 Nov 2023 4:23 PM
Operator : AIRLAB22:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	0.913	0.682	25.3	60#	0.00
42	C	1,2-dichloroethane	0.652	0.440	32.5#	57#	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	86	0.00
44	C	hexane	0.354	0.357	-0.8	84	0.00
45		diisopropyl ether	0.222	0.205	7.7	75	0.00
46		tert-butyl ethyl ether	0.655	0.543	17.1	68	0.00
47	s	1,2-dichloroethane-D4	0.273	0.201	26.4	60#	0.00
48	C	1,1,1-trichloroethane	0.277	0.213	23.1	63	0.00
49		1,1-dichloropropene	0.298	0.272	8.7	75	0.00
50	C	benzene	0.746	0.729	2.3	81	0.00
52	C	carbon tetrachloride	0.248	0.190	23.4	62	0.00
53		cyclohexane	0.405	0.405	0.0	87	0.00
54		tert-amyl methyl ether	0.652	0.587	10.0	75	0.00
55		dibromomethane	0.179	0.166	7.3	76	0.00
56	C	1,2-dichloropropane	0.244	0.243	0.4	81	0.00
57		bromodichloromethane	0.324	0.294	9.3	75	0.00
58	C	1,4-dioxane	0.163	0.169	-3.7	87	0.00
59	C	trichloroethene	0.295	0.305	-3.4	83	0.00
60	C	2,2,4-trimethylpentane	1.128	1.153	-2.2	85	0.00
61		methyl methacrylate	0.243	0.226	7.0	75	0.00
62		heptane	0.446	0.439	1.6	82	0.00
63	C	cis-1,3-dichloropropene	0.356	0.347	2.5	79	0.00
64	C	4-methyl-2-pentanone	0.496	0.480	3.2	78	0.00
65		trans-1,3-dichloropropene	0.292	0.253	13.4	72	0.00
66	C	1,1,2-trichloroethane	0.264	0.269	-1.9	84	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	75	0.00
68	C	toluene	8.341	9.334	-11.9	81	0.00
69	s	toluene-D8	11.925	12.947	-8.6	83	0.00
71		1,3-dichloropropane	3.773	3.758	0.4	72	0.00
72		2-hexanone	4.893	4.893	0.0	74	0.00
74		dibromochloromethane	3.317	3.682	-11.0	82	0.00
75	C	1,2-dibromoethane	3.674	4.001	-8.9	80	0.00
76		butyl acetate	1.221	1.239	-1.5	74	0.00
77		octane	3.408	3.691	-8.3	77	0.00
78	C	tetrachloroethene	3.236	3.714	-14.8	82	0.00
79		1,1,1,2-tetrachloroethane	2.579	2.576	0.1	71	0.00
80	C	chlorobenzene	6.452	7.289	-13.0	81	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221900.D
Acq On : 30 Nov 2023 4:23 PM
Operator : AIRLAB22:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	C	ethylbenzene	10.089	10.965	-8.7	78	0.00
83	C	m+p-xylene	7.856	8.617	-9.7	77	0.00
84	C	bromoform	2.719	3.111	-14.4	82	0.00
85	C	styrene	7.041	8.086	-14.8	81	0.00
86	C	1,1,2,2-tetrachloroethane	5.266	5.915	-12.3	79	0.00
87	C	o-xylene	7.670	8.460	-10.3	77	0.00
88		1,2,3-trichloropropane	4.388	4.331	1.3	71	0.00
89		nonane	6.152	6.176	-0.4	71	0.00
90	s	bromofluorobenzene	6.922	7.319	-5.7	79	0.00
91	C	isopropylbenzene	10.609	11.356	-7.0	76	0.00
92		bromobenzene	5.784	5.999	-3.7	74	0.00
93		2-chlorotoluene	3.252	3.564	-9.6	78	0.00
94		n-propylbenzene	3.785	4.138	-9.3	75	0.00
95		4-chlorotoluene	3.266	3.408	-4.3	74	0.00
96		4-ethyl toluene	11.333	12.472	-10.1	78	0.00
97		1,3,5-trimethylbenzene	9.277	10.557	-13.8	80	0.00
98		tert-butylbenzene	9.219	9.688	-5.1	73	0.00
99		1,2,4-trimethylbenzene	8.866	9.780	-10.3	77	0.00
100		decane	7.401	7.865	-6.3	74	0.00
101	C	Benzyl Chloride	5.322	6.088	-14.4	76	0.00
102		1,3-dichlorobenzene	6.511	7.581	-16.4	80	0.00
103	C	1,4-dichlorobenzene	6.244	7.051	-12.9	77	0.00
104		sec-butylbenzene	13.163	14.142	-7.4	74	0.00
106		p-isopropyltoluene	11.031	11.448	-3.8	72	0.00
107		1,2-dichlorobenzene	6.119	6.877	-12.4	76	0.00
108		n-butylbenzene	9.879	10.783	-9.2	75	0.00
111	C	1,2-dibromo-3-chloropropane	2.162	2.005	7.3	65	0.00
112		undecane	7.983	8.839	-10.7	74	0.00
114		dodecane	7.434	8.480	-14.1	73	0.00
115	C	1,2,4-trichlorobenzene	4.807	5.382	-12.0	70	0.00
116		naphthalene	11.660	12.372	-6.1	68	0.00
117		1,2,3-trichlorobenzene	4.229	4.704	-11.2	71	0.00
119	C	hexachlorobutadiene	3.689	3.973	-7.7	73	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221900.D
Acq On : 30 Nov 2023 4:23 PM
Operator : AIRLAB22:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	163418	10.000	ppbV	0.00
Standard Area = 192875			Recovery = 84.73%			
43) 1,4-difluorobenzene	5.377	114	579275	10.000	ppbV	0.00
Standard Area = 676282			Recovery = 85.66%			
67) chlorobenzene-D5	7.347	54	52212	10.000	ppbV	0.00
Standard Area = 69834			Recovery = 74.77%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	116431	7.355	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 73.55%			
69) toluene-D8	6.500	98	676008	10.857	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.57%			
90) bromofluorobenzene	8.047	95	382124	10.573	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.73%			
Target Compounds						Qvalue
2) chlorodifluoromethane	2.140	51	145879	13.383	ppbV #	93
3) propylene	2.160	41	106770M6	12.120	ppbV	
4) propane	2.175	29	62758	8.845	ppbV #	94
5) dichlorodifluoromethane	2.205	85	103914	7.895	ppbV	99
6) chloromethane	2.305	50	69035	9.667	ppbV	100
7) Freon-114	2.365	85	185635	9.737	ppbV	97
8) methanol	2.390	31	122577	43.037	ppbV #	83
9) vinyl chloride	2.435	62	78522	8.610	ppbV	99
10) 1,3-butadiene	2.505	54	63800	9.471	ppbV	96
11) butane	2.535	43	91448	8.398	ppbV	99
13) bromomethane	2.630	94	53845	8.344	ppbV	99
14) chloroethane	2.710	64	31090	8.879	ppbV	99
15) ethanol	2.745	31	128113	48.809	ppbV	94
16) dichlorofluoromethane	2.745	67	85435	7.548	ppbV	99
17) vinyl bromide	2.863	106	47946	8.170	ppbV	98
18) acrolein	2.911	56	21741	7.709	ppbV	98
19) acetone	2.968	43	259530	49.363	ppbV	95
20) acetonitrile	2.848	41	43635	8.625	ppbV	97
21) trichlorofluoromethane	3.055	101	59017	8.406	ppbV	99
22) isopropyl alcohol	3.079	45	178307	20.455	ppbV	100
23) acrylonitrile	3.187	53	44983	8.127	ppbV	98
24) pentane	3.223	43	90360	8.286	ppbV	97
25) ethyl ether	3.229	31	58984	8.302	ppbV	95

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221900.D
Acq On : 30 Nov 2023 4:23 PM
Operator : AIRLAB22:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) 1,1-dichloroethene	3.355	61	134846	9.982	ppbV		90
27) tertiary butyl alcohol	3.370	59	174800	8.902	ppbV		97
28) methylene chloride	3.415	49	131744	10.170	ppbV		100
29) 3-chloropropene	3.470	41	176823	10.076	ppbV		93
30) carbon disulfide	3.560	76	351548	9.789	ppbV		96
31) Freon 113	3.540	101	199843	10.150	ppbV		99
32) trans-1,2-dichloroethene	3.863	61	151932	9.093	ppbV		86
33) 1,1-dichloroethane	3.963	63	198466	9.307	ppbV		99
34) MTBE	3.990	73	290320	9.373	ppbV		96
35) vinyl acetate	4.030	43	190160	7.963	ppbV		96
36) 2-butanone	4.150	43	230142	8.674	ppbV		94
37) cis-1,2-dichloroethene	4.370	61	140813	9.268	ppbV		90
38) Ethyl Acetate	4.470	61	42297	10.245	ppbV		78
39) chloroform	4.510	83	162642	8.681	ppbV		99
40) Tetrahydrofuran	4.697	42	154673	9.159	ppbV		92
41) 2,2-dichloropropane	4.523	77	111418	7.467	ppbV	#	96
42) 1,2-dichloroethane	4.863	62	71887	6.748	ppbV	#	87
44) hexane	4.470	57	206996	10.104	ppbV		83
45) diisopropyl ether	4.463	87	118870	9.255	ppbV		96
46) tert-butyl ethyl ether	4.723	59	314275	8.281	ppbV		96
48) 1,1,1-trichloroethane	4.990	97	123606	7.712	ppbV	#	97
49) 1,1-dichloropropene	5.143	75	157278	9.109	ppbV		93
50) benzene	5.210	78	422350	9.774	ppbV		99
52) carbon tetrachloride	5.283	117	110104	7.662	ppbV		100
53) cyclohexane	5.343	56	234696	10.006	ppbV		98
54) tert-amyl methyl ether	5.490	73	340212	9.006	ppbV		96
55) dibromomethane	5.583	93	96083	9.252	ppbV		99
56) 1,2-dichloropropane	5.597	63	140663	9.972	ppbV		98
57) bromodichloromethane	5.690	83	170527	9.083	ppbV		100
58) 1,4-dioxane	5.703	88	98154	10.408	ppbV		98
59) trichloroethene	5.710	130	176940	10.360	ppbV		99
60) 2,2,4-trimethylpentane	5.723	57	667991	10.219	ppbV		95
61) methyl methacrylate	5.797	41	130830	9.279	ppbV		87
62) heptane	5.843	43	254457	9.849	ppbV		97
63) cis-1,3-dichloropropene	6.100	75	200971	9.756	ppbV	#	92
64) 4-methyl-2-pentanone	6.113	43	277780	9.670	ppbV		96
65) trans-1,3-dichloropropene	6.340	75	146744	8.680	ppbV		97
66) 1,1,2-trichloroethane	6.420	97	156094	10.221	ppbV		96
68) toluene	6.547	91	487325	11.189	ppbV		100
71) 1,3-dichloropropane	6.560	76	196226	9.960	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221900.D
Acq On : 30 Nov 2023 4:23 PM
Operator : AIRLAB22:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
72) 2-hexanone	6.660	43	255487	10.000	ppbV		95
74) dibromochloromethane	6.740	129	192266	11.103	ppbV		100
75) 1,2-dibromoethane	6.853	107	208912	10.891	ppbV		99
76) butyl acetate	6.940	73	64715	10.151	ppbV		91
77) octane	6.987	85	192739	10.831	ppbV		96
78) tetrachloroethene	7.060	166	193937	11.477	ppbV		98
79) 1,1,1,2-tetrachloroethane	7.353	131	134498	9.987	ppbV		98
80) chlorobenzene	7.367	112	380550	11.297	ppbV		98
81) ethylbenzene	7.533	91	572518	10.868	ppbV		99
83) m+p-xylene	7.613	91	899838	21.938	ppbV		97
84) bromoform	7.653	173	162442	11.442	ppbV		99
85) styrene	7.780	104	422176	11.484	ppbV		97
86) 1,1,2,2-tetrachloroethane	7.827	83	308834	11.232	ppbV		99
87) o-xylene	7.833	91	441727	11.030	ppbV		99
88) 1,2,3-trichloropropane	7.887	75	226150	9.871	ppbV		98
89) nonane	7.927	43	322468	10.040	ppbV		96
91) isopropylbenzene	8.107	105	592932	10.704	ppbV		99
92) bromobenzene	8.153	77	313232	10.372	ppbV		93
93) 2-chlorotoluene	8.340	126	186069	10.959	ppbV	#	54
94) n-propylbenzene	8.353	120	216054	10.931	ppbV		82
95) 4-chlorotoluene	8.380	126	177932	10.434	ppbV		89
96) 4-ethyl toluene	8.427	105	651203	11.006	ppbV		99
97) 1,3,5-trimethylbenzene	8.467	105	551209	11.379	ppbV		97
98) tert-butylbenzene	8.677	119	505842	10.509	ppbV		99
99) 1,2,4-trimethylbenzene	8.677	105	510624	11.031	ppbV		94
100) decane	8.717	57	410664	10.627	ppbV		96
101) Benzyl Chloride	8.750	91	317890	11.439	ppbV		97
102) 1,3-dichlorobenzene	8.757	146	395798	11.643	ppbV		95
103) 1,4-dichlorobenzene	8.790	146	368168	11.293	ppbV		94
104) sec-butylbenzene	8.810	105	738362	10.743	ppbV		98
106) p-isopropyltoluene	8.890	119	597716	10.377	ppbV		95
107) 1,2-dichlorobenzene	8.970	146	359046	11.239	ppbV		98
108) n-butylbenzene	9.110	91	562990	10.915	ppbV		99
111) 1,2-dibromo-3-chloropr...	9.197	75	104694	9.274	ppbV		91
112) undecane	9.370	57	461519	11.073	ppbV		99
114) dodecane	9.918	57	442774	11.408	ppbV		99
115) 1,2,4-trichlorobenzene	9.857	180	281030	11.197	ppbV		99
116) naphthalene	9.918	128	645967	10.611	ppbV		99
117) 1,2,3-trichlorobenzene	10.053	180	245615	11.122	ppbV		98
119) hexachlorobutadiene	10.098	225	207442	10.769	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221900.D
Acq On : 30 Nov 2023 4:23 PM
Operator : AIRLAB22:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default-ICV-AP2 - All compounds listed

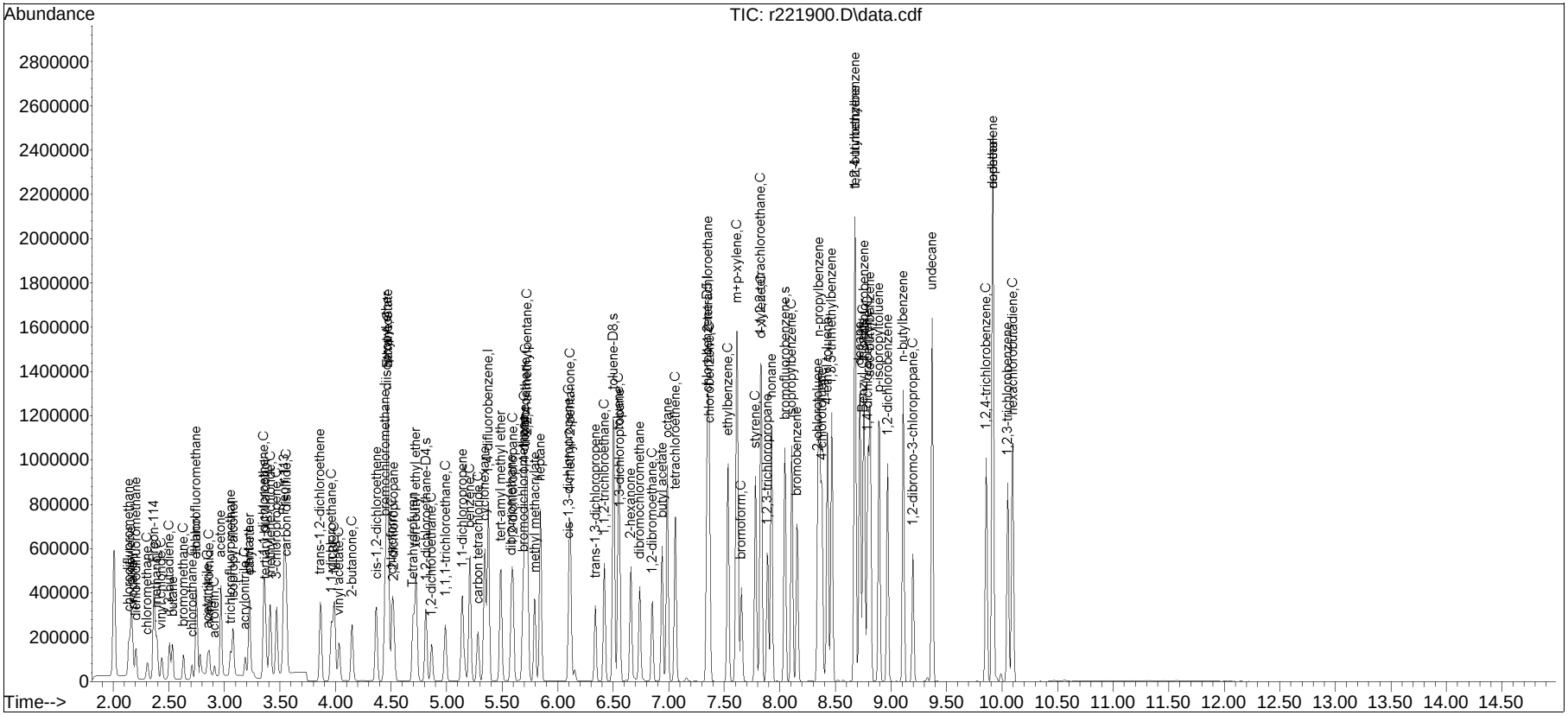
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Sub List : Default-ICV-AP2 - All compounds listed9T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221900.D
Acq On : 30 Nov 2023 4:23 PM
Operator : AIRLAB22:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

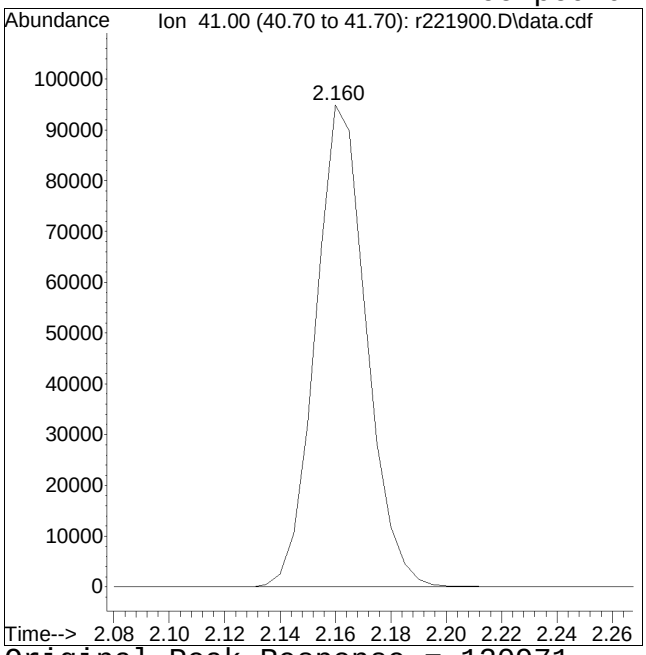


Manual Integration Report

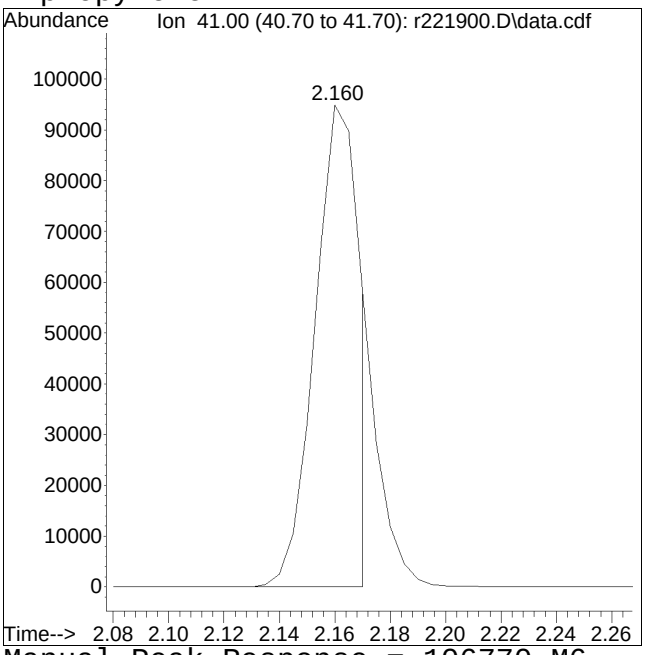
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221900.D
Date Inj'd : 11/30/2020 0:4: 3
Sample : CTO15-LLSTD10.0

Method : TFS22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 12/1/2023 8:47 am

Compound #3: propylene



Original Peak Response = 120971



Manual Peak Response = 106770 M6

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

Continuing Calibration

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2409206	
Project Name	: GROW NYC		**Project Number**	: 210121	
Instrument ID	: AIRLAB15		**Calibration Date**	: 02/26/24 11:49	
Lab File ID	: R1543050		**Init. Calib. Date(s)**	: 11/20/23	11/21/23
Sample No	: WG1889452-2		**Init. Calib. Times**	: 21:44	02:20
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	70	0
chlorodifluoromethane	0.963	0.931	-	3.3	30	70	-.06
propylene	0.534	0.513	-	3.9	30	70	-.06
propane	0.698	0.717	-	-2.7	30	71	-.06
dichlorodifluoromethane	1.139	1.268	-	-11.3	30	78	-.05
chloromethane	0.428	0.477	-	-11.4	30	79	-.05
Freon-114	1.103	1.214	-	-10.1	30	76	-.05
methanol	0.228	0.246	-	-7.9	30	73	-.05
vinyl chloride	0.625	0.699	-	-11.8	30	77	-.05
1,3-butadiene	0.419	0.438	-	-4.5	30	73	-.05
butane	0.753	0.874	-	-16.1	30	87	-.05
bromomethane	0.5	0.532	-	-6.4	30	73	-.04
chloroethane	0.307	0.335	-	-9.1	30	78	-.04
ethanol	0.376	0.363	-	3.5	30	60	-.03
dichlorofluoromethane	0.989	1.161	-	-17.4	30	85	-.04
vinyl bromide	0.462	0.511	-	-10.6	30	80	-.04
acrolein	0.232	0.221	-	4.7	30	66	-.03
acetone	0.564	0.735	-	-30.3*	30	94	-.03
acetonitrile	0.477	0.529	-	-10.9	30	84	-.03
trichlorofluoromethane	0.851	1.053	-	-23.7	30	85	-.03
isopropyl alcohol	0.711	0.802	-	-12.8	30	84	-.02
acrylonitrile	0.507	0.481	-	5.1	30	69	-.02
pentane	1.206	1.237	-	-2.6	30	73	-.02
ethyl ether	1.172	1.207	-	-3	30	72	-.02
1,1-dichloroethene	0.981	1.091	-	-11.2	30	79	-.02
tertiary butyl alcohol	1.205	1.104	-	8.4	30	67	0
methylene chloride	0.771	0.735	-	4.7	30	66	-.02
3-chloropropene	0.869	0.865	-	0.5	30	72	-.02
carbon disulfide	1.811	1.714	-	5.4	30	66	-.02
Freon 113	1.116	1.182	-	-5.9	30	76	-.02
trans-1,2-dichloroethene	0.982	1.032	-	-5.1	30	77	-.02
1,1-dichloroethane	1.238	1.345	-	-8.6	30	78	0
MTBE	1.494	1.367	-	8.5	30	66	0
vinyl acetate	1.261	1.241	-	1.6	30	73	0
2-butanone	1.329	1.33	-	-0.1	30	73	0
cis-1,2-dichloroethene	0.937	1.026	-	-9.5	30	77	0
Ethyl Acetate	0.248	0.26	-	-4.8	30	76	0
chloroform	1.226	1.224	-	0.2	30	68	0
Tetrahydrofuran	0.83	0.813	-	2	30	71	0
2,2-dichloropropane	0.834	0.813	-	2.5	30	68	0
1,2-dichloroethane	0.743	0.906	-	-21.9	30	86	0
1,4-difluorobenzene	1	1	-	0	30	70	.01
hexane	0.437	0.48	-	-9.8	30	76	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2409206	
Project Name	: GROW NYC		**Project Number**	: 210121	
Instrument ID	: AIRLAB15		**Calibration Date**	: 02/26/24 11:49	
Lab File ID	: R1543050		**Init. Calib. Date(s)**	: 11/20/23	11/21/23
Sample No	: WG1889452-2		**Init. Calib. Times**	: 21:44	02:20
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.221	0.197	-	10.9	30	61	0
tert-butyl ethyl ether	0.75	0.715	-	4.7	30	66	0
1,1,1-trichloroethane	0.323	0.387	-	-19.8	30	83	0
1,1-dichloropropene	0.325	0.306	-	5.8	30	66	.01
benzene	0.809	0.776	-	4.1	30	66	.01
carbon tetrachloride	0.301	0.33	-	-9.6	30	72	.01
cyclohexane	0.477	0.495	-	-3.8	30	73	.02
tert-amyl methyl ether	0.607	0.503	-	17.1	30	58	.01
dibromomethane	0.235	0.24	-	-2.1	30	72	.01
1,2-dichloropropane	0.294	0.316	-	-7.5	30	75	.01
bromodichloromethane	0.404	0.414	-	-2.5	30	69	.01
1,4-dioxane	0.187	0.173	-	7.5	30	65	.01
trichloroethene	0.319	0.323	-	-1.3	30	70	.01
2,2,4-trimethylpentane	1.456	1.586	-	-8.9	30	75	.01
methyl methacrylate	0.277	0.302	-	-9	30	76	.01
heptane	0.481	0.507	-	-5.4	30	74	.01
cis-1,3-dichloropropene	0.377	0.364	-	3.4	30	63	.02
4-methyl-2-pentanone	0.545	0.56	-	-2.8	30	70	0
trans-1,3-dichloropropene	0.301	0.292	-	3	30	62	0
1,1,2-trichloroethane	0.292	0.304	-	-4.1	30	72	0
chlorobenzene-D5	1	1	-	0	30	76	-.03
toluene	5.734	5.513	-	3.9	30	73	0
1,3-dichloropropane	2.549	2.23	-	12.5	30	68	0
2-hexanone	3.051	2.823	-	7.5	30	71	0
dibromochloromethane	2.23	2.235	-	-0.2	30	74	0
1,2-dibromoethane	2.593	2.395	-	7.6	30	71	0
butyl acetate	0.626	0.498	-	20.4	30	61	-.02
octane	2.251	1.874	-	16.7	30	64	-.03
tetrachloroethene	2.301	1.985	-	13.7	30	66	-.02
1,1,1,2-tetrachloroethane	1.812	1.698	-	6.3	30	71	-.02
chlorobenzene	4.481	3.966	-	11.5	30	66	-.02
ethylbenzene	7.343	7.032	-	4.2	30	72	-.02
m+p-xylene	5.792	5.909	-	-2	30	75	-.03
bromoform	1.938	1.863	-	3.9	30	70	-.03
styrene	4.694	4.235	-	9.8	30	68	-.03
1,1,2,2-tetrachloroethane	4.357	4.004	-	8.1	30	65	-.03
o-xylene	5.778	5.969	-	-3.3	30	74	-.04
1,2,3-trichloropropane	3.231	2.781	-	13.9	30	66	-.04
nonane	4.585	4.288	-	6.5	30	71	-.04
isopropylbenzene	7.342	6.61	-	10	30	69	-.04
bromobenzene	4.272	3.599	-	15.8	30	64	-.05
2-chlorotoluene	2.221	1.855	-	16.5	30	63	-.05
n-propylbenzene	2.613	2.179	-	16.6	30	62	-.05

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2409206	
Project Name	: GROW NYC		**Project Number**	: 210121	
Instrument ID	: AIRLAB15		**Calibration Date**	: 02/26/24 11:49	
Lab File ID	: R1543050		**Init. Calib. Date(s)**	: 11/20/23	11/21/23
Sample No	: WG1889452-2		**Init. Calib. Times**	: 21:44	02:20
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.232	1.901	-	14.8	30	65	-.04
4-ethyl toluene	7.753	7.401	-	4.5	30	72	-.05
1,3,5-trimethylbenzene	7.201	7.417	-	-3	30	71	-.05
tert-butylbenzene	7.043	6.271	-	11	30	64	-.05
1,2,4-trimethylbenzene	6.485	6.669	-	-2.8	30	71	-.05
decane	6.136	6.163	-	-0.4	30	72	-.06
Benzyl Chloride	3.901	3.68	-	5.7	30	65	-.06
1,3-dichlorobenzene	4.602	4.439	-	3.5	30	70	-.05
1,4-dichlorobenzene	4.546	4.465	-	1.8	30	71	-.06
sec-butylbenzene	9.447	9.093	-	3.7	30	72	-.06
p-isopropyltoluene	7.897	7.241	-	8.3	30	73	-.05
1,2-dichlorobenzene	4.329	4.233	-	2.2	30	69	-.05
n-butylbenzene	7.571	7.546	-	0.3	30	70	-.06
1,2-dibromo-3-chloropropan	1.54	1.501	-	2.5	30	69	-.06
undecane	6.581	6.901	-	-4.9	30	70	-.06
dodecane	6.085	7.07	-	-16.2	30	69	-.07
1,2,4-trichlorobenzene	3.363	3.393	-	-0.9	30	63	-.06
naphthalene	8.774	8.357	-	4.8	30	63	-.06
1,2,3-trichlorobenzene	2.982	2.799	-	6.1	30	62	-.06
hexachlorobutadiene	2.852	3.007	-	-5.4	30	68	-.06

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2409206	
Project Name	: GROW NYC		**Project Number**	: 210121	
Instrument ID	: AIRLAB22		**Calibration Date**	: 03/01/24 12:49	
Lab File ID	: R222756		**Init. Calib. Date(s)**	: 11/29/23	11/30/23
Sample No	: WG1891258-2		**Init. Calib. Times**	: 22:39	02:24
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	103	-.02
chlorodifluoromethane	0.667	0.713	-	-6.9	30	101	-.02
propylene	0.539	0.533	-	1.1	30	110	-.01
propane	0.434	0.428	-	1.4	30	109	0
dichlorodifluoromethane	0.805	0.955	-	-18.6	30	129	0
chloromethane	0.437	0.47	-	-7.6	30	113	-.01
Freon-114	1.167	1.294	-	-10.9	30	111	-.01
methanol	0.174	0.207	-	-19	30	122	-.01
vinyl chloride	0.558	0.632	-	-13.3	30	115	0
1,3-butadiene	0.412	0.491	-	-19.2	30	124	0
butane	0.666	0.836	-	-25.5	30	131	-.01
bromomethane	0.395	0.447	-	-13.2	30	116	0
chloroethane	0.214	0.259	-	-21	30	125	0
ethanol	0.161	0.216	-	-34.2*	30	132	-.02
dichlorofluoromethane	0.693	0.927	-	-33.8*	30	146	0
vinyl bromide	0.359	0.415	-	-15.6	30	120	-.01
acrolein	0.173	0.208	-	-20.2	30	122	-.01
acetone	0.322	0.4	-	-24.2	30	133	-.02
acetonitrile	0.31	0.373	-	-20.3	30	129	-.01
trichlorofluoromethane	0.43	0.523	-	-21.6	30	125	-.01
isopropyl alcohol	0.533	0.66	-	-23.8	30	133	-.02
acrylonitrile	0.339	0.384	-	-13.3	30	119	-.02
pentane	0.667	0.831	-	-24.6	30	130	-.01
ethyl ether	0.435	0.536	-	-23.2	30	129	-.02
1,1-dichloroethene	0.827	0.898	-	-8.6	30	107	-.01
tertiary butyl alcohol	1.202	1.263	-	-5.1	30	103	-.02
methylene chloride	0.793	0.736	-	7.2	30	96	-.02
3-chloropropene	1.074	1.053	-	2	30	103	-.02
carbon disulfide	2.198	2.059	-	6.3	30	97	-.02
Freon 113	1.205	1.138	-	5.6	30	96	-.02
trans-1,2-dichloroethene	1.022	1.002	-	2	30	101	-.02
1,1-dichloroethane	1.305	1.248	-	4.4	30	97	-.01
MTBE	1.895	1.855	-	2.1	30	100	-.02
vinyl acetate	1.461	1.474	-	-0.9	30	106	-.02
2-butanone	1.624	1.567	-	3.5	30	97	-.02
cis-1,2-dichloroethene	0.93	0.916	-	1.5	30	100	-.02
Ethyl Acetate	0.253	0.257	-	-1.6	30	101	-.01
chloroform	1.147	1.184	-	-3.2	30	103	-.01
Tetrahydrofuran	1.033	1.042	-	-0.9	30	104	-.02
2,2-dichloropropane	0.913	0.967	-	-5.9	30	104	-.01
1,2-dichloroethane	0.652	0.732	-	-12.3	30	116	-.02
1,4-difluorobenzene	1	1	-	0	30	92	-.02
hexane	0.354	0.416	-	-17.5	30	106	-.01

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2409206	
Project Name	: GROW NYC		**Project Number**	: 210121	
Instrument ID	: AIRLAB22		**Calibration Date**	: 03/01/24 12:49	
Lab File ID	: R222756		**Init. Calib. Date(s)**	: 11/29/23	11/30/23
Sample No	: WG1891258-2		**Init. Calib. Times**	: 22:39	02:24
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.222	0.234	-	-5.4	30	93	-.01
tert-butyl ethyl ether	0.655	0.745	-	-13.7	30	100	-.01
1,1,1-trichloroethane	0.277	0.329	-	-18.8	30	105	-.02
1,1-dichloropropene	0.298	0.363	-	-21.8	30	108	-.02
benzene	0.746	0.778	-	-4.3	30	93	-.02
carbon tetrachloride	0.248	0.298	-	-20.2	30	105	-.02
cyclohexane	0.405	0.443	-	-9.4	30	102	-.02
tert-amyl methyl ether	0.652	0.679	-	-4.1	30	93	-.02
dibromomethane	0.179	0.198	-	-10.6	30	98	-.01
1,2-dichloropropane	0.244	0.271	-	-11.1	30	97	-.01
bromodichloromethane	0.324	0.401	-	-23.8	30	110	-.02
1,4-dioxane	0.163	0.177	-	-8.6	30	97	-.02
trichloroethene	0.295	0.31	-	-5.1	30	91	-.02
2,2,4-trimethylpentane	1.128	1.336	-	-18.4	30	106	-.02
methyl methacrylate	0.243	0.298	-	-22.6	30	106	-.02
heptane	0.446	0.536	-	-20.2	30	108	-.01
cis-1,3-dichloropropene	0.356	0.395	-	-11	30	96	-.02
4-methyl-2-pentanone	0.496	0.62	-	-25	30	108	-.01
trans-1,3-dichloropropene	0.292	0.316	-	-8.2	30	96	-.02
1,1,2-trichloroethane	0.264	0.278	-	-5.3	30	93	-.01
chlorobenzene-D5	1	1	-	0	30	119	-.01
toluene	8.341	6.908	-	17.2	30	95	-.01
1,3-dichloropropane	3.773	3.237	-	14.2	30	99	-.02
2-hexanone	4.893	4.434	-	9.4	30	106	-.02
dibromochloromethane	3.317	2.928	-	11.7	30	103	-.02
1,2-dibromoethane	3.674	3.025	-	17.7	30	95	-.02
butyl acetate	1.221	0.99	-	18.9	30	93	-.01
octane	3.408	2.951	-	13.4	30	98	-.01
tetrachloroethene	3.236	2.675	-	17.3	30	94	-.02
1,1,1,2-tetrachloroethane	2.579	2.273	-	11.9	30	100	-.02
chlorobenzene	6.452	5.484	-	15	30	96	-.02
ethylbenzene	10.089	8.635	-	14.4	30	97	-.01
m+p-xylene	7.856	7.155	-	8.9	30	102	-.01
bromoform	2.719	2.373	-	12.7	30	100	-.01
styrene	7.041	5.814	-	17.4	30	92	-.01
1,1,2,2-tetrachloroethane	5.266	4.904	-	6.9	30	104	-.01
o-xylene	7.67	7.124	-	7.1	30	103	-.01
1,2,3-trichloropropane	4.388	3.861	-	12	30	101	-.02
nonane	6.152	5.926	-	3.7	30	109	-.01
isopropylbenzene	10.609	9.384	-	11.5	30	99	-.01
bromobenzene	5.784	5.225	-	9.7	30	102	-.02
2-chlorotoluene	3.252	2.852	-	12.3	30	98	-.02
n-propylbenzene	3.785	3.347	-	11.6	30	97	-.02

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2409206	
Project Name	: GROW NYC		**Project Number**	: 210121	
Instrument ID	: AIRLAB22		**Calibration Date**	: 03/01/24 12:49	
Lab File ID	: R222756		**Init. Calib. Date(s)**	: 11/29/23	11/30/23
Sample No	: WG1891258-2		**Init. Calib. Times**	: 22:39	02:24
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	3.266	2.67	-	18.2	30	92	-.02
4-ethyl toluene	11.333	10.281	-	9.3	30	102	-.02
1,3,5-trimethylbenzene	9.277	8.684	-	6.4	30	104	-.01
tert-butylbenzene	9.219	8.874	-	3.7	30	106	-.01
1,2,4-trimethylbenzene	8.866	8.587	-	3.1	30	107	-.01
decane	7.401	7.184	-	2.9	30	107	-.02
Benzyl Chloride	5.322	5.284	-	0.7	30	105	-.01
1,3-dichlorobenzene	6.511	5.785	-	11.2	30	97	-.02
1,4-dichlorobenzene	6.244	5.295	-	15.2	30	91	-.02
sec-butylbenzene	13.163	12.304	-	6.5	30	103	-.02
p-isopropyltoluene	11.031	10.807	-	2	30	108	-.02
1,2-dichlorobenzene	6.119	5.332	-	12.9	30	94	-.01
n-butylbenzene	9.879	9.597	-	2.9	30	106	-.01
1,2-dibromo-3-chloropropan	2.162	2.286	-	-5.7	30	118	-.01
undecane	7.983	8.262	-	-3.5	30	110	-.01
dodecane	7.434	8.339	-	-12.2	30	114	-.02
1,2,4-trichlorobenzene	4.807	4.583	-	4.7	30	95	-.02
naphthalene	11.66	12.324	-	-5.7	30	107	-.02
1,2,3-trichlorobenzene	4.229	4.171	-	1.4	30	100	-.02
hexachlorobutadiene	3.689	3.566	-	3.3	30	104	-.02

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543050.D
Acq On : 26 Feb 2024 11:49 AM
Operator : AIRLAB15:KJD
Sample : WG1889452-2,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:20:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 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	70	0.00
2		chlorodifluoromethane	0.963	0.931	3.3	70	-0.06
3		propylene	0.534	0.513	3.9	70	-0.06
4		propane	0.698	0.717	-2.7	71	-0.06
5		dichlorodifluoromethane	1.139	1.268	-11.3	78	-0.05
6	C	chloromethane	0.428	0.477	-11.4	79	-0.05
7		Freon-114	1.103	1.214	-10.1	76	-0.05
8	C	methanol	0.228	0.246	-7.9	73	-0.05
9	C	vinyl chloride	0.625	0.699	-11.8	77	-0.05
10	C	1,3-butadiene	0.419	0.438	-4.5	73	-0.05
11		butane	0.753	0.874	-16.1	87	-0.05
13	C	bromomethane	0.500	0.532	-6.4	73	-0.04
14	C	chloroethane	0.307	0.335	-9.1	78	-0.04
15		ethanol	0.376	0.363	3.5	60	-0.03
16		dichlorofluoromethane	0.989	1.161	-17.4	85	-0.04
17	C	vinyl bromide	0.462	0.511	-10.6	80	-0.04
18	C	acrolein	0.232	0.221	4.7	66	-0.03
19		acetone	0.564	0.735	-30.3#	94	-0.03
20	C	acetonitrile	0.477	0.529	-10.9	84	-0.03
21		trichlorofluoromethane	0.851	1.053	-23.7	85	-0.03
22		isopropyl alcohol	0.711	0.802	-12.8	84	-0.02
23	C	acrylonitrile	0.507	0.481	5.1	69	-0.02
24		pentane	1.206	1.237	-2.6	73	-0.02
25		ethyl ether	1.172	1.207	-3.0	72	-0.02
26	C	1,1-dichloroethene	0.981	1.091	-11.2	79	-0.02
27		tertiary butyl alcohol	1.205	1.104	8.4	67	0.00
28	C	methylene chloride	0.771	0.735	4.7	66	-0.02
29	C	3-chloropropene	0.869	0.865	0.5	72	-0.02
30	C	carbon disulfide	1.811	1.714	5.4	66	-0.02
31		Freon 113	1.116	1.182	-5.9	76	-0.02
32		trans-1,2-dichloroethene	0.982	1.032	-5.1	77	-0.02
33	C	1,1-dichloroethane	1.238	1.345	-8.6	78	0.00
34	C	MTBE	1.494	1.367	8.5	66	0.00
35	C	vinyl acetate	1.261	1.241	1.6	73	0.00
36	C	2-butanone	1.329	1.330	-0.1	73	0.00
37		cis-1,2-dichloroethene	0.937	1.026	-9.5	77	0.00
38		Ethyl Acetate	0.248	0.260	-4.8	76	0.00
39	C	chloroform	1.226	1.224	0.2	68	0.00
40		Tetrahydrofuran	0.830	0.813	2.0	71	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543050.D
Acq On : 26 Feb 2024 11:49 AM
Operator : AIRLAB15:KJD
Sample : WG1889452-2,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:20:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 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	0.834	0.813	2.5	68	0.00
42	C	1,2-dichloroethane	0.743	0.906	-21.9	86	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	70	0.01
44	C	hexane	0.437	0.480	-9.8	76	0.00
45		diisopropyl ether	0.221	0.197	10.9	61	0.00
46		tert-butyl ethyl ether	0.750	0.715	4.7	66	0.00
48	C	1,1,1-trichloroethane	0.323	0.387	-19.8	83	0.00
49		1,1-dichloropropene	0.325	0.306	5.8	66	0.01
50	C	benzene	0.809	0.776	4.1	66	0.01
52	C	carbon tetrachloride	0.301	0.330	-9.6	72	0.01
53		cyclohexane	0.477	0.495	-3.8	73	0.02
54		tert-amyl methyl ether	0.607	0.503	17.1	58#	0.01
55		dibromomethane	0.235	0.240	-2.1	72	0.01
56	C	1,2-dichloropropane	0.294	0.316	-7.5	75	0.01
57		bromodichloromethane	0.404	0.414	-2.5	69	0.01
58	C	1,4-dioxane	0.187	0.173	7.5	65	0.01
59	C	trichloroethene	0.319	0.323	-1.3	70	0.01
60	C	2,2,4-trimethylpentane	1.456	1.586	-8.9	75	0.01
61		methyl methacrylate	0.277	0.302	-9.0	76	0.01
62		heptane	0.481	0.507	-5.4	74	0.01
63	C	cis-1,3-dichloropropene	0.377	0.364	3.4	63	0.02
64	C	4-methyl-2-pentanone	0.545	0.560	-2.8	70	0.00
65		trans-1,3-dichloropropene	0.301	0.292	3.0	62	0.00
66	C	1,1,2-trichloroethane	0.292	0.304	-4.1	72	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	76	-0.03
68	C	toluene	5.734	5.513	3.9	73	0.00
71		1,3-dichloropropane	2.549	2.230	12.5	68	0.00
72		2-hexanone	3.051	2.823	7.5	71	0.00
74		dibromochloromethane	2.230	2.235	-0.2	74	0.00
75	C	1,2-dibromoethane	2.593	2.395	7.6	71	0.00
76		butyl acetate	0.626	0.498	20.4	61	-0.02
77		octane	2.251	1.874	16.7	64	-0.03
78	C	tetrachloroethene	2.301	1.985	13.7	66	-0.02
79		1,1,1,2-tetrachloroethane	1.812	1.698	6.3	71	-0.02
80	C	chlorobenzene	4.481	3.966	11.5	66	-0.02
81	C	ethylbenzene	7.343	7.032	4.2	72	-0.02
83	C	m+p-xylene	5.792	5.909	-2.0	75	-0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543050.D
Acq On : 26 Feb 2024 11:49 AM
Operator : AIRLAB15:KJD
Sample : WG1889452-2,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:20:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 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	1.938	1.863	3.9	70	-0.03
85	C	styrene	4.694	4.235	9.8	68	-0.03
86	C	1,1,2,2-tetrachloroethane	4.357	4.004	8.1	65	-0.03
87	C	o-xylene	5.778	5.969	-3.3	74	-0.04
88		1,2,3-trichloropropane	3.231	2.781	13.9	66	-0.04
89		nonane	4.585	4.288	6.5	71	-0.04
91	C	isopropylbenzene	7.342	6.610	10.0	69	-0.04
92		bromobenzene	4.272	3.599	15.8	64	-0.05
93		2-chlorotoluene	2.221	1.855	16.5	63	-0.05
94		n-propylbenzene	2.613	2.179	16.6	62	-0.05
95		4-chlorotoluene	2.232	1.901	14.8	65	-0.04
96		4-ethyl toluene	7.753	7.401	4.5	72	-0.05
97		1,3,5-trimethylbenzene	7.201	7.417	-3.0	71	-0.05
98		tert-butylbenzene	7.043	6.271	11.0	64	-0.05
99		1,2,4-trimethylbenzene	6.485	6.669	-2.8	71	-0.05
100		decane	6.136	6.163	-0.4	72	-0.06
101	C	Benzyl Chloride	3.901	3.680	5.7	65	-0.06
102		1,3-dichlorobenzene	4.602	4.439	3.5	70	-0.05
103	C	1,4-dichlorobenzene	4.546	4.465	1.8	71	-0.06
104		sec-butylbenzene	9.447	9.093	3.7	72	-0.06
106		p-isopropyltoluene	7.897	7.241	8.3	73	-0.05
107		1,2-dichlorobenzene	4.329	4.233	2.2	69	-0.05
108		n-butylbenzene	7.571	7.546	0.3	70	-0.06
111	C	1,2-dibromo-3-chloropropane	1.540	1.501	2.5	69	-0.06
112		undecane	6.581	6.901	-4.9	70	-0.06
114		dodecane	6.085	7.070	-16.2	69	-0.07
115	C	1,2,4-trichlorobenzene	3.363	3.393	-0.9	63	-0.06
116		naphthalene	8.774	8.357	4.8	63	-0.06
117		1,2,3-trichlorobenzene	2.982	2.799	6.1	62	-0.06
119	C	hexachlorobutadiene	2.852	3.007	-5.4	68	-0.06

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543050.D
Acq On : 26 Feb 2024 11:49 AM
Operator : AIRLAB15:KJD
Sample : WG1889452-2,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:20:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.175	49	240397	10.000	ppbV	0.00
Standard Area = 240397			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.407	114	687087	10.000	ppbV	# 0.01
Standard Area = 687087			Recovery = 100.00%			
67) chlorobenzene-D5	16.083	54	126242	10.000	ppbV	-0.03
Standard Area = 126242			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) chlorodifluoromethane	3.934	51	223791	9.666	ppbV #	93
3) propylene	3.964	41	123295M6	9.605	ppbV	
4) propane	3.988	29	172257	10.271	ppbV #	96
5) dichlorodifluoromethane	4.042	85	304750	11.131	ppbV	100
6) chloromethane	4.204	50	114575	11.129	ppbV	99
7) Freon-114	4.312	85	291735	11.003	ppbV	95
8) methanol	4.378	31	295327	53.947	ppbV	97
9) vinyl chloride	4.438	62	168078	11.195	ppbV	97
10) 1,3-butadiene	4.582	54	105247	10.460	ppbV #	75
11) butane	4.642	43	210056	11.602	ppbV #	96
13) bromomethane	4.870	94	127922	10.638	ppbV	100
14) chloroethane	5.062	64	80443	10.909	ppbV	99
15) ethanol	5.200	31	436591	48.270	ppbV	91
16) dichlorofluoromethane	5.170	67	279182	11.740	ppbV	100
17) vinyl bromide	5.443	106	122749	11.056	ppbV	99
18) acrolein	5.570	56	53094	9.504	ppbV	99
19) acetone	5.710	43	883872M4	65.139	ppbV	
20) acetonitrile	5.430	41	127244	11.085	ppbV	97
21) trichlorofluoromethane	5.903	101	253079	12.369	ppbV	94
22) isopropyl alcohol	6.000	45	482258	28.209	ppbV	97
23) acrylonitrile	6.233	53	115661	9.491	ppbV	96
24) pentane	6.307	43	297308	10.252	ppbV	99
25) ethyl ether	6.333	31	290134	10.301	ppbV	99
26) 1,1-dichloroethene	6.612	61	262223	11.116	ppbV	93
27) tertiary butyl alcohol	6.678	59	265393	9.165	ppbV #	89
28) methylene chloride	6.756	49	176606	9.526	ppbV	99
29) 3-chloropropene	6.888	41	207827	9.951	ppbV	93
30) carbon disulfide	7.062	76	411974	9.464	ppbV	96
31) Freon 113	7.056	101	284145	10.594	ppbV	88

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543050.D
Acq On : 26 Feb 2024 11:49 AM
Operator : AIRLAB15:KJD
Sample : WG1889452-2,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:20:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) trans-1,2-dichloroethene	7.808	61	248091	10.513	ppbV		97
33) 1,1-dichloroethane	8.033	63	323393	10.871	ppbV		97
34) MTBE	8.108	73	328506	9.146	ppbV		98
35) vinyl acetate	8.225	43	298374	9.841	ppbV		96
36) 2-butanone	8.483	43	319657	10.004	ppbV		97
37) cis-1,2-dichloroethene	8.992	61	246658	10.949	ppbV		94
38) Ethyl Acetate	9.258	61	62425	10.463	ppbV		99
39) chloroform	9.325	83	294161	9.978	ppbV		98
40) Tetrahydrofuran	9.767	42	195367	9.788	ppbV		95
41) 2,2-dichloropropane	9.350	77	195404	9.752	ppbV		88
42) 1,2-dichloroethane	10.167	62	217682	12.191	ppbV	#	93
44) hexane	9.242	57	330051	10.982	ppbV		89
45) diisopropyl ether	9.233	87	135522	8.910	ppbV		95
46) tert-butyl ethyl ether	9.850	59	491028	9.526	ppbV		95
48) 1,1,1-trichloroethane	10.458	97	265841	11.972	ppbV		98
49) 1,1-dichloropropene	10.827	75	210200	9.422	ppbV	#	89
50) benzene	10.987	78	533290	9.590	ppbV		99
52) carbon tetrachloride	11.160	117	226973	10.966	ppbV		97
53) cyclohexane	11.307	56	340247	10.390	ppbV		92
54) tert-amyl methyl ether	11.673	73	345628	8.282	ppbV		98
55) dibromomethane	11.900	93	164748	10.222	ppbV		94
56) 1,2-dichloropropane	11.933	63	217384	10.765	ppbV		97
57) bromodichloromethane	12.160	83	284634	10.263	ppbV		96
58) 1,4-dioxane	12.200	88	118972	9.284	ppbV		89
59) trichloroethene	12.213	130	222224	10.128	ppbV		96
60) 2,2,4-trimethylpentane	12.260	57	1090054	10.896	ppbV		98
61) methyl methacrylate	12.447	41	207440	10.885	ppbV		96
62) heptane	12.573	43	348026	10.532	ppbV		99
63) cis-1,3-dichloropropene	13.225	75	249984	9.644	ppbV	#	90
64) 4-methyl-2-pentanone	13.258	43	384864	10.272	ppbV		99
65) trans-1,3-dichloropropene	13.842	75	200545	9.707	ppbV		92
66) 1,1,2-trichloroethane	14.042	97	208897	10.423	ppbV		90
68) toluene	14.350	91	695910	9.614	ppbV		100
71) 1,3-dichloropropane	14.375	76	281542	8.750	ppbV		87
72) 2-hexanone	14.625	43	356359	9.252	ppbV		100
74) dibromochloromethane	14.783	129	282093	10.019	ppbV		98
75) 1,2-dibromoethane	15.033	107	302297	9.236	ppbV		96
76) butyl acetate	15.258	73	62907	7.957	ppbV		89
77) octane	15.350	85	236518	8.324	ppbV		91
78) tetrachloroethene	15.483	166	250559	8.625	ppbV	#	87

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543050.D
Acq On : 26 Feb 2024 11:49 AM
Operator : AIRLAB15:KJD
Sample : WG1889452-2,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:20:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : Default-LCS-AP2 - All compounds listed

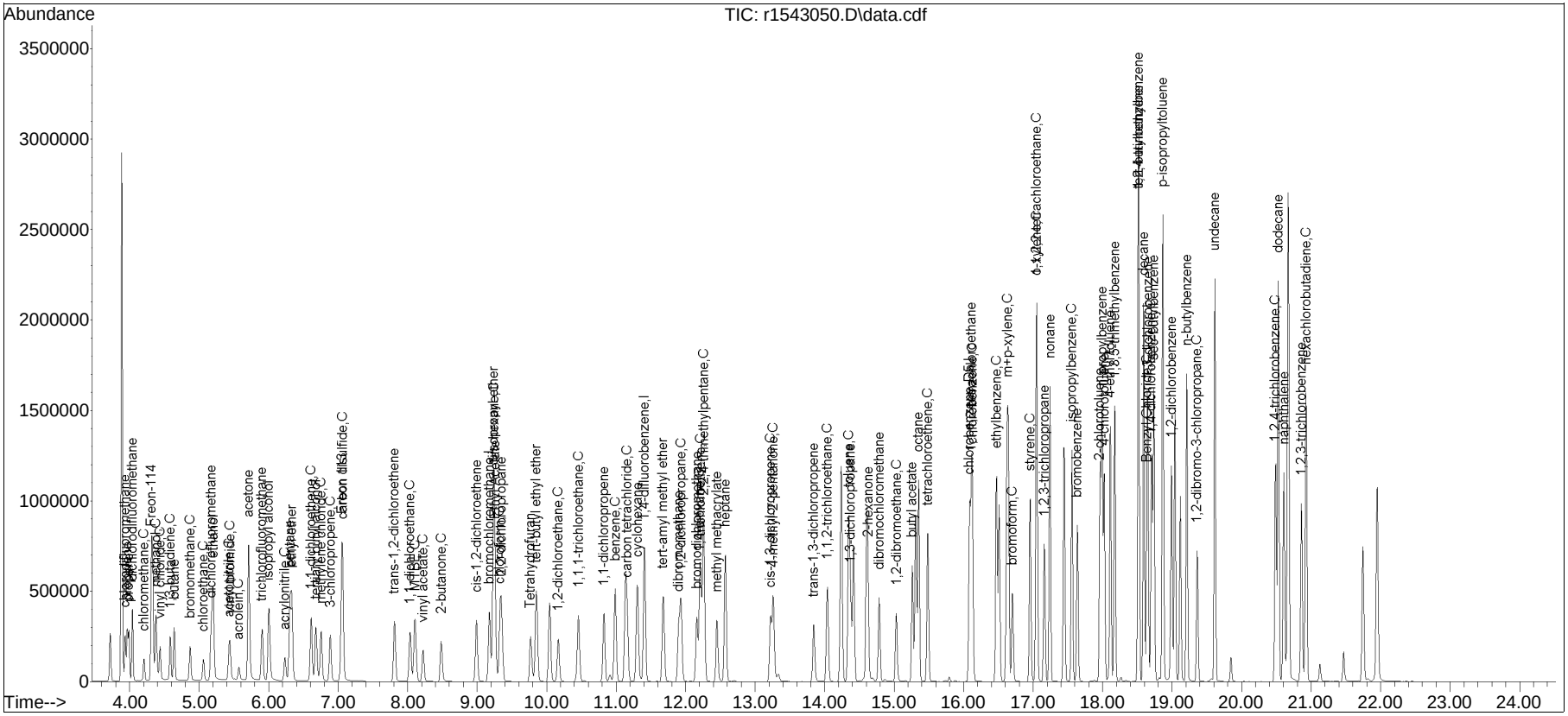
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79) 1,1,1,2-tetrachloroethane	16.108	131	214383	9.374	ppbV		96
80) chlorobenzene	16.125	112	500664	8.850	ppbV		99
81) ethylbenzene	16.475	91	887785	9.576	ppbV		95
83) m+p-xylene	16.633	91	1492052	20.405	ppbV		95
84) bromoform	16.700	173	235224	9.617	ppbV		96
85) styrene	16.958	104	534680	9.023	ppbV		99
86) 1,1,2,2-tetrachloroethane	17.050	83	505480	9.190	ppbV		100
87) o-xylene	17.050	91	753547	10.332	ppbV		97
88) 1,2,3-trichloropropane	17.158	75	351098	8.607	ppbV	#	95
89) nonane	17.242	43	541373	9.354	ppbV		98
91) isopropylbenzene	17.558	105	834502	9.004	ppbV		96
92) bromobenzene	17.633	77	454344	8.425	ppbV		95
93) 2-chlorotoluene	17.958	126	234154M3	8.350	ppbV		
94) n-propylbenzene	17.992	120	275140	8.342	ppbV		72
95) 4-chlorotoluene	18.025	126	240007	8.517	ppbV		81
96) 4-ethyl toluene	18.108	105	934371	9.546	ppbV		95
97) 1,3,5-trimethylbenzene	18.175	105	936310	10.299	ppbV		94
98) tert-butylbenzene	18.517	119	791694	8.904	ppbV		98
99) 1,2,4-trimethylbenzene	18.517	105	841951	10.285	ppbV		94
100) decane	18.592	57	778031	10.044	ppbV		100
101) Benzyl Chloride	18.633	91	464511	9.432	ppbV		96
102) 1,3-dichlorobenzene	18.650	146	560371M3	9.647	ppbV		
103) 1,4-dichlorobenzene	18.700	146	563633	9.821	ppbV		96
104) sec-butylbenzene	18.733	105	1147894	9.625	ppbV		99
106) p-isopropyltoluene	18.867	119	914087	9.169	ppbV		97
107) 1,2-dichlorobenzene	18.992	146	534394	9.778	ppbV		96
108) n-butylbenzene	19.208	91	952607	9.967	ppbV		98
111) 1,2-dibromo-3-chloropr...	19.358	75	189464	9.747	ppbV		91
112) undecane	19.617	57	871160	10.486	ppbV	#	98
114) dodecane	20.525	57	892533	11.619	ppbV		99
115) 1,2,4-trichlorobenzene	20.483	180	428335	10.089	ppbV		96
116) naphthalene	20.608	128	1055056	9.526	ppbV		98
117) 1,2,3-trichlorobenzene	20.858	180	353321	9.385	ppbV		97
119) hexachlorobutadiene	20.925	225	379663	10.546	ppbV		96

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

Sub List : Default-LCS-AP2 - All compounds listed6T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543050.D
Acq On : 26 Feb 2024 11:49 AM
Operator : AIRLAB15:KJD
Sample : WG1889452-2,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

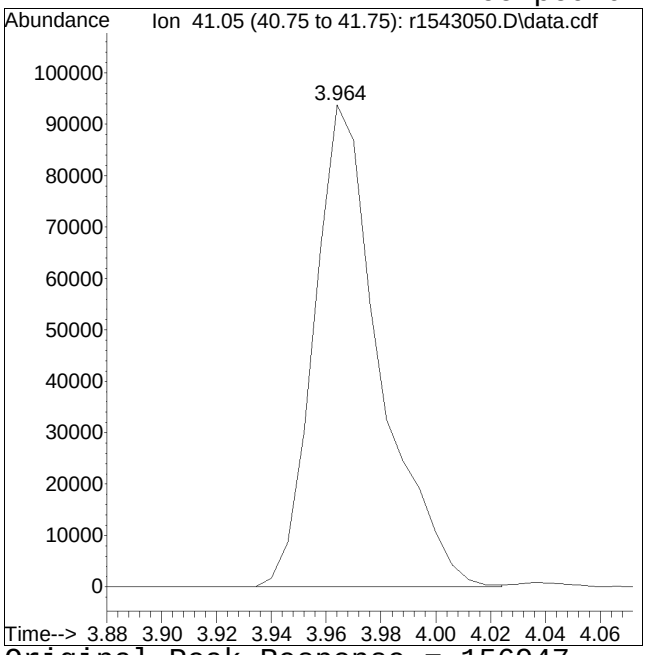
Quant Time: Feb 26 13:20:39 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration



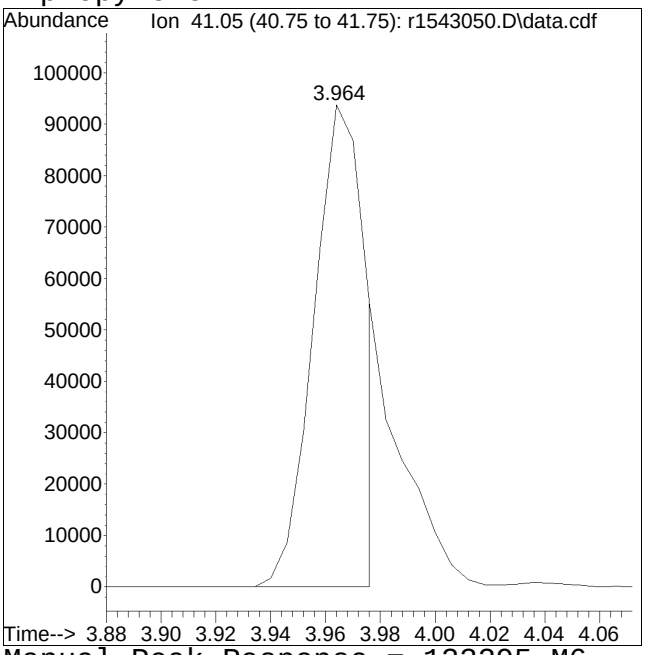
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1543050.D
Date Inj'd : 2/26/2020 0:1: 9
Sample : WG1889452-2,3,250,250,,
Method : TFS15_231120.M
Operator : AIRLAB15:KJD
Instrument :
Quant Date : 2/26/2024 1:20 pm

Compound #3: propylene



Original Peak Response = 156947



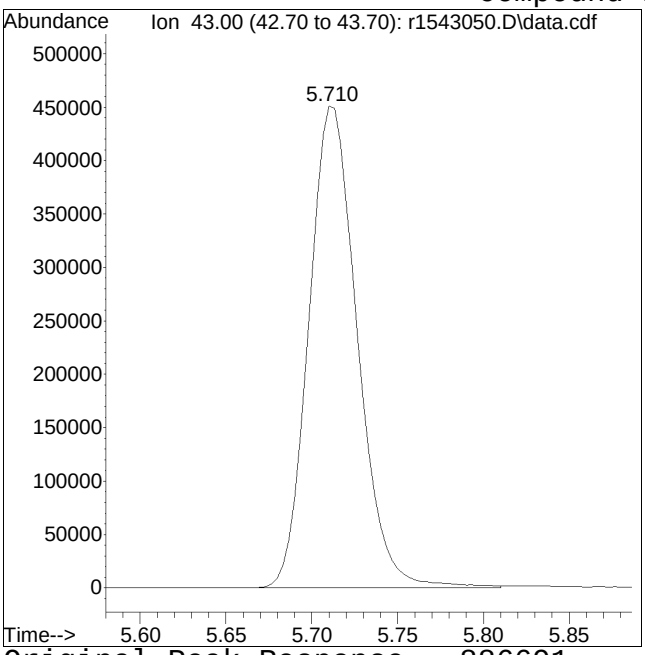
Manual Peak Response = 123295 M6

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

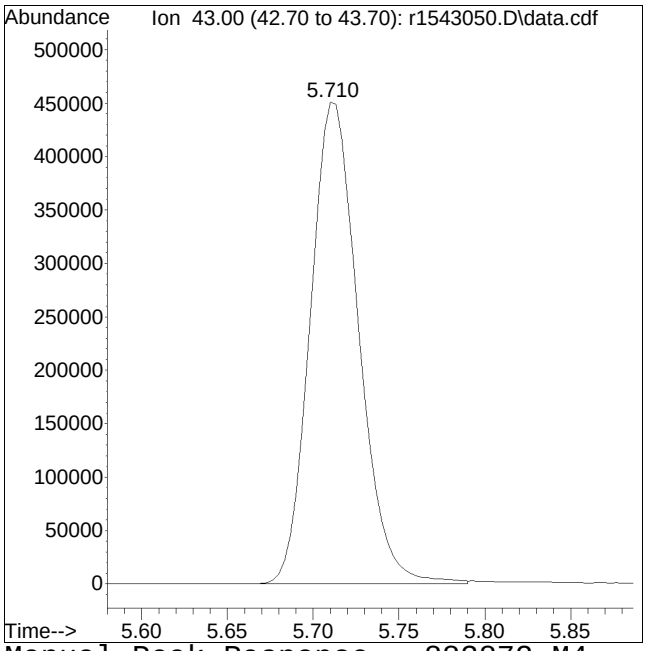
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543050.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 9 Instrument :
Sample : WG1889452-2,3,250,250,, Quant Date : 2/26/2024 1:20 pm

Compound #19: acetone



Original Peak Response = 886691



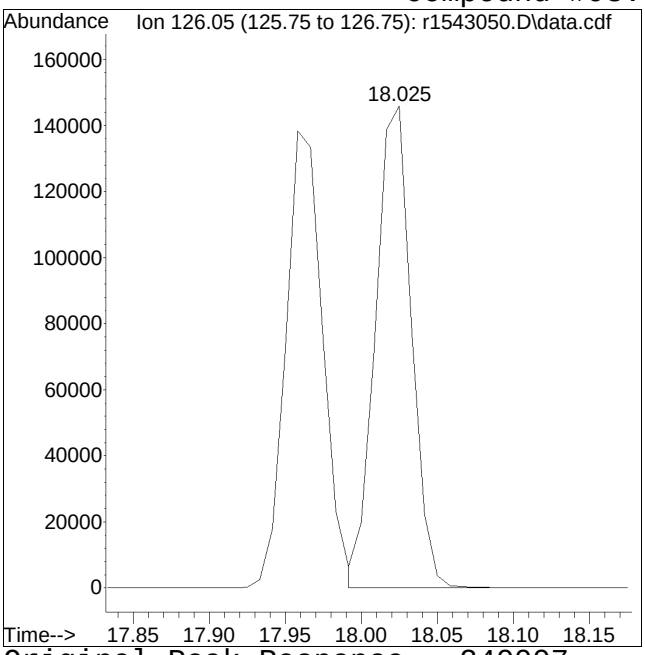
Manual Peak Response = 883872 M4

M4 = Poor automated baseline construction.

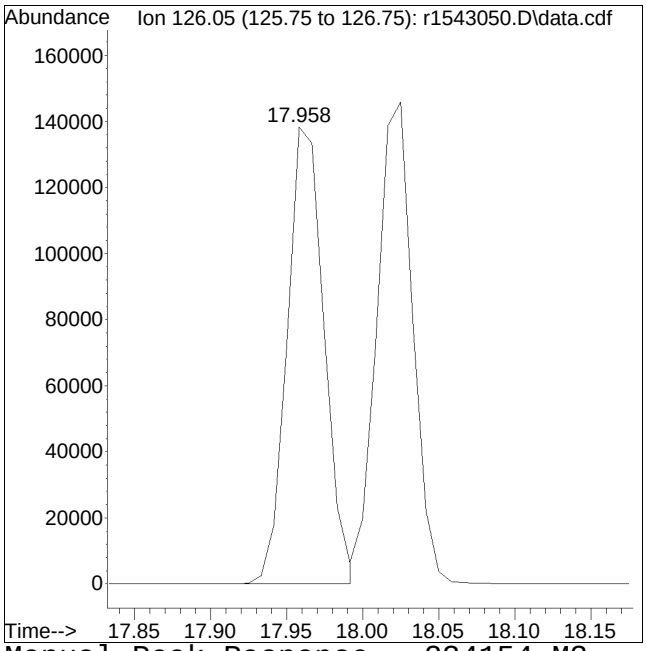
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543050.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 9 Instrument :
Sample : WG1889452-2,3,250,250,, Quant Date : 2/26/2024 1:20 pm

Compound #93: 2-chlorotoluene



Original Peak Response = 240007



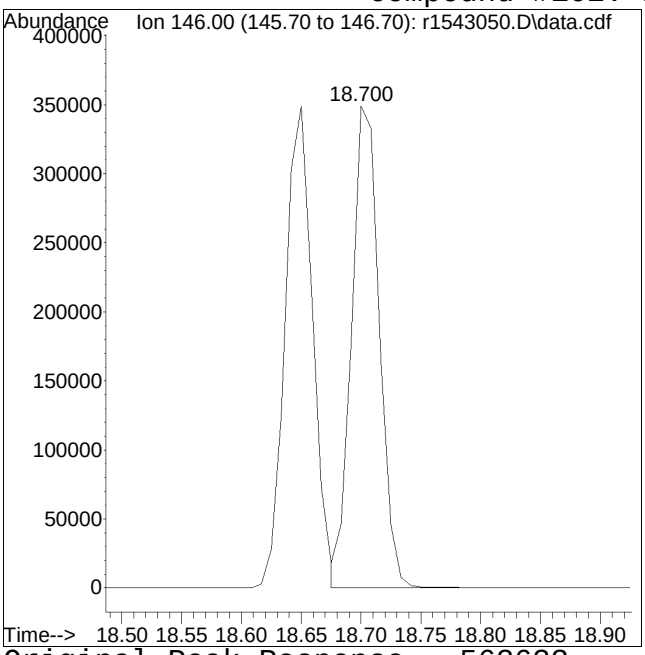
Manual Peak Response = 234154 M3

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

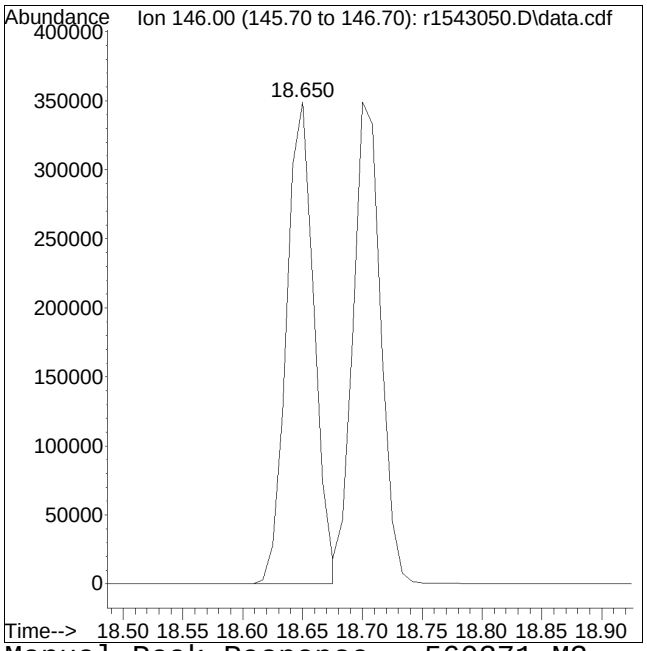
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543050.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 9 Instrument :
Sample : WG1889452-2,3,250,250,, Quant Date : 2/26/2024 1:20 pm

Compound #102: 1,3-dichlorobenzene



Original Peak Response = 563633



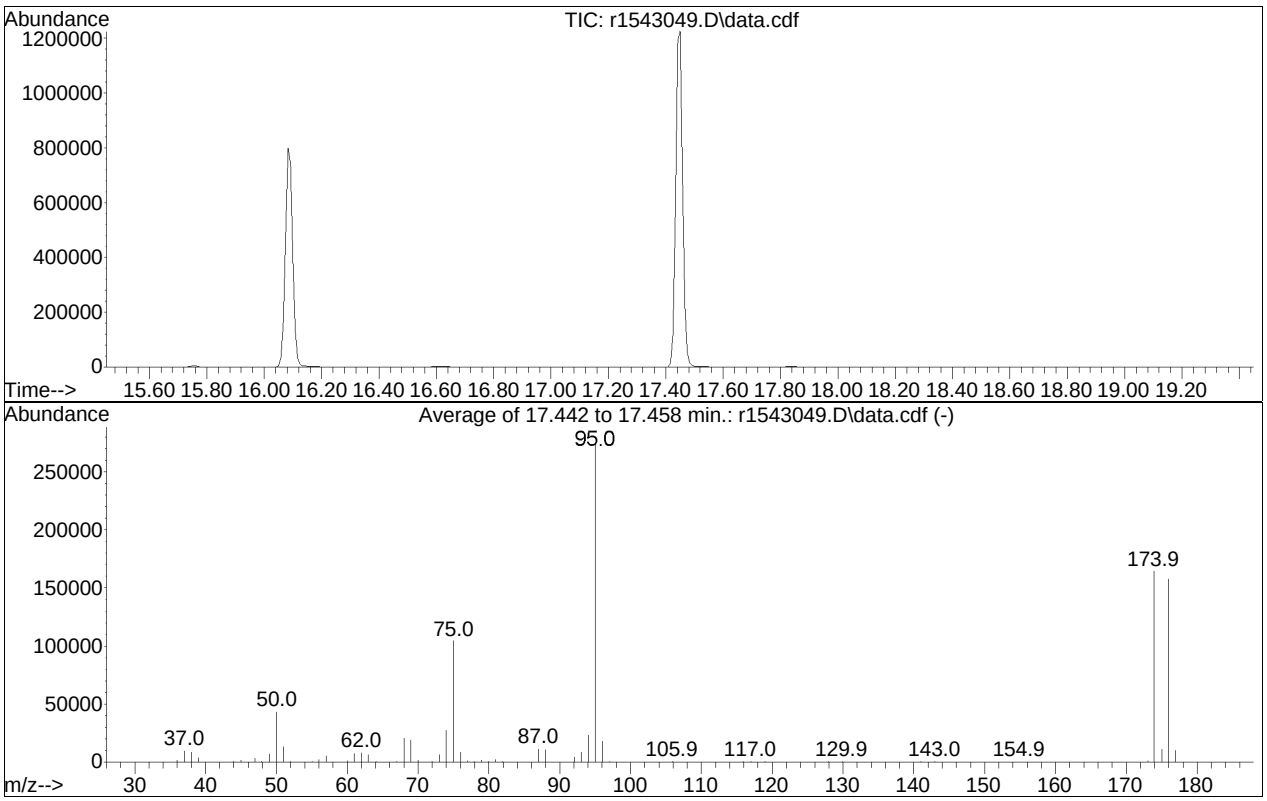
Manual Peak Response = 560371 M3

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

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543049.D
Acq On : 26 Feb 2024 11:04 AM
Operator : AIRLAB15:KJD
Sample : WG1889452-1,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 15:43:18 2023



AutoFind: Scans 2067, 2068, 2069; Background Corrected with Scan 2060

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.7	43215	PASS
75	95	30	66	38.0	104540	PASS
95	95	100	100	100.0	275176	PASS
96	95	5	9	6.4	17748	PASS
173	174	0.00	2	0.5	906	PASS
174	95	50	120	59.9	164893	PASS
175	174	4	9	6.9	11362	PASS
176	174	93	101	95.7	157863	PASS
177	176	5	9	6.5	10296	PASS

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222756.D
Acq On : 1 Mar 2024 12:49 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-2,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:39:03 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	103	-0.02
2		chlorodifluoromethane	0.667	0.713	-6.9	101	-0.02
3		propylene	0.539	0.533	1.1	110	-0.01
4		propane	0.434	0.428	1.4	109	0.00
5		dichlorodifluoromethane	0.805	0.955	-18.6	129	0.00
6	C	chloromethane	0.437	0.470	-7.6	113	-0.01
7		Freon-114	1.167	1.294	-10.9	111	-0.01
8	C	methanol	0.174	0.207	-19.0	122	-0.01
9	C	vinyl chloride	0.558	0.632	-13.3	115	0.00
10	C	1,3-butadiene	0.412	0.491	-19.2	124	0.00
11		butane	0.666	0.836	-25.5	131	-0.01
13	C	bromomethane	0.395	0.447	-13.2	116	0.00
14	C	chloroethane	0.214	0.259	-21.0	125	0.00
15		ethanol	0.161	0.216	-34.2#	132	-0.02
16		dichlorofluoromethane	0.693	0.927	-33.8#	146#	0.00
17	C	vinyl bromide	0.359	0.415	-15.6	120	-0.01
18	C	acrolein	0.173	0.208	-20.2	122	-0.01
19		acetone	0.322	0.400	-24.2	133	-0.02
20	C	acetonitrile	0.310	0.373	-20.3	129	-0.01
21		trichlorofluoromethane	0.430	0.523	-21.6	125	-0.01
22		isopropyl alcohol	0.533	0.660	-23.8	133	-0.02
23	C	acrylonitrile	0.339	0.384	-13.3	119	-0.02
24		pentane	0.667	0.831	-24.6	130	-0.01
25		ethyl ether	0.435	0.536	-23.2	129	-0.02
26	C	1,1-dichloroethene	0.827	0.898	-8.6	107	-0.01
27		tertiary butyl alcohol	1.202	1.263	-5.1	103	-0.02
28	C	methylene chloride	0.793	0.736	7.2	96	-0.02
29	C	3-chloropropene	1.074	1.053	2.0	103	-0.02
30	C	carbon disulfide	2.198	2.059	6.3	97	-0.02
31		Freon 113	1.205	1.138	5.6	96	-0.02
32		trans-1,2-dichloroethene	1.022	1.002	2.0	101	-0.02
33	C	1,1-dichloroethane	1.305	1.248	4.4	97	-0.01
34	C	MTBE	1.895	1.855	2.1	100	-0.02
35	C	vinyl acetate	1.461	1.474	-0.9	106	-0.02
36	C	2-butanone	1.624	1.567	3.5	97	-0.02
37		cis-1,2-dichloroethene	0.930	0.916	1.5	100	-0.02
38		Ethyl Acetate	0.253	0.257	-1.6	101	-0.01
39	C	chloroform	1.147	1.184	-3.2	103	-0.01
40		Tetrahydrofuran	1.033	1.042	-0.9	104	-0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222756.D
Acq On : 1 Mar 2024 12:49 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-2,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:39:03 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	0.913	0.967	-5.9	104	-0.01
42	C	1,2-dichloroethane	0.652	0.732	-12.3	116	-0.02
43	I	1,4-difluorobenzene	1.000	1.000	0.0	92	-0.02
44	C	hexane	0.354	0.416	-17.5	106	-0.01
45		diisopropyl ether	0.222	0.234	-5.4	93	-0.01
46		tert-butyl ethyl ether	0.655	0.745	-13.7	100	-0.01
48	C	1,1,1-trichloroethane	0.277	0.329	-18.8	105	-0.02
49		1,1-dichloropropene	0.298	0.363	-21.8	108	-0.02
50	C	benzene	0.746	0.778	-4.3	93	-0.02
52	C	carbon tetrachloride	0.248	0.298	-20.2	105	-0.02
53		cyclohexane	0.405	0.443	-9.4	102	-0.02
54		tert-amyl methyl ether	0.652	0.679	-4.1	93	-0.02
55		dibromomethane	0.179	0.198	-10.6	98	-0.01
56	C	1,2-dichloropropane	0.244	0.271	-11.1	97	-0.01
57		bromodichloromethane	0.324	0.401	-23.8	110	-0.02
58	C	1,4-dioxane	0.163	0.177	-8.6	97	-0.02
59	C	trichloroethene	0.295	0.310	-5.1	91	-0.02
60	C	2,2,4-trimethylpentane	1.128	1.336	-18.4	106	-0.02
61		methyl methacrylate	0.243	0.298	-22.6	106	-0.02
62		heptane	0.446	0.536	-20.2	108	-0.01
63	C	cis-1,3-dichloropropene	0.356	0.395	-11.0	96	-0.02
64	C	4-methyl-2-pentanone	0.496	0.620	-25.0	108	-0.01
65		trans-1,3-dichloropropene	0.292	0.316	-8.2	96	-0.02
66	C	1,1,2-trichloroethane	0.264	0.278	-5.3	93	-0.01
67	I	chlorobenzene-D5	1.000	1.000	0.0	119	-0.01
68	C	toluene	8.341	6.908	17.2	95	-0.01
71		1,3-dichloropropane	3.773	3.237	14.2	99	-0.02
72		2-hexanone	4.893	4.434	9.4	106	-0.02
74		dibromochloromethane	3.317	2.928	11.7	103	-0.02
75	C	1,2-dibromoethane	3.674	3.025	17.7	95	-0.02
76		butyl acetate	1.221	0.990	18.9	93	-0.01
77		octane	3.408	2.951	13.4	98	-0.01
78	C	tetrachloroethene	3.236	2.675	17.3	94	-0.02
79		1,1,1,2-tetrachloroethane	2.579	2.273	11.9	100	-0.02
80	C	chlorobenzene	6.452	5.484	15.0	96	-0.02
81	C	ethylbenzene	10.089	8.635	14.4	97	-0.01
83	C	m+p-xylene	7.856	7.155	8.9	102	-0.01

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222756.D
Acq On : 1 Mar 2024 12:49 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-2,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:39:03 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84	C	bromoform	2.719	2.373	12.7	100	-0.01
85	C	styrene	7.041	5.814	17.4	92	-0.01
86	C	1,1,2,2-tetrachloroethane	5.266	4.904	6.9	104	-0.01
87	C	o-xylene	7.670	7.124	7.1	103	-0.01
88		1,2,3-trichloropropane	4.388	3.861	12.0	101	-0.02
89		nonane	6.152	5.926	3.7	109	-0.01
91	C	isopropylbenzene	10.609	9.384	11.5	99	-0.01
92		bromobenzene	5.784	5.225	9.7	102	-0.02
93		2-chlorotoluene	3.252	2.852	12.3	98	-0.02
94		n-propylbenzene	3.785	3.347	11.6	97	-0.02
95		4-chlorotoluene	3.266	2.670	18.2	92	-0.02
96		4-ethyl toluene	11.333	10.281	9.3	102	-0.02
97		1,3,5-trimethylbenzene	9.277	8.684	6.4	104	-0.01
98		tert-butylbenzene	9.219	8.874	3.7	106	-0.01
99		1,2,4-trimethylbenzene	8.866	8.587	3.1	107	-0.01
100		decane	7.401	7.184	2.9	107	-0.02
101	C	Benzyl Chloride	5.322	5.284	0.7	105	-0.01
102		1,3-dichlorobenzene	6.511	5.785	11.2	97	-0.02
103	C	1,4-dichlorobenzene	6.244	5.295	15.2	91	-0.02
104		sec-butylbenzene	13.163	12.304	6.5	103	-0.02
106		p-isopropyltoluene	11.031	10.807	2.0	108	-0.02
107		1,2-dichlorobenzene	6.119	5.332	12.9	94	-0.01
108		n-butylbenzene	9.879	9.597	2.9	106	-0.01
111	C	1,2-dibromo-3-chloropropane	2.162	2.286	-5.7	118	-0.01
112		undecane	7.983	8.262	-3.5	110	-0.01
114		dodecane	7.434	8.339	-12.2	114	-0.02
115	C	1,2,4-trichlorobenzene	4.807	4.583	4.7	95	-0.02
116		naphthalene	11.660	12.324	-5.7	107	-0.02
117		1,2,3-trichlorobenzene	4.229	4.171	1.4	100	-0.02
119	C	hexachlorobutadiene	3.689	3.566	3.3	104	-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\Airlab22\2024\03\0301T\
Data File : r222756.D
Acq On : 1 Mar 2024 12:49 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-2,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:39:03 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.430	49	199252	10.000	ppbV	-0.02
Standard Area = 199252			Recovery = 100.00%			
43) 1,4-difluorobenzene	5.357	114	623148	10.000	ppbV	-0.02
Standard Area = 623148			Recovery = 100.00%			
67) chlorobenzene-D5	7.333	54	82823	10.000	ppbV	-0.01
Standard Area = 82823			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) chlorodifluoromethane	2.120	51	142088M4	10.691	ppbV	
3) propylene	2.150	41	106109M6	9.879	ppbV	
4) propane	2.165	29	85260	9.856	ppbV #	92
5) dichlorodifluoromethane	2.195	85	190281	11.858	ppbV	99
6) chloromethane	2.295	50	93611	10.751	ppbV	100
7) Freon-114	2.355	85	257841	11.093	ppbV	97
8) methanol	2.380	31	205851	59.277	ppbV	92
9) vinyl chloride	2.430	62	125891	11.322	ppbV	100
10) 1,3-butadiene	2.500	54	97783	11.905	ppbV	92
11) butane	2.525	43	166597	12.548	ppbV	98
13) bromomethane	2.625	94	89036	11.315	ppbV	99
14) chloroethane	2.700	64	51606	12.088	ppbV	99
15) ethanol	2.735	31	215549M4	67.351	ppbV	
16) dichlorofluoromethane	2.740	67	184608	13.376	ppbV	100
17) vinyl bromide	2.854	106	82787	11.570	ppbV	97
18) acrolein	2.899	56	41353	12.025	ppbV	98
19) acetone	2.956	43	398179	62.114	ppbV	96
20) acetonitrile	2.839	41	74302	12.046	ppbV	99
21) trichlorofluoromethane	3.043	101	104300	12.185	ppbV	100
22) isopropyl alcohol	3.064	45	328989	30.954	ppbV	99
23) acrylonitrile	3.175	53	76515	11.338	ppbV	100
24) pentane	3.211	43	165503	12.447	ppbV	96
25) ethyl ether	3.217	31	106776	12.327	ppbV	96
26) 1,1-dichloroethene	3.345	61	179009	10.868	ppbV	91
27) tertiary butyl alcohol	3.355	59	251729	10.514	ppbV	96
28) methylene chloride	3.400	49	146614	9.282	ppbV	93
29) 3-chloropropene	3.455	41	209774	9.804	ppbV	93
30) carbon disulfide	3.545	76	410180	9.367	ppbV	96
31) Freon 113	3.525	101	226682	9.443	ppbV	94

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222756.D
Acq On : 1 Mar 2024 12:49 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-2,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:39:03 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) trans-1,2-dichloroethene	3.850	61	199711	9.803	ppbV		95
33) 1,1-dichloroethane	3.950	63	248599	9.562	ppbV		100
34) MTBE	3.970	73	369661	9.789	ppbV		98
35) vinyl acetate	4.017	43	293750	10.089	ppbV		97
36) 2-butanone	4.130	43	312221	9.651	ppbV		97
37) cis-1,2-dichloroethene	4.350	61	182424	9.848	ppbV		92
38) Ethyl Acetate	4.457	61	51226	10.176	ppbV		92
39) chloroform	4.497	83	235938	10.328	ppbV		97
40) Tetrahydrofuran	4.683	42	207598	10.082	ppbV		95
41) 2,2-dichloropropane	4.510	77	192646	10.589	ppbV		91
42) 1,2-dichloroethane	4.850	62	145774	11.224	ppbV		95
44) hexane	4.457	57	259492	11.775	ppbV		93
45) diisopropyl ether	4.450	87	145975	10.565	ppbV		82
46) tert-butyl ethyl ether	4.710	59	464542	11.379	ppbV		96
48) 1,1,1-trichloroethane	4.970	97	204988	11.889	ppbV		96
49) 1,1-dichloropropene	5.123	75	226184	12.177	ppbV		93
50) benzene	5.190	78	484617	10.426	ppbV		98
52) carbon tetrachloride	5.263	117	185662	12.010	ppbV		99
53) cyclohexane	5.323	56	276199	10.947	ppbV		93
54) tert-amyl methyl ether	5.470	73	423399	10.419	ppbV		96
55) dibromomethane	5.570	93	123490	11.053	ppbV		91
56) 1,2-dichloropropane	5.583	63	169086	11.143	ppbV	#	97
57) bromodichloromethane	5.670	83	249973	12.377	ppbV		98
58) 1,4-dioxane	5.683	88	110133	10.856	ppbV		94
59) trichloroethene	5.690	130	193067	10.508	ppbV		98
60) 2,2,4-trimethylpentane	5.710	57	832781	11.843	ppbV		97
61) methyl methacrylate	5.777	41	185521	12.231	ppbV		89
62) heptane	5.830	43	334172	12.024	ppbV		96
63) cis-1,3-dichloropropene	6.087	75	246125	11.107	ppbV		95
64) 4-methyl-2-pentanone	6.100	43	386265	12.499	ppbV		95
65) trans-1,3-dichloropropene	6.320	75	197157	10.841	ppbV		95
66) 1,1,2-trichloroethane	6.407	97	173432	10.556	ppbV	#	93
68) toluene	6.533	91	572133	8.281	ppbV		99
71) 1,3-dichloropropane	6.540	76	268094	8.579	ppbV		92
72) 2-hexanone	6.640	43	367237	9.062	ppbV		98
74) dibromochloromethane	6.720	129	242486	8.828	ppbV		100
75) 1,2-dibromoethane	6.833	107	250547	8.234	ppbV		98
76) butyl acetate	6.927	73	81958	8.104	ppbV		83
77) octane	6.973	85	244392	8.658	ppbV		88
78) tetrachloroethene	7.040	166	221579	8.267	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222756.D
Acq On : 1 Mar 2024 12:49 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-2,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:39:03 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : Default-LCS-AP2 - All compounds listed

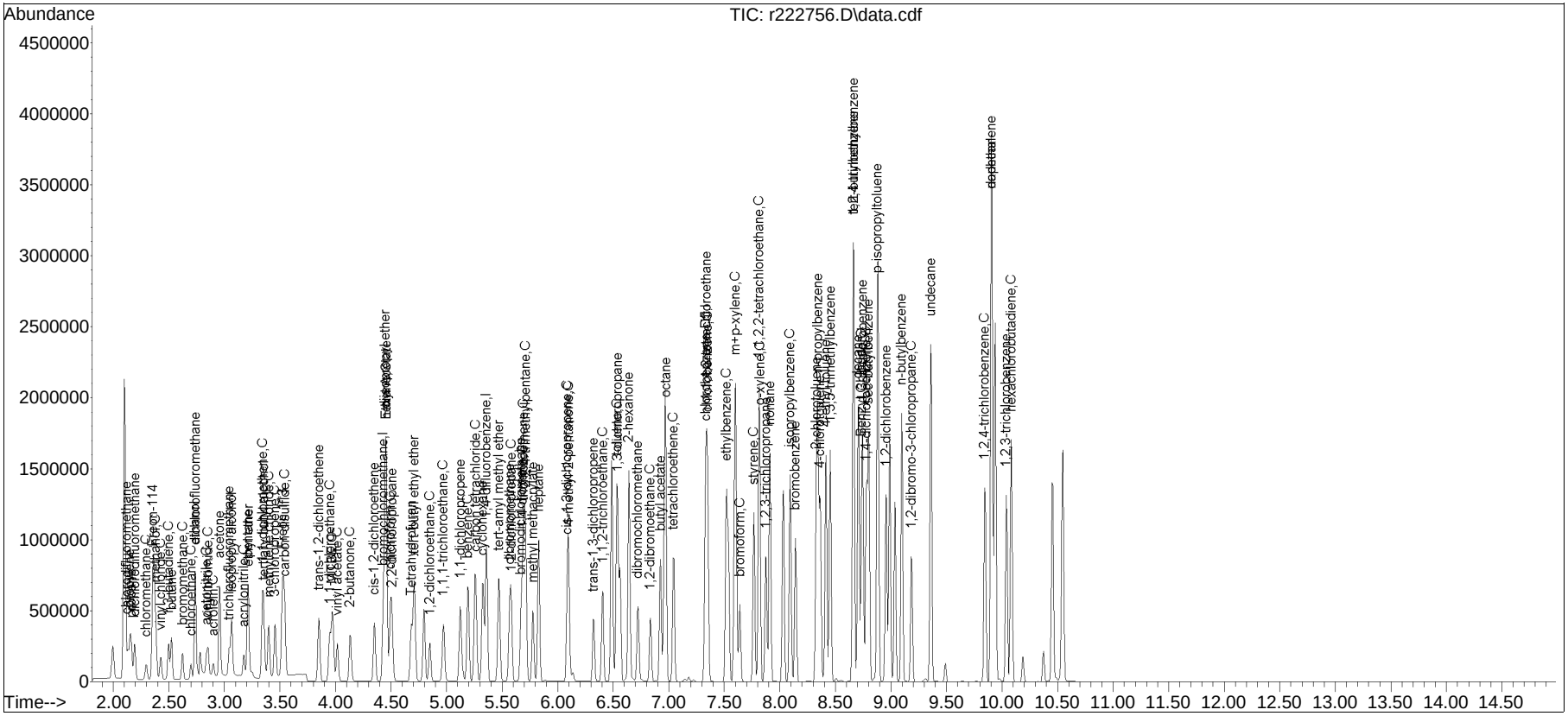
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79) 1,1,1,2-tetrachloroethane	7.340	131	188244	8.811	ppbV		98
80) chlorobenzene	7.347	112	454171	8.500	ppbV		97
81) ethylbenzene	7.520	91	715201	8.559	ppbV		98
83) m+p-xylene	7.600	91	1185261	18.217	ppbV		97
84) bromoform	7.640	173	196578	8.729	ppbV		98
85) styrene	7.767	104	481564	8.258	ppbV		94
86) 1,1,2,2-tetrachloroethane	7.813	83	406186	9.312	ppbV		98
87) o-xylene	7.820	91	590022	9.288	ppbV		96
88) 1,2,3-trichloropropane	7.873	75	319760	8.798	ppbV		97
89) nonane	7.913	43	490814	9.633	ppbV		95
91) isopropylbenzene	8.093	105	777170	8.845	ppbV		96
92) bromobenzene	8.140	77	432757	9.034	ppbV		95
93) 2-chlorotoluene	8.327	126	236224	8.771	ppbV		74
94) n-propylbenzene	8.340	120	277228	8.842	ppbV		80
95) 4-chlorotoluene	8.360	126	221152	8.175	ppbV		83
96) 4-ethyl toluene	8.413	105	851520	9.072	ppbV		98
97) 1,3,5-trimethylbenzene	8.453	105	719194	9.360	ppbV		97
98) tert-butylbenzene	8.663	119	734956	9.626	ppbV		96
99) 1,2,4-trimethylbenzene	8.663	105	711183	9.685	ppbV		95
100) decane	8.703	57	595013	9.706	ppbV		97
101) Benzyl Chloride	8.737	91	437644	9.928	ppbV		96
102) 1,3-dichlorobenzene	8.743	146	479114M3	8.885	ppbV		
103) 1,4-dichlorobenzene	8.777	146	438570	8.480	ppbV		96
104) sec-butylbenzene	8.797	105	1019039	9.347	ppbV		98
106) p-isopropyltoluene	8.877	119	895072	9.797	ppbV		97
107) 1,2-dichlorobenzene	8.957	146	441580	8.714	ppbV	#	93
108) n-butylbenzene	9.097	91	794841	9.715	ppbV		95
111) 1,2-dibromo-3-chloropr...	9.183	75	189314	10.571	ppbV		85
112) undecane	9.357	57	684311	10.350	ppbV		96
114) dodecane	9.902	57	690694	11.218	ppbV		96
115) 1,2,4-trichlorobenzene	9.842	180	379586	9.534	ppbV		95
116) naphthalene	9.902	128	1020707	10.569	ppbV		98
117) 1,2,3-trichlorobenzene	10.038	180	345465	9.862	ppbV		98
119) hexachlorobutadiene	10.083	225	295382	9.667	ppbV		97

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

Sub List : Default-LCS-AP2 - All compounds listed1T\r222756.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222756.D
Acq On : 1 Mar 2024 12:49 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-2,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

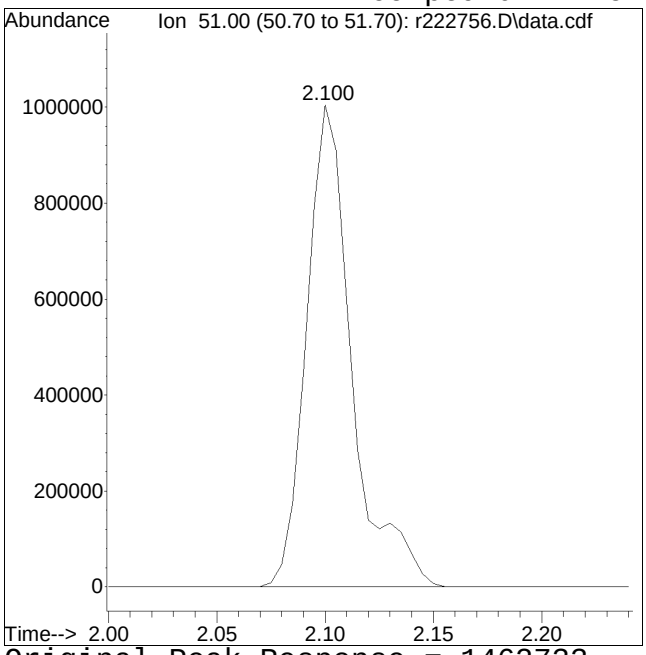
Quant Time: Mar 01 14:39:03 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration



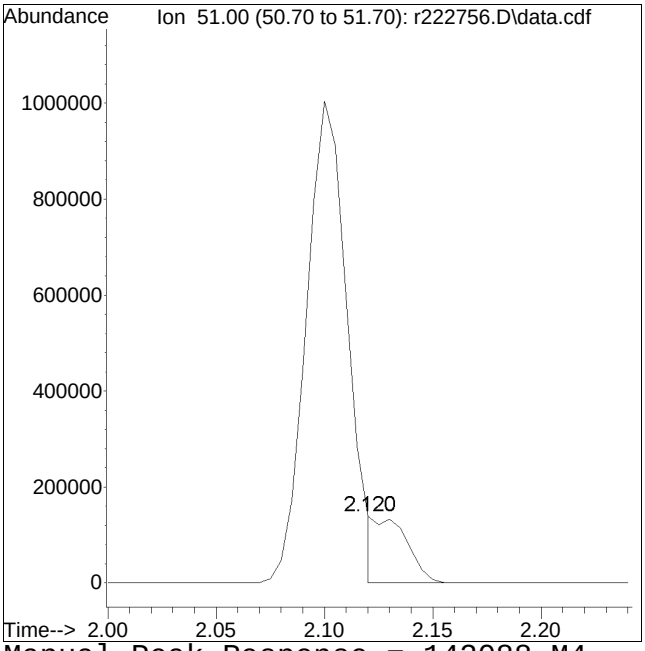
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222756.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:2: 9 Instrument :
Sample : WG1891258-2,3,250,250 Quant Date : 3/1/2024 2:39 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 1462733



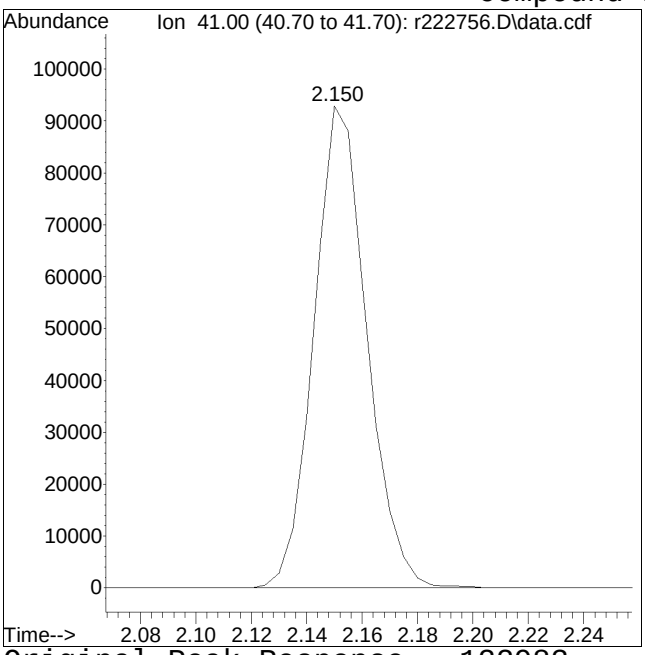
Manual Peak Response = 142088 M4

M4 = Poor automated baseline construction.

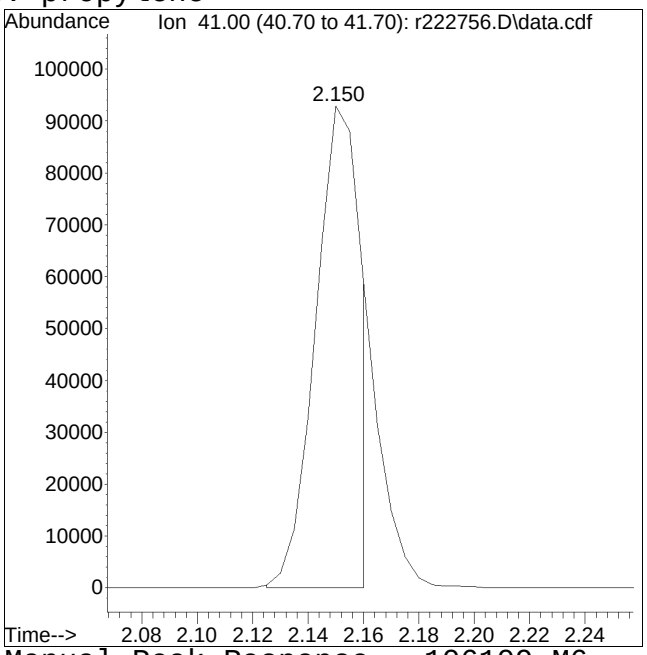
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222756.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:2: 9 Instrument :
Sample : WG1891258-2,3,250,250 Quant Date : 3/1/2024 2:39 pm

Compound #3: propylene



Original Peak Response = 122983



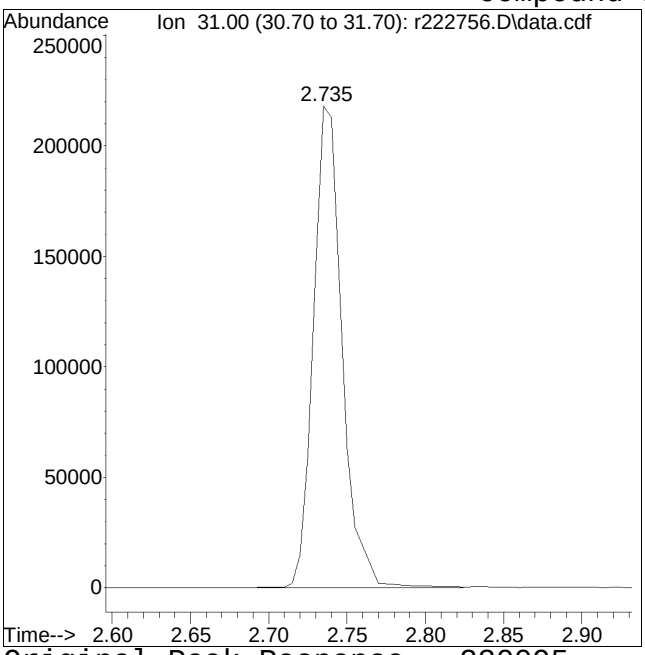
Manual Peak Response = 106109 M6

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

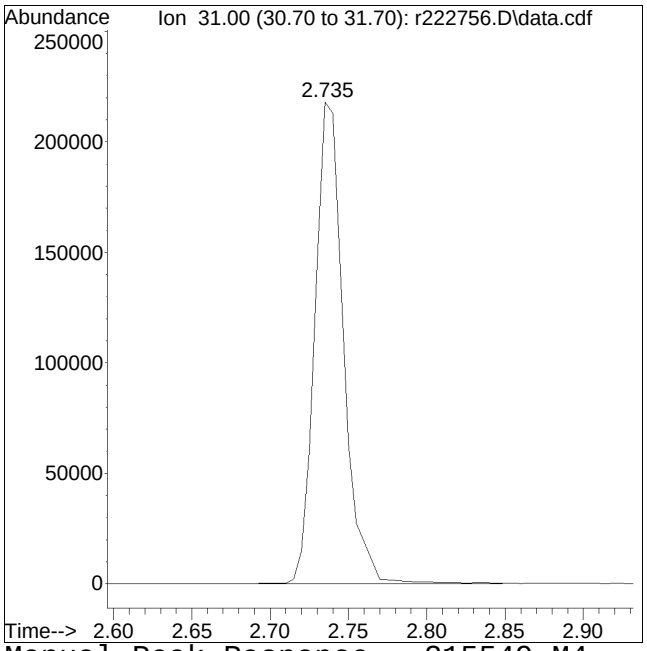
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222756.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:2: 9 Instrument :
Sample : WG1891258-2,3,250,250 Quant Date : 3/1/2024 2:39 pm

Compound #15: ethanol



Original Peak Response = 230095



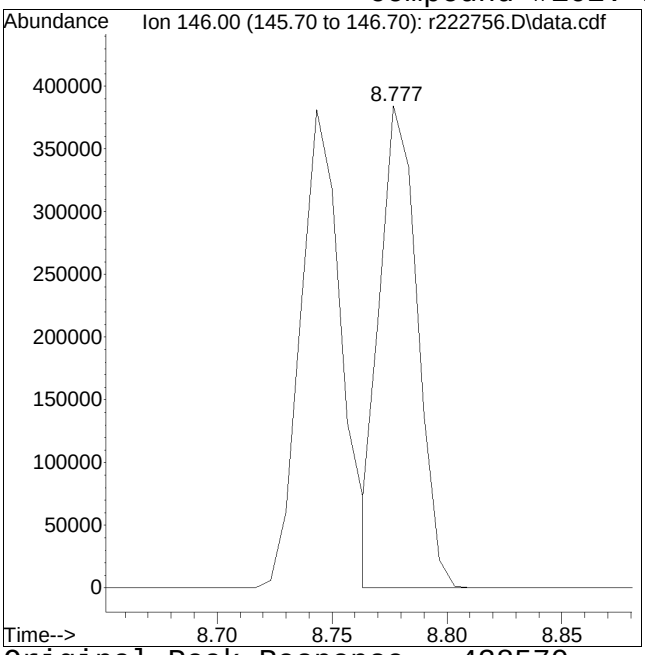
Manual Peak Response = 215549 M4

M4 = Poor automated baseline construction.

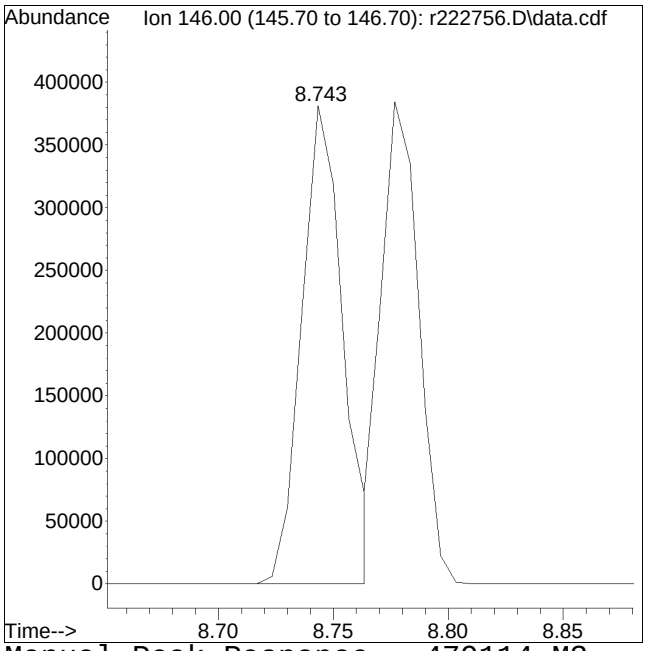
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222756.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:2: 9 Instrument :
Sample : WG1891258-2,3,250,250 Quant Date : 3/1/2024 2:39 pm

Compound #102: 1,3-dichlorobenzene



Original Peak Response = 438570



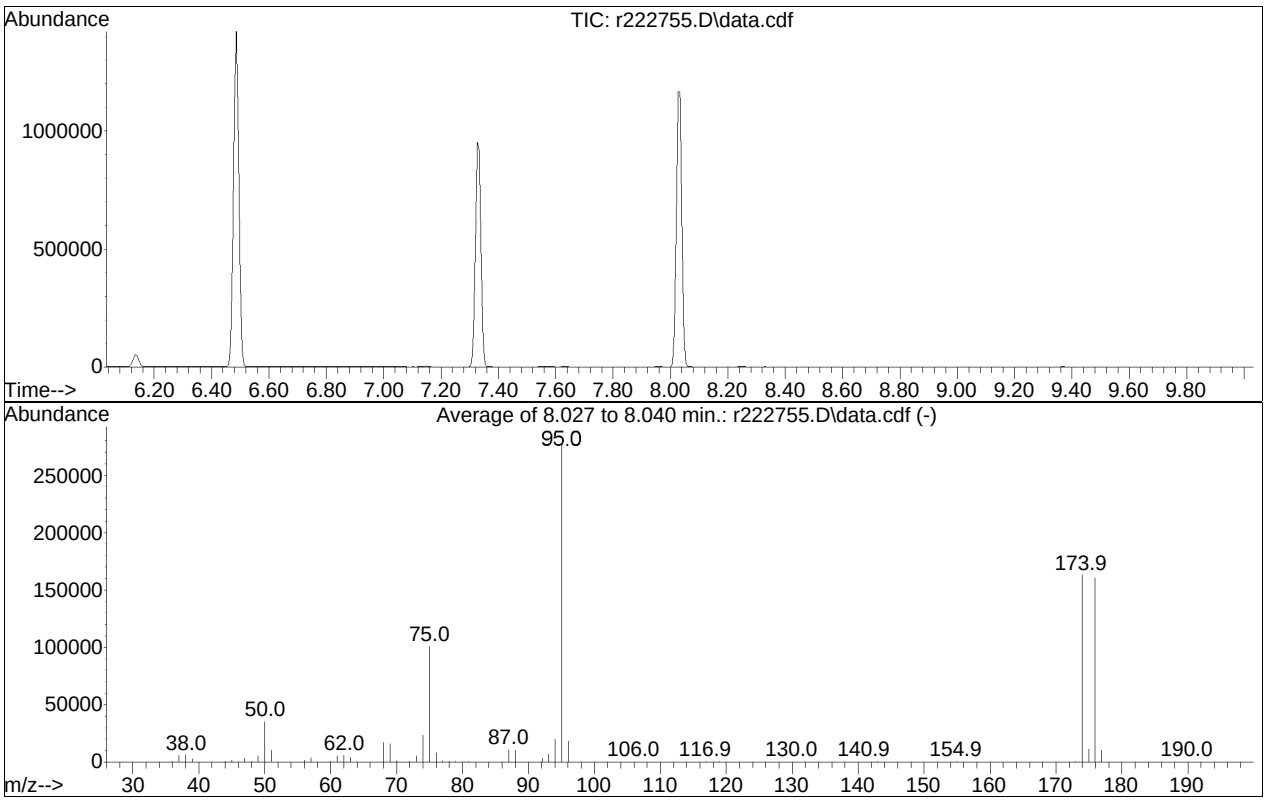
Manual Peak Response = 479114 M3

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

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222755.D
Acq On : 1 Mar 2024 12:15 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-1,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Dec 01 08:46:43 2023



Spectrum Information: Average of 8.027 to 8.040 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.6	35106	PASS
75	95	30	66	36.1	100572	PASS
95	95	100	100	100.0	278410	PASS
96	95	5	9	6.5	17980	PASS
173	174	0.00	2	0.4	684	PASS
174	95	50	120	58.7	163448	PASS
175	174	4	9	7.1	11586	PASS
176	174	93	101	98.2	160498	PASS
177	176	5	9	6.5	10395	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543053.D
Acq On : 26 Feb 2024 3:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-4,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:19:32 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.183	49	218227	10.000	ppbV	0.00
Standard Area = 240397			Recovery = 90.78%			
43) 1,4-difluorobenzene	11.413	114	614258	10.000	ppbV	# 0.02
Standard Area = 687087			Recovery = 89.40%			
67) chlorobenzene-D5	16.092	54	108559	10.000	ppbV	-0.02
Standard Area = 126242			Recovery = 85.99%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.		
6) chloromethane	0.000		0	N.D.		
7) Freon-114	0.000		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.242	31	523	0.064	ppbV	87
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.770	43	784	0.064	ppbV #	83
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	6.053		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	0.000		0	N.D.		
28) methylene chloride	6.768		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
31) Freon 113	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	0.000		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543053.D
Acq On : 26 Feb 2024 3:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-4,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:19:32 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	0.000		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	0.000		0	N.D.		
62) heptane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.342		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

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543053.D
Acq On : 26 Feb 2024 3:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-4,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:19:32 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

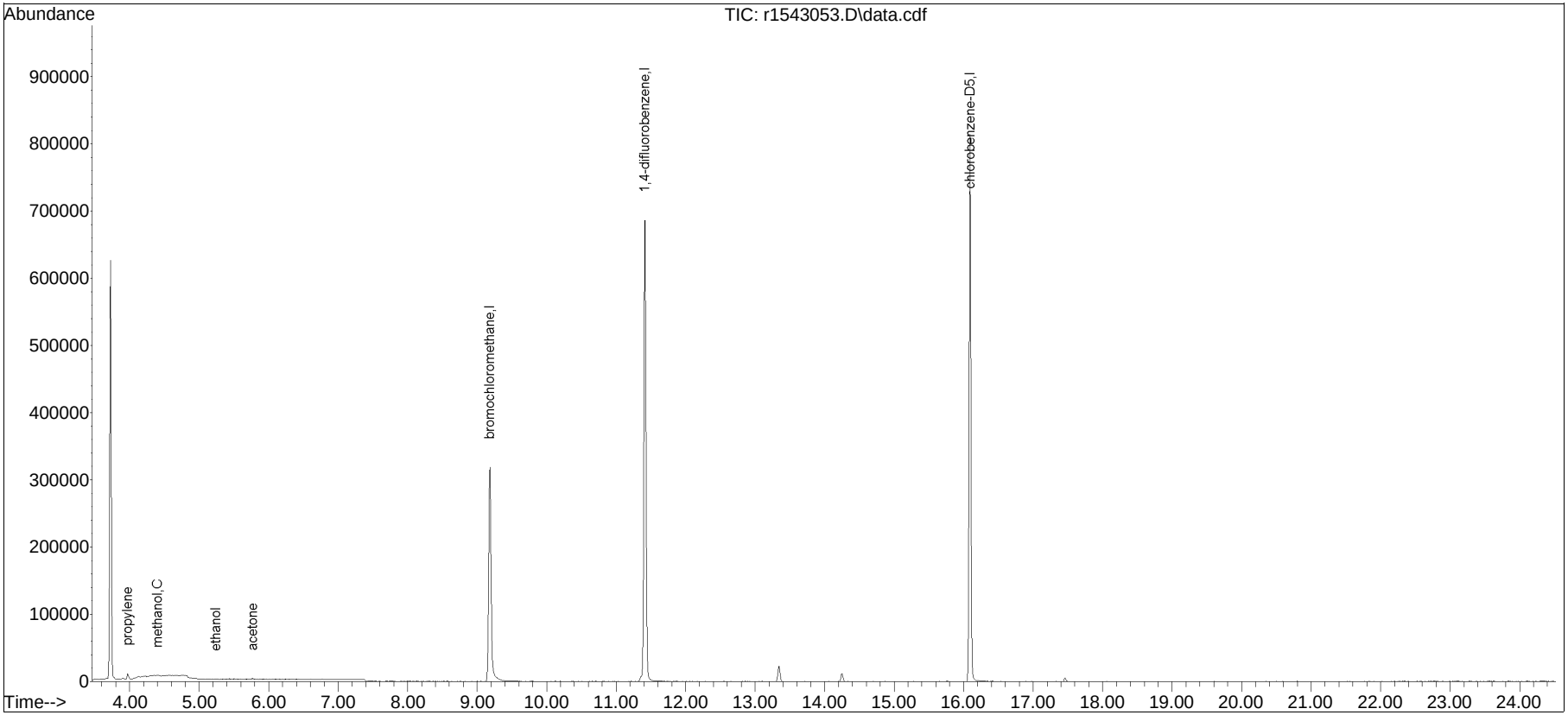
CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : Default-LCS-AP2 - All compounds listed

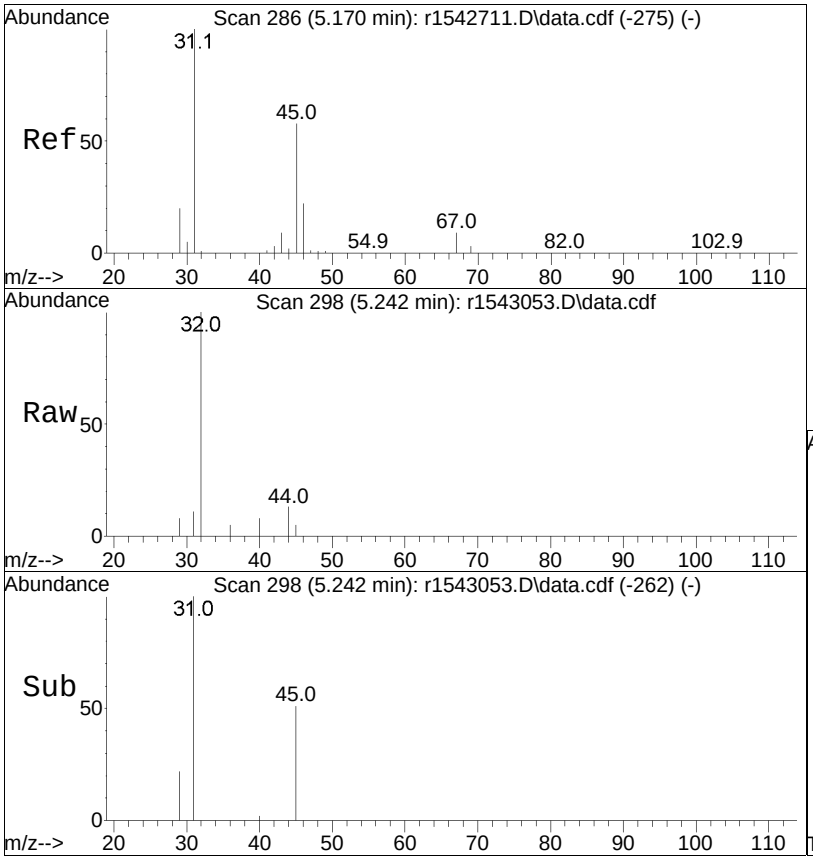
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed6T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543053.D
Acq On : 26 Feb 2024 3:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-4,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:19:32 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

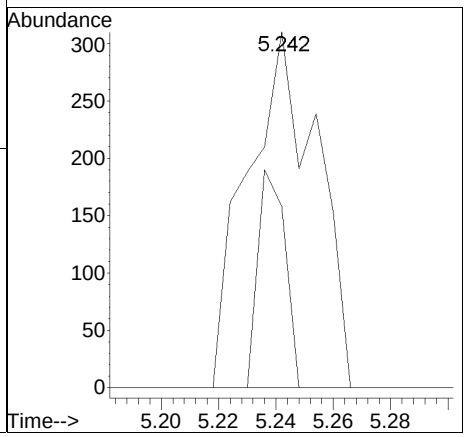


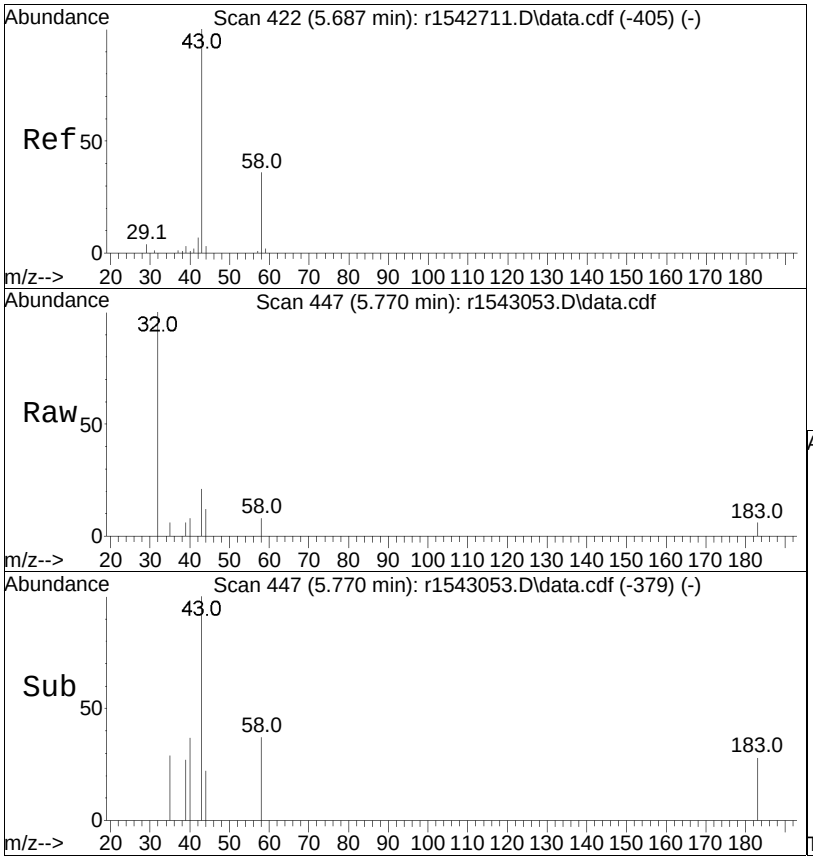


#15
ethanol
Concen: 0.06 ppbV
RT: 5.242 min Scan# 298
Delta R.T. 0.014 min
Lab File: r1543053.D
Acq: 26 Feb 2024 3:17 PM

Tgt Ion: 31 Resp: 523

Ion	Ratio	Lower	Upper
31	100		
45	51.0	34.2	51.2

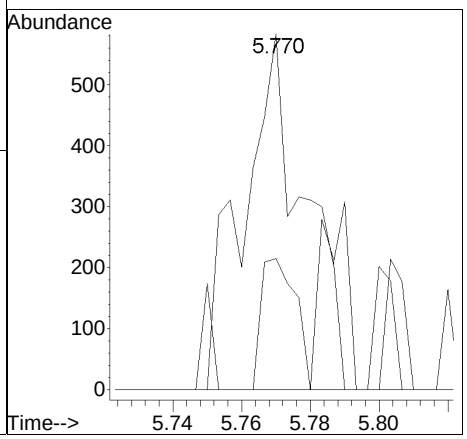




#19
acetone
Concen: 0.06 ppbV
RT: 5.770 min Scan# 447
Delta R.T. 0.027 min
Lab File: r1543053.D
Acq: 26 Feb 2024 3:17 PM

Tgt Ion: 43 Resp: 784

Ion	Ratio	Lower	Upper
43	100		
58	36.9	39.0	58.4#
57	0.0	0.9	1.3#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TFS15_231120.M
Data File	: r1543053.D	Operator	: AIRLAB15:KJD
Date Inj'd	: 2/26/2020 0:3: 7	Instrument	:
Sample	: WG1889452-4,3,250,250,,	Quant Date	: 2/27/2024 7:19 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222759.D
Acq On : 1 Mar 2024 3:26 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-4,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:03:53 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.437	49	204560	10.000	ppbV	-0.01
Standard Area = 199252			Recovery = 102.66%			
43) 1,4-difluorobenzene	5.363	114	632233	10.000	ppbV	-0.01
Standard Area = 623148			Recovery = 101.46%			
67) chlorobenzene-D5	7.333	54	82119	10.000	ppbV	#-0.01
Standard Area = 82823			Recovery = 99.15%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.		
6) chloromethane	0.000		0	N.D.		
7) Freon-114	0.000		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.750	31	5429	1.652	ppbV	85
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.974	43	1907	0.290	ppbV #	72
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	3.085		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	3.375		0	N.D.		
28) methylene chloride	3.405		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
31) Freon 113	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	4.150		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222759.D
Acq On : 1 Mar 2024 3:26 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-4,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:03:53 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	0.000		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	0.000		0	N.D.		
62) heptane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	6.140		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	6.493		0	N.D.		
68) toluene	6.533		0	N.D.		
72) 2-hexanone	6.660		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	7.600		0	N.D.		
83) m+p-xylene	7.600		0	N.D.		
84) bromoform	0.000		0	N.D.		
85) styrene	0.000		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	0.000		0	N.D.		
96) 4-ethyl toluene	8.420		0	N.D.		
97) 1,3,5-trimethylbenzene	8.453		0	N.D.		
99) 1,2,4-trimethylbenzene	8.803		0	N.D.		
101) Benzyl Chloride	8.737		0	N.D.		
102) 1,3-dichlorobenzene	8.750		0	N.D.		
103) 1,4-dichlorobenzene	8.783		0	N.D.		
107) 1,2-dichlorobenzene	8.957		0	N.D.		
115) 1,2,4-trichlorobenzene	9.850		0	N.D.		
119) hexachlorobutadiene	10.083		0	N.D.		

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

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222759.D
Acq On : 1 Mar 2024 3:26 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-4,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:03:53 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

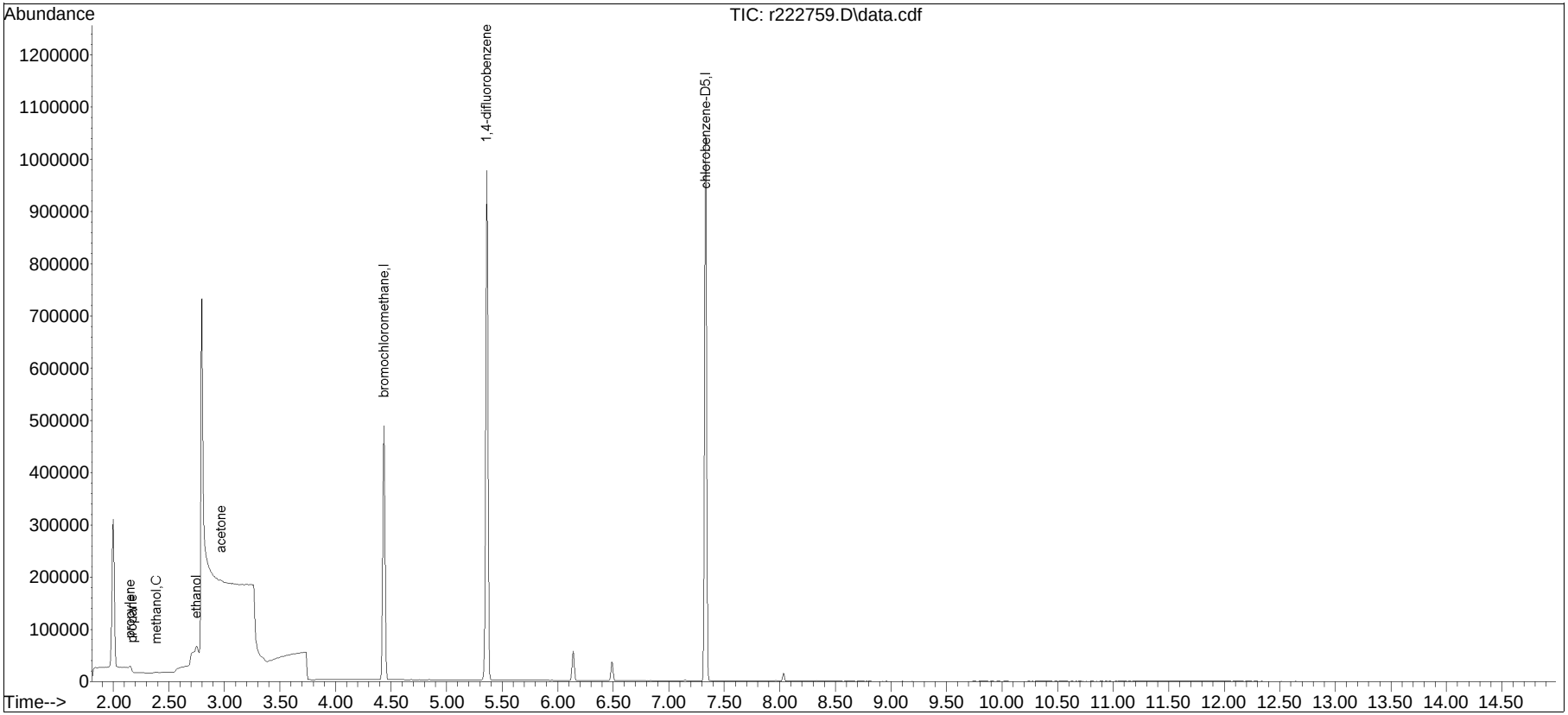
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : Default-LCS-AP2 - All compounds listed

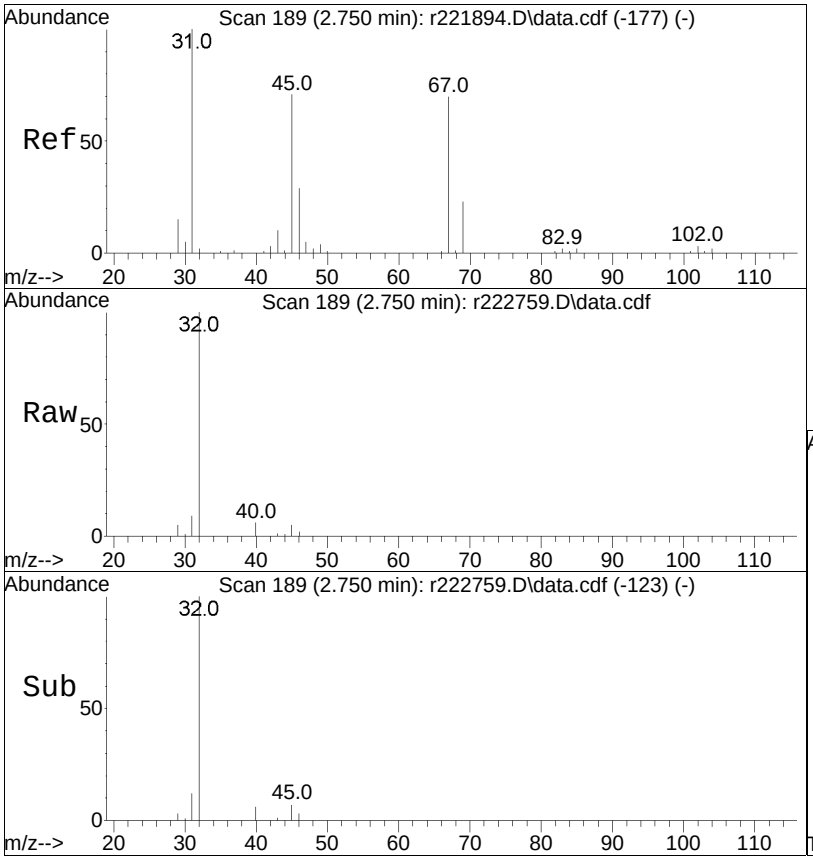
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed1T\r222756.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222759.D
Acq On : 1 Mar 2024 3:26 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-4,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:03:53 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

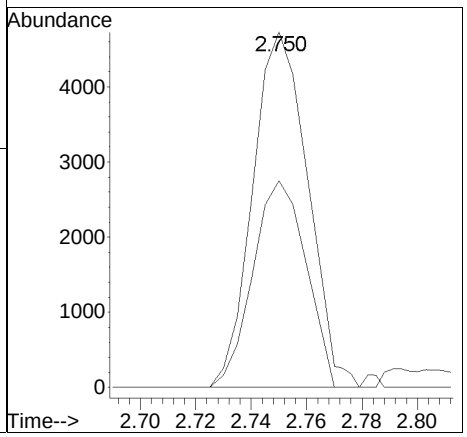


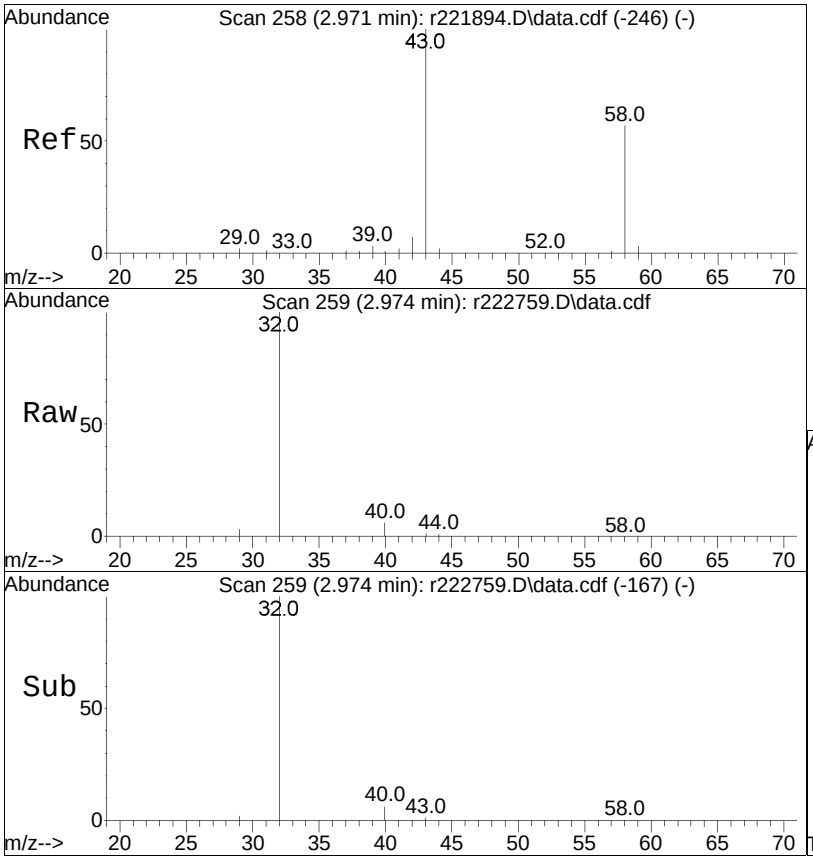


#15
ethanol
Concen: 1.65 ppbV
RT: 2.750 min Scan# 189
Delta R.T. 0.000 min
Lab File: r222759.D
Acq: 1 Mar 2024 3:26 PM

Tgt Ion: 31 Resp: 5429

Ion	Ratio	Lower	Upper
31	100		
45	58.2	56.6	84.8

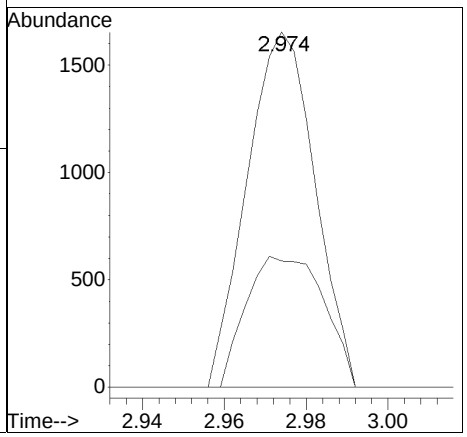




#19
acetone
Concen: 0.29 ppbV
RT: 2.974 min Scan# 259
Delta R.T. 0.003 min
Lab File: r222759.D
Acq: 1 Mar 2024 3:26 PM

Tgt Ion: 43 Resp: 1907

Ion	Ratio	Lower	Upper
43	100		
58	35.6	45.5	68.3#
57	0.0	1.0	1.6#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab22Q	Method	: TFS22_231129.M
Data File	: r222759.D	Operator	: AIRLAB22:BJB
Date Inj'd	: 3/1/2020 0:3: 6	Instrument	:
Sample	: WG1891258-4,3,250,250	Quant Date	: 3/2/2024 8:03 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543051.D
Acq On : 26 Feb 2024 12:34 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-3,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:30:04 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 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	71	0.00
2		chlorodifluoromethane	10.000	8.189	18.1	60	-0.06
3		propylene	10.000	11.577	-15.8	85	-0.06
4		propane	10.000	8.425	15.7	59	-0.06
5		dichlorodifluoromethane	10.000	9.010	9.9	64	-0.06
6	C	chloromethane	10.000	8.809	11.9	63	-0.05
7		Freon-114	10.000	9.997	0.0	70	-0.05
8	C	methanol	50.000	38.199	23.6	52	-0.05
9	C	vinyl chloride	10.000	8.771	12.3	61	-0.05
10	C	1,3-butadiene	10.000	8.714	12.9	62	-0.05
11		butane	10.000	11.165	-11.6	85	-0.05
13	C	bromomethane	10.000	9.038	9.6	63	-0.04
14	C	chloroethane	10.000	9.808	1.9	71	-0.05
15		ethanol	50.000	40.496	19.0	51	-0.03
16		dichlorofluoromethane	10.000	10.322	-3.2	76	-0.04
17	C	vinyl bromide	10.000	10.419	-4.2	77	-0.04
18	C	acrolein	10.000	8.259	17.4	58	-0.03
19		acetone	50.000	60.829	-21.7	89	-0.03
20	C	acetonitrile	10.000	11.032	-10.3	84	-0.04
21		trichlorofluoromethane	10.000	10.895	-8.9	76	-0.03
22		isopropyl alcohol	25.000	24.358	2.6	73	-0.03
23	C	acrylonitrile	10.000	9.372	6.3	69	-0.03
24		pentane	10.000	10.067	-0.7	73	-0.03
25		ethyl ether	10.000	9.374	6.3	66	-0.03
26	C	1,1-dichloroethene	10.000	10.622	-6.2	76	-0.02
27		tertiary butyl alcohol	10.000	9.207	7.9	68	-0.02
28	C	methylene chloride	10.000	9.261	7.4	65	-0.02
29	C	3-chloropropene	10.000	10.759	-7.6	79	-0.02
30	C	carbon disulfide	10.000	8.755	12.4	62	-0.02
31		Freon 113	10.000	10.307	-3.1	75	-0.02
32		trans-1,2-dichloroethene	10.000	10.101	-1.0	75	-0.02
33	C	1,1-dichloroethane	10.000	10.318	-3.2	75	0.00
34	C	MTBE	10.000	9.074	9.3	66	0.00
35	C	vinyl acetate	10.000	9.022	9.8	67	0.00
36	C	2-butanone	10.000	9.895	1.1	73	0.00
37		cis-1,2-dichloroethene	10.000	10.362	-3.6	74	0.00
38		Ethyl Acetate	10.000	10.776	-7.8	79	0.00
39	C	chloroform	10.000	8.979	10.2	62	0.00
40		Tetrahydrofuran	10.000	9.505	4.9	70	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543051.D
Acq On : 26 Feb 2024 12:34 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-3,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:30:04 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 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	9.197	8.0	65	0.00
42	C	1,2-dichloroethane	10.000	11.002	-10.0	79	0.00
43	I	1,4-difluorobenzene	10.000	10.000	0.0	73	0.01
44	C	hexane	10.000	10.367	-3.7	74	0.00
45		diisopropyl ether	10.000	8.410	15.9	60	0.00
46		tert-butyl ethyl ether	10.000	8.883	11.2	64	0.00
48	C	1,1,1-trichloroethane	10.000	10.653	-6.5	76	0.00
49		1,1-dichloropropene	10.000	9.354	6.5	67	0.01
50	C	benzene	10.000	8.501	15.0	60	0.01
52	C	carbon tetrachloride	10.000	9.830	1.7	66	0.01
53		cyclohexane	10.000	9.834	1.7	72	0.02
54		tert-amyl methyl ether	10.000	8.003	20.0	58	0.01
55		dibromomethane	10.000	9.659	3.4	70	0.01
56	C	1,2-dichloropropane	10.000	9.964	0.4	72	0.01
57		bromodichloromethane	10.000	9.734	2.7	67	0.01
58	C	1,4-dioxane	10.000	9.181	8.2	66	0.01
59	C	trichloroethene	10.000	9.157	8.4	65	0.00
60	C	2,2,4-trimethylpentane	10.000	10.433	-4.3	74	0.00
61		methyl methacrylate	10.000	11.203	-12.0	81	0.01
62		heptane	10.000	10.246	-2.5	74	0.00
63	C	cis-1,3-dichloropropene	10.000	8.939	10.6	60	0.00
64	C	4-methyl-2-pentanone	10.000	10.169	-1.7	72	0.00
65		trans-1,3-dichloropropene	10.000	8.828	11.7	59	0.00
66	C	1,1,2-trichloroethane	10.000	9.855	1.4	71	0.00
67	I	chlorobenzene-D5	10.000	10.000	0.0	74	-0.03
68	C	toluene	10.000	9.021	9.8	67	0.00
71		1,3-dichloropropane	10.000	8.498	15.0	65	0.00
72		2-hexanone	10.000	9.396	6.0	71	0.00
74		dibromochloromethane	10.000	10.196	-2.0	74	0.00
75	C	1,2-dibromoethane	10.000	8.730	12.7	66	0.00
76		butyl acetate	10.000	7.841	21.6	59	-0.02
77		octane	10.000	7.928	20.7	60	-0.03
78	C	tetrachloroethene	10.000	8.139	18.6	61	-0.02
79		1,1,1,2-tetrachloroethane	10.000	9.274	7.3	69	-0.02
80	C	chlorobenzene	10.000	8.237	17.6	61	-0.02
81	C	ethylbenzene	10.000	8.931	10.7	66	-0.02
83	C	m+p-xylene	20.000	19.044	4.8	69	-0.03

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543051.D
Acq On : 26 Feb 2024 12:34 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-3,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:30:04 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 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	10.122	-1.2	72	-0.03
85	C	styrene	10.000	8.473	15.3	63	-0.03
86	C	1,1,2,2-tetrachloroethane	10.000	8.704	13.0	60	-0.03
87	C	o-xylene	10.000	9.804	2.0	69	-0.04
88		1,2,3-trichloropropane	10.000	8.580	14.2	65	-0.04
89		nonane	10.000	9.017	9.8	67	-0.04
91	C	isopropylbenzene	10.000	9.208	7.9	70	-0.04
92		bromobenzene	10.000	8.403	16.0	63	-0.04
93		2-chlorotoluene	10.000	8.268	17.3	62	-0.04
94		n-propylbenzene	10.000	8.175	18.2	60	-0.05
95		4-chlorotoluene	10.000	8.342	16.6	62	-0.04
96		4-ethyl toluene	10.000	9.425	5.7	70	-0.05
97		1,3,5-trimethylbenzene	10.000	9.942	0.6	68	-0.05
98		tert-butylbenzene	10.000	8.611	13.9	61	-0.05
99		1,2,4-trimethylbenzene	10.000	9.857	1.4	67	-0.05
100		decane	10.000	9.649	3.5	68	-0.06
101	C	Benzyl Chloride	10.000	9.473	5.3	64	-0.06
102		1,3-dichlorobenzene	10.000	9.204	8.0	65	-0.05
103	C	1,4-dichlorobenzene	10.000	9.374	6.3	67	-0.05
104		sec-butylbenzene	10.000	9.336	6.6	68	-0.06
106		p-isopropyltoluene	10.000	8.083	19.2	63	-0.05
107		1,2-dichlorobenzene	10.000	9.227	7.7	64	-0.05
108		n-butylbenzene	10.000	9.839	1.6	68	-0.06
111	C	1,2-dibromo-3-chloropropane	10.000	9.744	2.6	68	-0.05
112		undecane	10.000	10.030	-0.3	66	-0.06
114		dodecane	10.000	10.605	-6.1	61	-0.06
115	C	1,2,4-trichlorobenzene	10.000	8.558	14.4	53	-0.05
116		naphthalene	10.000	9.221	7.8	60	-0.06
117		1,2,3-trichlorobenzene	10.000	8.926	10.7	58	-0.06
119	C	hexachlorobutadiene	10.000	8.792	12.1	56	-0.06

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543051.D
Acq On : 26 Feb 2024 12:34 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-3,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:30:04 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.175	49	243448	10.000	ppbV	0.00
Standard Area = 240397			Recovery = 101.27%			
43) 1,4-difluorobenzene	11.407	114	709318	10.000	ppbV #	0.01
Standard Area = 687087			Recovery = 103.24%			
67) chlorobenzene-D5	16.083	54	124110	10.000	ppbV	-0.03
Standard Area = 126242			Recovery = 98.31%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.036	85	249816	9.010	ppbV	100
6) chloromethane	4.204	50	91844	8.809	ppbV	97
7) Freon-114	4.312	85	268444	9.997	ppbV	95
9) vinyl chloride	4.432	62	133358	8.771	ppbV	93
10) 1,3-butadiene	4.582	54	88790	8.714	ppbV #	59
13) bromomethane	4.870	94	110066	9.038	ppbV	98
14) chloroethane	5.056	64	73245	9.808	ppbV	97
15) ethanol	5.194	31	370927	40.496	ppbV #	75
17) vinyl bromide	5.440	106	117143	10.419	ppbV	97
19) acetone	5.710	43	835858	60.829	ppbV #	79
21) trichlorofluoromethane	5.903	101	225759	10.895	ppbV	96
22) isopropyl alcohol	5.997	45	421708	24.358	ppbV #	96
26) 1,1-dichloroethene	6.612	61	253743	10.622	ppbV	95
27) tertiary butyl alcohol	6.672	59	269984	9.207	ppbV #	88
28) methylene chloride	6.756	49	173866	9.261	ppbV	96
29) 3-chloropropene	6.888	41	227550	10.759	ppbV	93
30) carbon disulfide	7.062	76	385937	8.755	ppbV	97
31) Freon 113	7.056	101	279964	10.307	ppbV	89
32) trans-1,2-dichloroethene	7.808	61	241392	10.101	ppbV	97
33) 1,1-dichloroethane	8.033	63	310841	10.318	ppbV	97
34) MTBE	8.100	73	330037	9.074	ppbV	98
36) 2-butanone	8.483	43	320192	9.895	ppbV	96
37) cis-1,2-dichloroethene	8.992	61	236405	10.362	ppbV	96
38) Ethyl Acetate	9.258	61	65104	10.776	ppbV	93
39) chloroform	9.333	83	268059	8.979	ppbV	98
40) Tetrahydrofuran	9.767	42	192122	9.505	ppbV	97
42) 1,2-dichloroethane	10.167	62	198942	11.002	ppbV #	93
44) hexane	9.242	57	321662	10.367	ppbV	93

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543051.D
Acq On : 26 Feb 2024 12:34 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-3,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:30:04 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 1,1,1-trichloroethane	10.458	97	244209	10.653	ppbV		97
50) benzene	10.987	78	488044	8.501	ppbV		100
52) carbon tetrachloride	11.160	117	210056	9.830	ppbV		100
53) cyclohexane	11.307	56	332454	9.834	ppbV		91
56) 1,2-dichloropropane	11.933	63	207720	9.964	ppbV		97
57) bromodichloromethane	12.160	83	278696	9.734	ppbV		98
58) 1,4-dioxane	12.200	88	121451	9.181	ppbV		87
59) trichloroethene	12.207	130	207417	9.157	ppbV		96
60) 2,2,4-trimethylpentane	12.253	57	1077583	10.433	ppbV		98
62) heptane	12.567	43	349520	10.246	ppbV		100
63) cis-1,3-dichloropropene	13.217	75	239216	8.939	ppbV		91
64) 4-methyl-2-pentanone	13.258	43	393354	10.169	ppbV		99
65) trans-1,3-dichloropropene	13.842	75	188280	8.828	ppbV		93
66) 1,1,2-trichloroethane	14.033	97	203895	9.855	ppbV		86
68) toluene	14.342	91	641994	9.021	ppbV		97
72) 2-hexanone	14.617	43	355782	9.396	ppbV		100
74) dibromochloromethane	14.783	129	282220	10.196	ppbV		99
75) 1,2-dibromoethane	15.033	107	280910	8.730	ppbV		92
78) tetrachloroethene	15.483	166	232441	8.139	ppbV	#	91
80) chlorobenzene	16.125	112	458117	8.237	ppbV		99
81) ethylbenzene	16.475	91	813987	8.931	ppbV		95
83) m+p-xylene	16.633	91	1369012	19.044	ppbV		95
84) bromoform	16.700	173	243402	10.122	ppbV		99
85) styrene	16.958	104	493632	8.473	ppbV		98
86) 1,1,2,2-tetrachloroethane	17.050	83	470677	8.704	ppbV		97
87) o-xylene	17.050	91	703017	9.804	ppbV		96
96) 4-ethyl toluene	18.108	105	906910	9.425	ppbV		95
97) 1,3,5-trimethylbenzene	18.175	105	888592	9.942	ppbV		93
99) 1,2,4-trimethylbenzene	18.517	105	793259	9.857	ppbV		94
101) Benzyl Chloride	18.633	91	458652	9.473	ppbV		96
102) 1,3-dichlorobenzene	18.650	146	525639M4	9.204	ppbV		
103) 1,4-dichlorobenzene	18.708	146	528881	9.374	ppbV		98
107) 1,2-dichlorobenzene	18.992	146	495726	9.227	ppbV		97
115) 1,2,4-trichlorobenzene	20.492	180	357207	8.558	ppbV		95
119) hexachlorobutadiene	20.925	225	311168	8.792	ppbV		98

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

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543051.D
Acq On : 26 Feb 2024 12:34 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-3,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:30:04 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

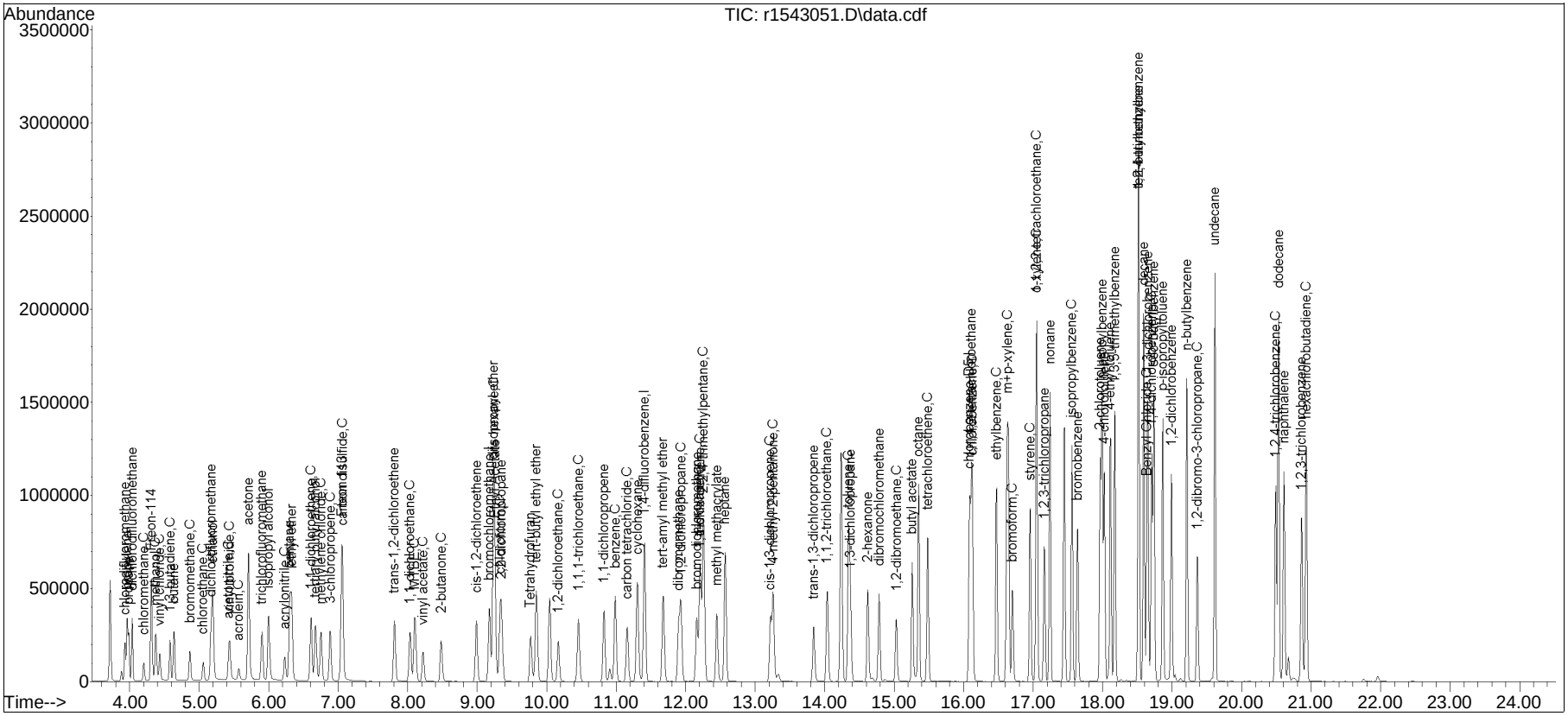
CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : Default-LCS-AP2 - All compounds listed

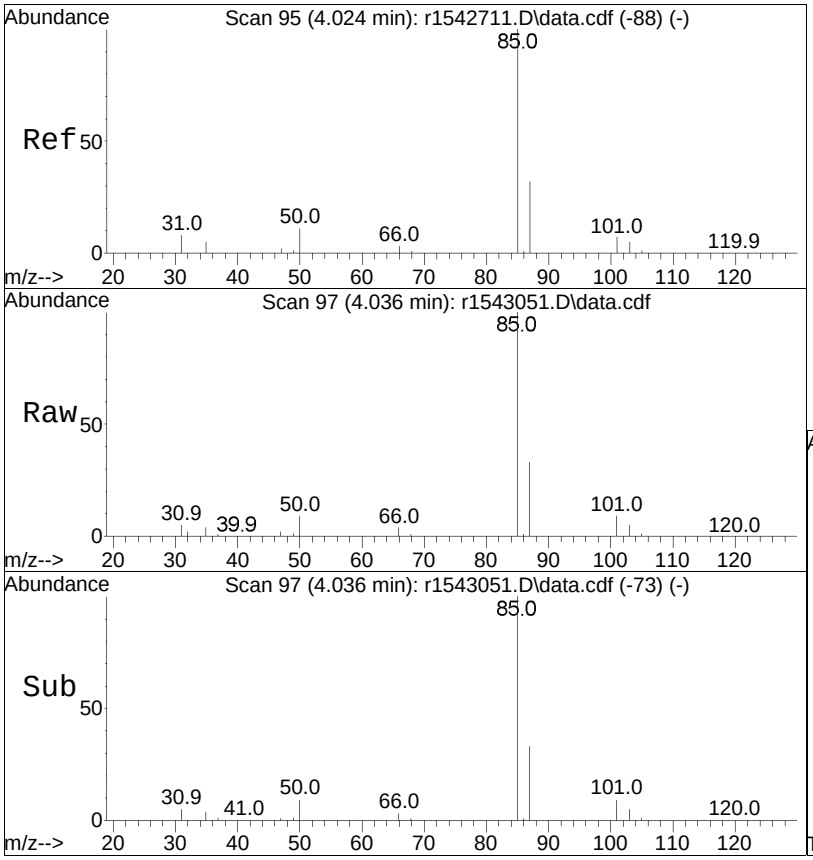
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed6T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543051.D
Acq On : 26 Feb 2024 12:34 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-3,3,250,250,,
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:30:04 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

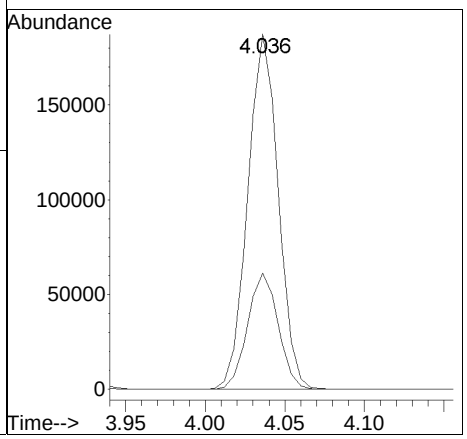


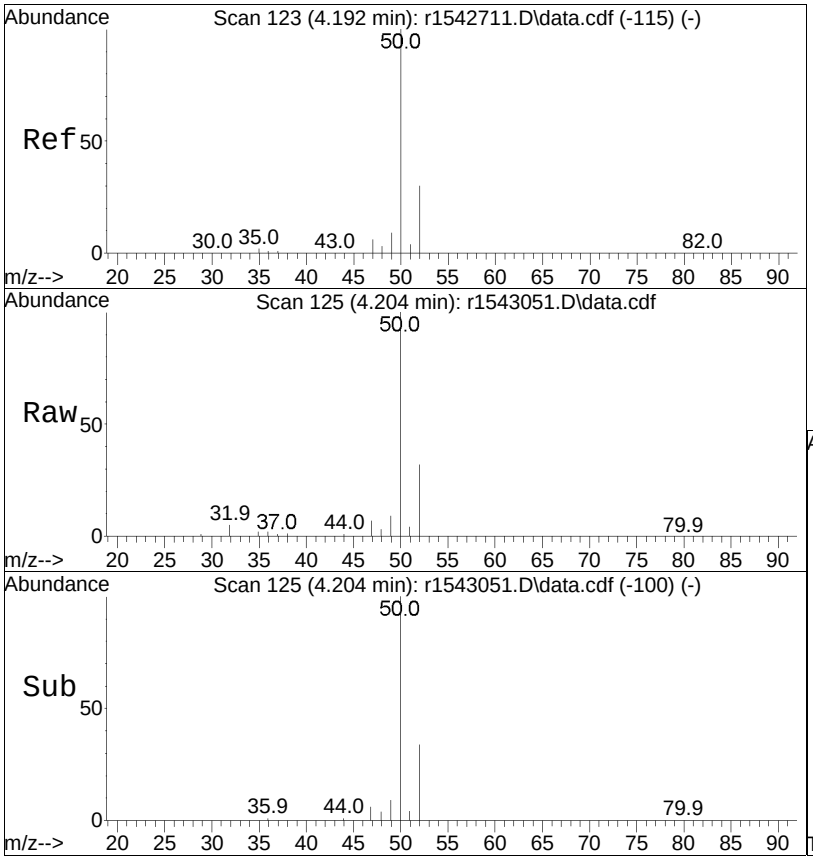


#5
dichlorodifluoromethane
Concen: 9.01 ppbV
RT: 4.036 min Scan# 97
Delta R.T. -0.058 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 85 Resp: 249816

Ion	Ratio	Lower	Upper
85	100		
87	32.8	26.1	39.1

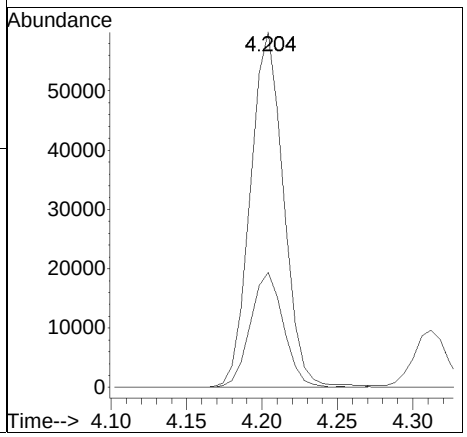


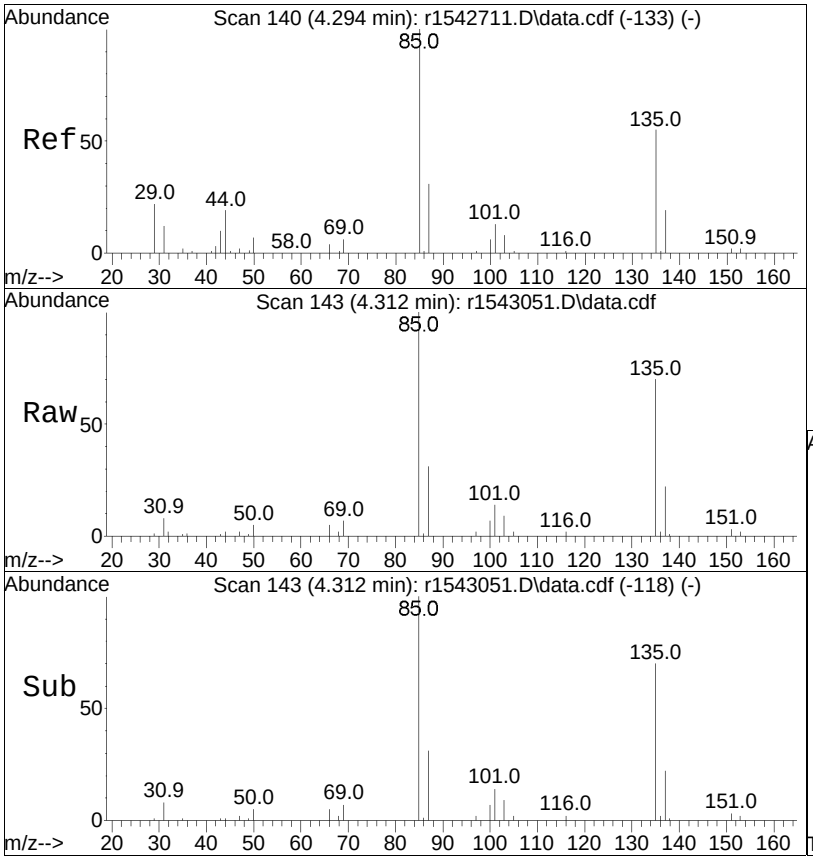


#6
chloromethane
Concen: 8.81 ppbV
RT: 4.204 min Scan# 125
Delta R.T. -0.052 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 50 Resp: 91844

Ion	Ratio	Lower	Upper
50	100		
52	32.4	27.4	41.2

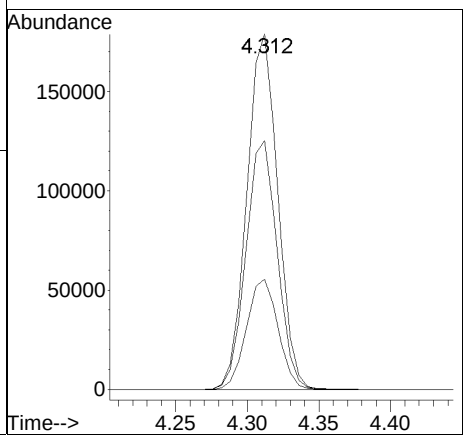


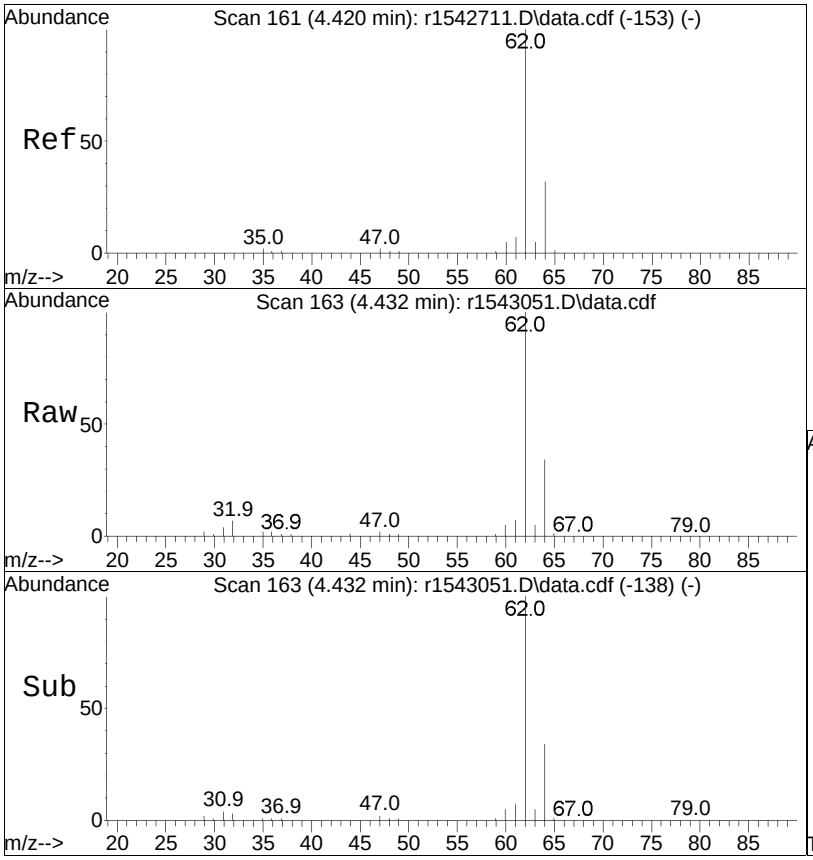


#7
Freon-114
Concen: 10.00 ppbV
RT: 4.312 min Scan# 143
Delta R.T. -0.052 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 85 Resp: 268444

Ion	Ratio	Lower	Upper
85	100		
87	31.0	27.1	40.7
135	70.0	59.8	89.8

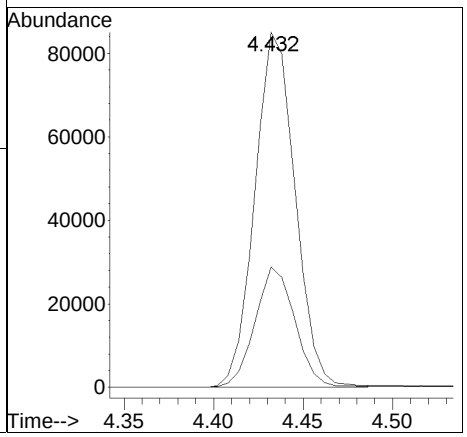


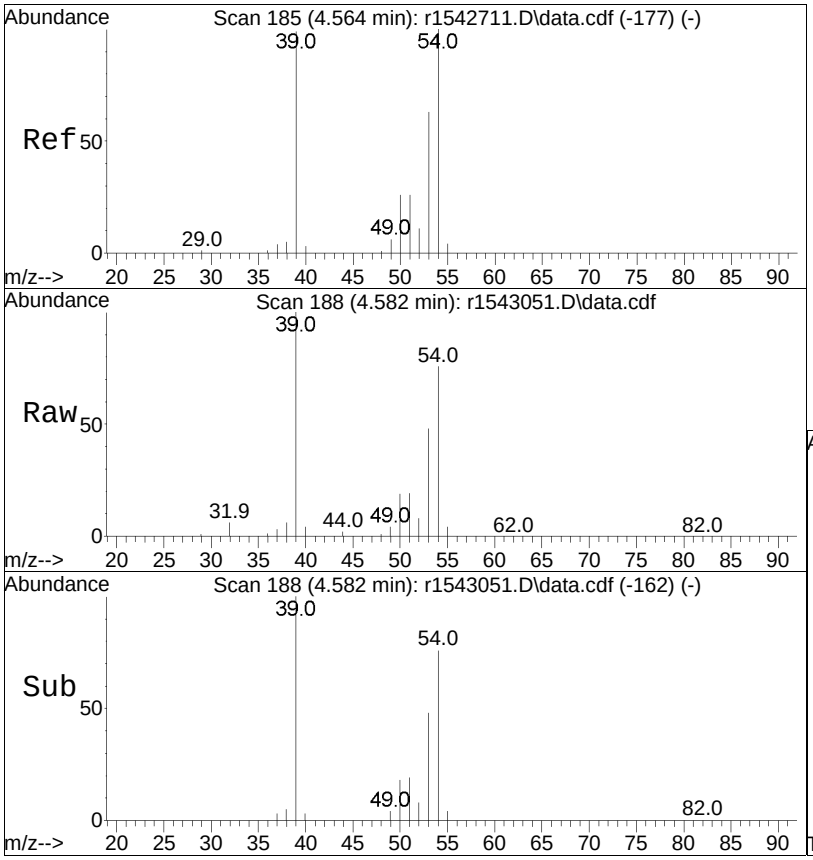


#9
vinyl chloride
Concen: 8.77 ppbV
RT: 4.432 min Scan# 163
Delta R.T. -0.052 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 62 Resp: 133358

Ion	Ratio	Lower	Upper
62	100		
64	33.8	24.2	36.2

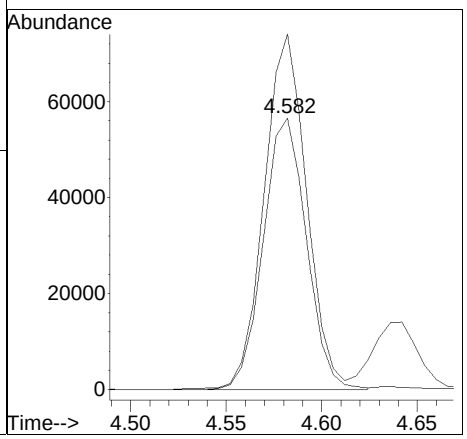


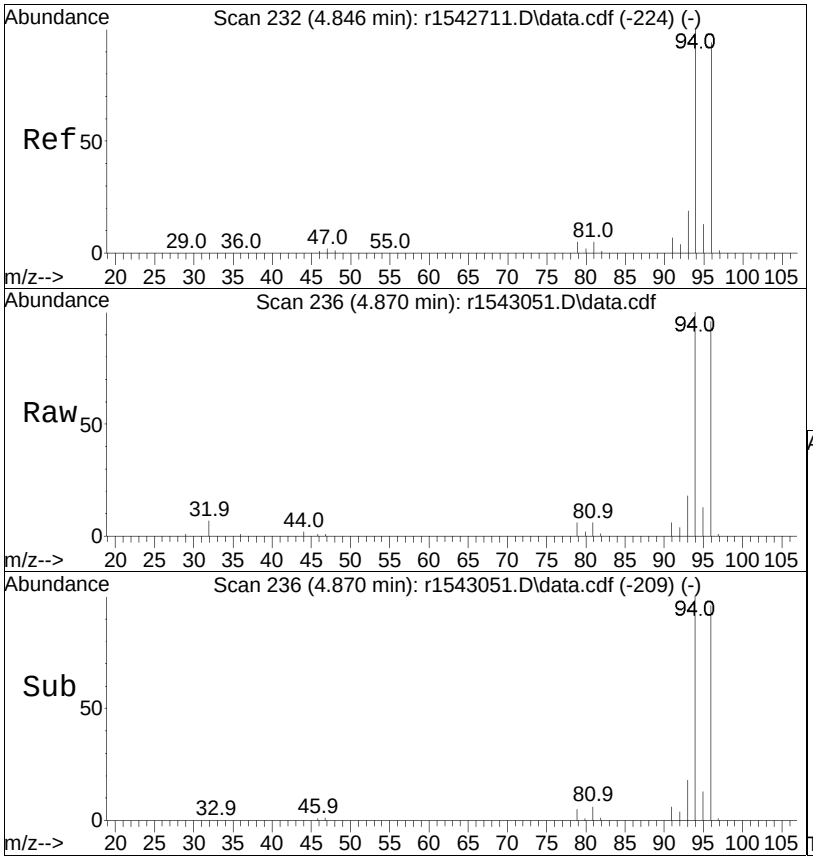


#10
1,3-butadiene
Concen: 8.71 ppbV
RT: 4.582 min Scan# 188
Delta R.T. -0.046 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 54 Resp: 88790

Ion	Ratio	Lower	Upper
54	100		
39	131.0	73.8	110.8#

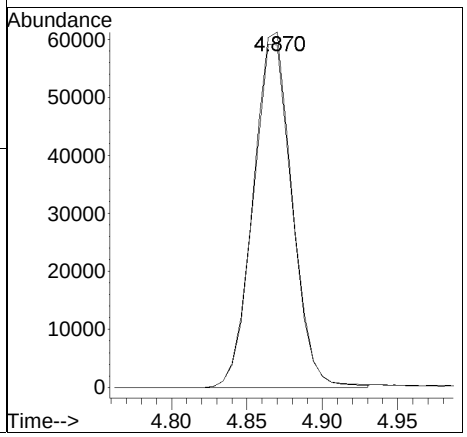


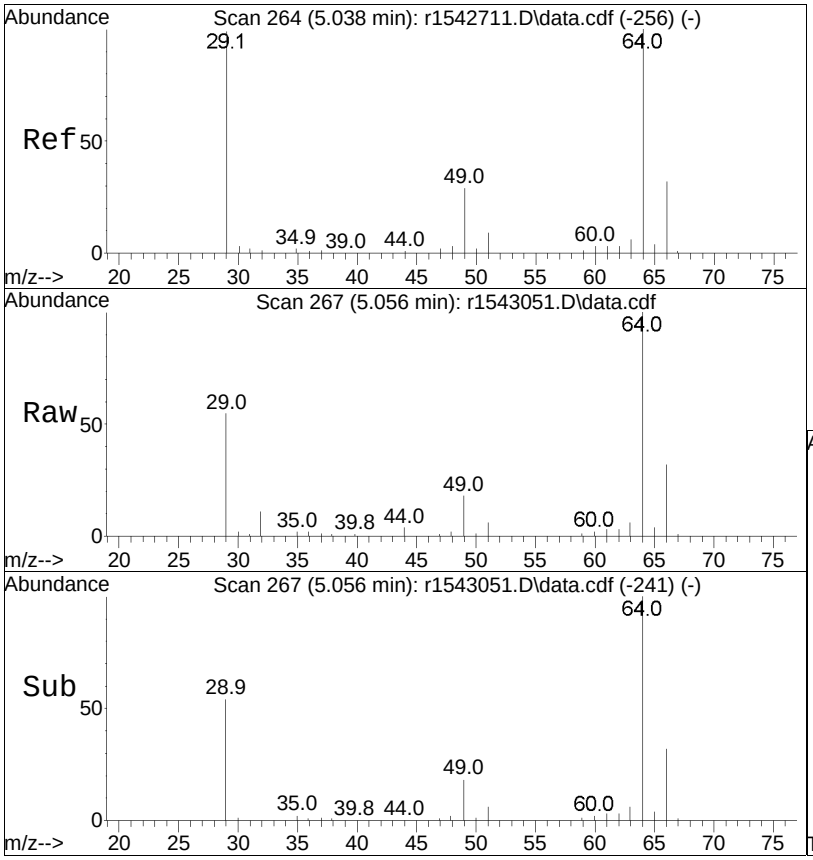


#13
bromomethane
Concen: 9.04 ppbV
RT: 4.870 min Scan# 236
Delta R.T. -0.040 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 94 Resp: 110066

Ion	Ratio	Lower	Upper
94	100		
96	96.4	75.4	113.2

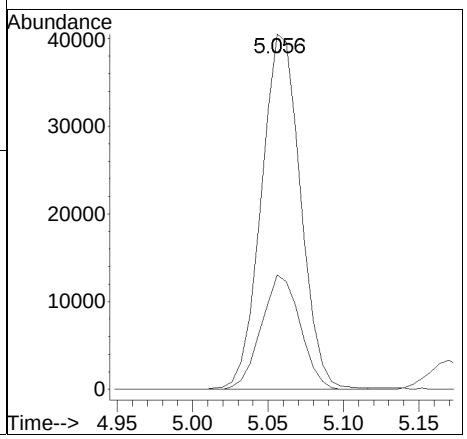


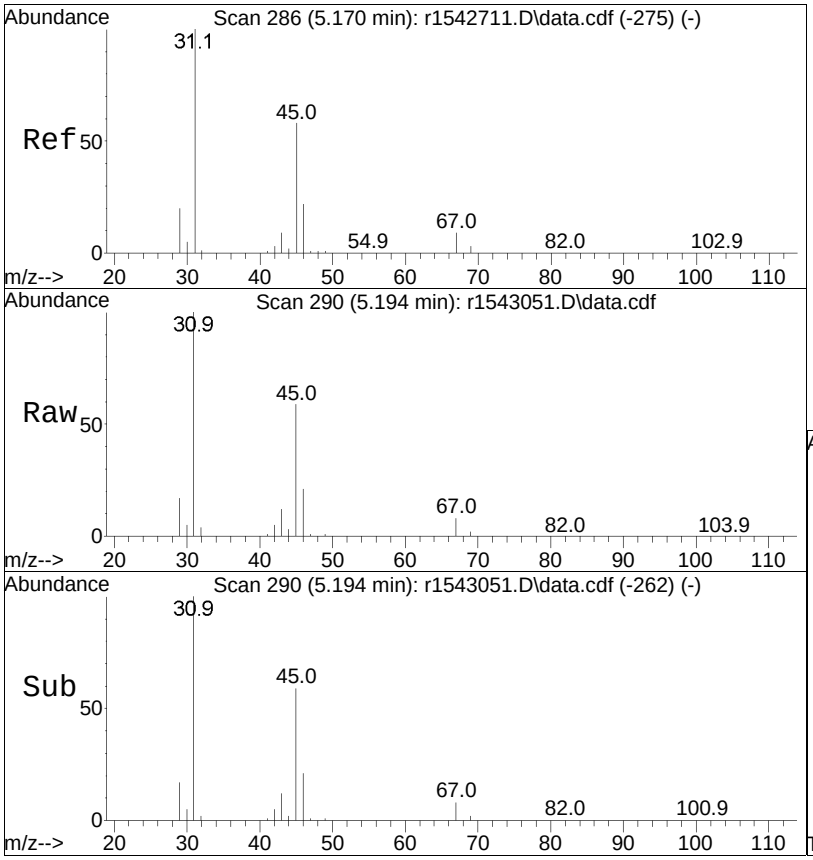


#14
chloroethane
Concen: 9.81 ppbV
RT: 5.056 min Scan# 267
Delta R.T. -0.046 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 64 Resp: 73245

Ion	Ratio	Lower	Upper
64	100		
66	32.2	24.6	37.0

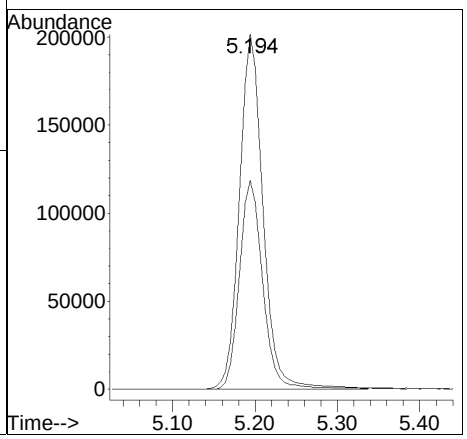


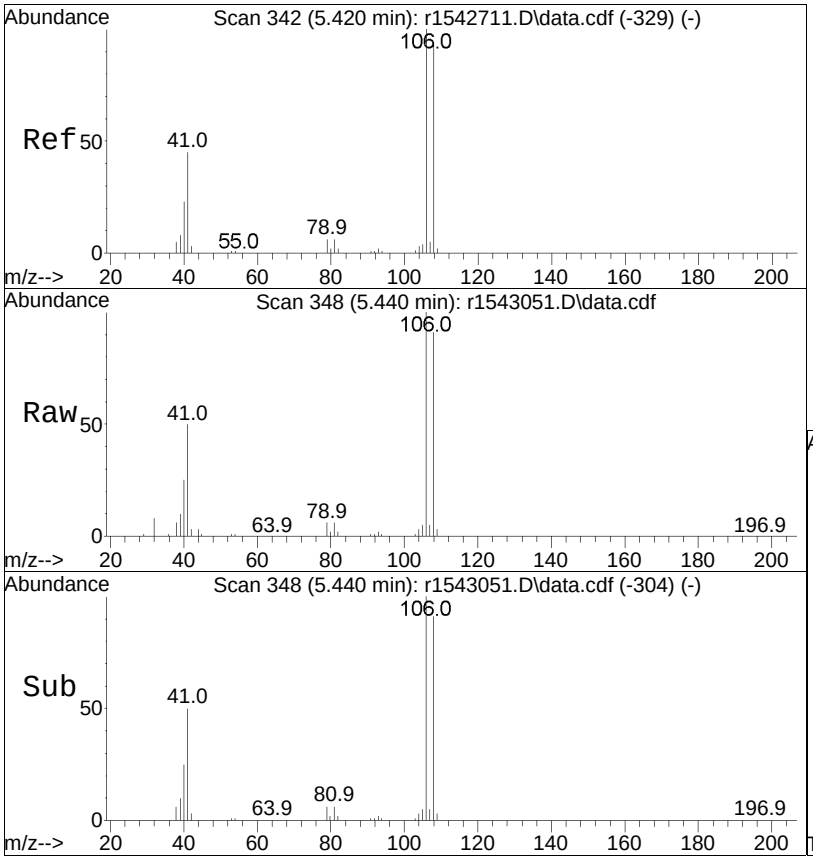


#15
ethanol
Concen: 40.50 ppbV
RT: 5.194 min Scan# 290
Delta R.T. -0.034 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 31 Resp: 370927

Ion	Ratio	Lower	Upper
31	100		
45	58.8	34.2	51.2#

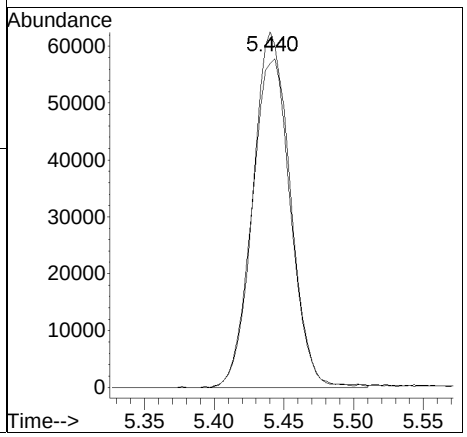


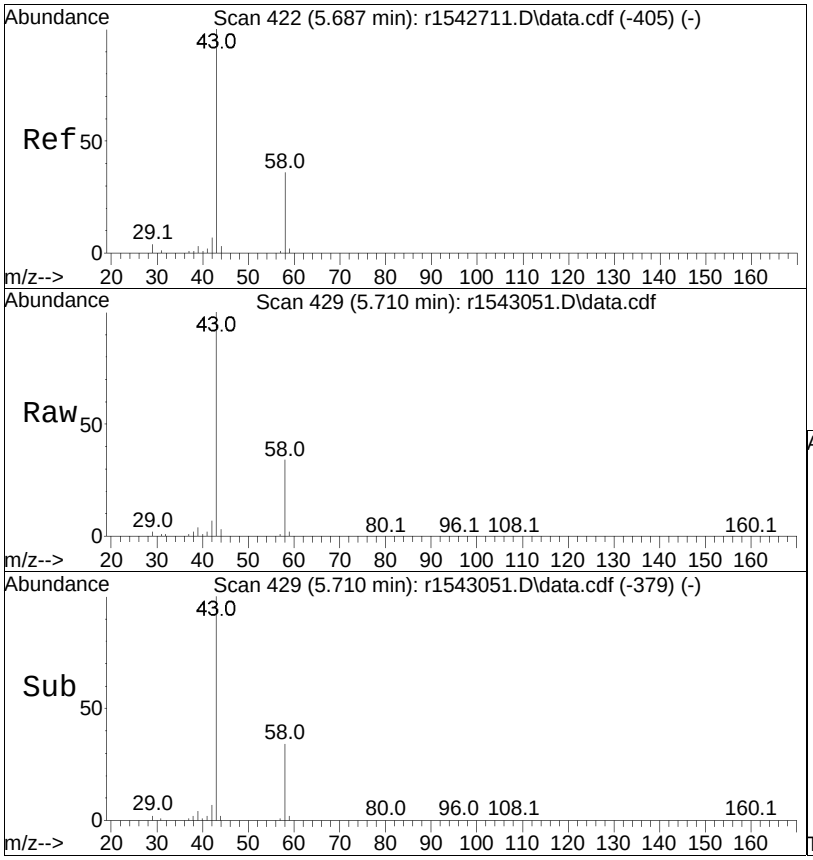


#17
vinyl bromide
Concen: 10.42 ppbV
RT: 5.440 min Scan# 348
Delta R.T. -0.040 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:106 Resp: 117143

Ion	Ratio	Lower	Upper
106	100		
108	91.2	75.0	112.6

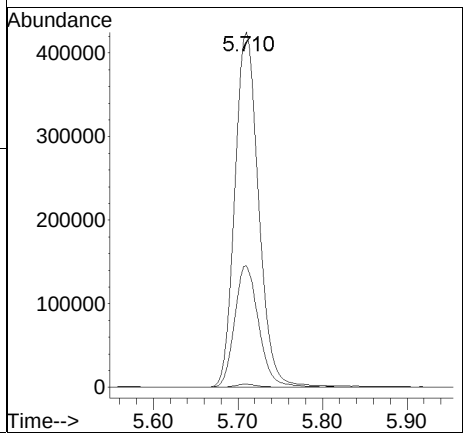


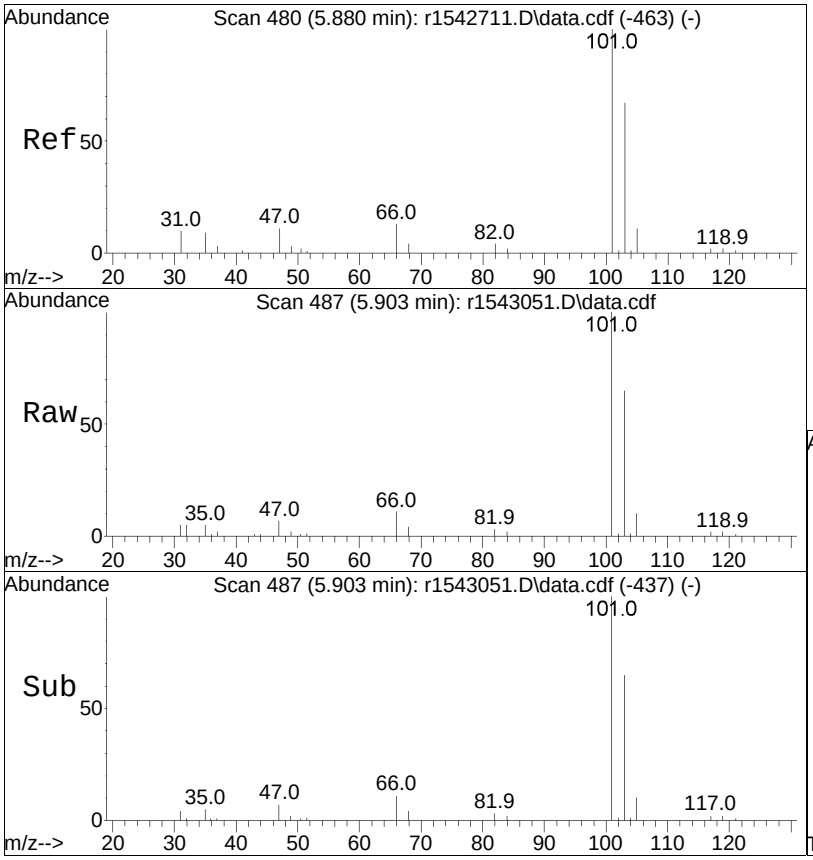


#19
acetone
Concen: 60.83 ppbV
RT: 5.710 min Scan# 429
Delta R.T. -0.033 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 43 Resp: 835858

Ion	Ratio	Lower	Upper
43	100		
58	34.2	39.0	58.4#
57	0.9	0.9	1.3

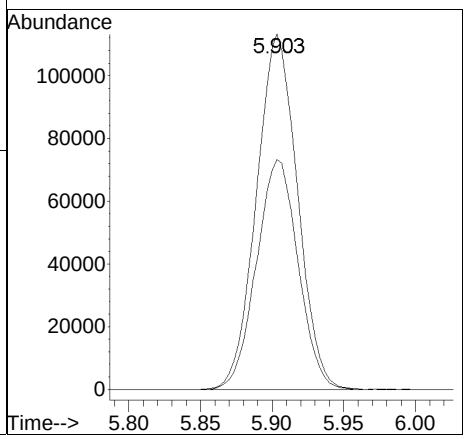


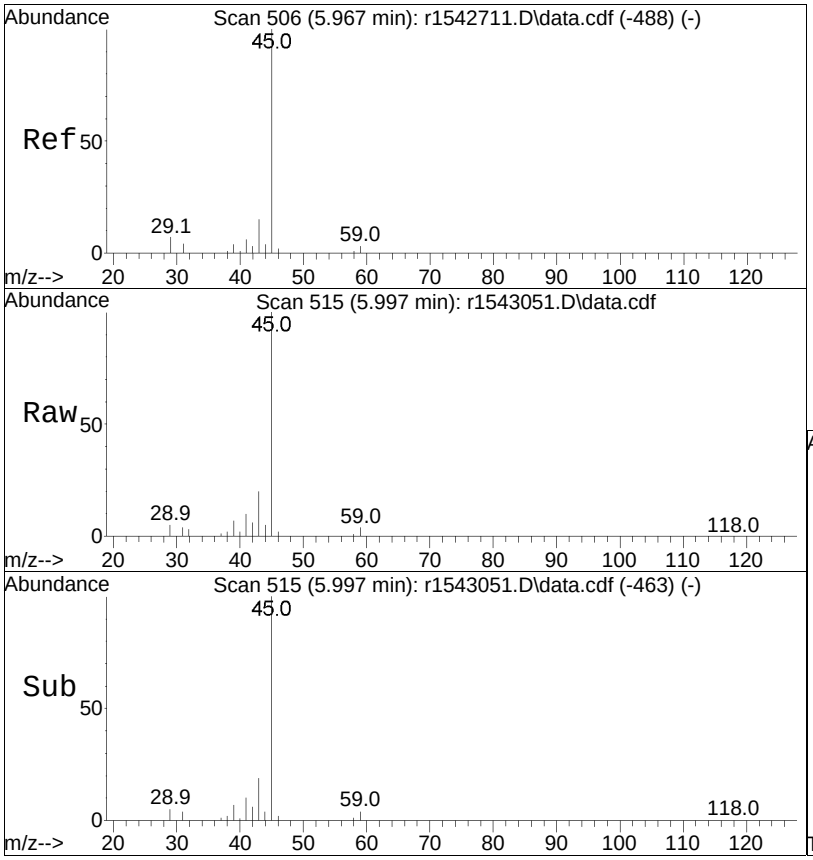


#21
trichlorofluoromethane
Concen: 10.90 ppbV
RT: 5.903 min Scan# 487
Delta R.T. -0.033 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:101 Resp: 225759

Ion	Ratio	Lower	Upper
101	100		
103	64.7	49.4	74.0

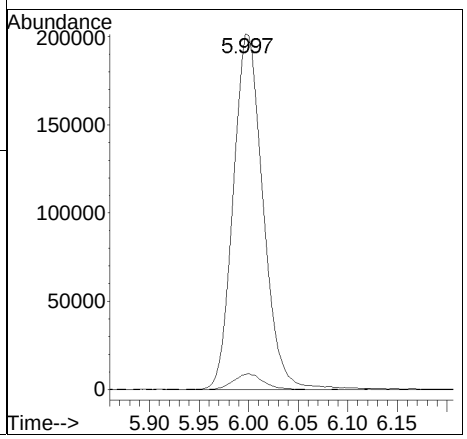


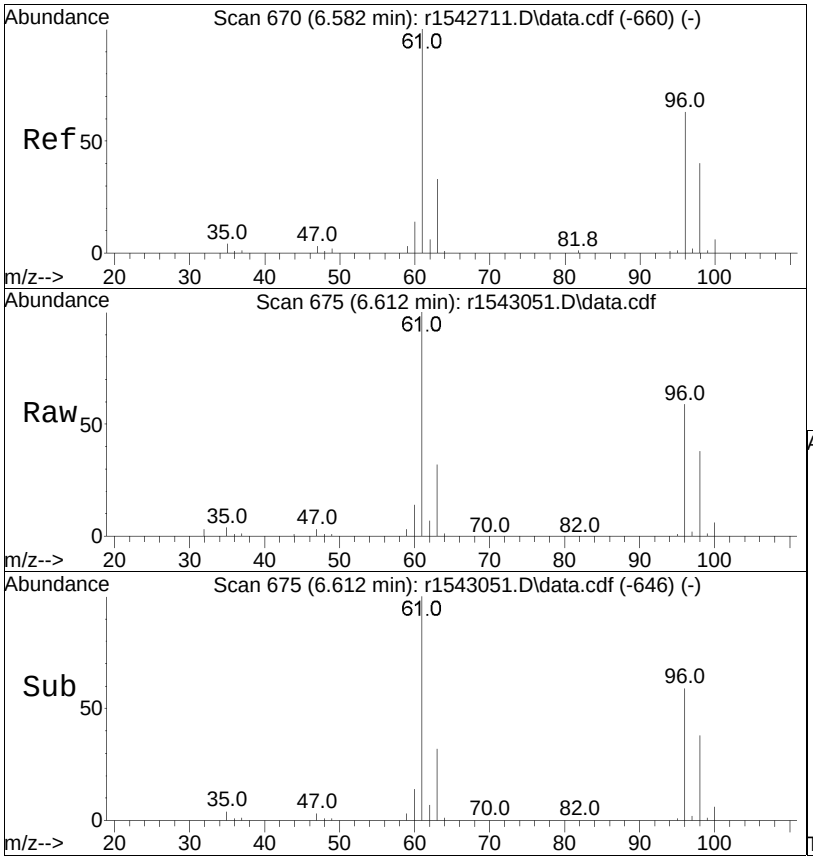


#22
isopropyl alcohol
Concen: 24.36 ppbV
RT: 5.997 min Scan# 515
Delta R.T. -0.027 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 45 Resp: 421708

Ion	Ratio	Lower	Upper
45	100		
59	4.2	4.6	6.8#

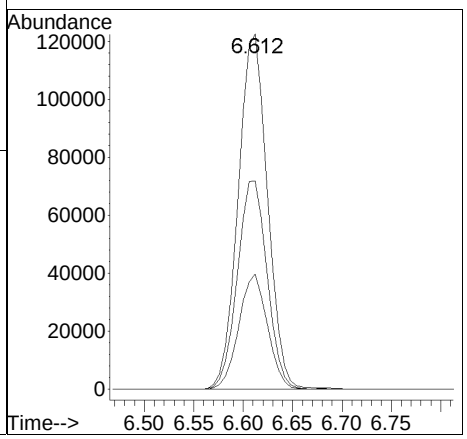


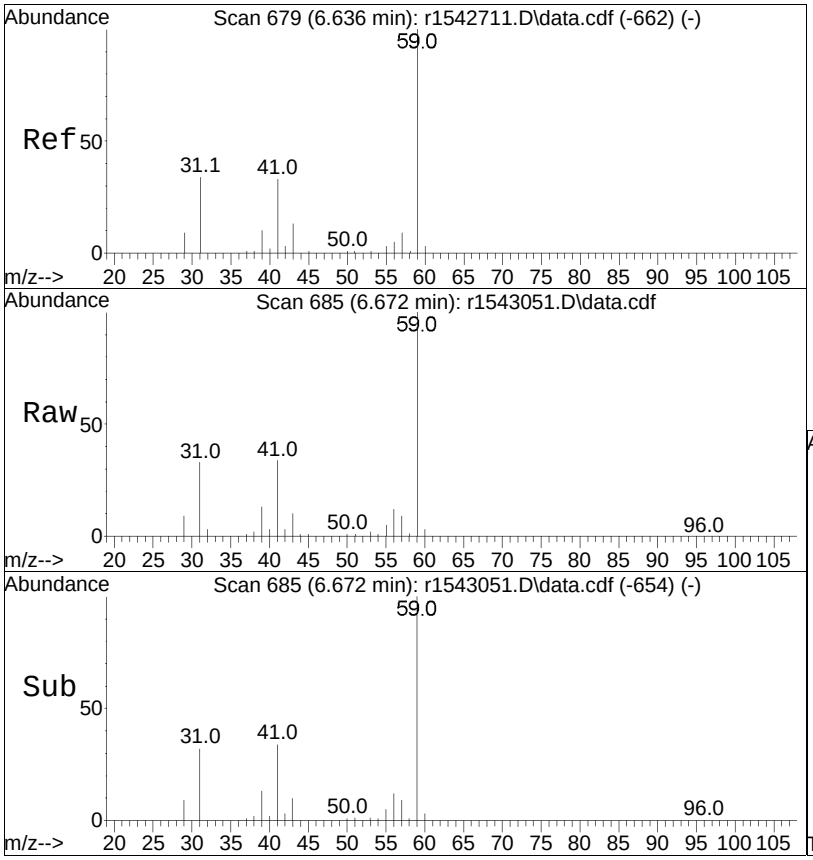


#26
1,1-dichloroethene
Concen: 10.62 ppbV
RT: 6.612 min Scan# 675
Delta R.T. -0.022 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 61 Resp: 253743

Ion	Ratio	Lower	Upper
61	100		
96	58.7	50.6	76.0
63	32.5	25.1	37.7

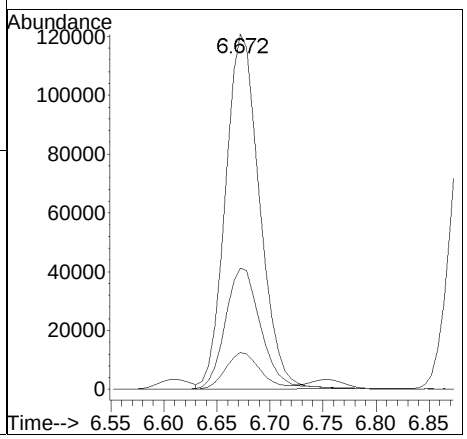


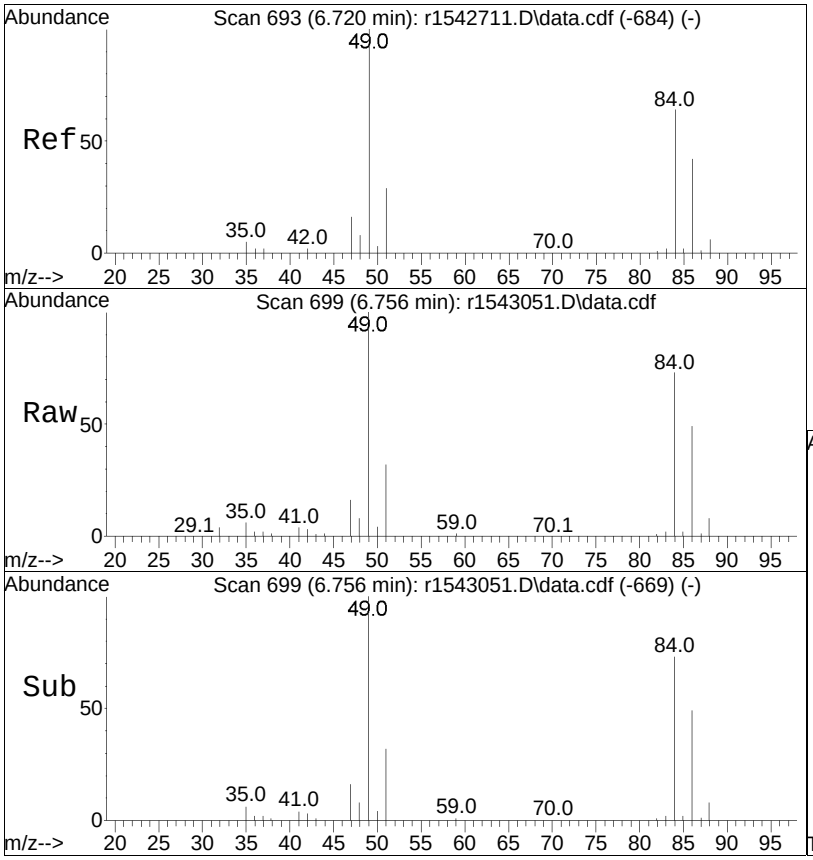


#27
tertiary butyl alcohol
Concen: 9.21 ppbV
RT: 6.672 min Scan# 685
Delta R.T. -0.016 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 59 Resp: 269984

Ion	Ratio	Lower	Upper
59	100		
41	34.2	21.0	31.4#
43	10.4	7.7	11.5

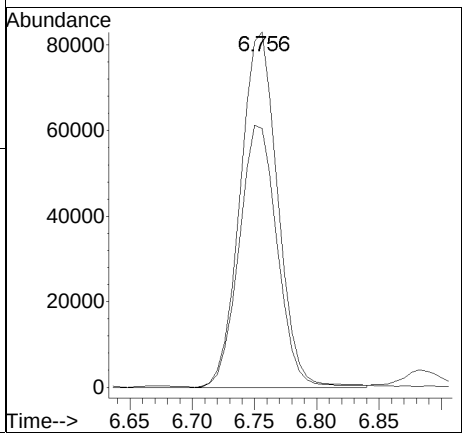


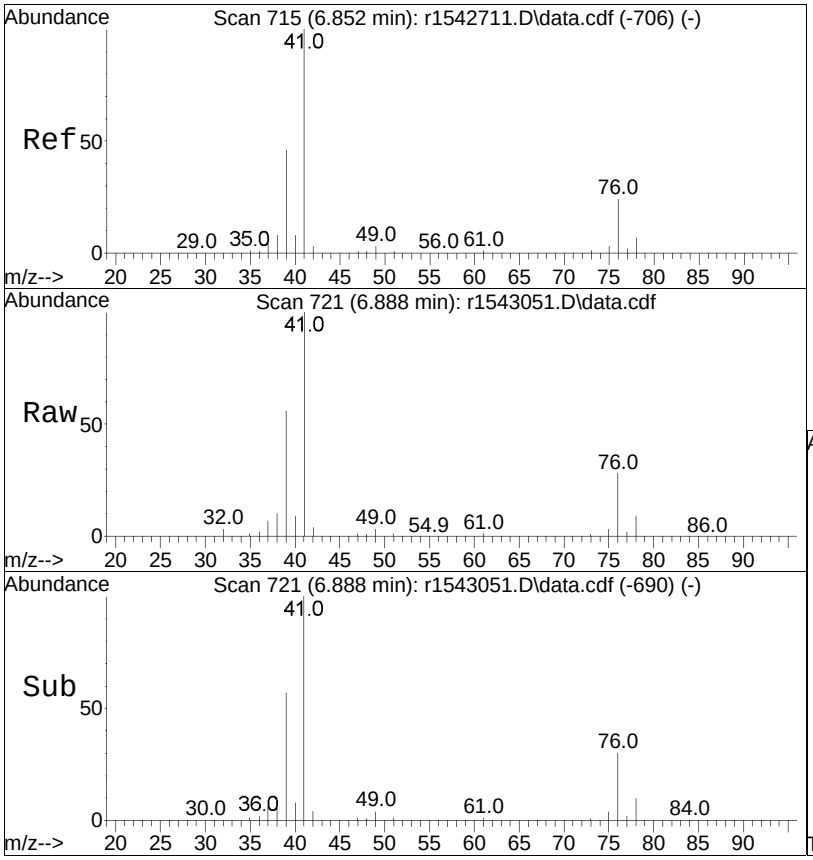


#28
methylene chloride
Concen: 9.26 ppbV
RT: 6.756 min Scan# 699
Delta R.T. -0.022 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 49 Resp: 173866

Ion	Ratio	Lower	Upper
49	100		
84	72.9	61.2	91.8

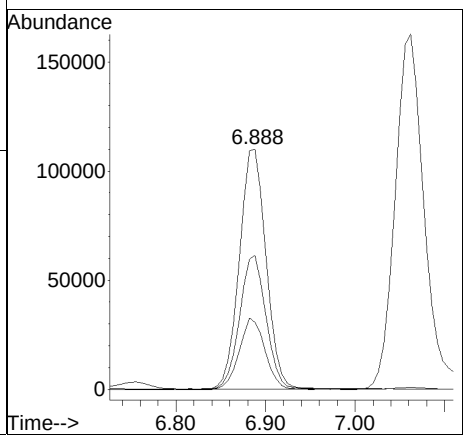


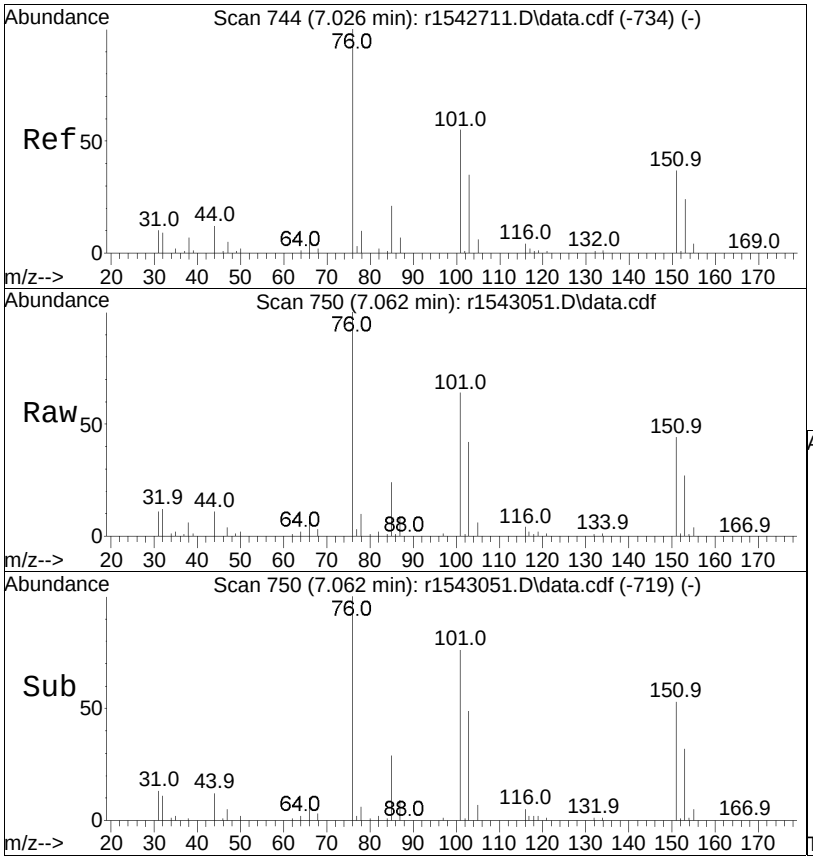


#29
3-chloropropene
Concen: 10.76 ppbV
RT: 6.888 min Scan# 721
Delta R.T. -0.016 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 41 Resp: 227550

Ion	Ratio	Lower	Upper
41	100		
39	55.8	40.8	61.2
76	27.9	25.9	38.9

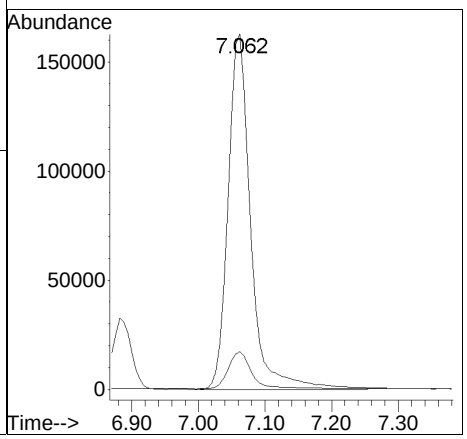


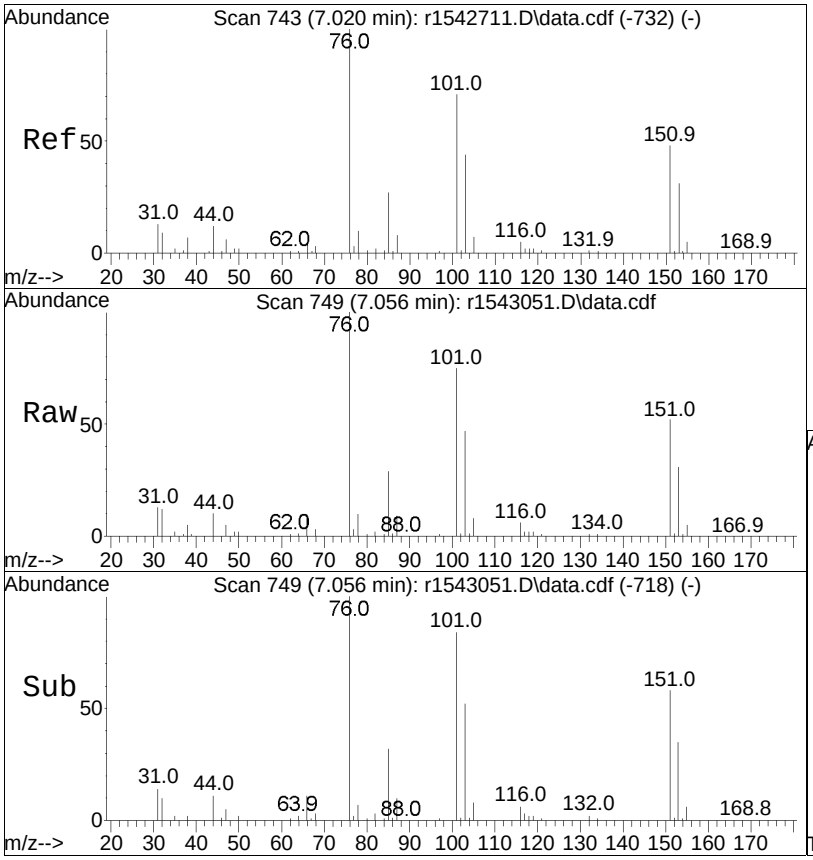


#30
carbon disulfide
Concen: 8.76 ppbV
RT: 7.062 min Scan# 750
Delta R.T. -0.016 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 76 Resp: 385937

Ion	Ratio	Lower	Upper
76	100		
44	10.6	7.8	11.6

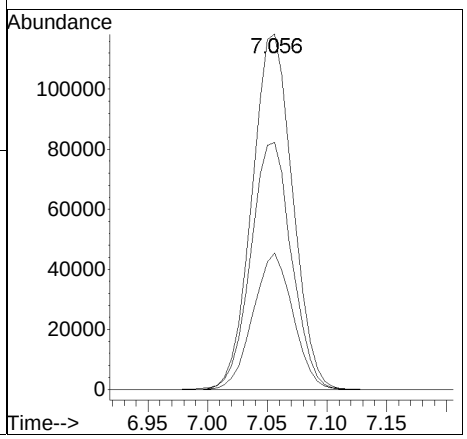


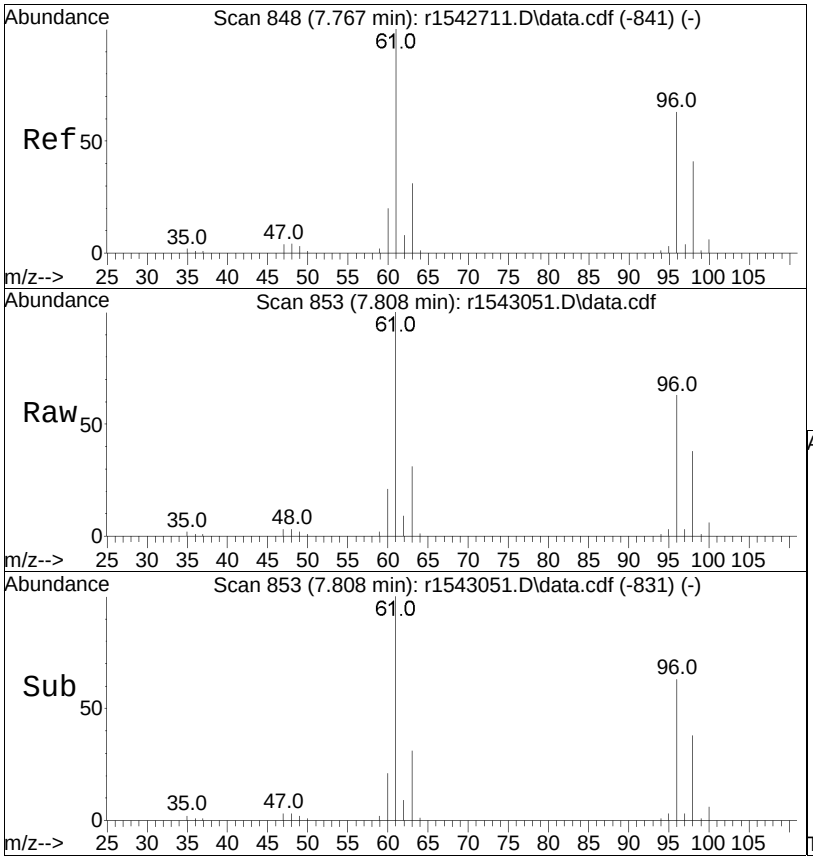


#31
Freon 113
Concen: 10.31 ppbV
RT: 7.056 min Scan# 749
Delta R.T. -0.016 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:101 Resp: 279964

Ion	Ratio	Lower	Upper
101	100		
85	38.3	35.3	52.9
151	69.5	63.8	95.8

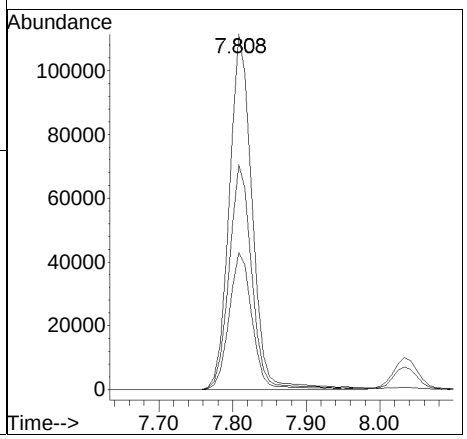


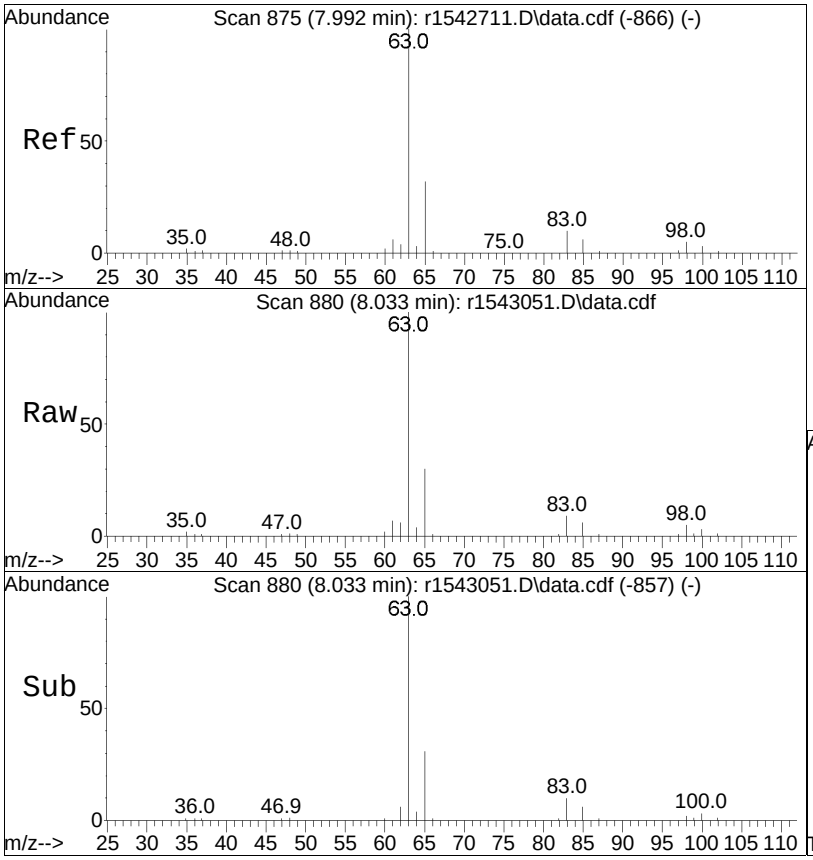


#32
trans-1,2-dichloroethene
Concen: 10.10 ppbV
RT: 7.808 min Scan# 853
Delta R.T. -0.017 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 61 Resp: 241392

Ion	Ratio	Lower	Upper
61	100		
96	63.3	52.2	78.4
98	38.5	33.0	49.4

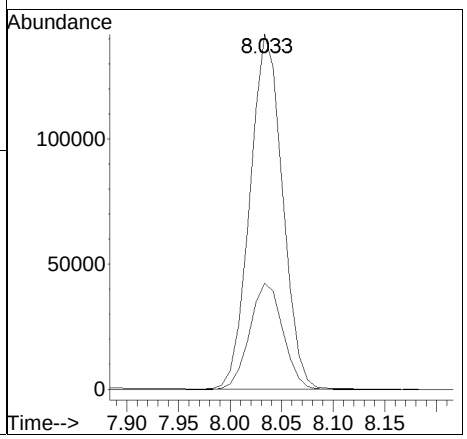


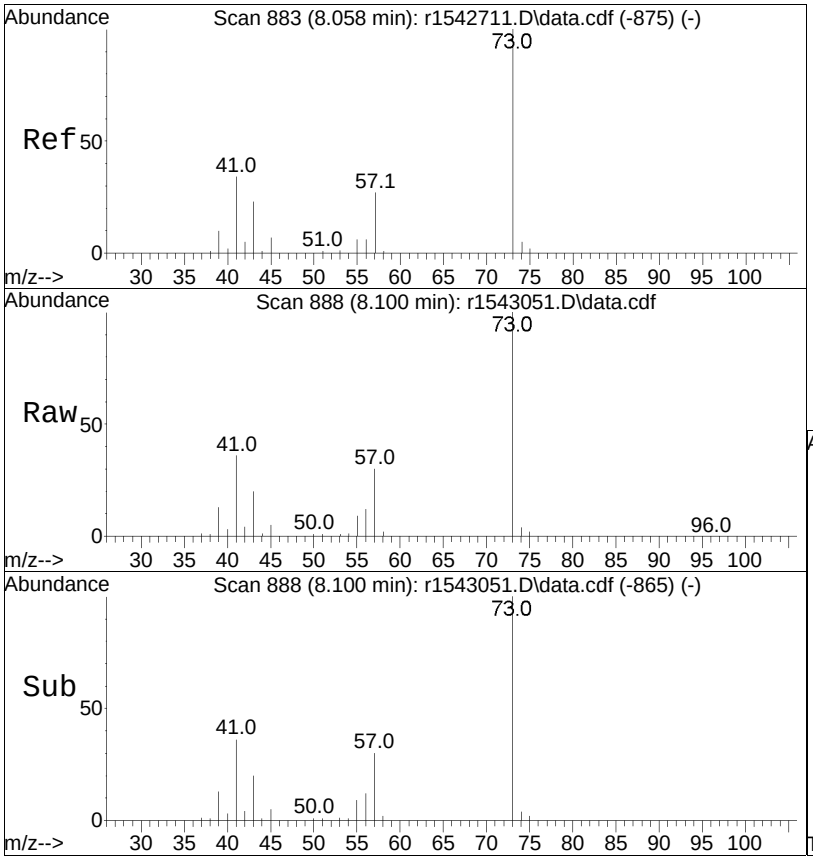


#33
1,1-dichloroethane
Concen: 10.32 ppbV
RT: 8.033 min Scan# 880
Delta R.T. -0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 63 Resp: 310841

Ion	Ratio	Lower	Upper
63	100		
65	29.9	25.2	37.8

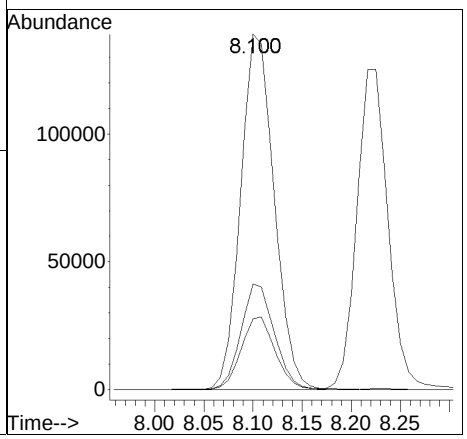


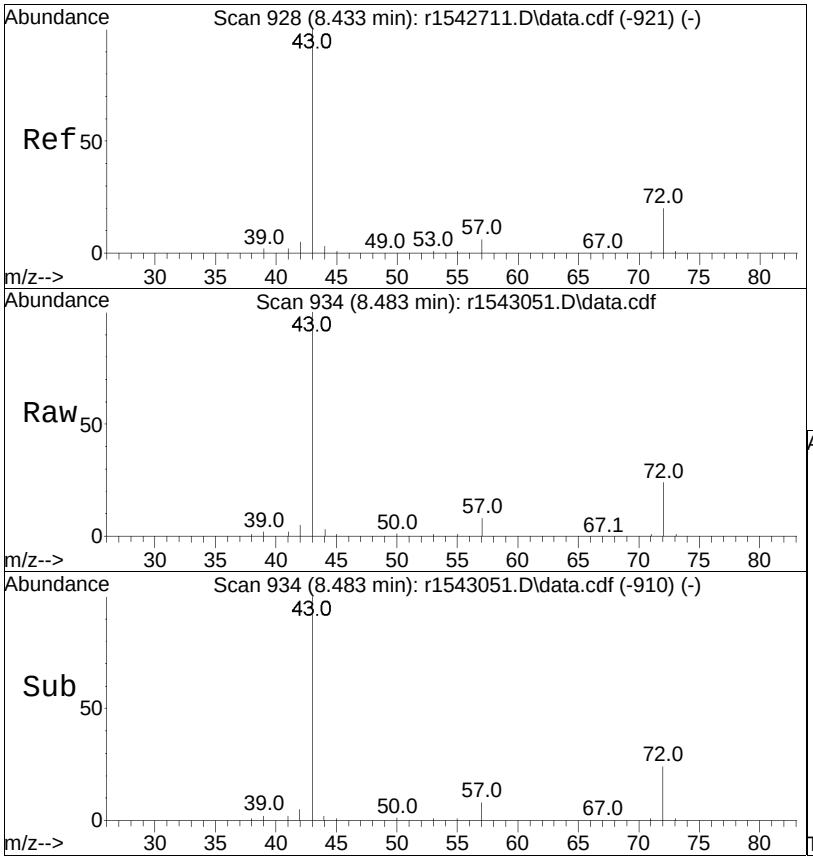


#34
MTBE
Concen: 9.07 ppbV
RT: 8.100 min Scan# 888
Delta R.T. -0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 73 Resp: 330037

Ion	Ratio	Lower	Upper
73	100		
57	29.7	23.0	34.4
43	19.9	15.4	23.2

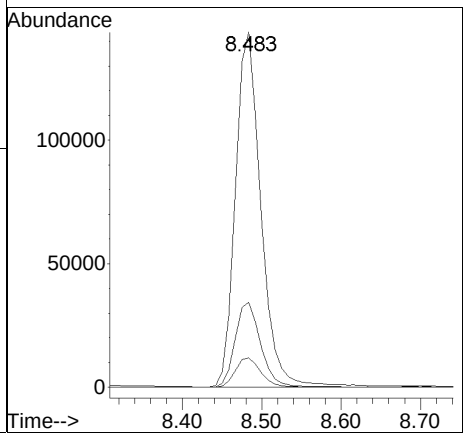


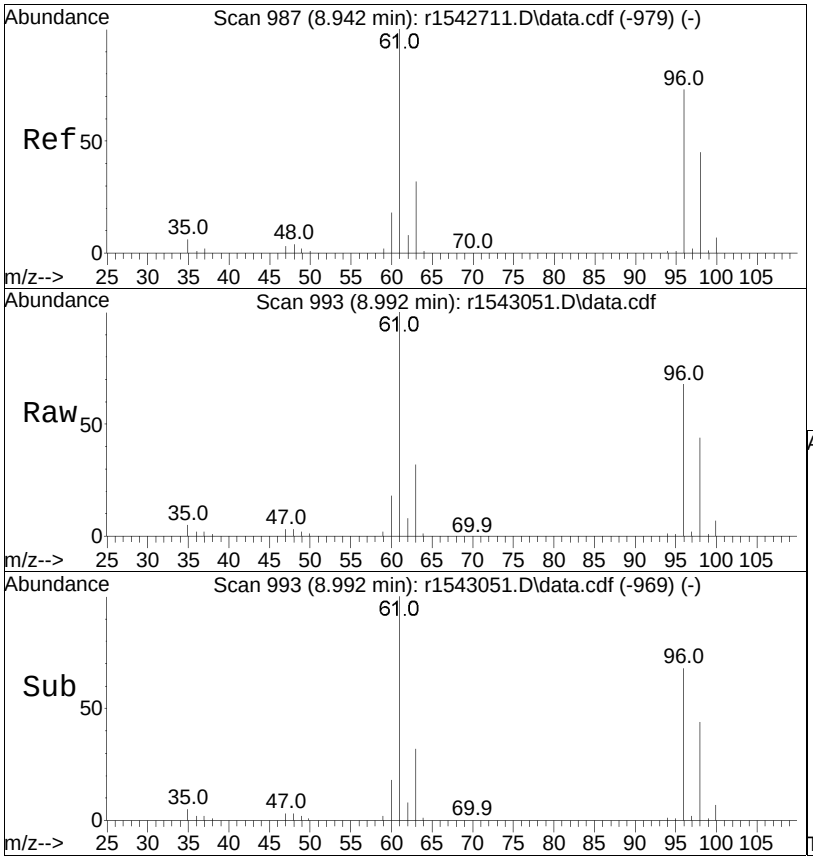


#36
2-butanone
Concen: 9.90 ppbV
RT: 8.483 min Scan# 934
Delta R.T. 0.000 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 43 Resp: 320192

Ion	Ratio	Lower	Upper
43	100		
72	23.9	21.0	31.4
57	8.3	7.1	10.7

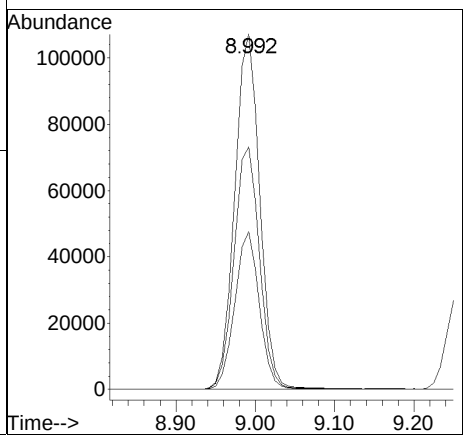


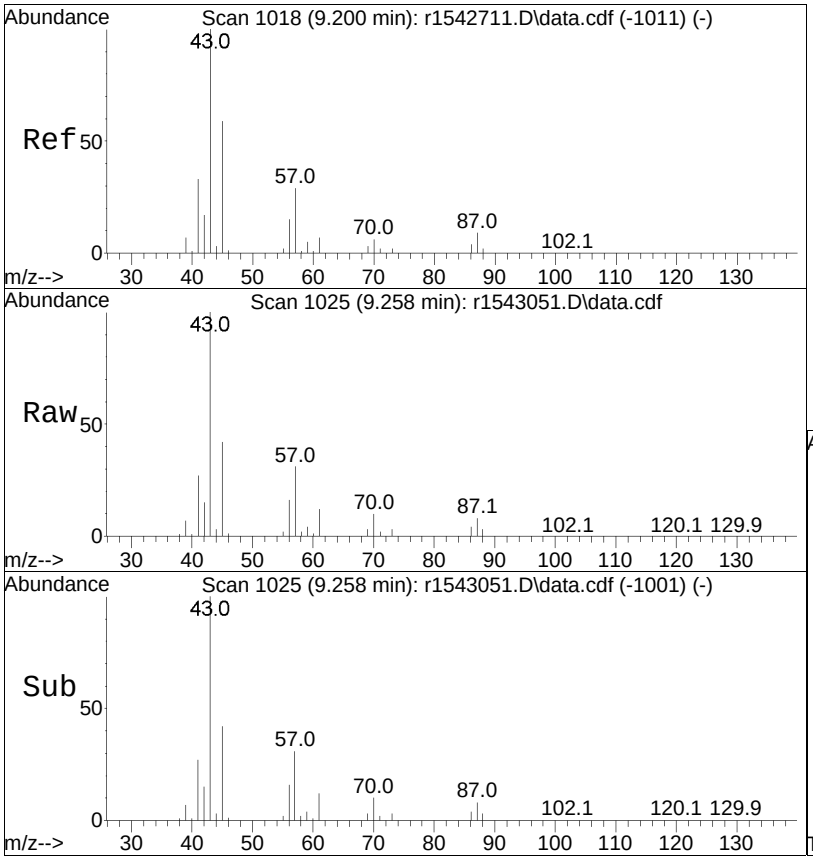


#37
cis-1,2-dichloroethene
Concen: 10.36 ppbV
RT: 8.992 min Scan# 993
Delta R.T. 0.000 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 61 Resp: 236405

Ion	Ratio	Lower	Upper
61	100		
96	68.3	57.8	86.6
98	44.4	37.6	56.4

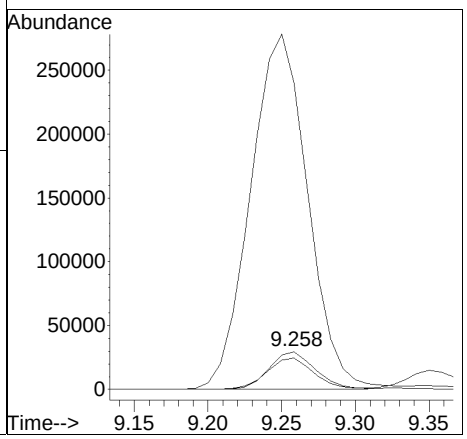


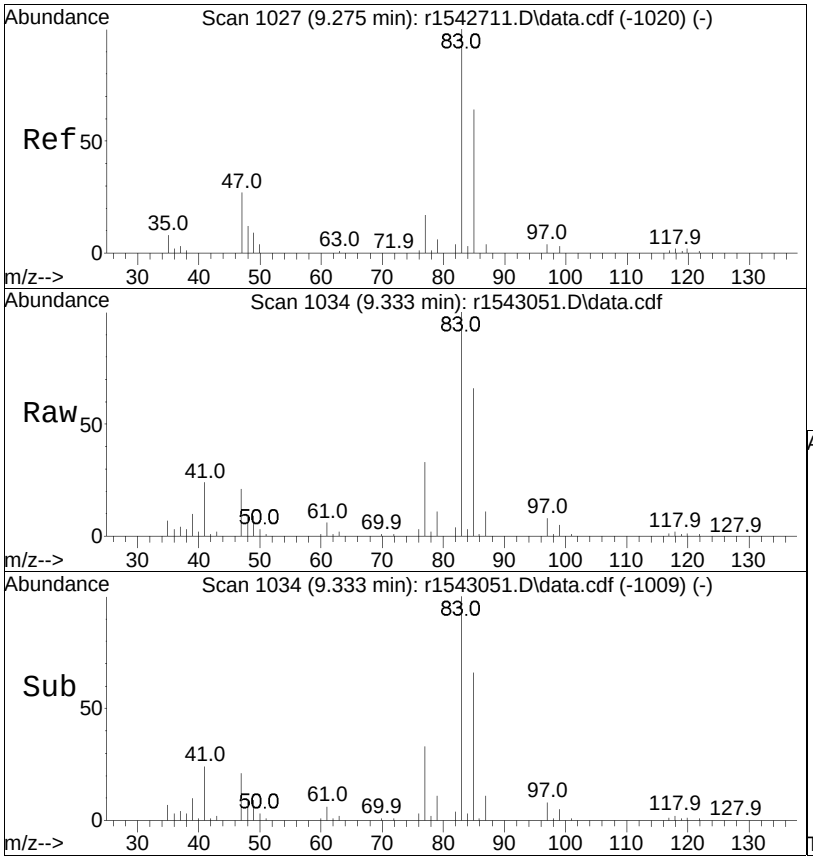


#38
Ethyl Acetate
Concen: 10.78 ppbV
RT: 9.258 min Scan# 1025
Delta R.T. 0.000 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 61 Resp: 65104

Ion	Ratio	Lower	Upper
61	100		
70	83.6	69.4	104.2
43	814.9	676.1	1014.1

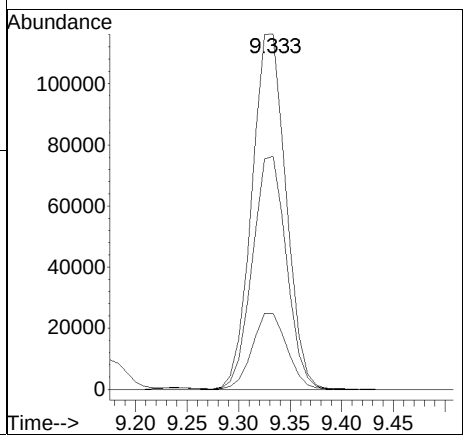


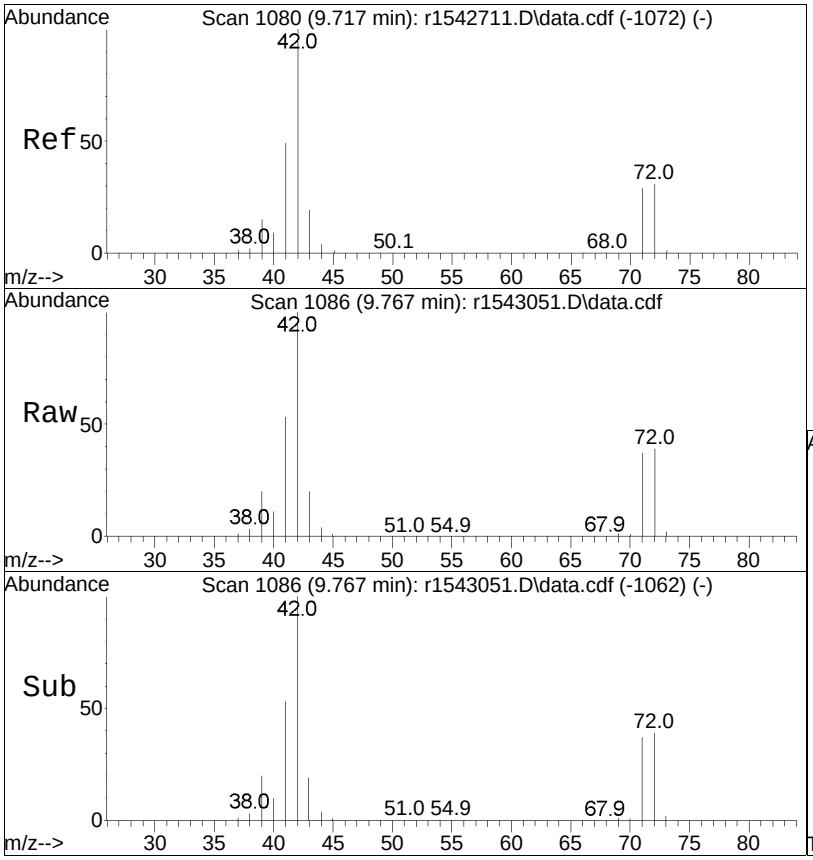


#39
chloroform
Concen: 8.98 ppbV
RT: 9.333 min Scan# 1034
Delta R.T. 0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 83 Resp: 268059

Ion	Ratio	Lower	Upper
83	100		
85	65.6	51.5	77.3
47	21.4	15.9	23.9

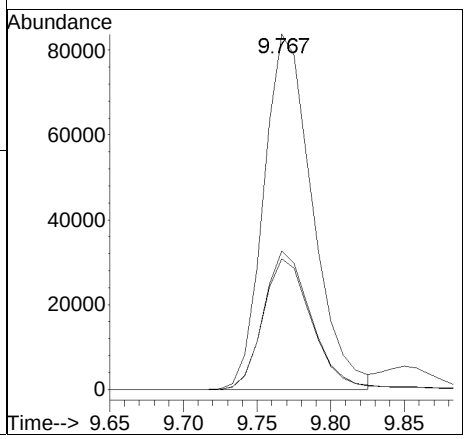


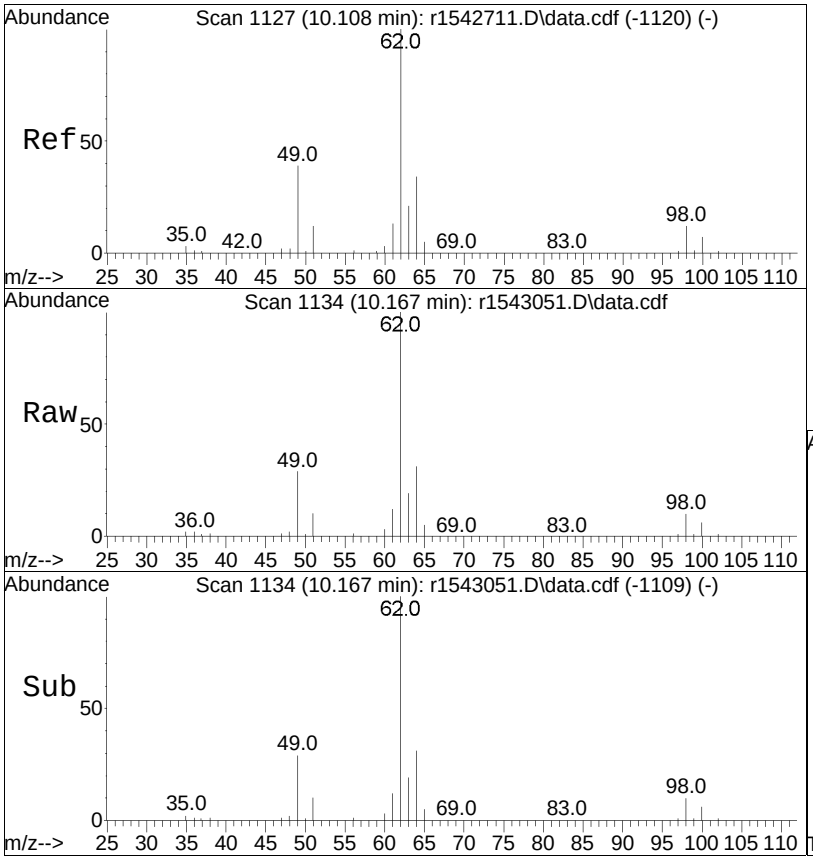


#40
Tetrahydrofuran
Concen: 9.50 ppbV
RT: 9.767 min Scan# 1086
Delta R.T. 0.000 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 42 Resp: 192122

Ion	Ratio	Lower	Upper
42	100		
71	36.7	30.6	46.0
72	38.9	32.5	48.7

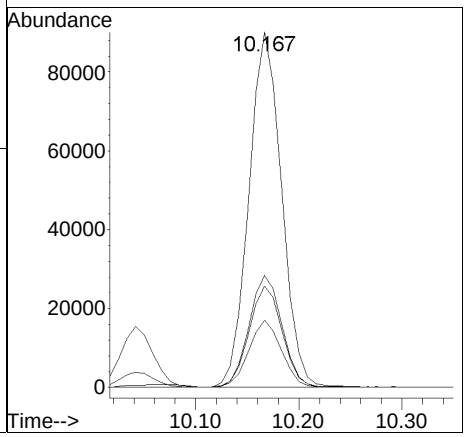


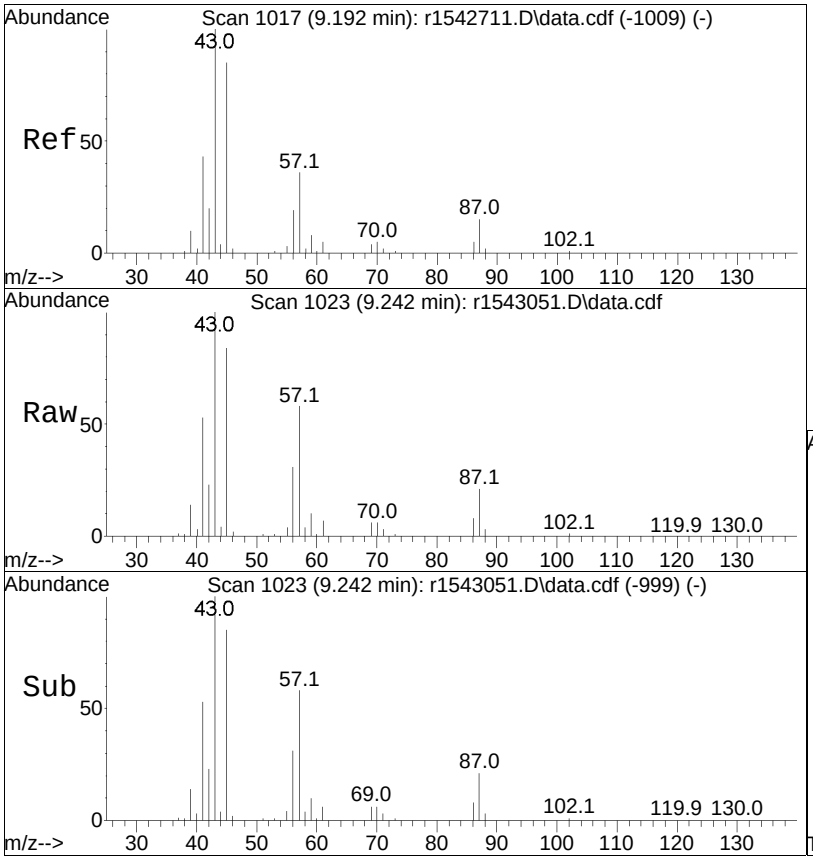


#42
1,2-dichloroethane
Concen: 11.00 ppbV
RT: 10.167 min Scan# 1134
Delta R.T. 0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 62 Resp: 198942

Ion	Ratio	Lower	Upper
62	100		
64	31.5	24.3	36.5
49	28.5	29.3	43.9#
63	18.9	15.2	22.8

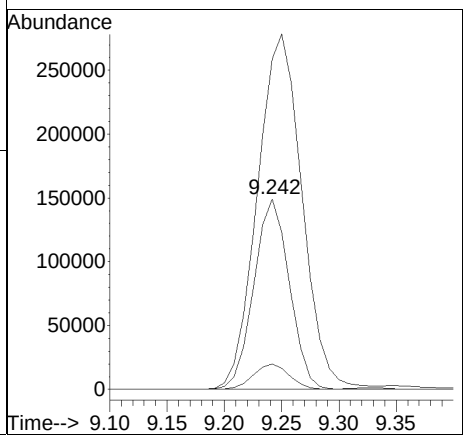


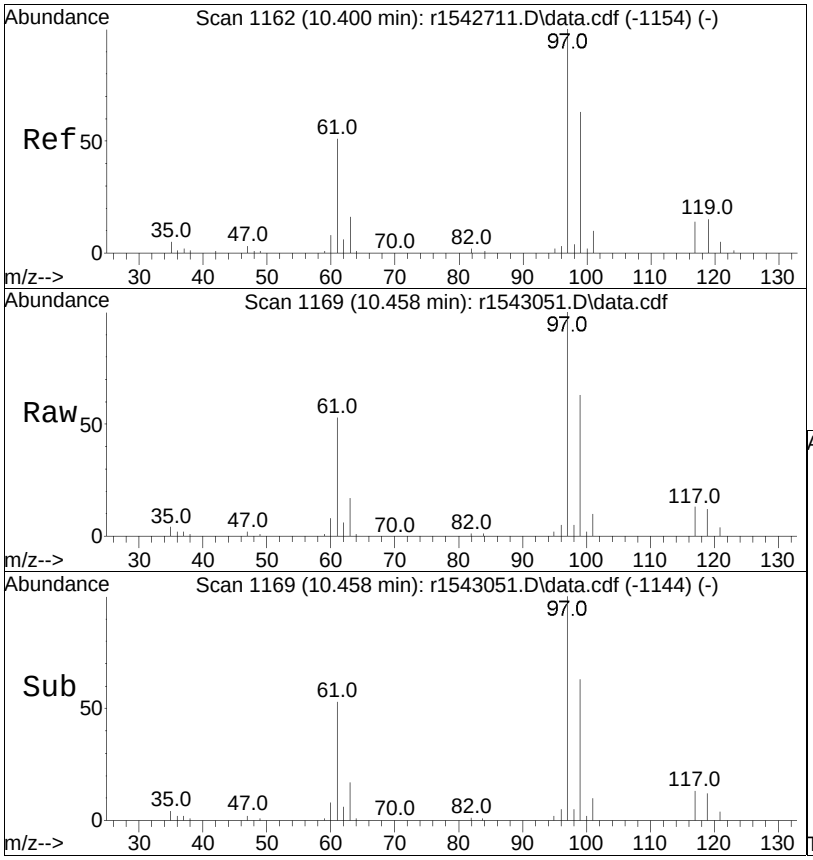


#44
hexane
Concen: 10.37 ppbV
RT: 9.242 min Scan# 1023
Delta R.T. 0.000 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 57 Resp: 321662

Ion	Ratio	Lower	Upper
57	100		
43	173.5	146.8	220.2
86	13.3	12.7	19.1

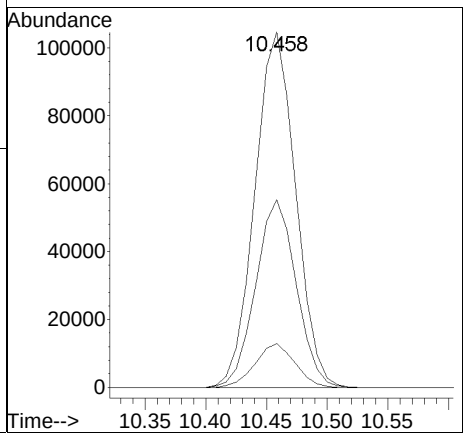


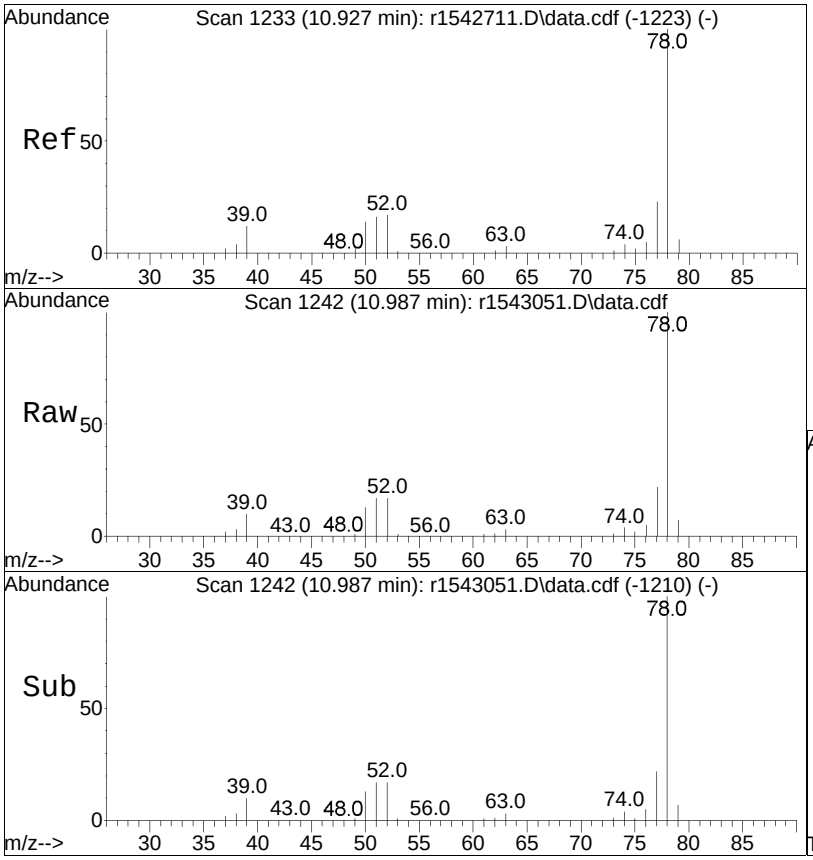


#48
1,1,1-trichloroethane
Concen: 10.65 ppbV
RT: 10.458 min Scan# 1169
Delta R.T. 0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 97 Resp: 244209

Ion	Ratio	Lower	Upper
97	100		
61	52.8	40.7	61.1
119	12.3	11.8	17.8

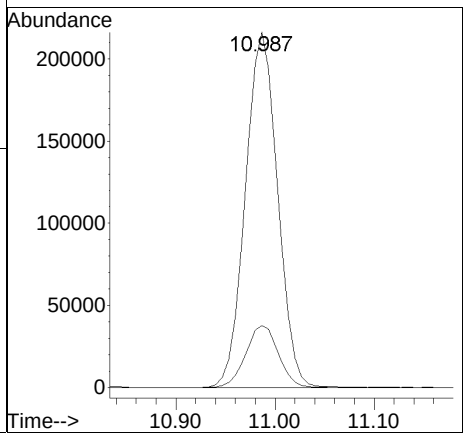


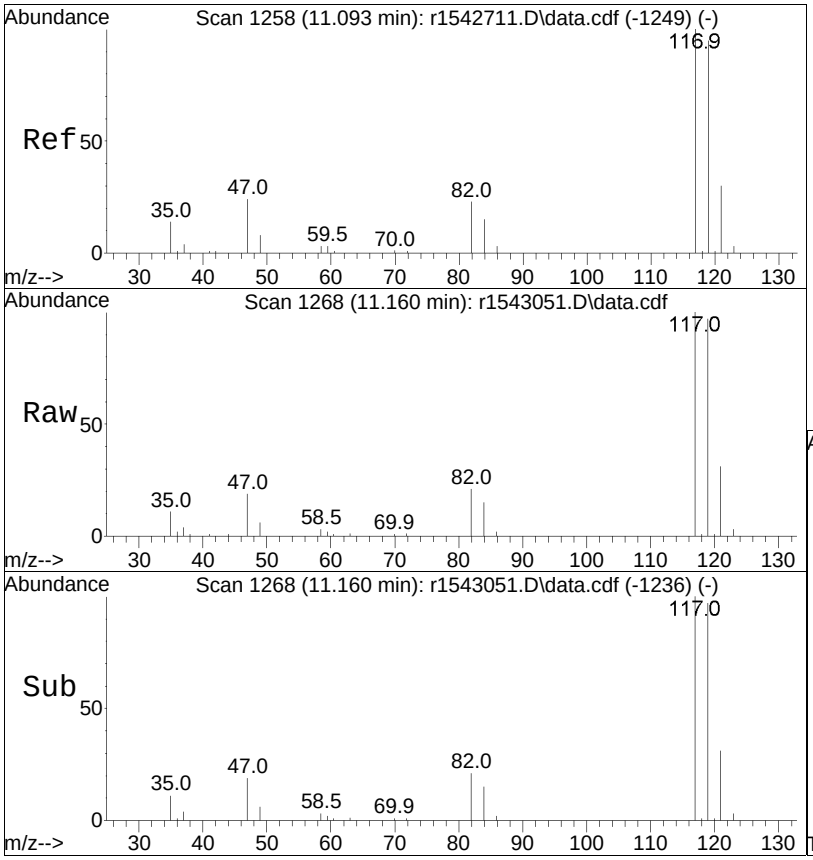


#50
benzene
Concen: 8.50 ppbV
RT: 10.987 min Scan# 1242
Delta R.T. 0.013 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 78 Resp: 488044

Ion	Ratio	Lower	Upper
78	100		
52	17.4	14.1	21.1

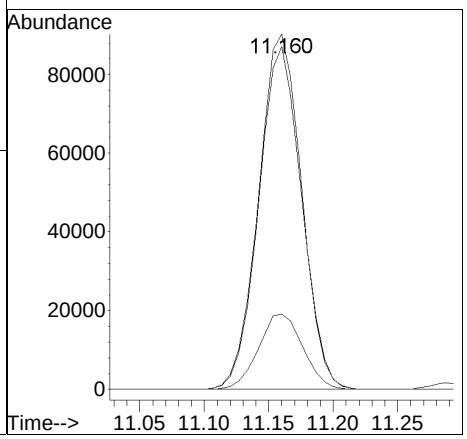


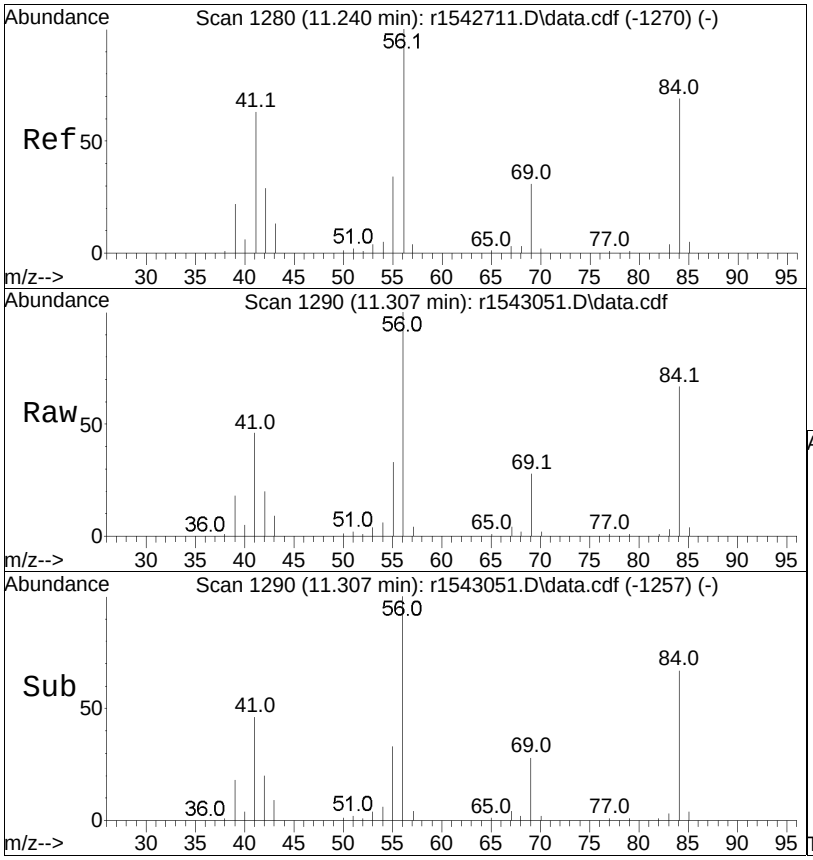


#52
carbon tetrachloride
Concen: 9.83 ppbV
RT: 11.160 min Scan# 1268
Delta R.T. 0.013 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:117 Resp: 210056

Ion	Ratio	Lower	Upper
117	100		
119	96.5	77.1	115.7
82	21.1	17.2	25.8

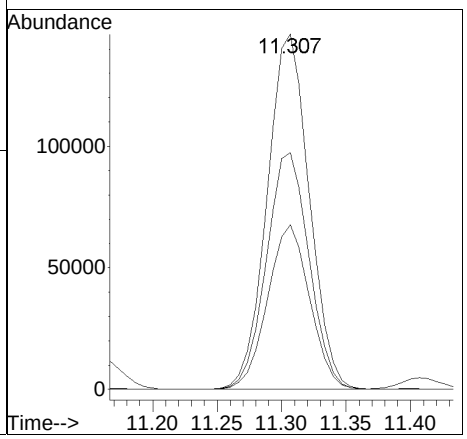


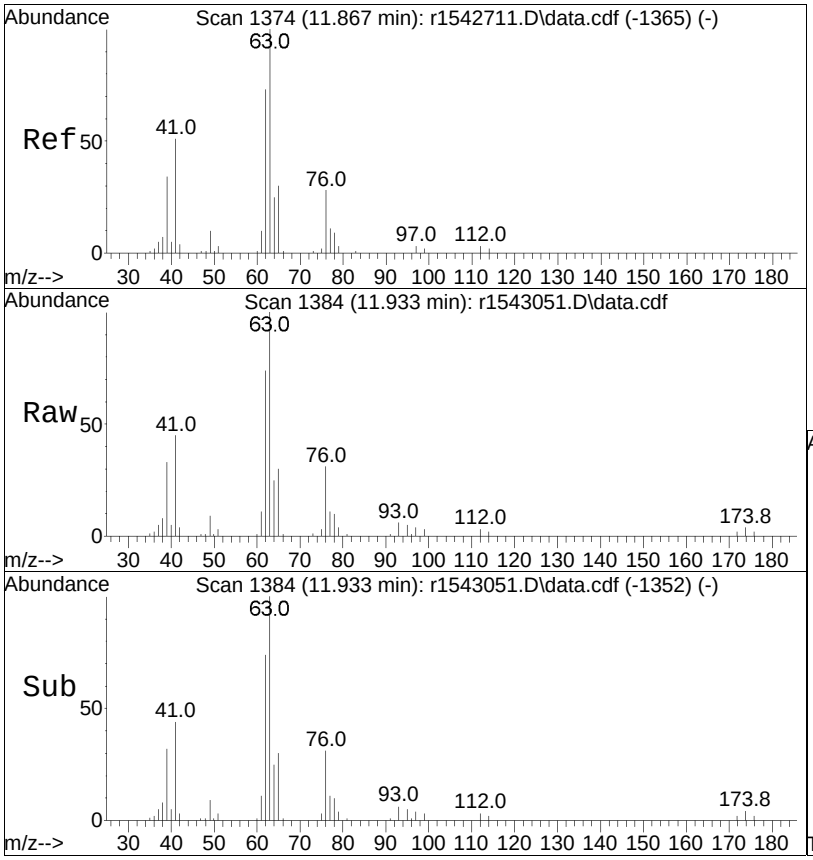


#53
cyclohexane
Concen: 9.83 ppbV
RT: 11.307 min Scan# 1290
Delta R.T. 0.020 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 56 Resp: 332454

Ion	Ratio	Lower	Upper
56	100		
84	66.6	60.2	90.2
41	46.3	33.5	50.3

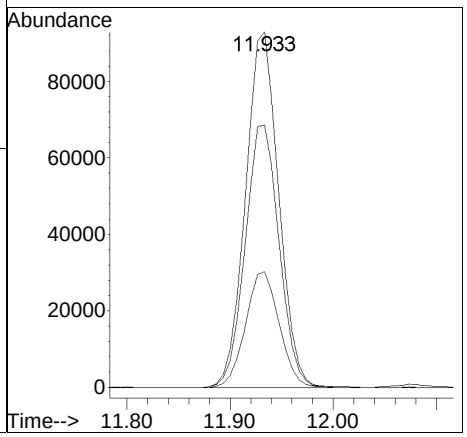


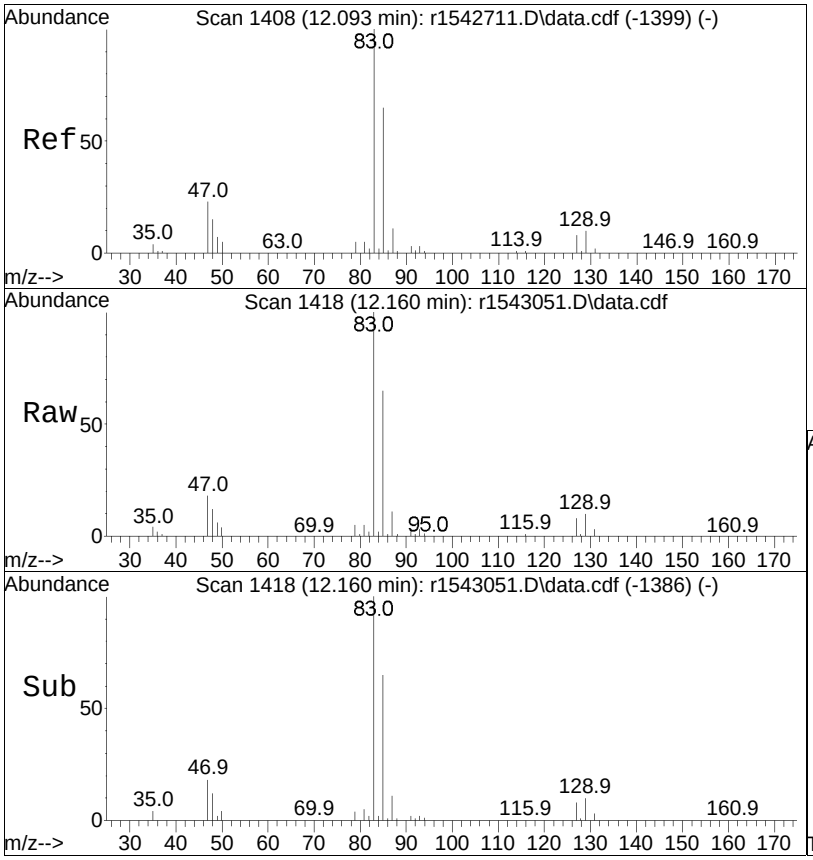


#56
1,2-dichloropropane
Concen: 9.96 ppbV
RT: 11.933 min Scan# 1384
Delta R.T. 0.013 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 63 Resp: 207720

Ion	Ratio	Lower	Upper
63	100		
62	73.9	60.1	90.1
39	32.6	23.5	35.3

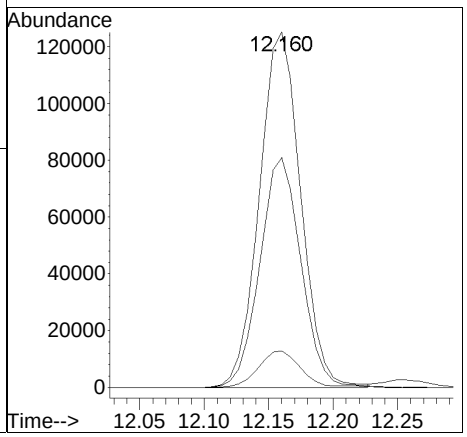


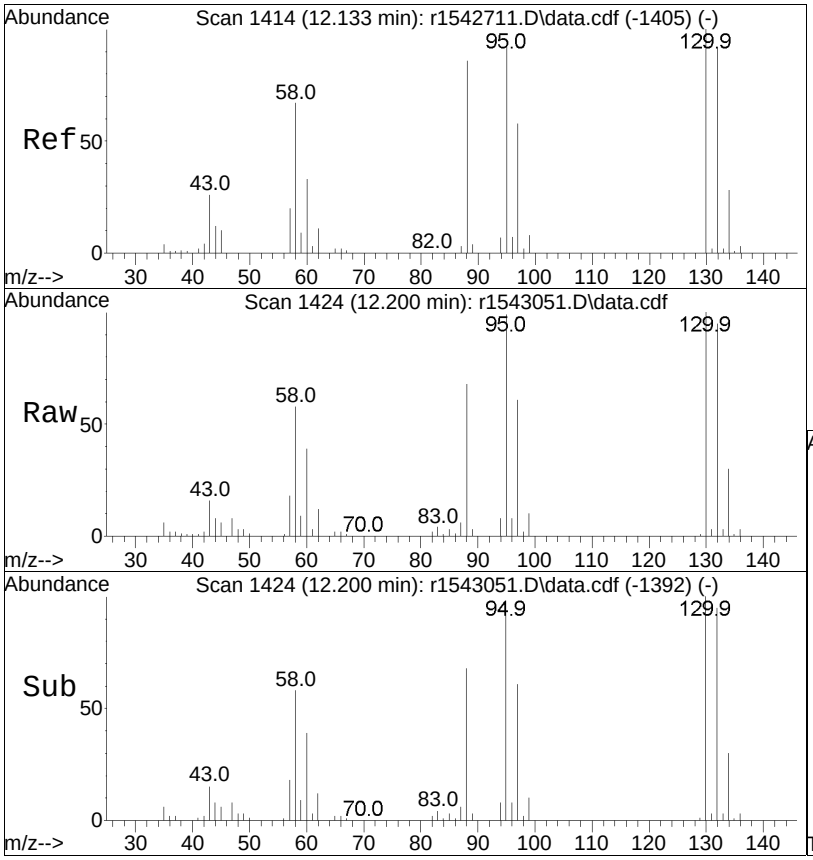


#57
bromodichloromethane
Concen: 9.73 ppbV
RT: 12.160 min Scan# 1418
Delta R.T. 0.013 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 83 Resp: 278696

Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.7	76.1
129	10.3	7.5	11.3

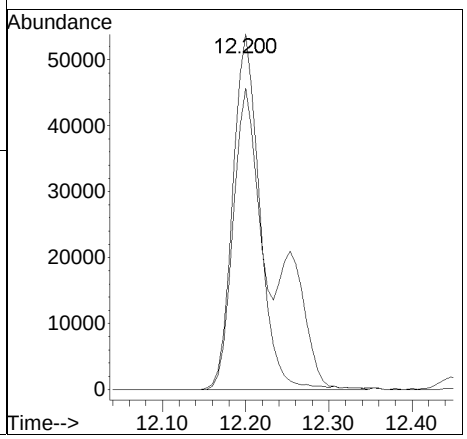


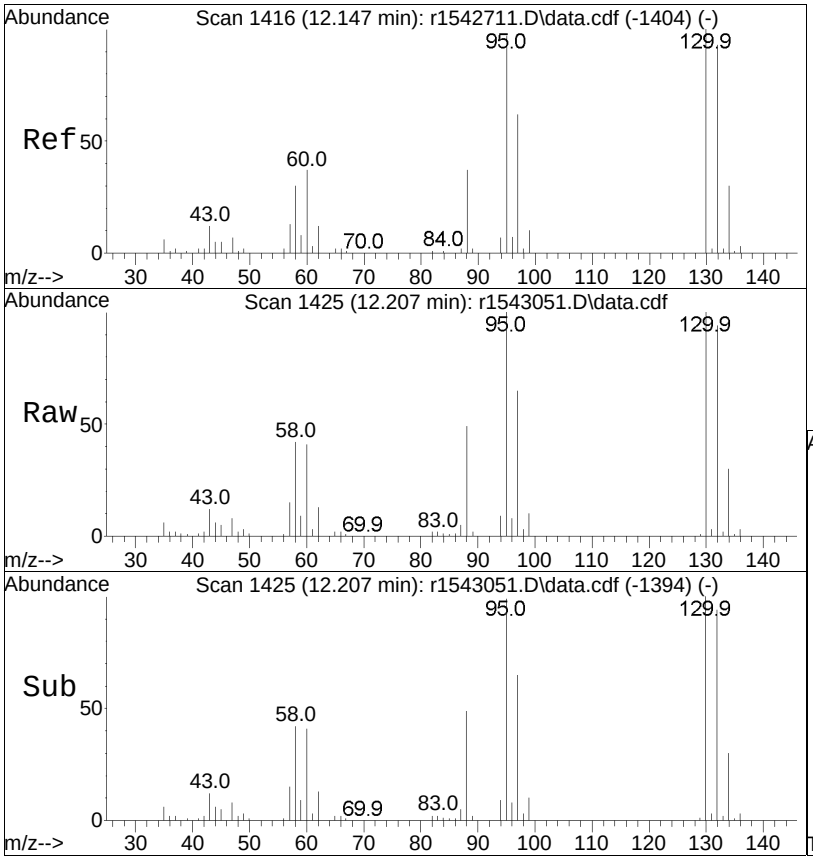


#58
1,4-dioxane
Concen: 9.18 ppbV
RT: 12.200 min Scan# 1424
Delta R.T. 0.013 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 88 Resp: 121451

Ion	Ratio	Lower	Upper
88	100		
58	84.8	58.8	88.2

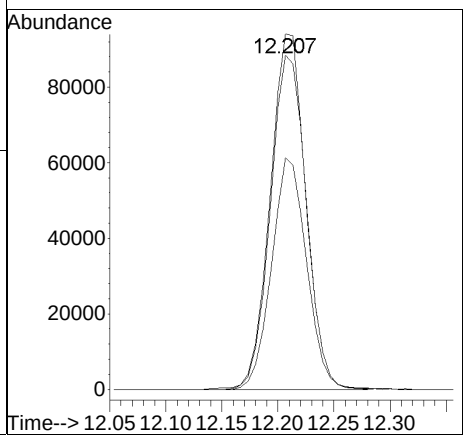


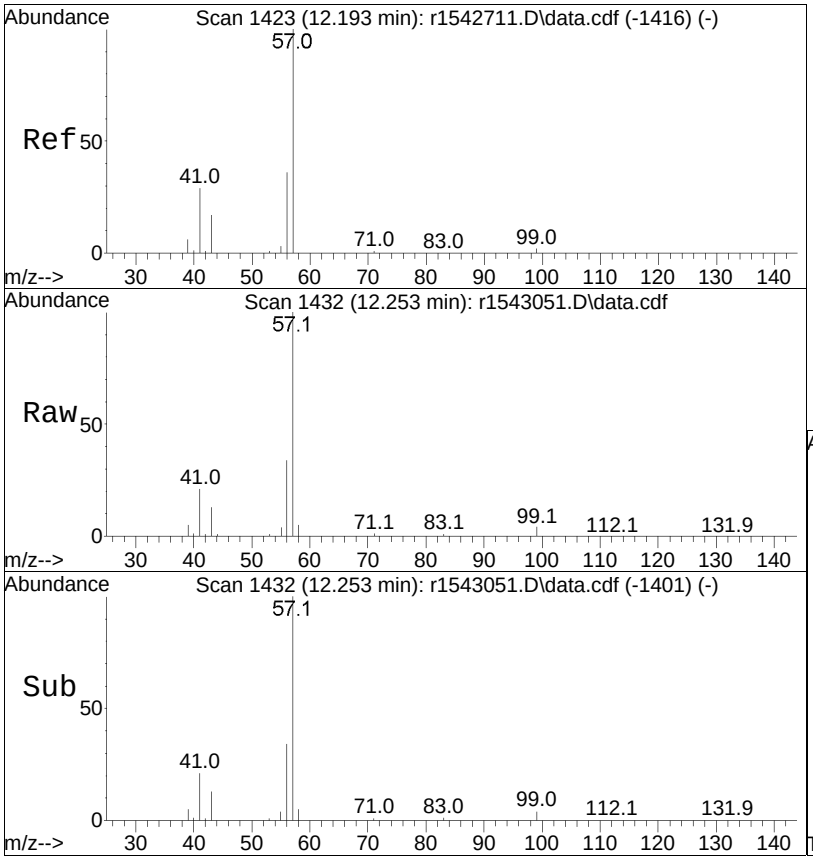


#59
trichloroethene
Concen: 9.16 ppbV
RT: 12.207 min Scan# 1425
Delta R.T. 0.007 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:130 Resp: 207417

Ion	Ratio	Lower	Upper
130	100		
132	94.1	74.7	112.1
97	65.1	46.6	70.0

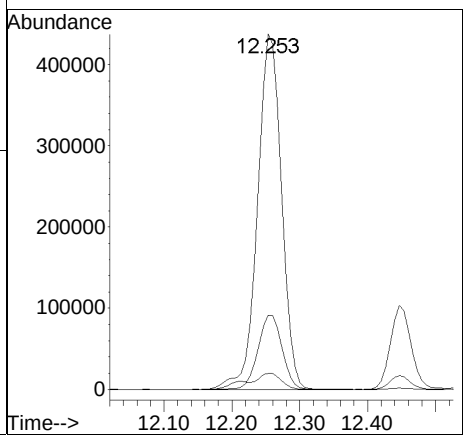


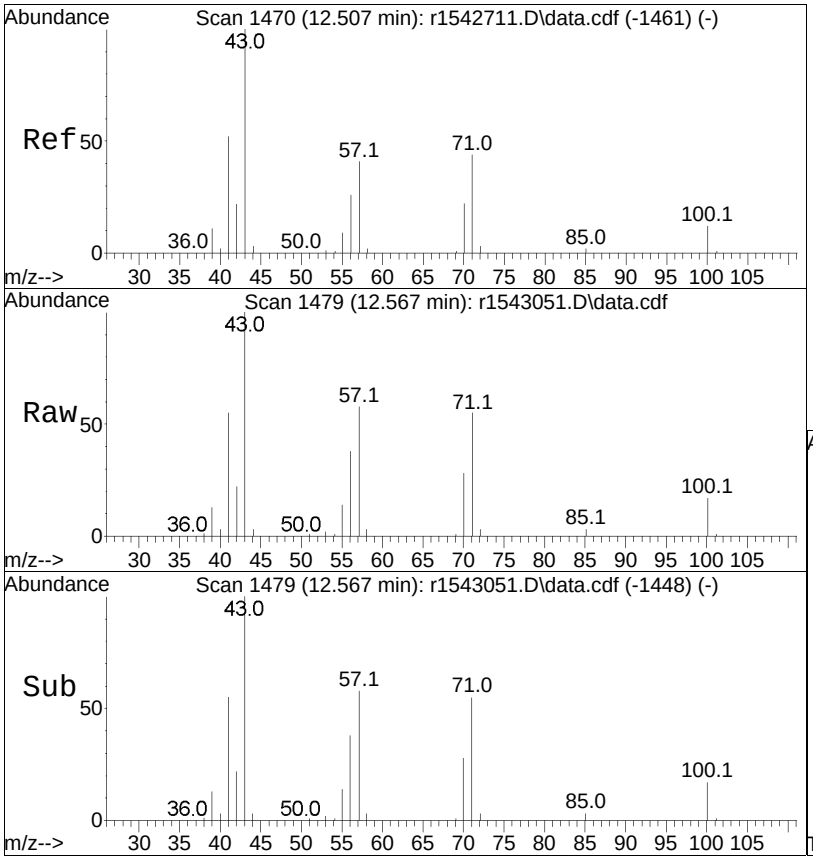


#60
2,2,4-trimethylpentane
Concen: 10.43 ppbV
RT: 12.253 min Scan# 1432
Delta R.T. 0.007 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 57 Resp: 1077583

Ion	Ratio	Lower	Upper
57	100		
99	4.5	3.4	5.2
41	21.0	15.9	23.9

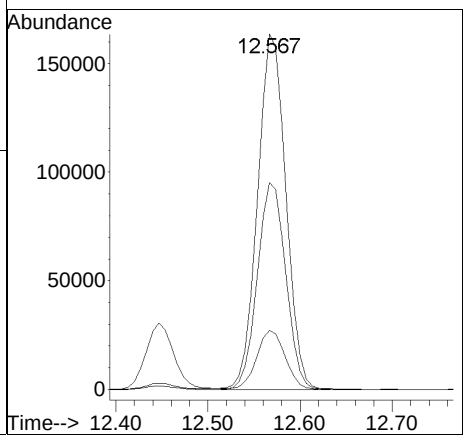


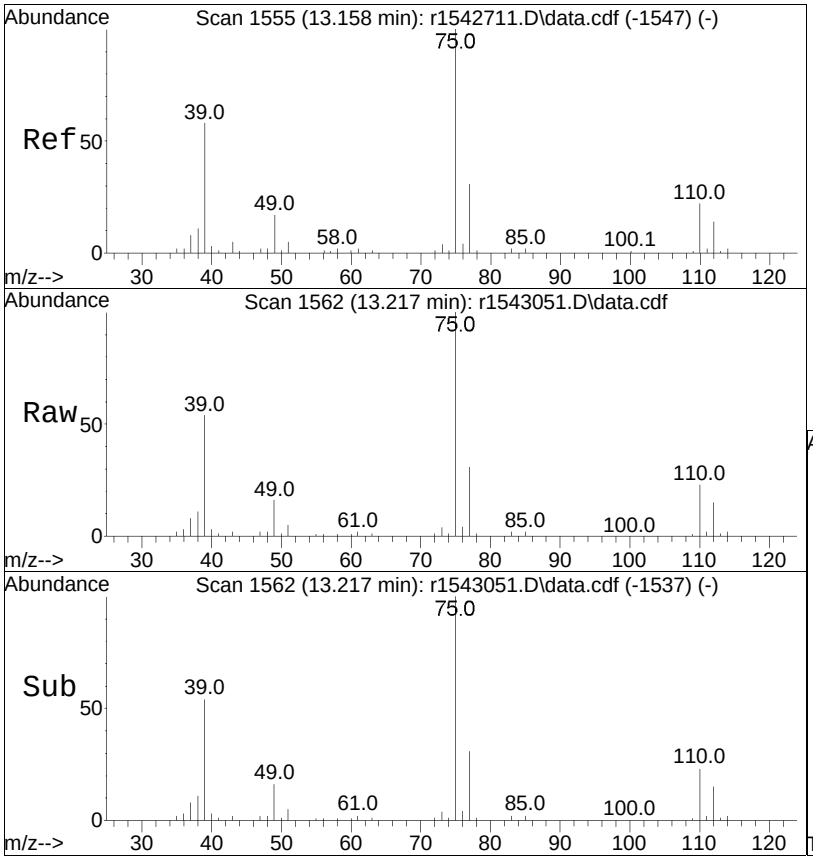


#62
heptane
Concen: 10.25 ppbV
RT: 12.567 min Scan# 1479
Delta R.T. 0.007 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 43 Resp: 349520

Ion	Ratio	Lower	Upper
43	100		
57	58.2	46.6	70.0
100	16.6	13.3	19.9

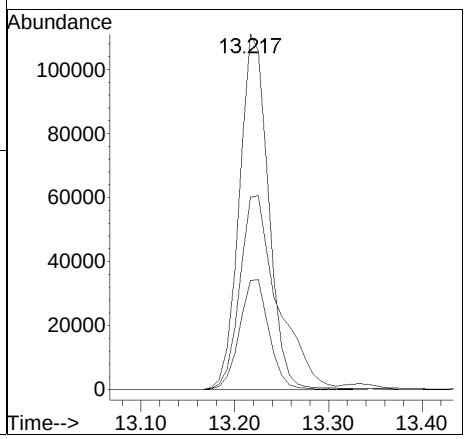


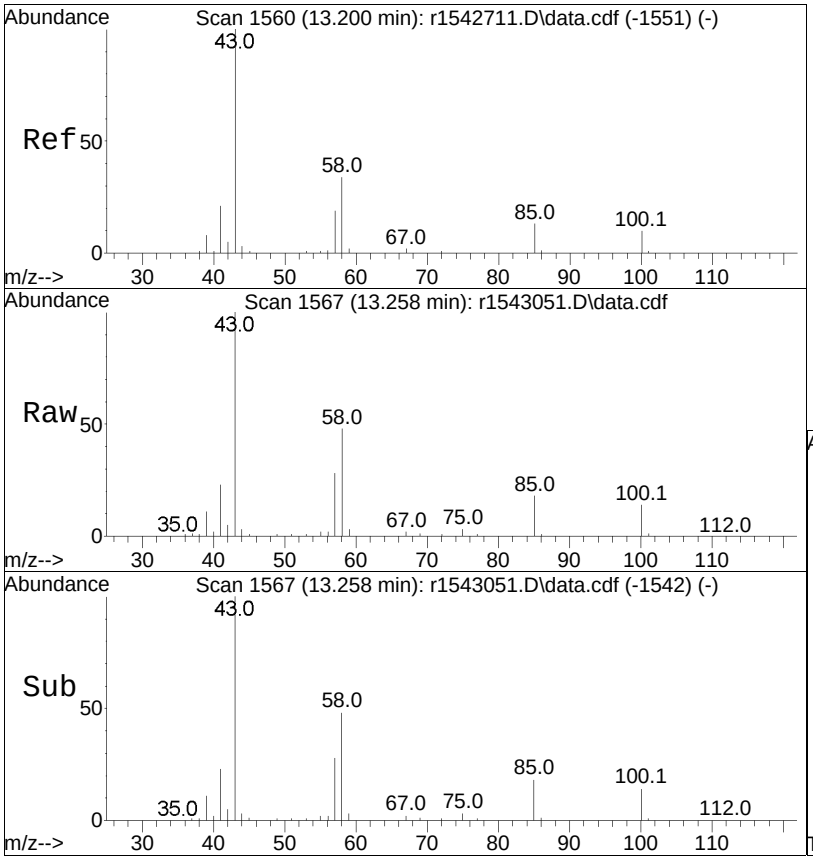


#63
cis-1,3-dichloropropene
Concen: 8.94 ppbV
RT: 13.217 min Scan# 1562
Delta R.T. 0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 75 Resp: 239216

Ion	Ratio	Lower	Upper
75	100		
39	54.1	36.6	55.0
77	30.6	25.9	38.9

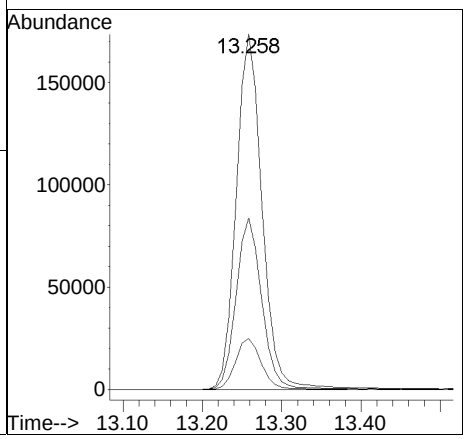


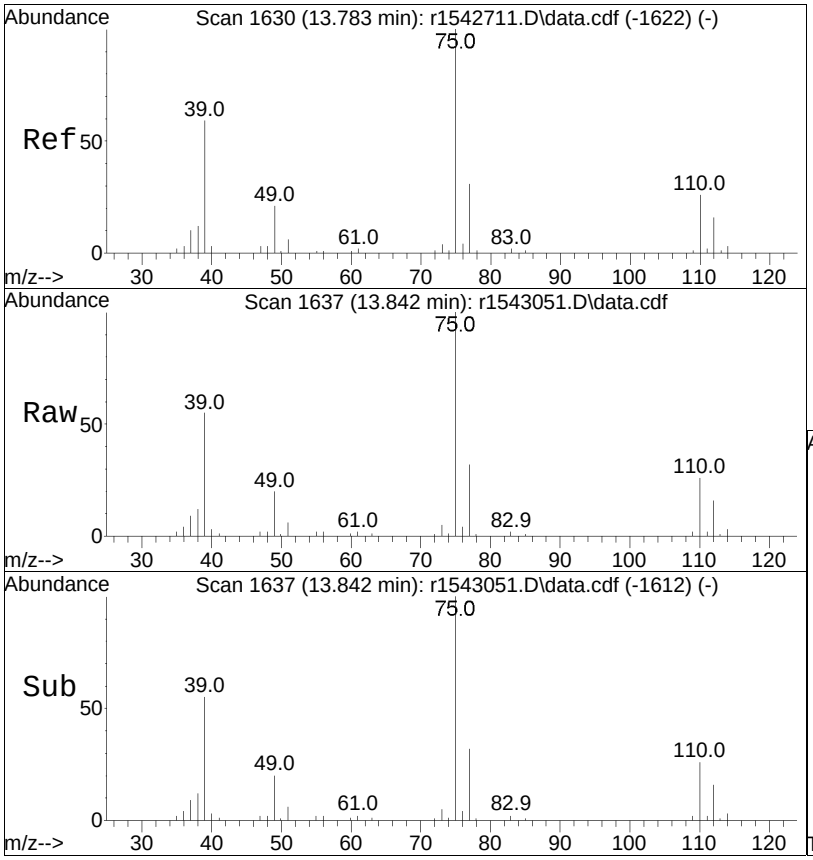


#64
4-methyl-2-pentanone
Concen: 10.17 ppbV
RT: 13.258 min Scan# 1567
Delta R.T. 0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 43 Resp: 393354

Ion	Ratio	Lower	Upper
43	100		
58	48.2	39.5	59.3
100	14.4	11.8	17.6

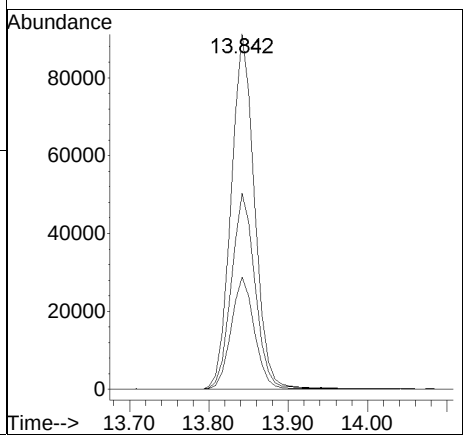


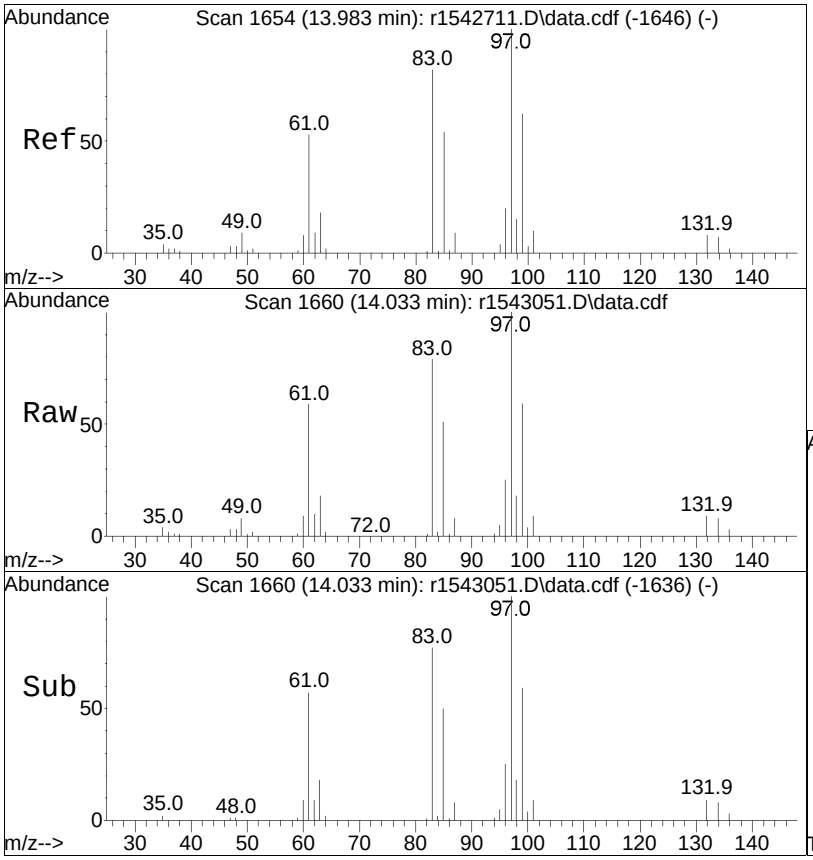


#65
trans-1,3-dichloropropene
Concen: 8.83 ppbV
RT: 13.842 min Scan# 1637
Delta R.T. 0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 75 Resp: 188280

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.4	38.2
39	55.2	37.7	56.5

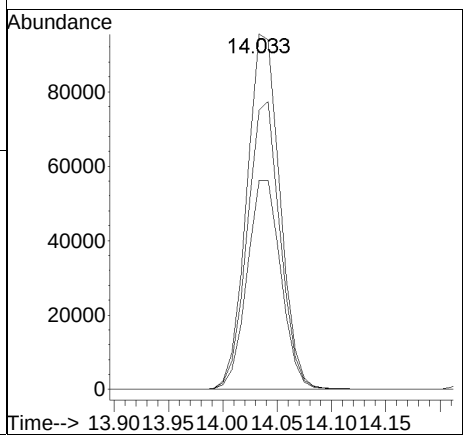


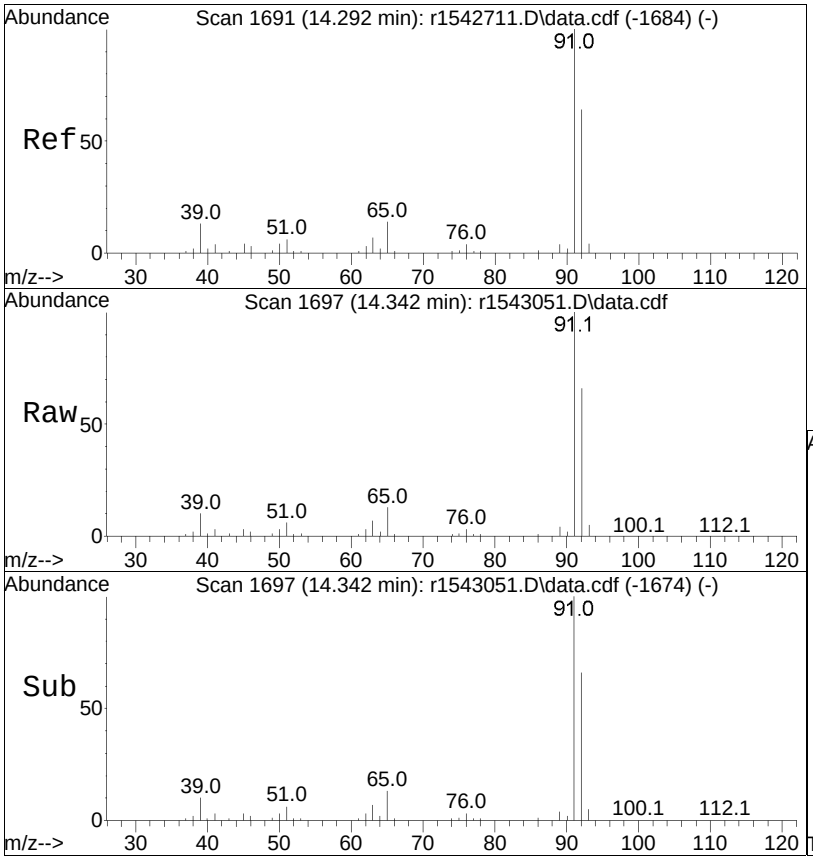


#66
1,1,2-trichloroethane
Concen: 9.85 ppbV
RT: 14.033 min Scan# 1660
Delta R.T. 0.000 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 97 Resp: 203895

Ion	Ratio	Lower	Upper
97	100		
83	78.6	77.4	116.2
61	58.8	43.7	65.5

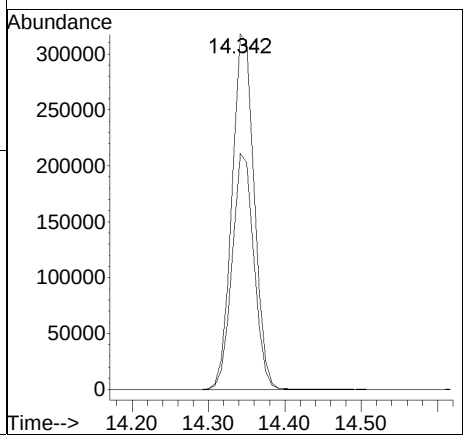


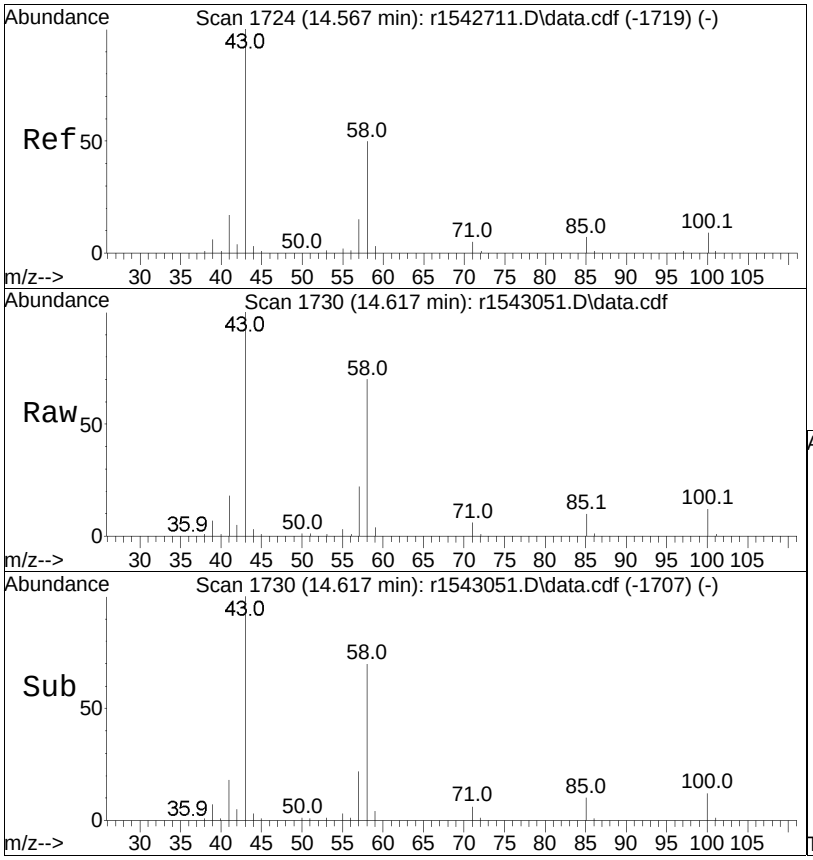


#68
toluene
Concen: 9.02 ppbV
RT: 14.342 min Scan# 1697
Delta R.T. -0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 91 Resp: 641994

Ion	Ratio	Lower	Upper
91	100		
92	66.4	51.0	76.4

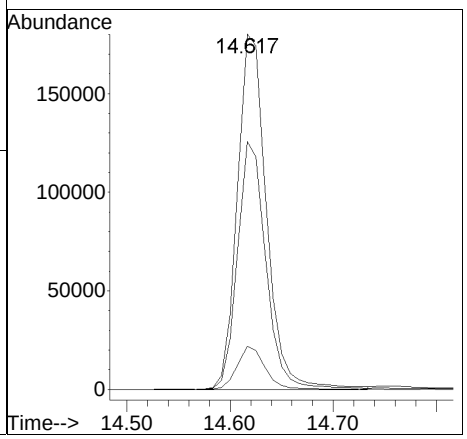


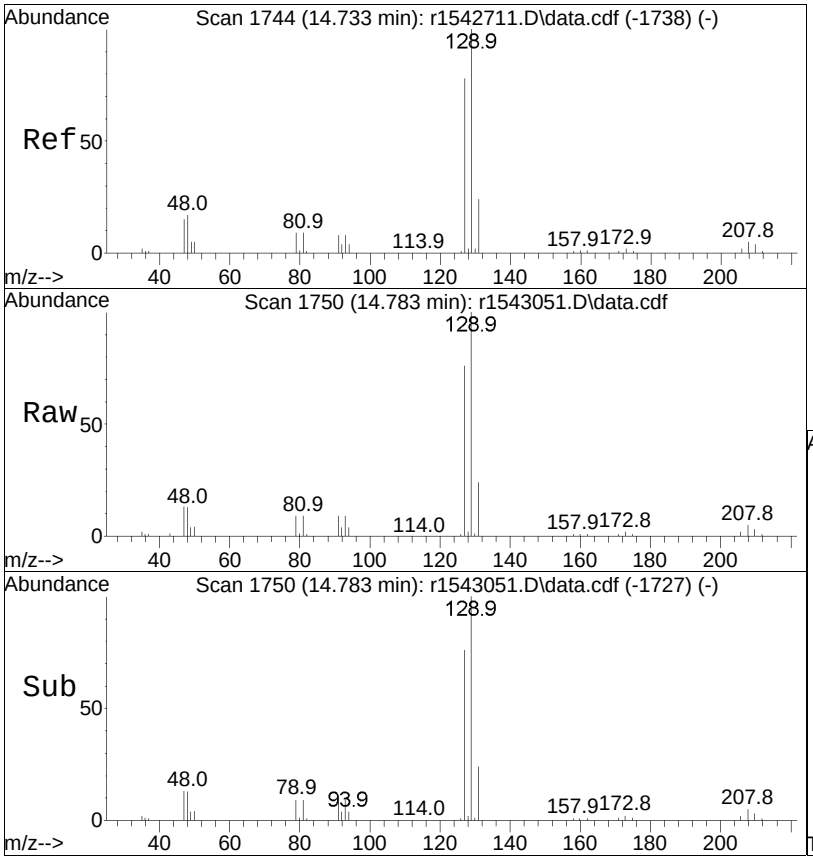


#72
2-hexanone
Concen: 9.40 ppbV
RT: 14.617 min Scan# 1730
Delta R.T. -0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 43 Resp: 355782

Ion	Ratio	Lower	Upper
43	100		
58	69.7	56.1	84.1
100	12.2	9.7	14.5

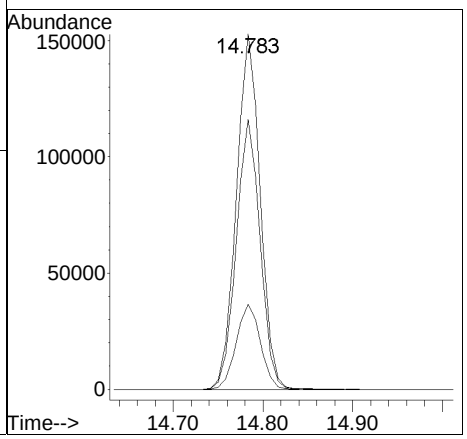


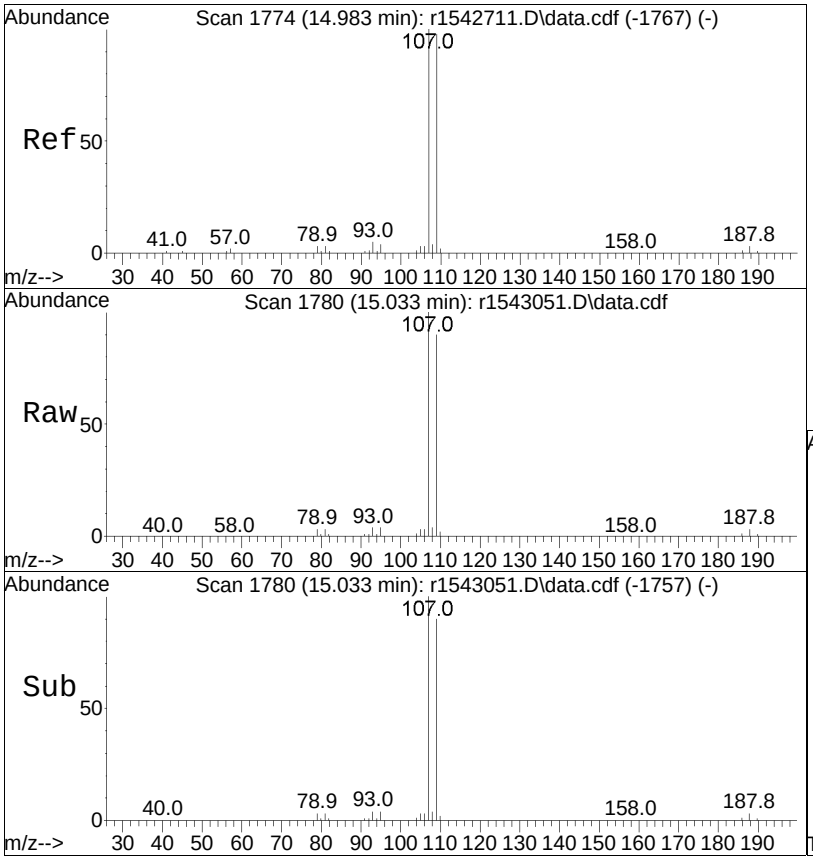


#74
dibromochloromethane
Concen: 10.20 ppbV
RT: 14.783 min Scan# 1750
Delta R.T. -0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:129 Resp: 282220

Ion	Ratio	Lower	Upper
129	100		
127	76.1	61.9	92.9
131	24.0	19.0	28.6

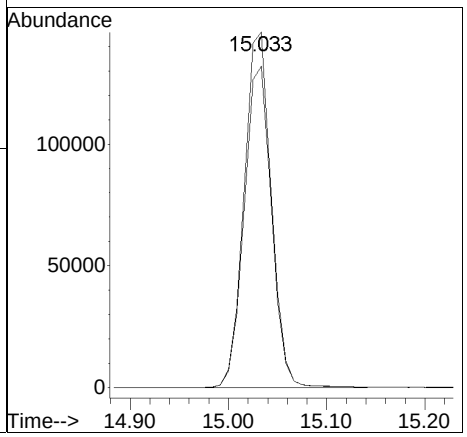


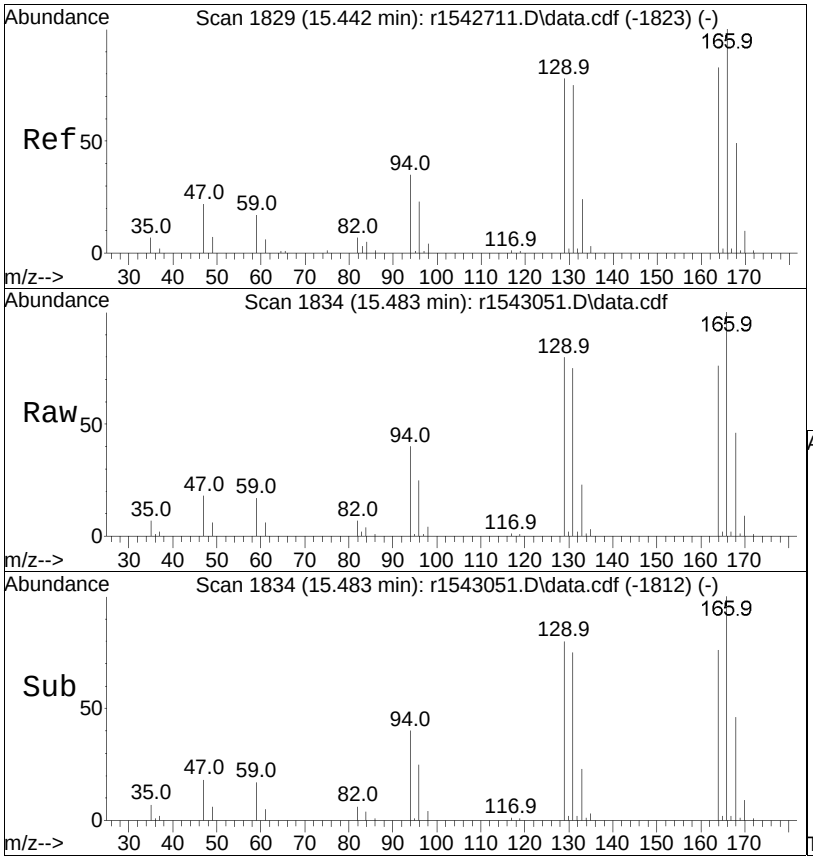


#75
1,2-dibromoethane
Concen: 8.73 ppbV
RT: 15.033 min Scan# 1780
Delta R.T. -0.008 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:107 Resp: 280910

Ion	Ratio	Lower	Upper
107	100		
109	90.4	78.2	117.4

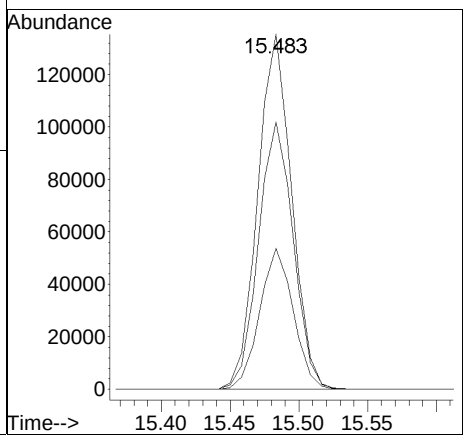


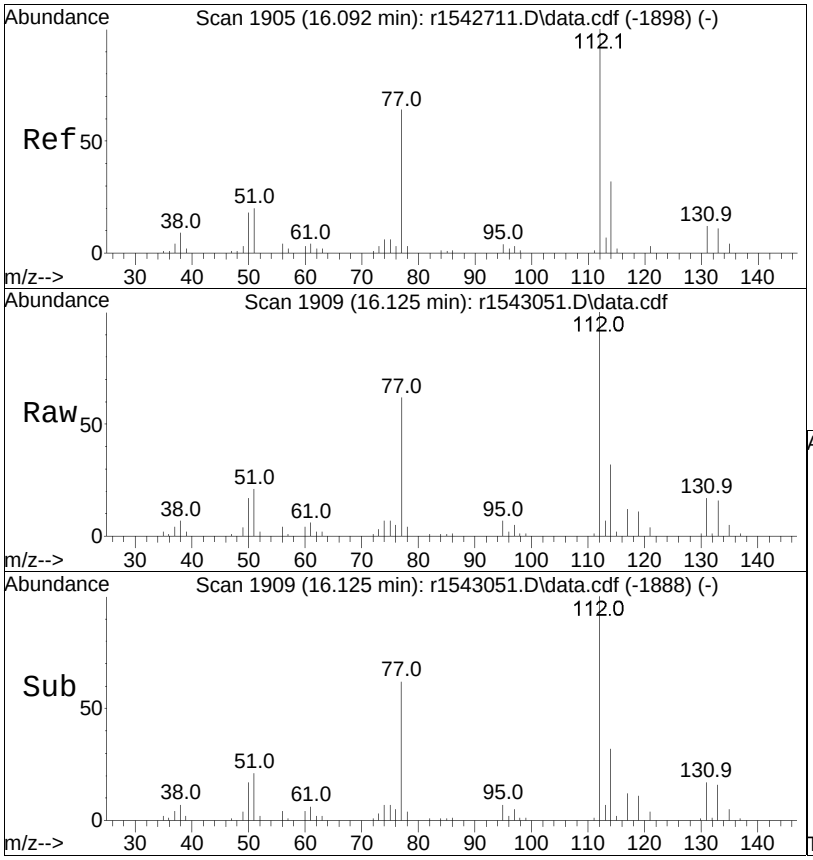


#78
tetrachloroethene
Concen: 8.14 ppbV
RT: 15.483 min Scan# 1834
Delta R.T. -0.017 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:166 Resp: 232441

Ion	Ratio	Lower	Upper
166	100		
131	75.3	55.6	83.4
94	39.7	25.4	38.2#

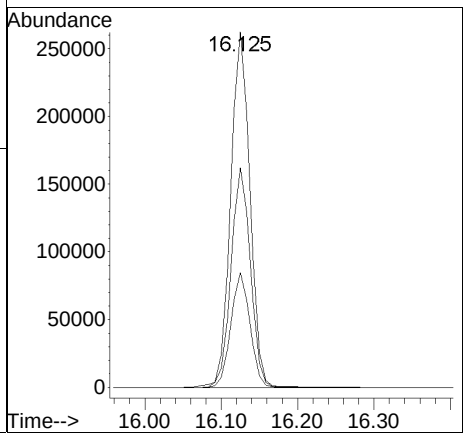


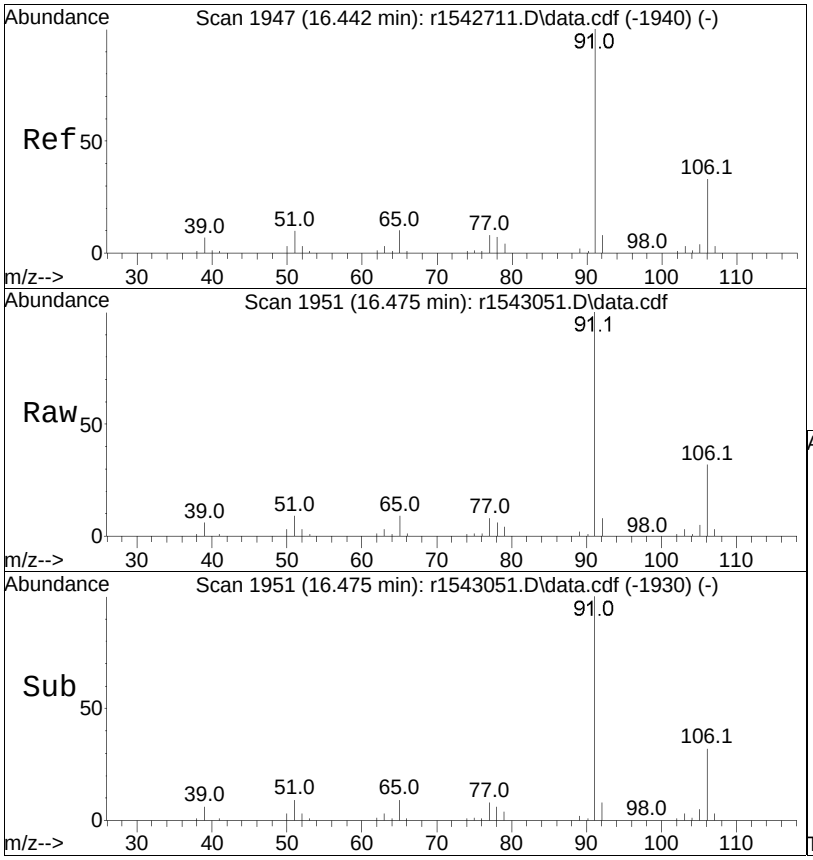


#80
chlorobenzene
Concen: 8.24 ppbV
RT: 16.125 min Scan# 1909
Delta R.T. -0.025 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:112 Resp: 458117

Ion	Ratio	Lower	Upper
112	100		
114	32.4	26.2	39.4
77	61.7	49.0	73.4

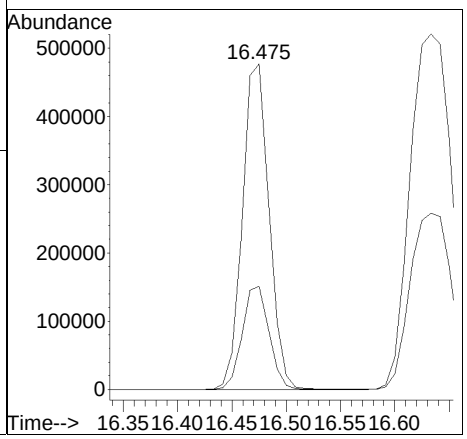


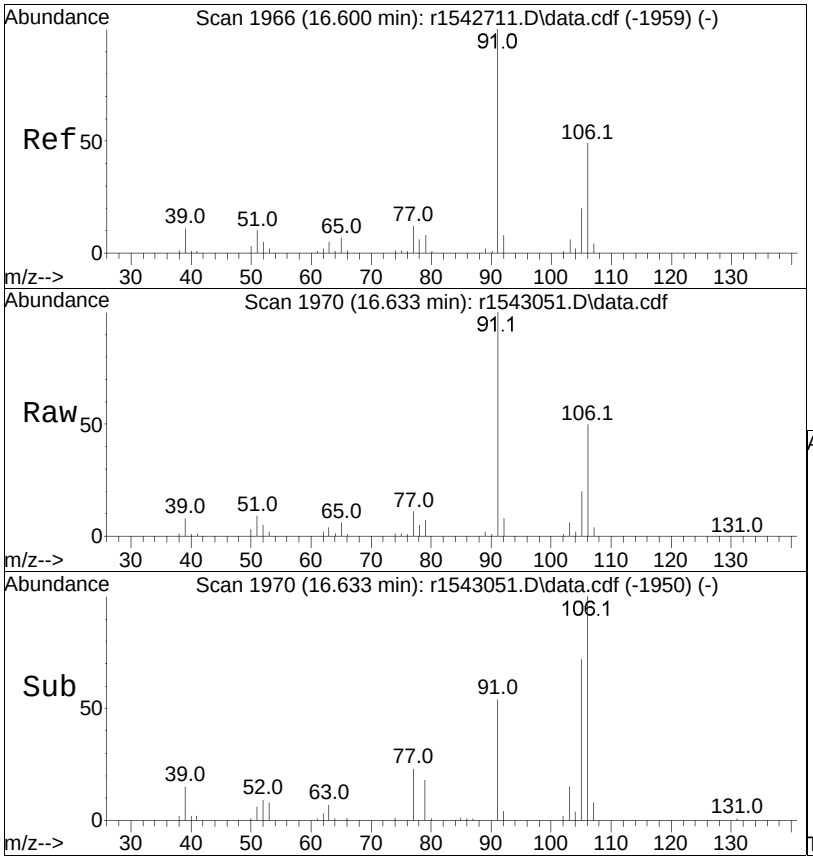


#81
ethylbenzene
Concen: 8.93 ppbV
RT: 16.475 min Scan# 1951
Delta R.T. -0.025 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 91 Resp: 813987

Ion	Ratio	Lower	Upper
91	100		
106	31.7	27.7	41.5

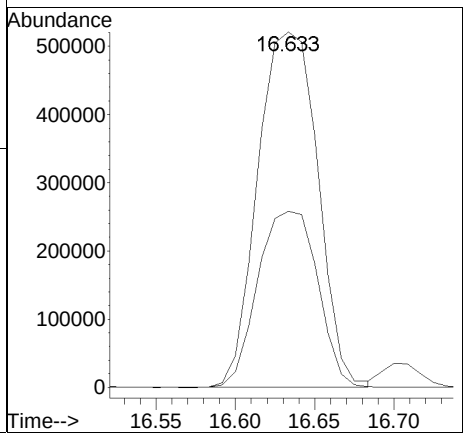


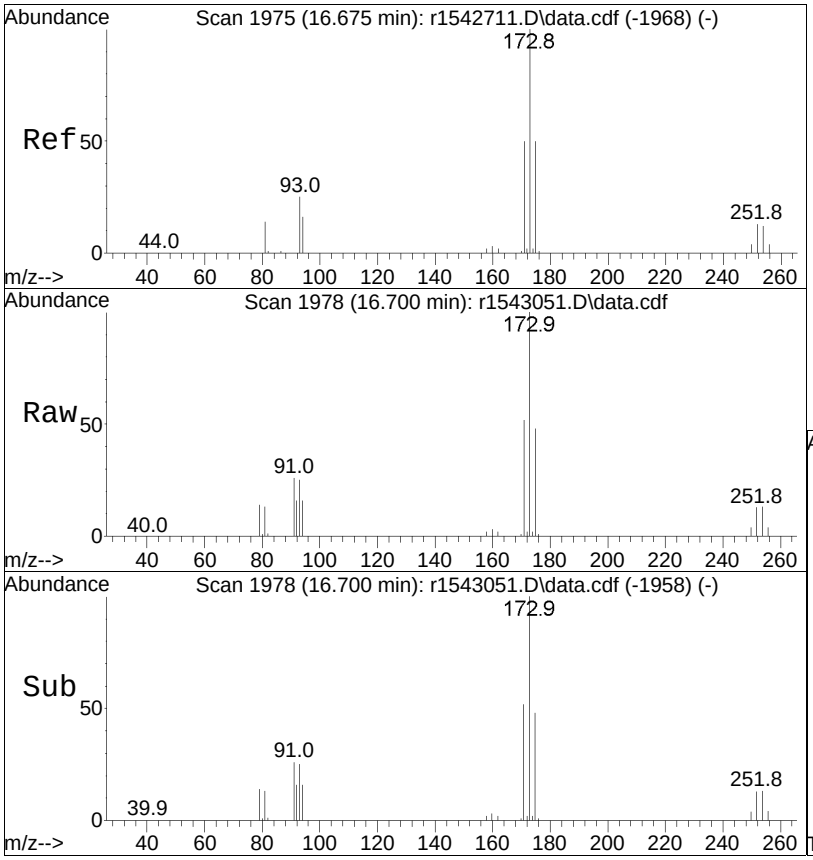


#83
m+p-xylene
Concen: 19.04 ppbV
RT: 16.633 min Scan# 1970
Delta R.T. -0.033 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 91 Resp: 1369012

Ion	Ratio	Lower	Upper
91	100		
106	49.6	42.7	64.1

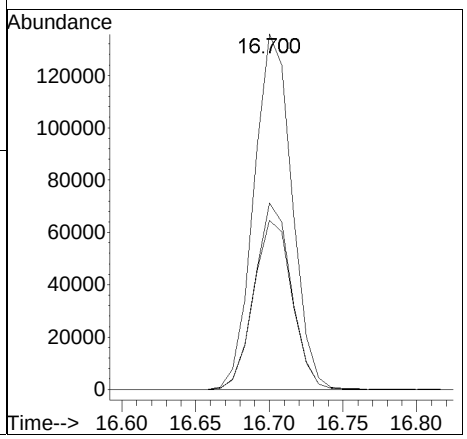


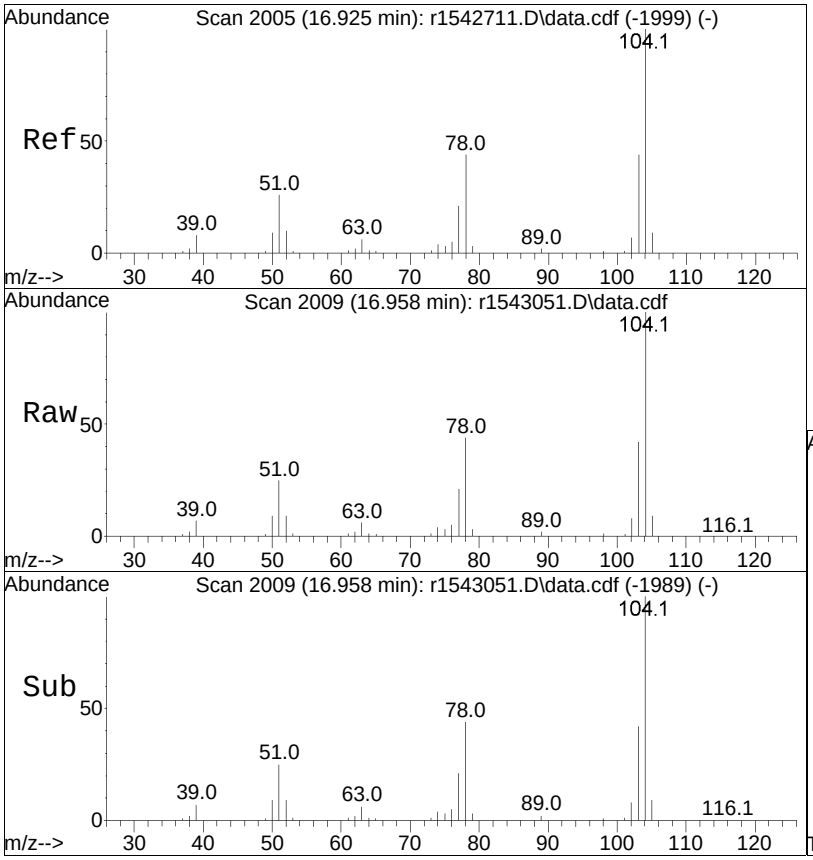


#84
bromoform
Concen: 10.12 ppbV
RT: 16.700 min Scan# 1978
Delta R.T. -0.033 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:173 Resp: 243402

Ion	Ratio	Lower	Upper
173	100		
175	47.6	37.5	56.3
171	52.4	41.6	62.4

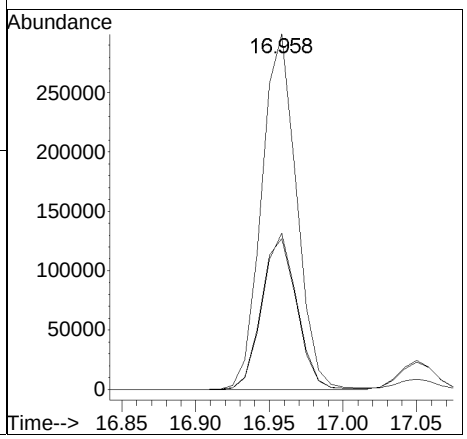


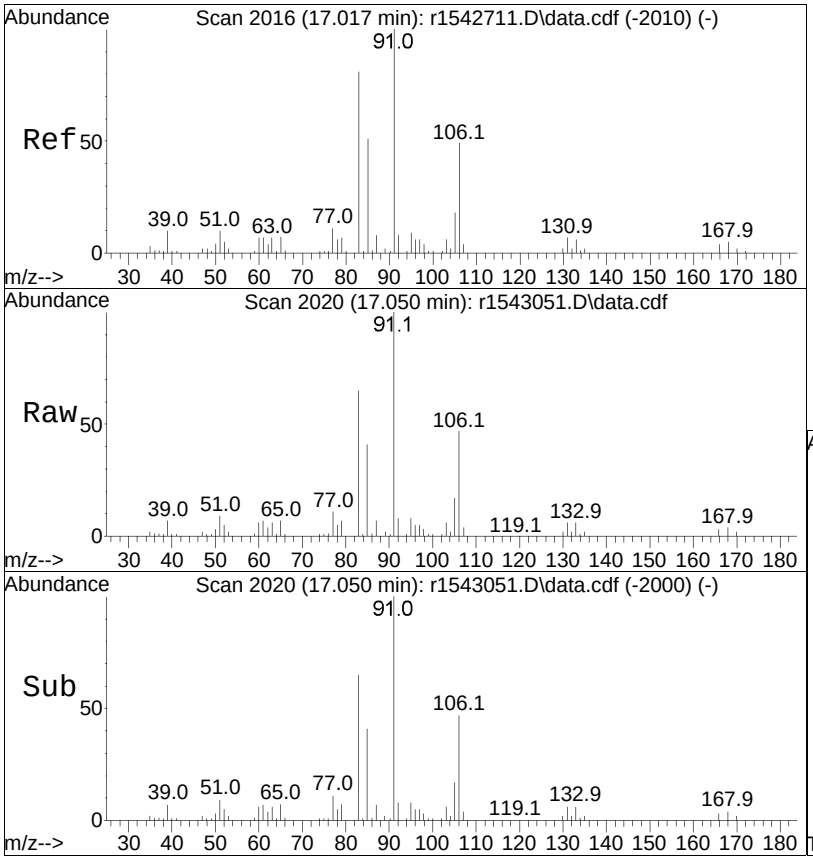


#85
styrene
Concen: 8.47 ppbV
RT: 16.958 min Scan# 2009
Delta R.T. -0.033 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:104 Resp: 493632

Ion	Ratio	Lower	Upper
104	100		
103	42.5	34.9	52.3
78	43.9	36.2	54.4

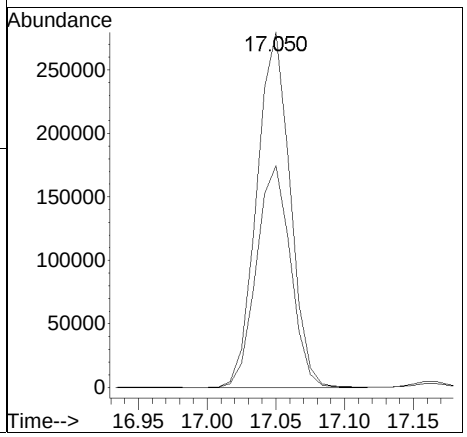


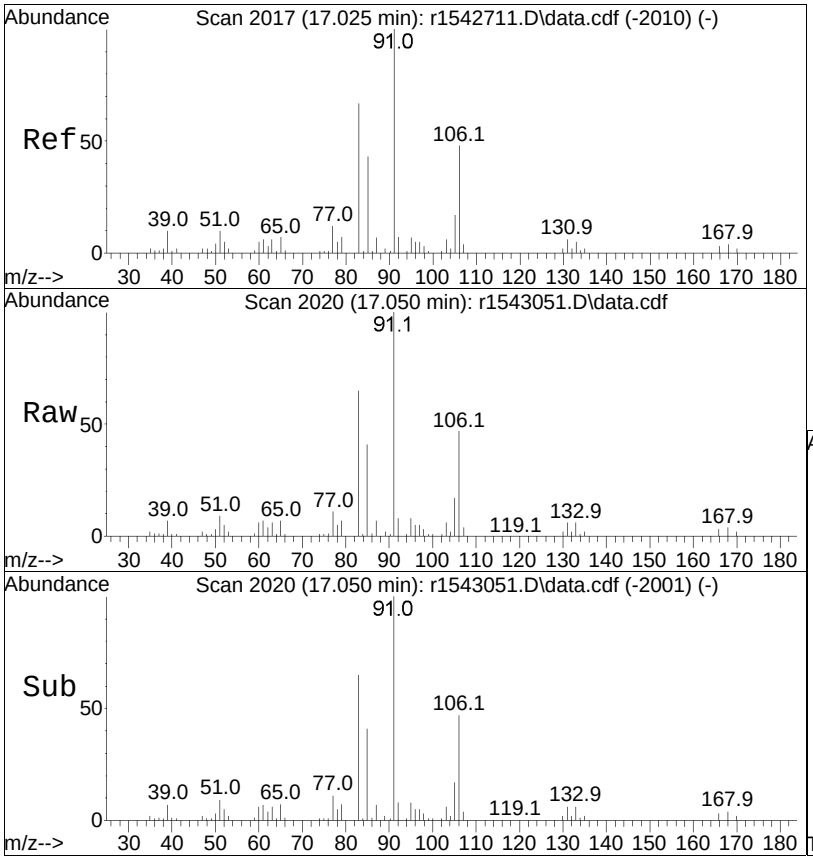


#86
1,1,2,2-tetrachloroethane
Concen: 8.70 ppbV
RT: 17.050 min Scan# 2020
Delta R.T. -0.033 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 83 Resp: 470677

Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.6	77.4

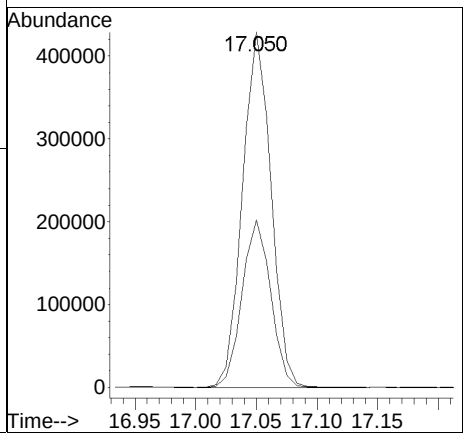


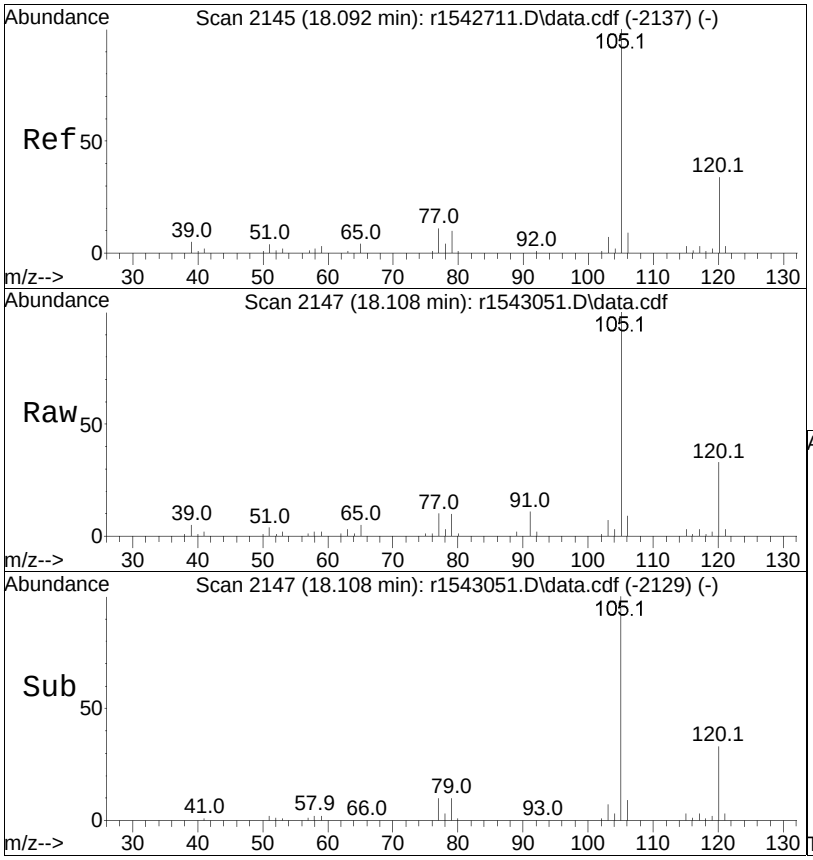


#87
o-xylene
Concen: 9.80 ppbV
RT: 17.050 min Scan# 2020
Delta R.T. -0.042 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 91 Resp: 703017

Ion	Ratio	Lower	Upper
91	100		
106	47.1	40.0	60.0

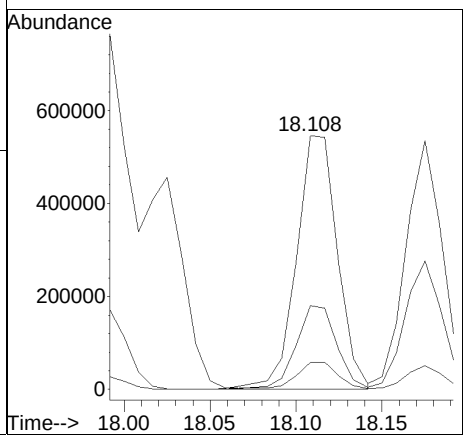


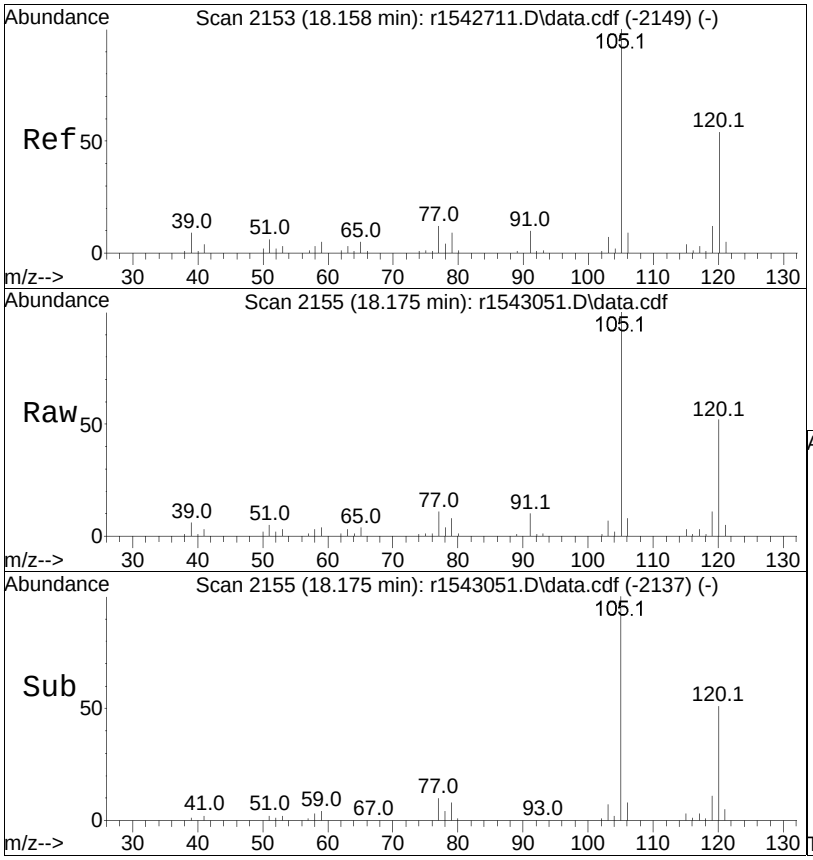


#96
4-ethyl toluene
Concen: 9.42 ppbV
RT: 18.108 min Scan# 2147
Delta R.T. -0.050 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:105 Resp: 906910

Ion	Ratio	Lower	Upper
105	100		
120	33.0	29.2	43.8
91	10.7	7.8	11.6

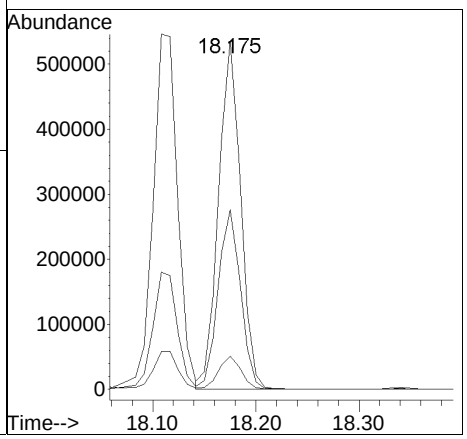


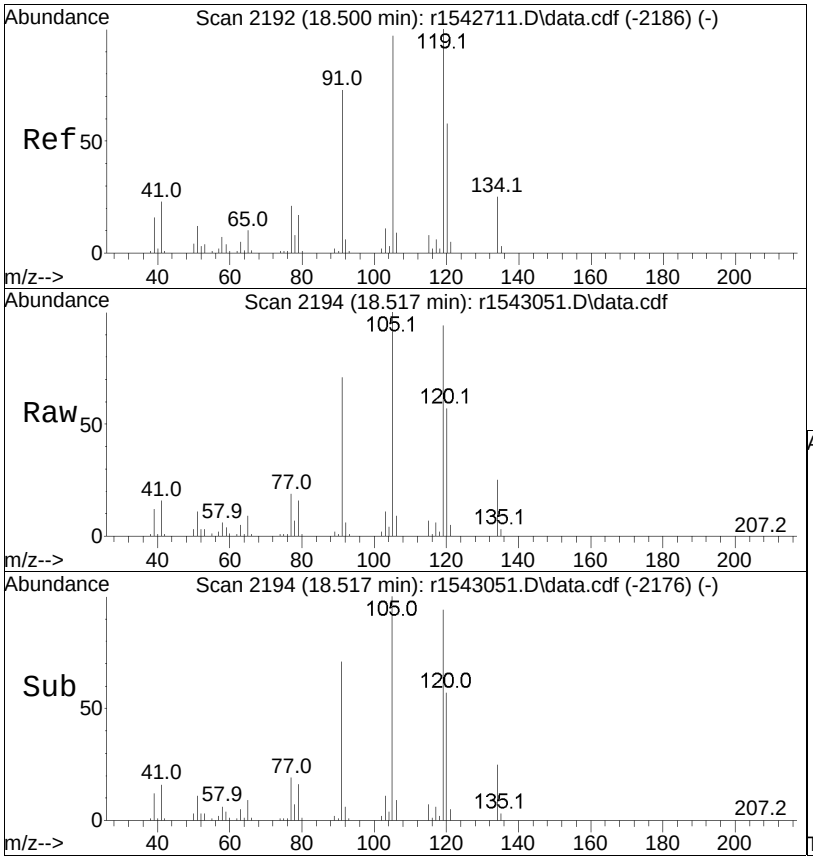


#97
1,3,5-trimethylbenzene
Concen: 9.94 ppbV
RT: 18.175 min Scan# 2155
Delta R.T. -0.050 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:105 Resp: 888592

Ion	Ratio	Lower	Upper
105	100		
120	51.6	46.0	69.0
91	9.6	7.5	11.3

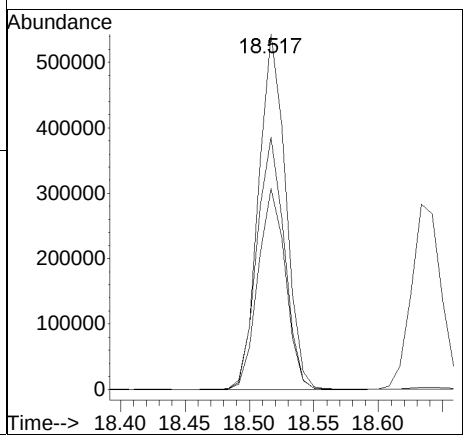


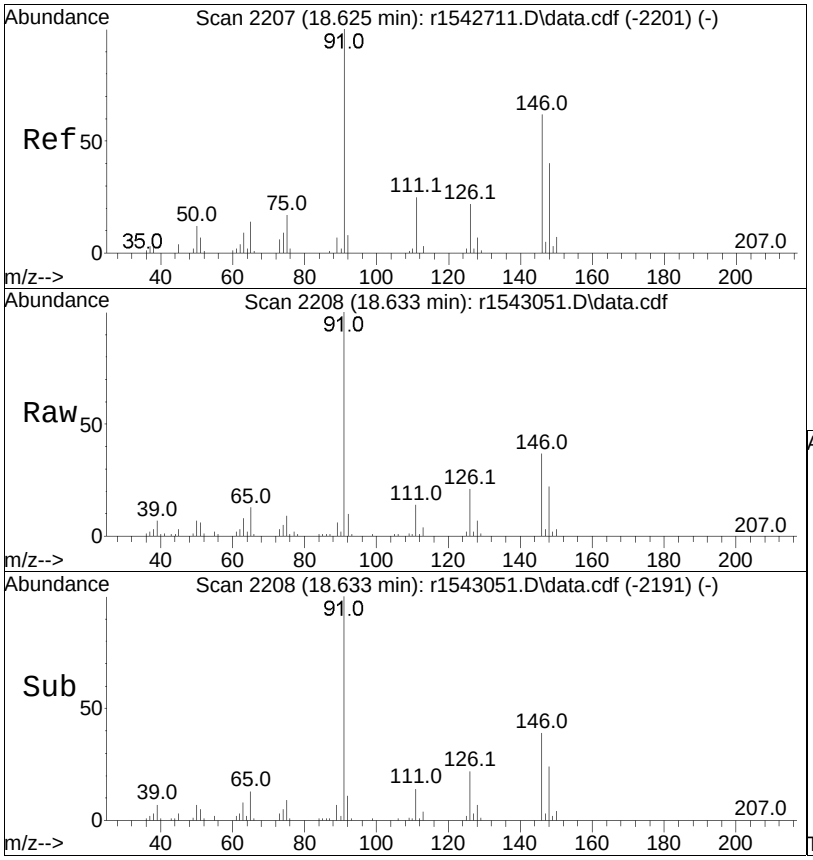


#99
1,2,4-trimethylbenzene
Concen: 9.86 ppbV
RT: 18.517 min Scan# 2194
Delta R.T. -0.050 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:105 Resp: 793259

Ion	Ratio	Lower	Upper
105	100		
120	56.6	51.8	77.6
91	71.0	58.3	87.5

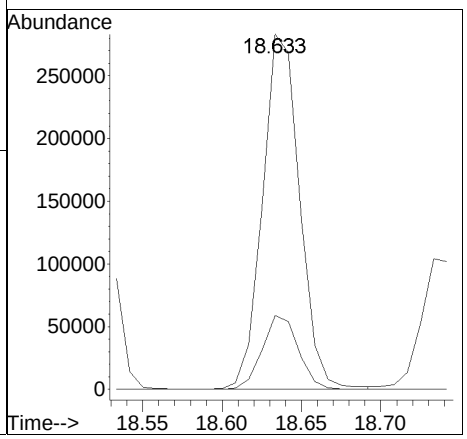


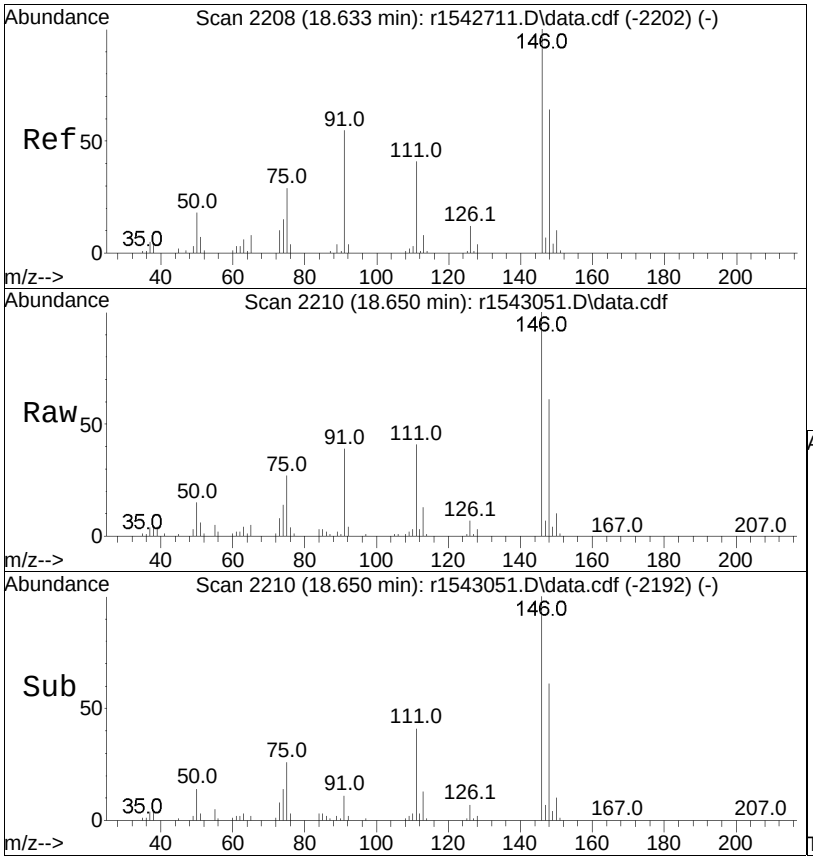


#101
Benzyl Chloride
Concen: 9.47 ppbV
RT: 18.633 min Scan# 2208
Delta R.T. -0.058 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion: 91 Resp: 458652

Ion	Ratio	Lower	Upper
91	100		
126	20.8	18.0	27.0

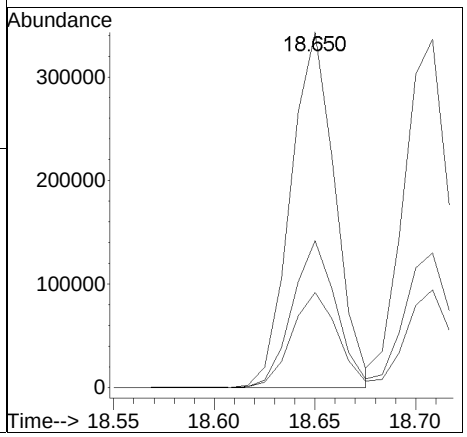


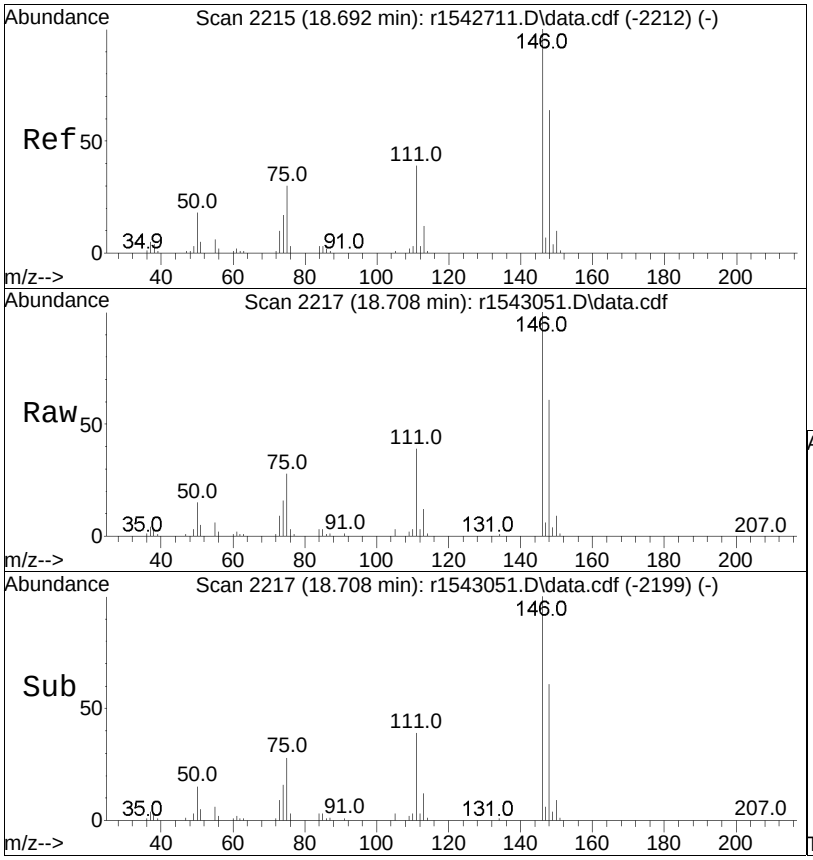


#102
1,3-dichlorobenzene
Concen: 9.20 ppbV m
RT: 18.650 min Scan# 2210
Delta R.T. -0.050 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:146 Resp: 525639

Ion	Ratio	Lower	Upper
146	100		
111	41.3	33.4	50.0
75	26.7	21.6	32.4

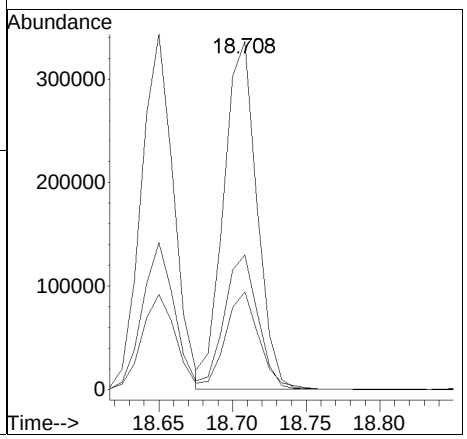


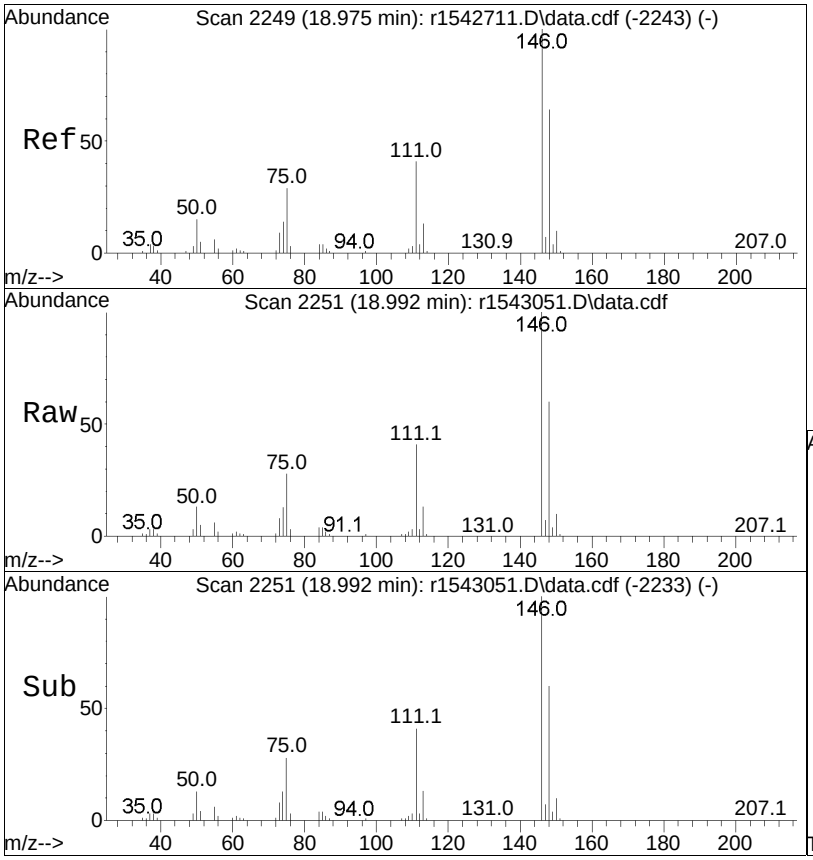


#103
1,4-dichlorobenzene
Concen: 9.37 ppbV
RT: 18.708 min Scan# 2217
Delta R.T. -0.050 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:146 Resp: 528881

Ion	Ratio	Lower	Upper
146	100		
111	38.6	32.2	48.4
75	28.0	21.8	32.6

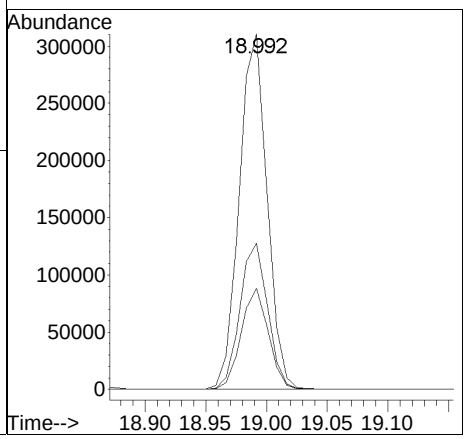


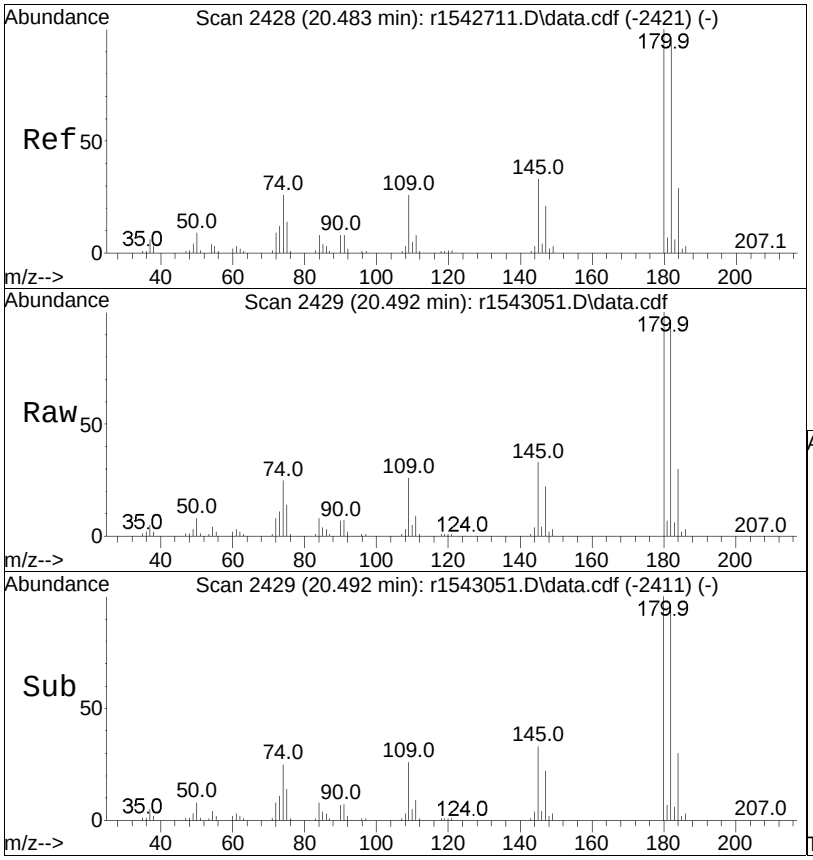


#107
1,2-dichlorobenzene
Concen: 9.23 ppbV
RT: 18.992 min Scan# 2251
Delta R.T. -0.050 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:146 Resp: 495726

Ion	Ratio	Lower	Upper
146	100		
111	41.1	32.1	48.1
75	28.5	21.1	31.7

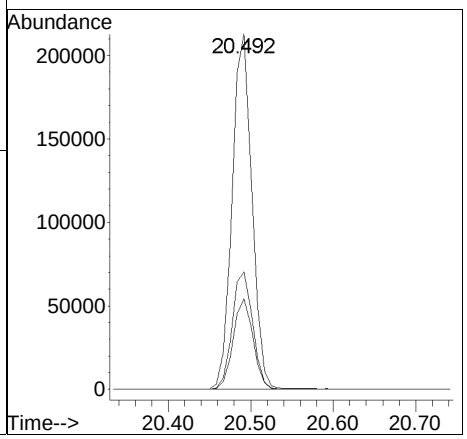


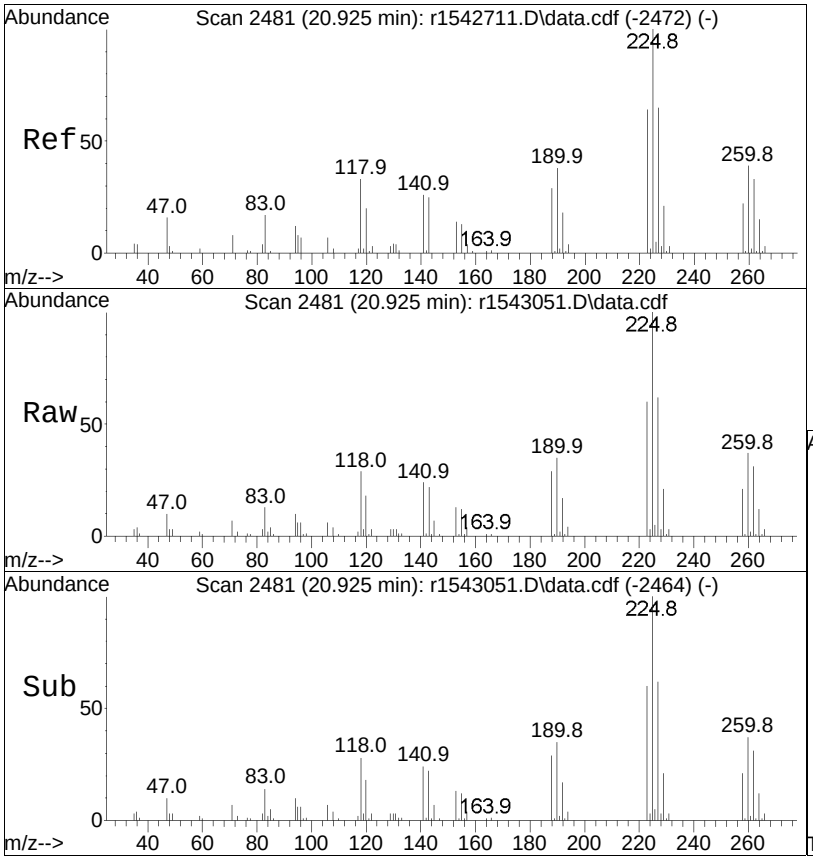


#115
1,2,4-trichlorobenzene
Concen: 8.56 ppbV
RT: 20.492 min Scan# 2429
Delta R.T. -0.050 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:180 Resp: 357207

Ion	Ratio	Lower	Upper
180	100		
145	33.1	25.1	37.7
109	25.5	17.5	26.3

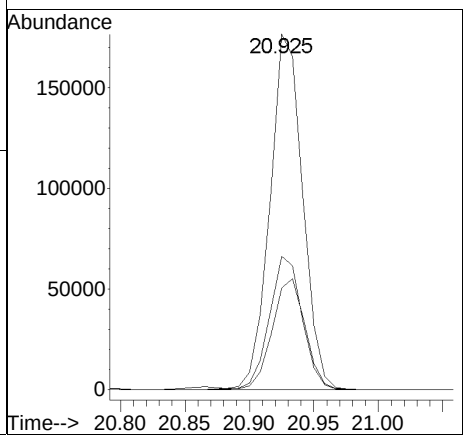




#119
hexachlorobutadiene
Concen: 8.79 ppbV
RT: 20.925 min Scan# 2481
Delta R.T. -0.058 min
Lab File: r1543051.D
Acq: 26 Feb 2024 12:34 PM

Tgt Ion:225 Resp: 311168

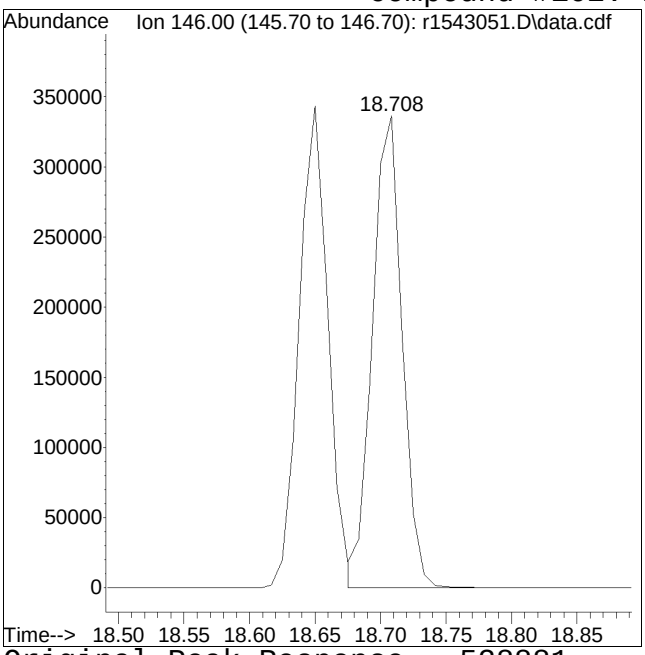
Ion	Ratio	Lower	Upper
225	100		
260	37.5	31.3	46.9
118	28.5	22.8	34.2



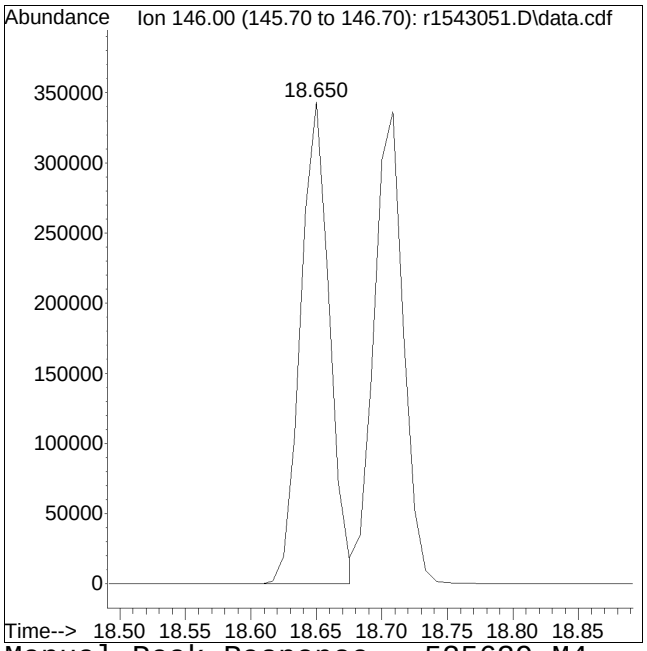
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543051.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:2: 4 Instrument :
Sample : WG1889452-3,3,250,250,, Quant Date : 2/26/2024 1:30 pm

Compound #102: 1,3-dichlorobenzene



Original Peak Response = 528881



Manual Peak Response = 525639 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222757.D
Acq On : 1 Mar 2024 1:22 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-3,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:40:51 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	111	-0.01
2		chlorodifluoromethane	10.000	11.403	-14.0	116	0.00
3		propylene	10.000	10.822	-8.2	131	0.00
4		propane	10.000	9.456	5.4	113	0.00
5		dichlorodifluoromethane	10.000	10.247	-2.5	120	0.00
6	C	chloromethane	10.000	9.848	1.5	112	0.00
7		Freon-114	10.000	11.107	-11.1	120	0.00
8	C	methanol	50.000	48.194	3.6	107	0.00
9	C	vinyl chloride	10.000	10.409	-4.1	114	0.00
10	C	1,3-butadiene	10.000	11.982	-19.8	135	0.00
11		butane	10.000	11.316	-13.2	128	0.00
13	C	bromomethane	10.000	10.499	-5.0	116	0.00
14	C	chloroethane	10.000	11.093	-10.9	123	0.00
15		ethanol	50.000	66.304	-32.6#	141	0.00
16		dichlorofluoromethane	10.000	11.984	-19.8	142	0.00
17	C	vinyl bromide	10.000	10.839	-8.4	121	0.00
18	C	acrolein	10.000	10.638	-6.4	117	0.00
19		acetone	50.000	58.979	-18.0	136	0.00
20	C	acetonitrile	10.000	11.029	-10.3	127	0.00
21		trichlorofluoromethane	10.000	10.772	-7.7	119	-0.01
22		isopropyl alcohol	25.000	26.369	-5.5	123	0.00
23	C	acrylonitrile	10.000	10.798	-8.0	122	-0.01
24		pentane	10.000	11.054	-10.5	125	0.00
25		ethyl ether	10.000	10.757	-7.6	122	-0.01
26	C	1,1-dichloroethene	10.000	11.141	-11.4	119	-0.01
27		tertiary butyl alcohol	10.000	10.384	-3.8	110	-0.02
28	C	methylene chloride	10.000	9.099	9.0	102	-0.02
29	C	3-chloropropene	10.000	10.565	-5.6	119	-0.01
30	C	carbon disulfide	10.000	8.931	10.7	100	-0.02
31		Freon 113	10.000	9.216	7.8	101	-0.01
32		trans-1,2-dichloroethene	10.000	9.639	3.6	108	-0.01
33	C	1,1-dichloroethane	10.000	9.175	8.2	100	-0.01
34	C	MTBE	10.000	9.806	1.9	108	-0.01
35	C	vinyl acetate	10.000	9.056	9.4	102	-0.02
36	C	2-butanone	10.000	9.473	5.3	103	-0.01
37		cis-1,2-dichloroethene	10.000	9.443	5.6	103	-0.01
38		Ethyl Acetate	10.000	10.244	-2.4	110	-0.01
39	C	chloroform	10.000	9.621	3.8	104	-0.01
40		Tetrahydrofuran	10.000	9.827	1.7	110	-0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222757.D
Acq On : 1 Mar 2024 1:22 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-3,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:40:51 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	10.000	9.608	3.9	101	-0.01
42	C	1,2-dichloroethane	10.000	10.079	-0.8	112	-0.02
43	I	1,4-difluorobenzene	10.000	10.000	0.0	100	-0.01
44	C	hexane	10.000	11.536	-15.4	112	-0.01
45		diisopropyl ether	10.000	9.928	0.7	94	-0.01
46		tert-butyl ethyl ether	10.000	10.485	-4.8	100	-0.01
48	C	1,1,1-trichloroethane	10.000	10.706	-7.1	102	-0.01
49		1,1-dichloropropene	10.000	11.943	-19.4	115	-0.02
50	C	benzene	10.000	9.588	4.1	93	-0.01
52	C	carbon tetrachloride	10.000	10.904	-9.0	103	-0.02
53		cyclohexane	10.000	10.988	-9.9	111	-0.01
54		tert-amyl methyl ether	10.000	9.851	1.5	95	-0.02
55		dibromomethane	10.000	10.231	-2.3	98	-0.01
56	C	1,2-dichloropropane	10.000	10.350	-3.5	98	-0.01
57		bromodichloromethane	10.000	12.172	-21.7	117	-0.02
58	C	1,4-dioxane	10.000	10.924	-9.2	106	-0.02
59	C	trichloroethene	10.000	9.864	1.4	92	-0.02
60	C	2,2,4-trimethylpentane	10.000	11.697	-17.0	113	-0.02
61		methyl methacrylate	10.000	12.647	-26.5	118	-0.02
62		heptane	10.000	11.957	-19.6	116	-0.01
63	C	cis-1,3-dichloropropene	10.000	10.506	-5.1	99	-0.02
64	C	4-methyl-2-pentanone	10.000	12.398	-24.0	116	-0.01
65		trans-1,3-dichloropropene	10.000	10.097	-1.0	97	-0.01
66	C	1,1,2-trichloroethane	10.000	9.892	1.1	95	-0.01
67	I	chlorobenzene-D5	10.000	10.000	0.0	123	-0.01
68	C	toluene	10.000	7.994	20.1	95	-0.01
71		1,3-dichloropropane	10.000	8.204	18.0	98	-0.02
72		2-hexanone	10.000	9.116	8.8	111	-0.02
74		dibromochloromethane	10.000	9.183	8.2	111	-0.02
75	C	1,2-dibromoethane	10.000	7.853	21.5	94	-0.02
76		butyl acetate	10.000	7.887	21.1	94	-0.01
77		octane	10.000	8.279	17.2	97	-0.01
78	C	tetrachloroethene	10.000	7.801	22.0	92	-0.01
79		1,1,1,2-tetrachloroethane	10.000	8.348	16.5	98	-0.02
80	C	chlorobenzene	10.000	8.140	18.6	96	-0.02
81	C	ethylbenzene	10.000	8.159	18.4	96	-0.01
83	C	m+p-xylene	20.000	17.319	13.4	100	-0.01

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222757.D
Acq On : 1 Mar 2024 1:22 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-3,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:40:51 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84	C	bromoform	10.000	8.783	12.2	104	-0.01
85	C	styrene	10.000	7.973	20.3	92	-0.01
86	C	1,1,2,2-tetrachloroethane	10.000	8.930	10.7	103	-0.01
87	C	o-xylene	10.000	8.899	11.0	103	-0.01
88		1,2,3-trichloropropane	10.000	8.419	15.8	100	-0.02
89		nonane	10.000	9.038	9.6	106	-0.01
91	C	isopropylbenzene	10.000	8.632	13.7	101	-0.01
92		bromobenzene	10.000	8.671	13.3	102	-0.02
93		2-chlorotoluene	10.000	8.342	16.6	97	-0.02
94		n-propylbenzene	10.000	8.368	16.3	95	-0.02
95		4-chlorotoluene	10.000	7.730	22.7	90	-0.02
96		4-ethyl toluene	10.000	8.803	12.0	103	-0.02
97		1,3,5-trimethylbenzene	10.000	8.974	10.3	103	-0.01
98		tert-butylbenzene	10.000	9.033	9.7	103	-0.01
99		1,2,4-trimethylbenzene	10.000	9.107	8.9	105	-0.01
100		decane	10.000	9.052	9.5	104	-0.01
101	C	Benzyl Chloride	10.000	9.430	5.7	104	-0.01
102		1,3-dichlorobenzene	10.000	8.242	17.6	94	-0.02
103	C	1,4-dichlorobenzene	10.000	7.974	20.3	89	-0.02
104		sec-butylbenzene	10.000	8.866	11.3	101	-0.02
106		p-isopropyltoluene	10.000	8.737	12.6	100	-0.02
107		1,2-dichlorobenzene	10.000	7.871	21.3	88	-0.01
108		n-butylbenzene	10.000	9.134	8.7	104	-0.01
111	C	1,2-dibromo-3-chloropropane	10.000	9.442	5.6	109	-0.01
112		undecane	10.000	9.263	7.4	102	-0.01
114		dodecane	10.000	9.349	6.5	99	-0.02
115	C	1,2,4-trichlorobenzene	10.000	7.251	27.5	75	-0.02
116		naphthalene	10.000	9.084	9.2	95	-0.02
117		1,2,3-trichlorobenzene	10.000	8.072	19.3	85	-0.02
119	C	hexachlorobutadiene	10.000	7.734	22.7	86	-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\Airlab22\2024\03\0301T\
Data File : r222757.D
Acq On : 1 Mar 2024 1:22 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-3,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:40:51 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.437	49	215042	10.000	ppbV	-0.01
Standard Area = 199252			Recovery = 107.92%			
43) 1,4-difluorobenzene	5.363	114	674926	10.000	ppbV	-0.01
Standard Area = 623148			Recovery = 108.31%			
67) chlorobenzene-D5	7.333	54	85862	10.000	ppbV	-0.01
Standard Area = 82823			Recovery = 103.67%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.200	85	177466	10.247	ppbV	99
6) chloromethane	2.305	50	92549	9.848	ppbV	99
7) Freon-114	2.365	85	278621	11.107	ppbV	94
9) vinyl chloride	2.435	62	124910	10.409	ppbV	100
10) 1,3-butadiene	2.500	54	106218	11.982	ppbV	95
13) bromomethane	2.625	94	89156	10.499	ppbV	99
14) chloroethane	2.705	64	51113	11.093	ppbV	98
15) ethanol	2.740	31	229013	66.304	ppbV	99
17) vinyl bromide	2.857	106	83698	10.839	ppbV	98
19) acetone	2.962	43	408048	58.979	ppbV	97
21) trichlorofluoromethane	3.046	101	99514	10.772	ppbV	99
22) isopropyl alcohol	3.070	45	302469	26.369	ppbV	100
26) 1,1-dichloroethene	3.345	61	198036	11.141	ppbV	93
27) tertiary butyl alcohol	3.355	59	268298	10.384	ppbV	98
28) methylene chloride	3.400	49	155100	9.099	ppbV	97
29) 3-chloropropene	3.460	41	243973	10.565	ppbV	95
30) carbon disulfide	3.545	76	422068	8.931	ppbV	98
31) Freon 113	3.530	101	238766	9.216	ppbV	95
32) trans-1,2-dichloroethene	3.857	61	211922	9.639	ppbV	94
33) 1,1-dichloroethane	3.950	63	257432	9.175	ppbV	100
34) MTBE	3.977	73	399658	9.806	ppbV	97
36) 2-butanone	4.137	43	330732	9.473	ppbV	97
37) cis-1,2-dichloroethene	4.357	61	188779	9.443	ppbV	92
38) Ethyl Acetate	4.457	61	55652	10.244	ppbV	95
39) chloroform	4.497	83	237216	9.621	ppbV	98
40) Tetrahydrofuran	4.683	42	218377	9.827	ppbV	96
42) 1,2-dichloroethane	4.850	62	141281	10.079	ppbV	96
44) hexane	4.457	57	275334	11.536	ppbV	96

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222757.D
Acq On : 1 Mar 2024 1:22 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-3,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:40:51 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 1,1,1-trichloroethane	4.977	97	199920	10.706	ppbV		95
50) benzene	5.197	78	482719	9.588	ppbV		97
52) carbon tetrachloride	5.263	117	182560	10.904	ppbV		100
53) cyclohexane	5.330	56	300268	10.988	ppbV		93
56) 1,2-dichloropropane	5.583	63	170094	10.350	ppbV	#	98
57) bromodichloromethane	5.670	83	266265	12.172	ppbV		98
58) 1,4-dioxane	5.683	88	120024	10.924	ppbV		97
59) trichloroethene	5.690	130	196287	9.864	ppbV		99
60) 2,2,4-trimethylpentane	5.710	57	890817	11.697	ppbV		97
62) heptane	5.830	43	359917	11.957	ppbV		96
63) cis-1,3-dichloropropene	6.087	75	252162	10.506	ppbV		96
64) 4-methyl-2-pentanone	6.100	43	414973	12.398	ppbV		96
65) trans-1,3-dichloropropene	6.327	75	198884	10.097	ppbV		94
66) 1,1,2-trichloroethane	6.407	97	176016	9.892	ppbV		93
68) toluene	6.533	91	572566	7.994	ppbV		100
72) 2-hexanone	6.640	43	382988	9.116	ppbV		97
74) dibromochloromethane	6.720	129	261503	9.183	ppbV		99
75) 1,2-dibromoethane	6.833	107	247734	7.853	ppbV		100
78) tetrachloroethene	7.047	166	216764	7.801	ppbV		93
80) chlorobenzene	7.347	112	450907	8.140	ppbV		98
81) ethylbenzene	7.520	91	706787	8.159	ppbV		98
83) m+p-xylene	7.600	91	1168178	17.319	ppbV		98
84) bromoform	7.640	173	205068	8.783	ppbV		96
85) styrene	7.767	104	482027	7.973	ppbV		95
86) 1,1,2,2-tetrachloroethane	7.813	83	403805	8.930	ppbV		98
87) o-xylene	7.820	91	586101	8.899	ppbV		96
96) 4-ethyl toluene	8.413	105	856546	8.803	ppbV		99
97) 1,3,5-trimethylbenzene	8.453	105	714825	8.974	ppbV		96
99) 1,2,4-trimethylbenzene	8.663	105	693284	9.107	ppbV		96
101) Benzyl Chloride	8.737	91	430931	9.430	ppbV		96
102) 1,3-dichlorobenzene	8.743	146	460737M3	8.242	ppbV		
103) 1,4-dichlorobenzene	8.777	146	427527	7.974	ppbV		97
107) 1,2-dichlorobenzene	8.957	146	413520	7.871	ppbV	#	92
115) 1,2,4-trichlorobenzene	9.842	180	299290	7.251	ppbV		96
119) hexachlorobutadiene	10.083	225	244998	7.734	ppbV		96

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222757.D
Acq On : 1 Mar 2024 1:22 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-3,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:40:51 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

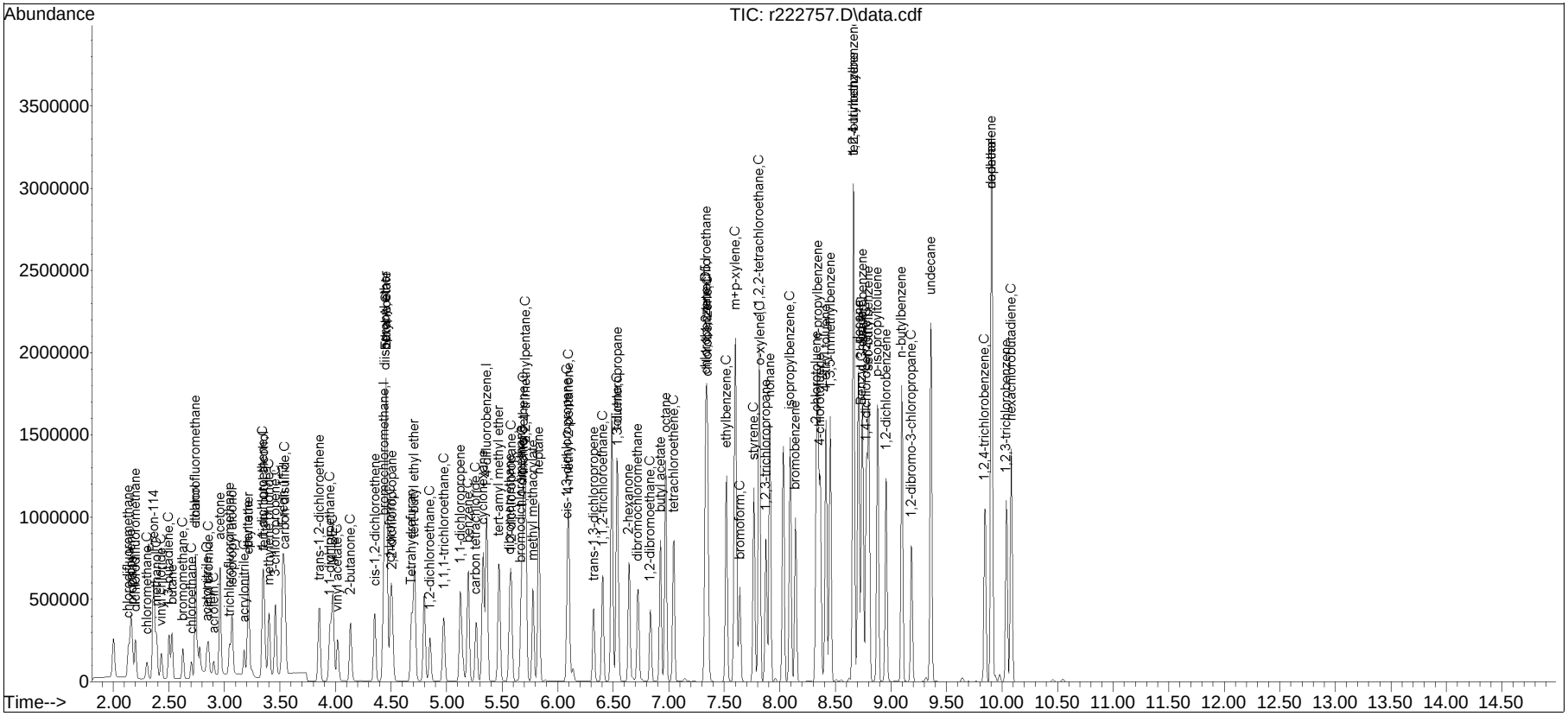
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : Default-LCS-AP2 - All compounds listed

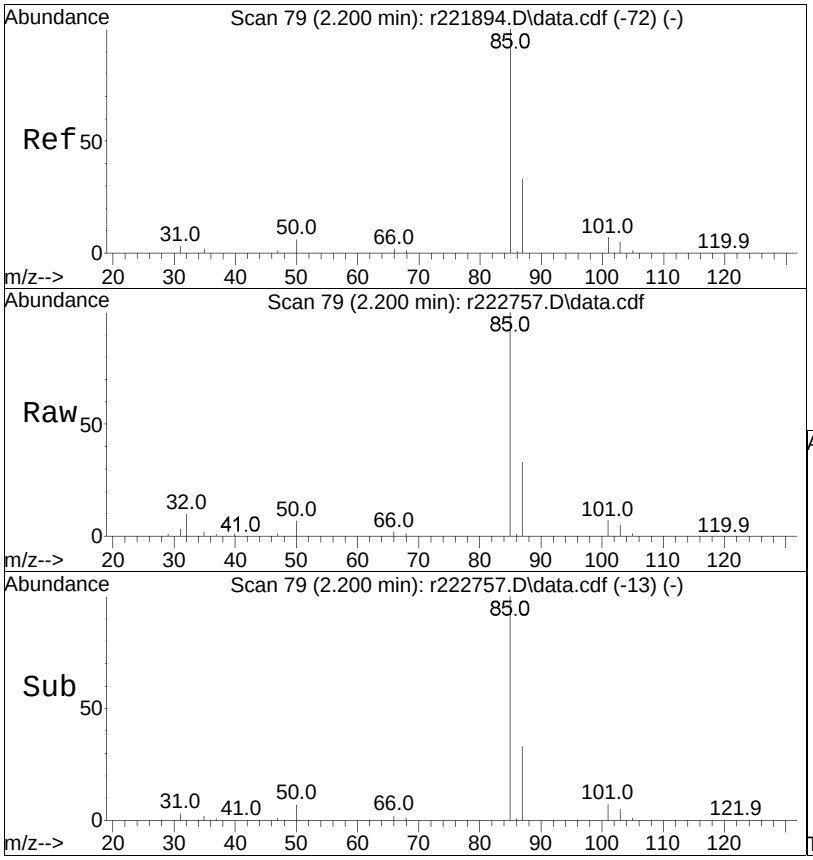
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed1T\r222756.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222757.D
Acq On : 1 Mar 2024 1:22 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-3,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:40:51 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

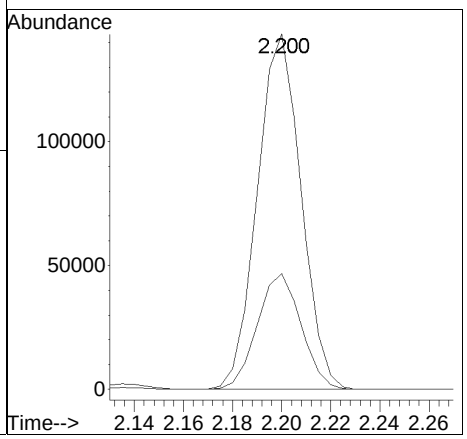


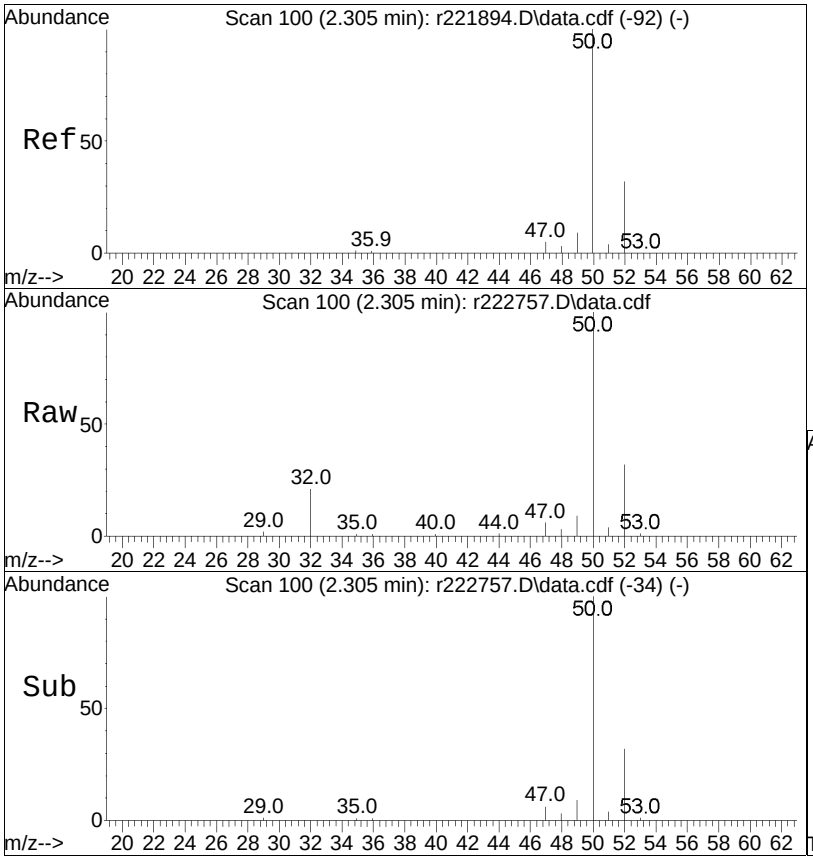


#5
dichlorodifluoromethane
Concen: 10.25 ppbV
RT: 2.200 min Scan# 79
Delta R.T. 0.000 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 85 Resp: 177466

Ion	Ratio	Lower	Upper
85	100		
87	32.5	26.3	39.5

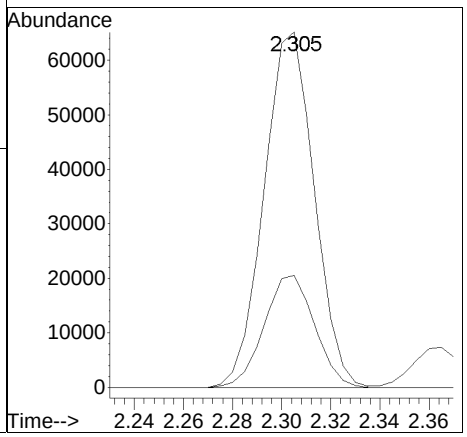


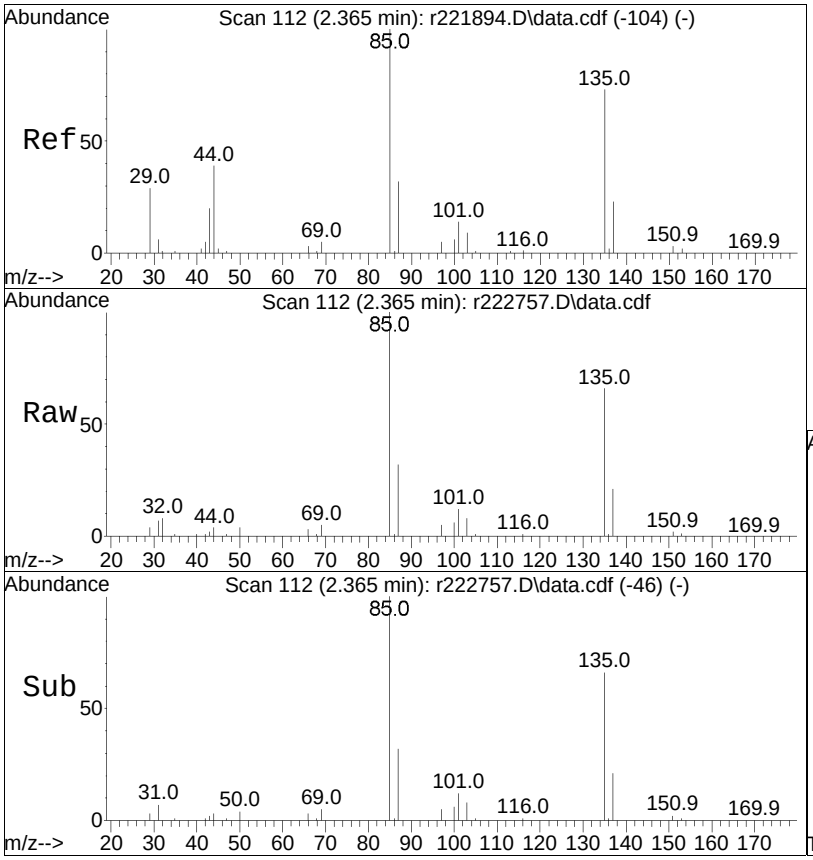


#6
chloromethane
Concen: 9.85 ppbV
RT: 2.305 min Scan# 100
Delta R.T. 0.000 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 50 Resp: 92549

Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.5	38.3

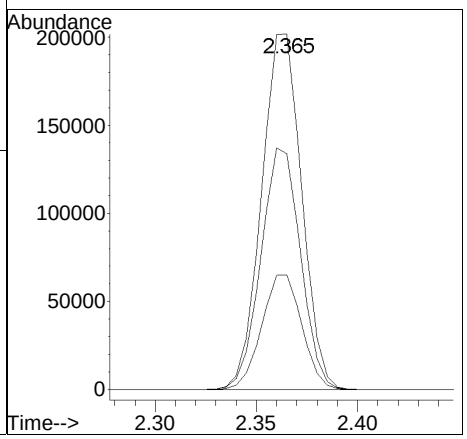


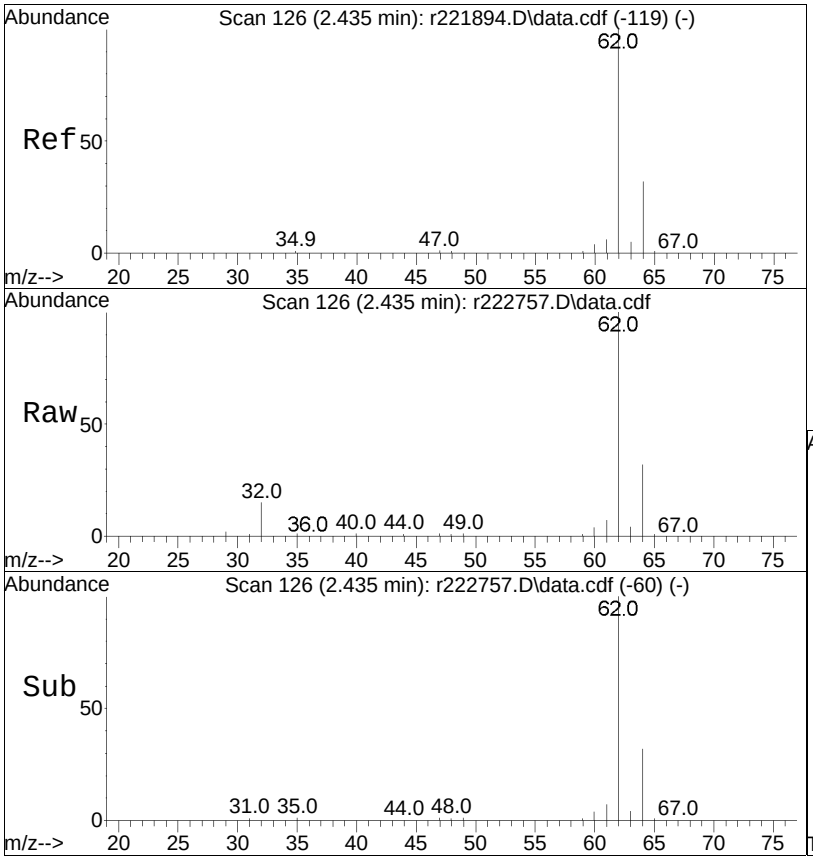


#7
Freon-114
Concen: 11.11 ppbV
RT: 2.365 min Scan# 112
Delta R.T. 0.000 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 85 Resp: 278621

Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.8	38.6
135	66.3	58.7	88.1

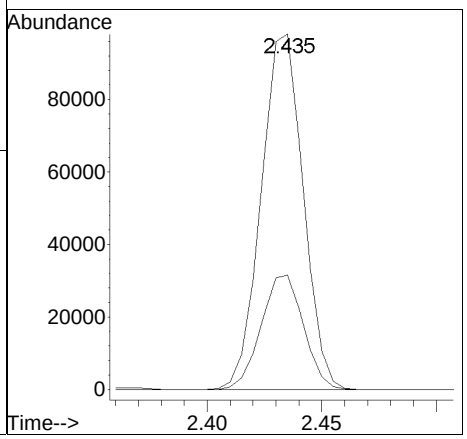


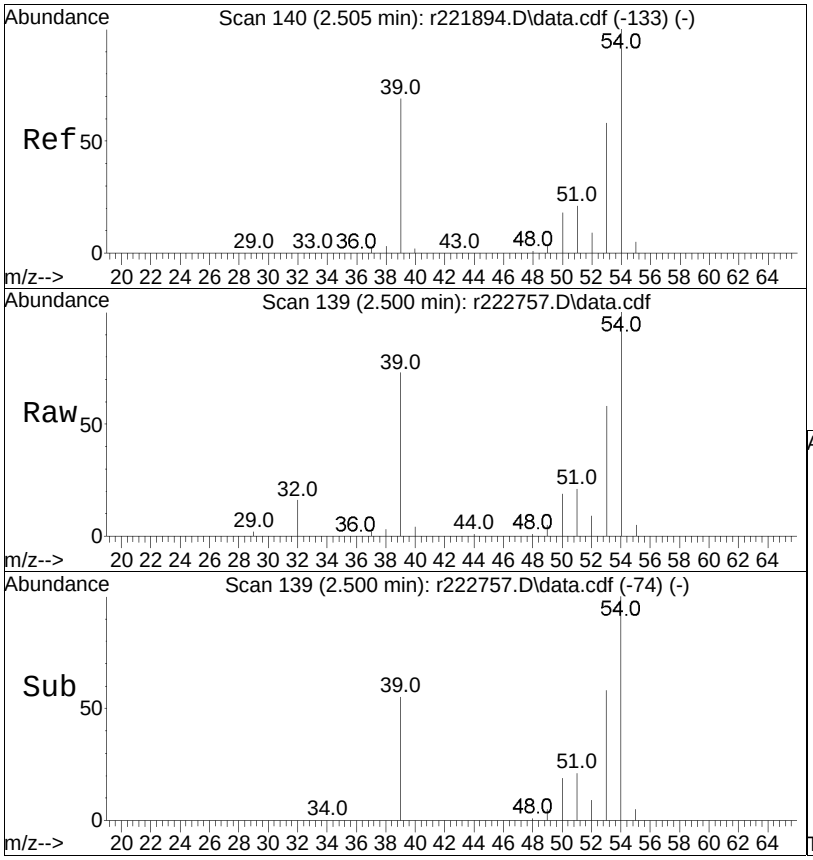


#9
vinyl chloride
Concen: 10.41 ppbV
RT: 2.435 min Scan# 126
Delta R.T. 0.000 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 62 Resp: 124910

Ion	Ratio	Lower	Upper
62	100		
64	32.1	25.7	38.5

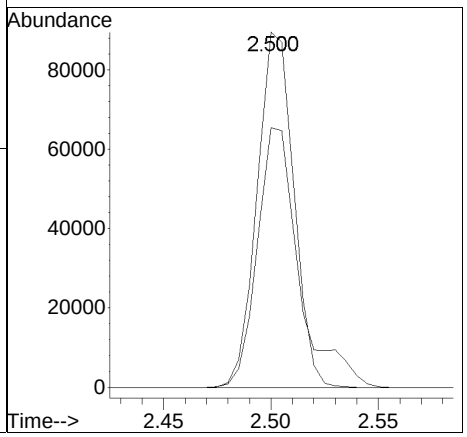


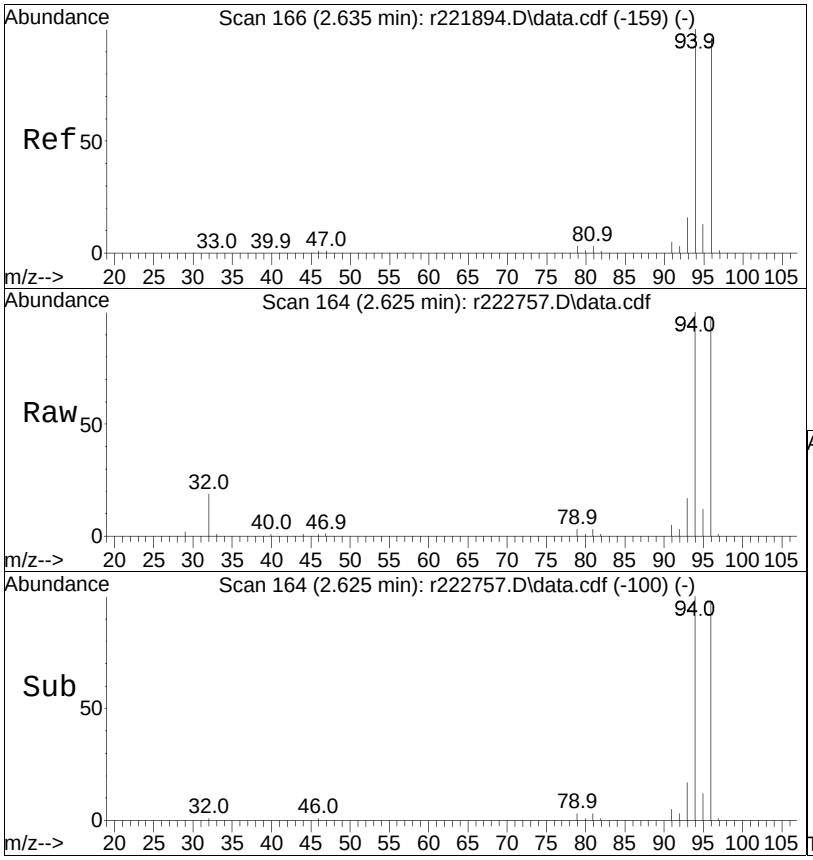


#10
1,3-butadiene
Concen: 11.98 ppbV
RT: 2.500 min Scan# 139
Delta R.T. -0.005 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 54 Resp: 106218

Ion	Ratio	Lower	Upper
54	100		
39	73.1	55.4	83.2

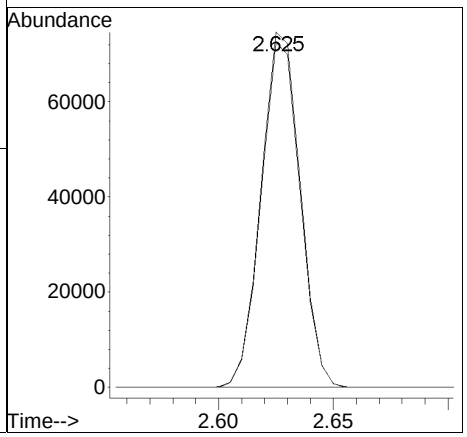


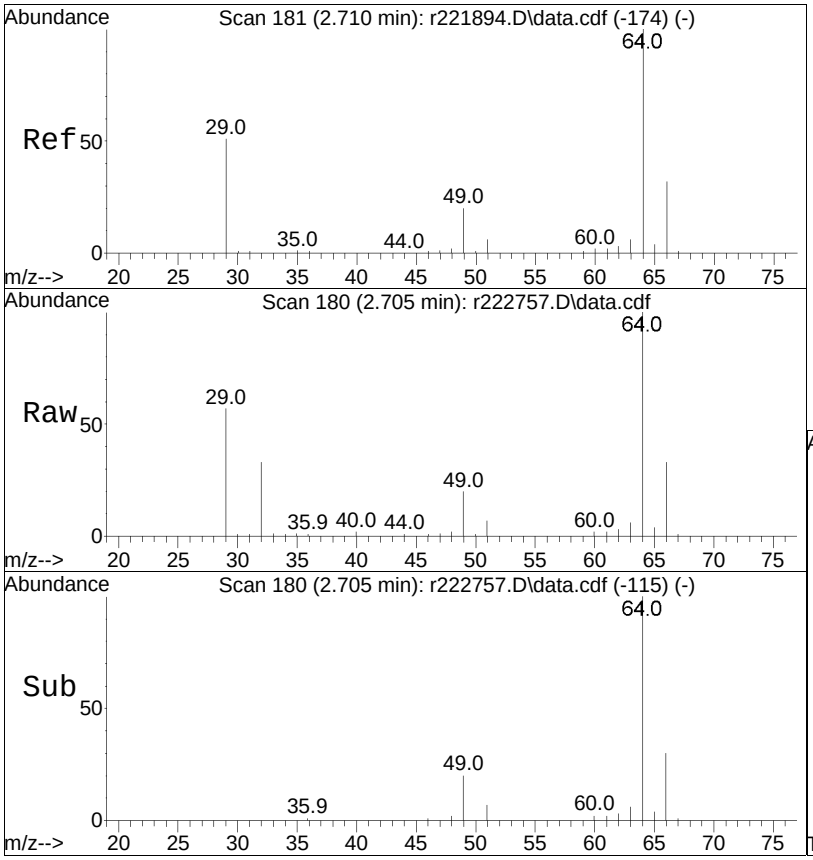


#13
bromomethane
Concen: 10.50 ppbV
RT: 2.625 min Scan# 164
Delta R.T. -0.010 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 94 Resp: 89156

Ion	Ratio	Lower	Upper
94	100		
96	97.0	77.1	115.7

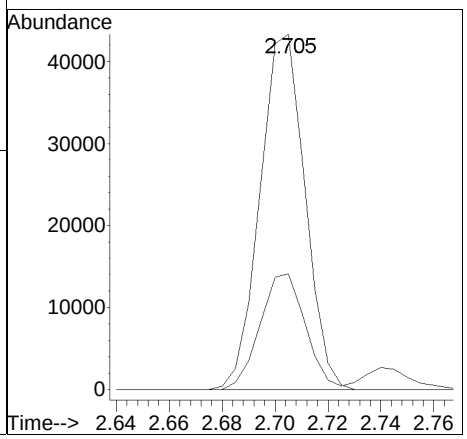


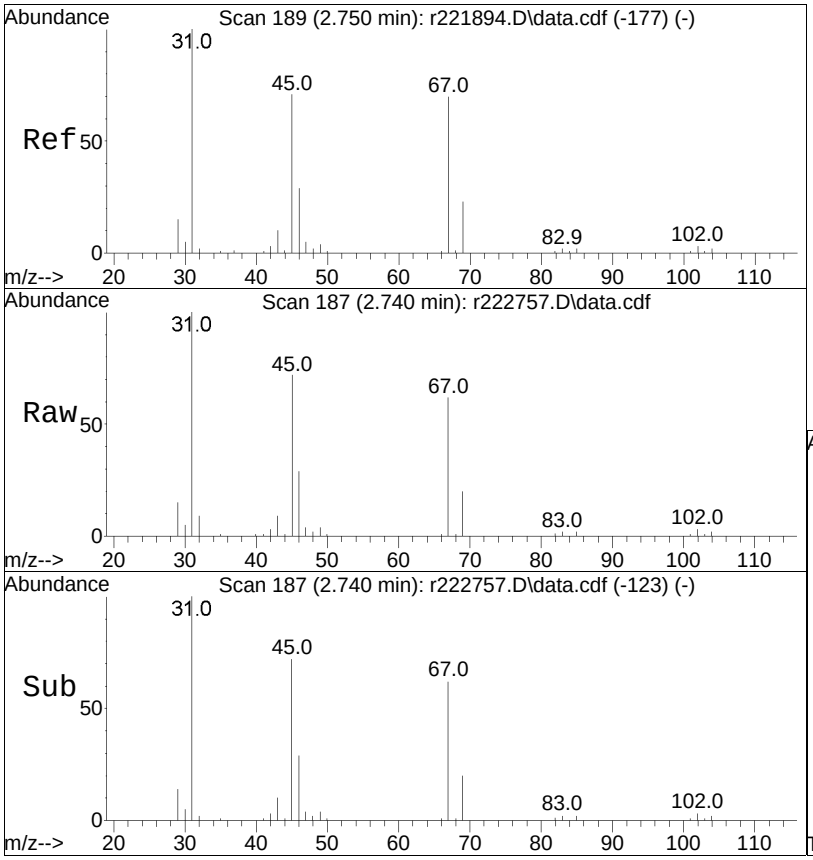


#14
chloroethane
Concen: 11.09 ppbV
RT: 2.705 min Scan# 180
Delta R.T. -0.005 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 64 Resp: 51113

Ion	Ratio	Lower	Upper
64	100		
66	32.5	25.4	38.0

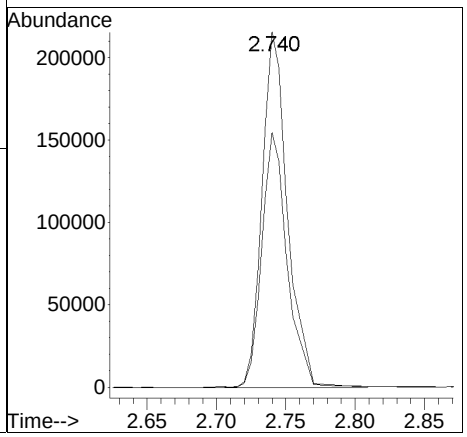


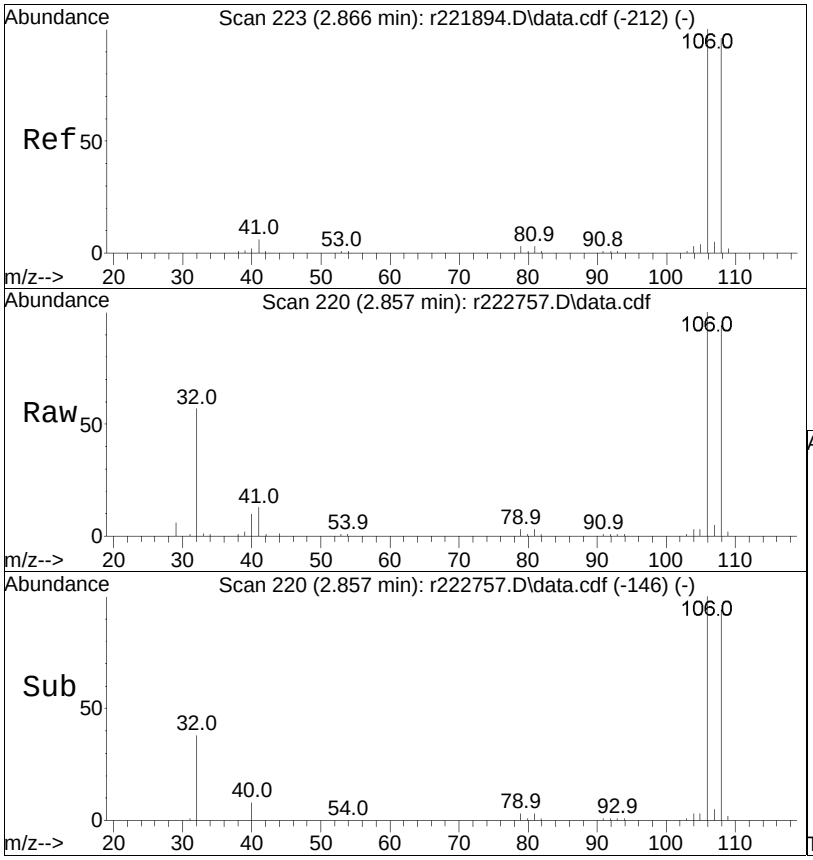


#15
ethanol
Concen: 66.30 ppbV
RT: 2.740 min Scan# 187
Delta R.T. -0.010 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 31 Resp: 229013

Ion	Ratio	Lower	Upper
31	100		
45	71.7	56.6	84.8

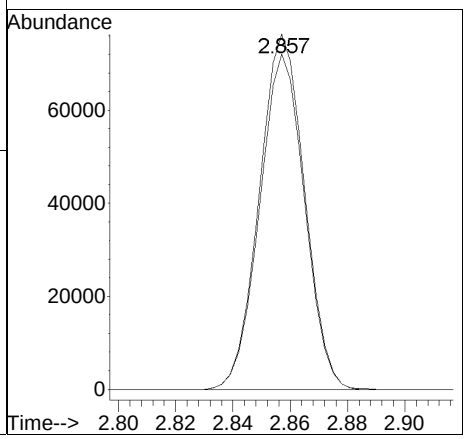


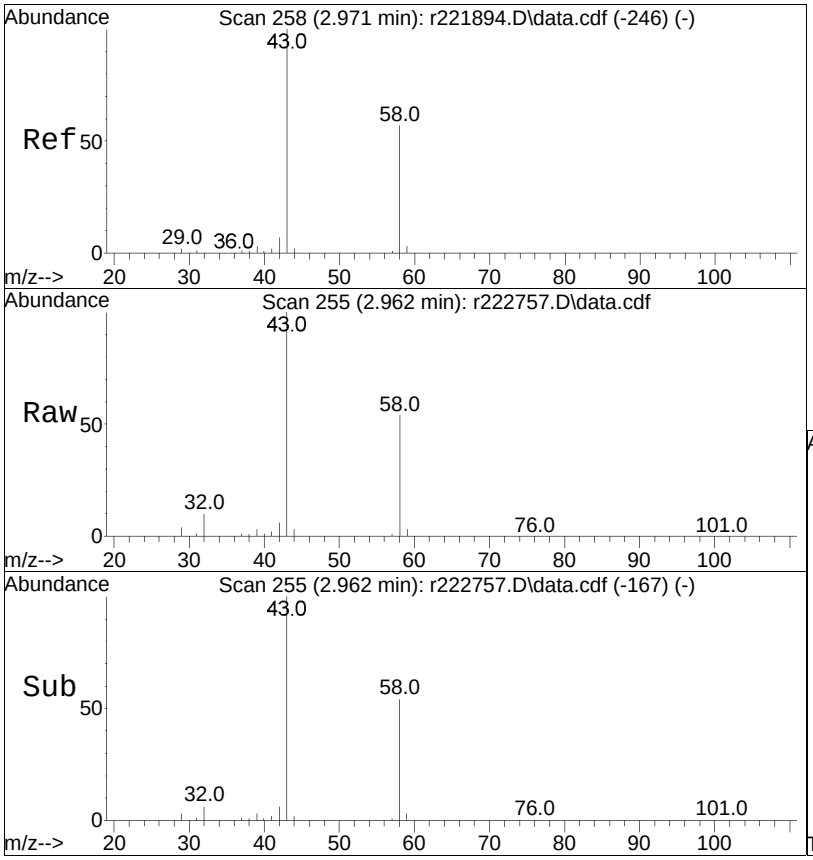


#17
vinyl bromide
Concen: 10.84 ppbV
RT: 2.857 min Scan# 220
Delta R.T. -0.009 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:106 Resp: 83698

Ion	Ratio	Lower	Upper
106	100		
108	94.3	76.7	115.1

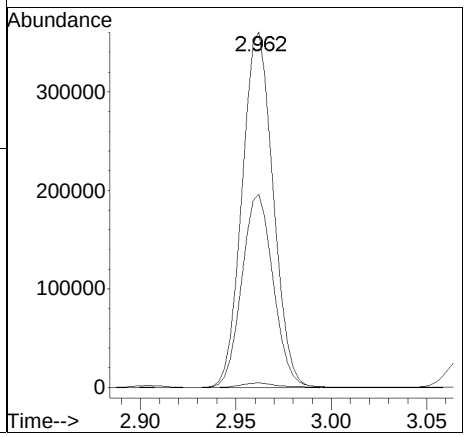


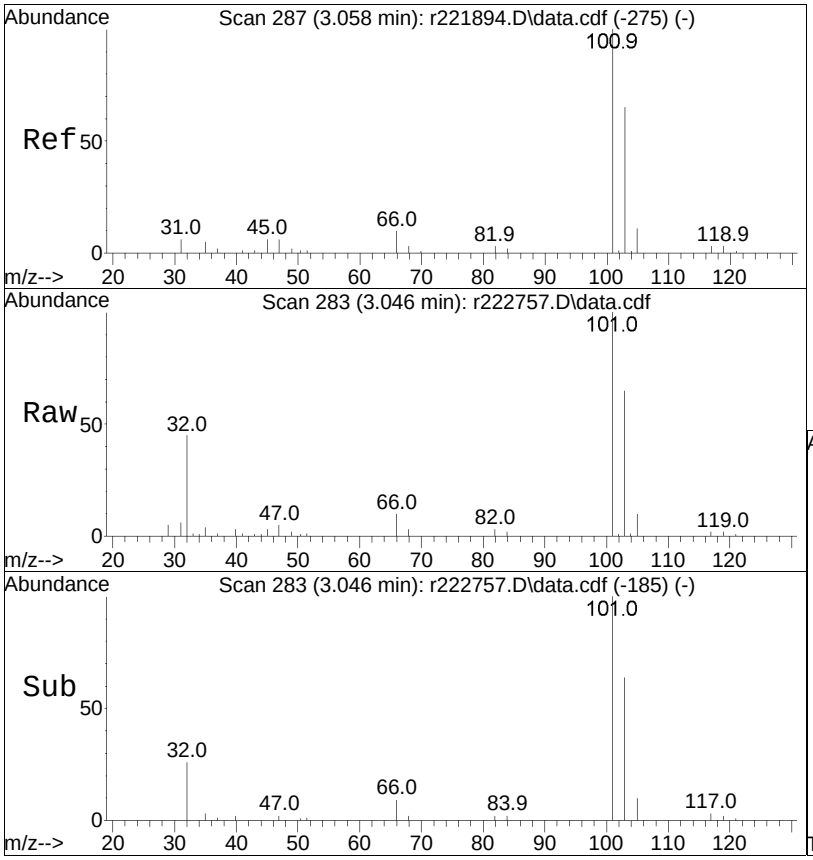


#19
acetone
Concen: 58.98 ppbV
RT: 2.962 min Scan# 255
Delta R.T. -0.009 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 43 Resp: 408048

Ion	Ratio	Lower	Upper
43	100		
58	54.3	45.5	68.3
57	1.3	1.0	1.6

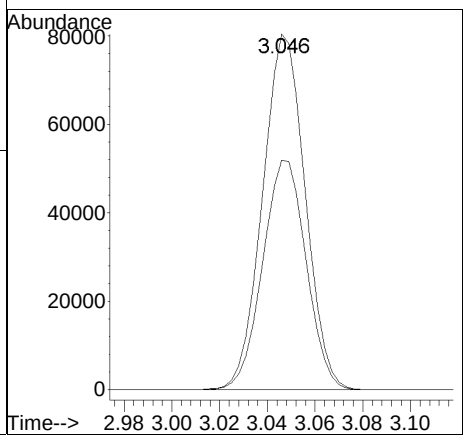


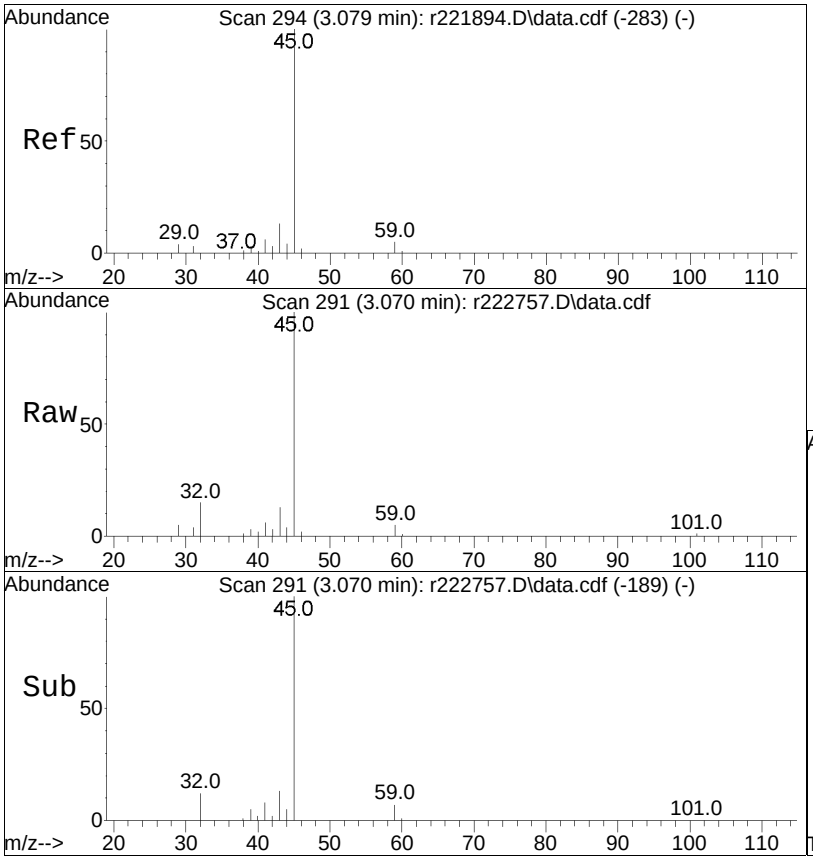


#21
trichlorofluoromethane
Concen: 10.77 ppbV
RT: 3.046 min Scan# 283
Delta R.T. -0.012 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:101 Resp: 99514

Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.2	78.4

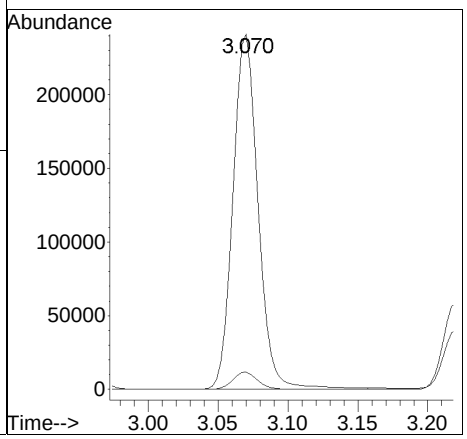


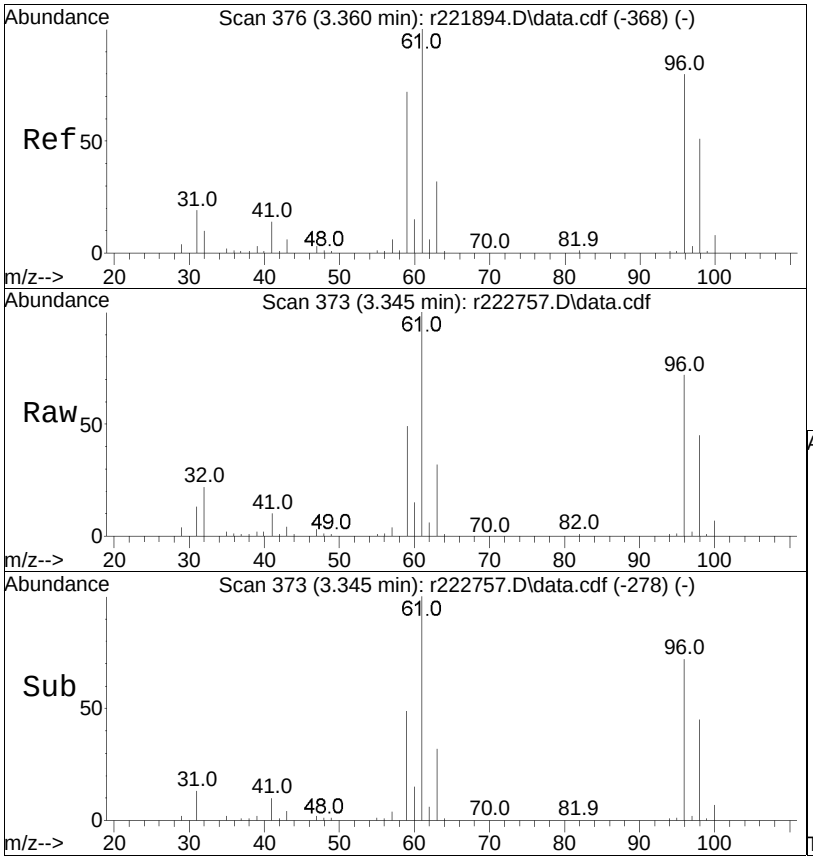


#22
isopropyl alcohol
Concen: 26.37 ppbV
RT: 3.070 min Scan# 291
Delta R.T. -0.009 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 45 Resp: 302469

Ion	Ratio	Lower	Upper
45	100		
59	4.9	4.0	6.0

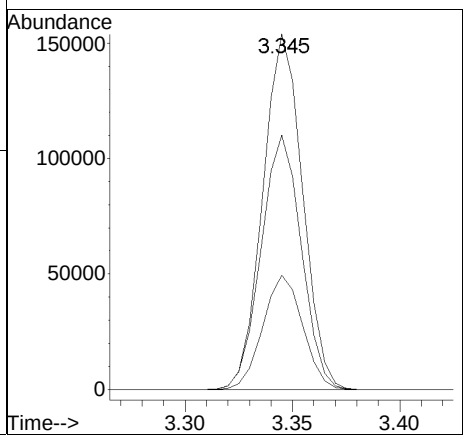


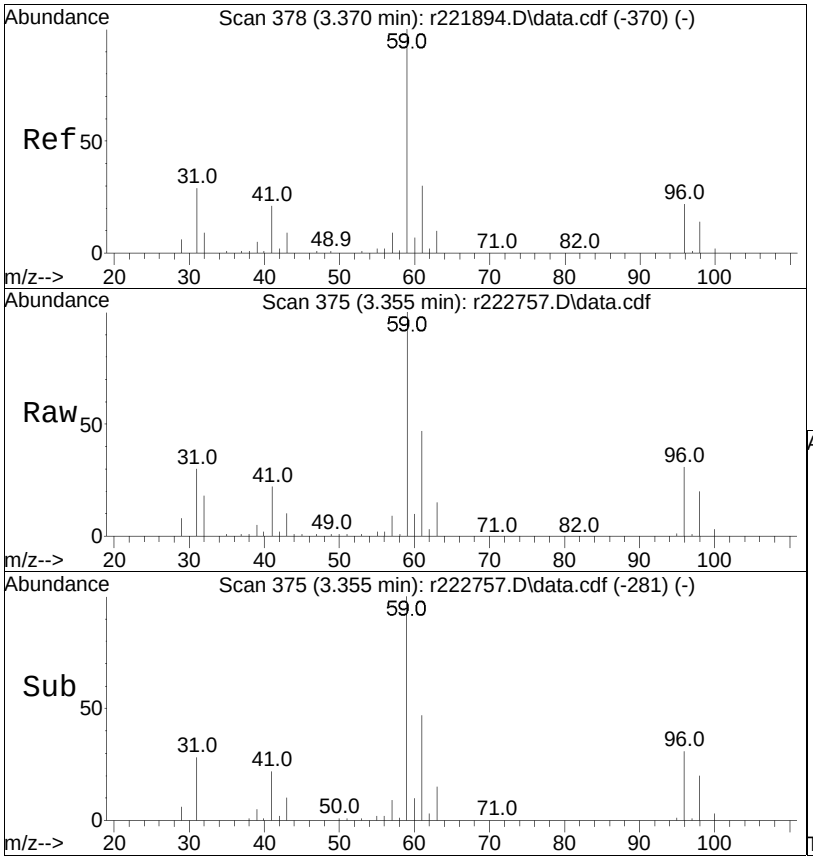


#26
1,1-dichloroethene
Concen: 11.14 ppbV
RT: 3.345 min Scan# 373
Delta R.T. -0.015 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 61 Resp: 198036

Ion	Ratio	Lower	Upper
61	100		
96	71.5	64.1	96.1
63	32.2	25.8	38.8

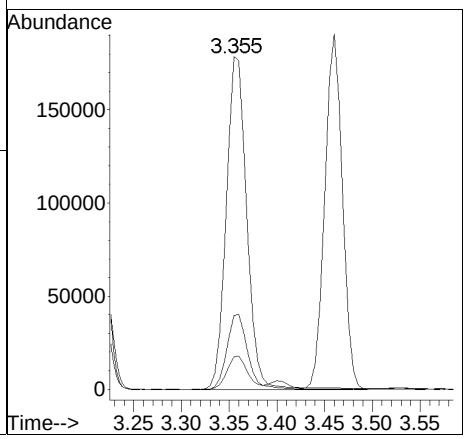


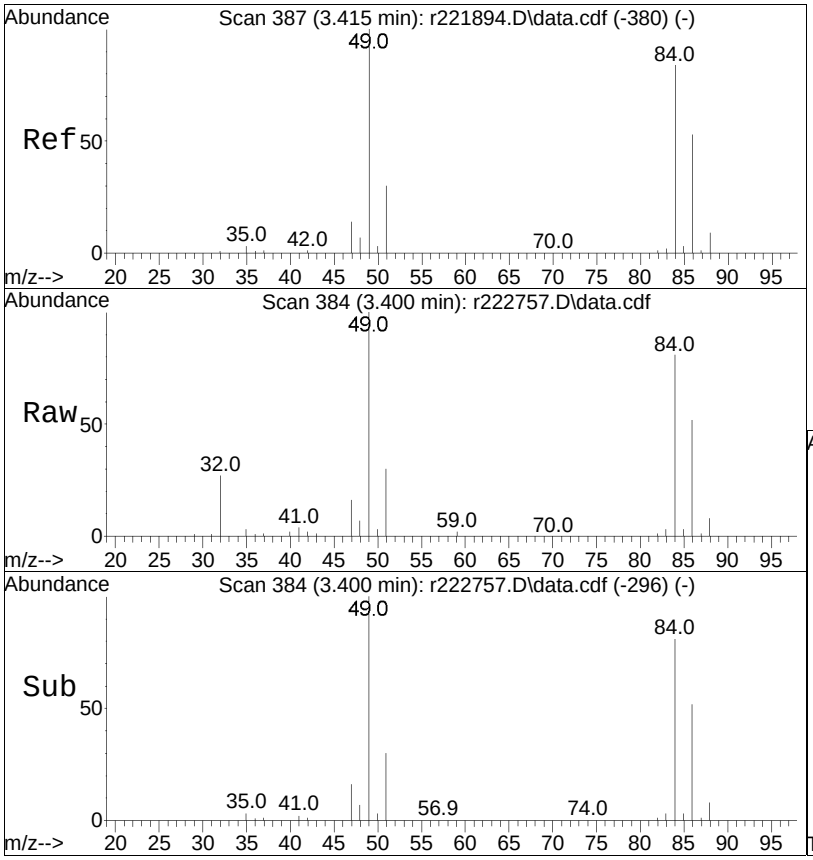


#27
tertiary butyl alcohol
Concen: 10.38 ppbV
RT: 3.355 min Scan# 375
Delta R.T. -0.015 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 59 Resp: 268298

Ion	Ratio	Lower	Upper
59	100		
41	22.2	16.9	25.3
43	9.8	7.5	11.3

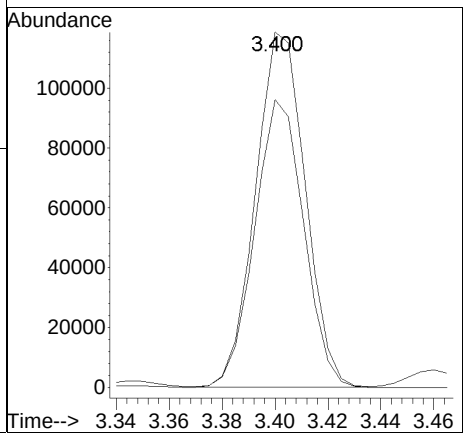


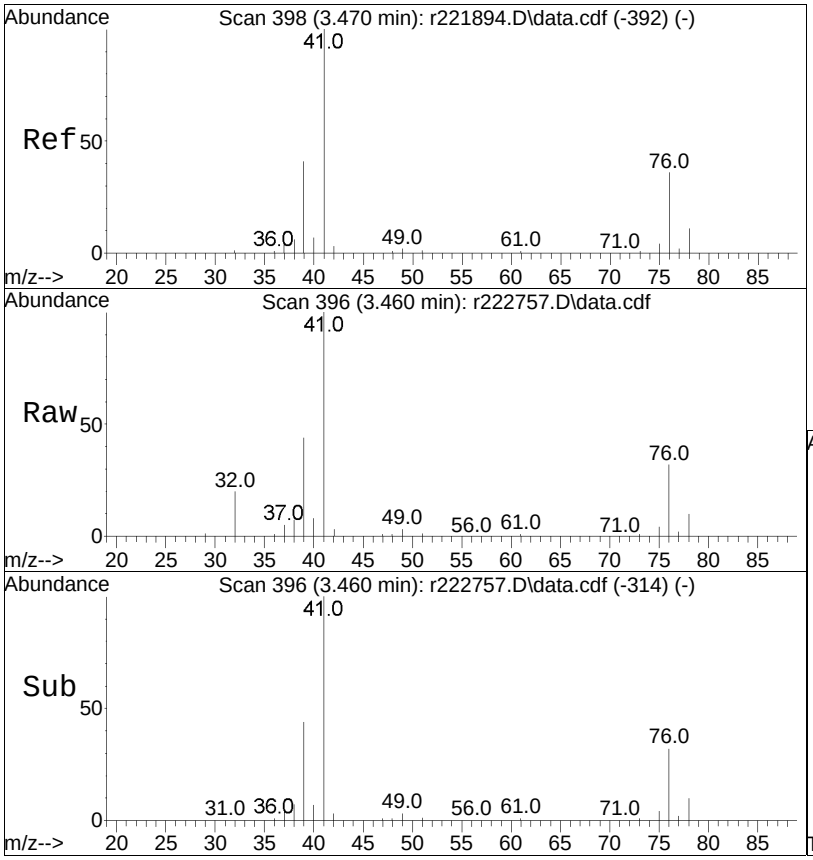


#28
methylene chloride
Concen: 9.10 ppbV
RT: 3.400 min Scan# 384
Delta R.T. -0.015 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 49 Resp: 155100

Ion	Ratio	Lower	Upper
49	100		
84	81.0	67.2	100.8

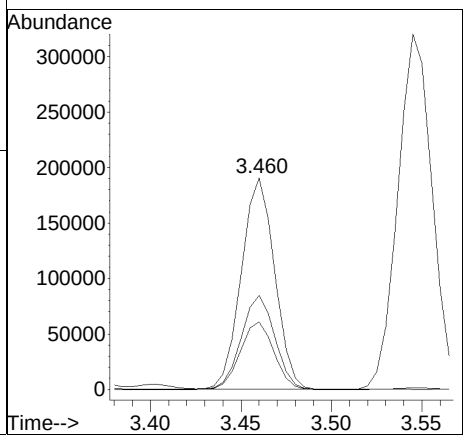


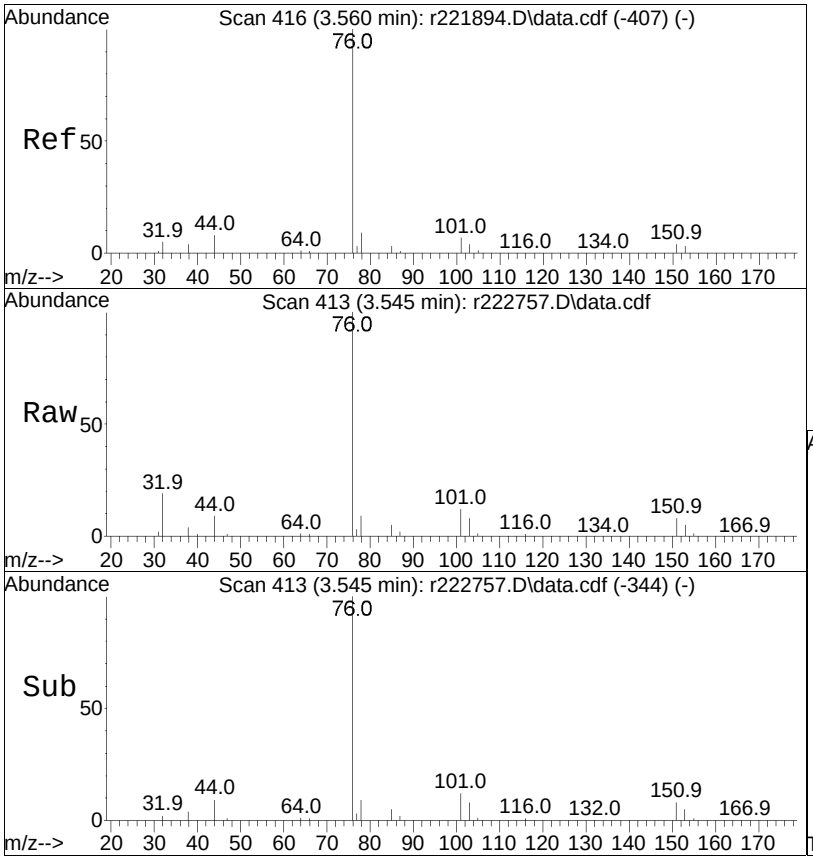


#29
3-chloropropene
Concen: 10.56 ppbV
RT: 3.460 min Scan# 396
Delta R.T. -0.010 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 41 Resp: 243973

Ion	Ratio	Lower	Upper
41	100		
39	44.4	33.0	49.6
76	31.9	28.3	42.5

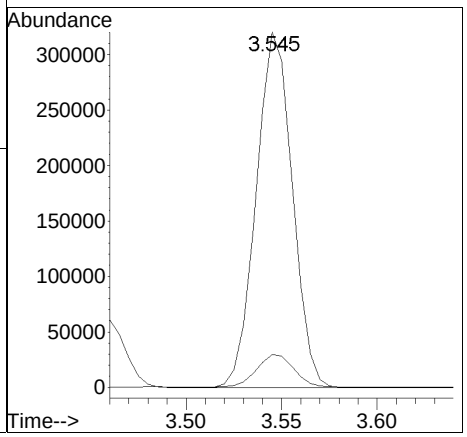


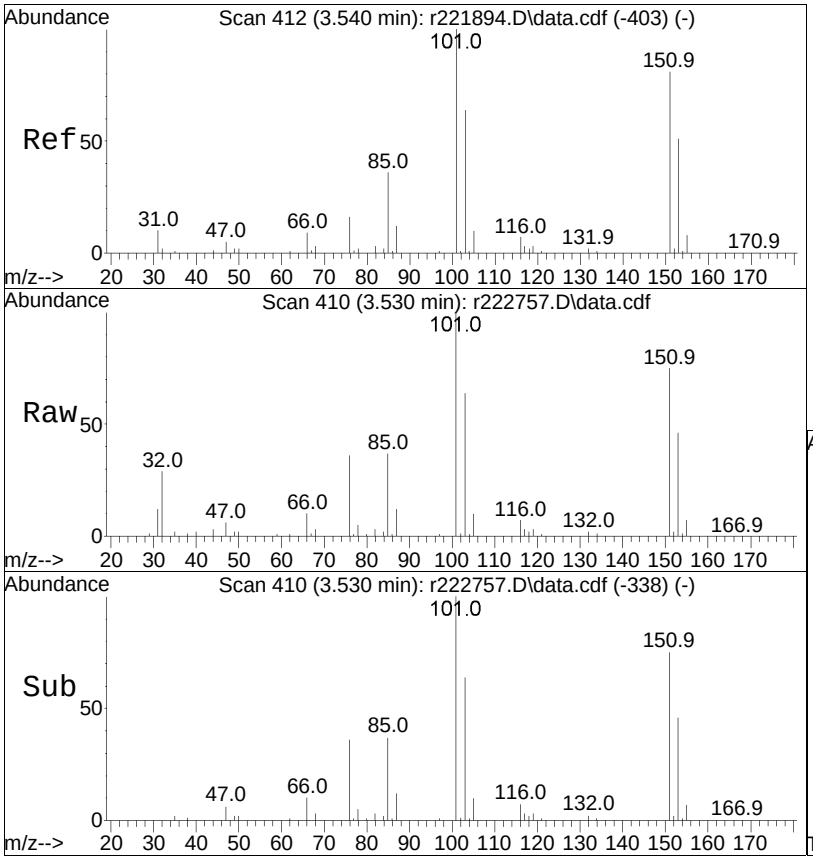


#30
carbon disulfide
Concen: 8.93 ppbV
RT: 3.545 min Scan# 413
Delta R.T. -0.015 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 76 Resp: 422068

Ion	Ratio	Lower	Upper
76	100		
44	9.3	6.8	10.2

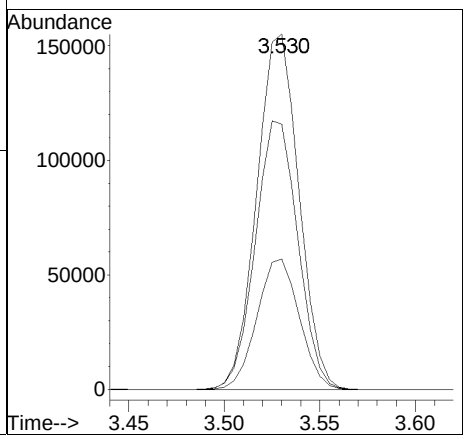


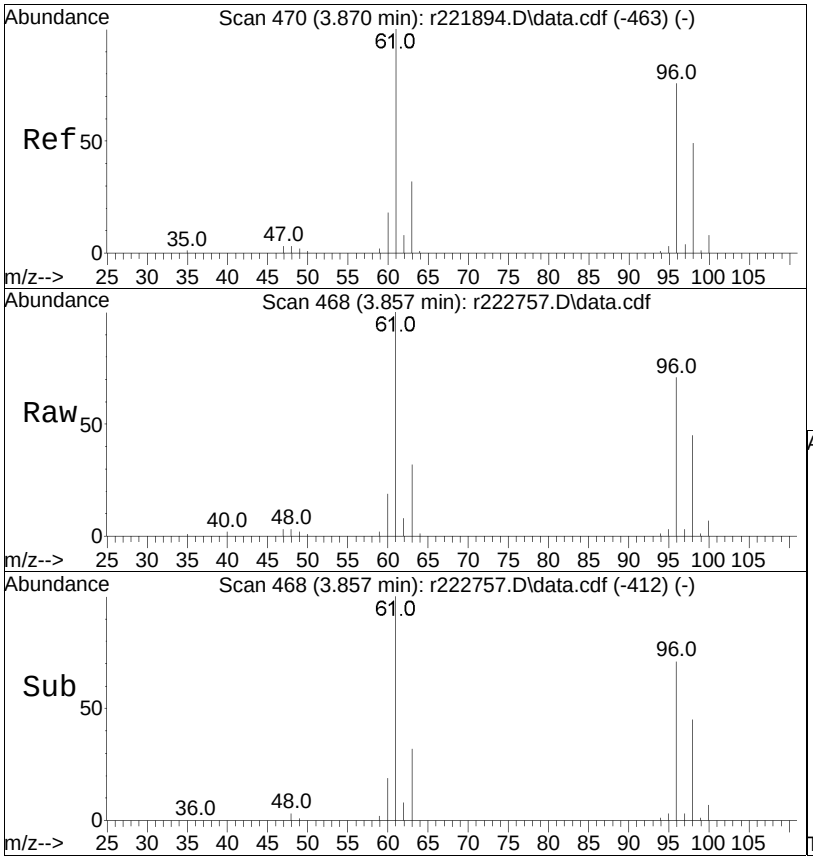


#31
Freon 113
Concen: 9.22 ppbV
RT: 3.530 min Scan# 410
Delta R.T. -0.010 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:101 Resp: 238766

Ion	Ratio	Lower	Upper
101	100		
85	36.7	28.6	43.0
151	74.6	64.6	97.0

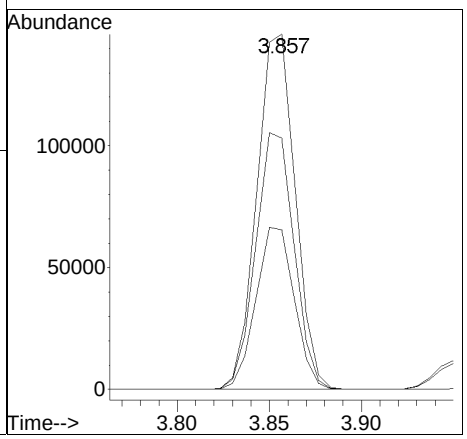


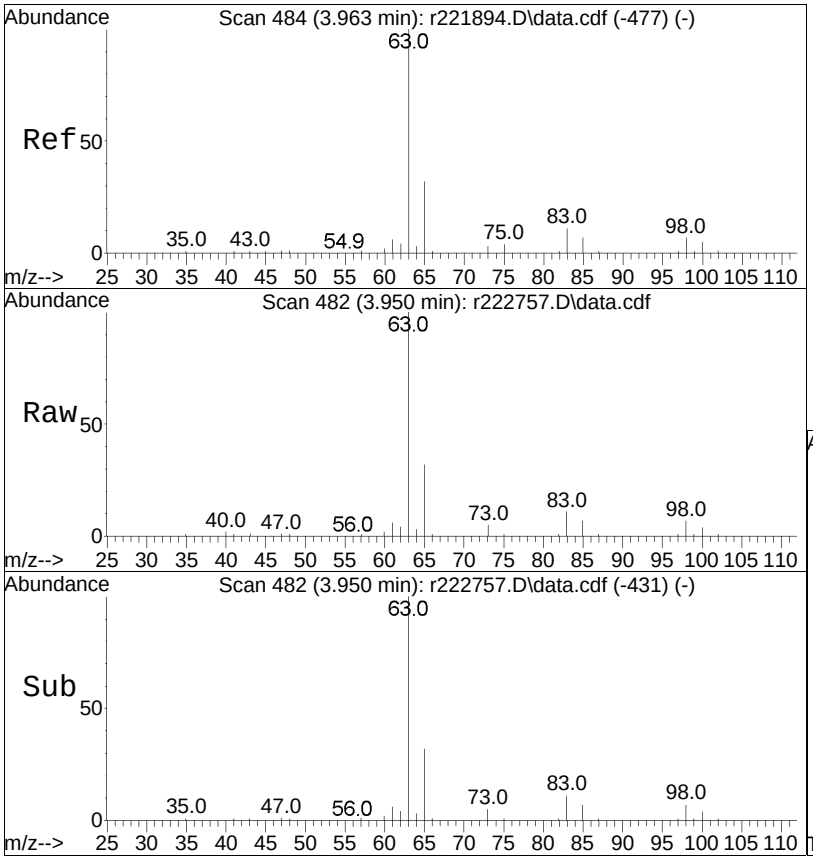


#32
trans-1,2-dichloroethene
Concen: 9.64 ppbV
RT: 3.857 min Scan# 468
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 61 Resp: 211922

Ion	Ratio	Lower	Upper
61	100		
96	70.7	61.0	91.6
98	44.9	39.0	58.6

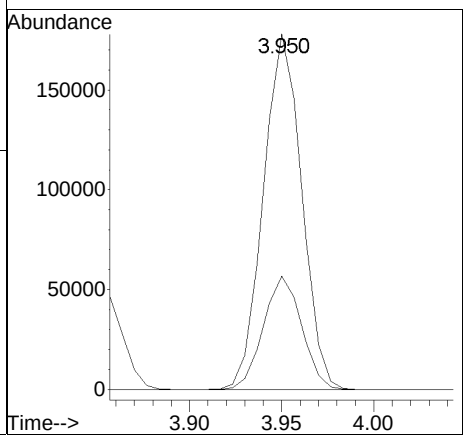


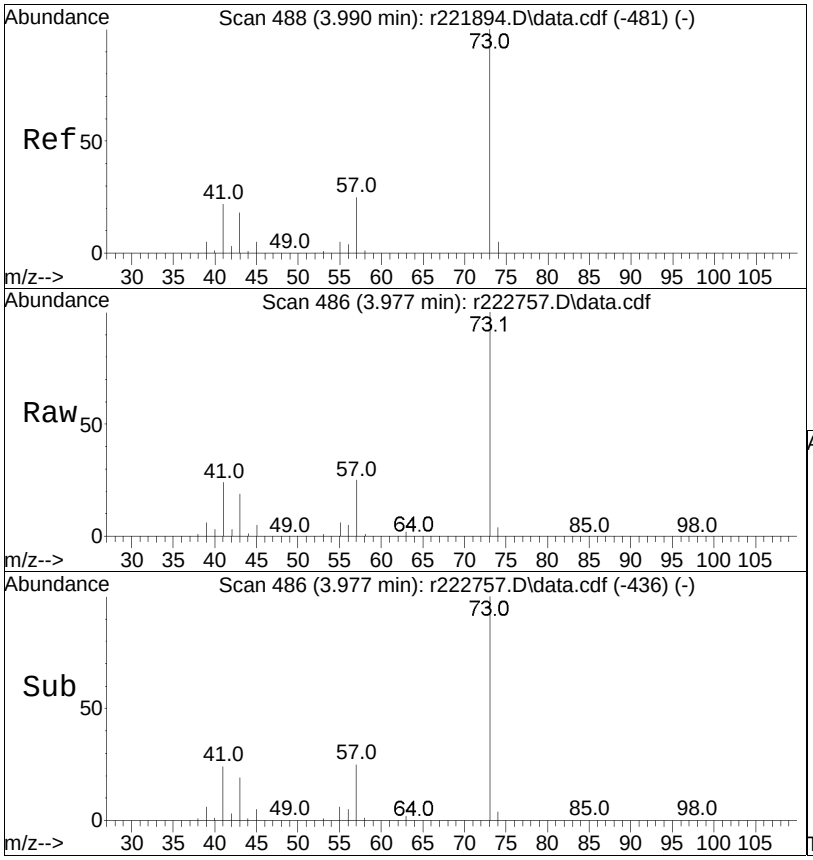


#33
1,1-dichloroethane
Concen: 9.17 ppbV
RT: 3.950 min Scan# 482
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 63 Resp: 257432

Ion	Ratio	Lower	Upper
63	100		
65	31.9	25.5	38.3

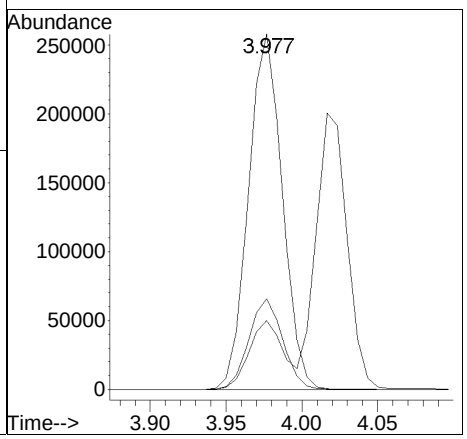


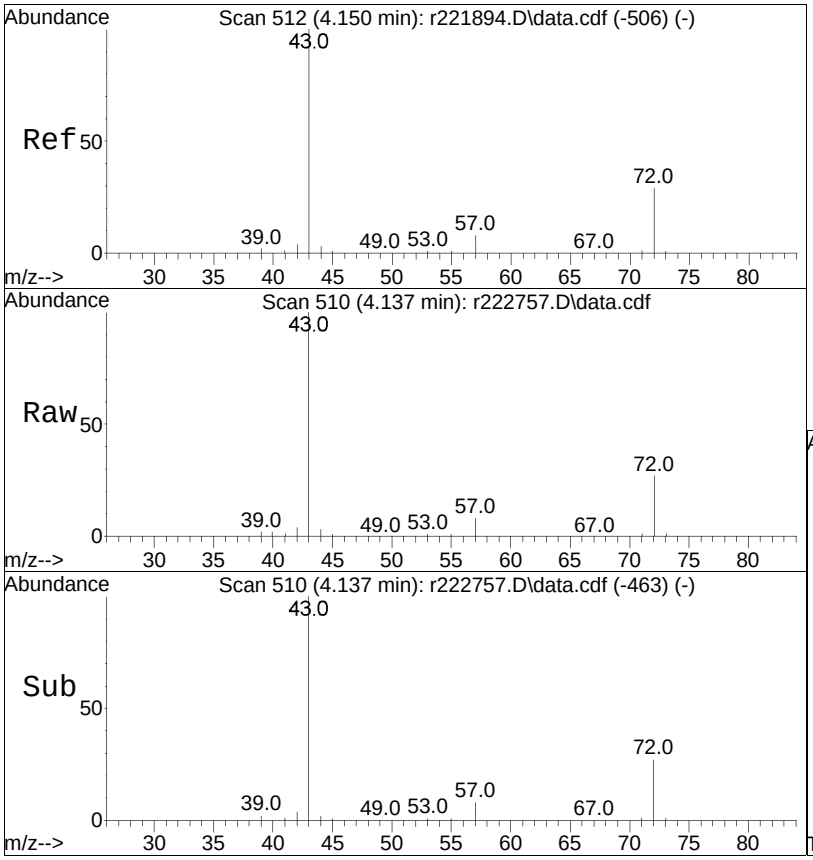


#34
MTBE
Concen: 9.81 ppbV
RT: 3.977 min Scan# 486
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 73 Resp: 399658

Ion	Ratio	Lower	Upper
73	100		
57	25.5	19.8	29.6
43	19.4	14.1	21.1

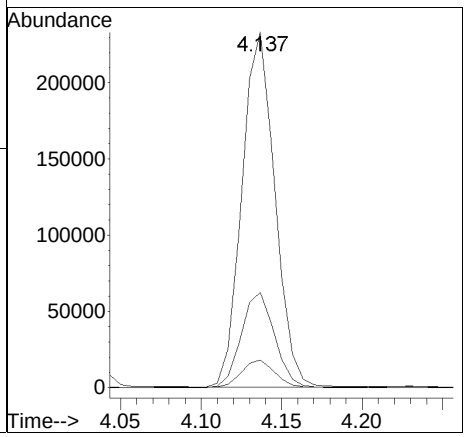


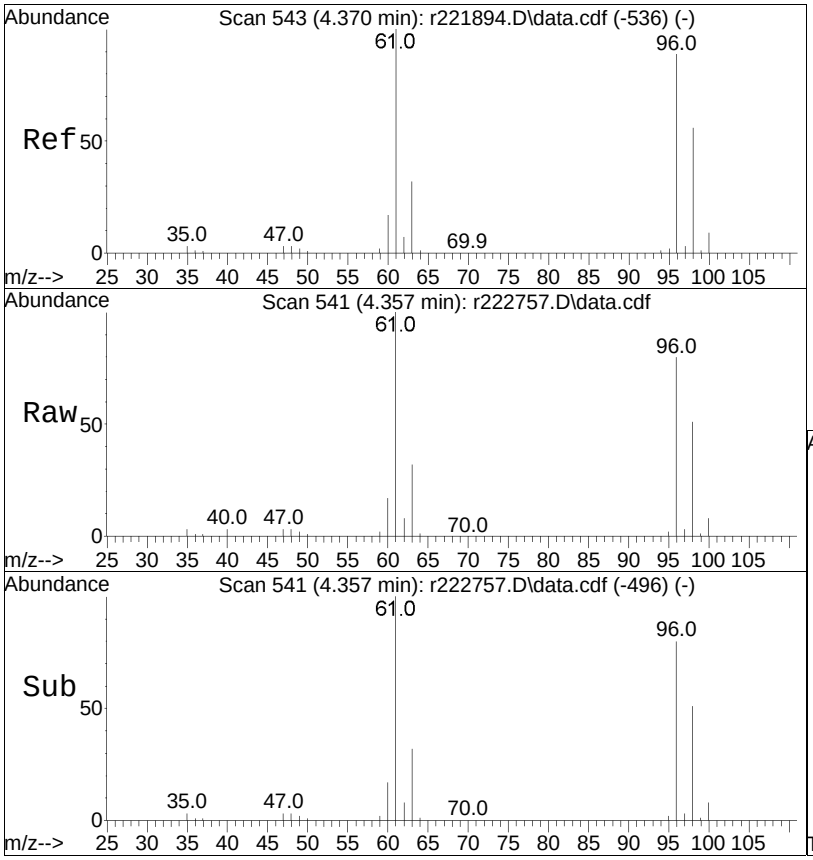


#36
2-butanone
Concen: 9.47 ppbV
RT: 4.137 min Scan# 510
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 43 Resp: 330732

Ion	Ratio	Lower	Upper
43	100		
72	26.8	23.0	34.6
57	7.7	6.3	9.5

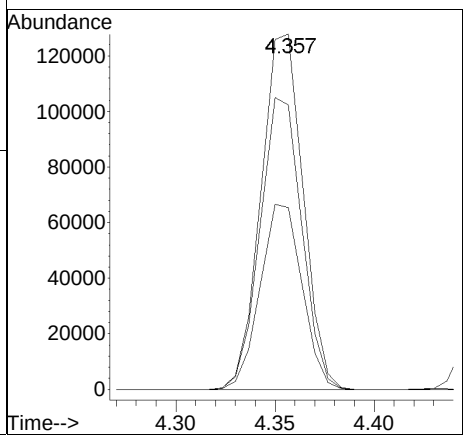


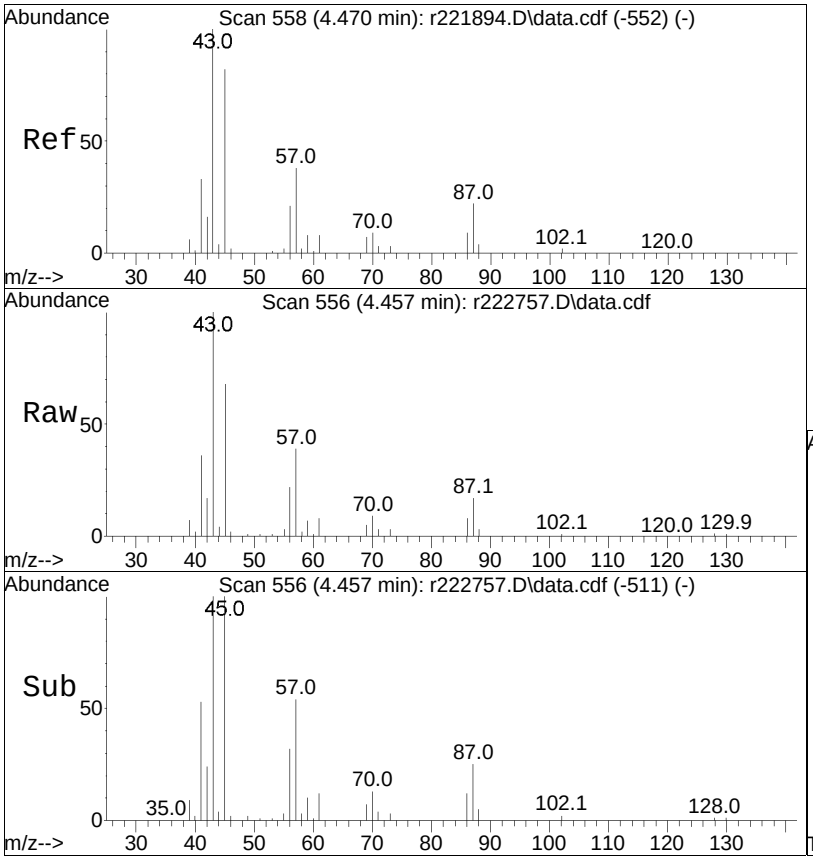


#37
cis-1,2-dichloroethene
Concen: 9.44 ppbV
RT: 4.357 min Scan# 541
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 61 Resp: 188779

Ion	Ratio	Lower	Upper
61	100		
96	80.0	71.0	106.4
98	51.2	44.8	67.2

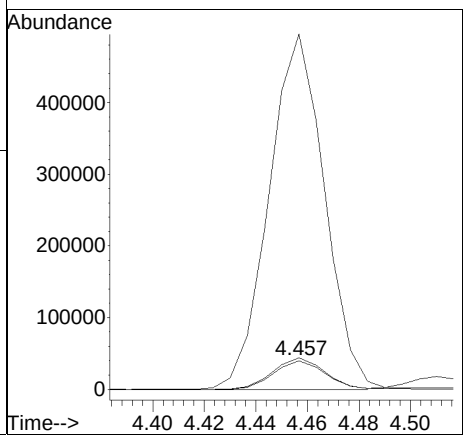


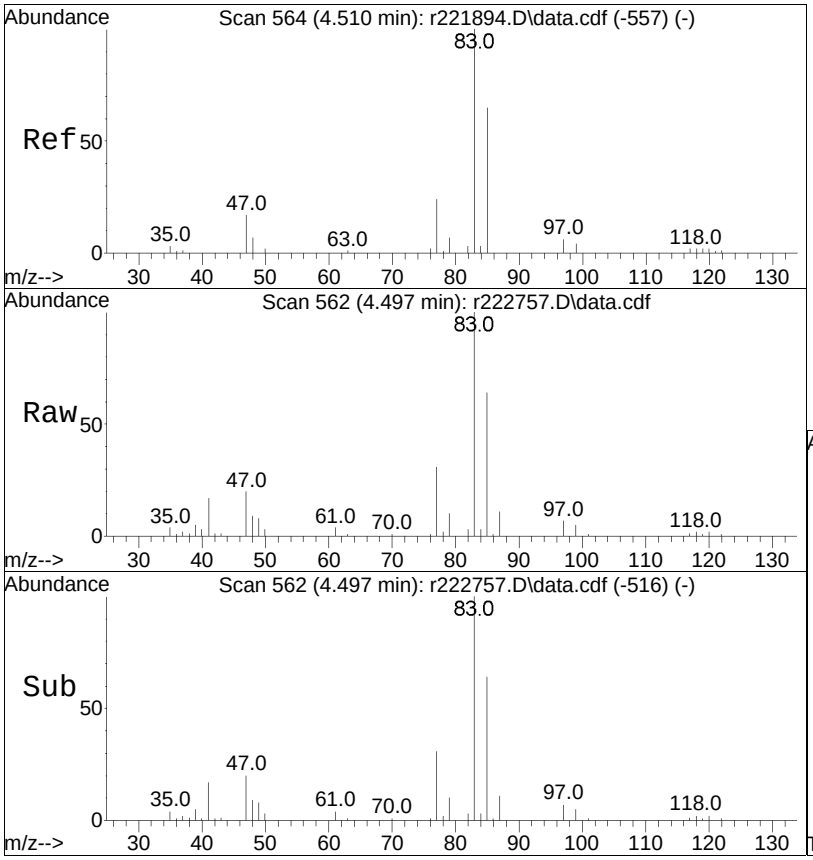


#38
Ethyl Acetate
Concen: 10.24 ppbV
RT: 4.457 min Scan# 556
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 61 Resp: 55652

Ion	Ratio	Lower	Upper
61	100		
70	110.6	91.7	137.5
43	1240.3	971.0	1456.6

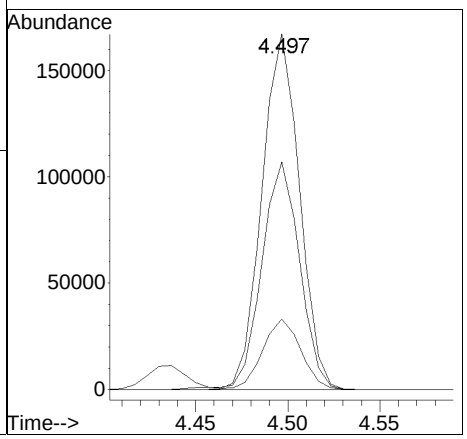


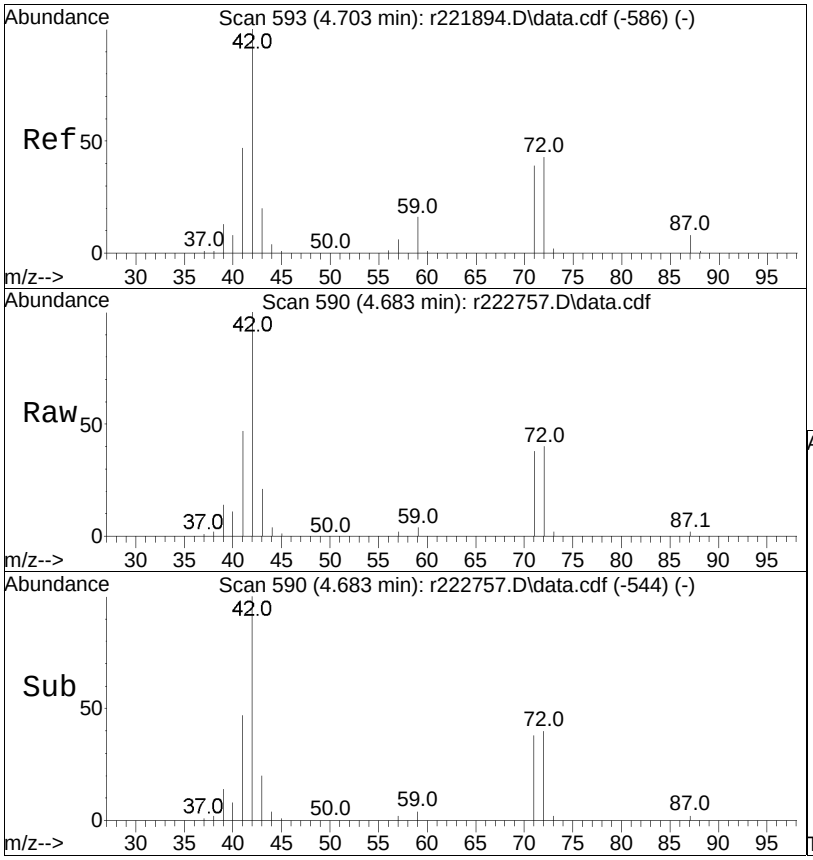


#39
chloroform
Concen: 9.62 ppbV
RT: 4.497 min Scan# 562
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 83 Resp: 237216

Ion	Ratio	Lower	Upper
83	100		
85	64.0	52.6	79.0
47	19.8	15.1	22.7

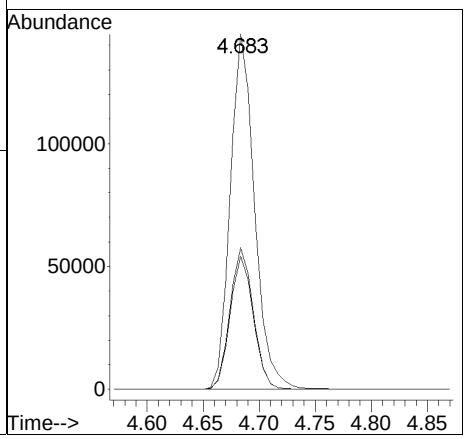


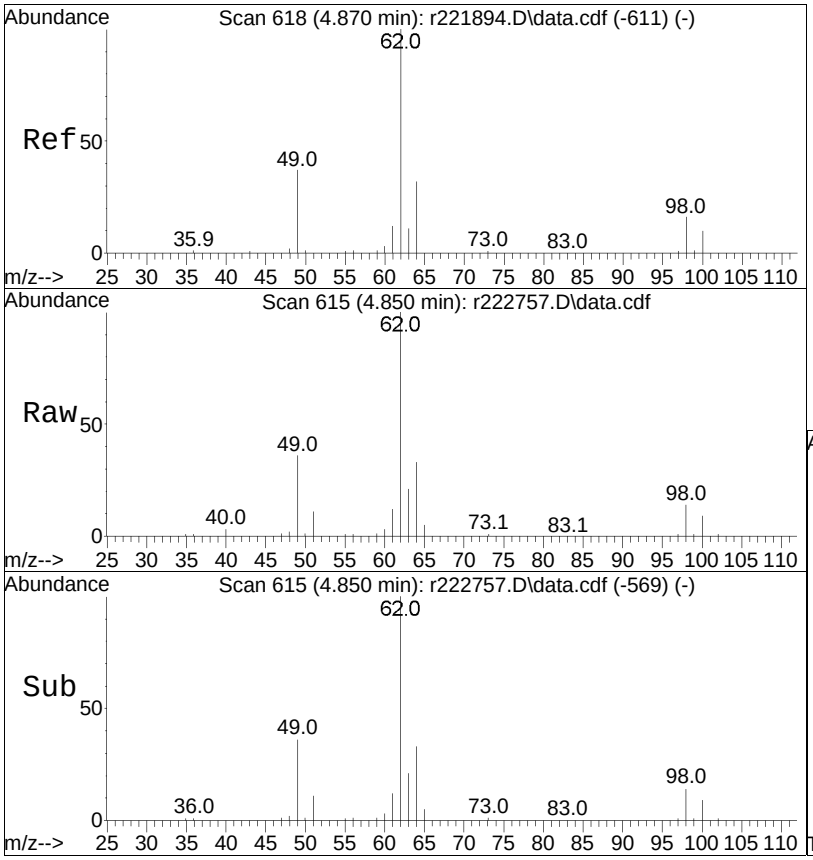


#40
Tetrahydrofuran
Concen: 9.83 ppbV
RT: 4.683 min Scan# 590
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 42 Resp: 218377

Ion	Ratio	Lower	Upper
42	100		
71	37.5	31.4	47.2
72	39.9	34.3	51.5

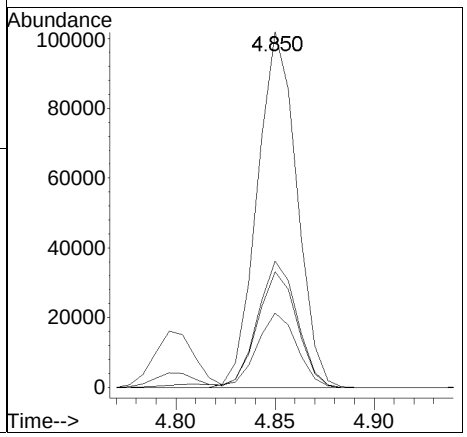


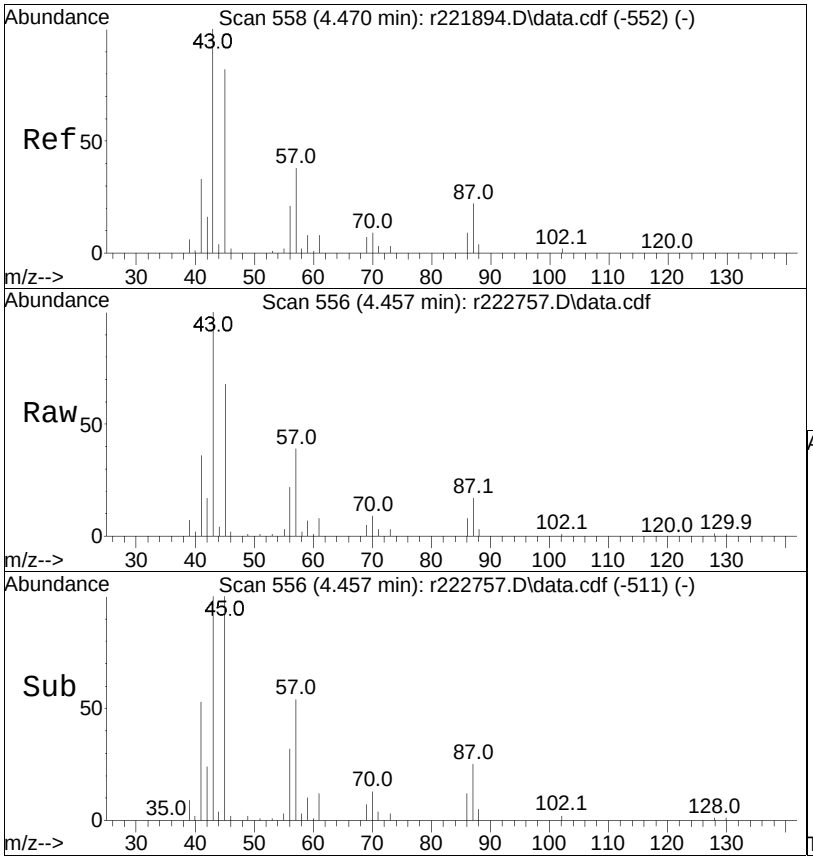


#42
1,2-dichloroethane
Concen: 10.08 ppbV
RT: 4.850 min Scan# 615
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 62 Resp: 141281

Ion	Ratio	Lower	Upper
62	100		
64	32.5	26.4	39.6
49	35.5	32.0	48.0
63	20.9	18.3	27.5

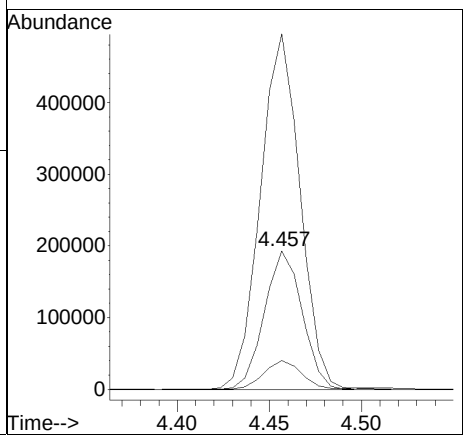


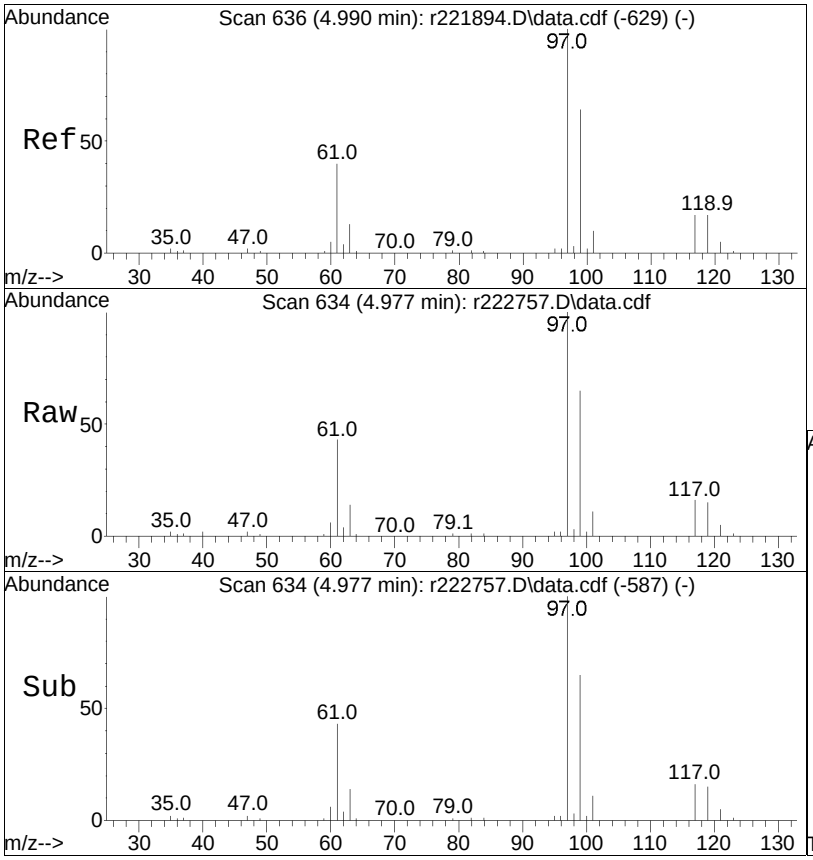


#44
hexane
Concen: 11.54 ppbV
RT: 4.457 min Scan# 556
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 57 Resp: 275334

Ion	Ratio	Lower	Upper
57	100		
43	257.0	210.8	316.2
86	20.9	17.9	26.9

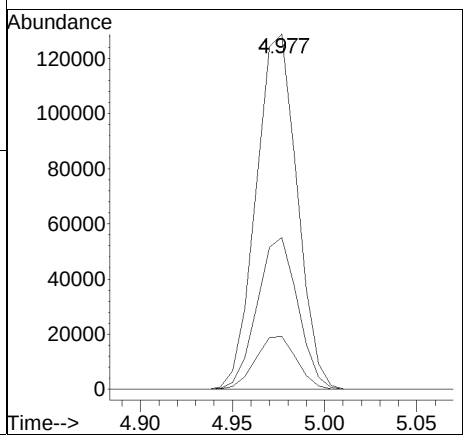


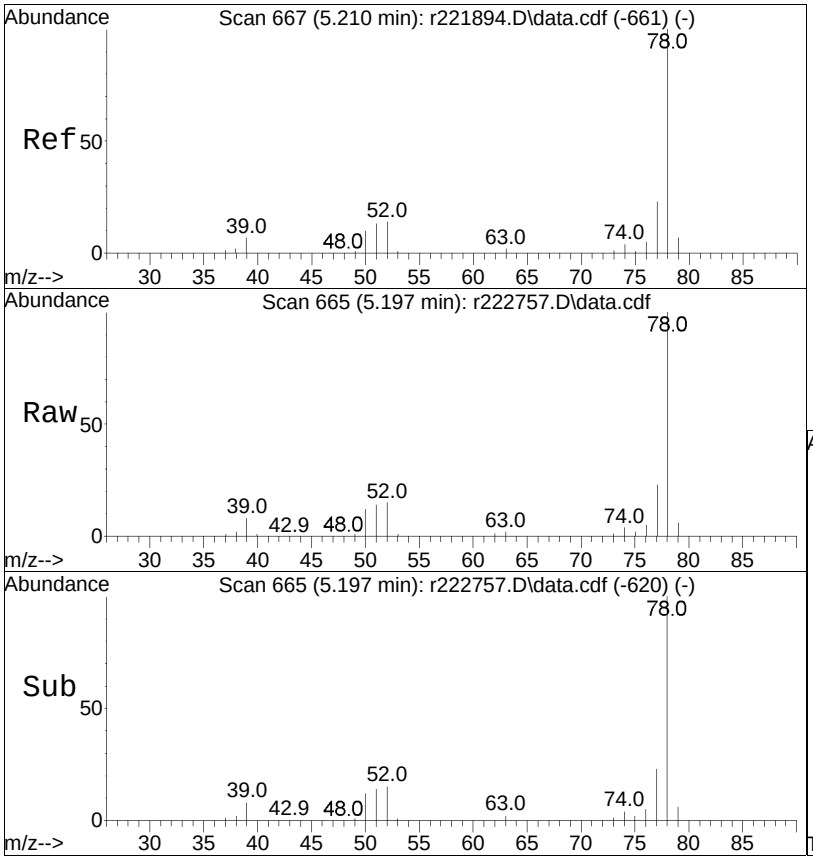


#48
1,1,1-trichloroethane
Concen: 10.71 ppbV
RT: 4.977 min Scan# 634
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 97 Resp: 199920

Ion	Ratio	Lower	Upper
97	100		
61	42.8	31.7	47.5
119	14.9	13.4	20.2

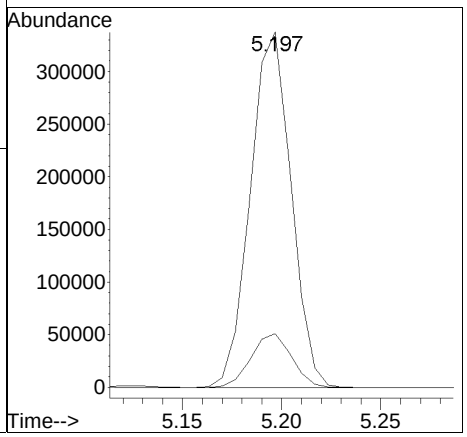


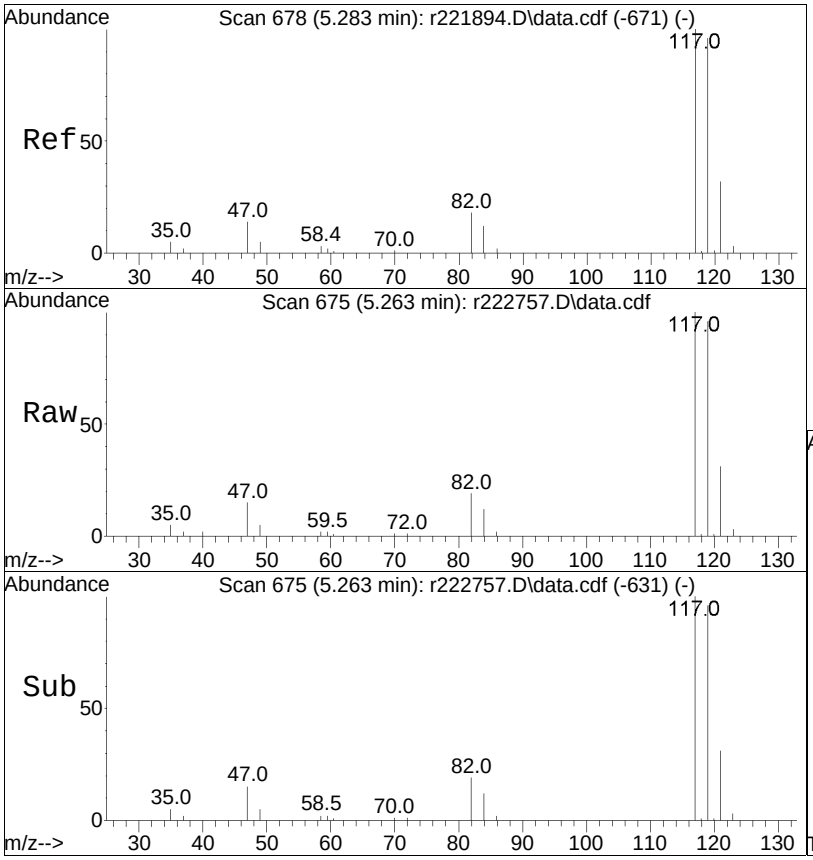


#50
benzene
Concen: 9.59 ppbV
RT: 5.197 min Scan# 665
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 78 Resp: 482719

Ion	Ratio	Lower	Upper
78	100		
52	15.2	11.3	16.9

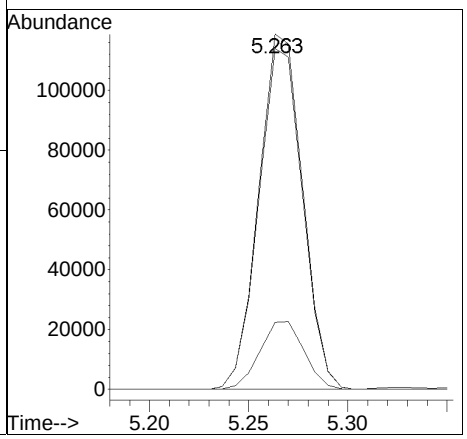


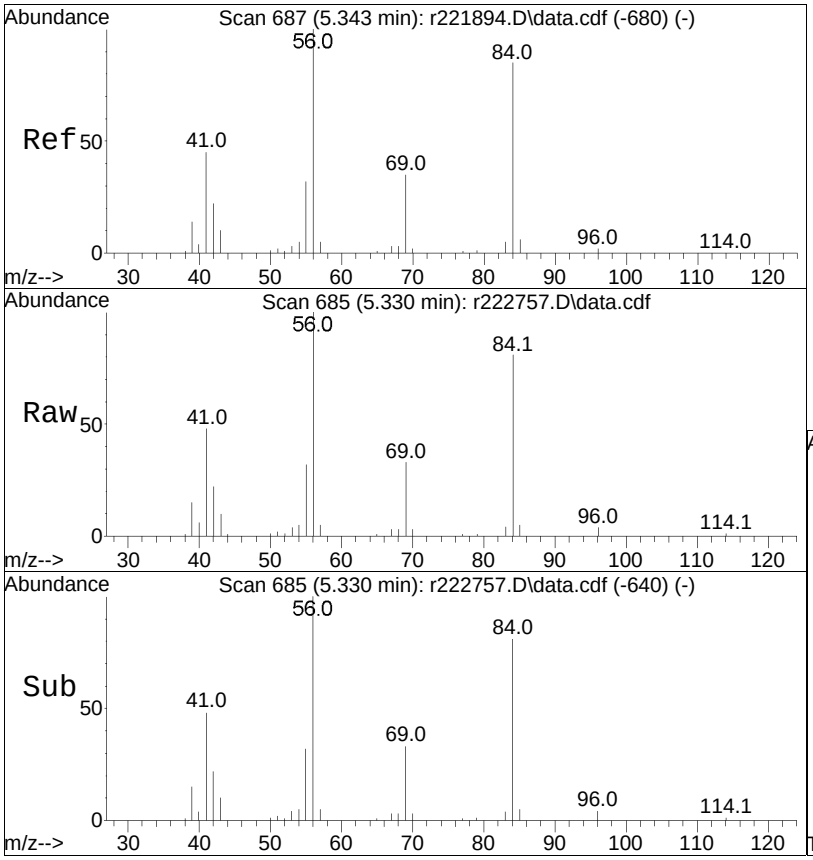


#52
carbon tetrachloride
Concen: 10.90 ppbV
RT: 5.263 min Scan# 675
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:117 Resp: 182560

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.5	114.7
82	18.8	14.7	22.1

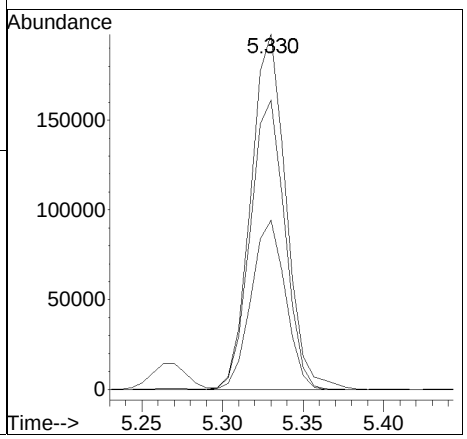


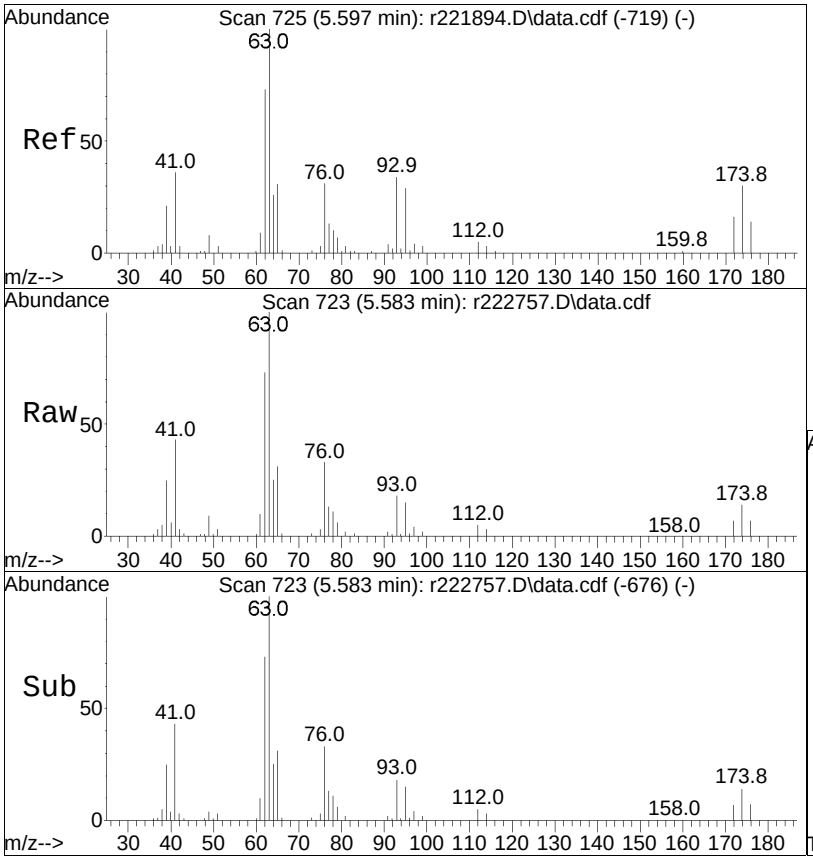


#53
cyclohexane
Concen: 10.99 ppbV
RT: 5.330 min Scan# 685
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 56 Resp: 300268

Ion	Ratio	Lower	Upper
56	100		
84	81.4	70.9	106.3
41	47.6	35.8	53.6

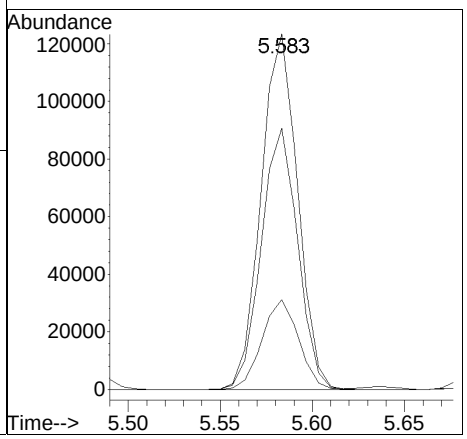


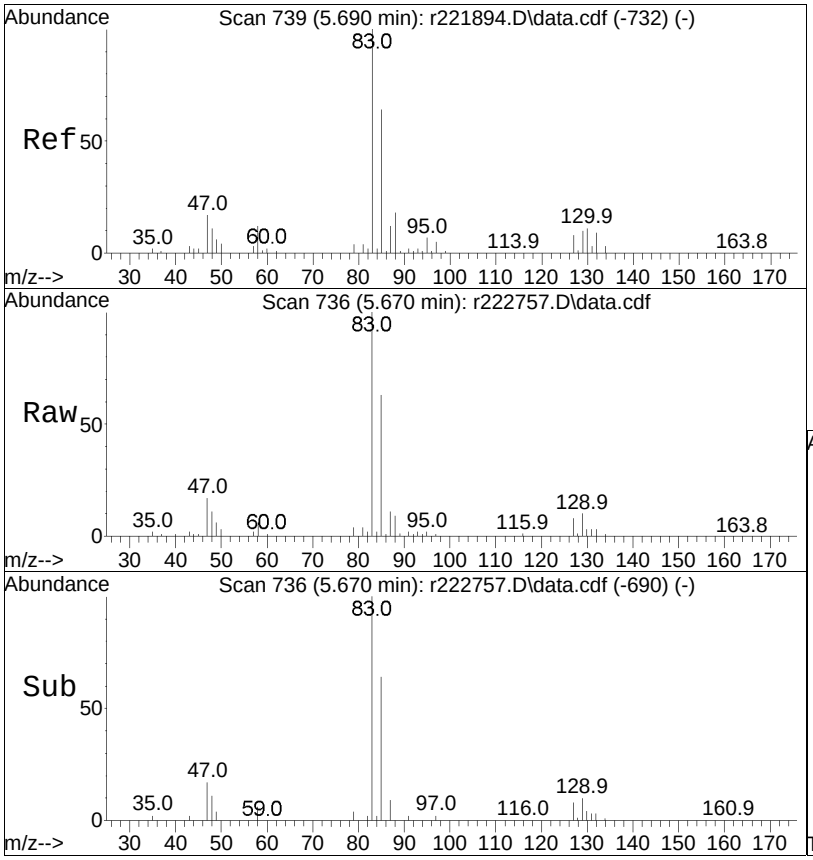


#56
1,2-dichloropropane
Concen: 10.35 ppbV
RT: 5.583 min Scan# 723
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 63 Resp: 170094

Ion	Ratio	Lower	Upper
63	100		
62	73.5	58.5	87.7
39	25.3	16.8	25.2#

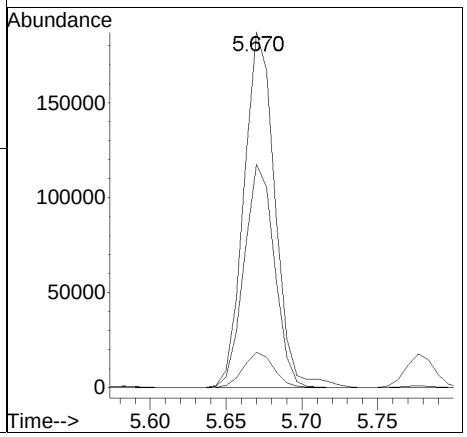


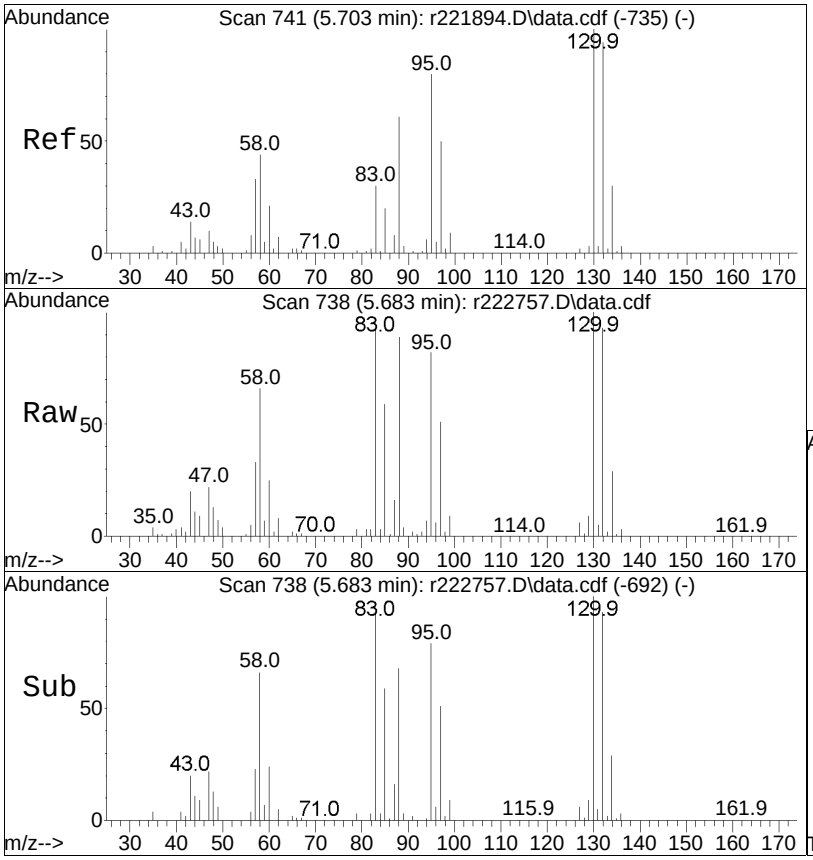


#57
bromodichloromethane
Concen: 12.17 ppbV
RT: 5.670 min Scan# 736
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 83 Resp: 266265

Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.4	77.0
129	9.9	8.2	12.2

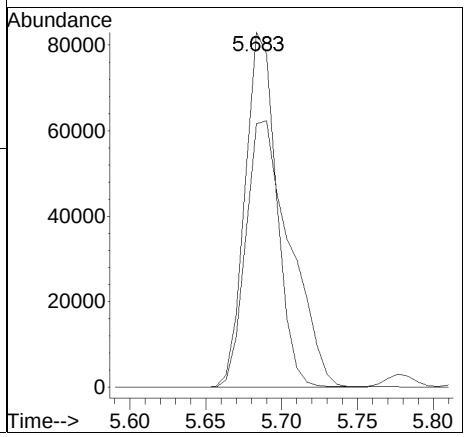


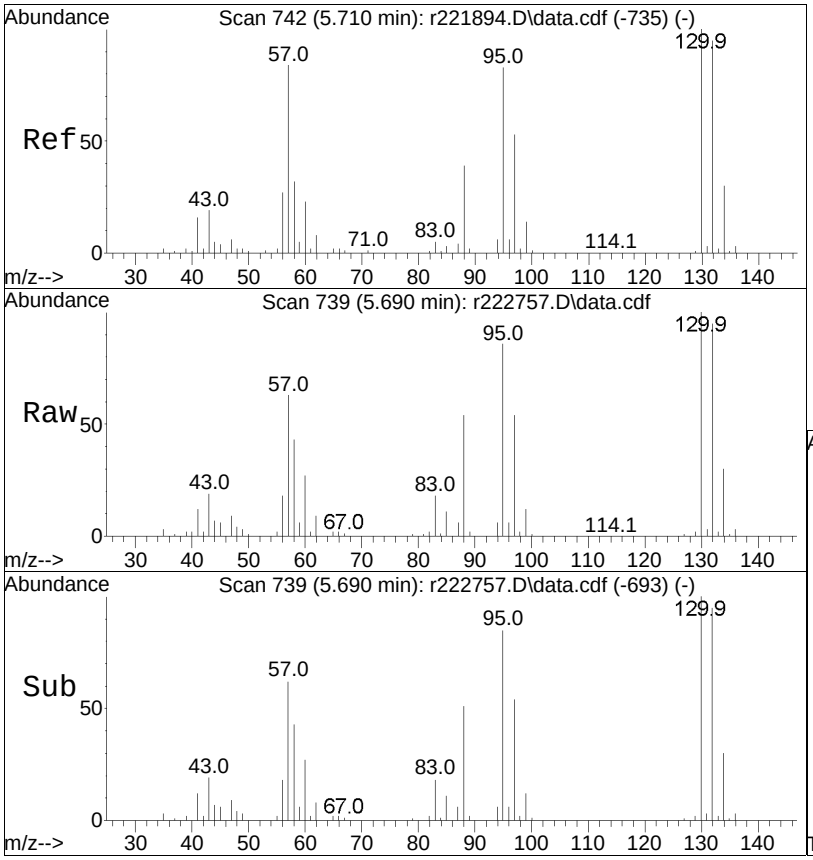


#58
1,4-dioxane
Concen: 10.92 ppbV
RT: 5.683 min Scan# 738
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 88 Resp: 120024

Ion	Ratio	Lower	Upper
88	100		
58	74.2	57.2	85.8

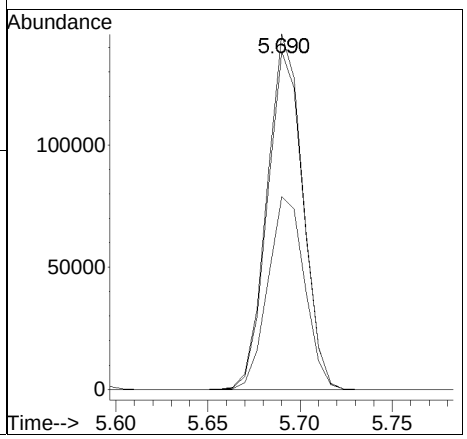


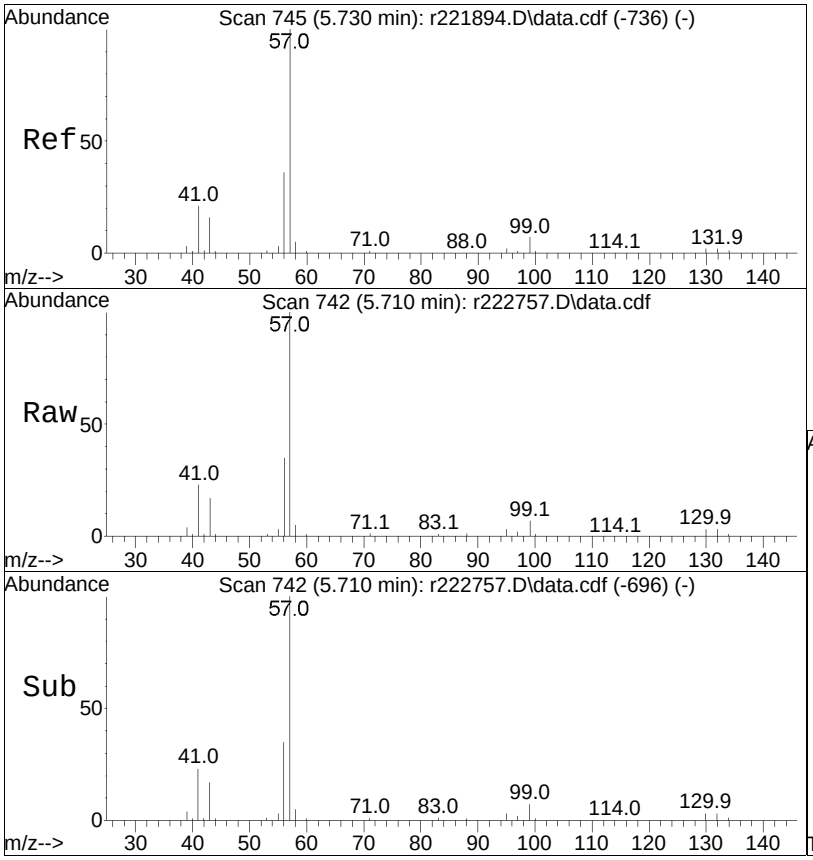


#59
trichloroethene
Concen: 9.86 ppbV
RT: 5.690 min Scan# 739
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:130 Resp: 196287

Ion	Ratio	Lower	Upper
130	100		
132	95.1	75.9	113.9
97	54.2	42.5	63.7

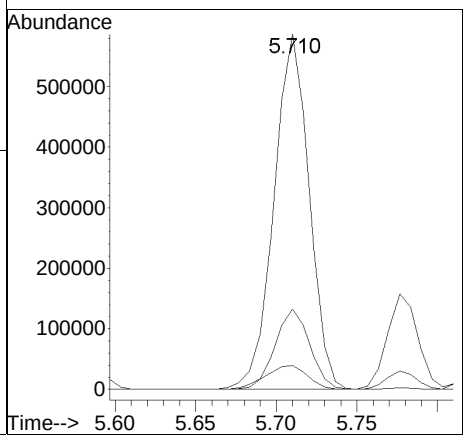


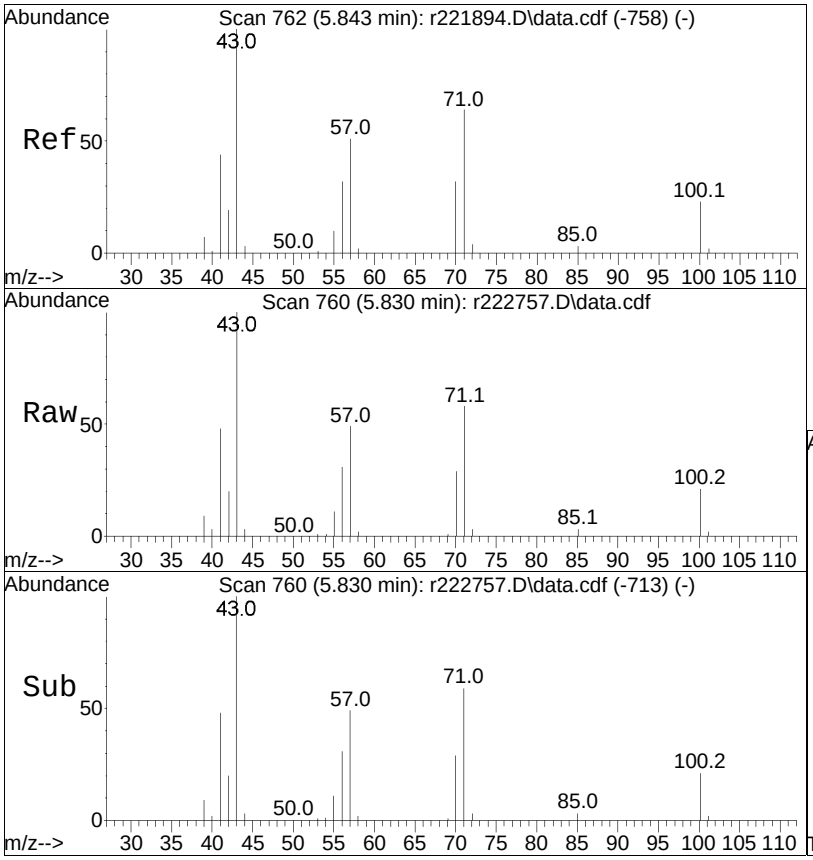


#60
2,2,4-trimethylpentane
Concen: 11.70 ppbV
RT: 5.710 min Scan# 742
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 57 Resp: 890817

Ion	Ratio	Lower	Upper
57	100		
99	6.7	5.7	8.5
41	22.6	16.9	25.3

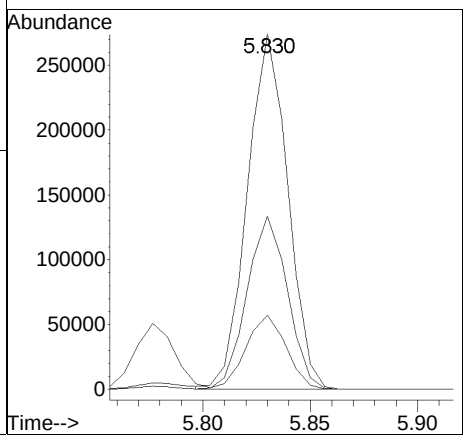


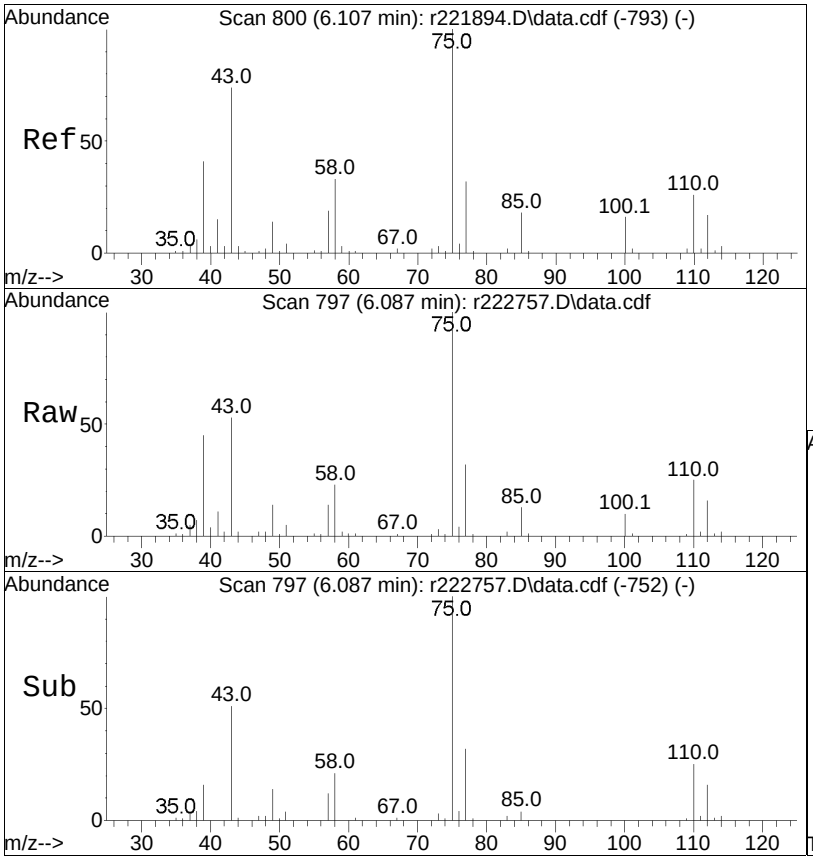


#62
heptane
Concen: 11.96 ppbV
RT: 5.830 min Scan# 760
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 43 Resp: 359917

Ion	Ratio	Lower	Upper
43	100		
57	48.8	40.4	60.6
100	20.9	19.0	28.6

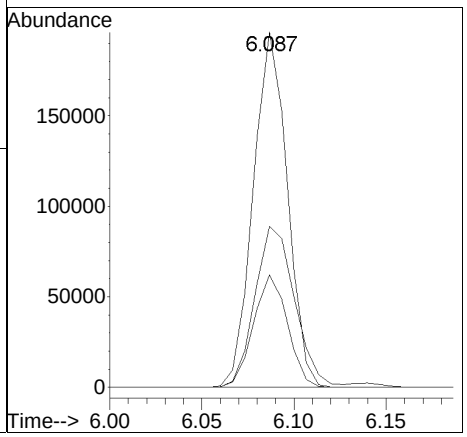


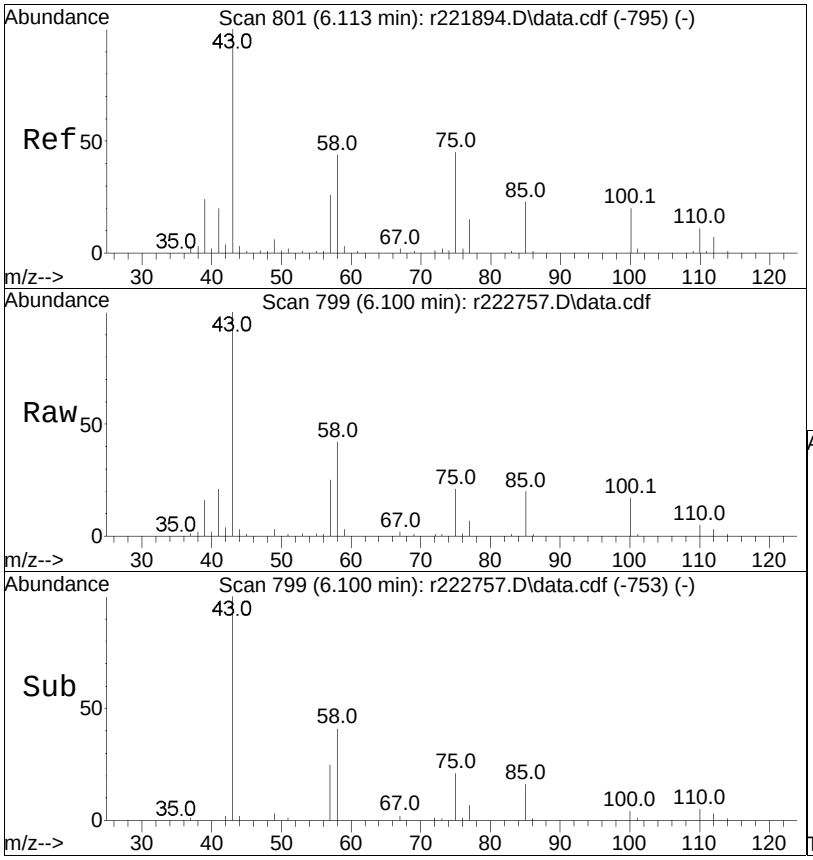


#63
cis-1,3-dichloropropene
Concen: 10.51 ppbV
RT: 6.087 min Scan# 797
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 75 Resp: 252162

Ion	Ratio	Lower	Upper
75	100		
39	45.3	33.2	49.8
77	31.7	25.7	38.5

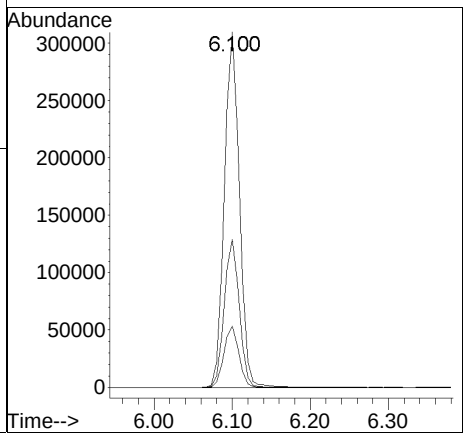


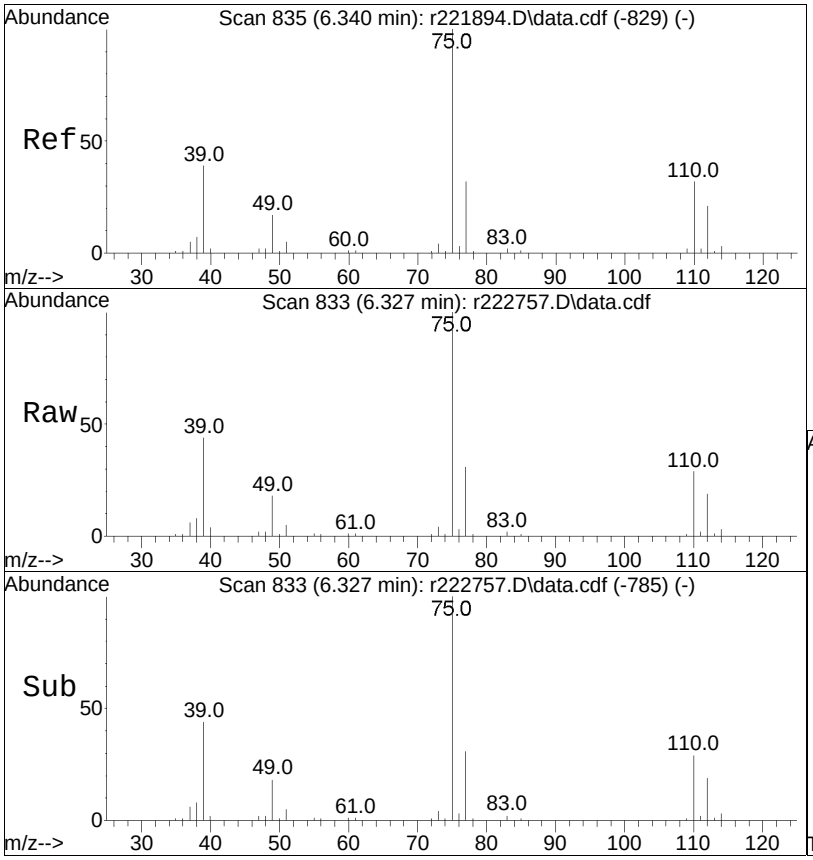


#64
4-methyl-2-pentanone
Concen: 12.40 ppbV
RT: 6.100 min Scan# 799
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 43 Resp: 414973

Ion	Ratio	Lower	Upper
43	100		
58	41.7	34.9	52.3
100	17.3	16.1	24.1

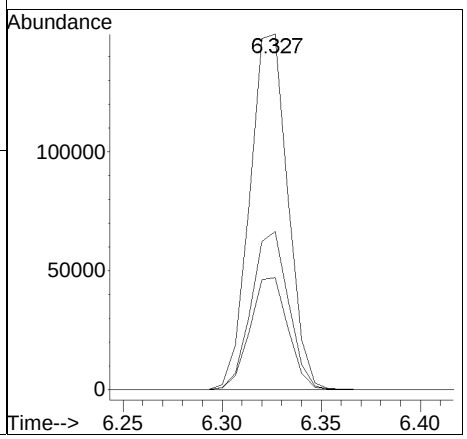


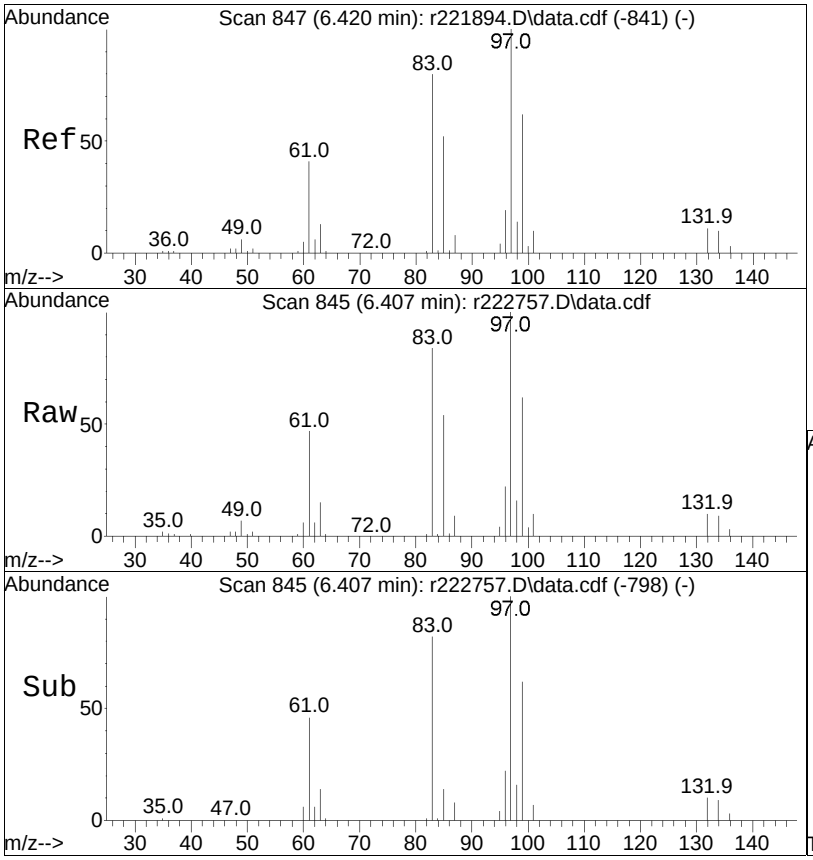


#65
trans-1,3-dichloropropene
Concen: 10.10 ppbV
RT: 6.327 min Scan# 833
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 75 Resp: 198884

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.5	38.3
39	44.4	30.8	46.2

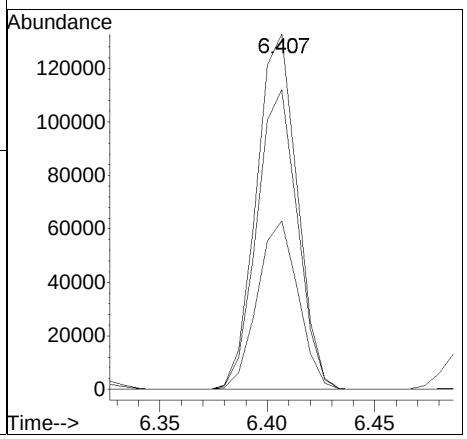


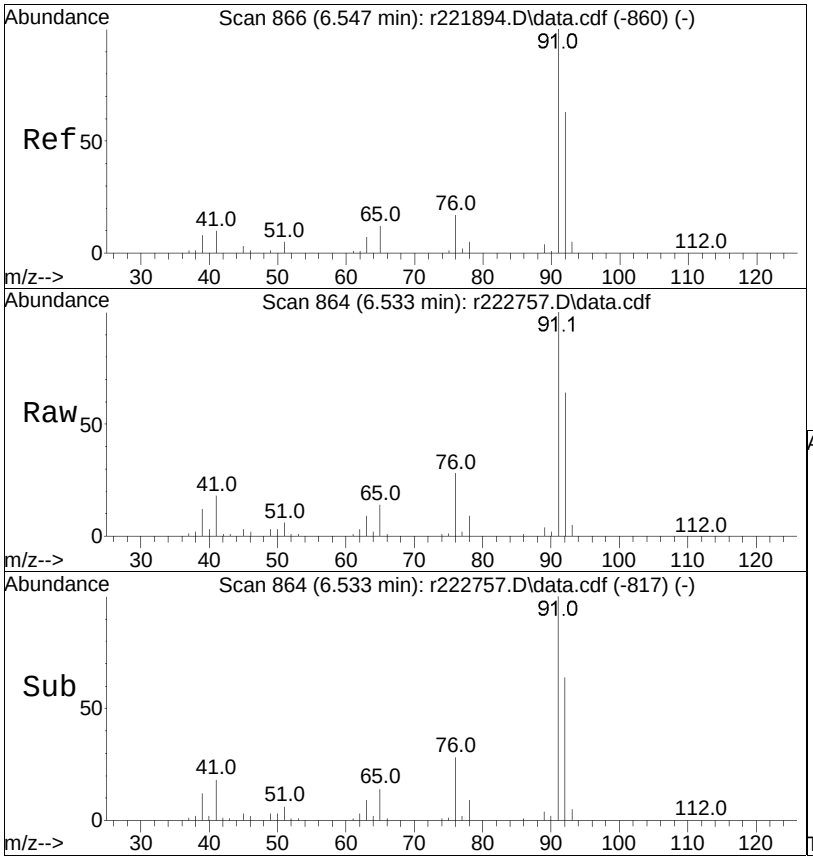


#66
1,1,2-trichloroethane
Concen: 9.89 ppbV
RT: 6.407 min Scan# 845
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 97 Resp: 176016

Ion	Ratio	Lower	Upper
97	100		
83	84.4	64.0	96.0
61	47.5	32.5	48.7

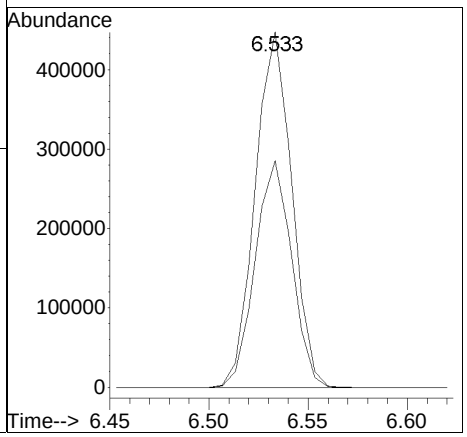


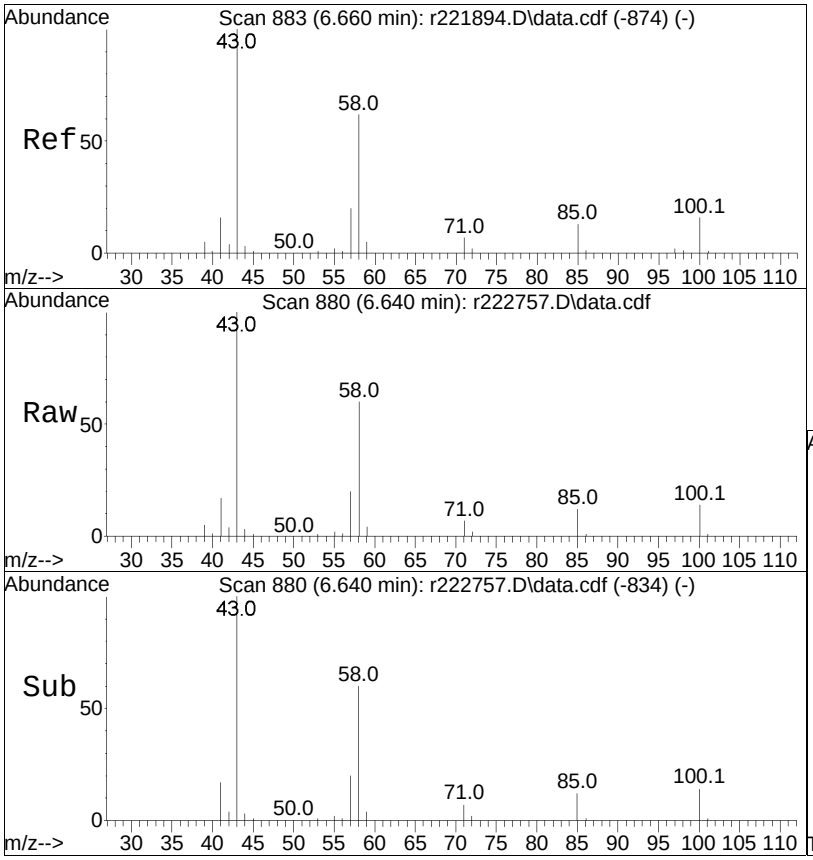


#68
toluene
Concen: 7.99 ppbV
RT: 6.533 min Scan# 864
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 91 Resp: 572566

Ion	Ratio	Lower	Upper
91	100		
92	63.8	50.7	76.1

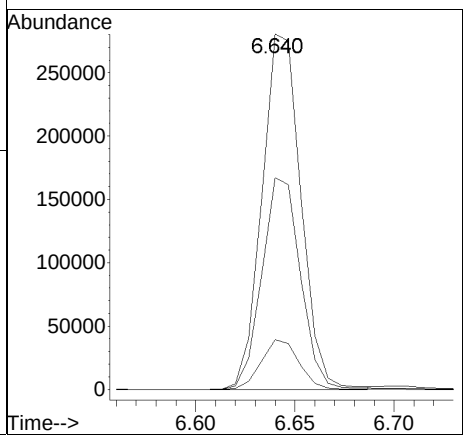


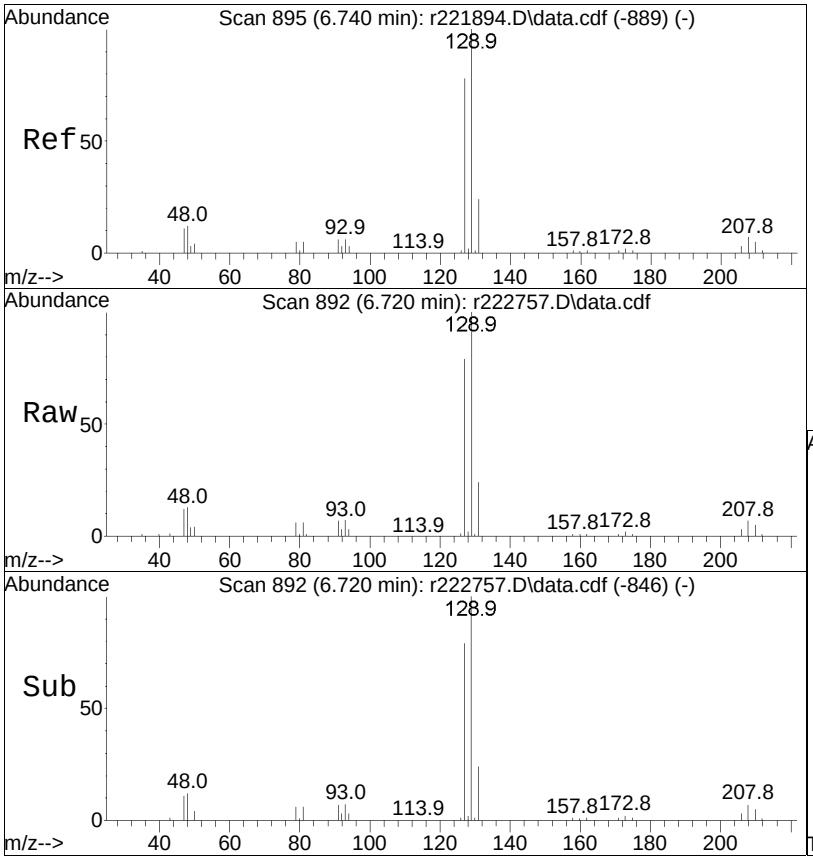


#72
2-hexanone
Concen: 9.12 ppbV
RT: 6.640 min Scan# 880
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 43 Resp: 382988

Ion	Ratio	Lower	Upper
43	100		
58	59.6	49.2	73.8
100	14.0	12.4	18.6

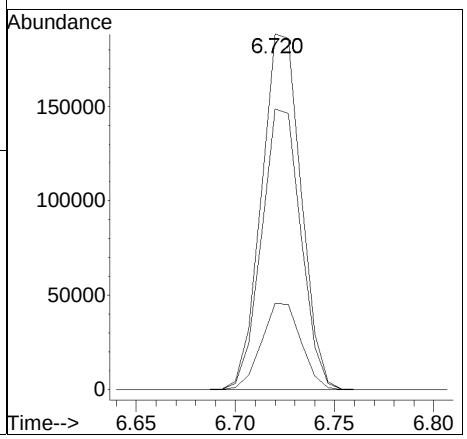


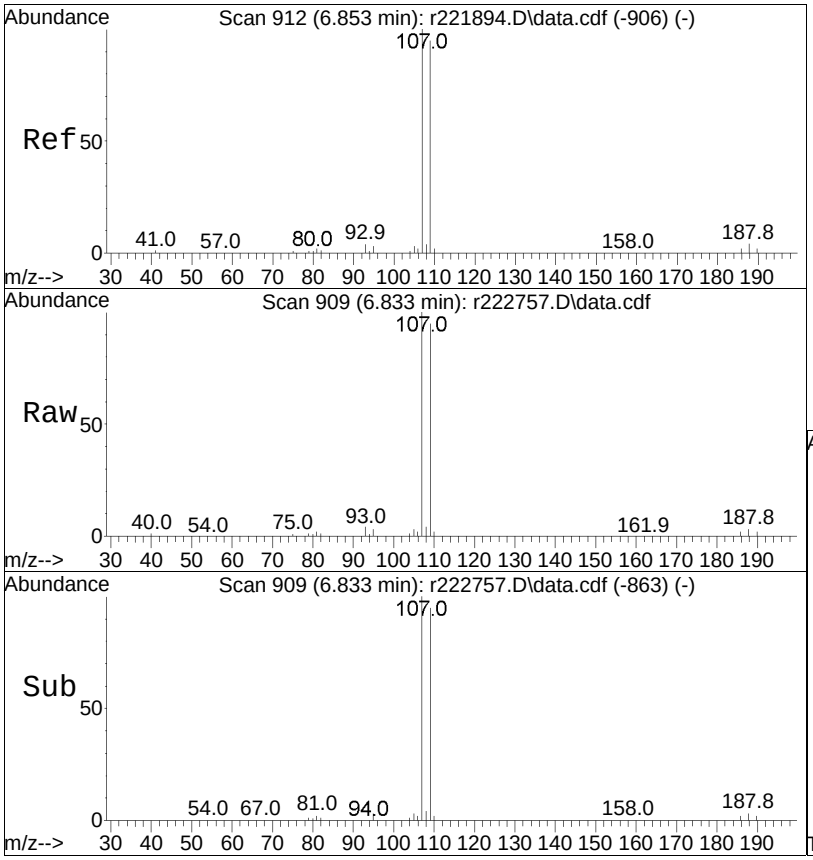


#74
dibromochloromethane
Concen: 9.18 ppbV
RT: 6.720 min Scan# 892
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:129 Resp: 261503

Ion	Ratio	Lower	Upper
129	100		
127	78.9	62.3	93.5
131	24.2	19.3	28.9

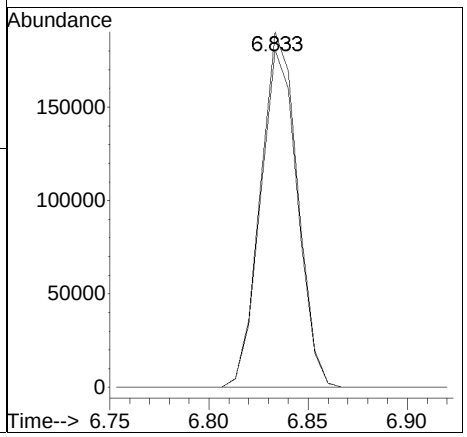


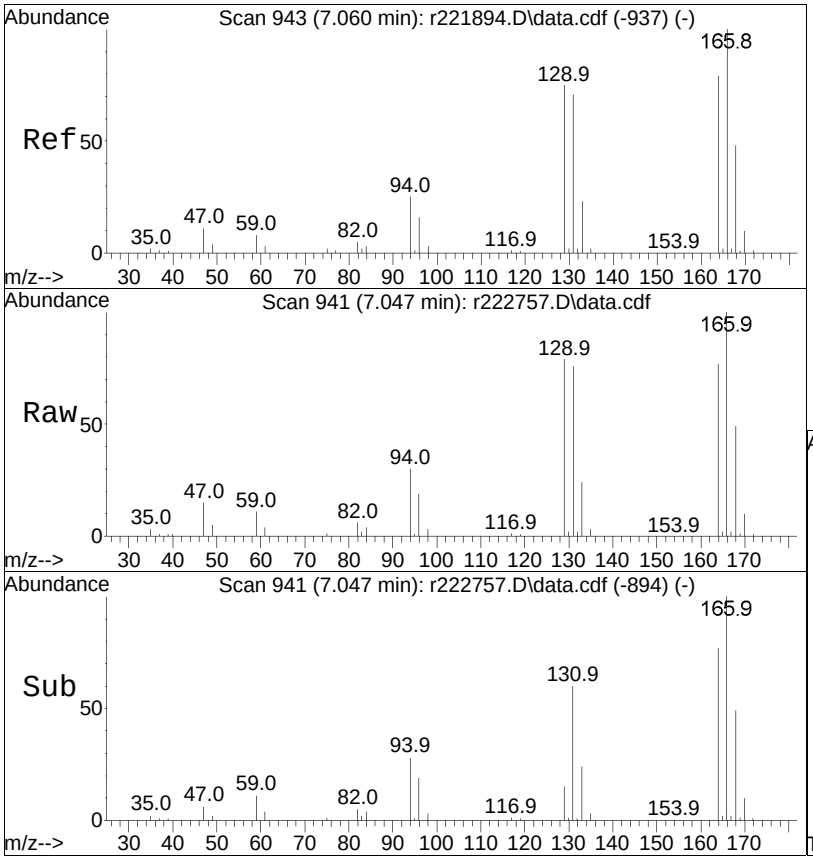


#75
1,2-dibromoethane
Concen: 7.85 ppbV
RT: 6.833 min Scan# 909
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:107 Resp: 247734

Ion	Ratio	Lower	Upper
107	100		
109	95.0	76.1	114.1

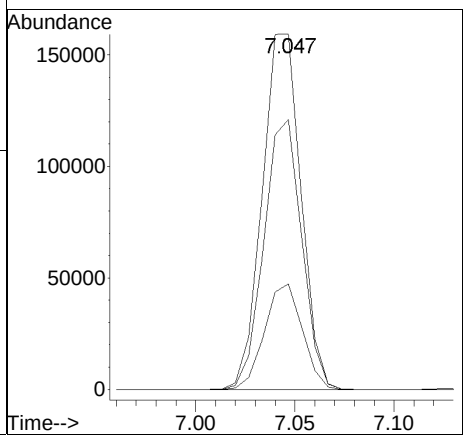


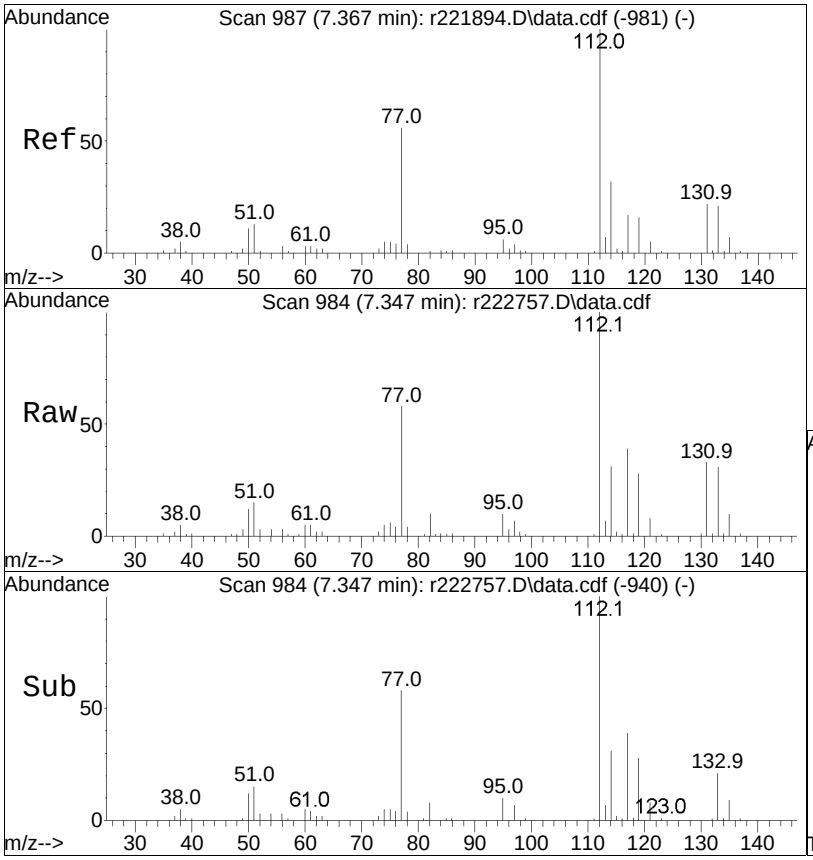


#78
tetrachloroethene
Concen: 7.80 ppbV
RT: 7.047 min Scan# 941
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:166 Resp: 216764

Ion	Ratio	Lower	Upper
166	100		
131	76.0	56.9	85.3
94	29.7	19.8	29.8

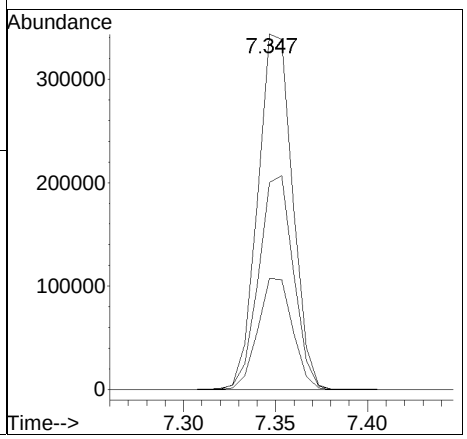


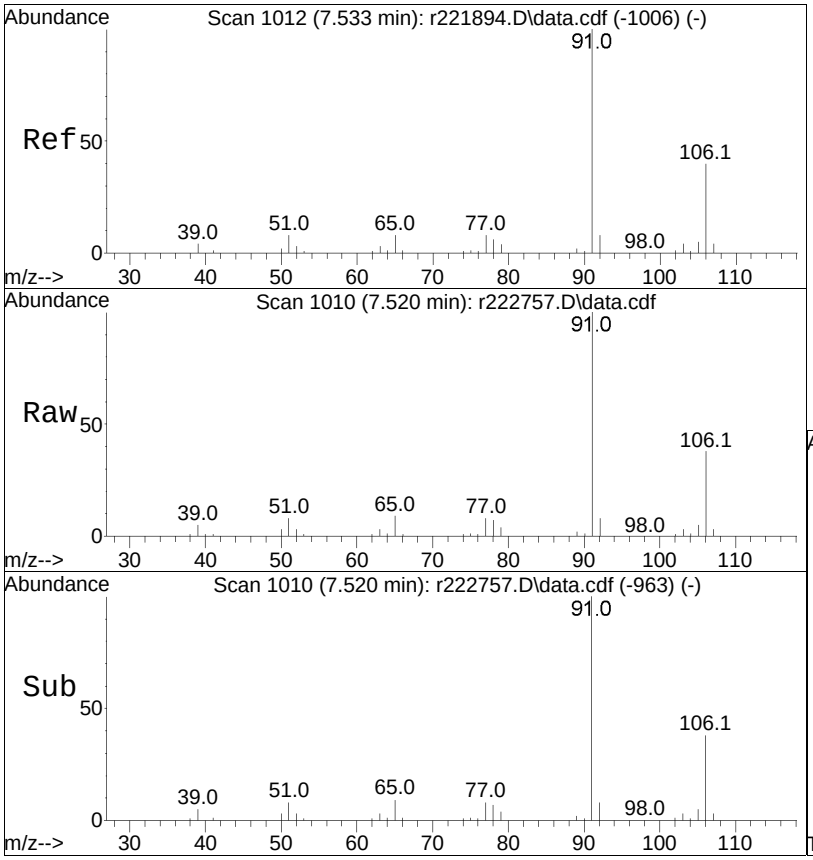


#80
chlorobenzene
Concen: 8.14 ppbV
RT: 7.347 min Scan# 984
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:112 Resp: 450907

Ion	Ratio	Lower	Upper
112	100		
114	31.3	25.8	38.6
77	58.3	45.0	67.6

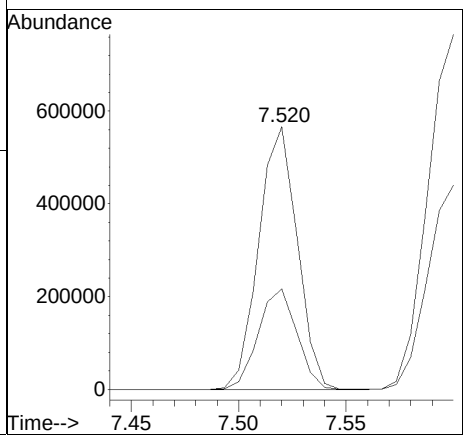


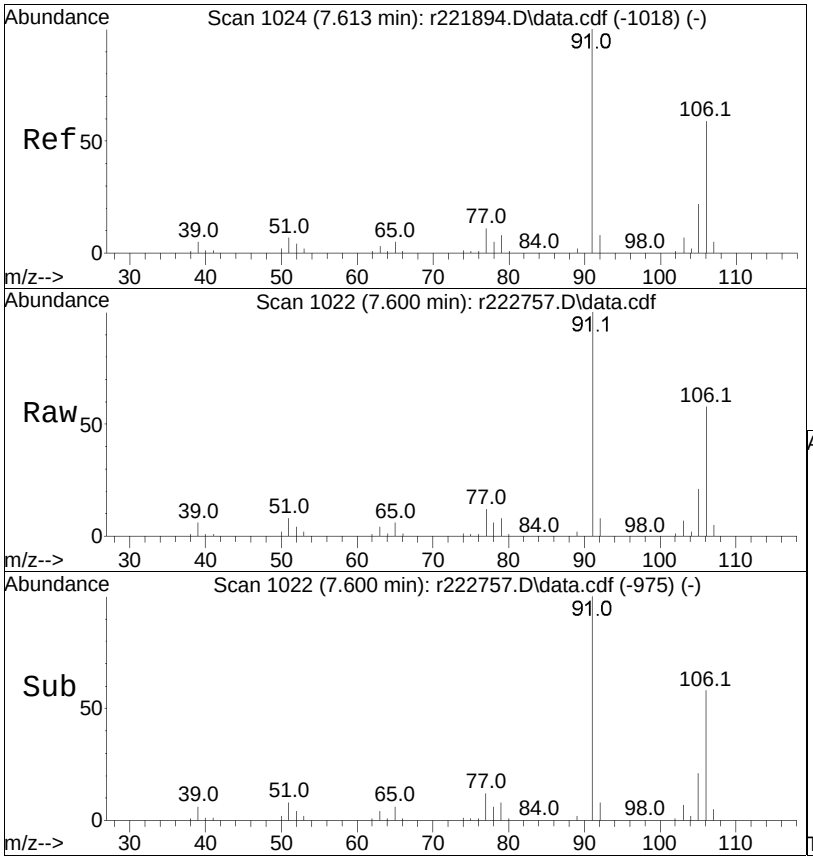


#81
ethylbenzene
Concen: 8.16 ppbV
RT: 7.520 min Scan# 1010
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 91 Resp: 706787

Ion	Ratio	Lower	Upper
91	100		
106	38.2	31.7	47.5

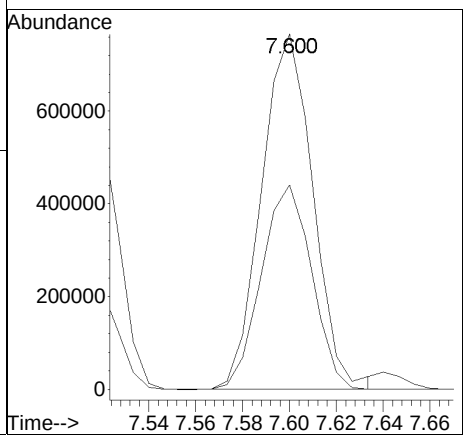


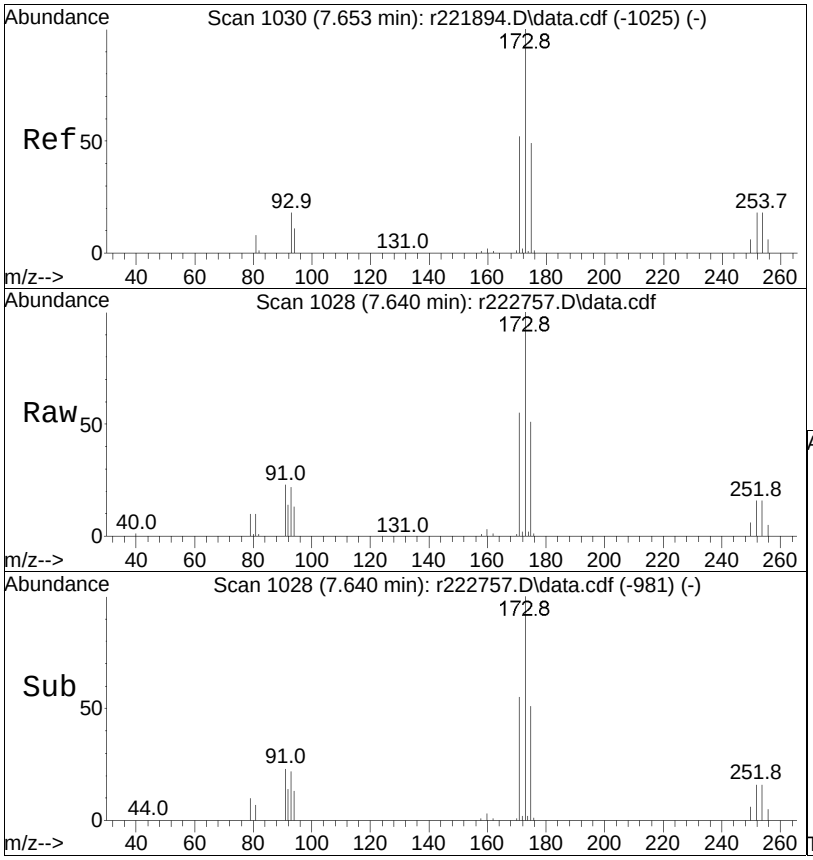


#83
m+p-xylene
Concen: 17.32 ppbV
RT: 7.600 min Scan# 1022
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 91 Resp: 1168178

Ion	Ratio	Lower	Upper
91	100		
106	57.6	47.4	71.2

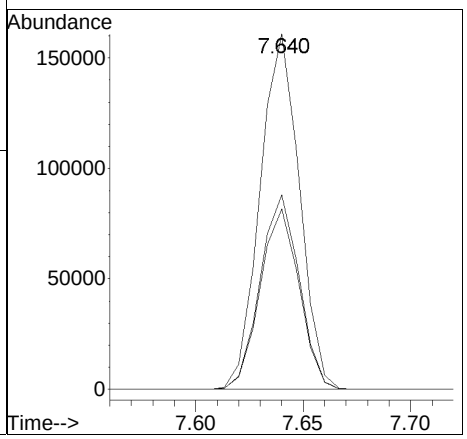


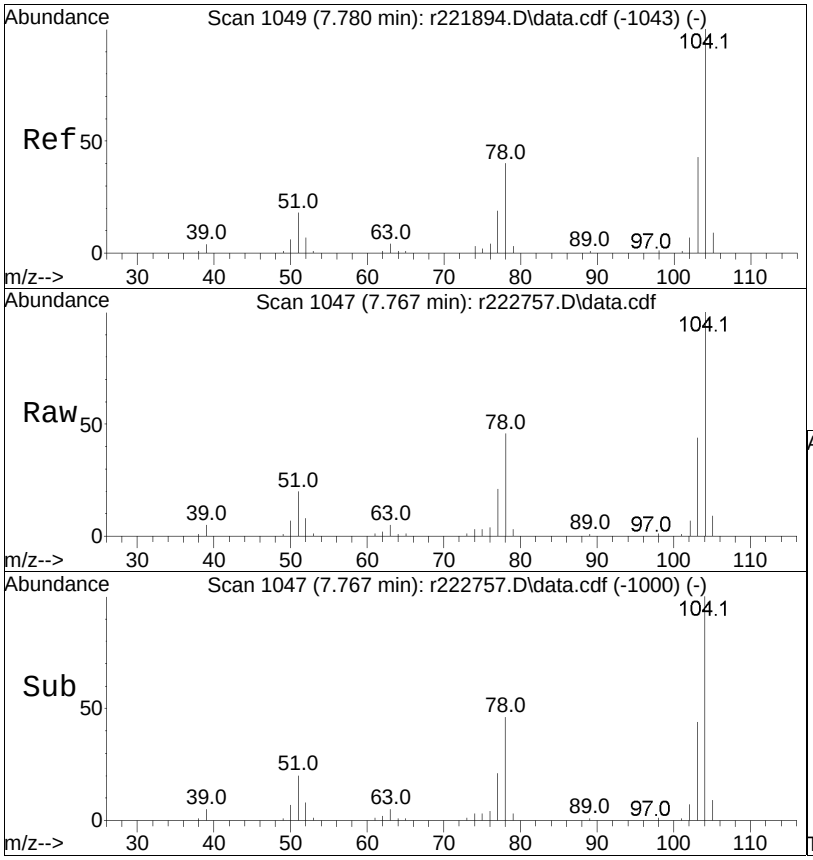


#84
bromoform
Concen: 8.78 ppbV
RT: 7.640 min Scan# 1028
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:173 Resp: 205068

Ion	Ratio	Lower	Upper
173	100		
175	50.8	38.8	58.2
171	54.7	41.7	62.5

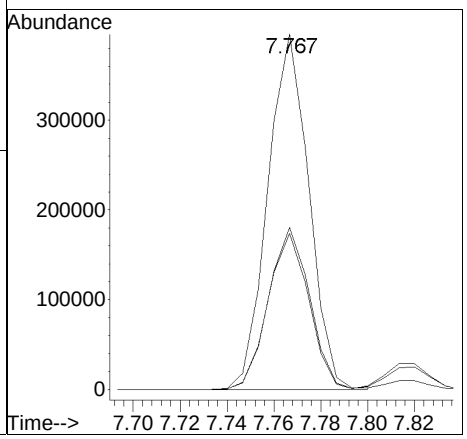


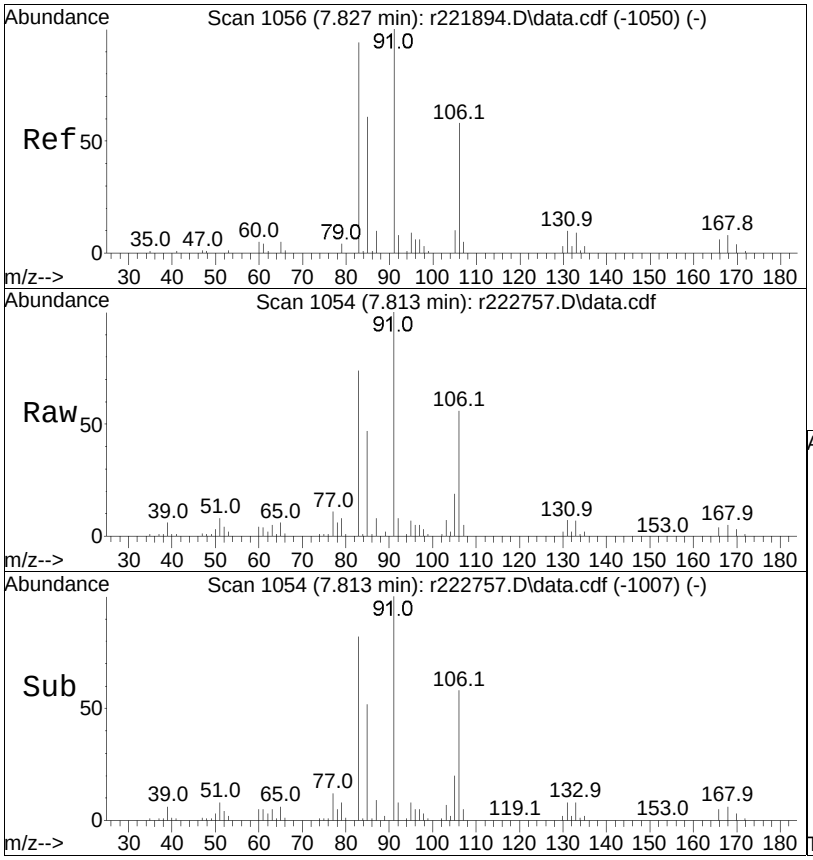


#85
styrene
Concen: 7.97 ppbV
RT: 7.767 min Scan# 1047
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:104 Resp: 482027

Ion	Ratio	Lower	Upper
104	100		
103	43.9	34.3	51.5
78	45.6	32.3	48.5

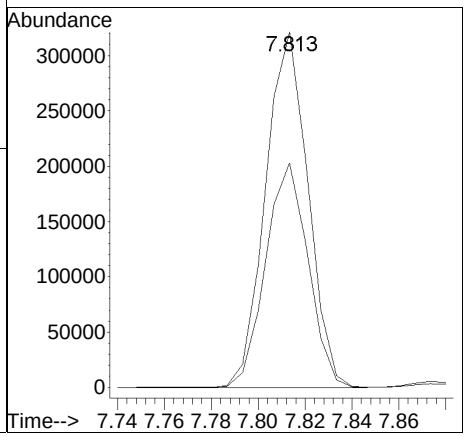


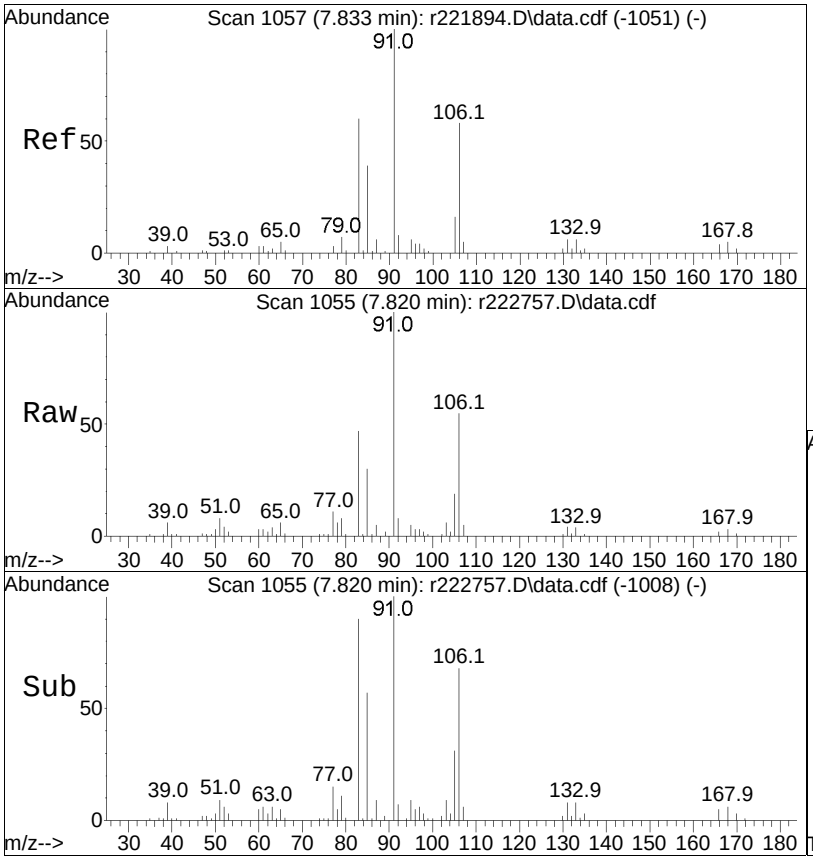


#86
1,1,2,2-tetrachloroethane
Concen: 8.93 ppbV
RT: 7.813 min Scan# 1054
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 83 Resp: 403805

Ion	Ratio	Lower	Upper
83	100		
85	63.2	51.8	77.8

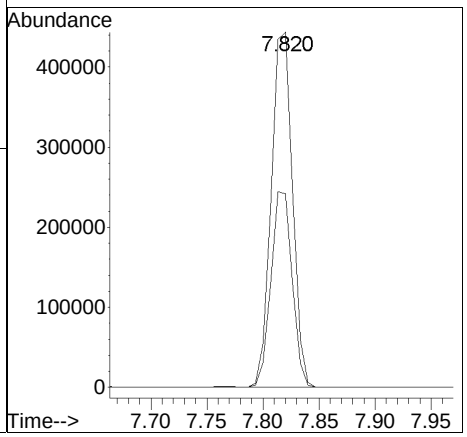


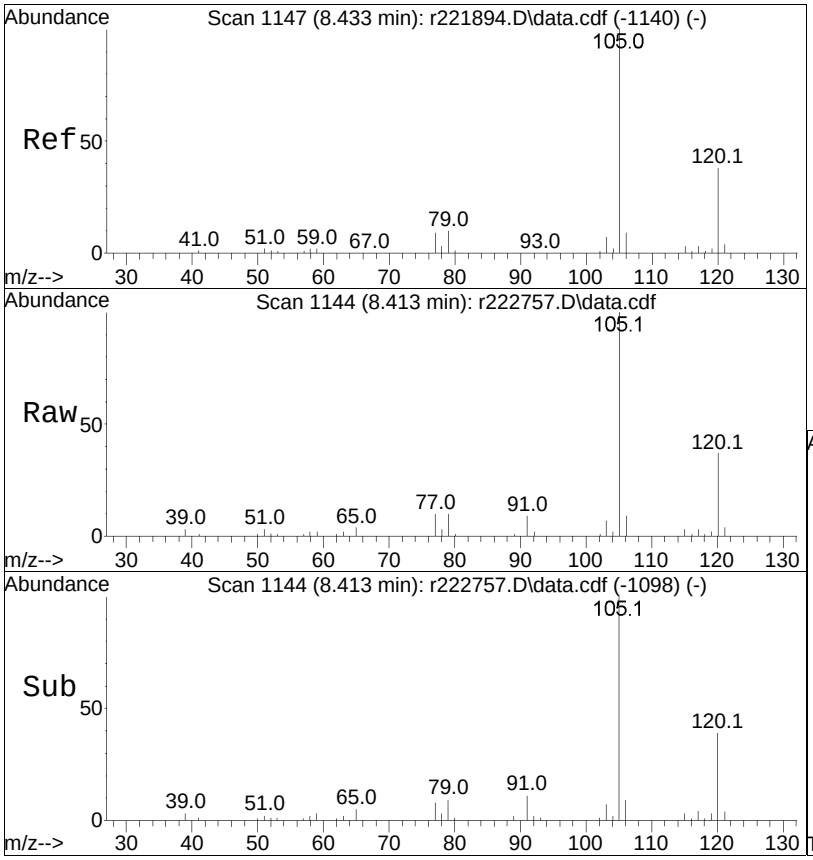


#87
o-xylene
Concen: 8.90 ppbV
RT: 7.820 min Scan# 1055
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 91 Resp: 586101

Ion	Ratio	Lower	Upper
91	100		
106	54.5	46.2	69.4

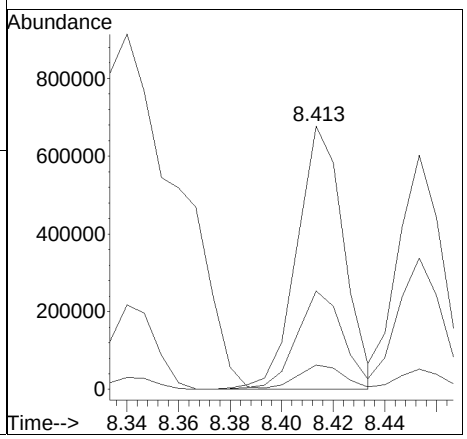


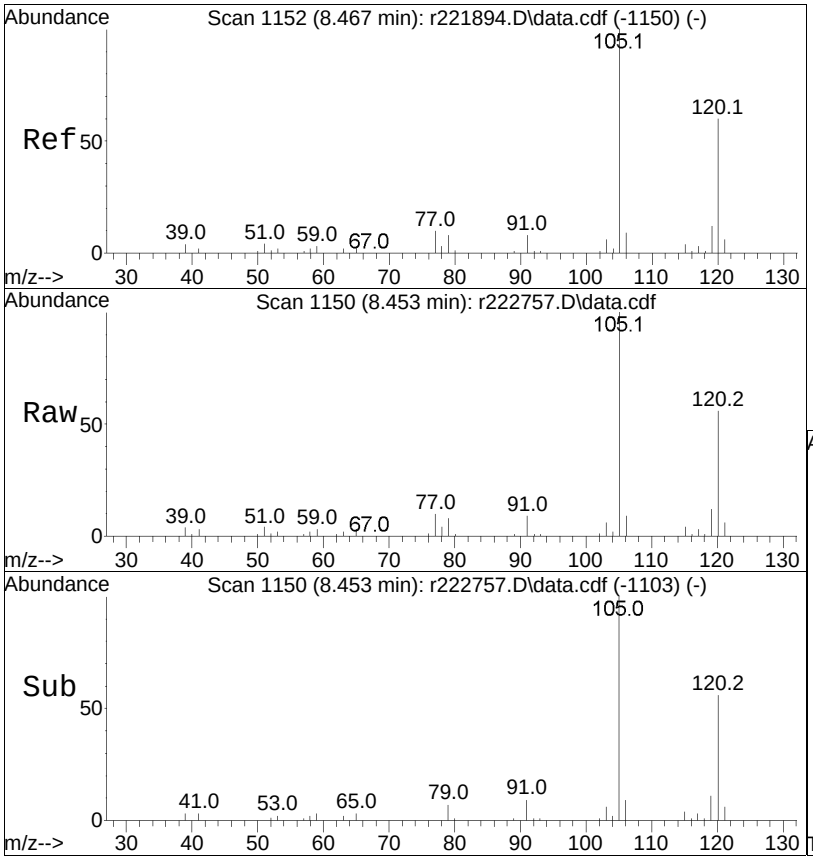


#96
4-ethyl toluene
Concen: 8.80 ppbV
RT: 8.413 min Scan# 1144
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:105 Resp: 856546

Ion	Ratio	Lower	Upper
105	100		
120	37.4	30.7	46.1
91	9.3	7.2	10.8

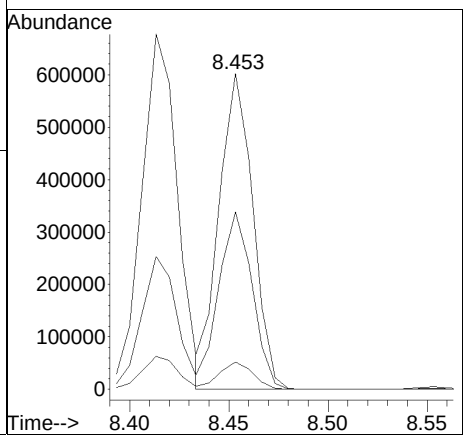


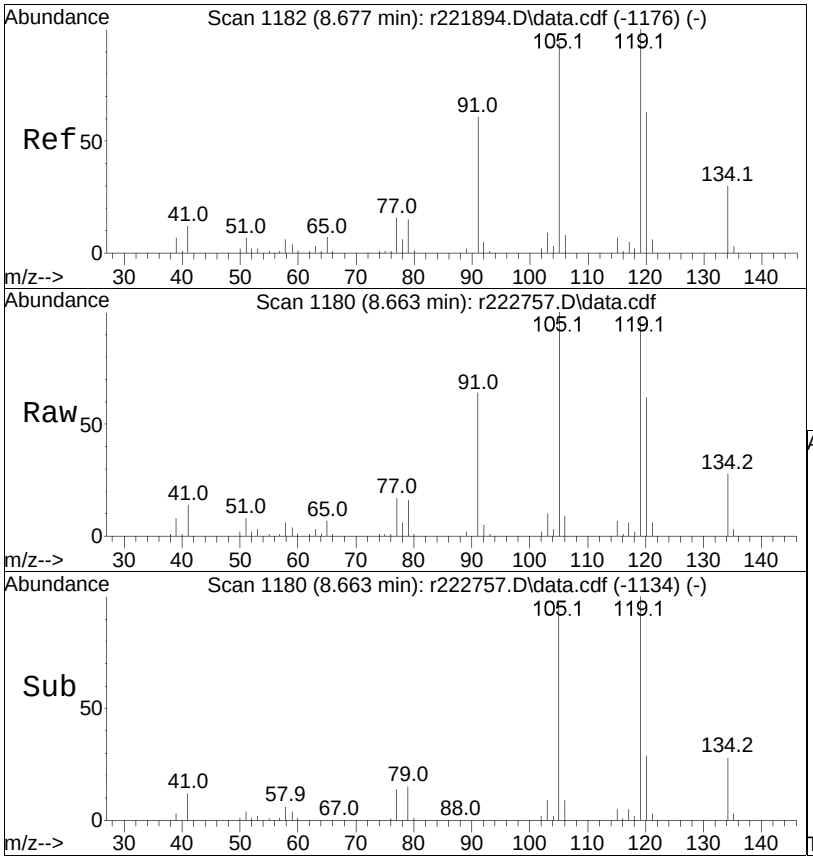


#97
1,3,5-trimethylbenzene
Concen: 8.97 ppbV
RT: 8.453 min Scan# 1150
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:105 Resp: 714825

Ion	Ratio	Lower	Upper
105	100		
120	56.2	47.8	71.8
91	8.7	6.6	10.0

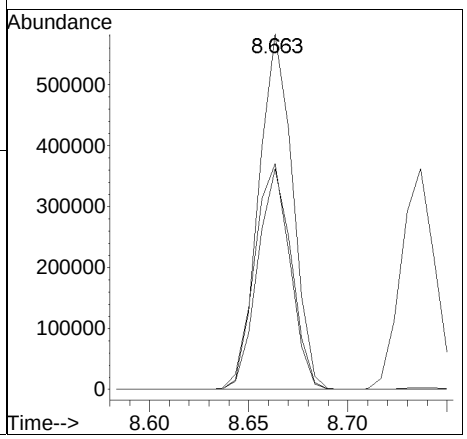


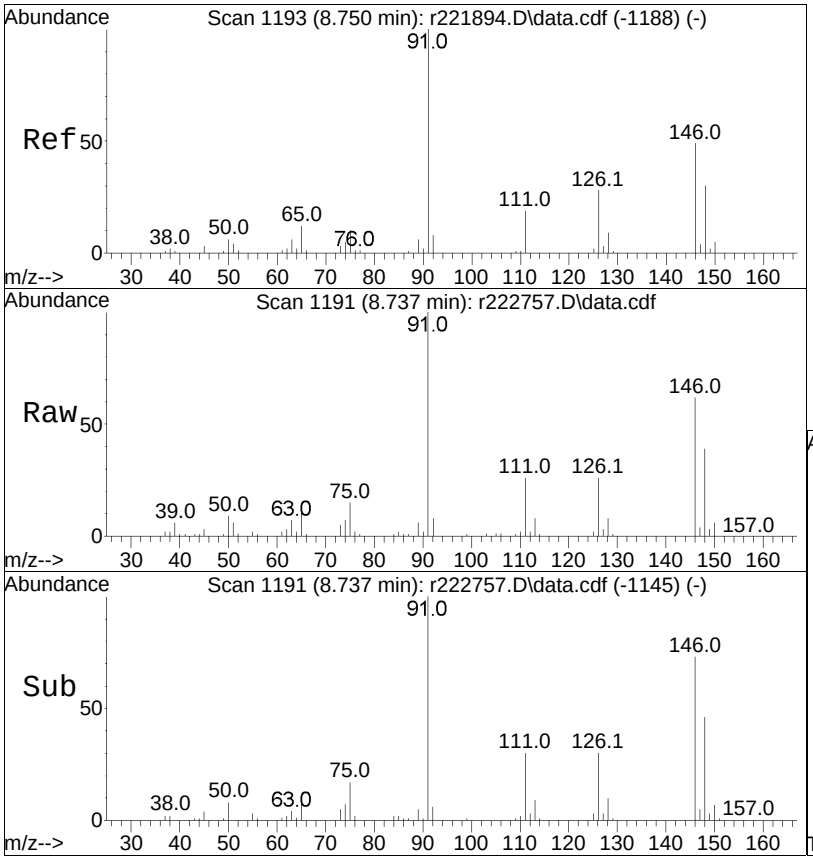


#99
1,2,4-trimethylbenzene
Concen: 9.11 ppbV
RT: 8.663 min Scan# 1180
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:105 Resp: 693284

Ion	Ratio	Lower	Upper
105	100		
120	62.1	53.8	80.8
91	63.5	52.2	78.2

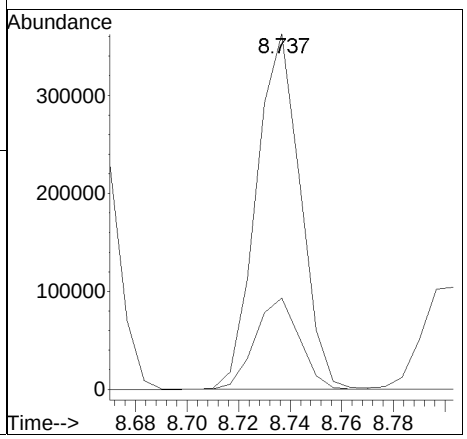


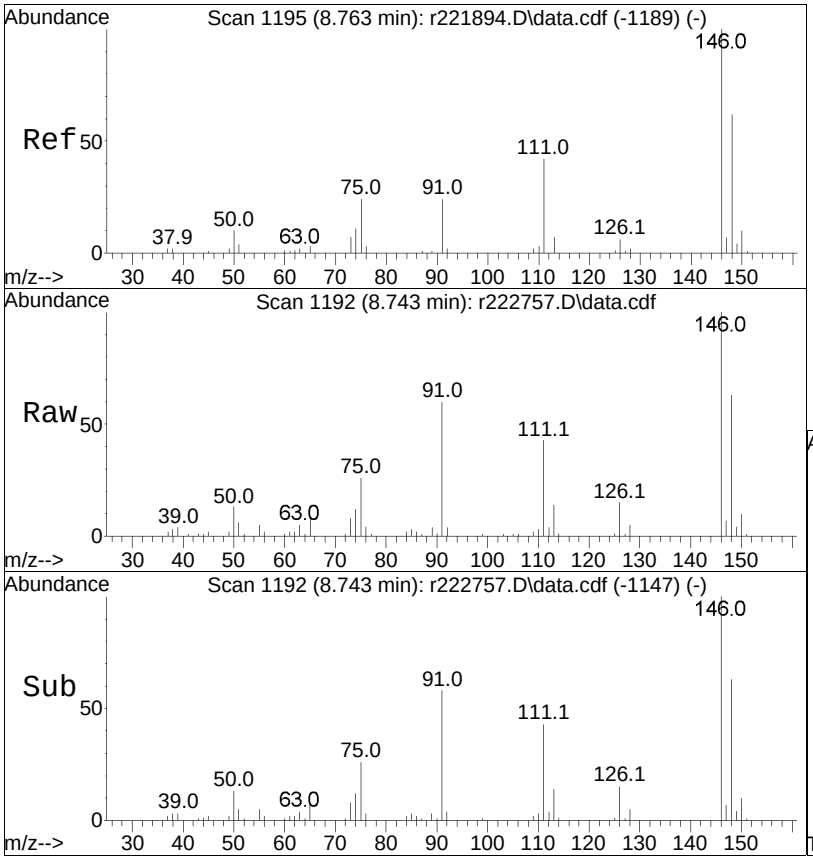


#101
Benzyl Chloride
Concen: 9.43 ppbV
RT: 8.737 min Scan# 1191
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion: 91 Resp: 430931

Ion	Ratio	Lower	Upper
91	100		
126	25.7	22.4	33.6

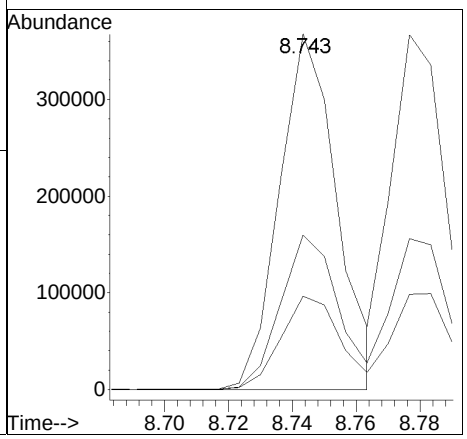


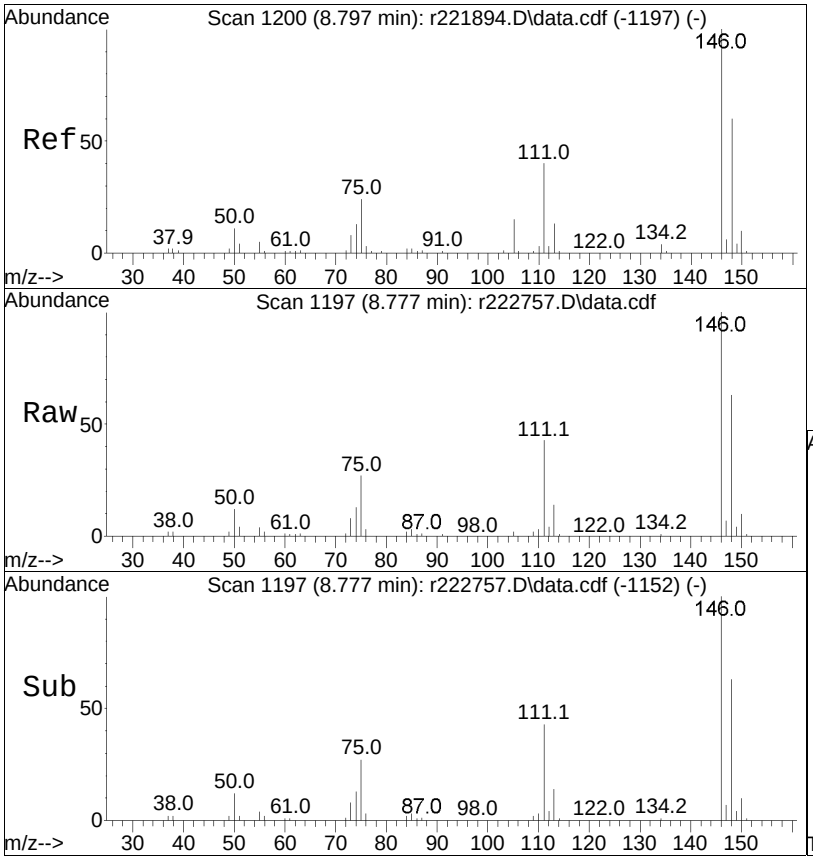


#102
1,3-dichlorobenzene
Concen: 8.24 ppbV m
RT: 8.743 min Scan# 1192
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:146 Resp: 460737

Ion	Ratio	Lower	Upper
146	100		
111	43.4	33.8	50.8
75	26.2	19.2	28.8

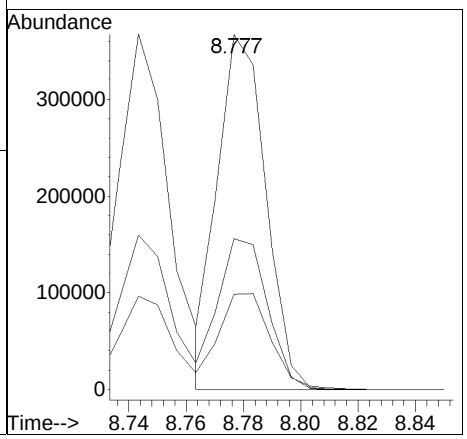


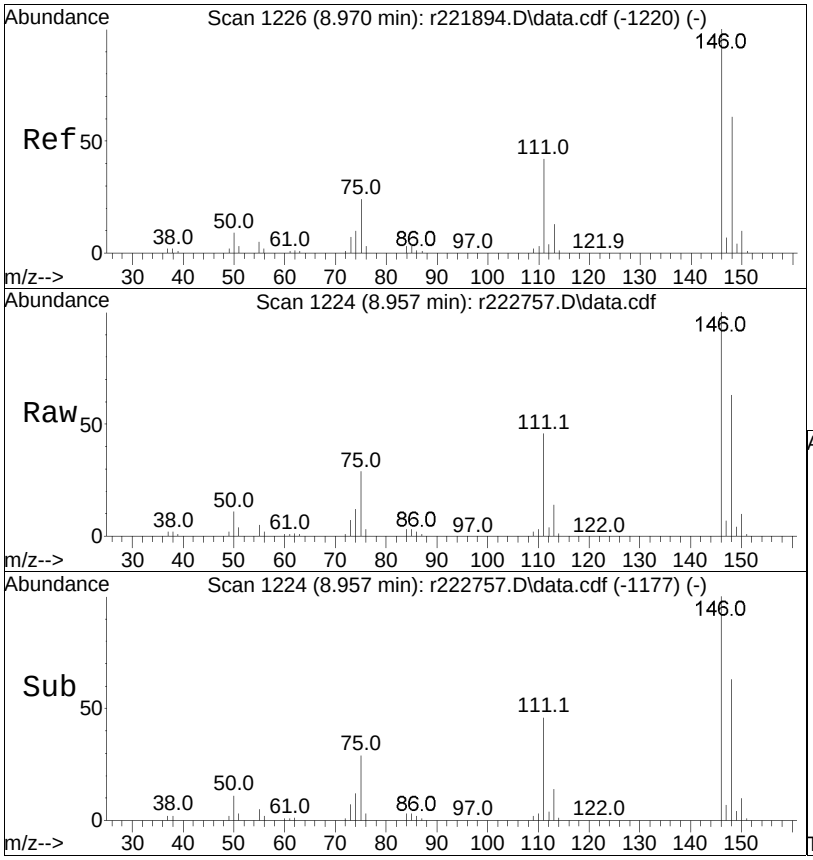


#103
1,4-dichlorobenzene
Concen: 7.97 ppbV
RT: 8.777 min Scan# 1197
Delta R.T. -0.020 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:146 Resp: 427527

Ion	Ratio	Lower	Upper
146	100		
111	42.5	32.6	49.0
75	26.8	19.7	29.5

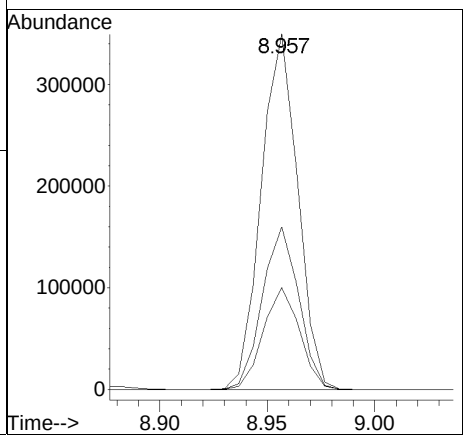


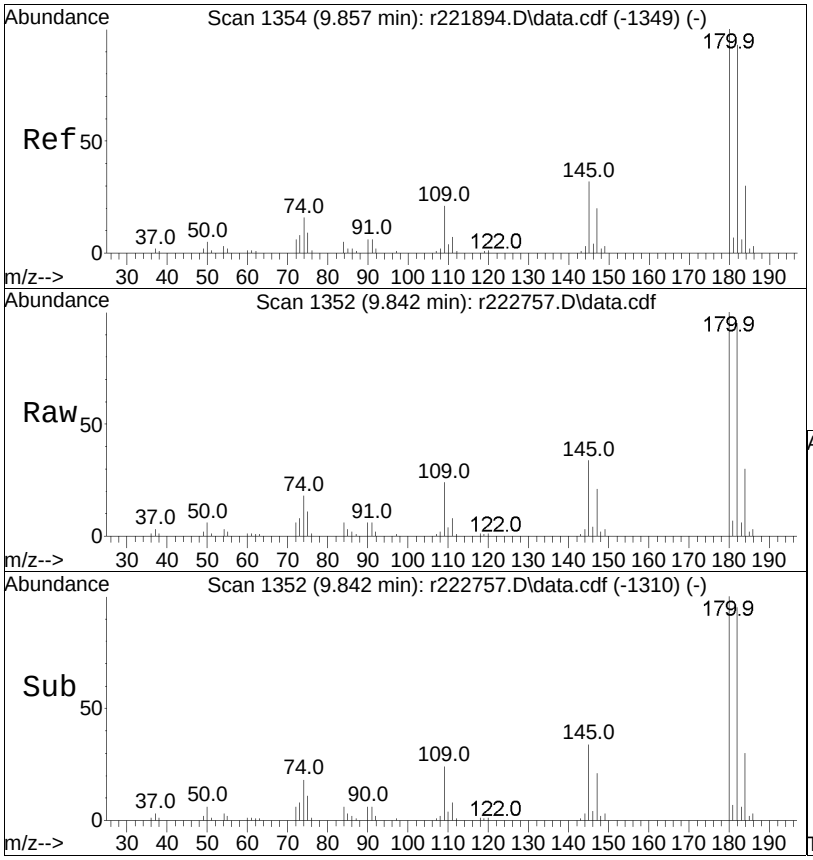


#107
1,2-dichlorobenzene
Concen: 7.87 ppbV
RT: 8.957 min Scan# 1224
Delta R.T. -0.013 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:146 Resp: 413520

Ion	Ratio	Lower	Upper
146	100		
111	45.7	33.5	50.3
75	28.6	18.8	28.2#

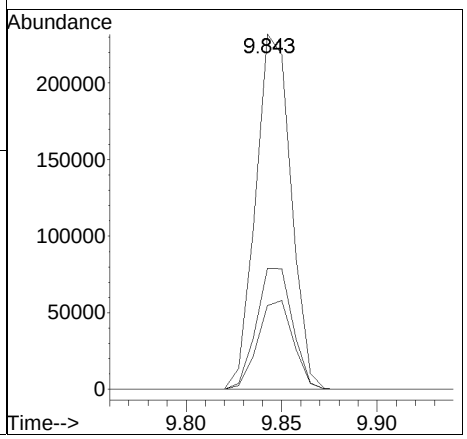


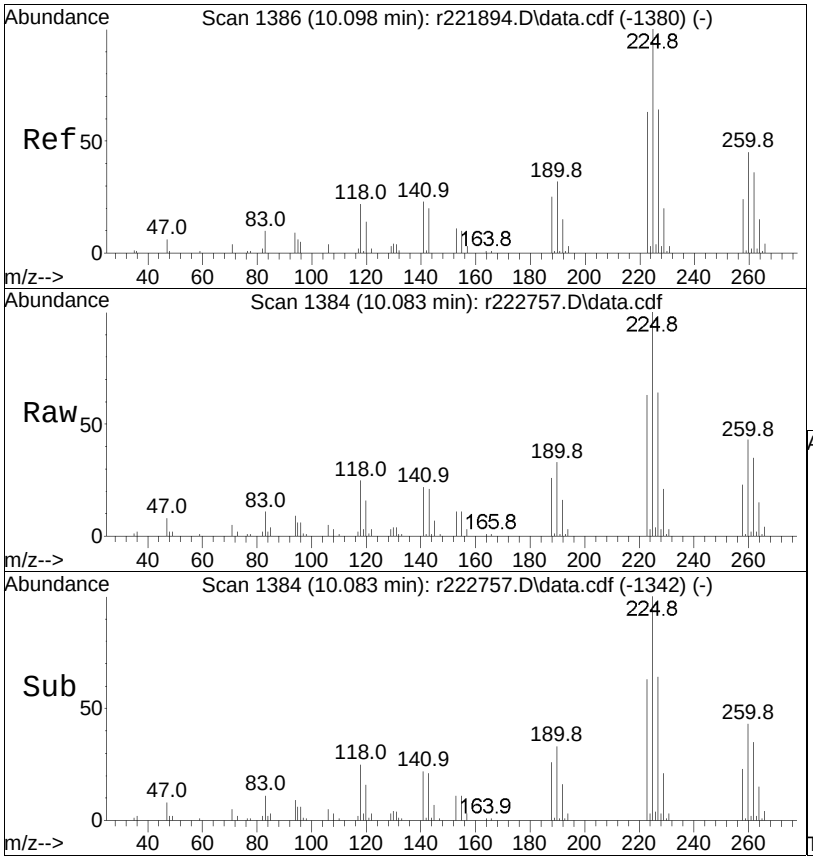


#115
1,2,4-trichlorobenzene
Concen: 7.25 ppbV
RT: 9.842 min Scan# 1352
Delta R.T. -0.015 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:180 Resp: 299290

Ion	Ratio	Lower	Upper
180	100		
145	34.1	25.6	38.4
109	23.6	17.0	25.4

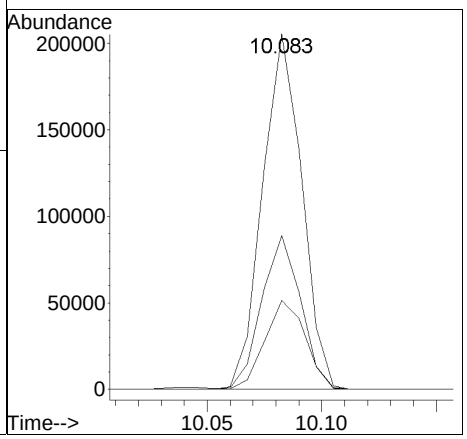




#119
hexachlorobutadiene
Concen: 7.73 ppbV
RT: 10.083 min Scan# 1384
Delta R.T. -0.015 min
Lab File: r222757.D
Acq: 1 Mar 2024 1:22 PM

Tgt Ion:225 Resp: 244998

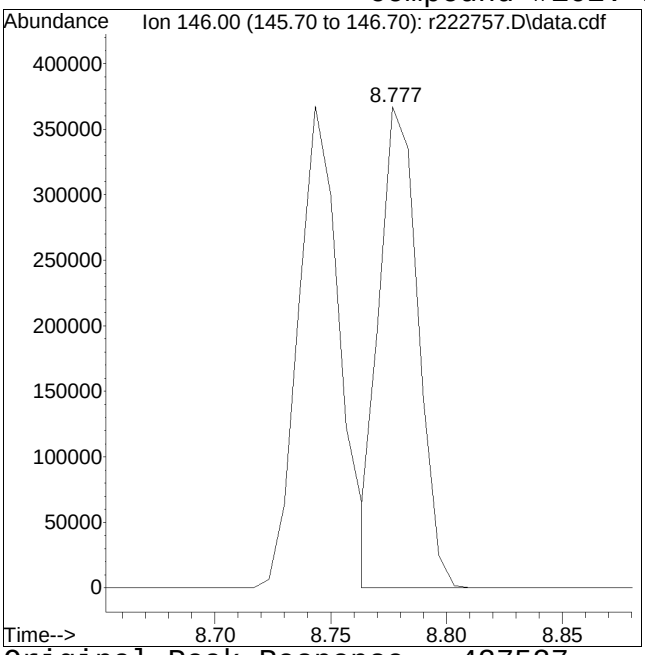
Ion	Ratio	Lower	Upper
225	100		
260	43.3	36.3	54.5
118	25.0	18.4	27.6



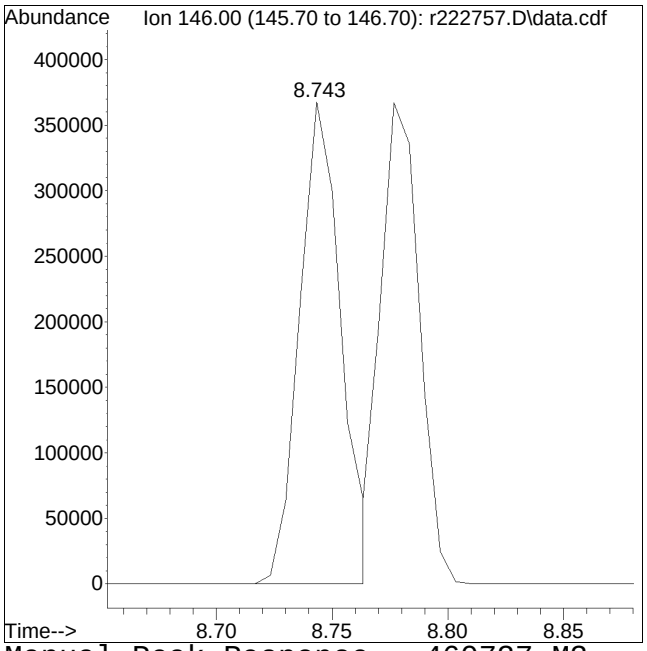
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222757.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:1: 2 Instrument :
Sample : WG1891258-3,3,250,250 Quant Date : 3/1/2024 2:40 pm

Compound #102: 1,3-dichlorobenzene



Original Peak Response = 427527



Manual Peak Response = 460737 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543060.D
Acq On : 26 Feb 2024 11:45 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-5,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:22:25 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.158	49	224083	10.000	ppbV	-0.02
Standard Area = 240397			Recovery =		93.21%	
43) 1,4-difluorobenzene	11.393	114	612902	10.000	ppbV	0.00
Standard Area = 687087			Recovery =		89.20%	
67) chlorobenzene-D5	16.075	54	118107	10.000	ppbV	-0.03
Standard Area = 126242			Recovery =		93.56%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	13283	0.520	ppbV	97
6) chloromethane	4.192	50	5586	0.582	ppbV	96
7) Freon-114	4.306		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.	d	
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.212	31	35007	4.152	ppbV	91
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.713	43	11046M6	0.873	ppbV	
21) trichlorofluoromethane	5.900	101	5018	0.263	ppbV	87
22) isopropyl alcohol	6.037	45	5117	0.321	ppbV #	83
27) tertiary butyl alcohol	6.714	59	6325	0.234	ppbV #	75
28) methylene chloride	6.738	49	12442	0.720	ppbV	95
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	0.000		0	N.D.	d	
31) Freon 113	7.044	101	1820	0.073	ppbV	96
32) trans-1,2-dichloroethene	7.808	61	715	0.033	ppbV #	63
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.508	43	4009	0.135	ppbV #	91
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.317		0	N.D.		
40) Tetrahydrofuran	9.800	42	3035	0.163	ppbV	99
42) 1,2-dichloroethane	10.158		0	N.D.		
44) hexane	9.233	57	2718	0.101	ppbV #	13
50) benzene	10.973	78	7499	0.151	ppbV #	86
53) cyclohexane	11.287		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543060.D
Acq On : 26 Feb 2024 11:45 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-5,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:22:25 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226T\r1543050.D
Sub List : TO15-NY-7-SIM - .

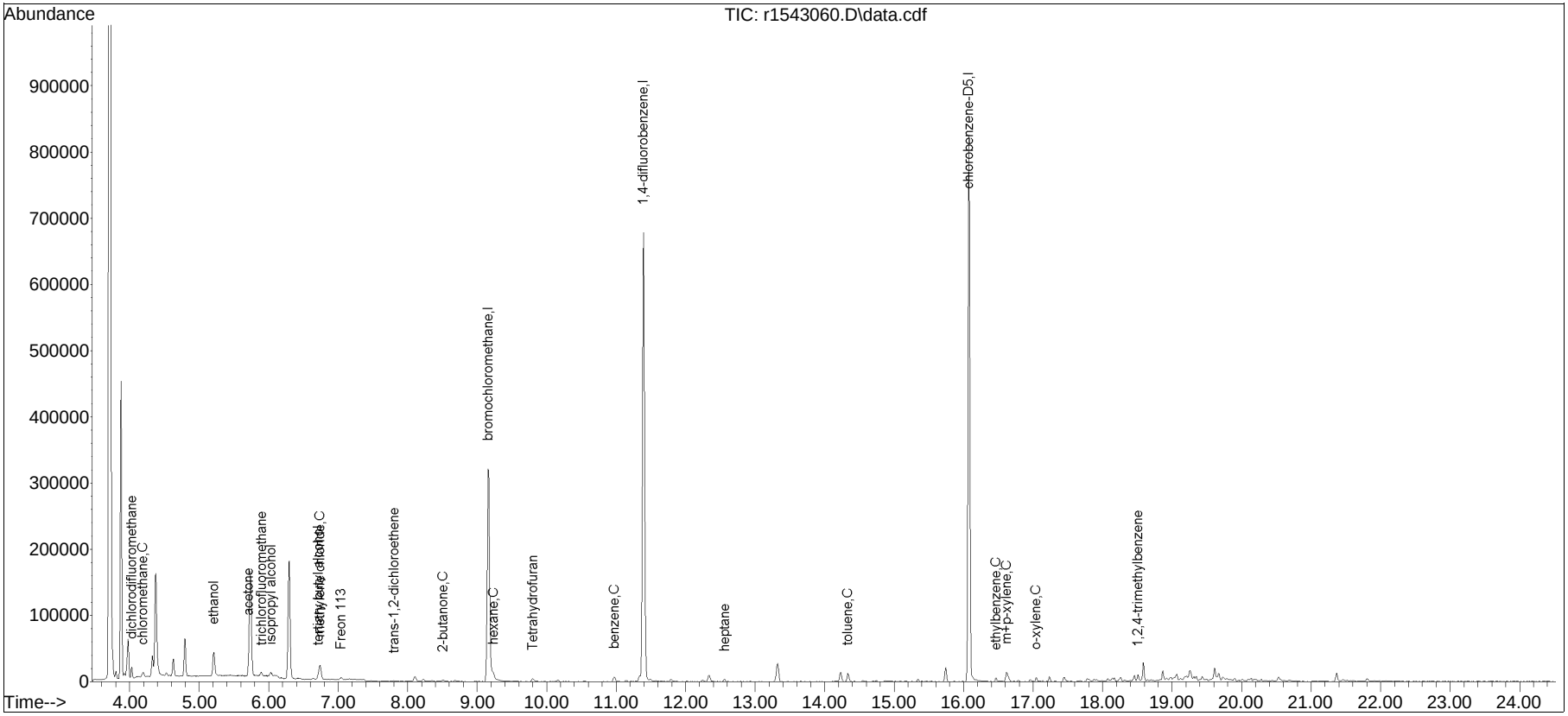
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.240		0	N.D.		
62) heptane	12.560	43	1349	0.046	ppbV #	84
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D. d		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.333	91	10220	0.151	ppbV	97
72) 2-hexanone	0.000		0	N.D. d		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.467	91	4529	0.052	ppbV	95
83) m+p-xylene	16.617	91	12848	0.188	ppbV	87
84) bromoform	0.000		0	N.D.		
85) styrene	16.958		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	17.042	91	4254	0.062	ppbV	87
96) 4-ethyl toluene	18.108		0	N.D.		
97) 1,3,5-trimethylbenzene	18.167		0	N.D.		
99) 1,2,4-trimethylbenzene	18.508	105	2394	0.031	ppbV #	55
101) Benzyl Chloride	0.000		0	N.D. d		
102) 1,3-dichlorobenzene	0.000		0	N.D. d		
103) 1,4-dichlorobenzene	18.708		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.		

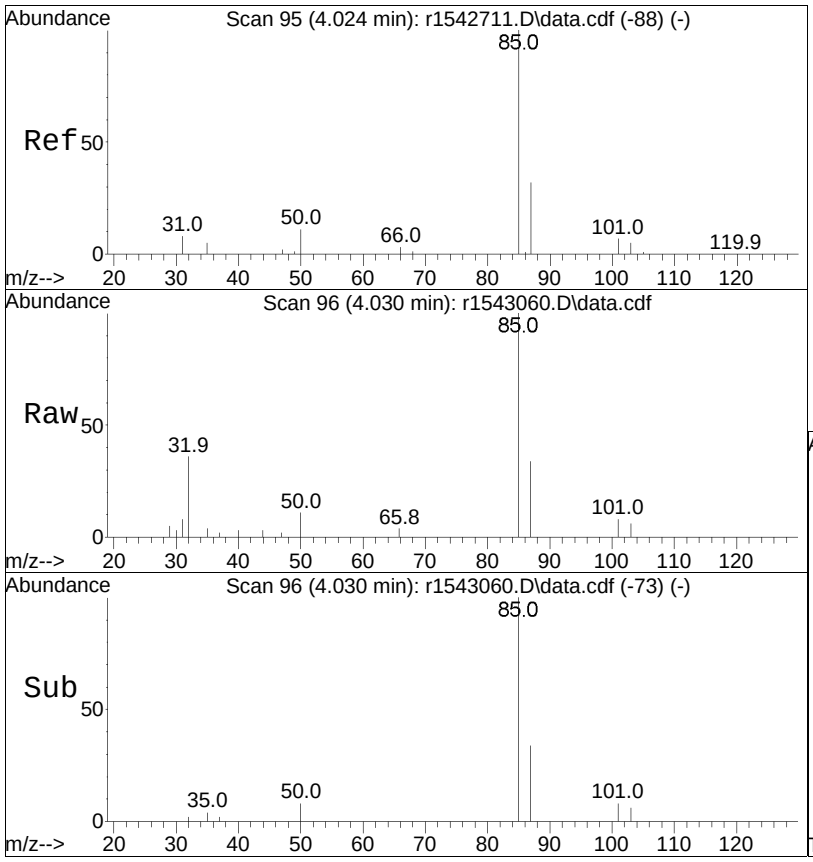
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab15\2024\02\0226T\r1543050.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226T\
Data File : r1543060.D
Acq On : 26 Feb 2024 11:45 PM
Operator : AIRLAB15:KJD
Sample : WG1889452-5,3,250,250
Misc : WG1889452,ICAL20574
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:22:25 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226T\TFS15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Feb 17 13:29:39 2024
Response via : Initial Calibration

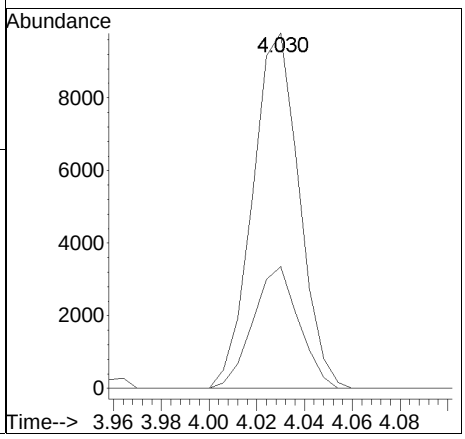


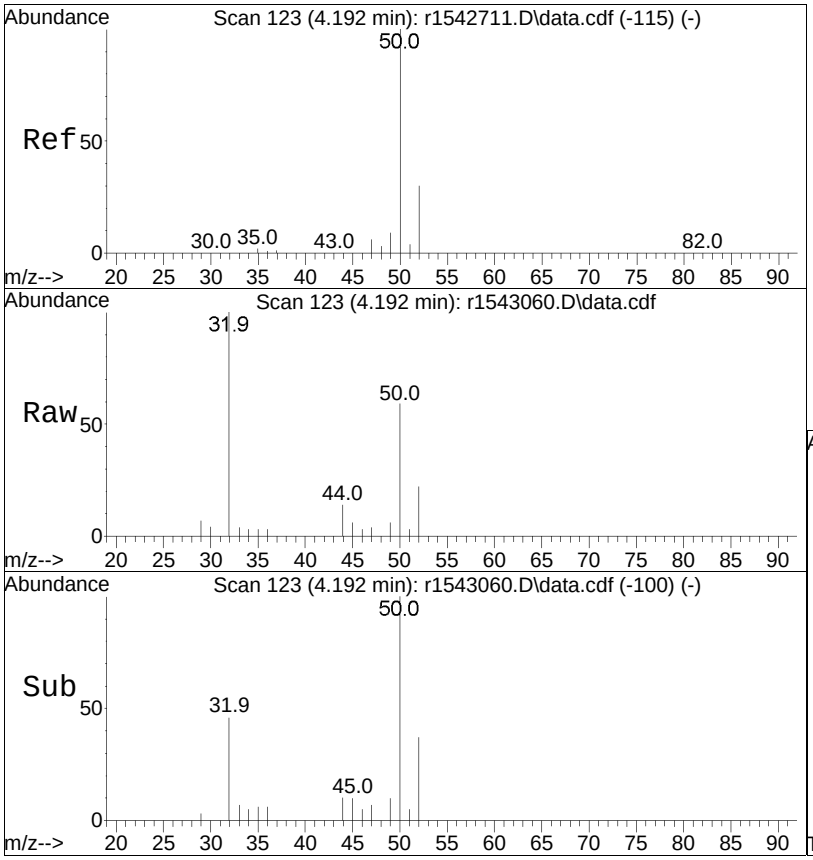


#5
dichlorodifluoromethane
Concen: 0.52 ppbV
RT: 4.030 min Scan# 96
Delta R.T. -0.064 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 85 Resp: 13283

Ion	Ratio	Lower	Upper
85	100		
87	34.3	26.1	39.1

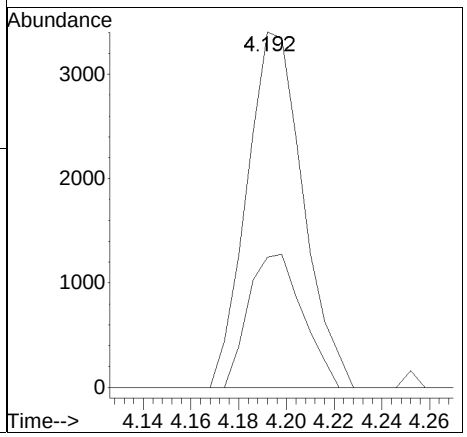


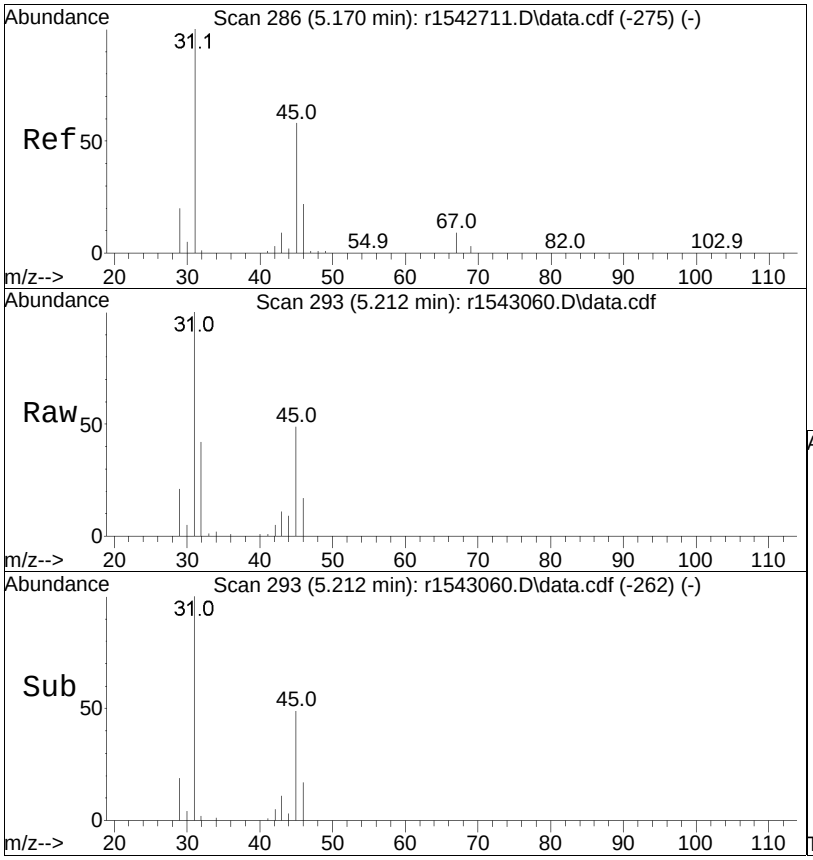


#6
chloromethane
Concen: 0.58 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.064 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 50 Resp: 5586

Ion	Ratio	Lower	Upper
50	100		
52	36.6	27.4	41.2

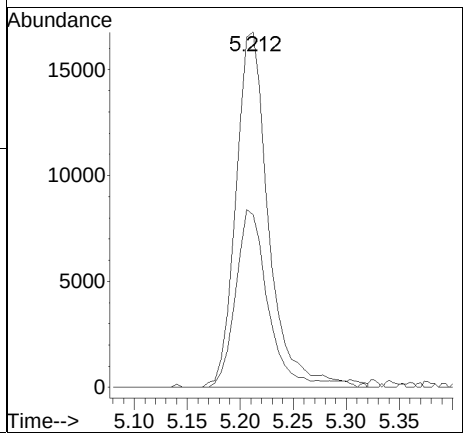


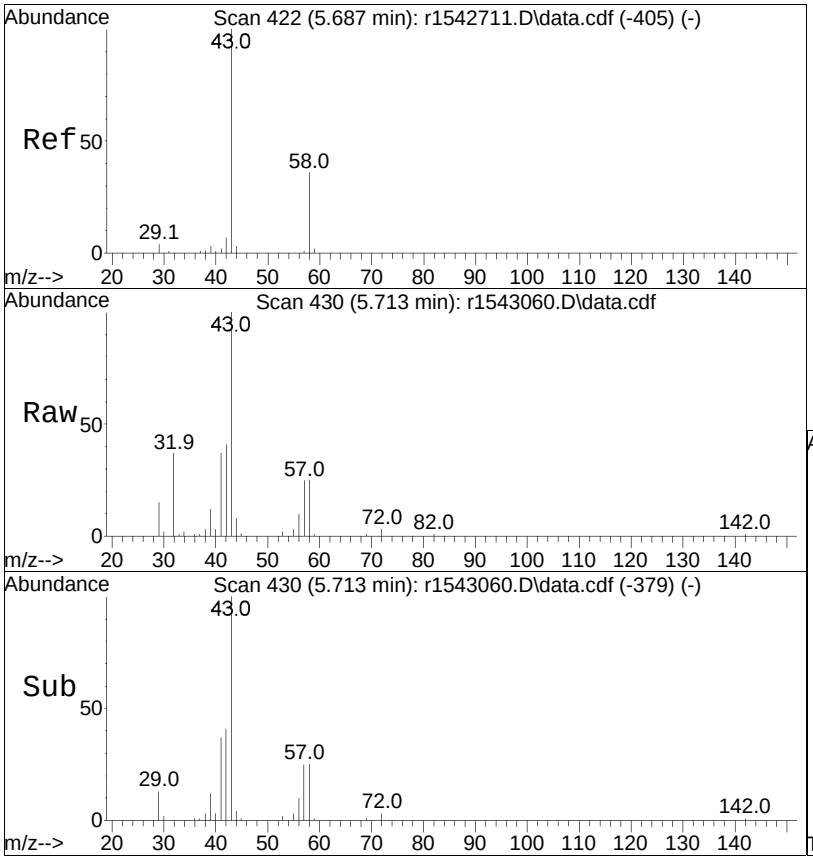


#15
ethanol
Concen: 4.15 ppbV
RT: 5.212 min Scan# 293
Delta R.T. -0.016 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 31 Resp: 35007

Ion	Ratio	Lower	Upper
31	100		
45	48.6	34.2	51.2

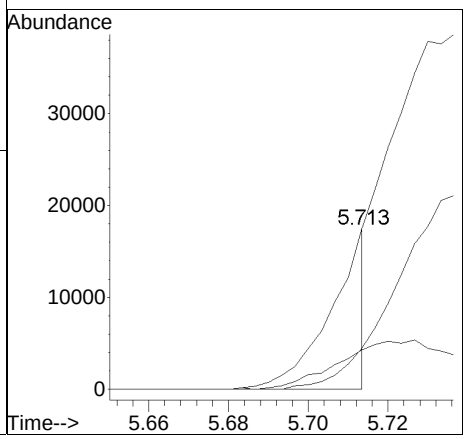


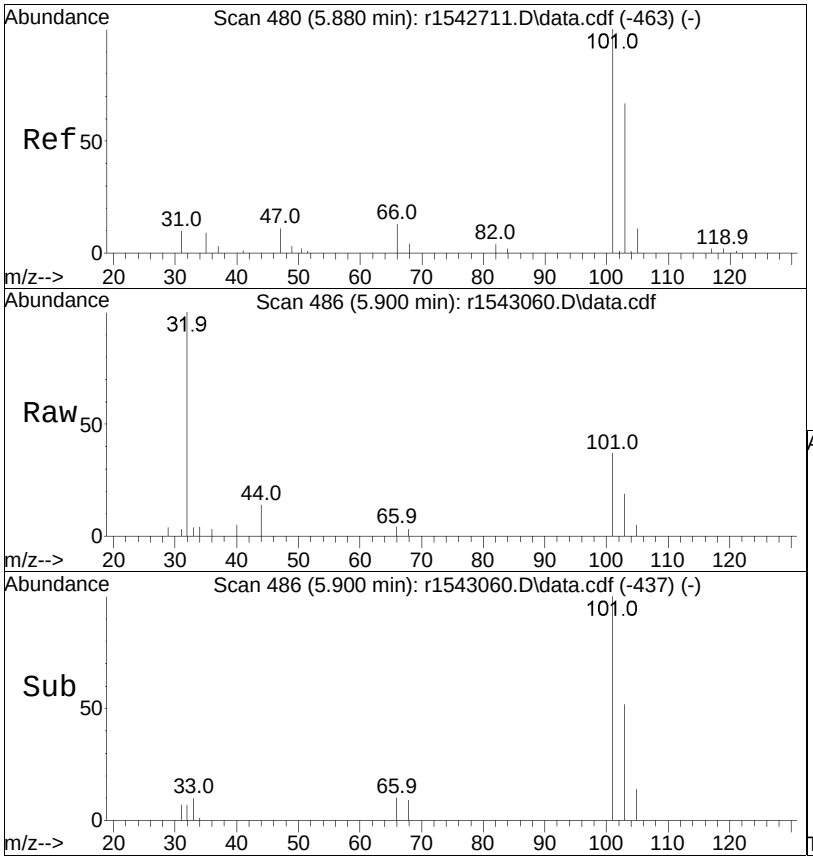


#19
acetone
Concen: 0.87 ppbV m
RT: 5.713 min Scan# 430
Delta R.T. -0.030 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 43 Resp: 11046

Ion	Ratio	Lower	Upper
43	100		
58	24.6	39.0	58.4#
57	25.5	0.9	1.3#

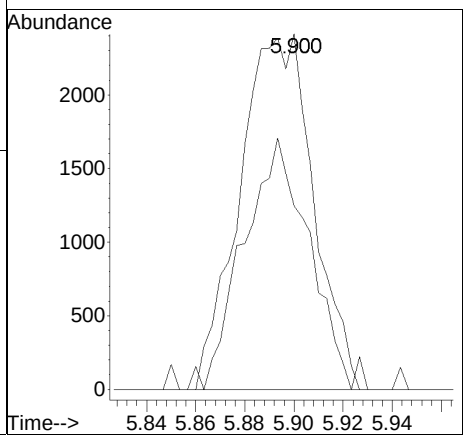


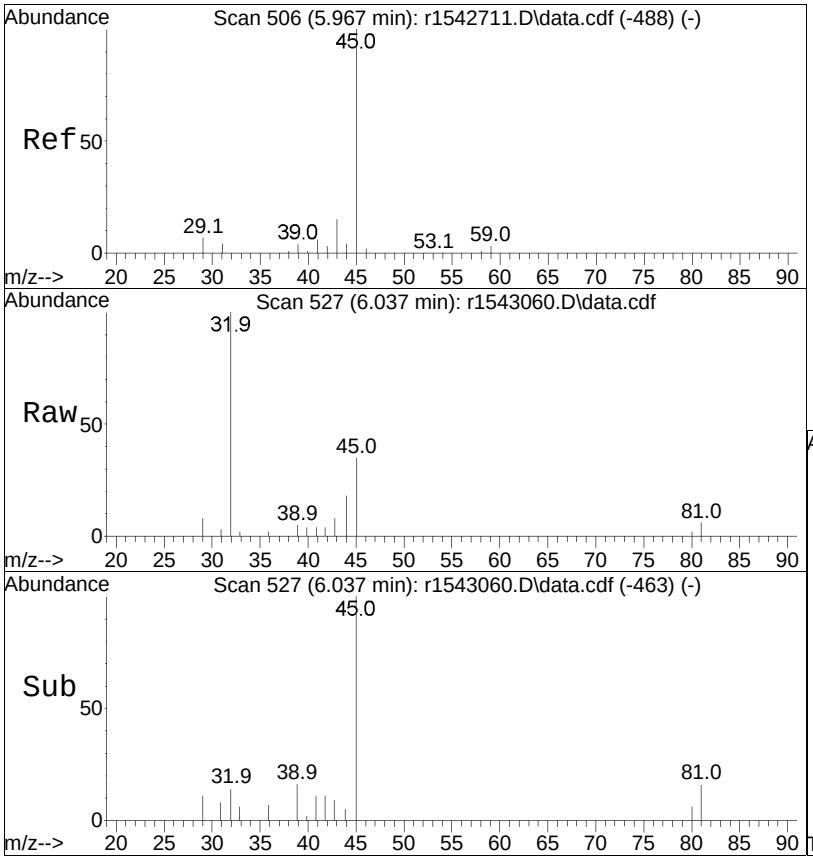


#21
trichlorofluoromethane
Concen: 0.26 ppbV
RT: 5.900 min Scan# 486
Delta R.T. -0.037 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion:101 Resp: 5018

Ion	Ratio	Lower	Upper
101	100		
103	51.7	49.4	74.0

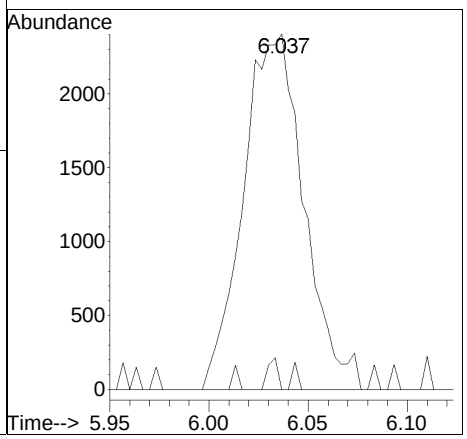


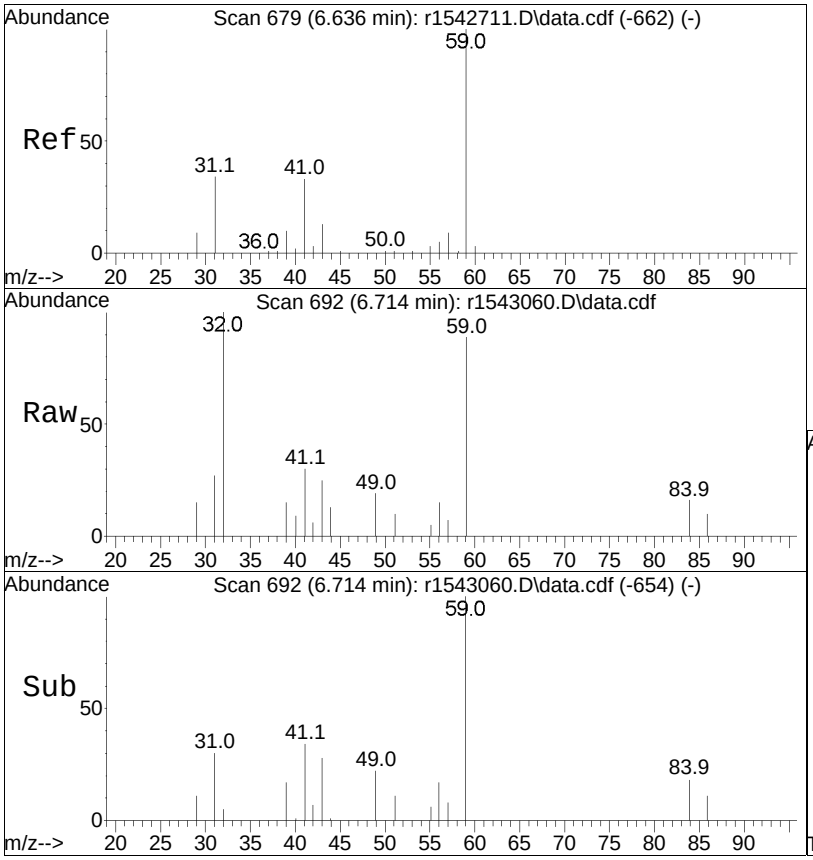


#22
isopropyl alcohol
Concen: 0.32 ppbV
RT: 6.037 min Scan# 527
Delta R.T. 0.013 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 45 Resp: 5117

Ion	Ratio	Lower	Upper
45	100		
59	0.0	4.6	6.8#

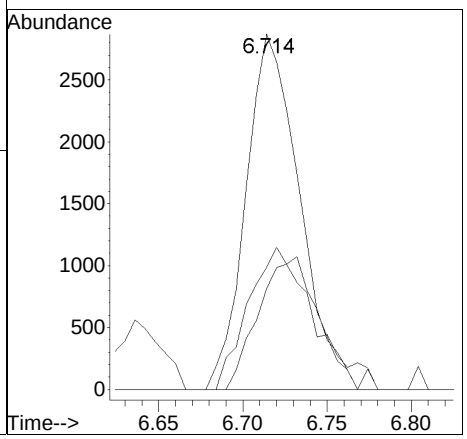


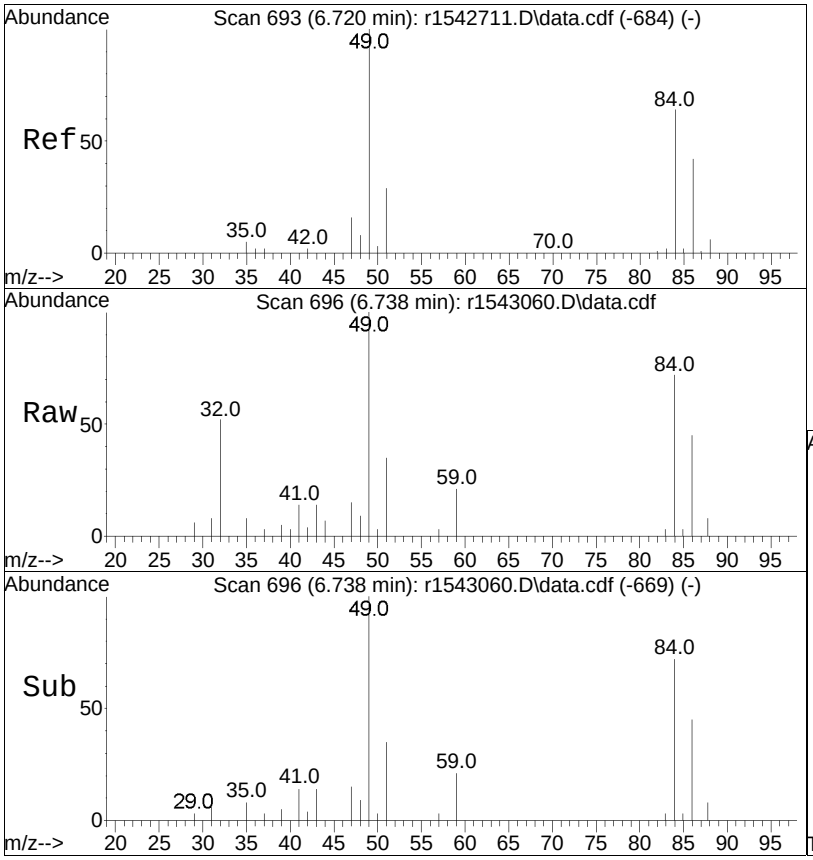


#27
tertiary butyl alcohol
Concen: 0.23 ppbV
RT: 6.714 min Scan# 692
Delta R.T. 0.026 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 59 Resp: 6325

Ion	Ratio	Lower	Upper
59	100		
41	34.3	21.0	31.4#
43	28.4	7.7	11.5#

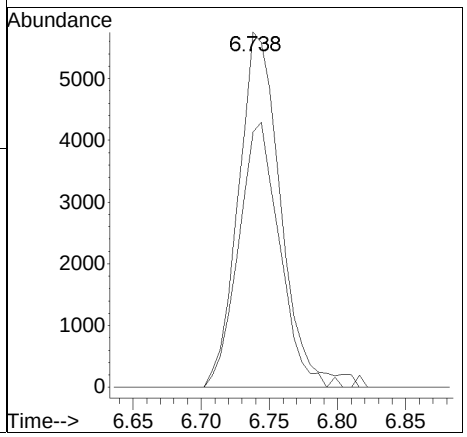


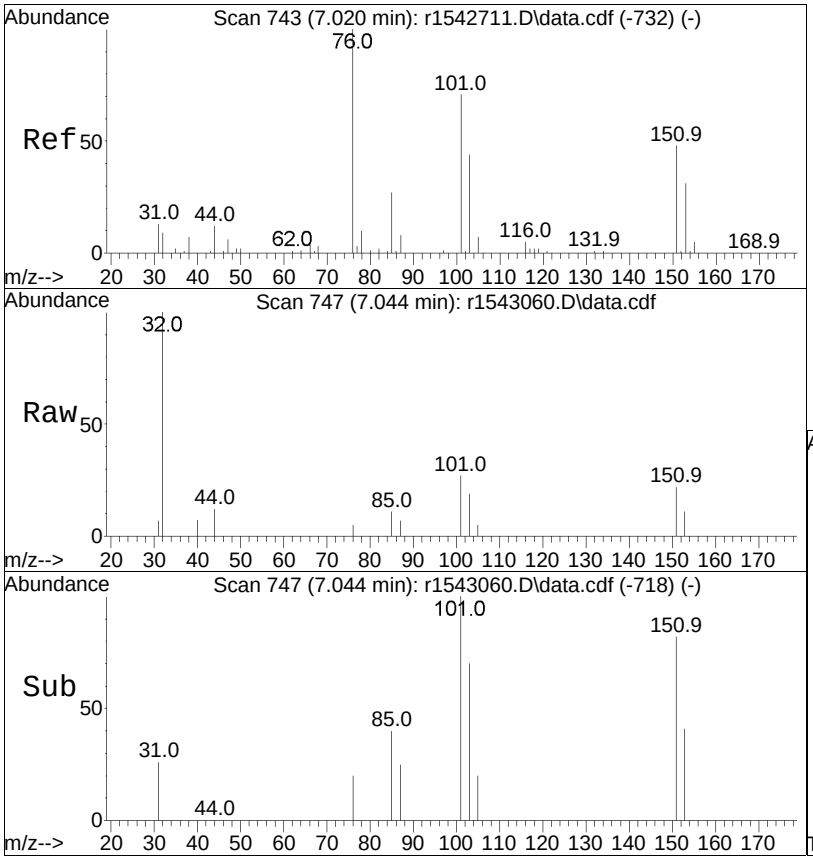


#28
methylene chloride
Concen: 0.72 ppbV
RT: 6.738 min Scan# 696
Delta R.T. -0.040 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 49 Resp: 12442

Ion	Ratio	Lower	Upper
49	100		
84	71.9	61.2	91.8

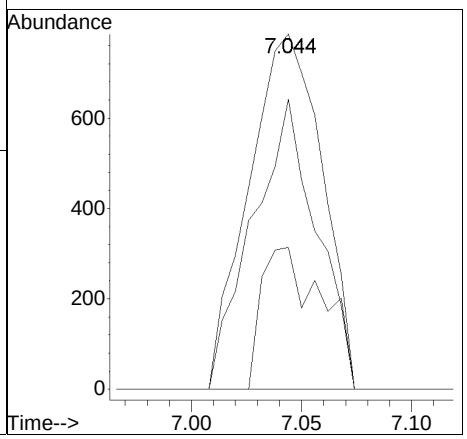


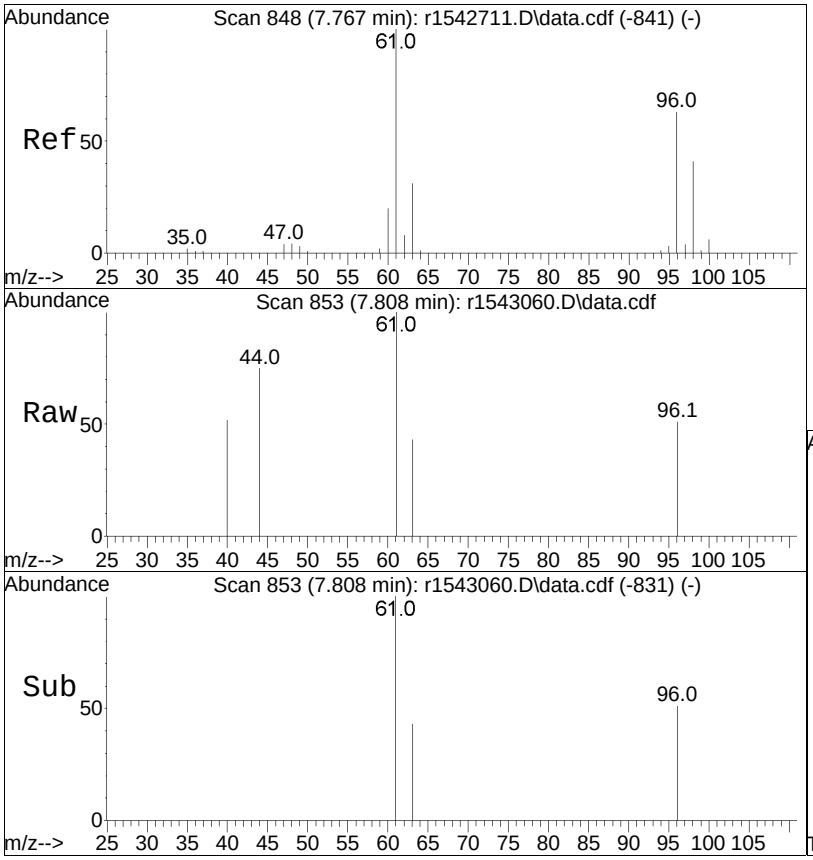


#31
Freon 113
Concen: 0.07 ppbV
RT: 7.044 min Scan# 747
Delta R.T. -0.028 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion:101 Resp: 1820

Ion	Ratio	Lower	Upper
101	100		
85	39.9	35.3	52.9
151	81.7	63.8	95.8

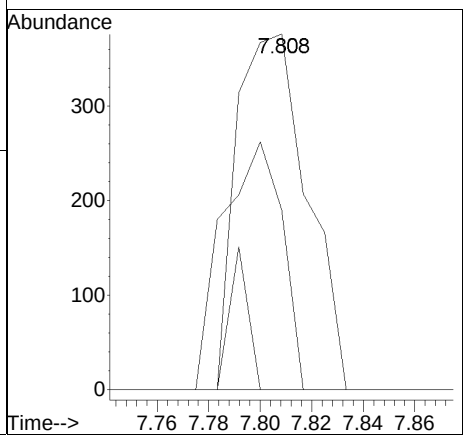


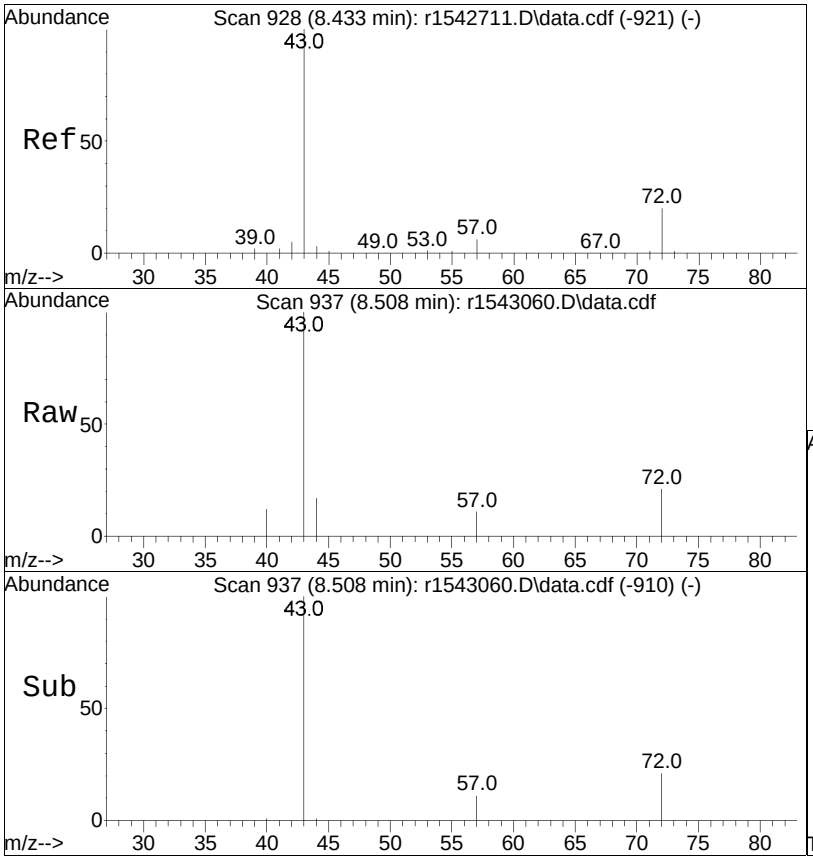


#32
trans-1,2-dichloroethene
Concen: 0.03 ppbV
RT: 7.808 min Scan# 853
Delta R.T. -0.017 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 61 Resp: 715

Ion	Ratio	Lower	Upper
61	100		
96	50.5	52.2	78.4#
98	0.0	33.0	49.4#

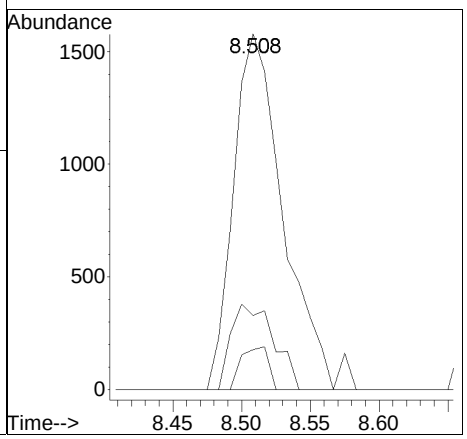


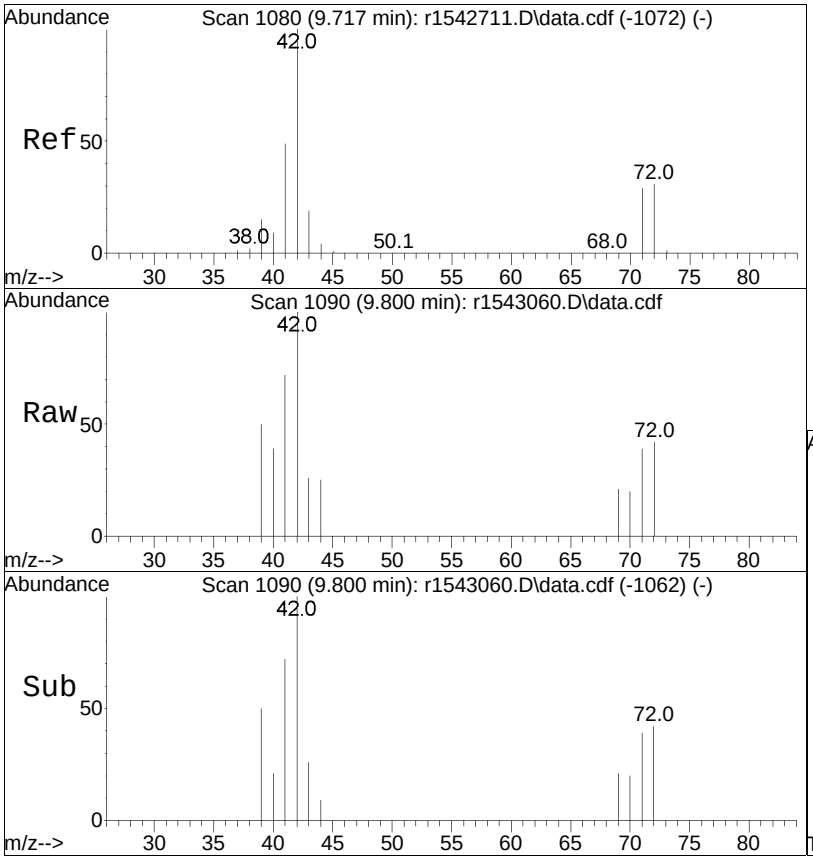


#36
2-butanone
Concen: 0.13 ppbV
RT: 8.508 min Scan# 937
Delta R.T. 0.025 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 43 Resp: 4009

Ion	Ratio	Lower	Upper
43	100		
72	20.8	21.0	31.4#
57	11.2	7.1	10.7#

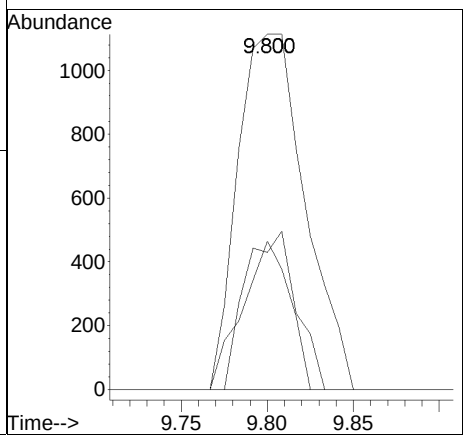


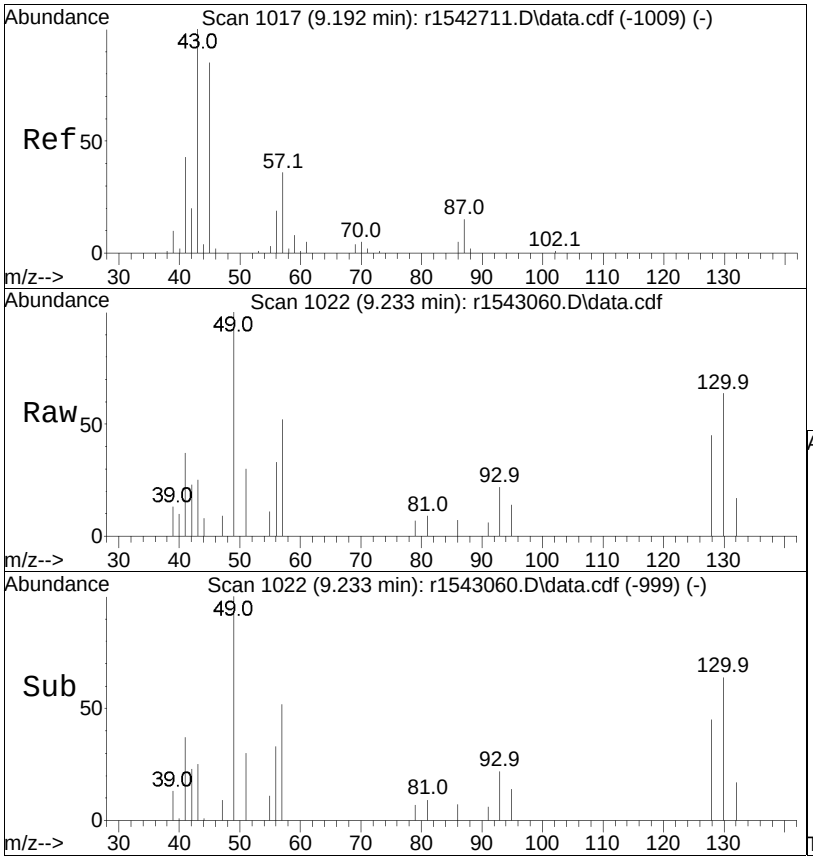


#40
Tetrahydrofuran
Concen: 0.16 ppbV
RT: 9.800 min Scan# 1090
Delta R.T. 0.033 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 42 Resp: 3035

Ion	Ratio	Lower	Upper
42	100		
71	38.6	30.6	46.0
72	41.7	32.5	48.7

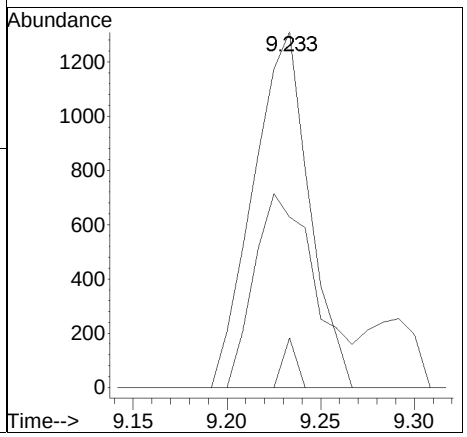


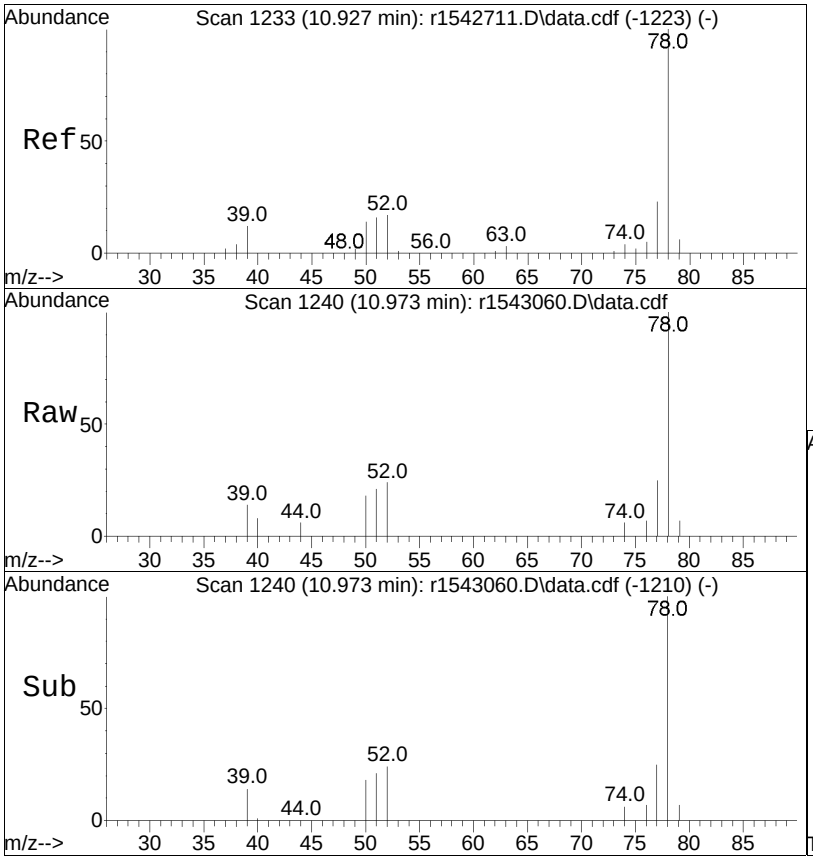


#44
hexane
Concen: 0.10 ppbV
RT: 9.233 min Scan# 1022
Delta R.T. -0.008 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 57 Resp: 2718

Ion	Ratio	Lower	Upper
57	100		
43	47.9	146.8	220.2#
86	14.0	12.7	19.1

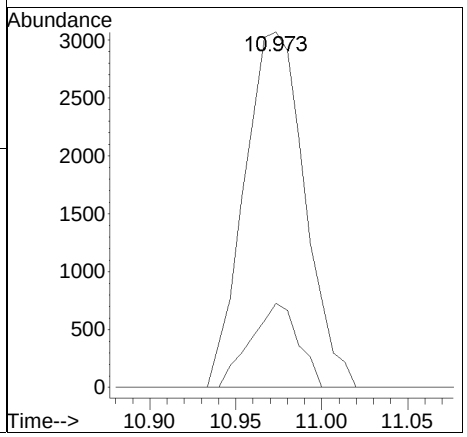


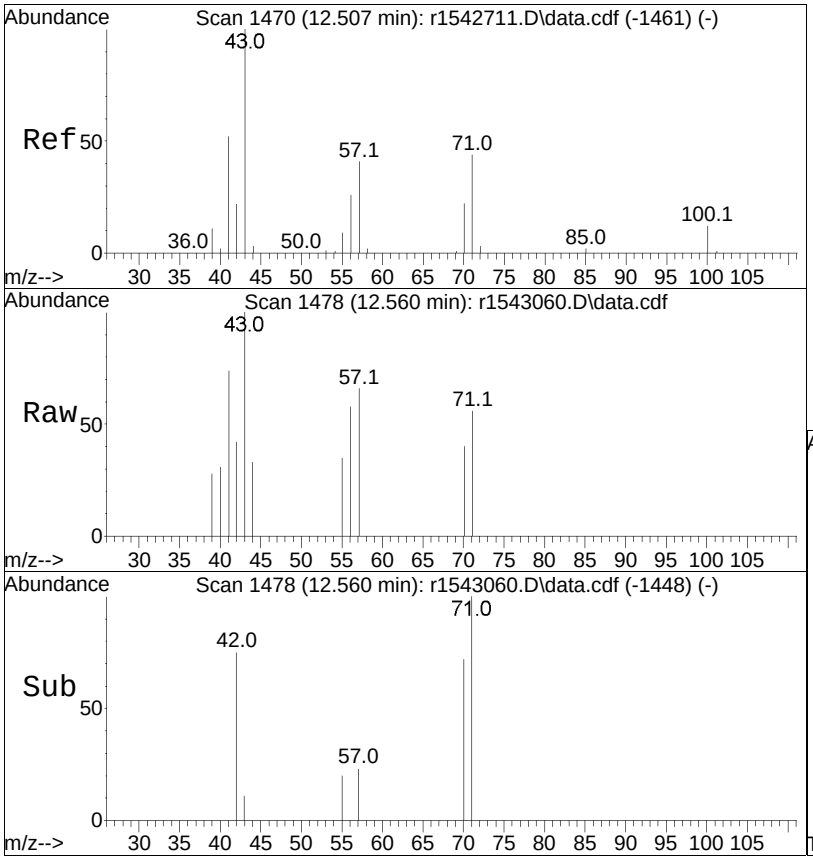


#50
benzene
Concen: 0.15 ppbV
RT: 10.973 min Scan# 1240
Delta R.T. 0.000 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 78 Resp: 7499

Ion	Ratio	Lower	Upper
78	100		
52	23.7	14.1	21.1#

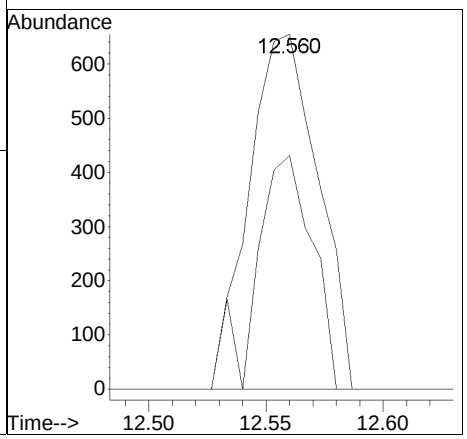


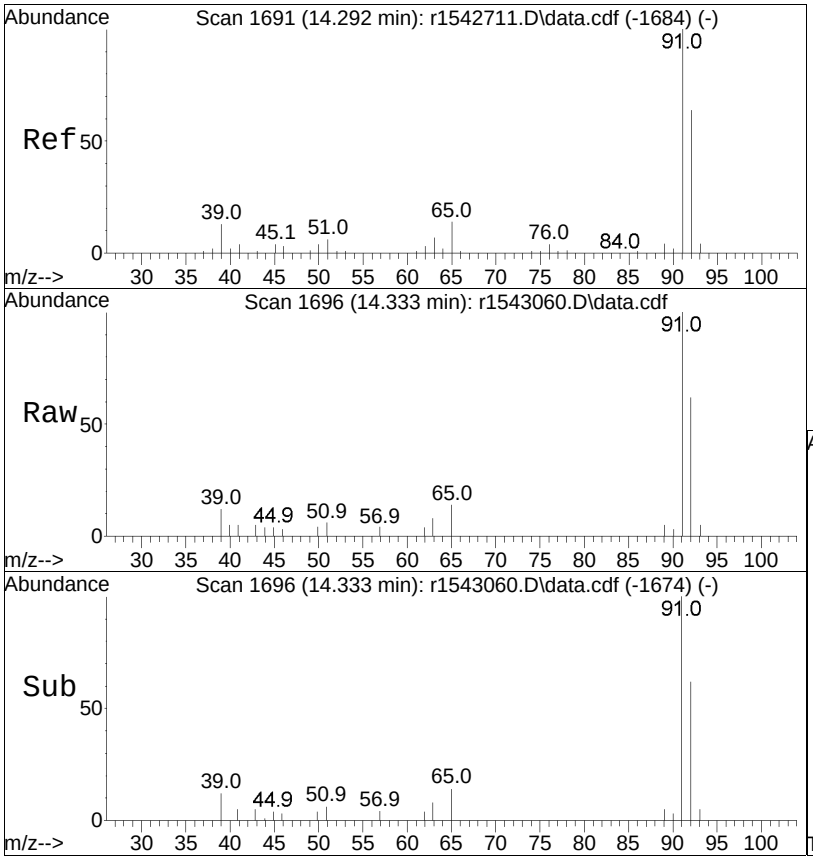


#62
heptane
Concen: 0.05 ppbV
RT: 12.560 min Scan# 1478
Delta R.T. 0.000 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 43 Resp: 1349

Ion	Ratio	Lower	Upper
43	100		
57	65.8	46.6	70.0
100	0.0	13.3	19.9#

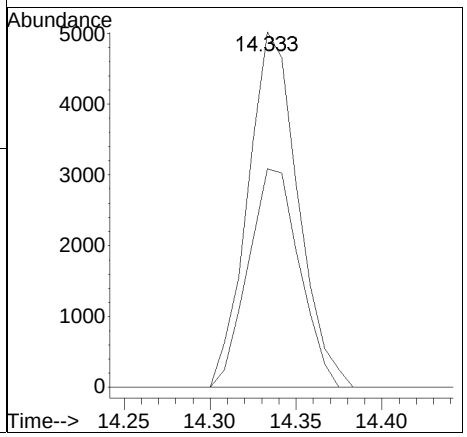


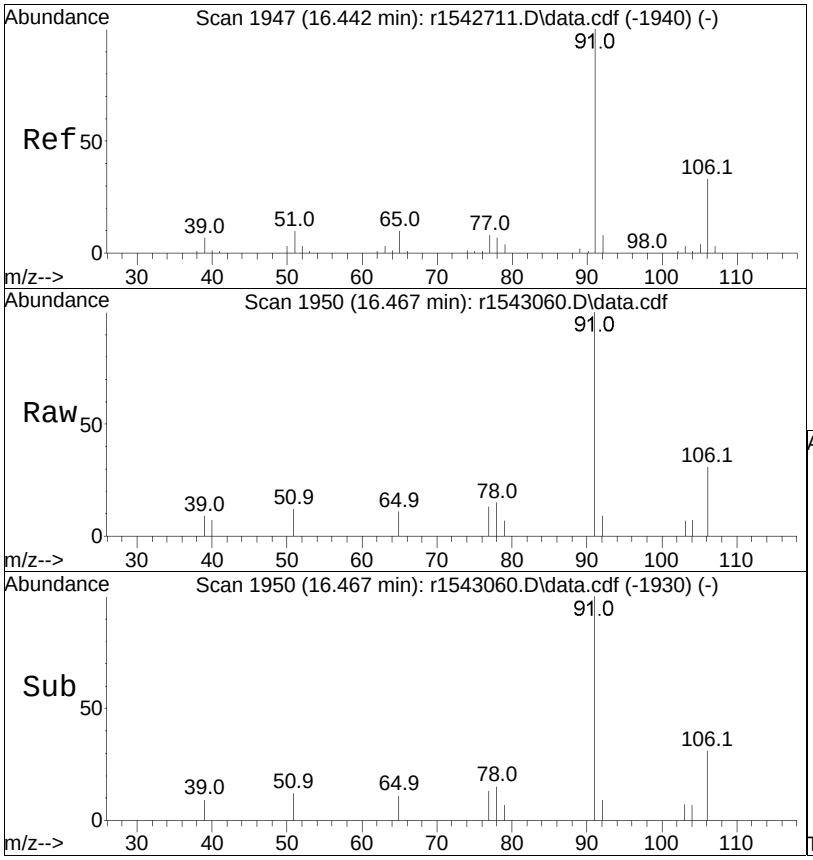


#68
toluene
Concen: 0.15 ppbV
RT: 14.333 min Scan# 1696
Delta R.T. -0.017 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 91 Resp: 10220

Ion	Ratio	Lower	Upper
91	100		
92	61.5	51.0	76.4

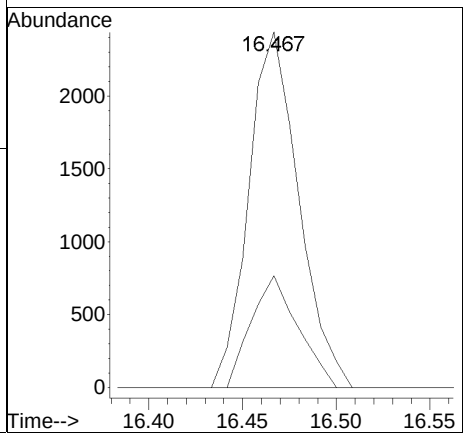


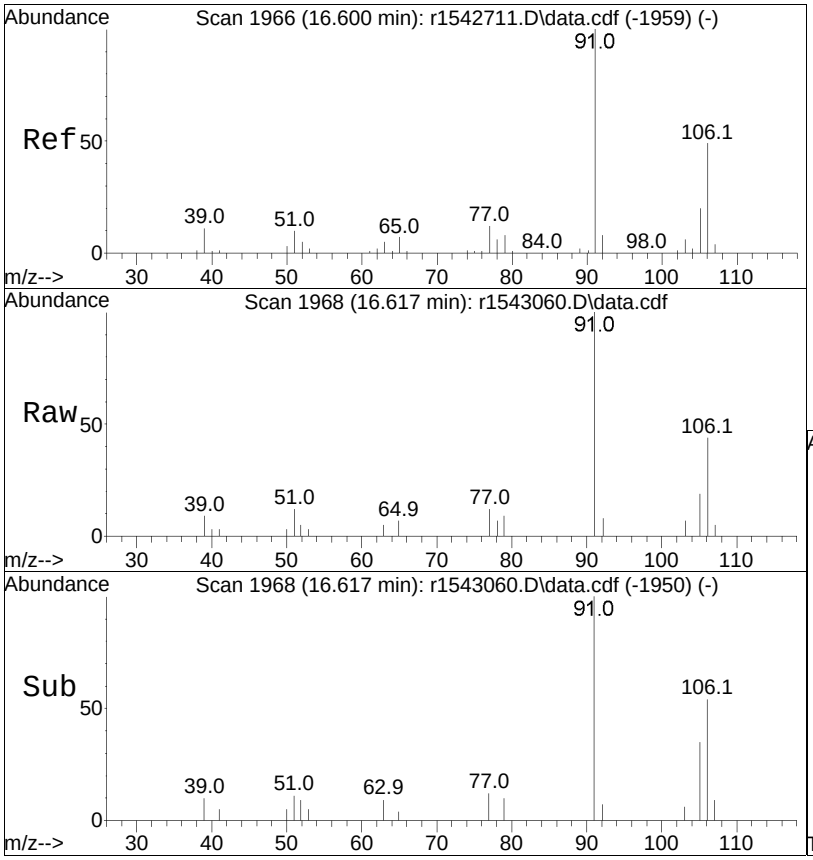


#81
ethylbenzene
Concen: 0.05 ppbV
RT: 16.467 min Scan# 1950
Delta R.T. -0.033 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 91 Resp: 4529

Ion	Ratio	Lower	Upper
91	100		
106	31.4	27.7	41.5

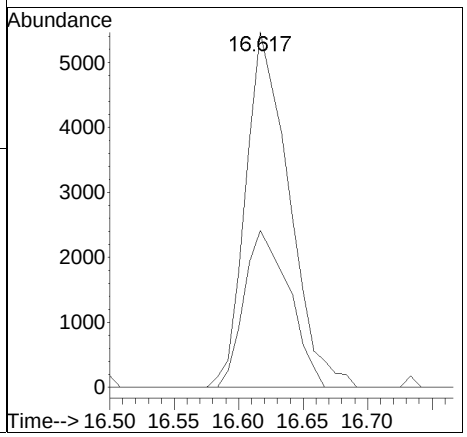


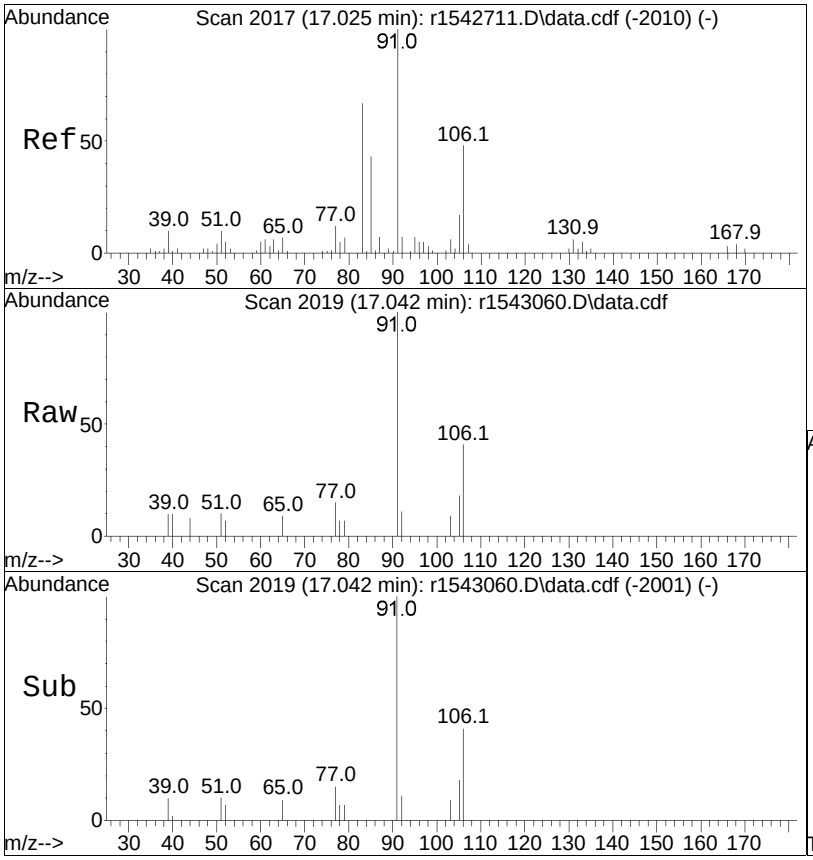


#83
m+p-xylene
Concen: 0.19 ppbV
RT: 16.617 min Scan# 1968
Delta R.T. -0.050 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 91 Resp: 12848

Ion	Ratio	Lower	Upper
91	100		
106	44.2	42.7	64.1

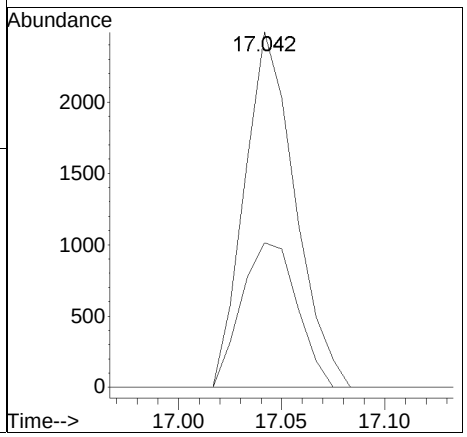


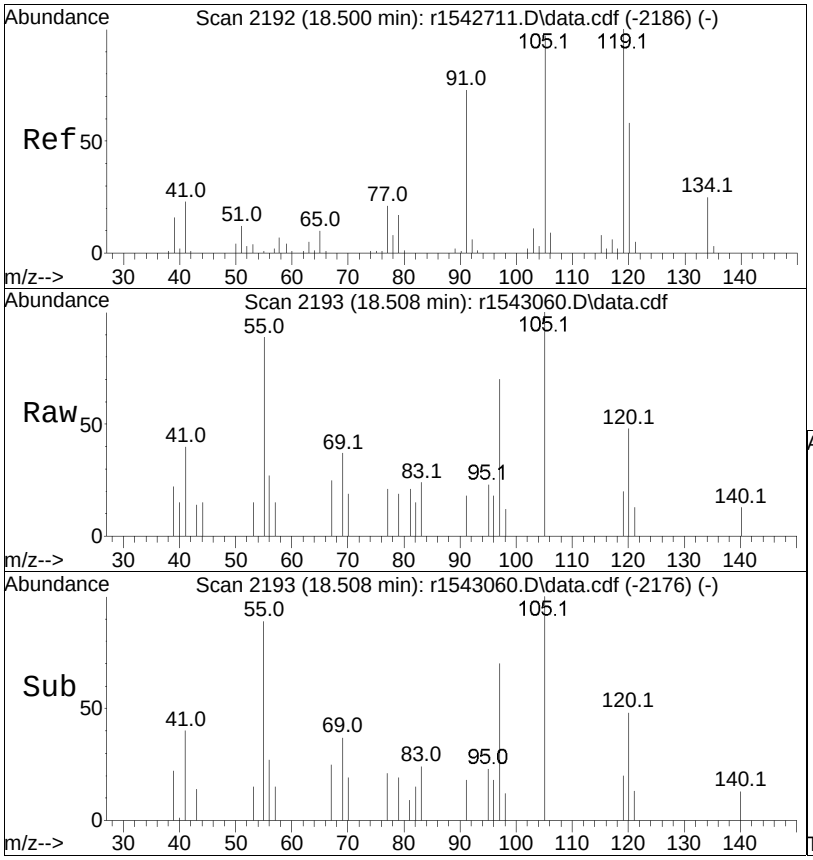


#87
o-xylene
Concen: 0.06 ppbV
RT: 17.042 min Scan# 2019
Delta R.T. -0.050 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion: 91 Resp: 4254

Ion	Ratio	Lower	Upper
91	100		
106	40.7	40.0	60.0

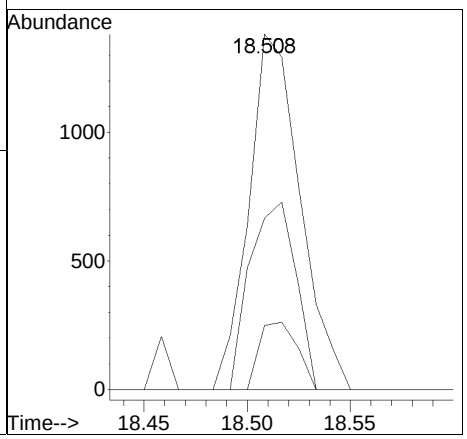




#99
1,2,4-trimethylbenzene
Concen: 0.03 ppbV
RT: 18.508 min Scan# 2193
Delta R.T. -0.058 min
Lab File: r1543060.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion:105 Resp: 2394

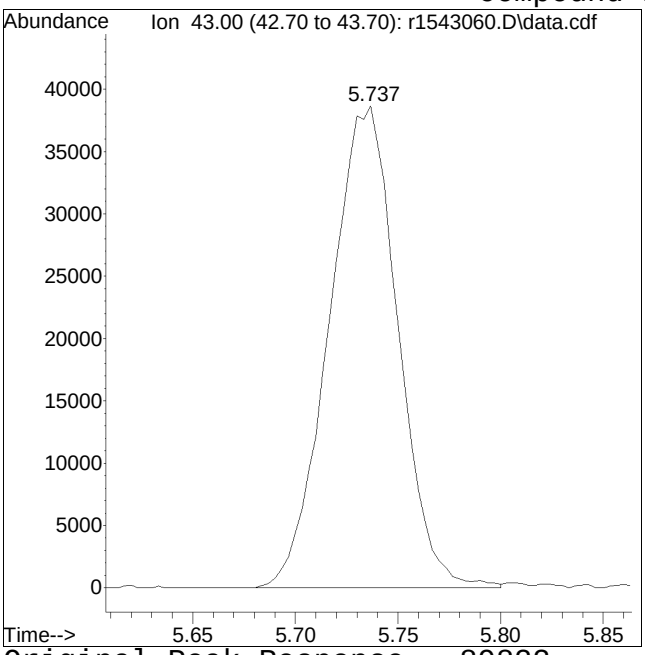
Ion	Ratio	Lower	Upper
105	100		
120	48.2	51.8	77.6#
91	18.0	58.3	87.5#



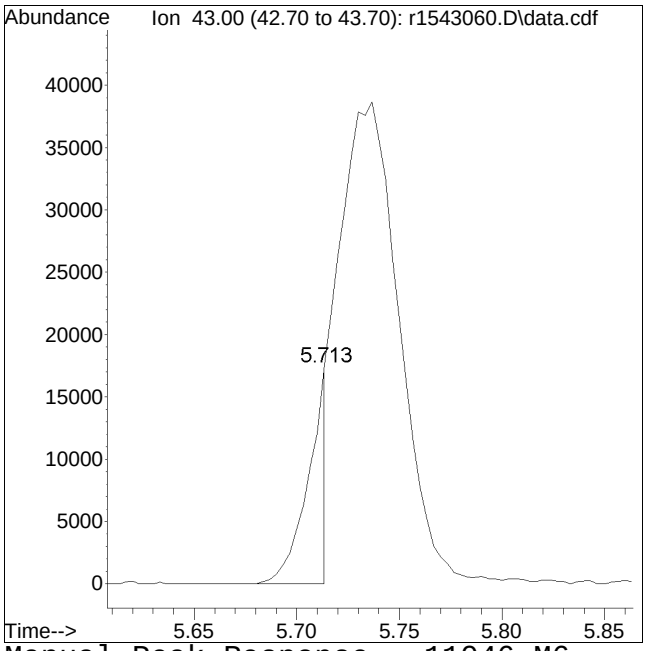
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543060.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 5 Instrument :
Sample : WG1889452-5,3,250,250 Quant Date : 2/27/2024 7:22 am

Compound #19: acetone



Original Peak Response = 89822



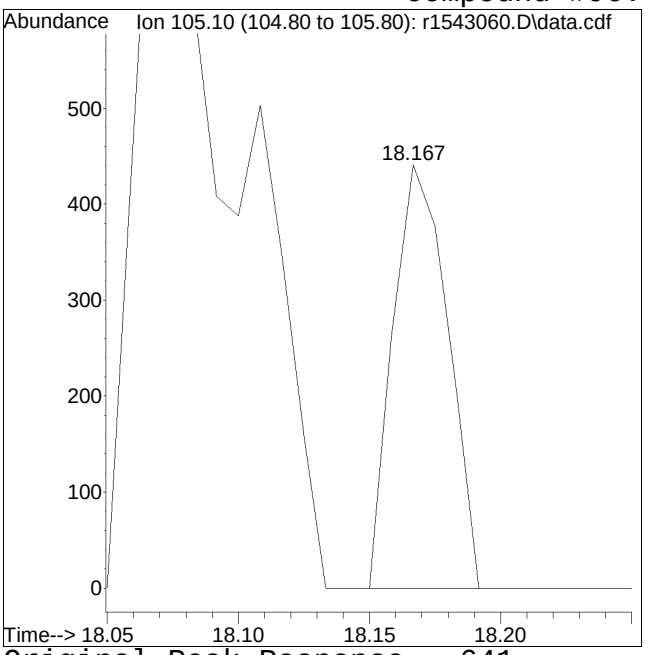
Manual Peak Response = 11046 M6

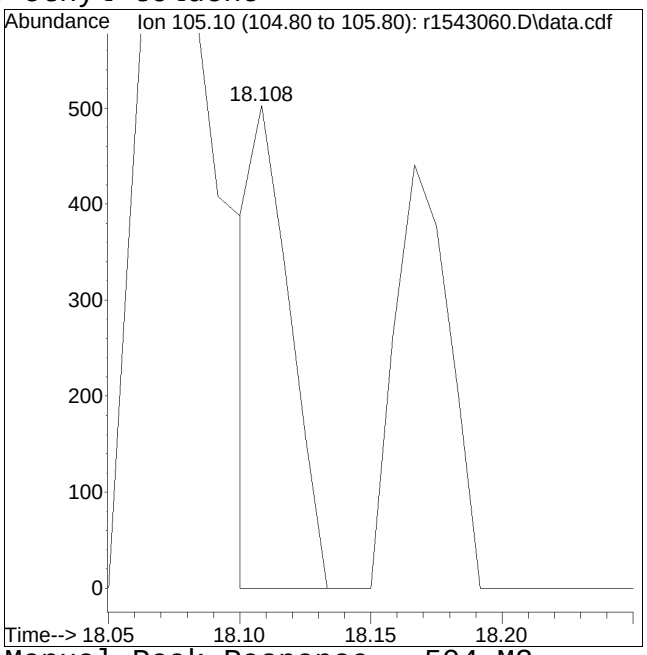
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_231120.M
Data File : r1543060.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 5 Instrument :
Sample : WG1889452-5,3,250,250 Quant Date : 2/27/2024 7:22 am

Compound #96: 4-ethyl toluene





Original Peak Response = 641 Manual Peak Response = 504 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222765.D
Acq On : 1 Mar 2024 7:55 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-5,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:07:16 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.437	49	225468	10.000	ppbV	-0.01
Standard Area = 199252			Recovery = 113.16%			
43) 1,4-difluorobenzene	5.363	114	707620	10.000	ppbV	-0.01
Standard Area = 623148			Recovery = 113.56%			
67) chlorobenzene-D5	7.333	54	80217	10.000	ppbV	-0.01
Standard Area = 82823			Recovery = 96.85%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.195	85	6564	0.361	ppbV	99
6) chloromethane	2.295	50	14479	1.470	ppbV	97
7) Freon-114	2.355		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.	d	
15) ethanol	2.745	31	16679	4.606	ppbV	99
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.965	43	116929M6	16.119	ppbV	
21) trichlorofluoromethane	3.049	101	3667	0.379	ppbV	96
22) isopropyl alcohol	3.073	45	5919	0.492	ppbV	98
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	3.365	59	36027	1.330	ppbV	96
28) methylene chloride	3.405	49	3512	0.196	ppbV	92
29) 3-chloropropene	3.425		0	N.D.		
30) carbon disulfide	3.545	76	23329	0.471	ppbV #	95
31) Freon 113	3.530	101	1791	0.066	ppbV	94
32) trans-1,2-dichloroethene	3.857		0	N.D.		
33) 1,1-dichloroethane	3.977		0	N.D.		
34) MTBE	3.983		0	N.D.		
36) 2-butanone	4.143	43	9178	0.251	ppbV	99
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	4.497		0	N.D.		
40) Tetrahydrofuran	4.690	42	149156	6.402	ppbV	100
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	4.457	57	3791	0.151	ppbV #	3

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222765.D
Acq On : 1 Mar 2024 7:55 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-5,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:07:16 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	5.197	78	9805	0.186	ppbV	99
52) carbon tetrachloride	5.263	117	1108	0.063	ppbV #	86
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	5.690		0	N.D.		
60) 2,2,4-trimethylpentane	0.000		0	N.D.	d	
62) heptane	5.830	43	4914	0.156	ppbV	94
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	6.107	43	22046	0.628	ppbV	96
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	6.493		0	N.D.		
68) toluene	6.533	91	58258	0.871	ppbV	100
72) 2-hexanone	6.647	43	2077M3	0.053	ppbV	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	7.047	166	3993	0.154	ppbV	97
80) chlorobenzene	7.353		0	N.D.		
81) ethylbenzene	7.520	91	23460	0.290	ppbV	99
83) m+p-xylene	7.593	91	71840	1.140	ppbV	97
84) bromoform	0.000		0	N.D.		
85) styrene	7.767	104	4643	0.082	ppbV	96
86) 1,1,2,2-tetrachloroethane	7.780		0	N.D.		
87) o-xylene	7.820	91	25162	0.409	ppbV	95
96) 4-ethyl toluene	8.407	105	8845M3	0.097	ppbV	
97) 1,3,5-trimethylbenzene	8.453	105	8649	0.116	ppbV #	96
99) 1,2,4-trimethylbenzene	8.663	105	30041	0.422	ppbV #	57
101) Benzyl Chloride	8.803		0	N.D.		
102) 1,3-dichlorobenzene	8.777		0	N.D.		
103) 1,4-dichlorobenzene	8.777		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\Airlab22\2024\03\0301T\
Data File : r222765.D
Acq On : 1 Mar 2024 7:55 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-5,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:07:16 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

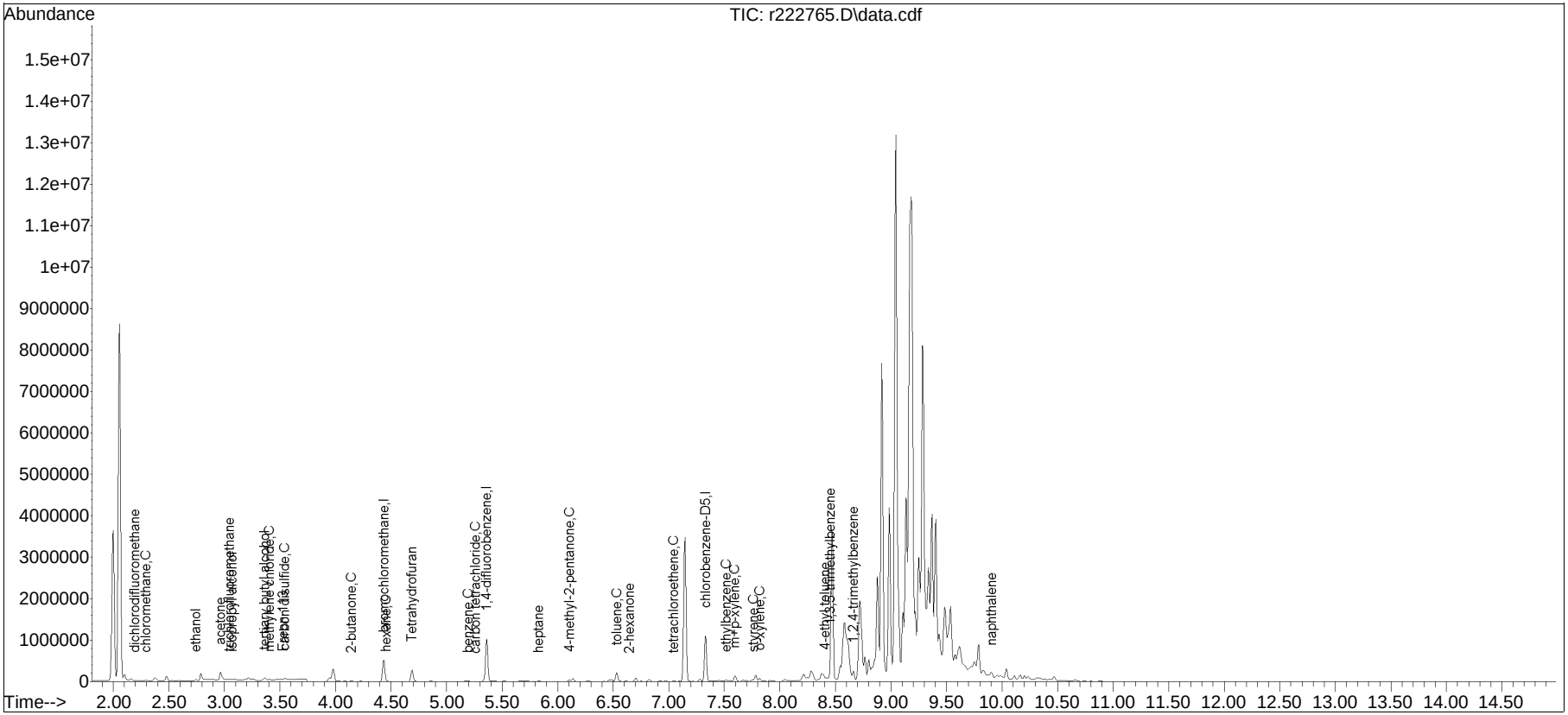
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301T\r222756.D
Sub List : TO15-NY+Naphthalene - .

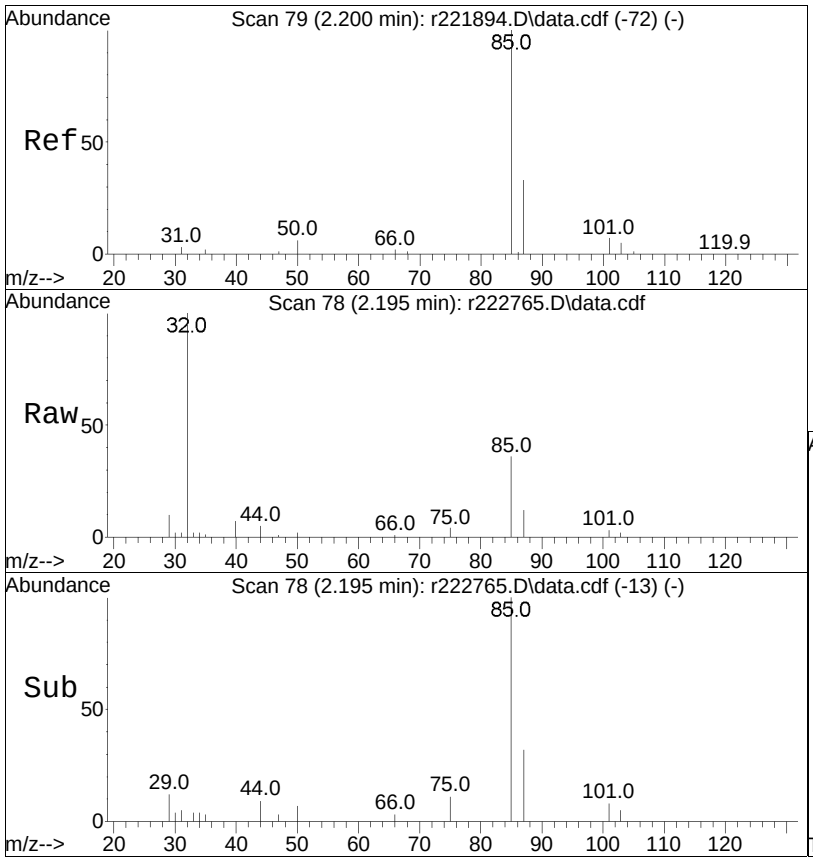
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : TO15-NY+Naphthalene - .b22\2024\03\0301T\r222756.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301T\
Data File : r222765.D
Acq On : 1 Mar 2024 7:55 PM
Operator : AIRLAB22:BJB
Sample : WG1891258-5,3,250,250
Misc : WG1891258,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:07:16 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

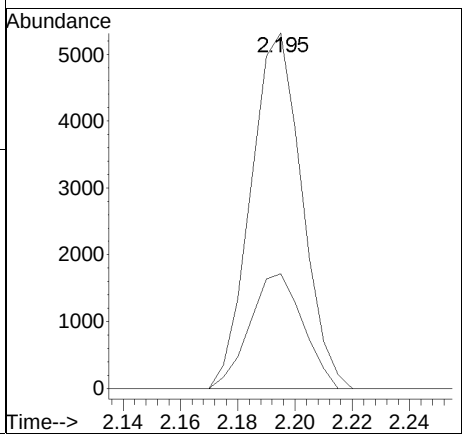


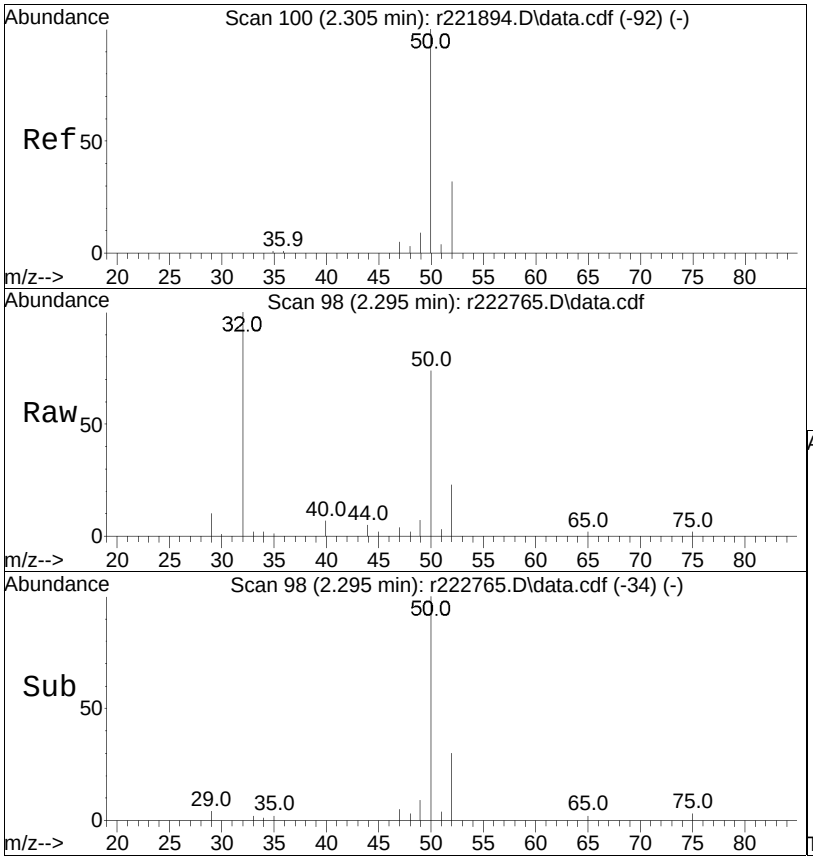


#5
dichlorodifluoromethane
Concen: 0.36 ppbV
RT: 2.195 min Scan# 78
Delta R.T. -0.005 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 85 Resp: 6564

Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.3	39.5

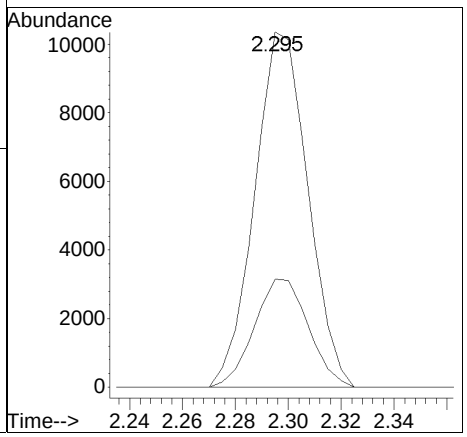


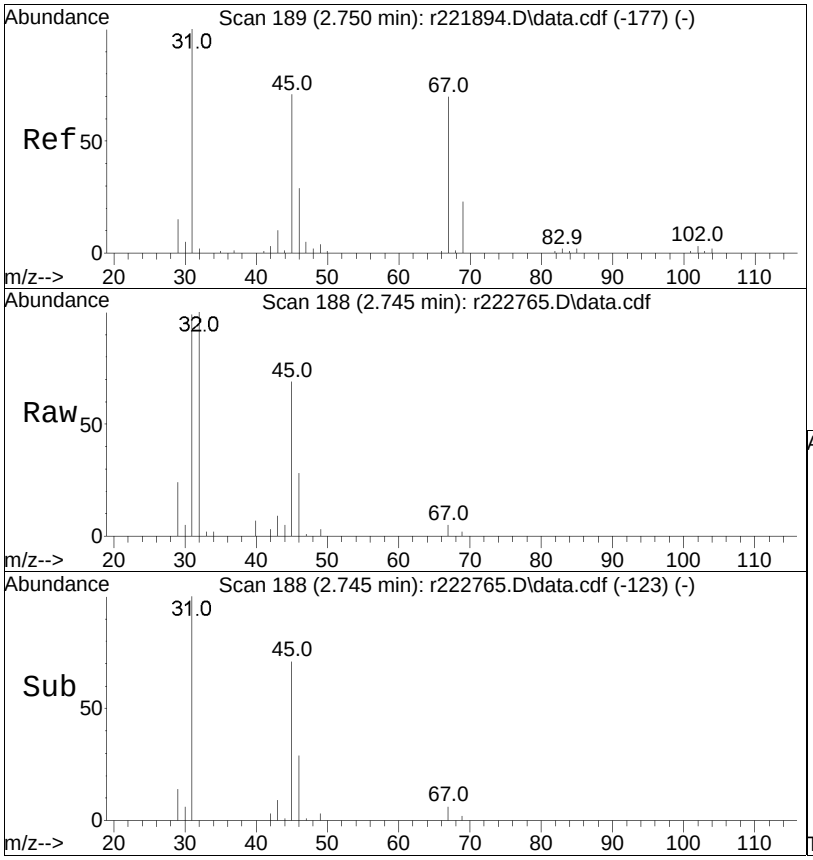


#6
chloromethane
Concen: 1.47 ppbV
RT: 2.295 min Scan# 98
Delta R.T. -0.010 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 50 Resp: 14479

Ion	Ratio	Lower	Upper
50	100		
52	30.5	25.5	38.3

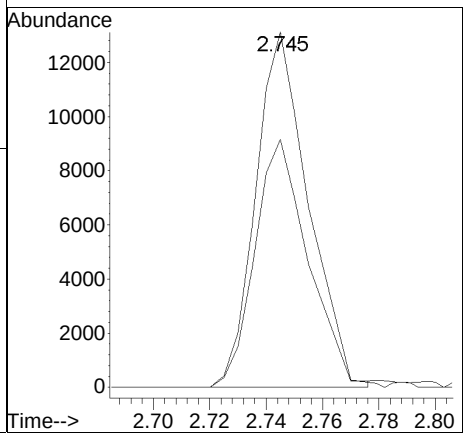


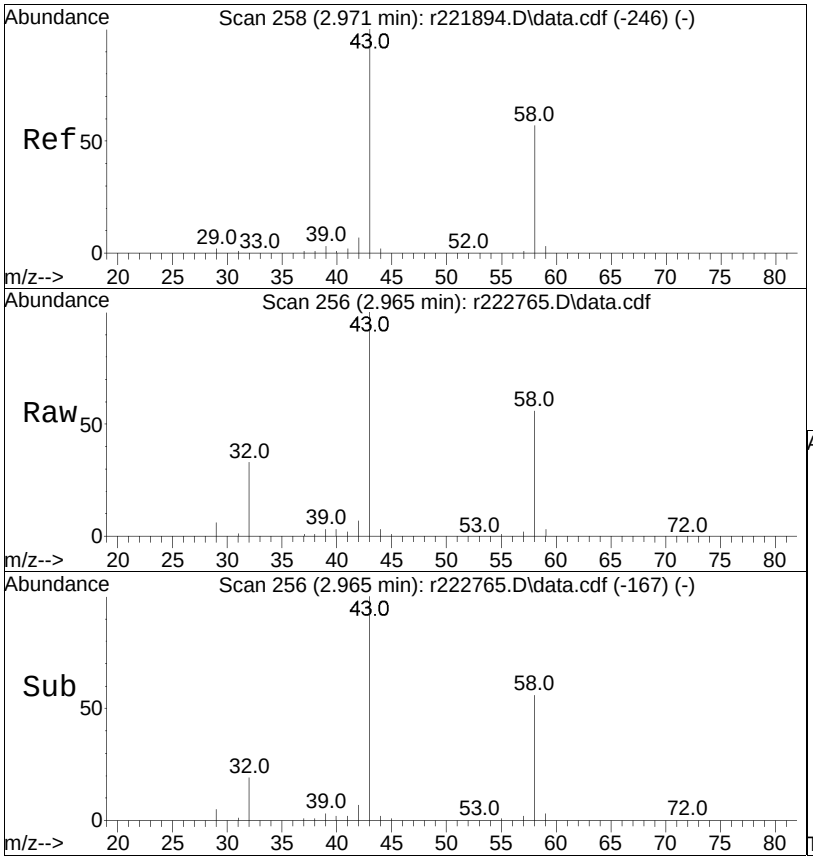


#15
ethanol
Concen: 4.61 ppbV
RT: 2.745 min Scan# 188
Delta R.T. -0.005 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 31 Resp: 16679

Ion	Ratio	Lower	Upper
31	100		
45	69.8	56.6	84.8

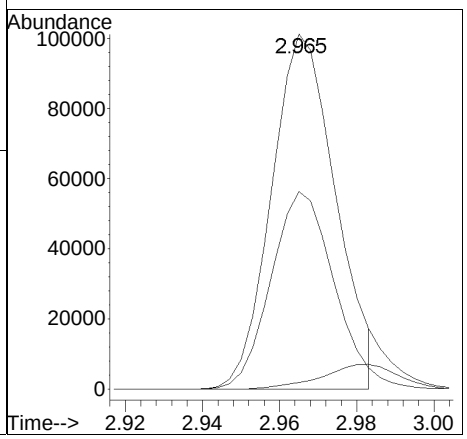


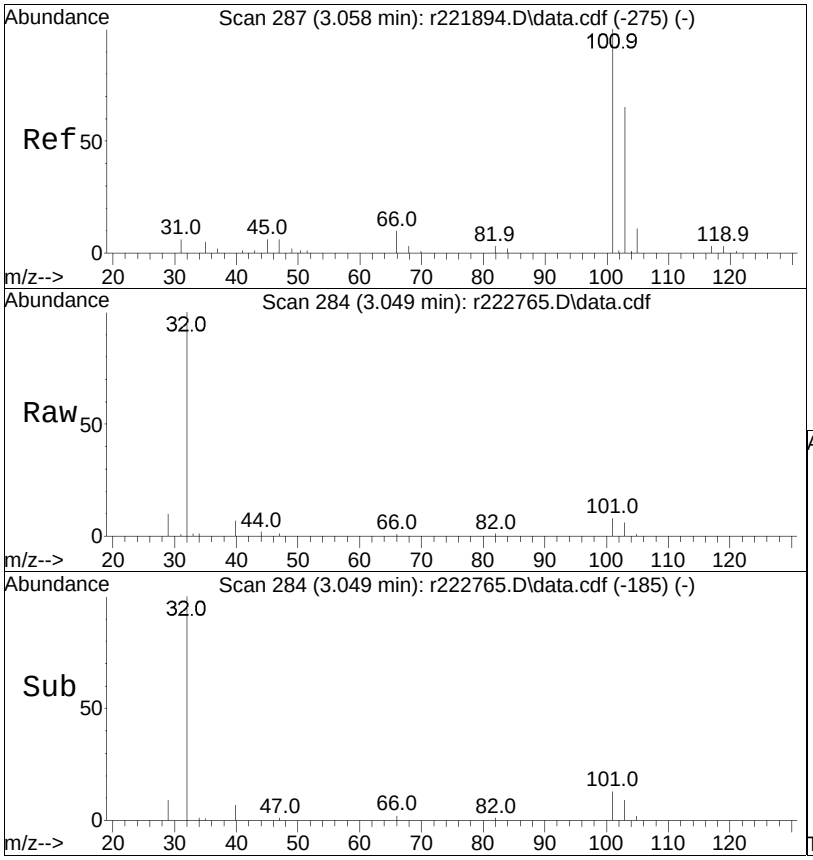


#19
acetone
Concen: 16.12 ppbV m
RT: 2.965 min Scan# 256
Delta R.T. -0.006 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 43 Resp: 116929

Ion	Ratio	Lower	Upper
43	100		
58	55.7	45.5	68.3
57	2.0	1.0	1.6#

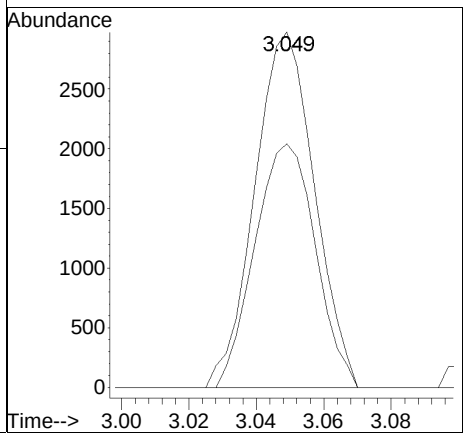


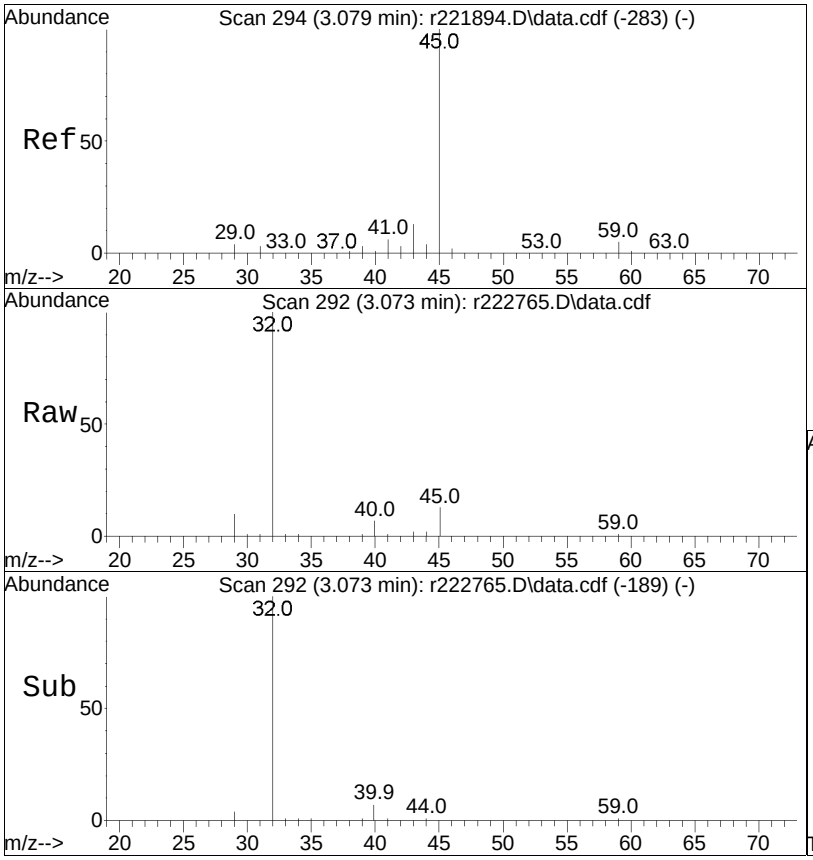


#21
trichlorofluoromethane
Concen: 0.38 ppbV
RT: 3.049 min Scan# 284
Delta R.T. -0.009 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion:101 Resp: 3667

Ion	Ratio	Lower	Upper
101	100		
103	68.6	52.2	78.4

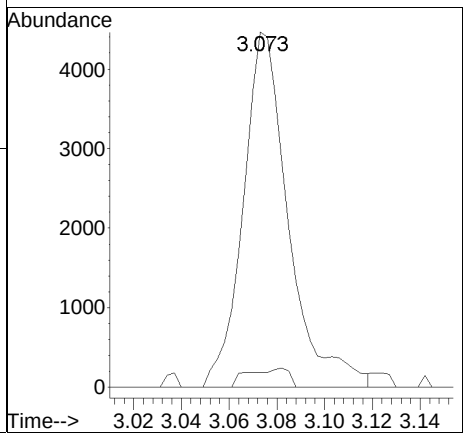


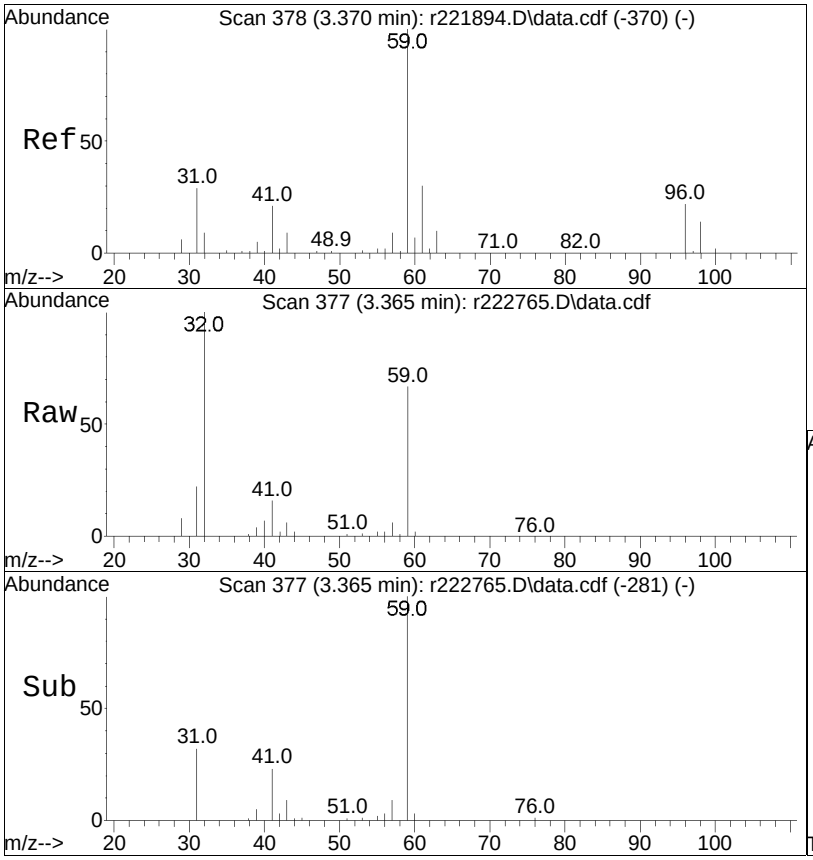


#22
isopropyl alcohol
Concen: 0.49 ppbV
RT: 3.073 min Scan# 292
Delta R.T. -0.006 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 45 Resp: 5919

Ion	Ratio	Lower	Upper
45	100		
59	4.3	4.0	6.0

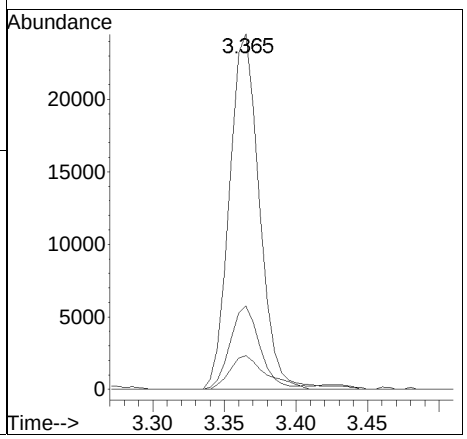


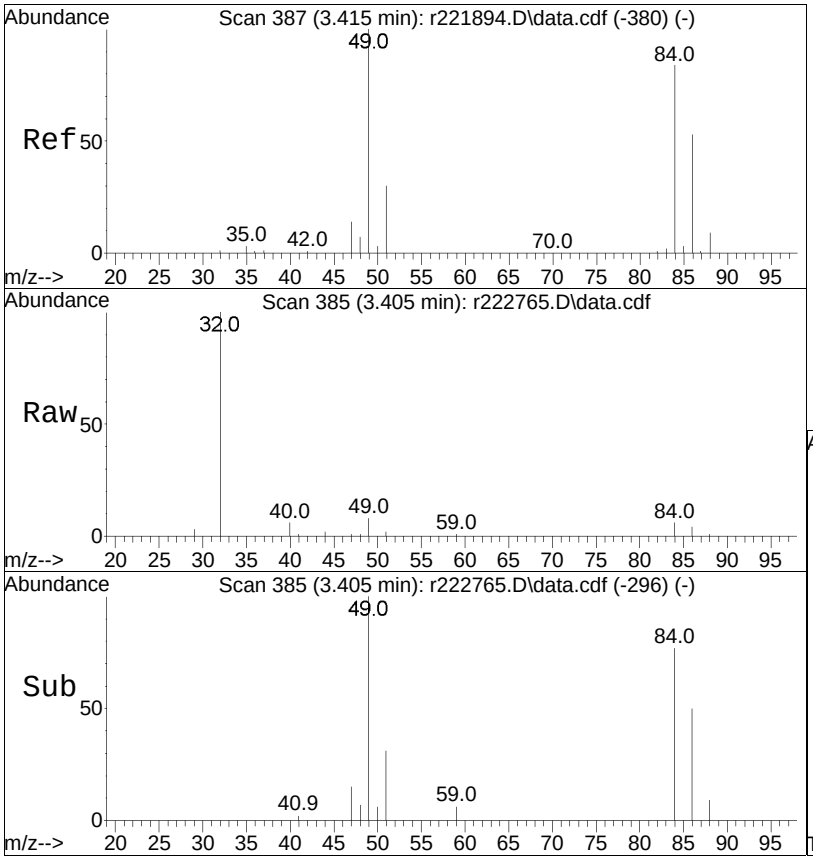


#27
tertiary butyl alcohol
Concen: 1.33 ppbV
RT: 3.365 min Scan# 377
Delta R.T. -0.005 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 59 Resp: 36027

Ion	Ratio	Lower	Upper
59	100		
41	23.5	16.9	25.3
43	9.5	7.5	11.3

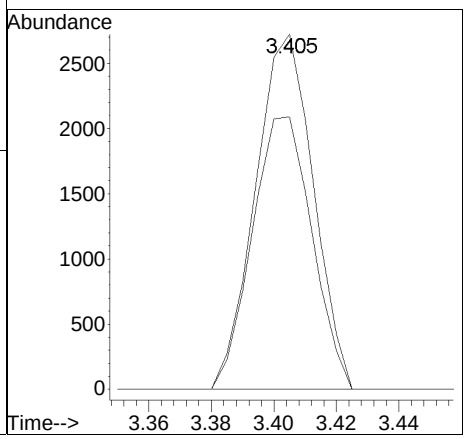


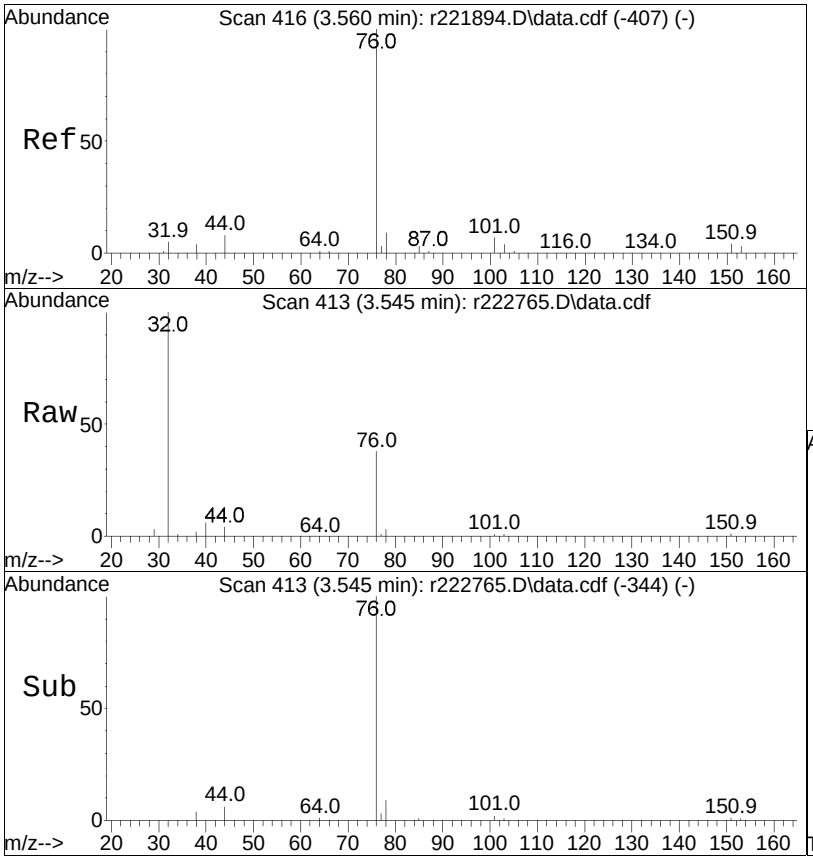


#28
methylene chloride
Concen: 0.20 ppbV
RT: 3.405 min Scan# 385
Delta R.T. -0.010 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 49 Resp: 3512

Ion	Ratio	Lower	Upper
49	100		
84	76.7	67.2	100.8

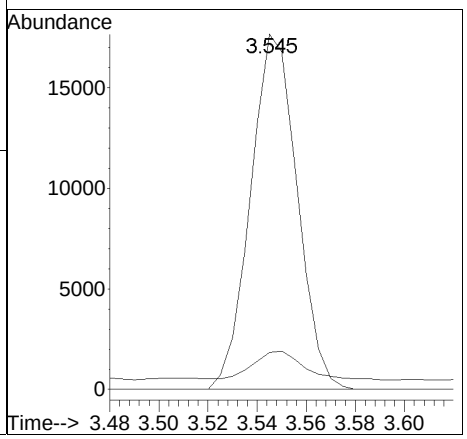


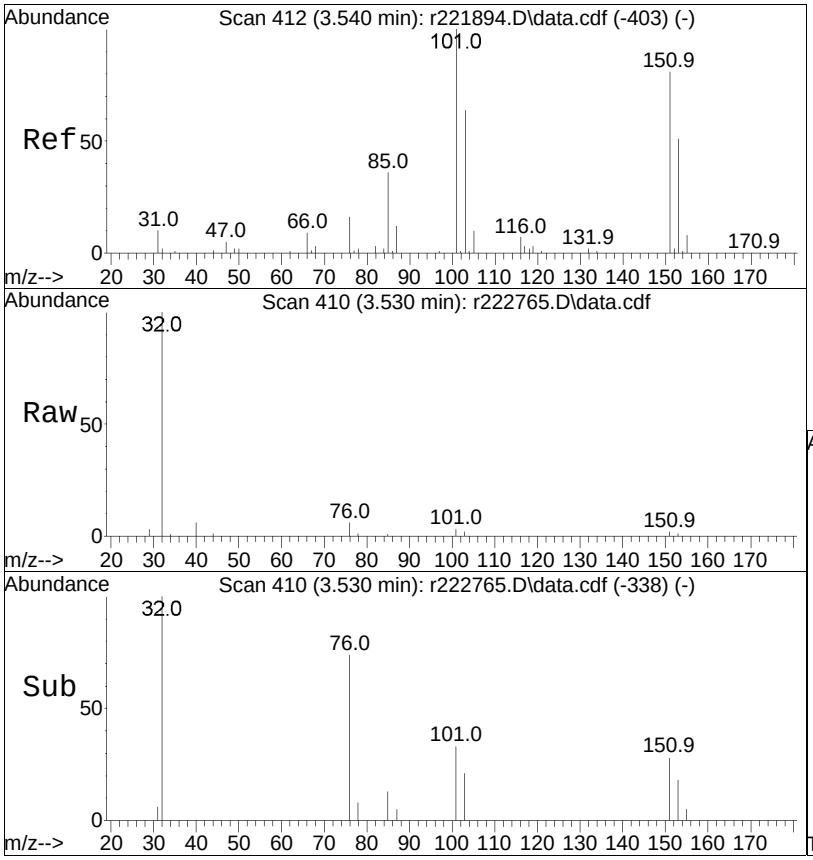


#30
carbon disulfide
Concen: 0.47 ppbV
RT: 3.545 min Scan# 413
Delta R.T. -0.015 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 76 Resp: 23329

Ion	Ratio	Lower	Upper
76	100		
44	10.4	6.8	10.2#

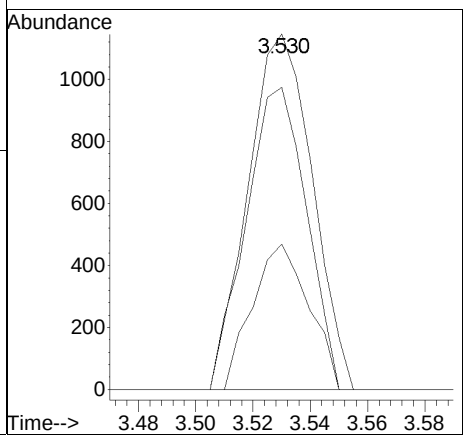


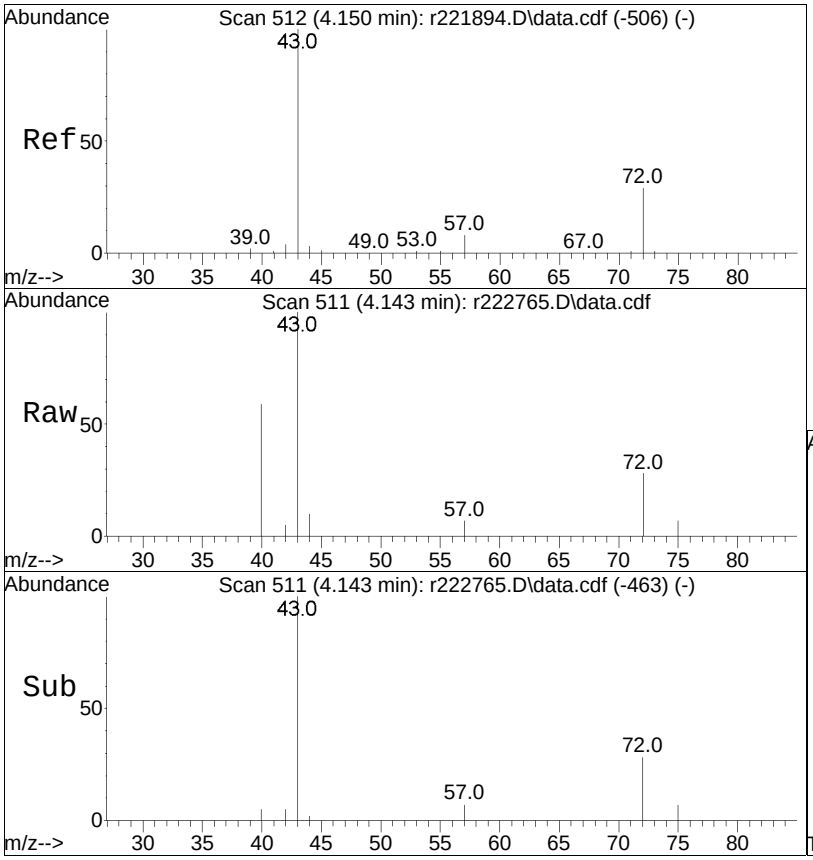


#31
Freon 113
Concen: 0.07 ppbV
RT: 3.530 min Scan# 410
Delta R.T. -0.010 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion:101 Resp: 1791

Ion	Ratio	Lower	Upper
101	100		
85	40.9	28.6	43.0
151	85.0	64.6	97.0

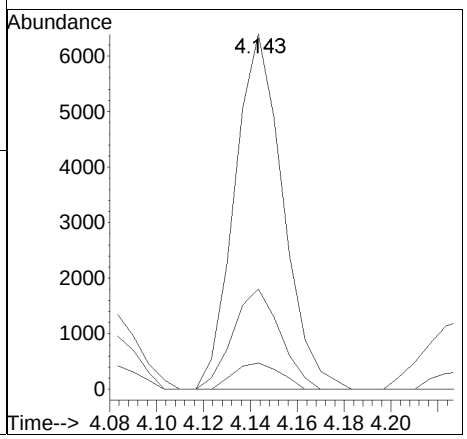


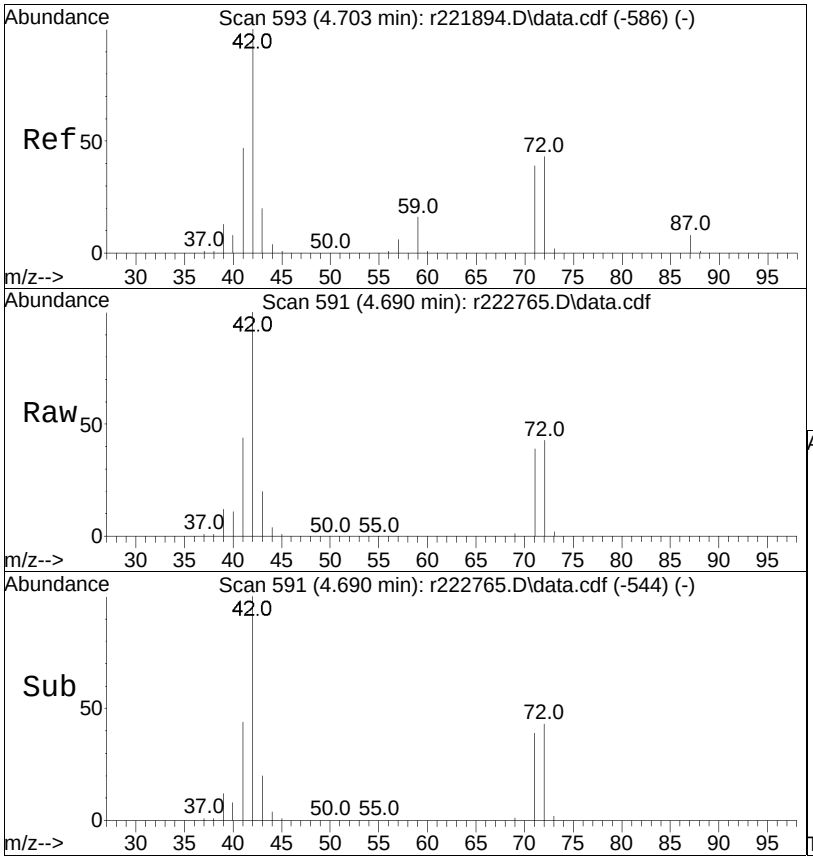


#36
2-butanone
Concen: 0.25 ppbV
RT: 4.143 min Scan# 511
Delta R.T. -0.007 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 43 Resp: 9178

Ion	Ratio	Lower	Upper
43	100		
72	28.3	23.0	34.6
57	7.4	6.3	9.5

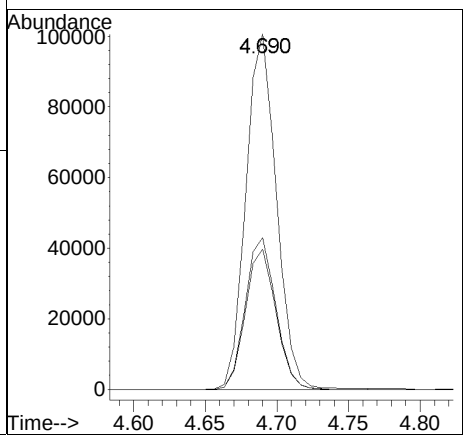


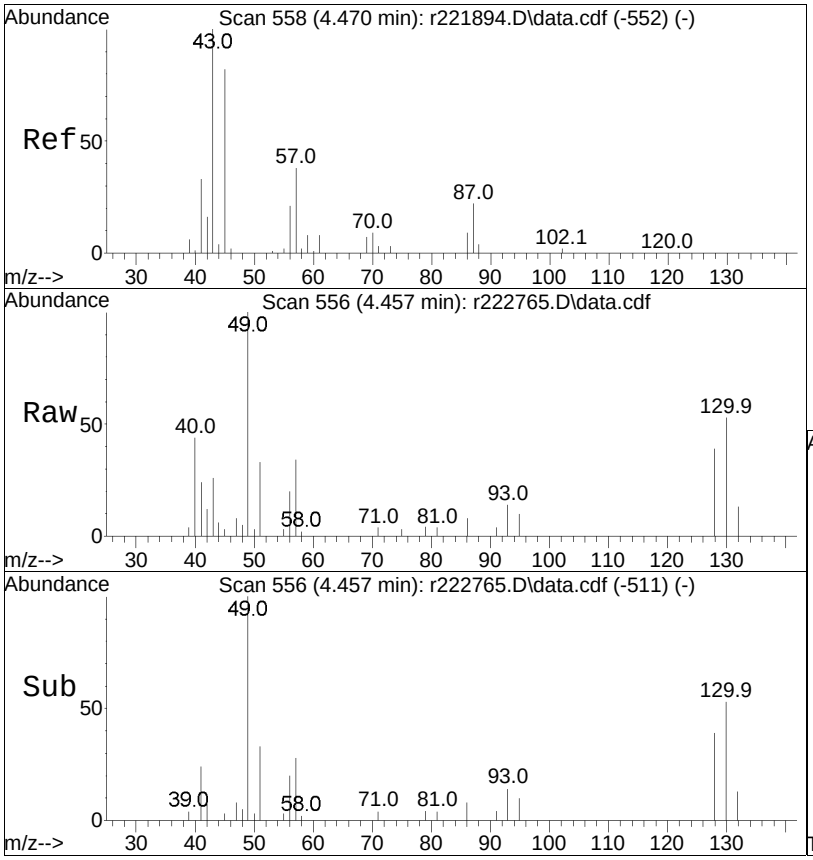


#40
Tetrahydrofuran
Concen: 6.40 ppbV
RT: 4.690 min Scan# 591
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 42 Resp: 149156

Ion	Ratio	Lower	Upper
42	100		
71	39.5	31.4	47.2
72	42.7	34.3	51.5

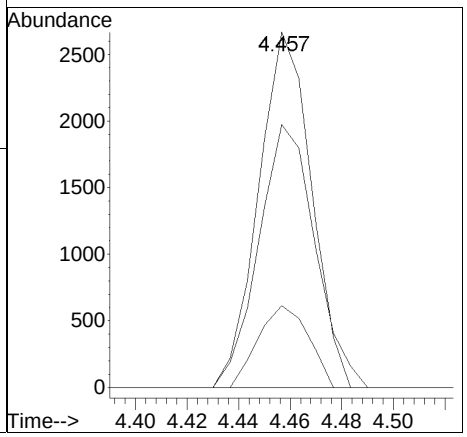


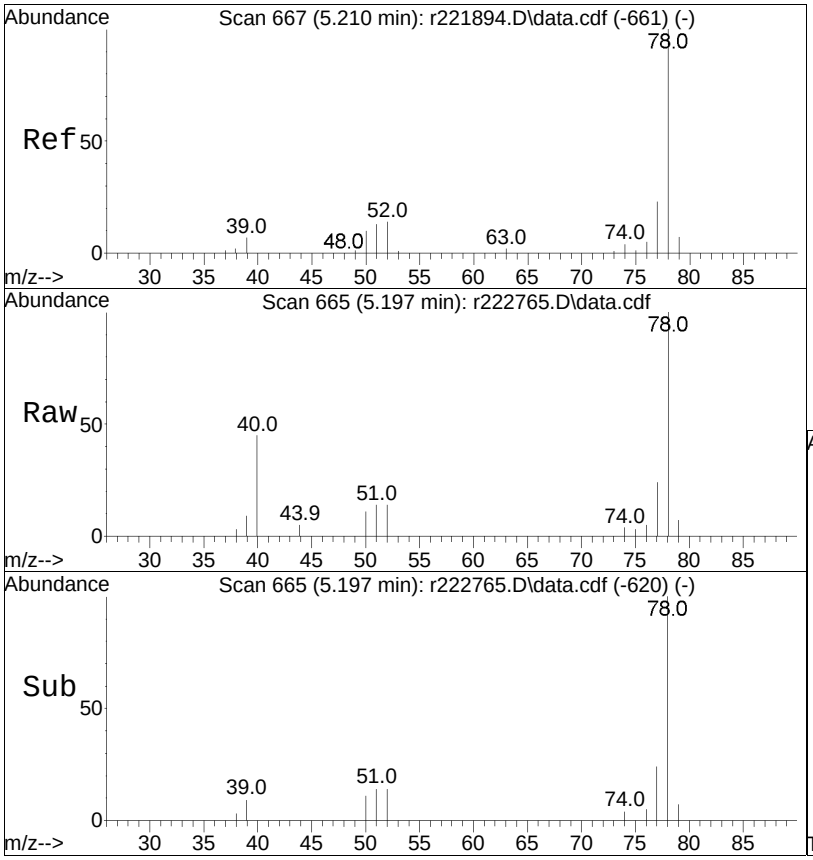


#44
hexane
Concen: 0.15 ppbV
RT: 4.457 min Scan# 556
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 57 Resp: 3791

Ion	Ratio	Lower	Upper
57	100		
43	74.0	210.8	316.2#
86	23.0	17.9	26.9

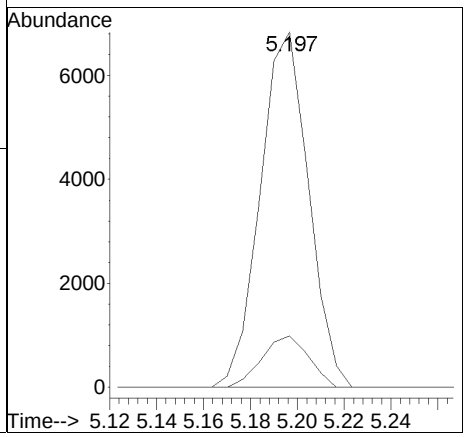


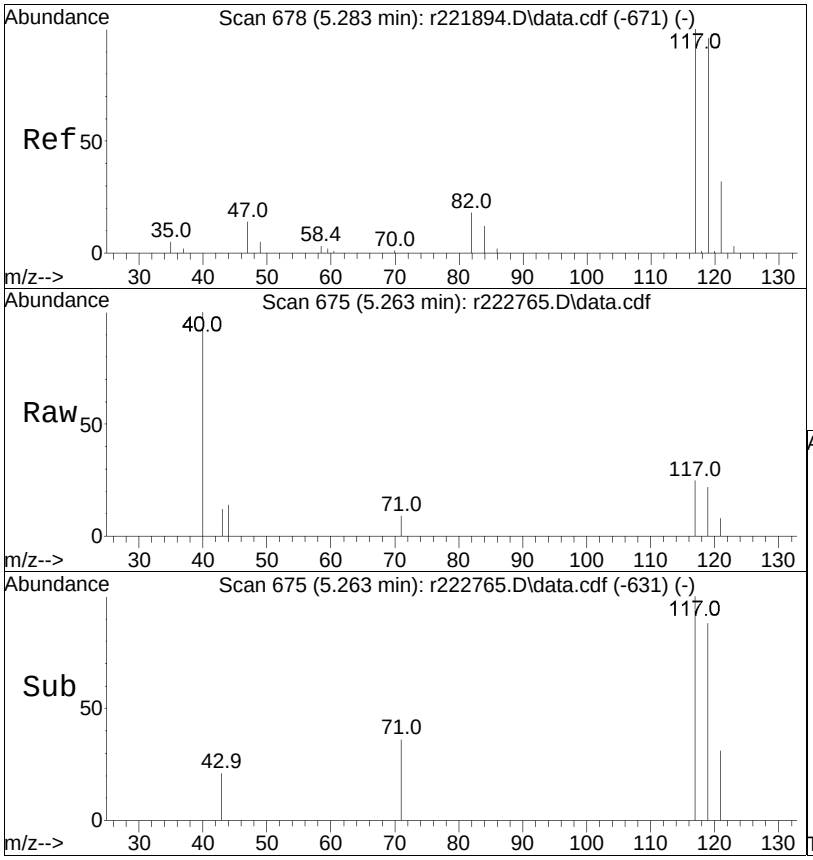


#50
benzene
Concen: 0.19 ppbV
RT: 5.197 min Scan# 665
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 78 Resp: 9805

Ion	Ratio	Lower	Upper
78	100		
52	14.5	11.3	16.9

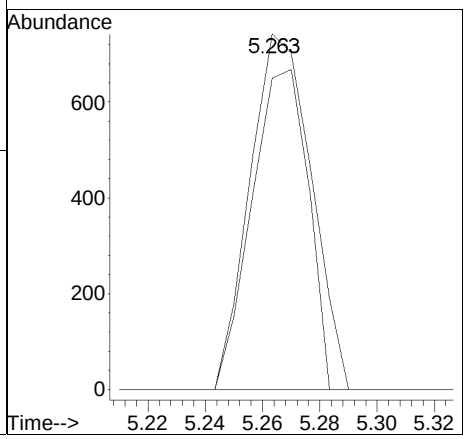


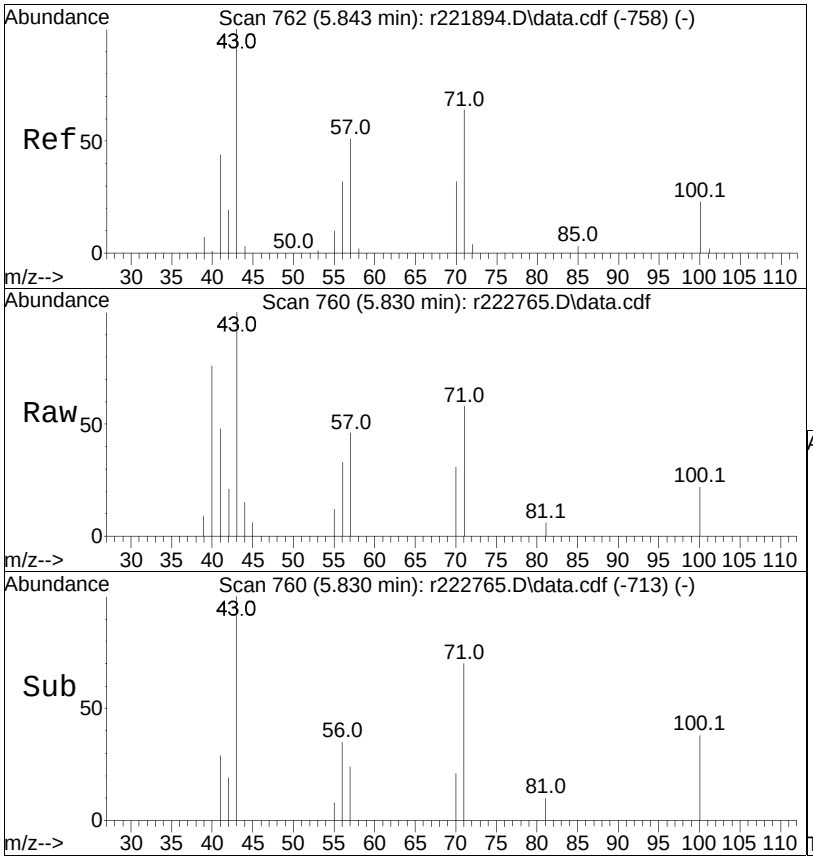


#52
carbon tetrachloride
Concen: 0.06 ppbV
RT: 5.263 min Scan# 675
Delta R.T. -0.020 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion:117 Resp: 1108

Ion	Ratio	Lower	Upper
117	100		
119	87.6	76.5	114.7
82	0.0	14.7	22.1#

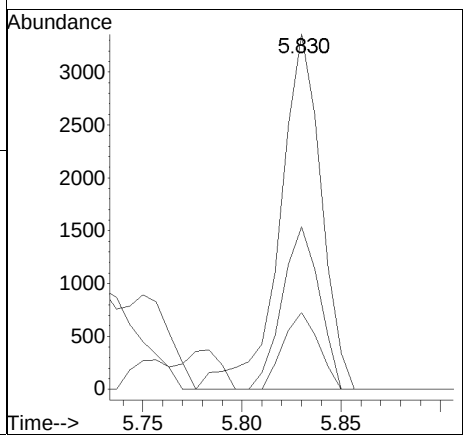


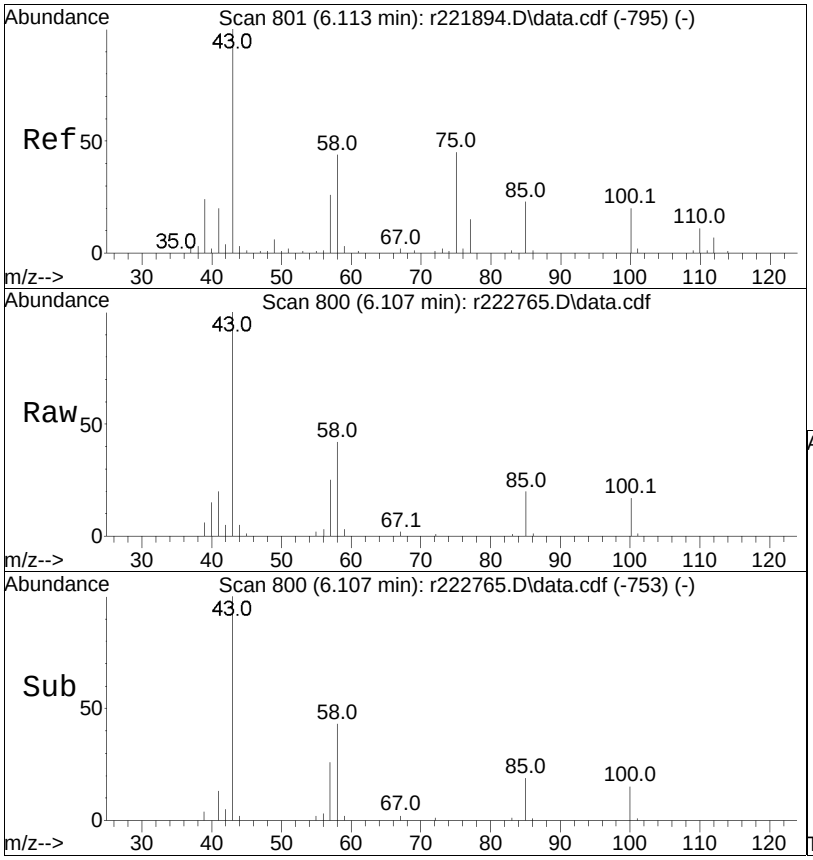


#62
heptane
Concen: 0.16 ppbV
RT: 5.830 min Scan# 760
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 43 Resp: 4914

Ion	Ratio	Lower	Upper
43	100		
57	45.7	40.4	60.6
100	21.6	19.0	28.6

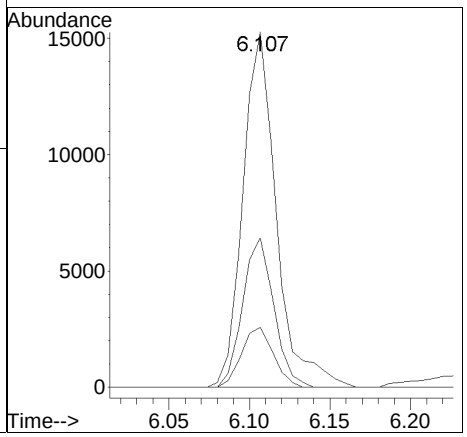


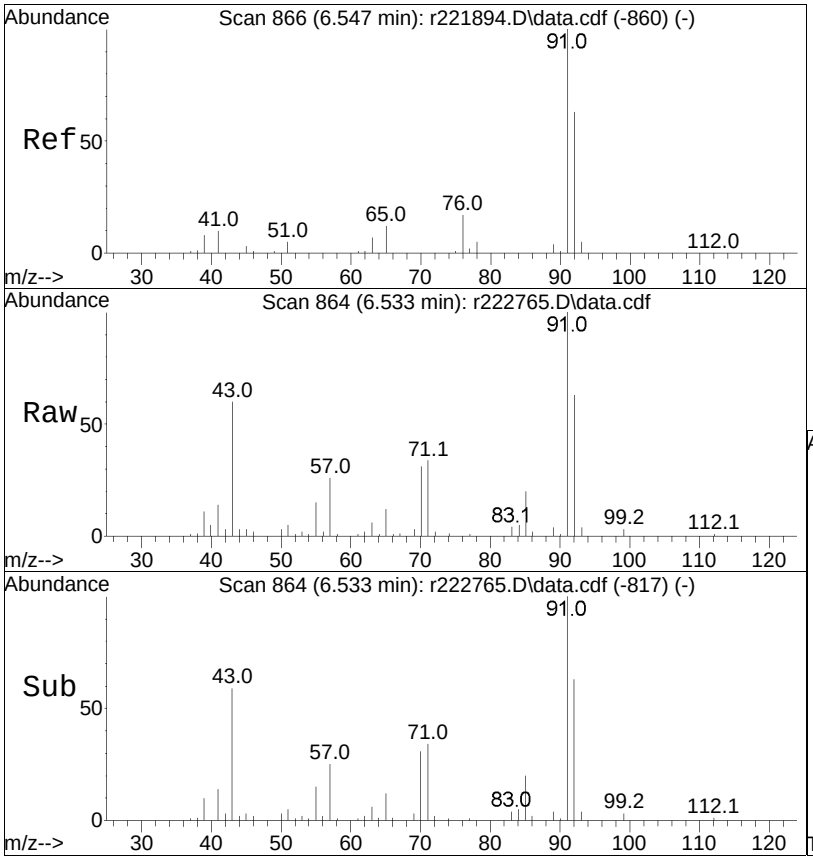


#64
4-methyl-2-pentanone
Concen: 0.63 ppbV
RT: 6.107 min Scan# 800
Delta R.T. -0.007 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 43 Resp: 22046

Ion	Ratio	Lower	Upper
43	100		
58	42.1	34.9	52.3
100	16.9	16.1	24.1

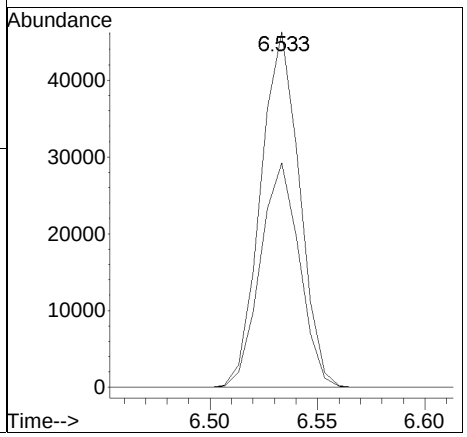


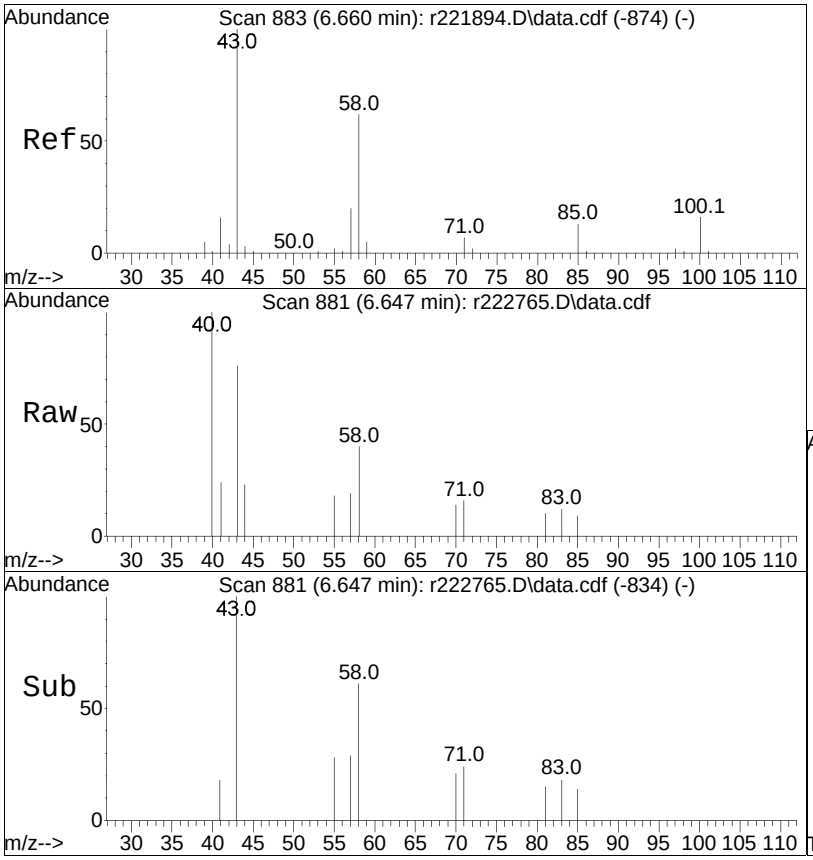


#68
toluene
Concen: 0.87 ppbV
RT: 6.533 min Scan# 864
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 91 Resp: 58258

Ion	Ratio	Lower	Upper
91	100		
92	63.1	50.7	76.1

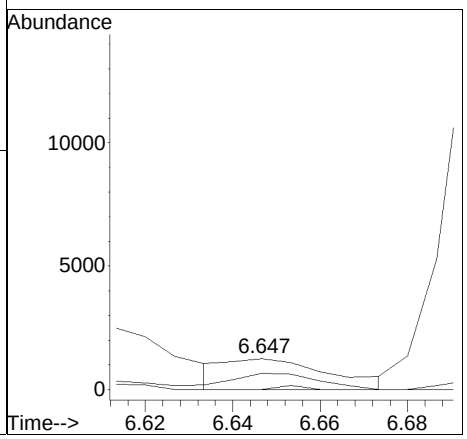


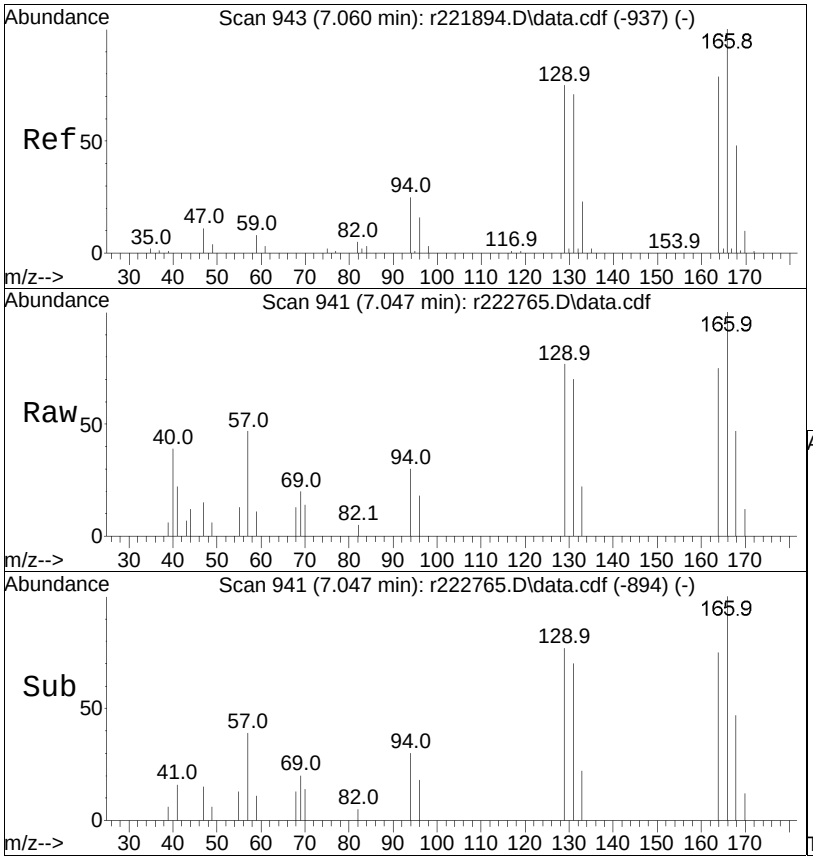


#72
2-hexanone
Concen: 0.05 ppbV m
RT: 6.647 min Scan# 881
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 43 Resp: 2077

Ion	Ratio	Lower	Upper
43	100		
58	52.7	49.2	73.8
100	0.0	12.4	18.6#

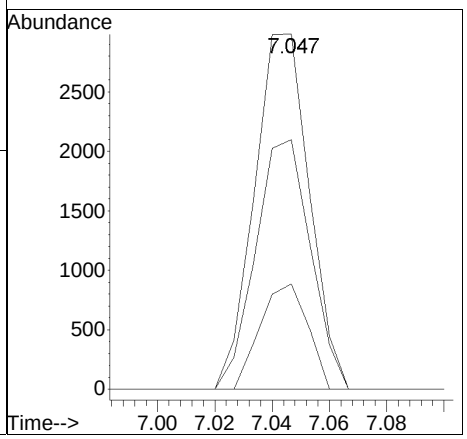


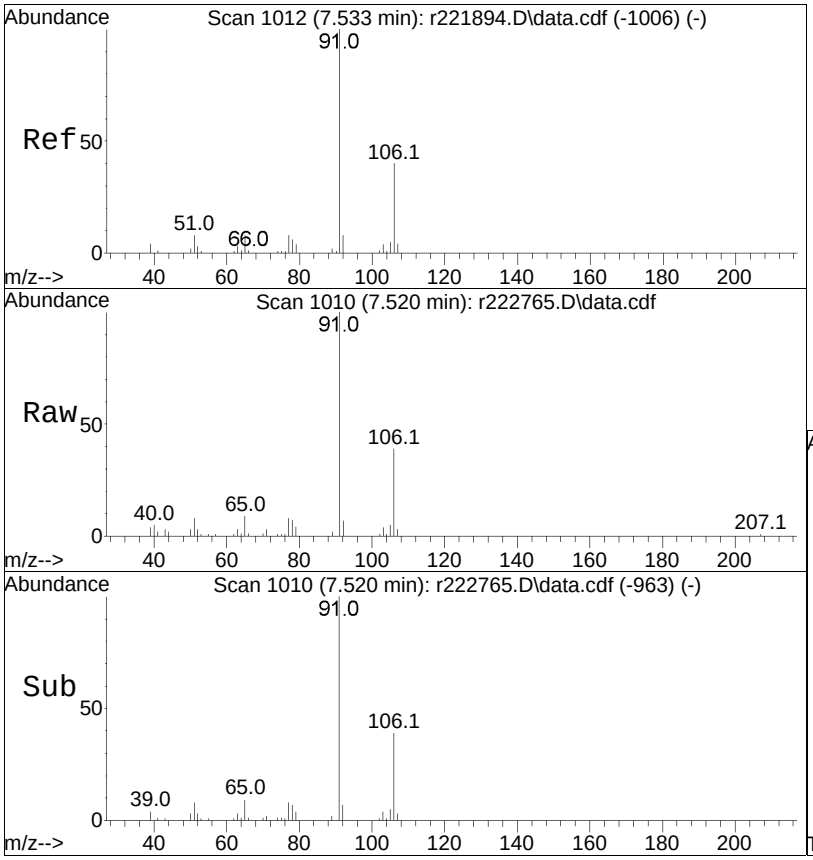


#78
tetrachloroethene
Concen: 0.15 ppbV
RT: 7.047 min Scan# 941
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion:166 Resp: 3993

Ion	Ratio	Lower	Upper
166	100		
131	70.3	56.9	85.3
94	29.7	19.8	29.8

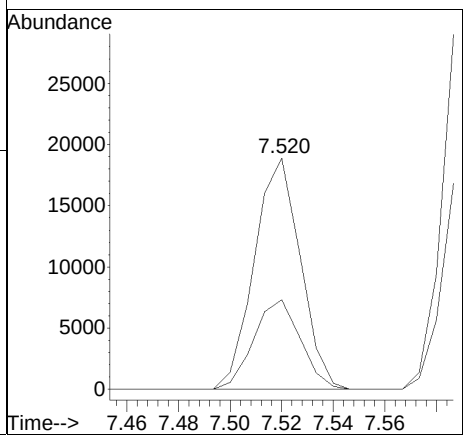


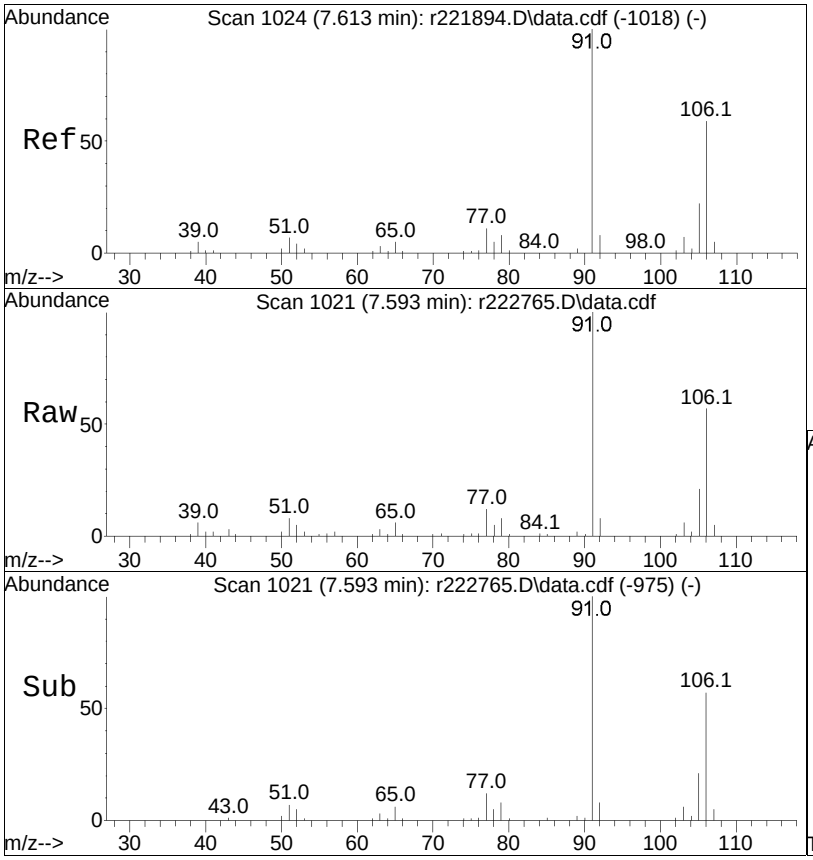


#81
ethylbenzene
Concen: 0.29 ppbV
RT: 7.520 min Scan# 1010
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 91 Resp: 23460

Ion	Ratio	Lower	Upper
91	100		
106	38.8	31.7	47.5

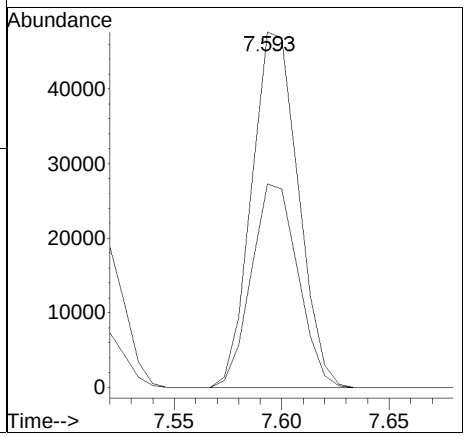


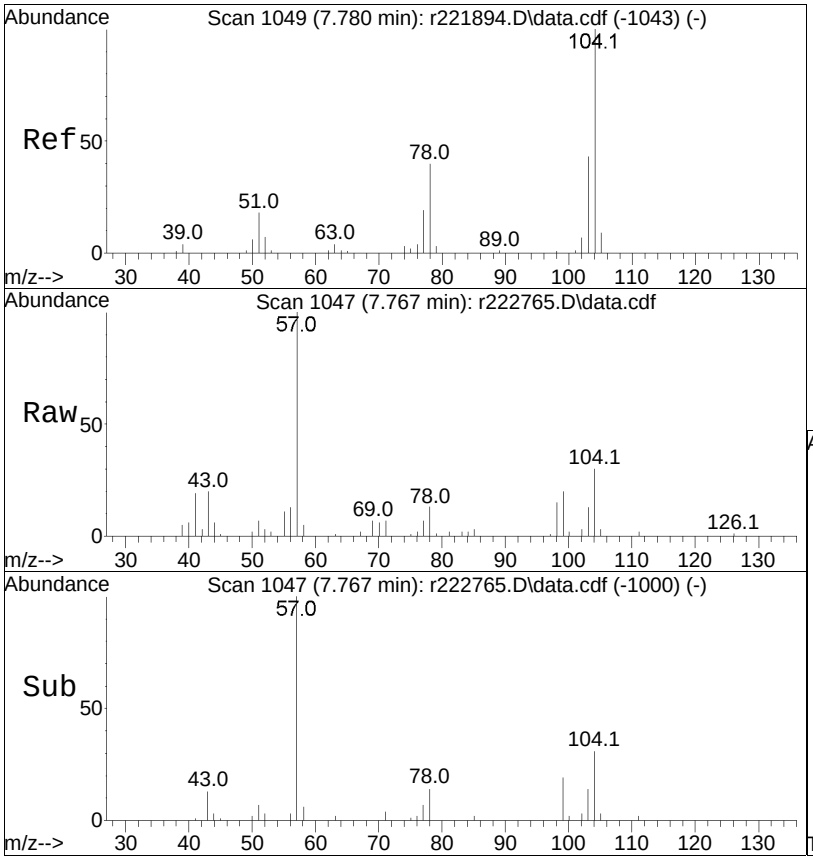


#83
m+p-xylene
Concen: 1.14 ppbV
RT: 7.593 min Scan# 1021
Delta R.T. -0.020 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 91 Resp: 71840

Ion	Ratio	Lower	Upper
91	100		
106	57.2	47.4	71.2

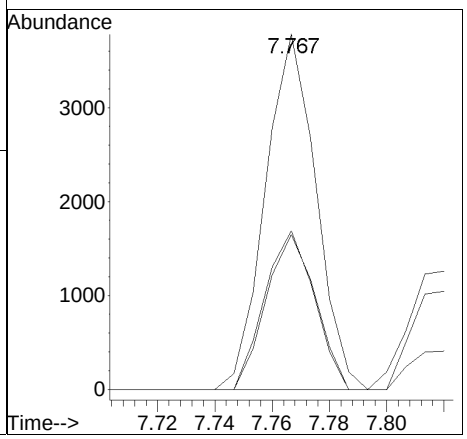


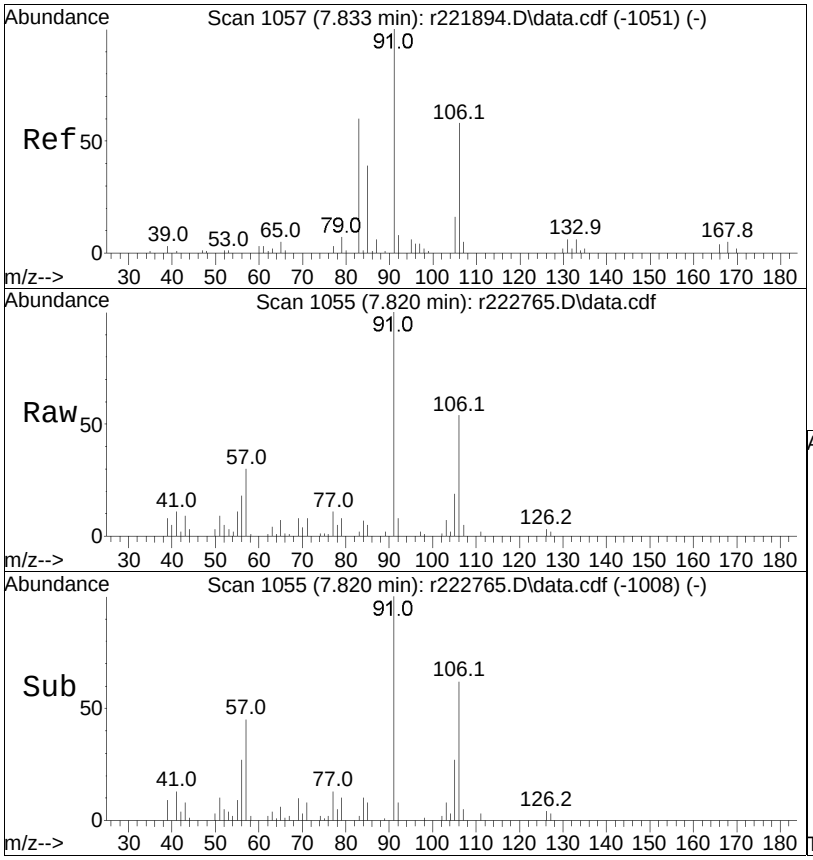


#85
styrene
Concen: 0.08 ppbV
RT: 7.767 min Scan# 1047
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion:104 Resp: 4643

Ion	Ratio	Lower	Upper
104	100		
103	44.7	34.3	51.5
78	43.6	32.3	48.5

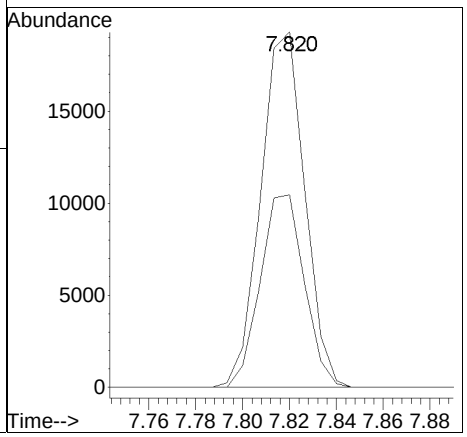


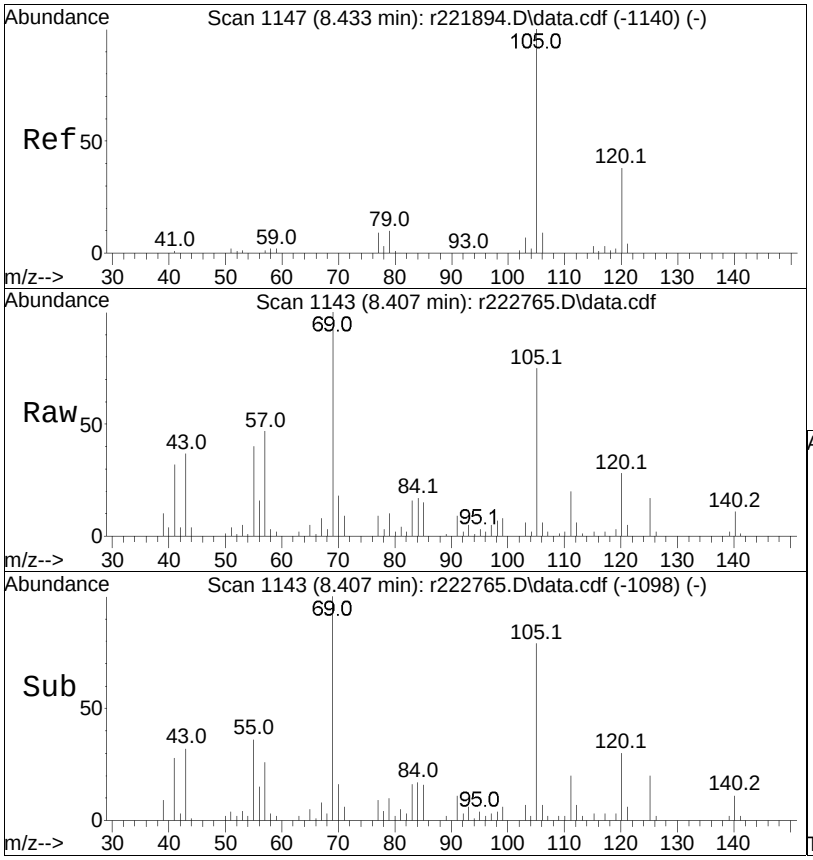


#87
o-xylene
Concen: 0.41 ppbV
RT: 7.820 min Scan# 1055
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 91 Resp: 25162

Ion	Ratio	Lower	Upper
91	100		
106	54.2	46.2	69.4

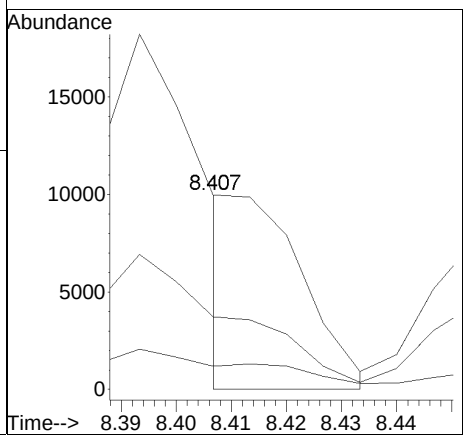


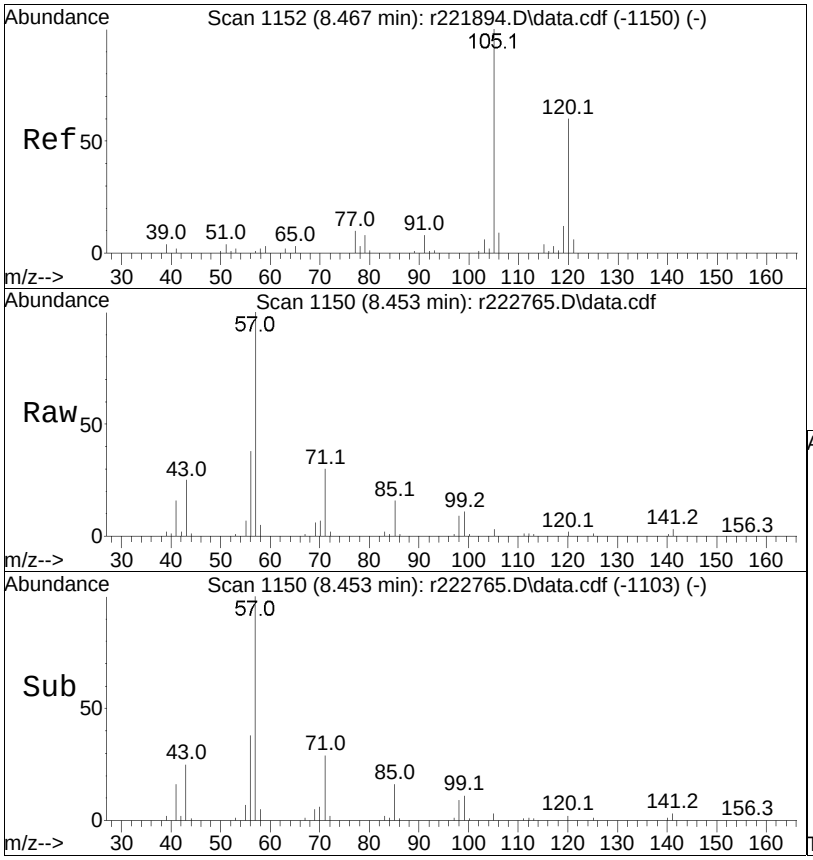


#96
4-ethyl toluene
Concen: 0.10 ppbV m
RT: 8.407 min Scan# 1143
Delta R.T. -0.027 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion:105 Resp: 8845

Ion	Ratio	Lower	Upper
105	100		
120	37.3	30.7	46.1
91	12.0	7.2	10.8#

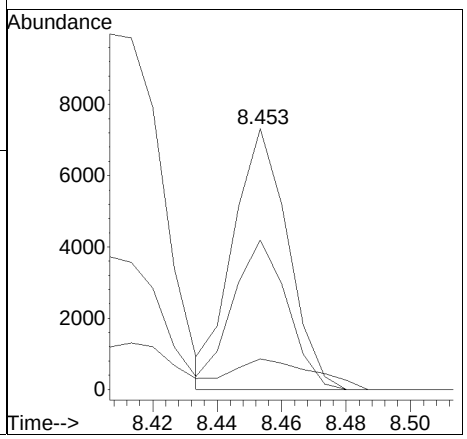


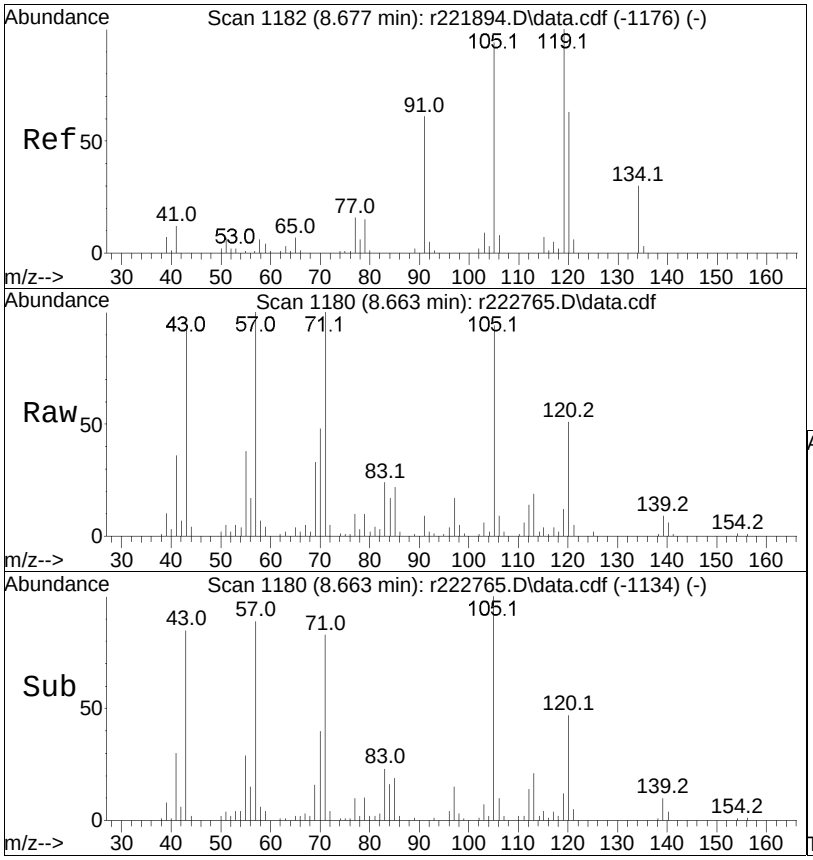


#97
1,3,5-trimethylbenzene
Concen: 0.12 ppbV
RT: 8.453 min Scan# 1150
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion:105 Resp: 8649

Ion	Ratio	Lower	Upper
105	100		
120	57.4	47.8	71.8
91	11.7	6.6	10.0#

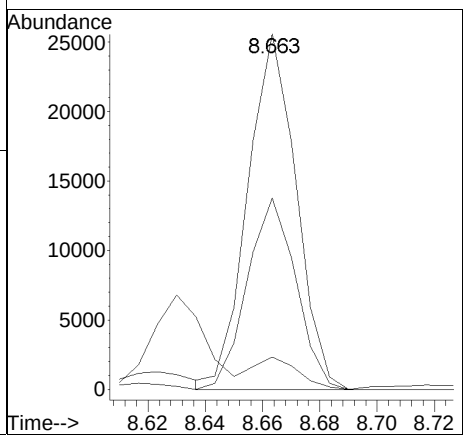




#99
1,2,4-trimethylbenzene
Concen: 0.42 ppbV
RT: 8.663 min Scan# 1180
Delta R.T. -0.013 min
Lab File: r222765.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion:105 Resp: 30041

Ion	Ratio	Lower	Upper
105	100		
120	53.9	53.8	80.8
91	9.1	52.2	78.2#

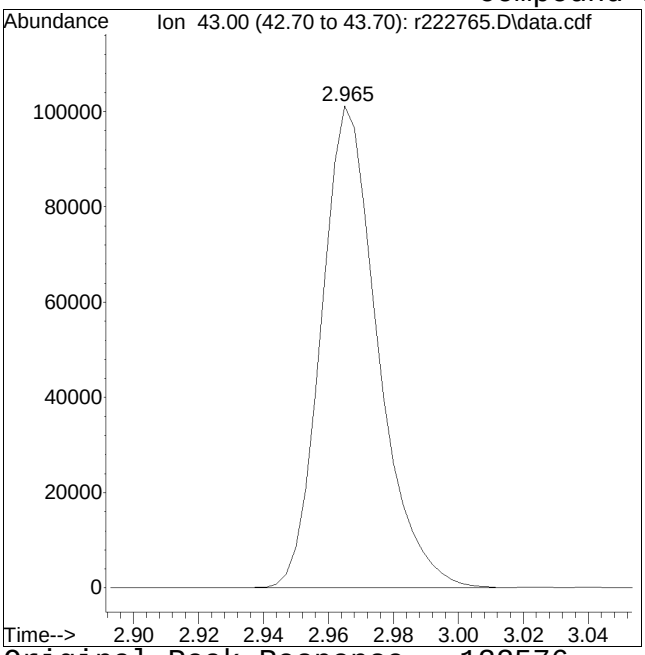


Manual Integration Report

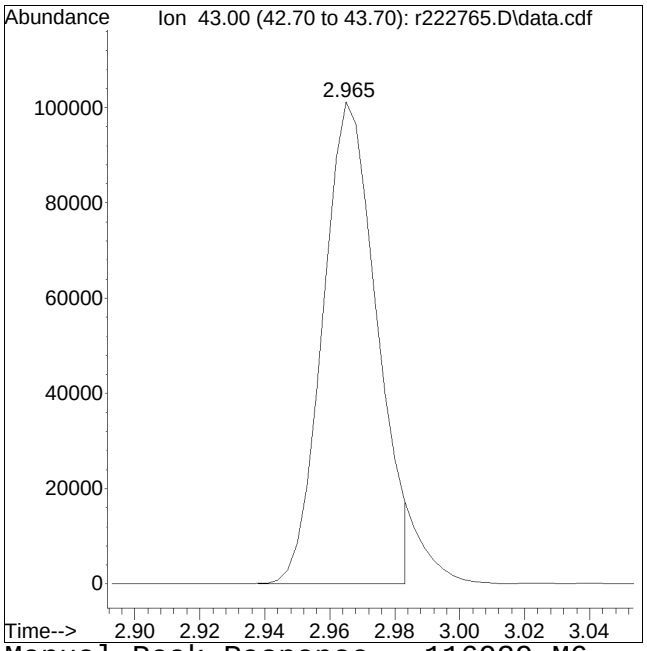
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r222765.D
Date Inj'd : 3/1/2020 0:7: 5
Sample : WG1891258-5,3,250,250

Method : TFS22_231129.M
Operator : AIRLAB22:BJB
Instrument :
Quant Date : 3/2/2024 8:07 am

Compound #19: acetone



Original Peak Response = 122576



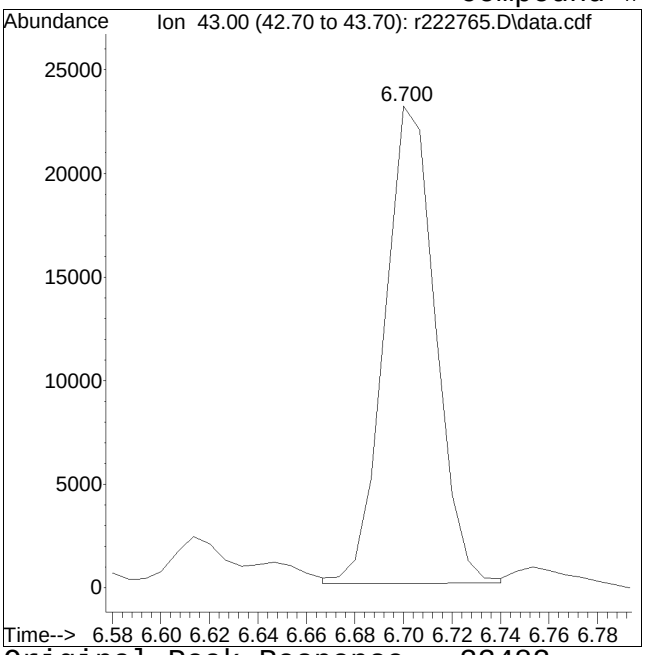
Manual Peak Response = 116929 M6

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

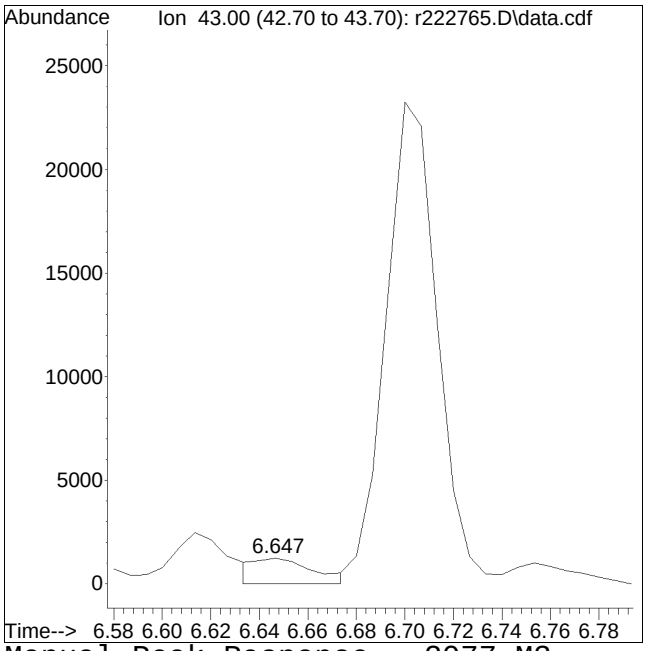
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222765.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:7: 5 Instrument :
Sample : WG1891258-5,3,250,250 Quant Date : 3/2/2024 8:07 am

Compound #72: 2-hexanone



Original Peak Response = 33482



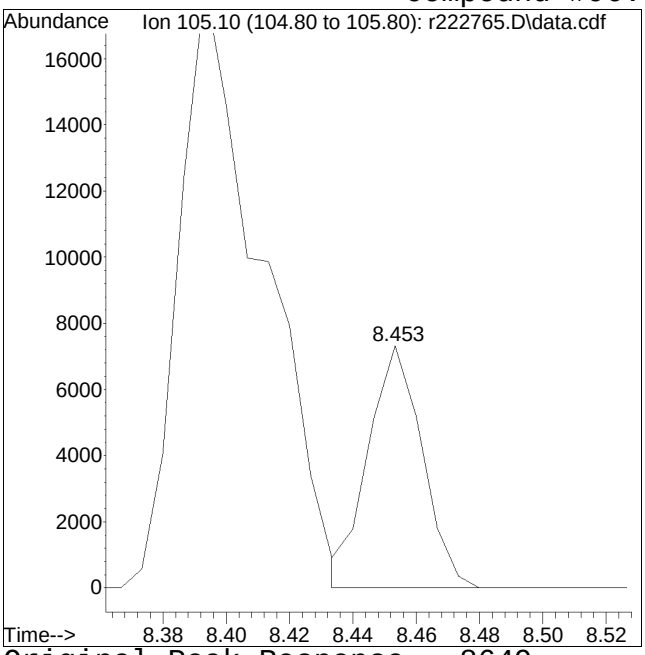
Manual Peak Response = 2077 M3

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

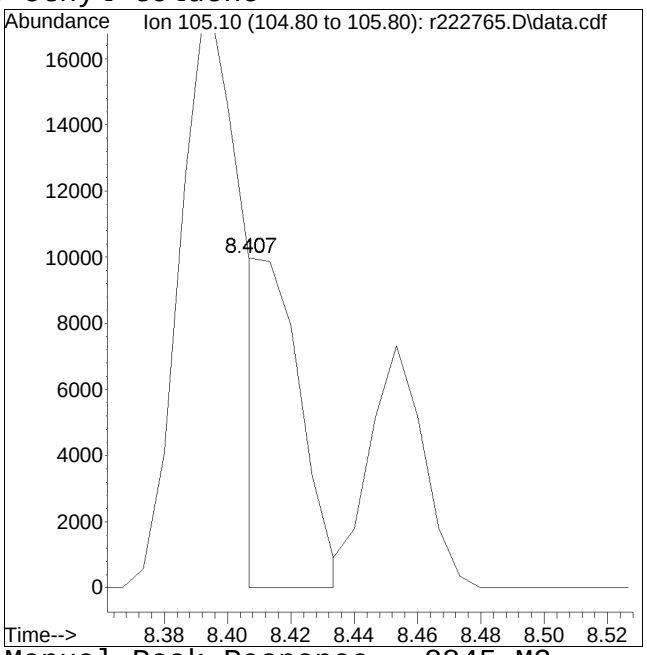
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r222765.D Operator : AIRLAB22:BJB
Date Inj'd : 3/1/2020 0:7: 5 Instrument :
Sample : WG1891258-5,3,250,250 Quant Date : 3/2/2024 8:07 am

Compound #96: 4-ethyl toluene



Original Peak Response = 8649



Manual Peak Response = 8845 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)

Mar 05 2024, 09:56 am

Work Group: WG1889452 for Department: 3 GC/MS

Created: 26-FEB-24 Due: Operator: JFI

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2407657-01	EFFLUENT	S	TO15-LL	SOIL_VAPOR	DONE	U	0310	0223	S0	Can-6
L2407678-06	SS-01	S	TO15-LL	SOIL_VAPOR	DONE	U	0308	0223	S0	Can-1
L2407678-07	SS-02	S	TO15-LL	SOIL_VAPOR	DONE	U	0308	0223	S0	Can-1
L2407678-08	SS-03	S	TO15-LL	SOIL_VAPOR	DONE	U	0308	0223	S0	Can-1
L2407678-09	DUP-01-SS	S	TO15-LL	SOIL_VAPOR	DONE	U	0308	0223	S0	Can-1
L2409206-02	IA-01_20240220	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-04	IA-02_20240220	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-06	IA-03_20240220	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-08	IA-04_20240220	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-10	IA-05_20240220	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-12	IA-06_20240220	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-14	IA-07_20240220	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-15	AA-01_20240220	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
WG1889452-1	MS BFB Tune Standard	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1889452-2	Continuing Calibrati	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1889452-3	Laboratory Control S	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1889452-4	Laboratory Method Bl	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1889452-5	Duplicate Sample	S	TO15-LL	SOIL_VAPOR	DONE	U				

Comments:

WG1889452-5 L2409206-08

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 05 2024, 09:56 am

Work Group: WG1891258 for Department: 3 GC/MS

Created: 01-MAR-24 Due: Operator: JMB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2409004-01	SS-8_20240220	S	TO15-LL	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-6
L2409206-01	V-01_20240220	S	TO15-LL	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-6
L2409206-03	V-02_20240220	S	TO15-LL	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-6
L2409206-05	V-03_20240220	S	TO15-LL	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-6
L2409206-07	V-04_20240220	S	TO15-LL	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-6
L2409206-09	V-05_20240220	S	TO15-LL	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-6
L2409206-11	V-06_20240220	S	TO15-LL	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-6
L2409206-13	V-07_20240220	S	TO15-LL	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-6
L2409500-01	SVE-1	S	TO15-LL	SOIL_VAPOR	DONE	U	0322	0228	S0	Tedlar-Poly5
L2409500-02	SVE-2	S	TO15-LL	SOIL_VAPOR	DONE	U	0322	0228	S0	Tedlar-Poly5
L2409500-03	SVE-3	S	TO15-LL	SOIL_VAPOR	DONE	U	0322	0228	S0	Tedlar-Poly5
L2409500-04	SVE-4	S	TO15-LL	SOIL_VAPOR	DONE	U	0322	0228	S0	Tedlar-Poly5
L2409500-06	SVE-INT	S	TO15-LL	SOIL_VAPOR	DONE	U	0322	0228	S0	Tedlar-Poly5
L2409500-07	SVE-EFF	S	TO15-LL	SOIL_VAPOR	DONE	U	0322	0228	S0	Tedlar-Poly5
L2409604-03	SV-4040-12	S	TO15-LL	SOIL_VAPOR	DONE	U	0323	0229	S0	Can-2.7
WG1891258-1	MS BFB Tune Standard	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1891258-2	Continuing Calibrati	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1891258-3	Laboratory Control S	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1891258-4	Laboratory Method Bl	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1891258-5	Duplicate Sample	S	TO15-LL	SOIL_VAPOR	DONE	U				

Comments:

WG1891258-5 L2409206-07

Alpha Analytical Air Lab
Instrument Run Log

ID:	Airlab15	Internal Standard/Surrogate IDs:	SS20-028 / SS21-026
Date:	11/20/23	Internal Standard/Surrogate Volume:	100 ml
Initials:	BJB	Sequence File Name:	231120.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	k Check Pa
1	BA15080103	TO15_SFS.qgm	R1540777.qgd	250 ML	BLANK		NA
1	TA15080101	TO15_SFS.qgm	R1540778.qgd	250 ML	TUNE		NA
9	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1540779.qgd	SS23-022D 50ML	SIM ONLY	DEFAULT	NA
9	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1540780.qgd	SS23-022D 100ML	SIM ONLY	DEFAULT	NA
9	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1540781.qgd	SS23-022D 250ML	SIM ONLY	DEFAULT	NA
10	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1540782.qgd	SS23-022C 50ML		DEFAULT	NA
10	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1540783.qgd	SS23-022C 125ML		DEFAULT	NA
10	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1540784.qgd	SS23-022C 250ML		DEFAULT	NA
11	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1540785.qgd	SS23-022H 125ML		DEFAULT	NA
11	ITO15-SIMSTD010	TO15_SFS.qgm	R1540786.qgd	SS23-022H 250ML		DEFAULT	NA
12	ITO15-SIMSTD020	TO15_SFS.qgm	R1540787.qgd	SS23-022A 50ML		DEFAULT	NA
12	ITO15-SIMSTD050	TO15_SFS.qgm	R1540788.qgd	SS23-022A 125ML		DEFAULT	NA
12	ITO15-LLSTD100	TO15_SFS.qgm	R1540789.qgd	SS23-022A 250ML	LL ONLY	DEFAULT	NA
1	BA15080101	TO15_SFS.qgm	R1540790.qgd	250 ML			NA
1	BA150801402	TO15_SFS.qgm	R1540791.qgd	250 ML			NA
2	CTO15-LLSTD10	TO15_SFS.qgm	R1540792.qgd	SS23-020E 250ML	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1540793.qgd	SS23-020E 125ML	SIM ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1540794.qgd	SS23-020E 125ML	SIM ICV	DEF ICV AP2	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

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AIRLAB22

Internal Standard/Surrogate IDs: SS22-029 / SS21-026

Date: 11/29/2023

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: JMB

Sequence File Name: 220916.S

Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL	Comment (s)	Product/ sublist	Check Pass
1	TA22112201	TO15_SFS.qgm	R221886.qgd	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R221887.qgd	50 mL SS23-022D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R221888.qgd	125 mL SS23-022D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R221889.qgd	250 mL SS23-022D	SIM ONLY	DEF	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R221890.qgd	50 mL SS23-022C		DEF	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R221891.qgd	125 mL SS23-022C		DEF	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R221892.qgd	250 mL SS23-022C		DEF	NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R221893.qgd	125 mL SS23-022B		DEF	NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R221894.qgd	250 mL SS23-022B		DEF	NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R221895.qgd	50 mL SS23-022A		DEF	NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R221896.qgd	125 mLSS23-022A		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R221897.qgd	250 mL SS23-022A	LL ONLY	DEF	NA
1	BA22112201	TO15_SFS.qgm	R221898.qgd	250 mL	LL BLANK		NA
1	BA22112202	TO15_SFS.qgm	R221899.qgd	250 mL	SIM BLANK/ TUNE		NA
2	CTO15-LLSTD10.0	TO15_SFS.qgm	R221900.qgd	250 mL SS223-027H	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R221901.qgd	125 mL SS223-027H	SIM ICV	DEF ICV AP2	NA

Alpha Analytical Air Lab
Instrument Run Log

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

ID:	Airlab15	Internal Standard/Surrogate IDs:	SS20-028 / SS21-026
Date:	02/26/24	Internal Standard/Surrogate Volume:	100 ml
Initials:	JFI	Sequence File Name:	240226.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	ak Ch eck Pa
1	TA15022601	TO15_SFS.qgm	R1543049.qgd	250mL	TUNE		NA
2	CA15022601	TO15_SFS.qgm	R1543050.qgd	SS24-030H 250ML	LL CC		NA
3	CTO15-LLSTD10	TO15_SFS.qgm	R1543051.qgd	SS24-002G 250ML	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1543052.qgd	SS24-002G 125ML	SIM LCS		NA
1	BA15022601	TO15_SFS.qgm	R1543053.qgd	250mL	LL BLANK		NA
1	BA15022601	TO15_SFS.qgm	R1543054.qgd	250mL	SIM BLANK		NA
1	L2409206-15,3,250,250	TO15_SFS.qgm	R1543055.qgd	WG1889452,ICAL20574		NY-7SIM	Y
2	L2409206-02,3,250,250	TO15_SFS.qgm	R1543056.qgd	WG1889452,ICAL20574		NY-7SIM	Y
3	L2409206-04,3,250,250	TO15_SFS.qgm	R1543057.qgd	WG1889452,ICAL20574		NY-7SIM	Y
4	L2409206-06,3,250,250	TO15_SFS.qgm	R1543058.qgd	WG1889452,ICAL20574		NY-7SIM	Y
5	L2409206-08,3,250,250	TO15_SFS.qgm	R1543059.qgd	WG1889452,ICAL20574		NY-7SIM	Y
5	L2409206-08DUP,3,250,250	TO15_SFS.qgm	R1543060.qgd	WG1889452,ICAL20574	DUP LL/SIM	NY-7SIM	Y
6	L2409206-10,3,250,250	TO15_SFS.qgm	R1543061.qgd	WG1889452,ICAL20574		NY-7SIM	Y
7	L2409206-12,3,250,250	TO15_SFS.qgm	R1543062.qgd	WG1889452,ICAL20574		NY-7SIM	Y
8	L2409206-14,3,250,250	TO15_SFS.qgm	R1543063.qgd	WG1889452,ICAL20574		NY-7SIM	Y
9	L2408465-15,3,250,250	TO15_SFS.qgm	R1543064.qgd	WG1889453,ICAL20577		BTEX+NAPH BY SIM	Y
10	L2408465-16,3,250,250	TO15_SFS.qgm	R1543065.qgd	WG1889453,ICAL20577		BTEX+NAPH BY SIM	Y
11	L2408465-17,3,250,250	TO15_SFS.qgm	R1543066.qgd	WG1889453,ICAL20577		BTEX+NAPH BY SIM	Y
12	L2407678-06D,3,106.19,250	TO15_SFS.qgm	R1543067.qgd	WG1889452,ICAL20574		NY	Y
13	L2407678-07D,3,113.71,250	TO15_SFS.qgm	R1543068.qgd	WG1889452,ICAL20574		NY	Y
14	L2407678-08D,3,24.24,250	TO15_SFS.qgm	R1543069.qgd	WG1889452,ICAL20574	T	NY	Y

15	L2407678-09D,3,26.78,250	TO15_SFS.qgm	R1543070.qgd	WG1889452,ICAL20574	T	NY	Y
16	L2407657-01D,3,70,250	TO15_SFS.qgm	R1543071.qgd	WG1889452,ICAL20574		NY	Y
1	L2407762-01D,3,107.74,250	TO15_SFS.qgm	R1543072.qgd	WG1889452,ICAL20574	Overcal	212environ	y
2	L2407762-02D,3,0.26,250	TO15_SFS.qgm	R1543073.qgd	WG1889452,ICAL20574	IS FAILURE	212environ	Y
4	l2408822-05D2,3,0.81,250	TO15_SFS.qgm	R1543074.qgd	WGXXXXX,ICAL20574	IS FAILURE	C12DCE	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

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AIRLAB22

Internal Standard/Surrogate IDs: SS22-029 / SS21-026

Date: 03/01/2024

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: JFI

Sequence File Name: 220916.S

Position #	Sample ID	Acquisition Method	Data File ID	Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	CK Pass ? Y/N
1	TA22030101	TO15_SFS.qgm	R222755.qgd	250 mL	TUNE		NA
2	CA22030101	TO15_SFS.qgm	R222756.qgd	250 mL SS223-027H	LL CC		NA
3	CTO15-LLSTD10.0	TO15_SFS.qgm	R222757.qgd	250 mL SS223-027H	LL LCS	ETOH FAILS HIGH REPORT HITS BY SIM	NA
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R222758.qgd	125 mL SS223-027H	SIM LCS		NA
1	BA22030101	TO15_SFS.qgm	R222759.qgd	250 mL	LL LCS		NA
1	BA22030102	TO15_SFS.qgm	R222760.qgd	250 mL	SIM LCS		NA
1	L2409206-01,3,250,250	TO15_SFS.qgm	R222761.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
2	L2409206-03,3,250,250	TO15_SFS.qgm	R222762.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
3	L2409206-05,3,250,250	TO15_SFS.qgm	R222763.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
4	L2409206-07,3,250,250	TO15_SFS.qgm	R222764.qgd	WG1891258,ICAL20613		NY	Y
4	L2409206-07DUP,3,250,250	TO15_SFS.qgm	R222765.qgd	WG1891258,ICAL20613	LL DUP	NY	Y
5	L2409206-09,3,250,250	TO15_SFS.qgm	R222766.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
6	L2409206-11,3,250,250	TO15_SFS.qgm	R222767.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
7	L2409206-13,3,250,250	TO15_SFS.qgm	R222768.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
8	L2409004-01,3,250,250	TO15_SFS.qgm	R222769.qgd	WG1891258,ICAL20613		PA	Y
9	L2409604-02D,3,200,250	TO15_SFS.qgm	R222770.qgd	WG1891258,ICAL20613	ETOH OVERCAL	NY	Y
10	L2409604-03,3,250,250	TO15_SFS.qgm	R222771.qgd	WG1891258,ICAL20613	ETOH OVERCAL BY SIM	NY	Y
11	L2409604-04D,3,200,250	TO15_SFS.qgm	R222772.qgd	WG1891258,ICAL20613	ETOH OVERCAL	NY	Y
12	L2409500-01D,3,4.4,250	TO15_SFS.qgm	R222773.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
13	L2409500-02D,3,10.03,250	TO15_SFS.qgm	R222774.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
14	L2409500-03D,3,1.7,250	TO15_SFS.qgm	R222775.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
15	L2409500-04D,3,125,250	TO15_SFS.qgm	R222776.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
16	L2409500-05D,3,2.8,250	TO15_SFS.qgm	R222777.qgd	WG1891258,ICAL20613	IS FAIL	NY	Y

Alpha Analytical Air Lab
Instrument Run Log

1	L2409500-06,3,250,250	TO15_SFS.qgm	R222778.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
2	L2409500-07D,3,34.05,250	TO15_SFS.qgm	R222779.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
10	L2409604-03D,3,50,250	TO15_SFS.qgm	R222780.qgd	WG1891258,ICAL20613		ETOH BY SIM	Y
16	L2409500-05D,3,0.47,250	TO15_SFS.qgm	R222781.qgd	WG1891258,ICAL20613	TRANSFER/224 tmp overcal	NY	Y

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 analyzed (mL), nominal volume

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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Client Sample ID	: IA-04_20240220	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2409206-08	**Analysis Date**	: 02/26/24 23:04
Lab File ID	: R1543059_EV2	**DUP File ID**	: r1543060_Ev2
Dup Sample ID	: WG1889453-5	**DUP Analysis Date**	: 02/26/24 23:45

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	0.071	0.079	11	25
Trichloroethene	ND	ND	NC	25
Tetrachloroethene	ND	ND	NC	25

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.			**Lab Number**	: L2409206
Project Name	: GROW NYC			**Project Number**	: 210121
Matrix (Level)	: AIR (LOW)				
LCS Sample ID	: WG1889453-3	**Analysis Date**	: 02/26/24 13:17	**File ID**	: r1543052_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	4.67	93				-	70-130	25
1,1-Dichloroethene	5	5.13	103				-	70-130	25
cis-1,2-Dichloroethene	5	4.85	97				-	70-130	25
1,1,1-Trichloroethane	5	5.08	102				-	70-130	25
Carbon tetrachloride	5	4.69	94				-	70-130	25
Trichloroethene	5	4.36	87				-	70-130	25
Tetrachloroethene	5	3.69	74				-	70-130	25

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: AKRF, Inc.			**Lab Number**	: L2409206
Project Name	: GROW NYC			**Project Number**	: 210121
Matrix (Level)	: AIR (LOW)				
LCS Sample ID	: WG1891969-3	**Analysis Date**	: 03/01/24 13:53	**File ID**	: r222758_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**
Ethanol	25	32.0	128				-	40-160	25

Method Blank Summary
Form 4
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab Sample ID	: WG1889453-4	**Lab File ID**	: r1543054_Ev2
Instrument ID	: AIRLAB15		
Matrix	: AIR	**Analysis Date**	: 02/26/24 16:00

Client Sample No.	Lab Sample ID	Analysis Date
WG1889453-3LCS	WG1889453-3	02/26/24 13:17
AA-01_20240220	L2409206-15	02/26/24 20:16
IA-01_20240220	L2409206-02	02/26/24 20:58
IA-02_20240220	L2409206-04	02/26/24 21:39
IA-03_20240220	L2409206-06	02/26/24 22:22
IA-04_20240220	L2409206-08	02/26/24 23:04
IA-04_20240220DUP	WG1889453-5	02/26/24 23:45
IA-05_20240220	L2409206-10	02/27/24 00:28
IA-06_20240220	L2409206-12	02/27/24 01:09
IA-07_20240220	L2409206-14	02/27/24 01:52

Method Blank Summary
Form 4
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab Sample ID	: WG1891969-4	**Lab File ID**	: r222760_Ev2
Instrument ID	: AIRLAB22		
Matrix	: AIR	**Analysis Date**	: 03/01/24 15:57

Client Sample No.	Lab Sample ID	Analysis Date
WG1891969-3LCS	WG1891969-3	03/01/24 13:53
V-01_20240220	L2409206-01	03/01/24 17:47
V-02_20240220	L2409206-03	03/01/24 18:19
V-03_20240220	L2409206-05	03/01/24 18:51
AIR DUMMY 119DUP	WG1891969-5	03/01/24 19:55
V-05_20240220	L2409206-09	03/01/24 20:26
V-06_20240220	L2409206-11	03/01/24 21:00
V-07_20240220	L2409206-13	03/01/24 21:32

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

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB15	**Analysis Date**	: 11/20/23 19:17
Tune Standard	: WG1855600-1	**Tune File ID**	: r1540778_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	14.2
75	30.0 - 66.0% of mass 95	35.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	71
175	4.0 - 9.0% of mass 174	5 (7.1)1
176	93.0 - 101% of mass 174	66 (93)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	R1767101-1	R1540779_EV2	11/20/23 19:52
STD0.05	R1767101-2	R1540780_EV2	11/20/23 20:28
STD0.1	R1767101-3	R1540781_EV2	11/20/23 21:07
STD0.2	R1767101-4	R1540782_EV2	11/20/23 21:44
STD0.5	R1767101-5	R1540783_EV2	11/20/23 22:22
STD1.0	R1767101-6	R1540784_EV2	11/20/23 23:03
STD5.0	R1767101-7	R1540785_EV2	11/20/23 23:42
STD010	R1767101-8	R1540786_EV2	11/21/23 00:23
STD020	R1767101-9	R1540787_EV2	11/21/23 01:00
STD050	R1767101-10	R1540788_EV2	11/21/23 01:39
ICV Quant	R1767101-11	R1540794_EV2	11/21/23 17:20

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

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB15	**Analysis Date**	: 02/26/24 11:04
Tune Standard	: WG1889453-1	**Tune File ID**	: r1543049_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	15.7
75	30.0 - 66.0% of mass 95	38
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.3 (.5)1
174	50.0 - 120.0% of mass 95	59.9
175	4.0 - 9.0% of mass 174	4.1 (6.9)1
176	93.0 - 101% of mass 174	57.4 (95.7)1
177	5.0 - 9.0% of mass 176	3.7 (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
WG1889453-2CCAL	WG1889453-2	R1543052_EV2	02/26/24 13:17
WG1889453-3LCS	WG1889453-3	R1543052_EV2	02/26/24 13:17
WG1889453-4BLANK	WG1889453-4	R1543054_EV2	02/26/24 16:00
AA-01_20240220	L2409206-15	R1543055_EV2	02/26/24 20:16
IA-01_20240220	L2409206-02	R1543056_EV2	02/26/24 20:58
IA-02_20240220	L2409206-04	R1543057_EV2	02/26/24 21:39
IA-03_20240220	L2409206-06	R1543058_EV2	02/26/24 22:22
IA-04_20240220	L2409206-08	R1543059_EV2	02/26/24 23:04
WG1889453-5DUP	WG1889453-5	R1543060_EV2	02/26/24 23:45
IA-05_20240220	L2409206-10	R1543061_EV2	02/27/24 00:28
IA-06_20240220	L2409206-12	R1543062_EV2	02/27/24 01:09
IA-07_20240220	L2409206-14	R1543063_EV2	02/27/24 01:52

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

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB22	**Analysis Date**	: 11/29/23 20:41
Tune Standard	: WG1858561-1	**Tune File ID**	: r221886_tune

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

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1769930-1	R221887_EV2	11/29/23 21:09
STD0.05	R1769930-2	R221888_EV2	11/29/23 21:38
STD0.1	R1769930-3	R221889_EV2	11/29/23 22:09
STD0.2	R1769930-4	R221890_EV2	11/29/23 22:39
STD0.5	R1769930-5	R221891_EV2	11/29/23 23:11
STD1.0	R1769930-6	R221892_EV2	11/29/23 23:44
STD5.0	R1769930-7	R221893_EV2	11/30/23 00:16
STD010	R1769930-8	R221894_EV2	11/30/23 00:49
STD020	R1769930-9	R221895_EV2	11/30/23 01:19
STD050	R1769930-10	R221896_EV2	11/30/23 01:51
ICV QUANT	R1769930-11	R221901_EV2	11/30/23 16:55

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

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB22	**Analysis Date**	: 03/01/24 12:15
Tune Standard	: WG1891969-1	**Tune File ID**	: r222755_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.6
75	30.0 - 66.0% of mass 95	36.1
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	0.2 (.4)1
174	50.0 - 120.0% of mass 95	58.7
175	4.0 - 9.0% of mass 174	4.2 (7.1)1
176	93.0 - 101% of mass 174	57.6 (98.2)1
177	5.0 - 9.0% of mass 176	3.7 (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
WG1891969-2CCAL	WG1891969-2	R222758_EV2	03/01/24 13:53
WG1891969-3LCS	WG1891969-3	R222758_EV2	03/01/24 13:53
WG1891969-4BLANK	WG1891969-4	R222760_EV2	03/01/24 15:57
V-01_20240220	L2409206-01	R222761_EV2	03/01/24 17:47
V-02_20240220	L2409206-03	R222762_EV2	03/01/24 18:19
V-03_20240220	L2409206-05	R222763_EV2	03/01/24 18:51
WG1891969-5DUP	WG1891969-5	R222765_EV2	03/01/24 19:55
V-05_20240220	L2409206-09	R222766_EV2	03/01/24 20:26
V-06_20240220	L2409206-11	R222767_EV2	03/01/24 21:00
V-07_20240220	L2409206-13	R222768_EV2	03/01/24 21:32

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB15	**Analysis Date**	: 02/26/24 13:17:00
Sample No	: WG1889453-2	**Lab File ID**	: R1543052_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1889453-2	147461	9.17	439351	11.41	77617	16.08
Upper Limit	206445	9.50	615091	11.74	108664	16.41
Lower Limit	88477	8.84	263611	11.08	46570	15.75
Sample ID						
WG1889453-3 LCS	147461	9.17	439351	11.41	77617	16.08
WG1889453-4 BLANK	136682	9.18	385902	11.41	69026	16.08
AA-01_20240220	133475	9.16	370782	11.39	70237	16.08
IA-01_20240220	135089	9.16	376478	11.39	70797	16.08
IA-02_20240220	135259	9.16	377718	11.39	71952	16.07
IA-03_20240220	137483	9.16	383389	11.39	72757	16.07
IA-04_20240220	137363	9.16	383356	11.39	72259	16.07
IA-04_20240220 DUP	136175	9.16	379474	11.39	72129	16.07
IA-05_20240220	134832	9.16	378242	11.39	71476	16.07
IA-06_20240220	136441	9.16	383370	11.39	71731	16.07
IA-07_20240220	137282	9.16	387048	11.39	72603	16.07

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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Instrument ID	: AIRLAB22	**Analysis Date**	: 03/01/24 13:53:00
Sample No	: WG1891969-2	**Lab File ID**	: R222758_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1891969-2	255414	4.42	870699	5.36	103994	7.33
Upper Limit	357580	4.75	1218979	5.69	145592	7.66
Lower Limit	153248	4.09	522419	5.03	62396	7.00
Sample ID						
WG1891969-3 LCS	255414	4.42	870699	5.36	103994	7.33
WG1891969-4 BLANK	238578	4.42	802556	5.36	98389	7.33
V-01_20240220	234450	4.43	788009	5.36	100230	7.33
V-02_20240220	257193	4.43	869984	5.36	102332	7.33
V-03_20240220	259690	4.43	881297	5.36	99364	7.33
AIR DUMMY 119 DUP	264317	4.43	903102	5.36	95800	7.33
V-05_20240220	267756	4.43	912706	5.36	94495	7.33
V-06_20240220	263960	4.43	901659	5.36	92252	7.33
V-07_20240220	262895	4.43	900840	5.36	90272	7.33

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.

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File: PM15856-1
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Volatile Organics in Air by TO-15 SIM (AIR)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-01	**Date Collected**	: 02/20/24 17:08
Client ID	: V-01_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 17:47
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R222761_EV2	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	6.33	5.00	--	11.9	9.42	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-02	**Date Collected**	: 02/20/24 13:54
Client ID	: IA-01_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/26/24 20:58
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R1543056_EV2	**Instrument ID**	: AIRLAB15
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	ND	0.020	--	ND	0.136	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-03	**Date Collected**	: 02/20/24 17:15
Client ID	: V-02_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 18:19
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R222762_EV2	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	10.8	5.00	--	20.3	9.42	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-04	**Date Collected**	: 02/20/24 14:00
Client ID	: IA-02_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/26/24 21:39
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R1543057_EV2	**Instrument ID**	: AIRLAB15
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-05	**Date Collected**	: 02/20/24 16:40
Client ID	: V-03_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 18:51
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R222763_EV2	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	20.4	5.00	--	38.4	9.42	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-06	**Date Collected**	: 02/20/24 15:45
Client ID	: IA-03_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/26/24 22:22
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R1543058_EV2	**Instrument ID**	: AIRLAB15
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	0.071	0.020	--	0.447	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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-08	**Date Collected**	: 02/20/24 15:36
Client ID	: IA-04_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/26/24 23:04
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R1543059_EV2	**Instrument ID**	: AIRLAB15
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	0.071	0.020	--	0.447	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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-09	**Date Collected**	: 02/20/24 16:10
Client ID	: V-05_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 20:26
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R222766_EV2	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	14.6	5.00	--	27.5	9.42	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-10	**Date Collected**	: 02/20/24 13:32
Client ID	: IA-05_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/27/24 00:28
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R1543061_EV2	**Instrument ID**	: AIRLAB15
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	0.075	0.020	--	0.472	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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-11	**Date Collected**	: 02/20/24 17:29
Client ID	: V-06_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 21:00
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R222767_EV2	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	19.9	5.00	--	37.5	9.42	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-12	**Date Collected**	: 02/20/24 15:51
Client ID	: IA-06_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/27/24 01:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R1543062_EV2	**Instrument ID**	: AIRLAB15
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	--	
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-13	**Date Collected**	: 02/20/24 16:18
Client ID	: V-07_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 03/01/24 21:32
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R222768_EV2	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	12.6	5.00	--	23.7	9.42	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-14	**Date Collected**	: 02/20/24 15:31
Client ID	: IA-07_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/27/24 01:52
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R1543063_EV2	**Instrument ID**	: AIRLAB15
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	0.067	0.020	--	0.421	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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: L2409206-15	**Date Collected**	: 02/20/24 12:24
Client ID	: AA-01_20240220	**Date Received**	: 02/20/24
Sample Location	: GROW NYC	**Date Analyzed**	: 02/26/24 20:16
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R1543055_EV2	**Instrument ID**	: AIRLAB15
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.077	0.020	--	0.484	0.126	--	
79-01-6	Trichloroethene	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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: WG1889453-4	**Date Collected**	: NA
Client ID	: WG1889453-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/26/24 16:00
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R1543054_EV2	**Instrument ID**	: AIRLAB15
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	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: WG1889453-5	**Date Collected**	: 02/20/24 15:36
Client ID	: IA-04_20240220DUP	**Date Received**	: 02/20/24
Sample Location	:	**Date Analyzed**	: 02/26/24 23:45
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R1543060_EV2	**Instrument ID**	: AIRLAB15
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	ND	0.020	--	ND	0.136	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	**Lab Number**	: L2409206
Project Name	: GROW NYC	**Project Number**	: 210121
Lab ID	: WG1891969-4	**Date Collected**	: NA
Client ID	: WG1891969-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 03/01/24 15:57
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R222760_EV2	**Instrument ID**	: AIRLAB22
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543055_Ev2.D
Acq On : 26 Feb 2024 8:16 PM
Operator : AIRLAB15:KJD
Sample : L2409206-15,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:10 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : 7-NY-SIM - .

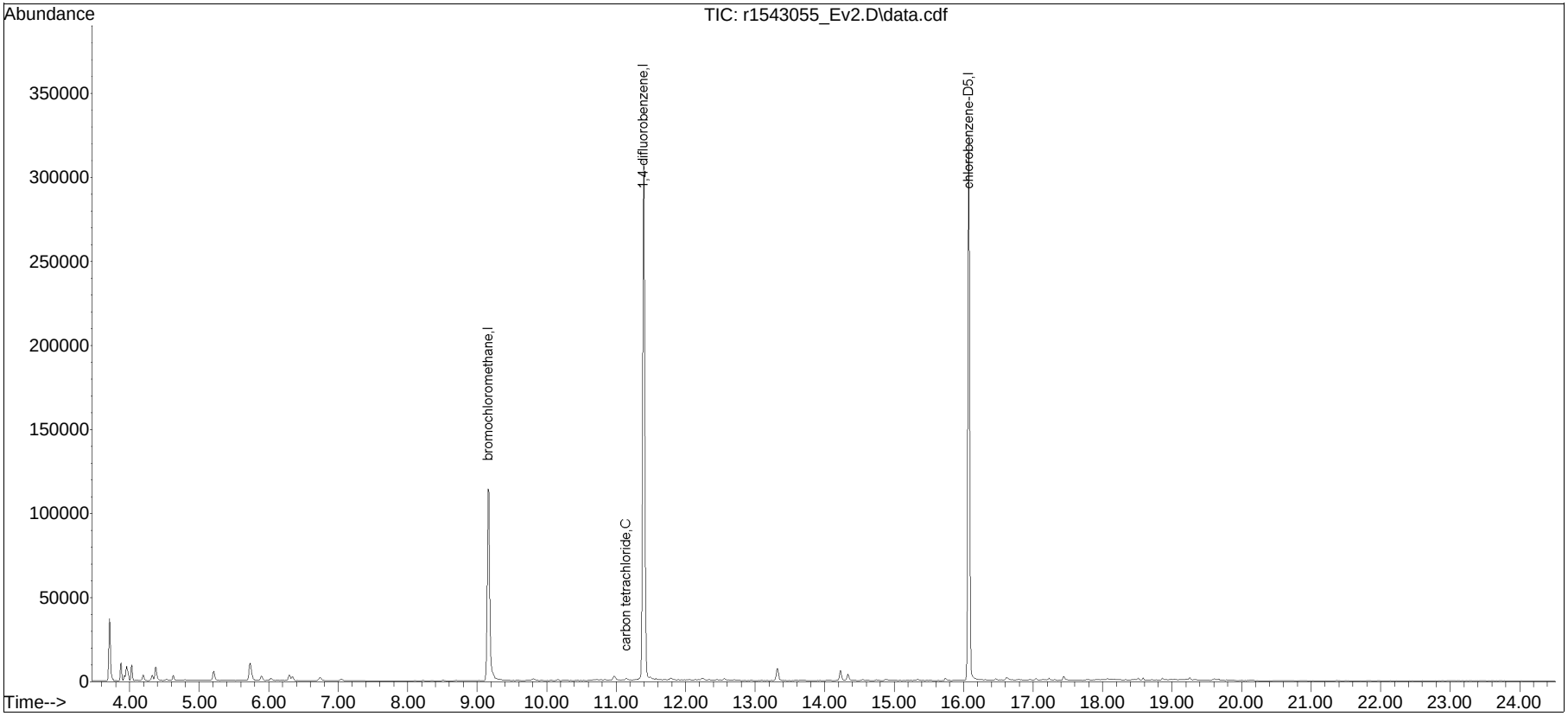
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.158	49	133475	10.000	ppbV		0.09
Standard Area = 147461			Recovery = 90.52%				
33) 1,4-difluorobenzene	11.393	114	370782	10.000	ppbV	#	0.11
Standard Area = 439351			Recovery = 84.39%				
51) chlorobenzene-D5	16.075	54	70237	10.000	ppbV		0.07
Standard Area = 77617			Recovery = 90.49%				
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	11.140	117	886	0.077	ppbV		94
44) trichloroethene	0.000		0	N.D.			
57) tetrachloroethene	15.475		0	N.D.			

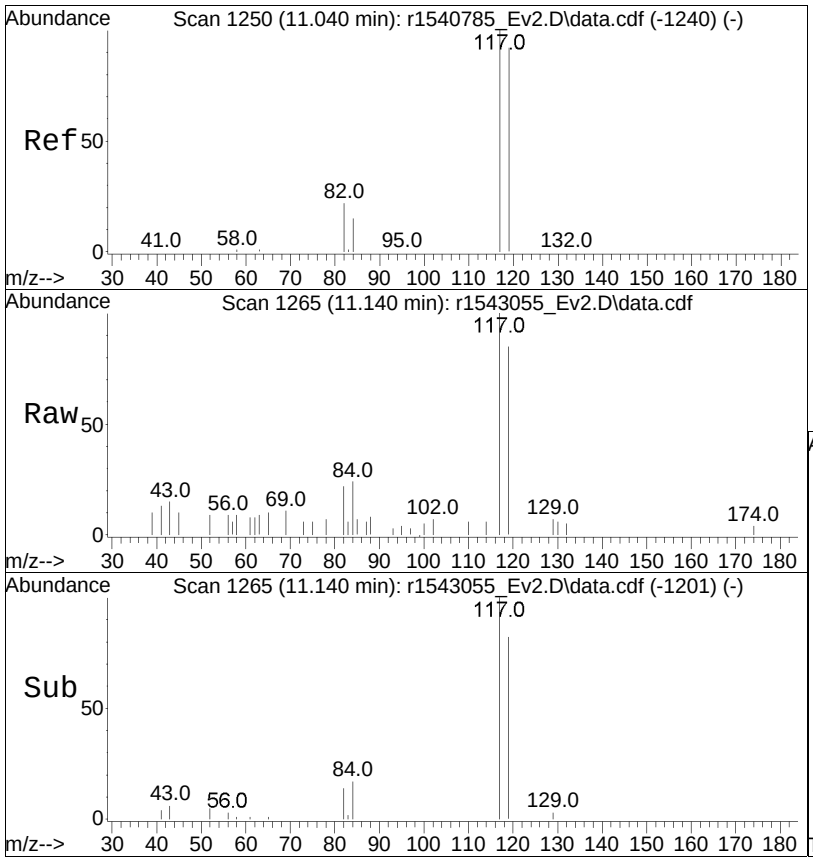
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543055_Ev2.D
Acq On : 26 Feb 2024 8:16 PM
Operator : AIRLAB15:KJD
Sample : L2409206-15,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:10 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

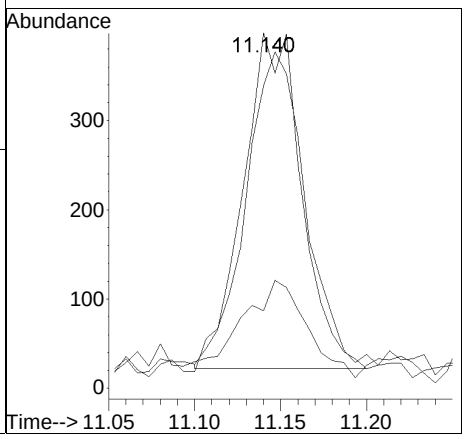




#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 11.140 min Scan# 1265
Delta R.T. 0.100 min
Lab File: r1543055_Ev2.D
Acq: 26 Feb 2024 8:16 PM

Tgt Ion:117 Resp: 886

Ion	Ratio	Lower	Upper
117	100		
119	85.2	73.8	110.6
82	21.9	17.8	26.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_231120.M
Data File	: r1543055_Ev2.D	Operator	: AIRLAB15:KJD
Date Inj'd	: 2/26/2020 0:8: 6	Instrument	:
Sample	: L2409206-15,3,250,250	Quant Date	: 2/27/2024 7:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543056_Ev2.D
Acq On : 26 Feb 2024 8:58 PM
Operator : AIRLAB15:KJD
Sample : L2409206-02,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:17 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : 7-NY-SIM - .

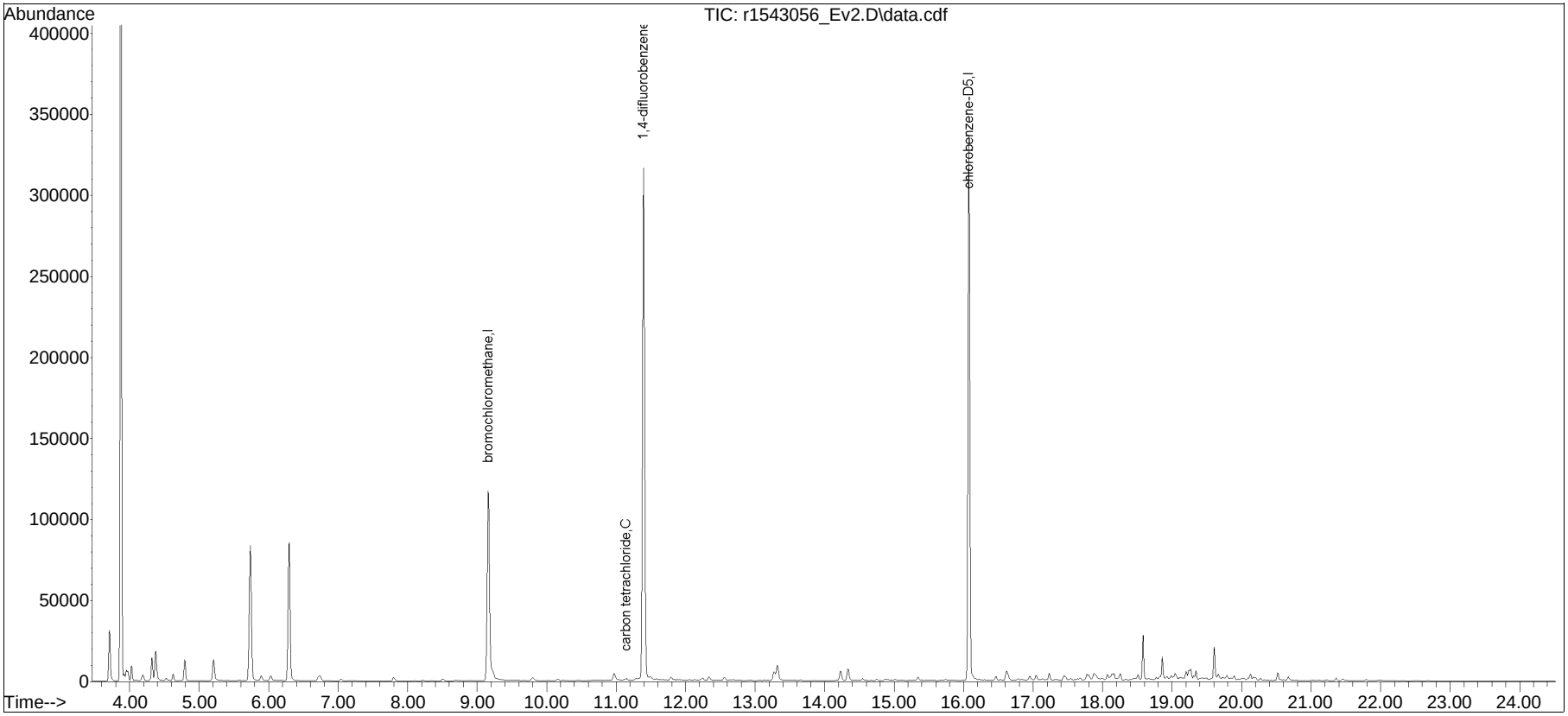
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.158	49	135089	10.000	ppbV	0.09
Standard Area = 147461			Recovery =		91.61%	
33) 1,4-difluorobenzene	11.393	114	376478	10.000	ppbV	# 0.11
Standard Area = 439351			Recovery =		85.69%	
51) chlorobenzene-D5	16.075	54	70797	10.000	ppbV	0.07
Standard Area = 77617			Recovery =		91.21%	
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	11.140	117	856	0.073	ppbV	# 94
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.475		0	N.D.		

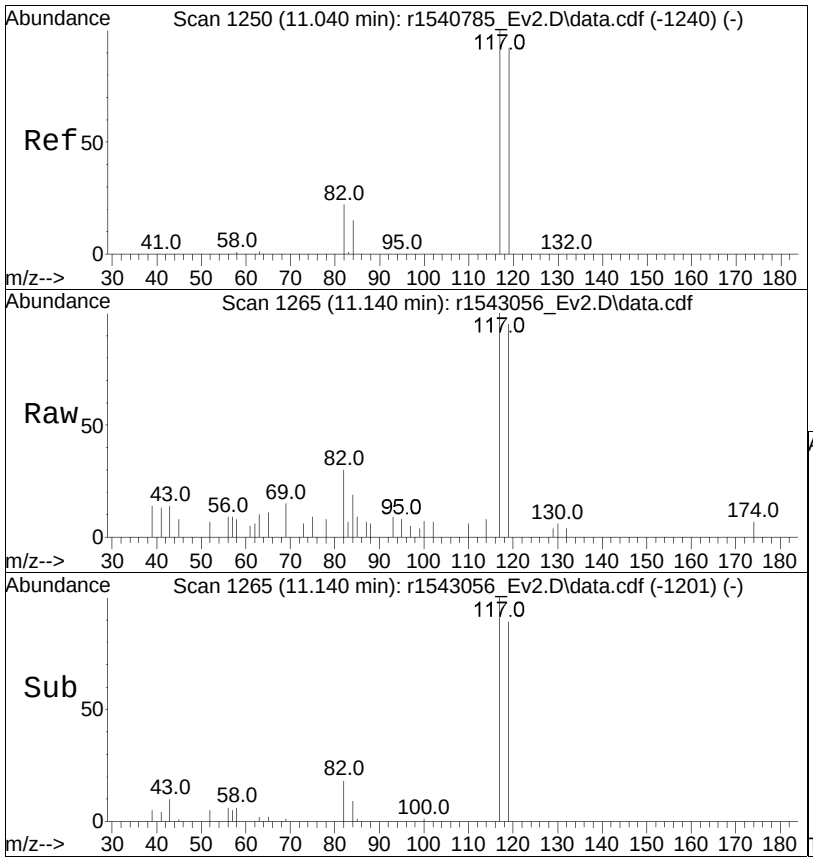
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543056_Ev2.D
Acq On : 26 Feb 2024 8:58 PM
Operator : AIRLAB15:KJD
Sample : L2409206-02,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:17 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

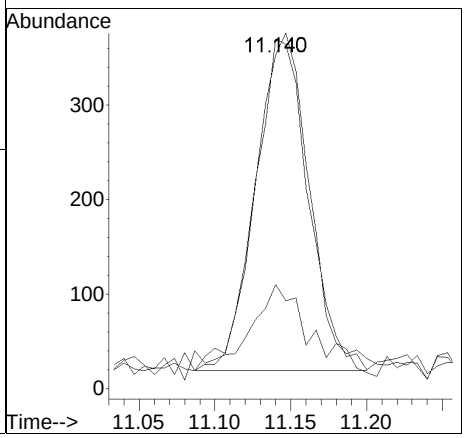




#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.140 min Scan# 1265
Delta R.T. 0.100 min
Lab File: r1543056_Ev2.D
Acq: 26 Feb 2024 8:58 PM

Tgt Ion:117 Resp: 856

Ion	Ratio	Lower	Upper
117	100		
119	95.4	73.8	110.6
82	29.7	17.8	26.8#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_231120.M
Data File	: r1543056_Ev2.D	Operator	: AIRLAB15:KJD
Date Inj'd	: 2/26/2020 0:8: 8	Instrument	:
Sample	: L2409206-02,3,250,250	Quant Date	: 2/27/2024 7:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543057_Ev2.D
Acq On : 26 Feb 2024 9:39 PM
Operator : AIRLAB15:KJD
Sample : L2409206-04,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:23 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : 7-NY-SIM - .

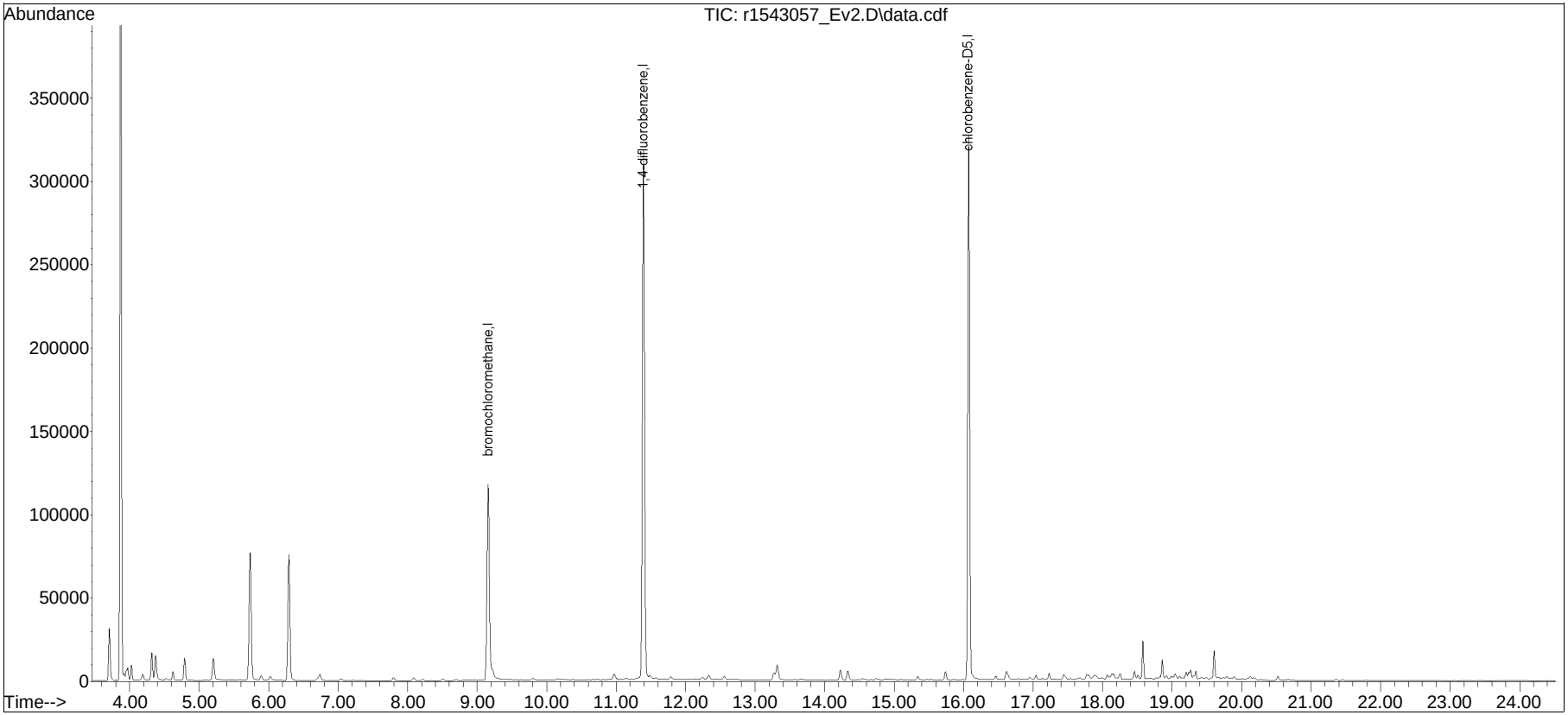
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.158	49	135259	10.000	ppbV	0.09
Standard Area = 147461			Recovery =		91.73%	
33) 1,4-difluorobenzene	11.393	114	377718	10.000	ppbV	# 0.11
Standard Area = 439351			Recovery =		85.97%	
51) chlorobenzene-D5	16.067	54	71952	10.000	ppbV	0.07
Standard Area = 77617			Recovery =		92.70%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.	d	
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	0.000		0	N.D.	d	
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.475		0	N.D.		

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

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543057_Ev2.D
Acq On : 26 Feb 2024 9:39 PM
Operator : AIRLAB15:KJD
Sample : L2409206-04,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:23 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_231120.M
Data File	: r1543057_Ev2.D	Operator	: AIRLAB15:KJD
Date Inj'd	: 2/26/2020 0:9: 9	Instrument	:
Sample	: L2409206-04,3,250,250	Quant Date	: 2/27/2024 7:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543058_Ev2.D
Acq On : 26 Feb 2024 10:22 PM
Operator : AIRLAB15:KJD
Sample : L2409206-06,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : 7-NY-SIM - .

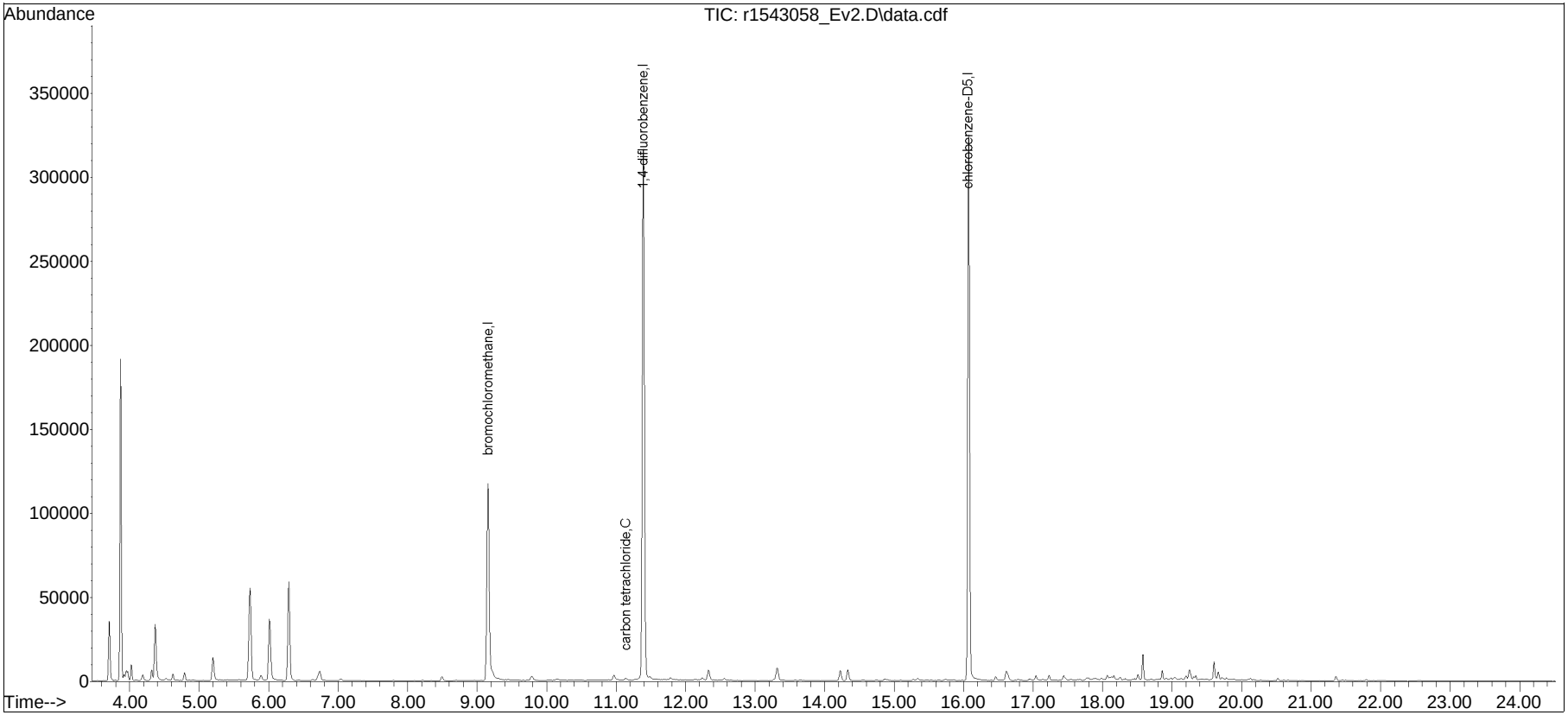
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.158	49	137483	10.000	ppbV	0.09
Standard Area = 147461			Recovery = 93.23%			
33) 1,4-difluorobenzene	11.393	114	383389	10.000	ppbV	0.11
Standard Area = 439351			Recovery = 87.26%			
51) chlorobenzene-D5	16.067	54	72757	10.000	ppbV	0.07
Standard Area = 77617			Recovery = 93.74%			
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	11.140	117	842	0.071	ppbV	93
44) trichloroethene	0.000		0	N.D.	d	
57) tetrachloroethene	15.475		0	N.D.		

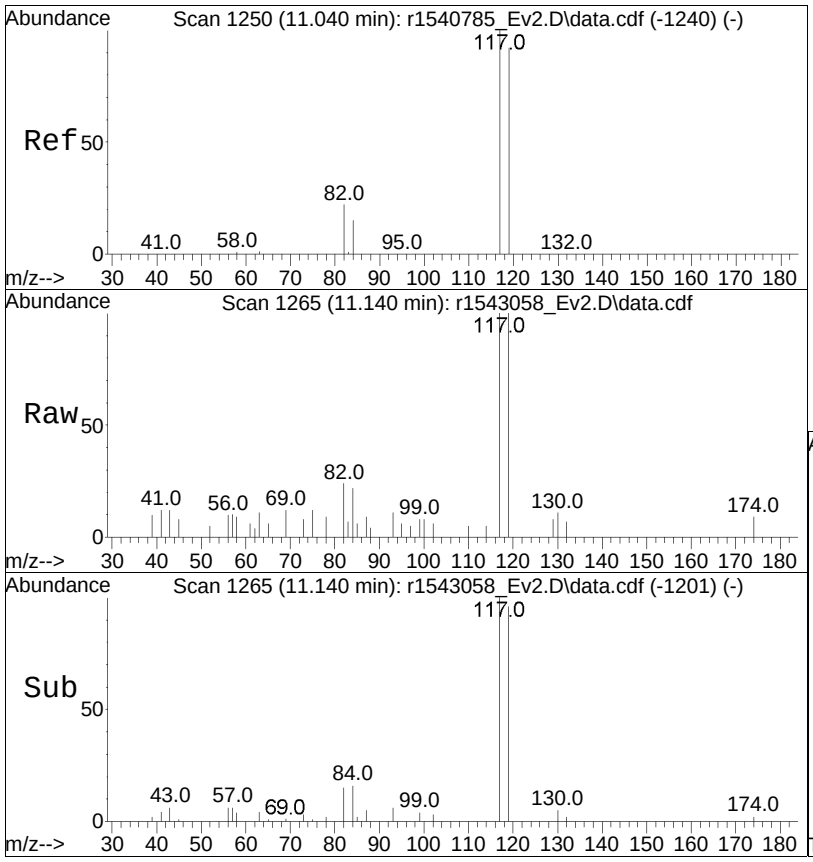
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543058_Ev2.D
Acq On : 26 Feb 2024 10:22 PM
Operator : AIRLAB15:KJD
Sample : L2409206-06,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:29 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

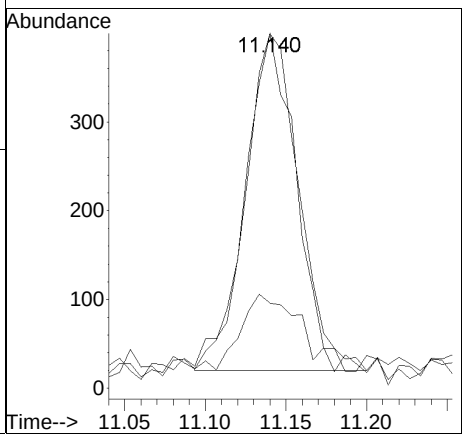




#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.140 min Scan# 1265
Delta R.T. 0.100 min
Lab File: r1543058_Ev2.D
Acq: 26 Feb 2024 10:22 PM

Tgt Ion:117 Resp: 842

Ion	Ratio	Lower	Upper
117	100		
119	99.8	73.8	110.6
82	24.0	17.8	26.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_231120.M
Data File	: r1543058_Ev2.D	Operator	: AIRLAB15:KJD
Date Inj'd	: 2/26/2020 0:0: 2	Instrument	:
Sample	: L2409206-06,3,250,250	Quant Date	: 2/27/2024 7:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543059_Ev2.D
Acq On : 26 Feb 2024 11:04 PM
Operator : AIRLAB15:KJD
Sample : L2409206-08,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : 7-NY-SIM - .

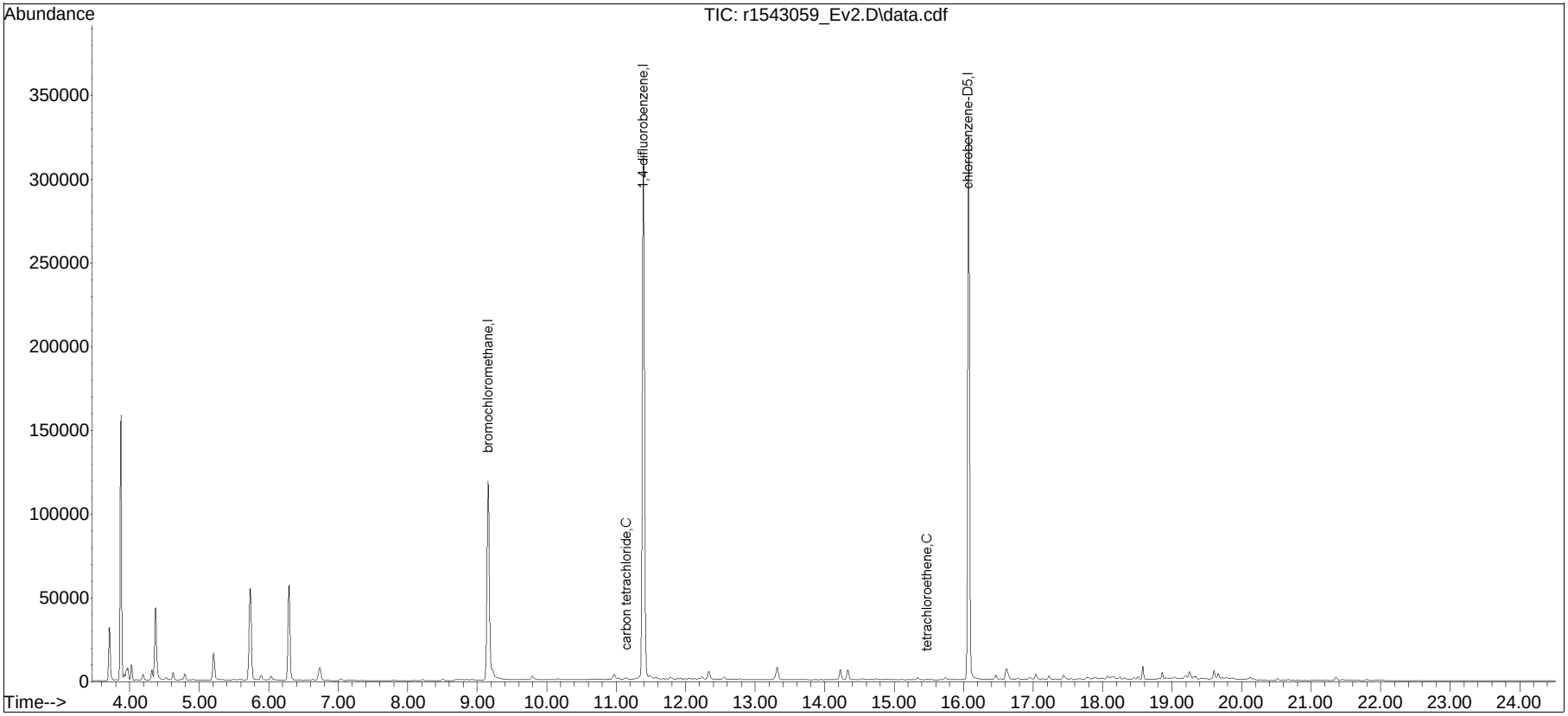
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.158	49	137363	10.000	ppbV	0.09
Standard Area = 147461			Recovery =		93.15%	
33) 1,4-difluorobenzene	11.393	114	383356	10.000	ppbV	0.11
Standard Area = 439351			Recovery =		87.26%	
51) chlorobenzene-D5	16.067	54	72259	10.000	ppbV	0.07
Standard Area = 77617			Recovery =		93.10%	
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	11.147	117	844	0.071	ppbV #	91
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.475	166	201	0.012	ppbV #	66

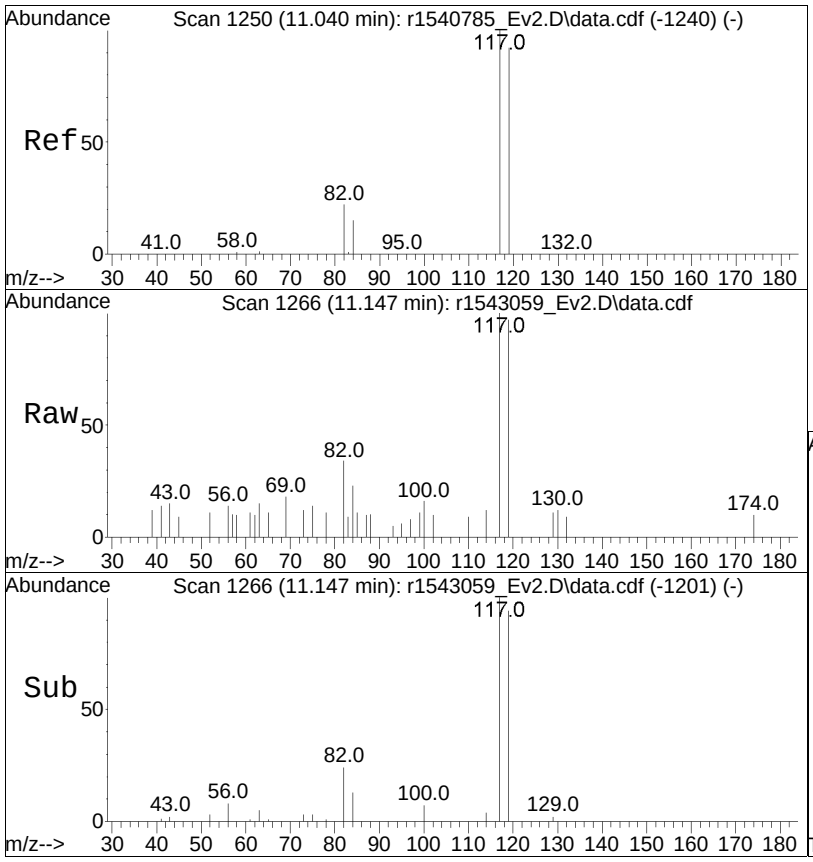
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543059_Ev2.D
Acq On : 26 Feb 2024 11:04 PM
Operator : AIRLAB15:KJD
Sample : L2409206-08,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:35 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

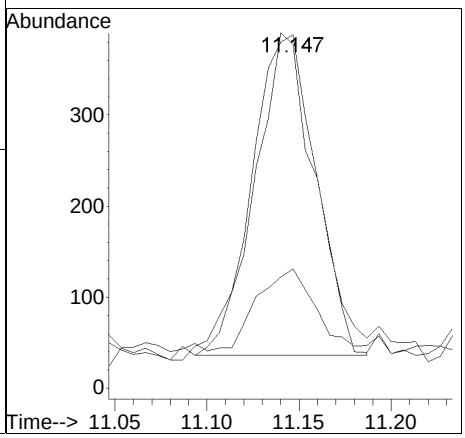


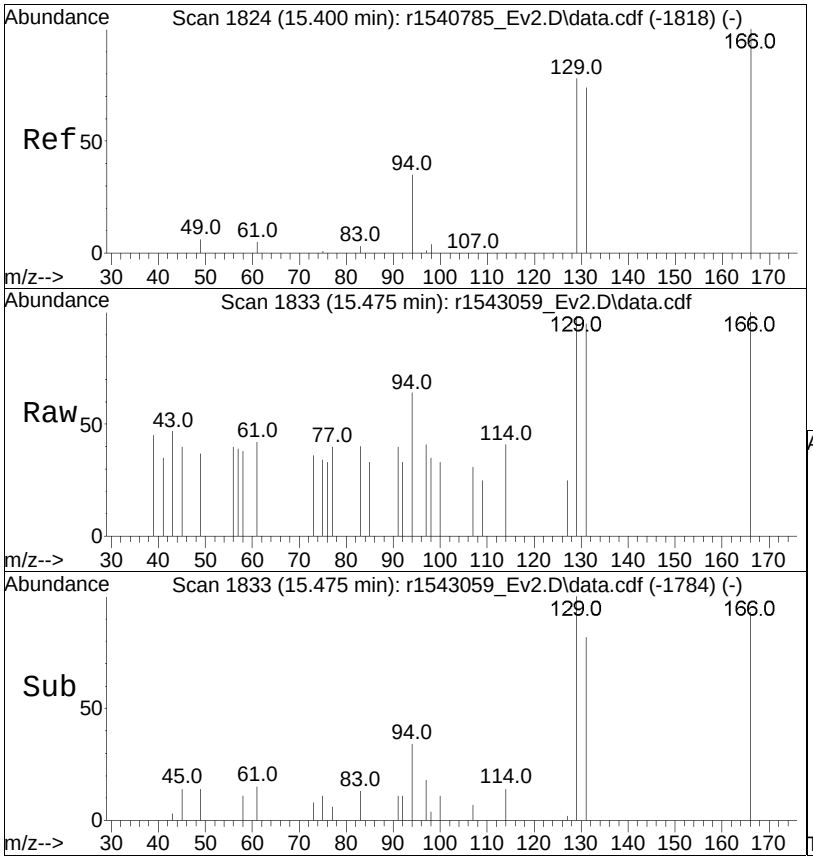


#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.147 min Scan# 1266
Delta R.T. 0.107 min
Lab File: r1543059_Ev2.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion:117 Resp: 844

Ion	Ratio	Lower	Upper
117	100		
119	97.4	73.8	110.6
82	33.8	17.8	26.8#

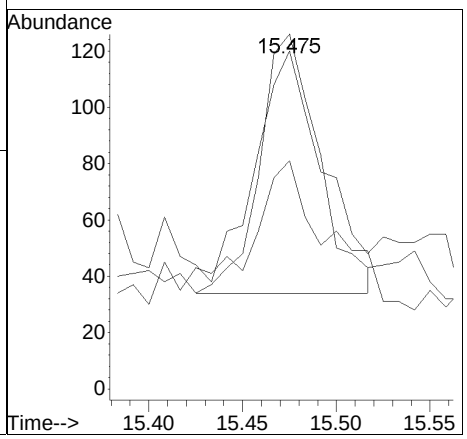




#57
tetrachloroethene
Concen: 0.01 ppbV
RT: 15.475 min Scan# 1833
Delta R.T. 0.075 min
Lab File: r1543059_Ev2.D
Acq: 26 Feb 2024 11:04 PM

Tgt Ion:166 Resp: 201

Ion	Ratio	Lower	Upper
166	100		
131	95.2	58.9	88.3#
94	64.3	27.8	41.6#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_231120.M
Data File	: r1543059_Ev2.D	Operator	: AIRLAB15:KJD
Date Inj'd	: 2/26/2020 0:1: 4	Instrument	:
Sample	: L2409206-08,3,250,250	Quant Date	: 2/27/2024 7:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543061_Ev2.D
Acq On : 27 Feb 2024 12:28 AM
Operator : AIRLAB15:KJD
Sample : L2409206-10,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:47 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : 7-NY-SIM - .

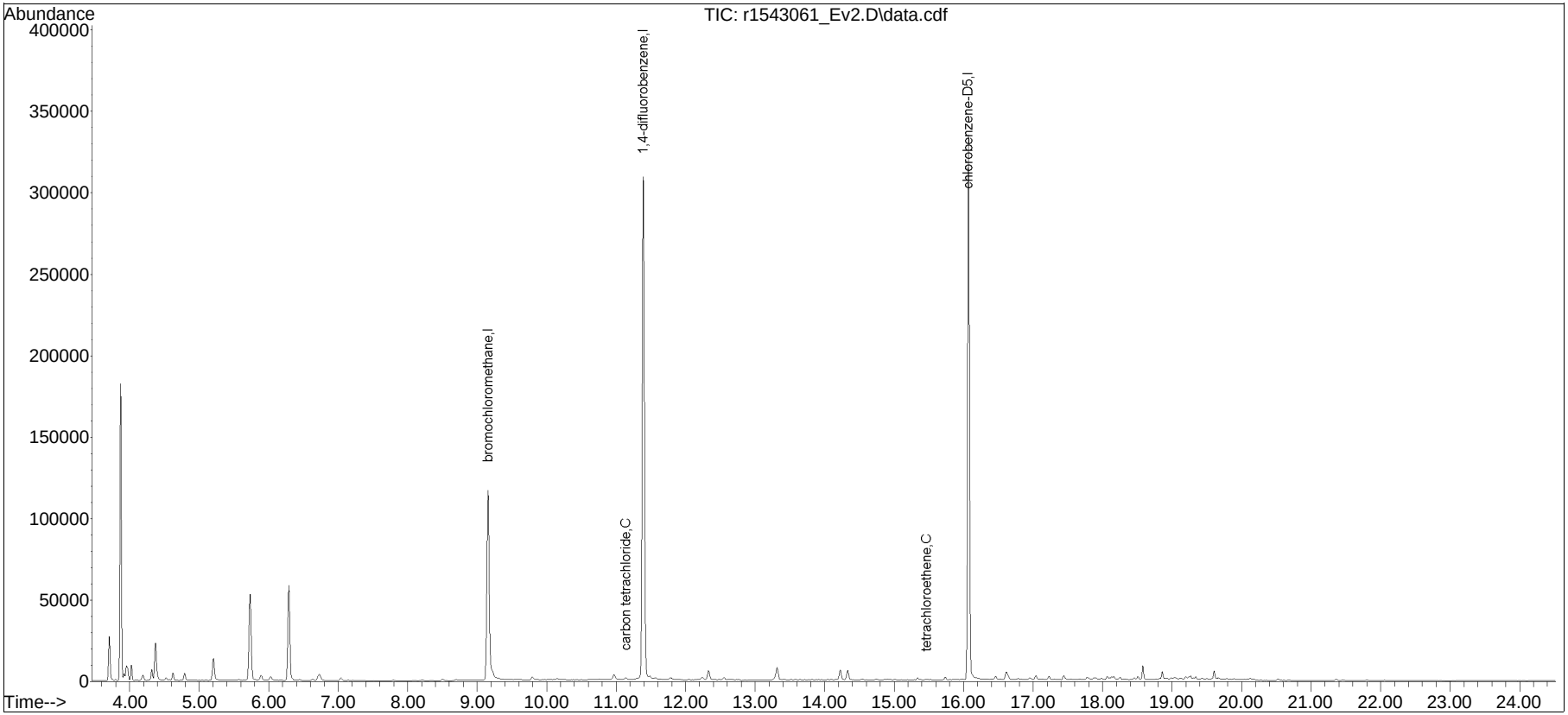
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.158	49	134832	10.000	ppbV	0.09
Standard Area = 147461			Recovery =		91.44%	
33) 1,4-difluorobenzene	11.393	114	378242	10.000	ppbV	0.11
Standard Area = 439351			Recovery =		86.09%	
51) chlorobenzene-D5	16.067	54	71476	10.000	ppbV	0.07
Standard Area = 77617			Recovery =		92.09%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.		
28) cis-1,2-dichloroethene	0.000		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.140	117	876	0.075	ppbV #	87
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.467	166	178	0.011	ppbV #	88

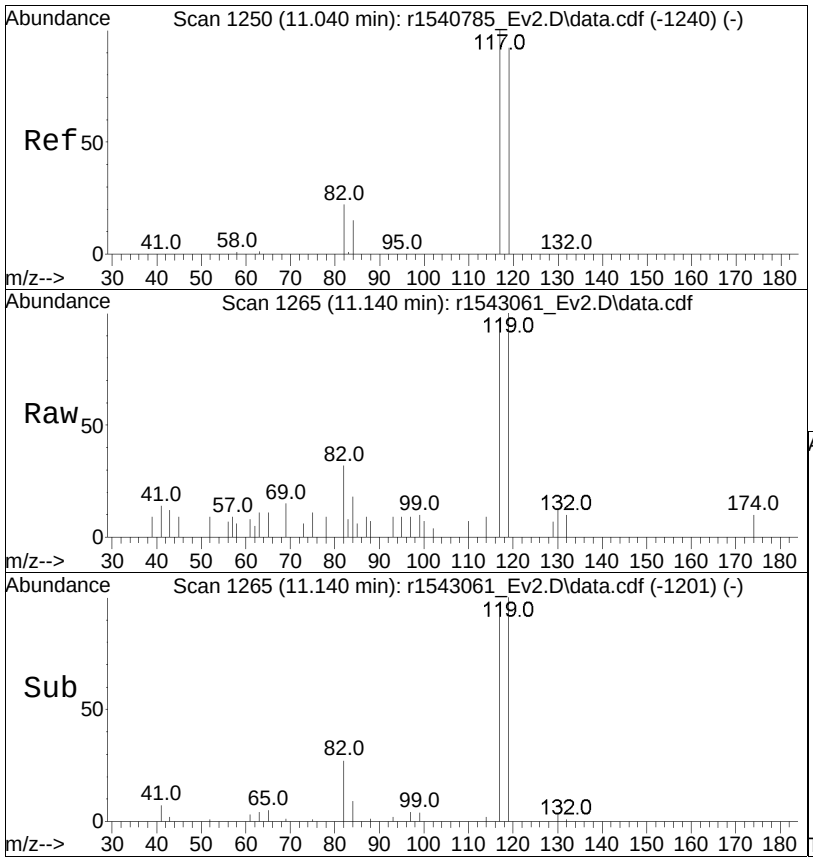
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543061_Ev2.D
Acq On : 27 Feb 2024 12:28 AM
Operator : AIRLAB15:KJD
Sample : L2409206-10,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:47 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

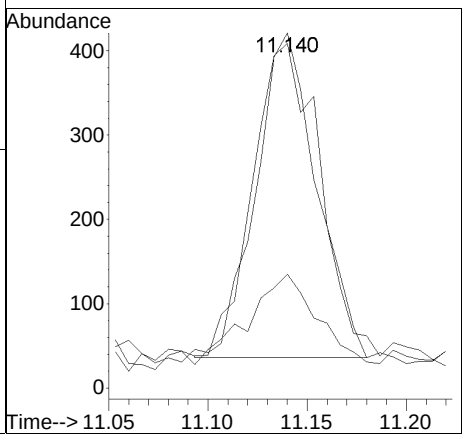


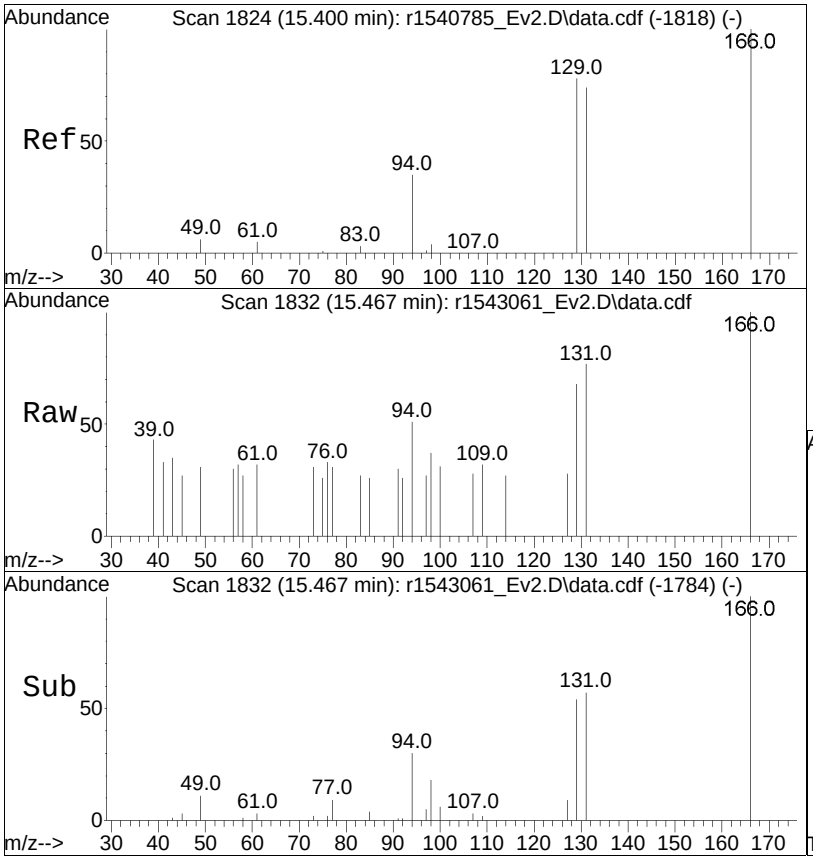


#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.140 min Scan# 1265
Delta R.T. 0.100 min
Lab File: r1543061_Ev2.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion:117 Resp: 876

Ion	Ratio	Lower	Upper
117	100		
119	102.9	73.8	110.6
82	33.0	17.8	26.8#

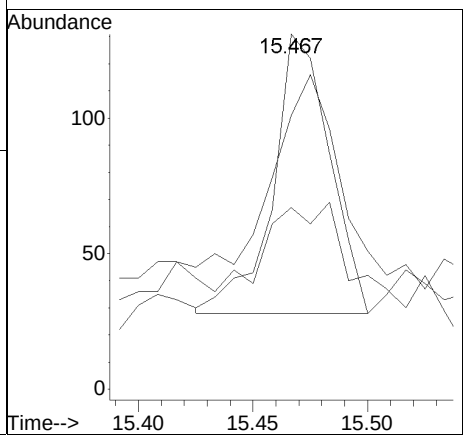




#57
tetrachloroethene
Concen: 0.01 ppbV
RT: 15.467 min Scan# 1832
Delta R.T. 0.067 min
Lab File: r1543061_Ev2.D
Acq: 27 Feb 2024 12:28 AM

Tgt Ion:166 Resp: 178

Ion	Ratio	Lower	Upper
166	100		
131	77.1	58.9	88.3
94	51.1	27.8	41.6#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_231120.M
Data File	: r1543061_Ev2.D	Operator	: AIRLAB15:KJD
Date Inj'd	: 2/27/2020 0:2: 8	Instrument	:
Sample	: L2409206-10,3,250,250	Quant Date	: 2/27/2024 7:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543062_Ev2.D
Acq On : 27 Feb 2024 1:09 AM
Operator : AIRLAB15:KJD
Sample : L2409206-12,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:53 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : 7-NY-SIM - .

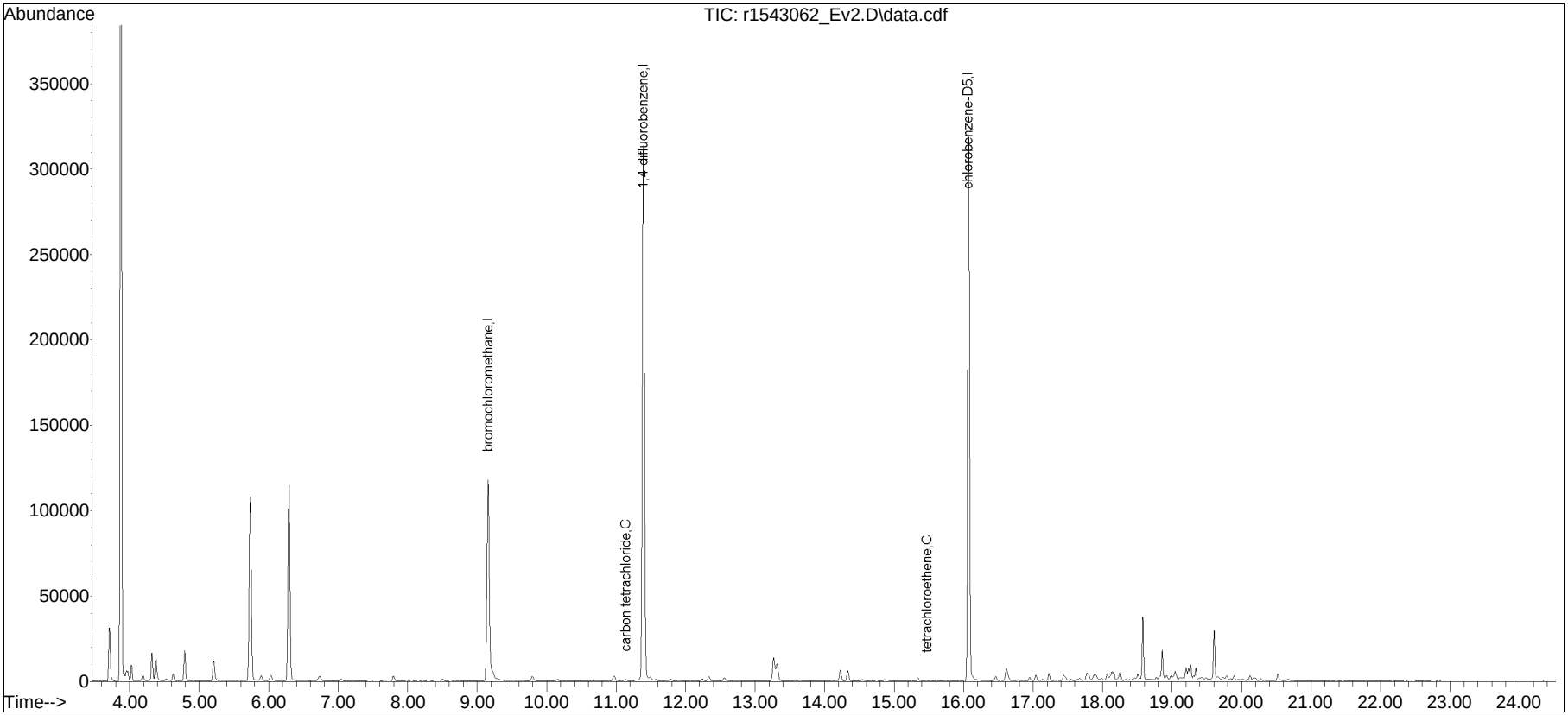
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.158	49	136441	10.000	ppbV	0.09
Standard Area = 147461			Recovery =		92.53%	
33) 1,4-difluorobenzene	11.393	114	383370	10.000	ppbV	0.11
Standard Area = 439351			Recovery =		87.26%	
51) chlorobenzene-D5	16.067	54	71731	10.000	ppbV	0.07
Standard Area = 77617			Recovery =		92.42%	
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	11.140	117	974	0.082	ppbV	94
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.475	166	210	0.013	ppbV #	78

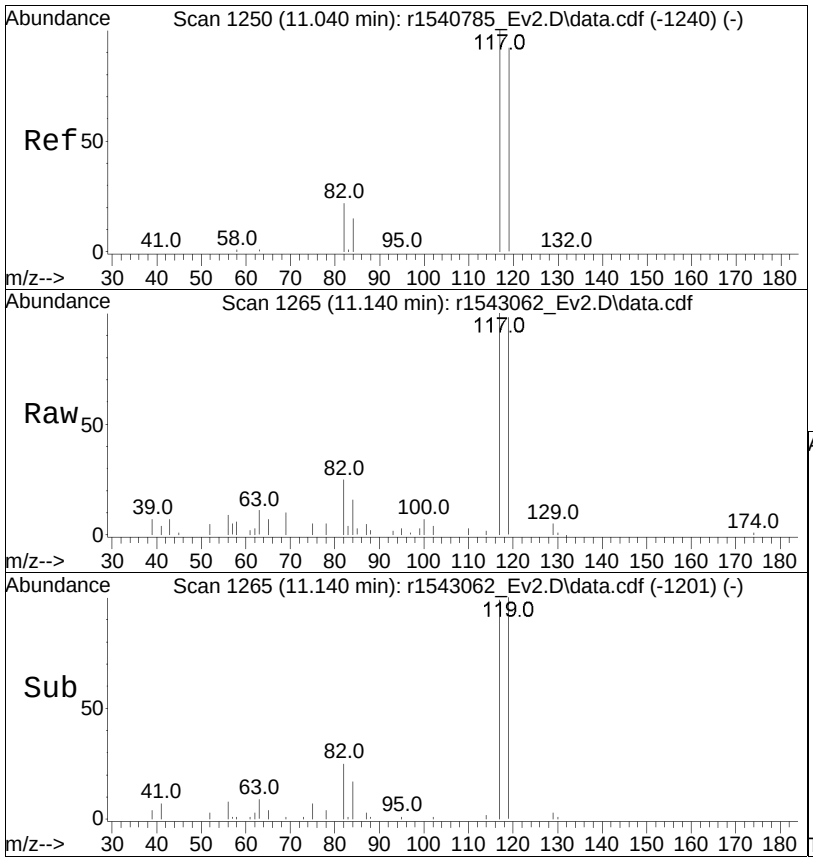
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543062_Ev2.D
Acq On : 27 Feb 2024 1:09 AM
Operator : AIRLAB15:KJD
Sample : L2409206-12,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:53 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

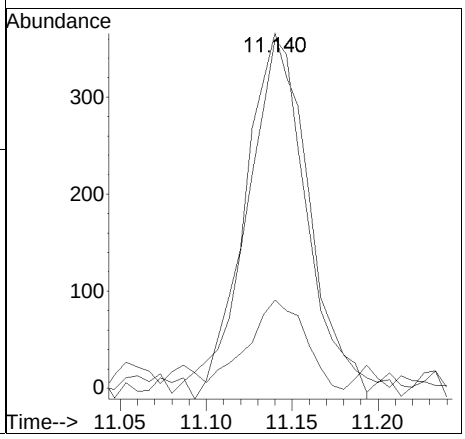


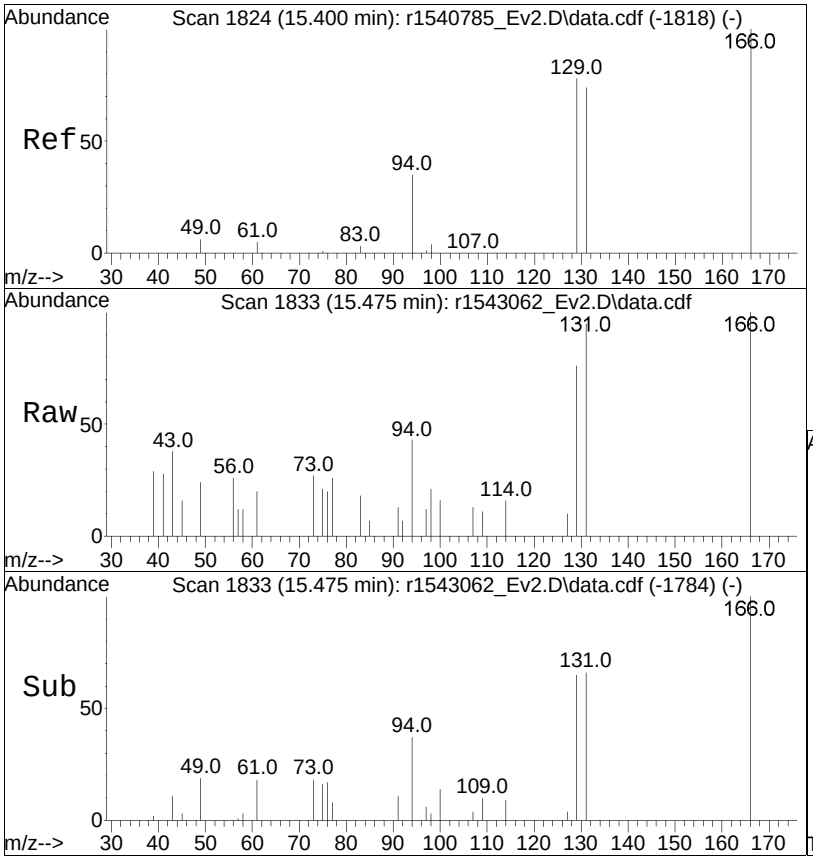


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 11.140 min Scan# 1265
Delta R.T. 0.100 min
Lab File: r1543062_Ev2.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion:117 Resp: 974

Ion	Ratio	Lower	Upper
117	100		
119	98.4	73.8	110.6
82	24.9	17.8	26.8

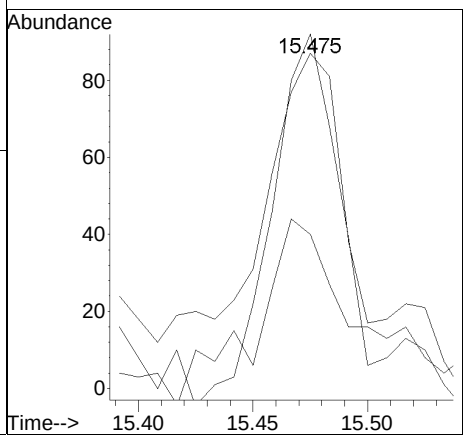




#57
tetrachloroethene
Concen: 0.01 ppbV
RT: 15.475 min Scan# 1833
Delta R.T. 0.075 min
Lab File: r1543062_Ev2.D
Acq: 27 Feb 2024 1:09 AM

Tgt Ion:166 Resp: 210

Ion	Ratio	Lower	Upper
166	100		
131	94.6	58.9	88.3#
94	43.5	27.8	41.6#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_231120.M
Data File	: r1543062_Ev2.D	Operator	: AIRLAB15:KJD
Date Inj'd	: 2/27/2020 0:1: 9	Instrument	:
Sample	: L2409206-12,3,250,250	Quant Date	: 2/27/2024 7:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543063_Ev2.D
Acq On : 27 Feb 2024 1:52 AM
Operator : AIRLAB15:KJD
Sample : L2409206-14,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:59 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : 7-NY-SIM - .

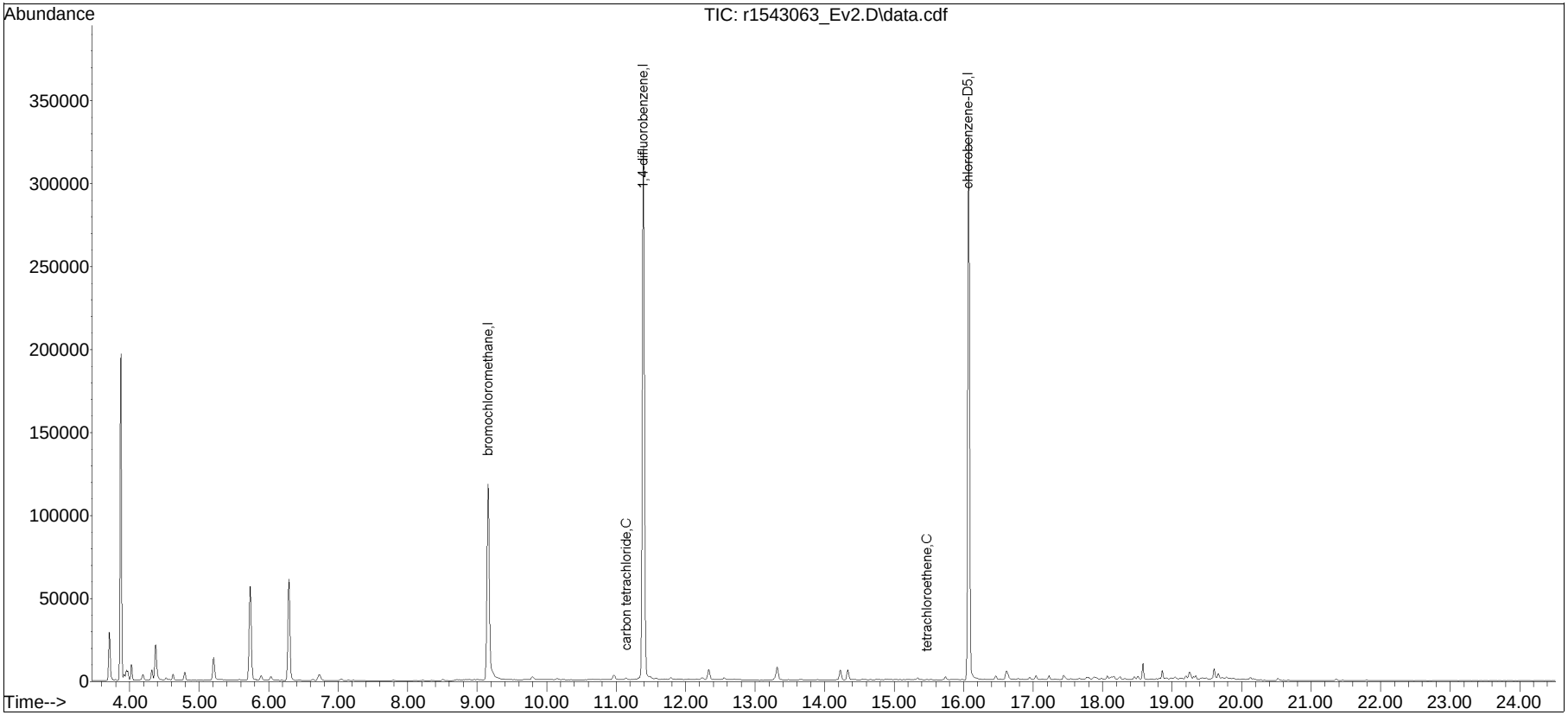
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.158	49	137282	10.000	ppbV	0.09
Standard Area = 147461			Recovery =		93.10%	
33) 1,4-difluorobenzene	11.393	114	387048	10.000	ppbV	0.11
Standard Area = 439351			Recovery =		88.10%	
51) chlorobenzene-D5	16.067	54	72603	10.000	ppbV	0.07
Standard Area = 77617			Recovery =		93.54%	
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	11.147	117	808	0.067	ppbV	96
44) trichloroethene	0.000		0	N.D.	d	
57) tetrachloroethene	15.475	166	172	0.011	ppbV #	83

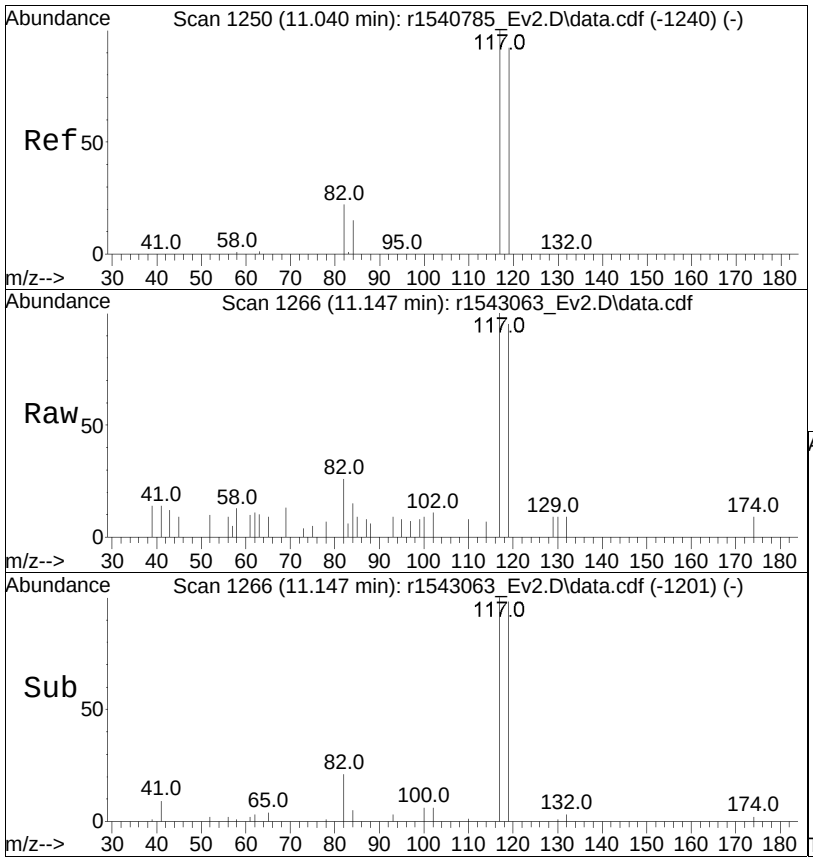
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543063_Ev2.D
Acq On : 27 Feb 2024 1:52 AM
Operator : AIRLAB15:KJD
Sample : L2409206-14,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:59 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

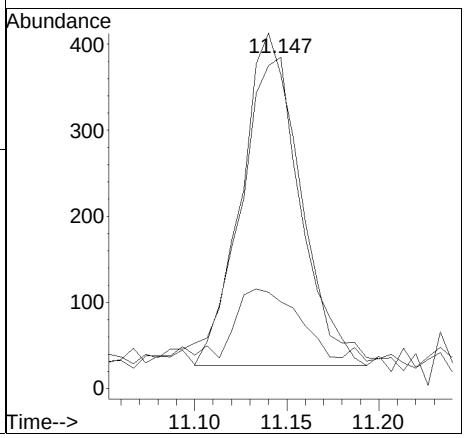


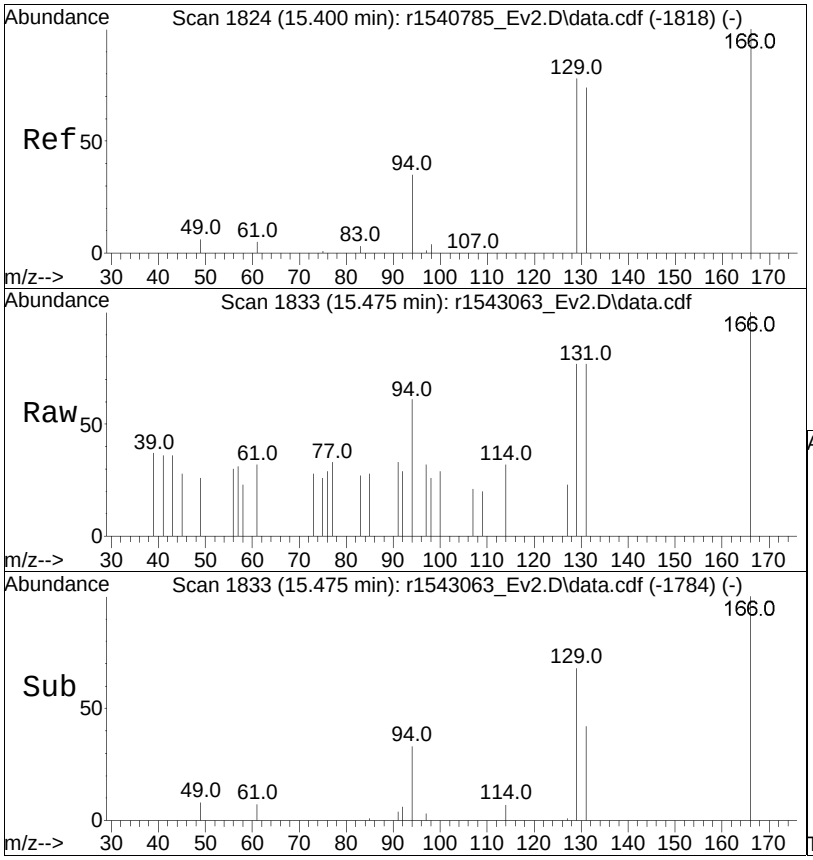


#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.147 min Scan# 1266
Delta R.T. 0.107 min
Lab File: r1543063_Ev2.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion:117 Resp: 808

Ion	Ratio	Lower	Upper
117	100		
119	94.8	73.8	110.6
82	26.2	17.8	26.8

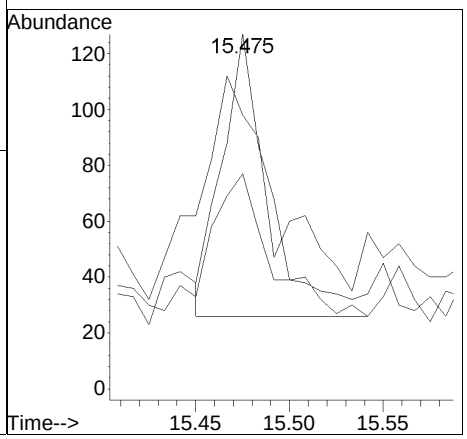




#57
tetrachloroethene
Concen: 0.01 ppbV
RT: 15.475 min Scan# 1833
Delta R.T. 0.075 min
Lab File: r1543063_Ev2.D
Acq: 27 Feb 2024 1:52 AM

Tgt Ion:166 Resp: 172

Ion	Ratio	Lower	Upper
166	100		
131	77.2	58.9	88.3
94	60.6	27.8	41.6#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_231120.M
Data File	: r1543063_Ev2.D	Operator	: AIRLAB15:KJD
Date Inj'd	: 2/27/2020 0:1: 2	Instrument	:
Sample	: L2409206-14,3,250,250	Quant Date	: 2/27/2024 7:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222761_Ev2.D
Acq On : 1 Mar 2024 5:47 PM
Operator : AIRLAB22:BJB
Sample : L2409206-01,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:28:43 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : ETOH_Only - Sub List Unknown

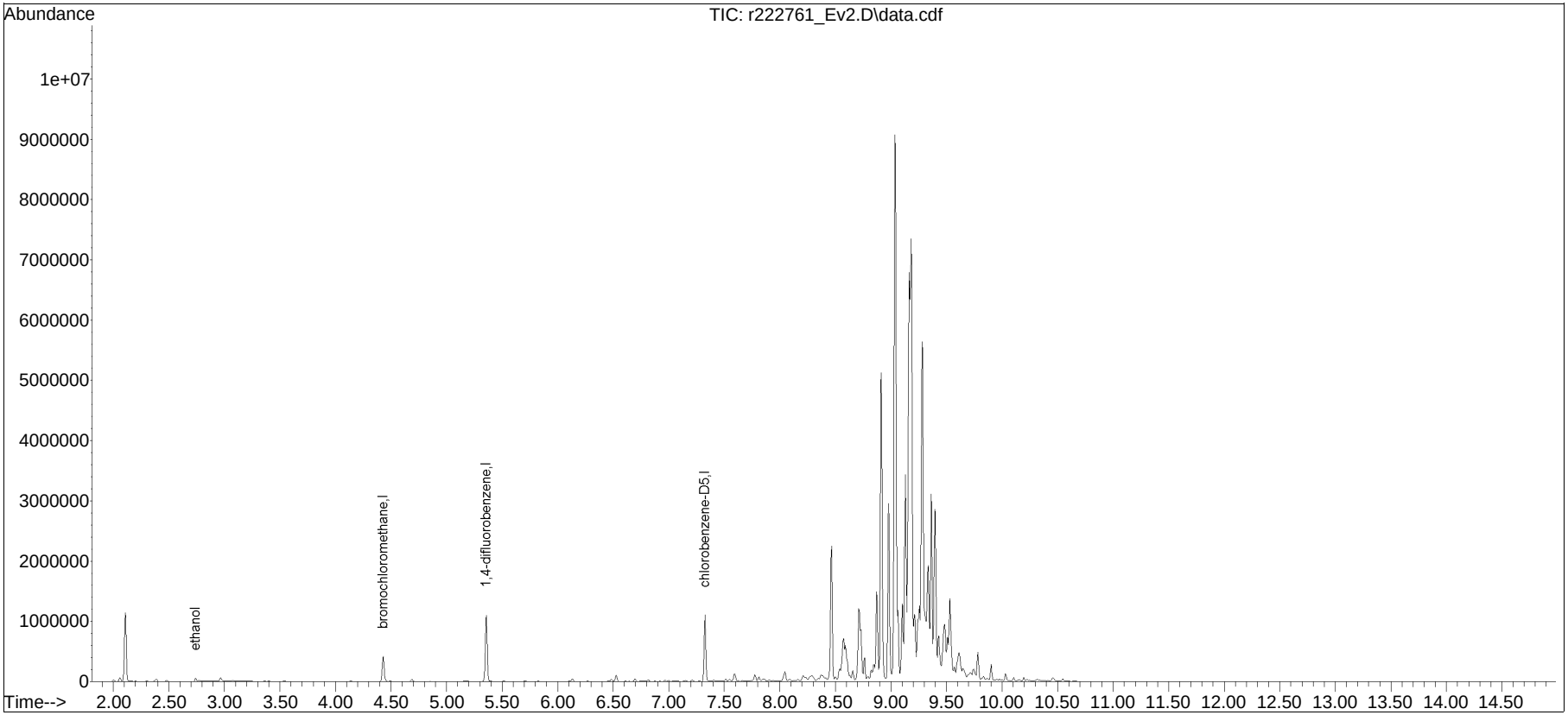
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.430	49	234450	10.000	ppbV	-0.01
Standard Area = 255414			Recovery =		91.79%	
33) 1,4-difluorobenzene	5.357	114	788009	10.000	ppbV	-0.01
Standard Area = 870699			Recovery =		90.50%	
51) chlorobenzene-D5	7.327	54	100230	10.000	ppbV	-0.01
Standard Area = 103994			Recovery =		96.38%	
System Monitoring Compounds						
Target Compounds						Qvalue
10) ethanol	2.740	31	24054	6.334	ppbV	98

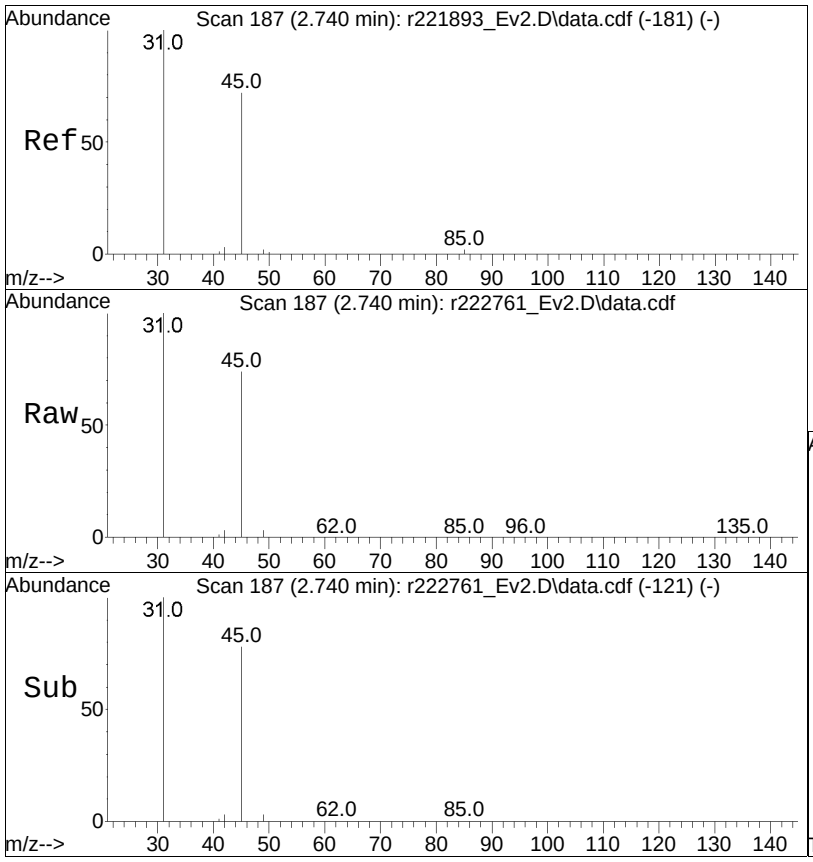
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_Only - Sub List Unknown024\03\0301SIM\r222758_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222761_Ev2.D
Acq On : 1 Mar 2024 5:47 PM
Operator : AIRLAB22:BJB
Sample : L2409206-01,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:28:43 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

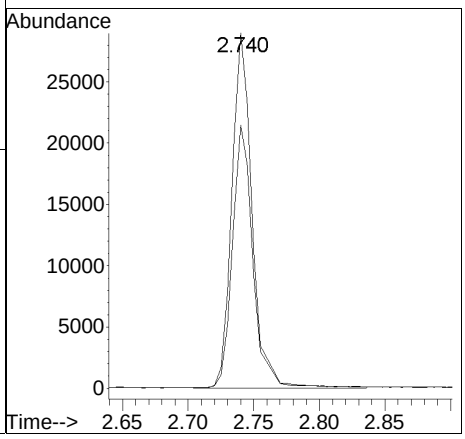




#10
ethanol
Concen: 6.33 ppbV
RT: 2.740 min Scan# 187
Delta R.T. 0.000 min
Lab File: r222761_Ev2.D
Acq: 1 Mar 2024 5:47 PM

Tgt Ion: 31 Resp: 24054

Ion	Ratio	Lower	Upper
31	100		
45	74.1	57.8	86.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab22Q	Method	: TSIM22_231129.M
Data File	: r222761_Ev2.D	Operator	: AIRLAB22:BJB
Date Inj'd	: 3/1/2020 0:5: 7	Instrument	:
Sample	: L2409206-01,3,250,250	Quant Date	: 3/2/2024 8:28 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222762_Ev2.D
Acq On : 1 Mar 2024 6:19 PM
Operator : AIRLAB22:BJB
Sample : L2409206-03,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:28:48 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : ETOH_Only - Sub List Unknown

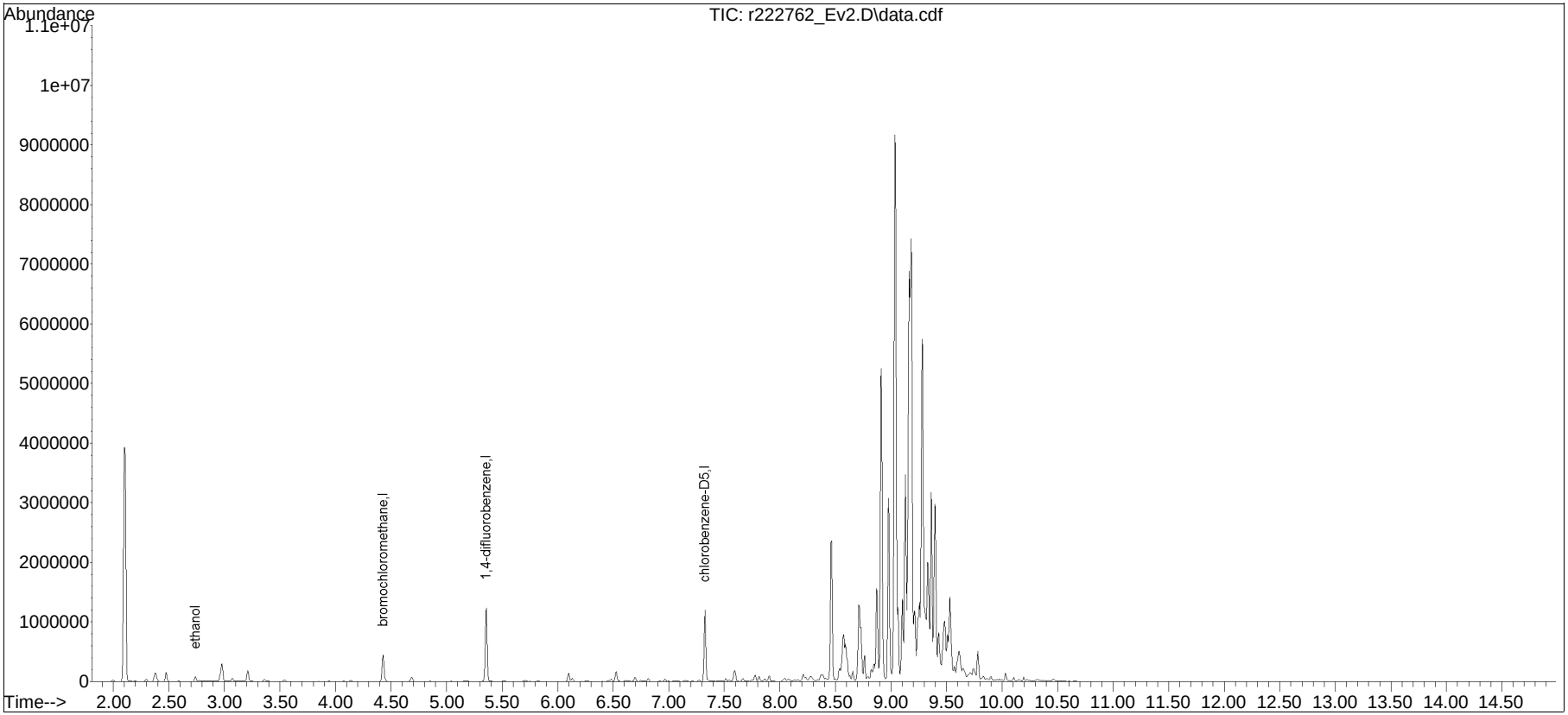
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.430	49	257193	10.000	ppbV	-0.01
Standard Area = 255414			Recovery = 100.70%			
33) 1,4-difluorobenzene	5.357	114	869984	10.000	ppbV	-0.01
Standard Area = 870699			Recovery = 99.92%			
51) chlorobenzene-D5	7.327	54	102332	10.000	ppbV	-0.01
Standard Area = 103994			Recovery = 98.40%			
System Monitoring Compounds						
Target Compounds						Qvalue
10) ethanol	2.740	31	45132	10.834	ppbV	97

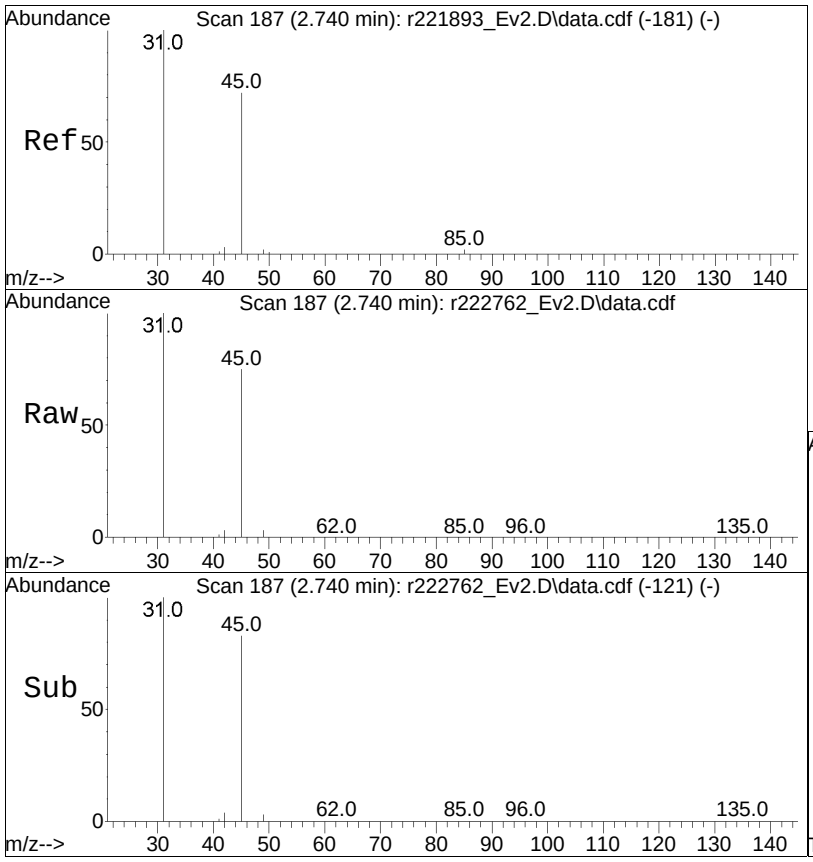
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_Only - Sub List Unknown024\03\0301SIM\r222758_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222762_Ev2.D
Acq On : 1 Mar 2024 6:19 PM
Operator : AIRLAB22:BJB
Sample : L2409206-03,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:28:48 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

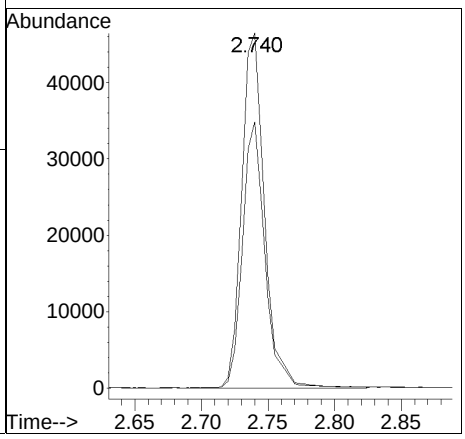




#10
ethanol
Concen: 10.83 ppbV
RT: 2.740 min Scan# 187
Delta R.T. 0.000 min
Lab File: r222762_Ev2.D
Acq: 1 Mar 2024 6:19 PM

Tgt Ion: 31 Resp: 45132

Ion	Ratio	Lower	Upper
31	100		
45	75.0	57.8	86.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab22Q	Method	: TSIM22_231129.M
Data File	: r222762_Ev2.D	Operator	: AIRLAB22:BJB
Date Inj'd	: 3/1/2020 0:6: 9	Instrument	:
Sample	: L2409206-03,3,250,250	Quant Date	: 3/2/2024 8:28 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222763_Ev2.D
Acq On : 1 Mar 2024 6:51 PM
Operator : AIRLAB22:BJB
Sample : L2409206-05,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:28:52 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : ETOH_Only - Sub List Unknown

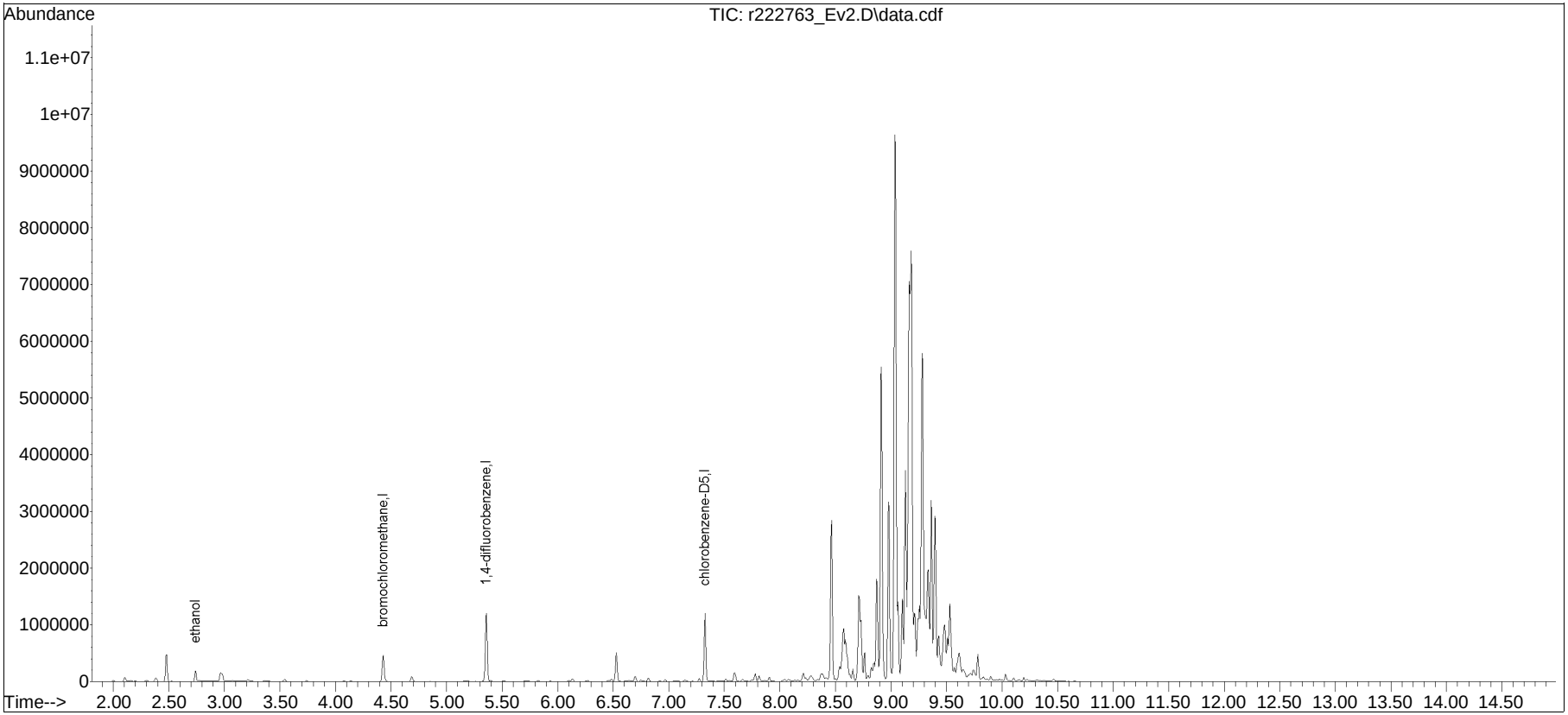
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.430	49	259690	10.000	ppbV	-0.01
Standard Area = 255414			Recovery = 101.67%			
33) 1,4-difluorobenzene	5.357	114	881297	10.000	ppbV	-0.01
Standard Area = 870699			Recovery = 101.22%			
51) chlorobenzene-D5	7.327	54	99364	10.000	ppbV	-0.01
Standard Area = 103994			Recovery = 95.55%			
System Monitoring Compounds						
Target Compounds						Qvalue
10) ethanol	2.740	31	85760	20.389	ppbV	99

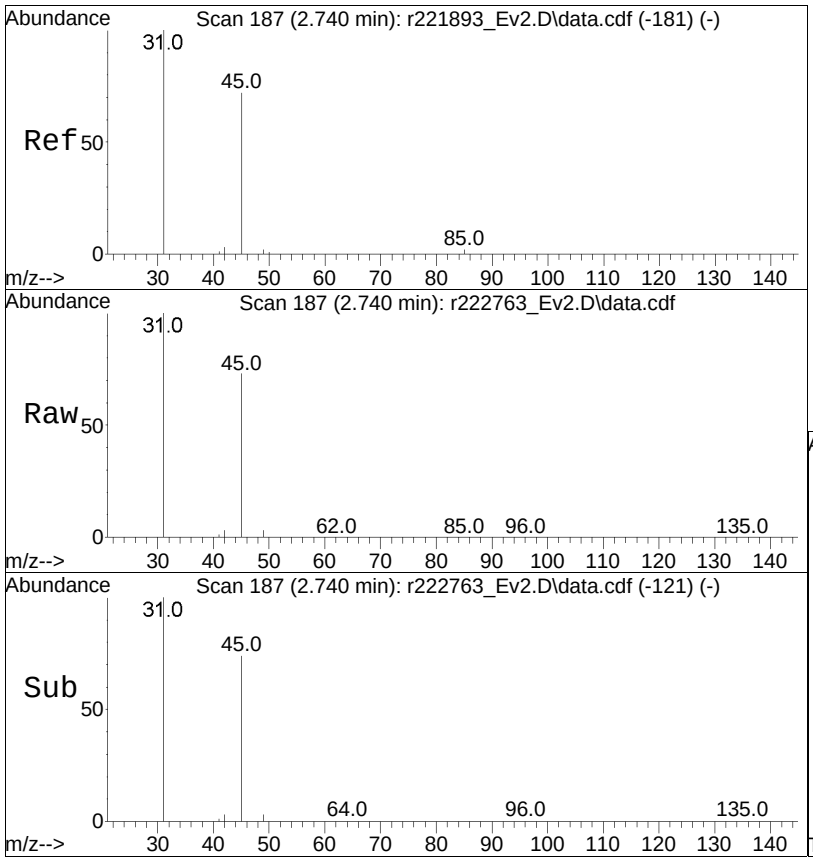
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_Only - Sub List Unknown024\03\0301SIM\r222758_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222763_Ev2.D
Acq On : 1 Mar 2024 6:51 PM
Operator : AIRLAB22:BJB
Sample : L2409206-05,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:28:52 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

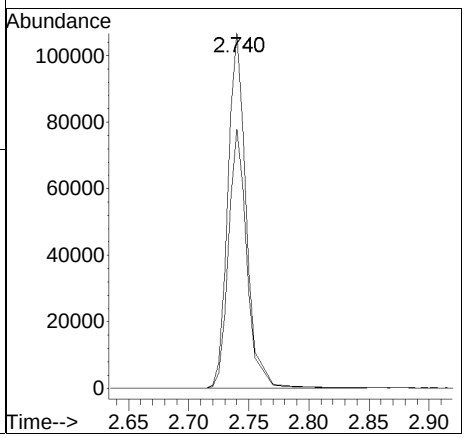




#10
ethanol
Concen: 20.39 ppbV
RT: 2.740 min Scan# 187
Delta R.T. 0.000 min
Lab File: r222763_Ev2.D
Acq: 1 Mar 2024 6:51 PM

Tgt Ion: 31 Resp: 85760

Ion	Ratio	Lower	Upper
31	100		
45	73.0	57.8	86.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab22Q	Method	: TSIM22_231129.M
Data File	: r222763_Ev2.D	Operator	: AIRLAB22:BJB
Date Inj'd	: 3/1/2020 0:6: 1	Instrument	:
Sample	: L2409206-05,3,250,250	Quant Date	: 3/2/2024 8:28 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222766_Ev2.D
Acq On : 1 Mar 2024 8:26 PM
Operator : AIRLAB22:BJB
Sample : L2409206-09,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:29:04 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : ETOH_Only - Sub List Unknown

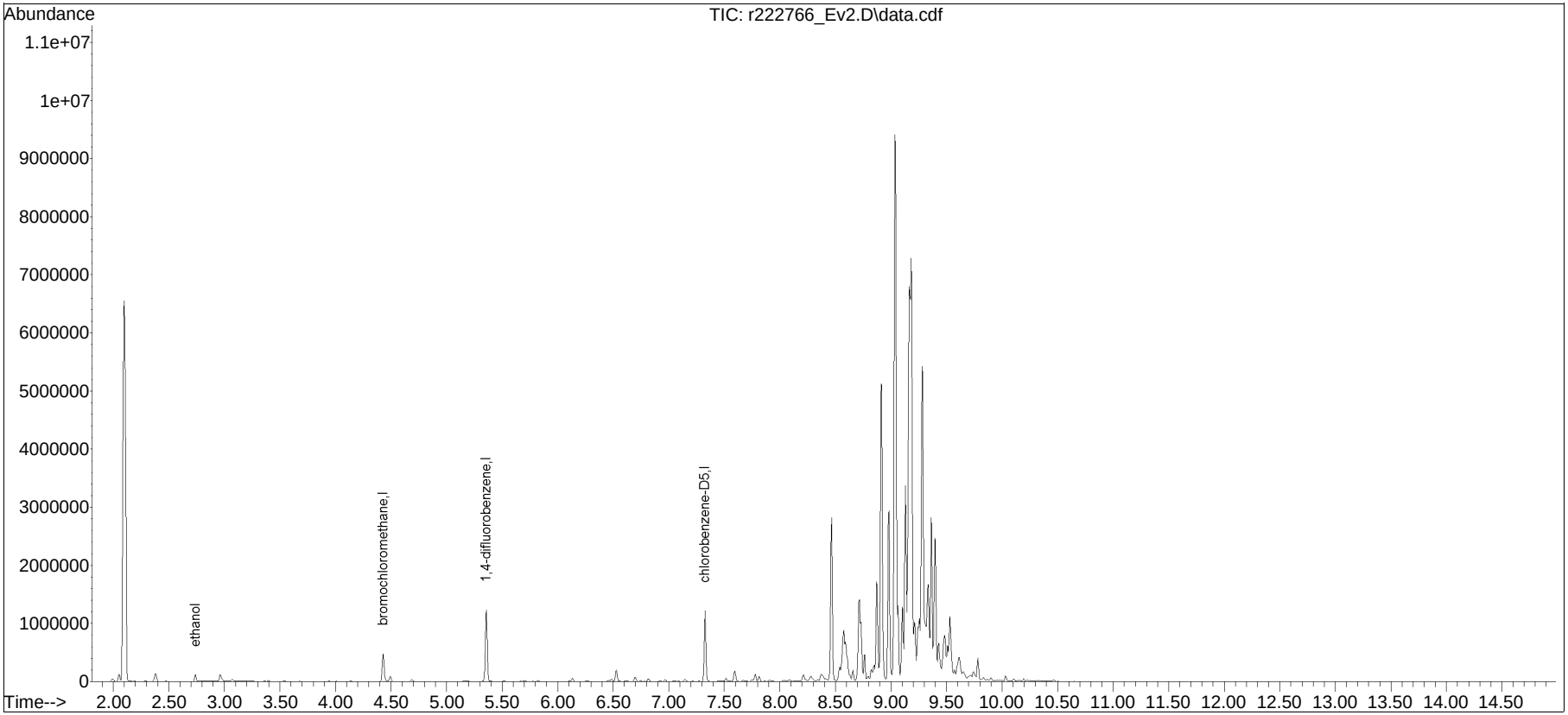
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.430	49	267756	10.000	ppbV	-0.01
Standard Area = 255414			Recovery = 104.83%			
33) 1,4-difluorobenzene	5.357	114	912706	10.000	ppbV	-0.01
Standard Area = 870699			Recovery = 104.82%			
51) chlorobenzene-D5	7.327	54	94495	10.000	ppbV	-0.01
Standard Area = 103994			Recovery = 90.87%			
System Monitoring Compounds						
Target Compounds						Qvalue
10) ethanol	2.740	31	63549	14.653	ppbV	100

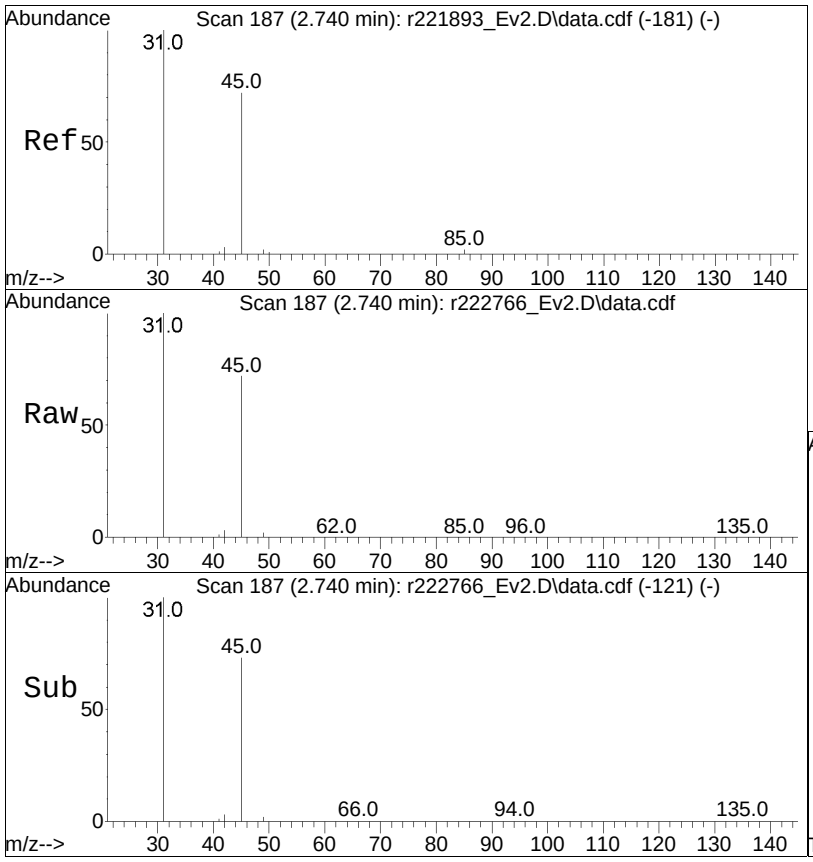
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_Only - Sub List Unknown024\03\0301SIM\r222758_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222766_Ev2.D
Acq On : 1 Mar 2024 8:26 PM
Operator : AIRLAB22:BJB
Sample : L2409206-09,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:29:04 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

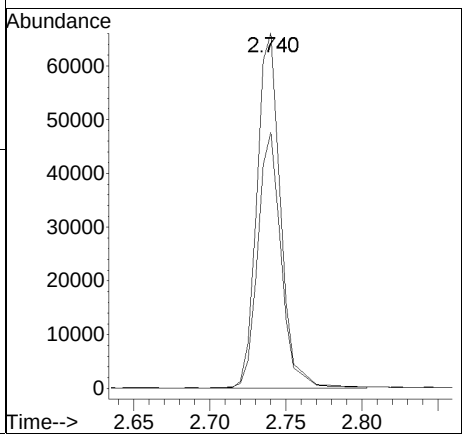




#10
ethanol
Concen: 14.65 ppbV
RT: 2.740 min Scan# 187
Delta R.T. 0.000 min
Lab File: r222766_Ev2.D
Acq: 1 Mar 2024 8:26 PM

Tgt Ion: 31 Resp: 63549

Ion	Ratio	Lower	Upper
31	100		
45	72.1	57.8	86.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab22Q	Method	: TSIM22_231129.M
Data File	: r222766_Ev2.D	Operator	: AIRLAB22:BJB
Date Inj'd	: 3/1/2020 0:8: 6	Instrument	:
Sample	: L2409206-09,3,250,250	Quant Date	: 3/2/2024 8:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222767_Ev2.D
Acq On : 1 Mar 2024 9:00 PM
Operator : AIRLAB22:BJB
Sample : L2409206-11,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:29:08 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : ETOH_Only - Sub List Unknown

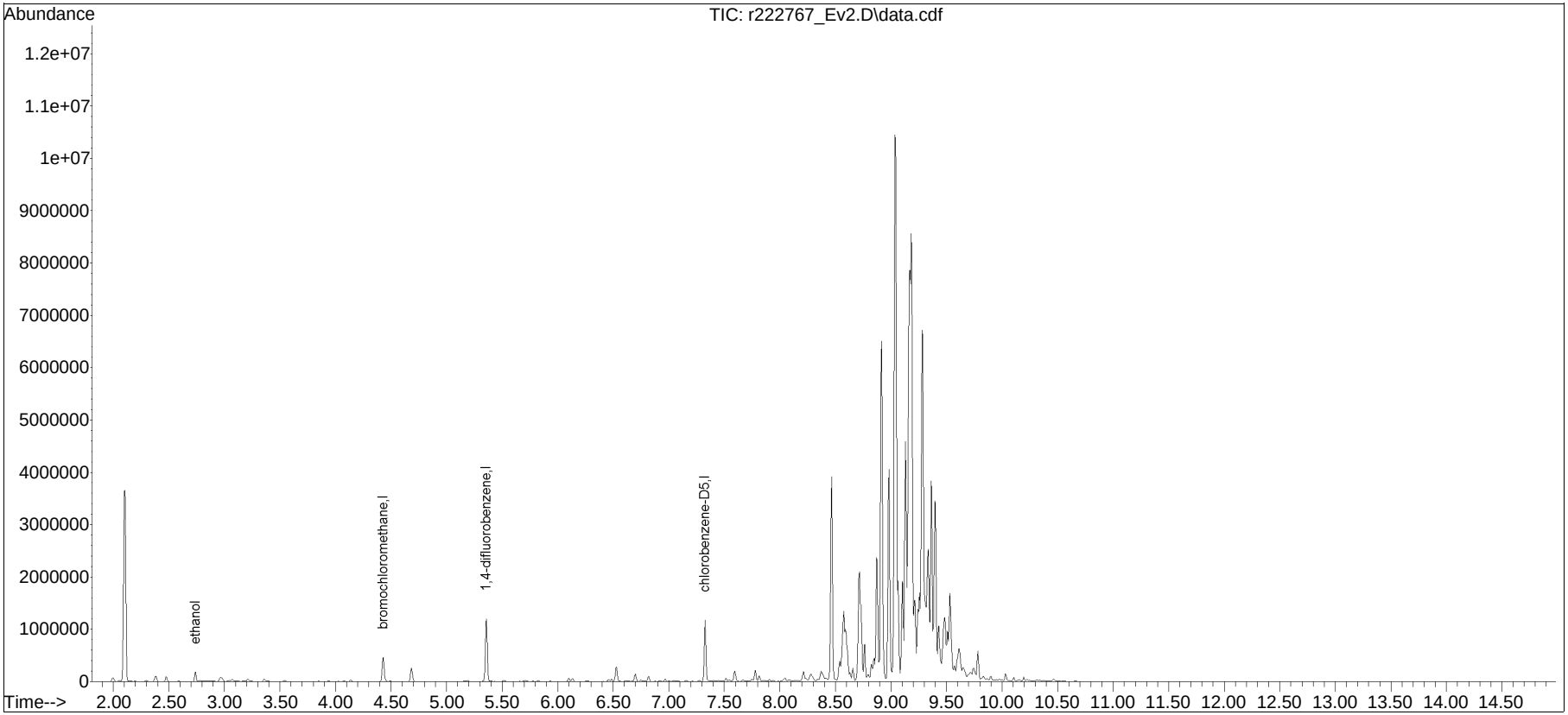
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.430	49	263960	10.000	ppbV	-0.01
Standard Area = 255414			Recovery = 103.35%			
33) 1,4-difluorobenzene	5.357	114	901659	10.000	ppbV	-0.01
Standard Area = 870699			Recovery = 103.56%			
51) chlorobenzene-D5	7.327	54	92252	10.000	ppbV	-0.01
Standard Area = 103994			Recovery = 88.71%			
System Monitoring Compounds						
Target Compounds						Qvalue
10) ethanol	2.740	31	85288	19.949	ppbV	99

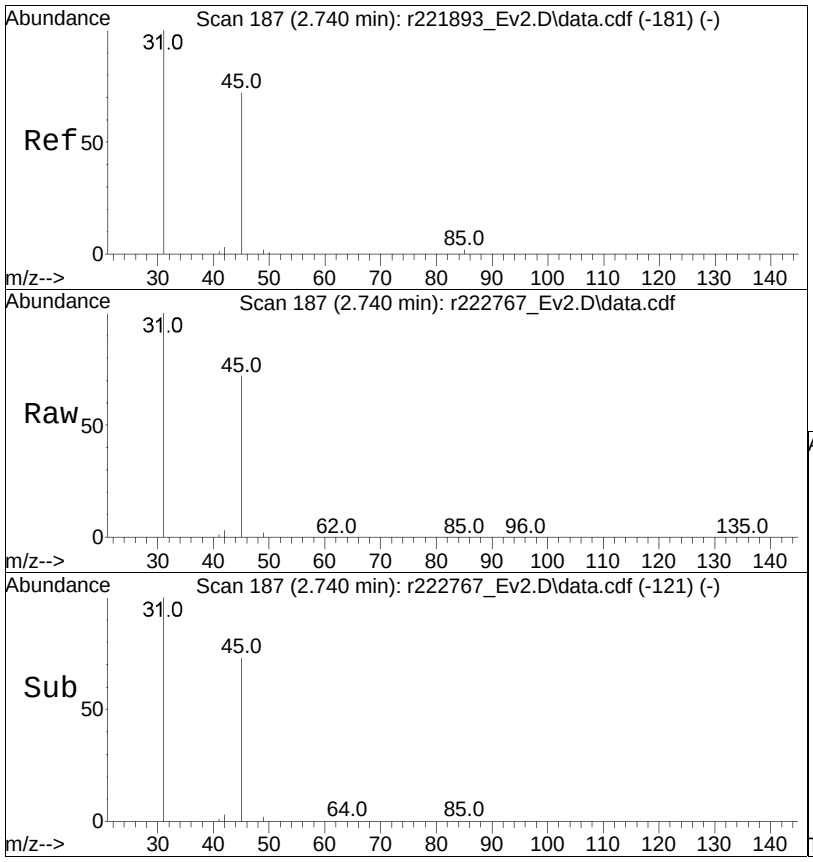
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_Only - Sub List Unknown024\03\0301SIM\r222758_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222767_Ev2.D
Acq On : 1 Mar 2024 9:00 PM
Operator : AIRLAB22:BJB
Sample : L2409206-11,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:29:08 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

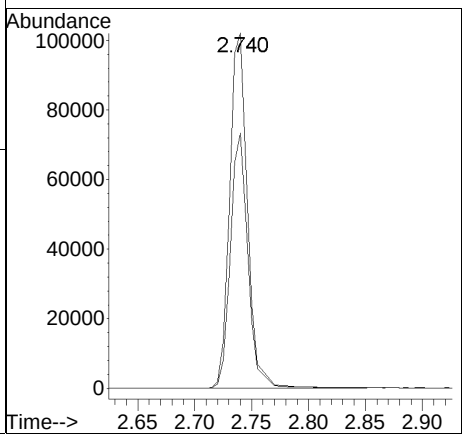




#10
ethanol
Concen: 19.95 ppbV
RT: 2.740 min Scan# 187
Delta R.T. 0.000 min
Lab File: r222767_Ev2.D
Acq: 1 Mar 2024 9:00 PM

Tgt Ion: 31 Resp: 85288

Ion	Ratio	Lower	Upper
31	100		
45	71.8	57.8	86.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab22Q	Method	: TSIM22_231129.M
Data File	: r222767_Ev2.D	Operator	: AIRLAB22:BJB
Date Inj'd	: 3/1/2020 0:9: 0	Instrument	:
Sample	: L2409206-11,3,250,250	Quant Date	: 3/2/2024 8:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222768_Ev2.D
Acq On : 1 Mar 2024 9:32 PM
Operator : AIRLAB22:BJB
Sample : L2409206-13,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:29:12 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : ETOH_Only - Sub List Unknown

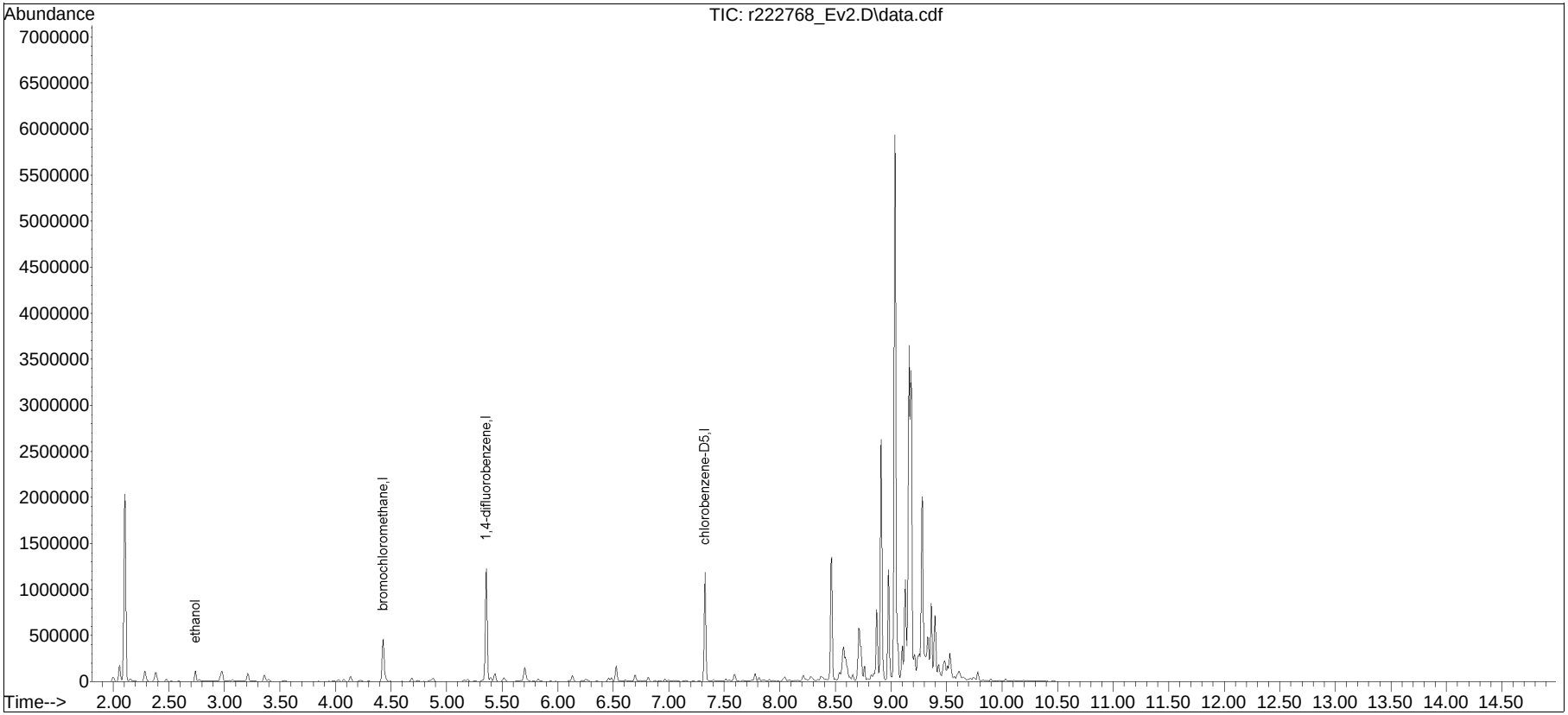
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.430	49	262895	10.000	ppbV	-0.01
Standard Area = 255414			Recovery = 102.93%			
33) 1,4-difluorobenzene	5.357	114	900840	10.000	ppbV	-0.01
Standard Area = 870699			Recovery = 103.46%			
51) chlorobenzene-D5	7.327	54	90272	10.000	ppbV	-0.01
Standard Area = 103994			Recovery = 86.81%			
System Monitoring Compounds						
Target Compounds						Qvalue
10) ethanol	2.740	31	53753	12.624	ppbV	98

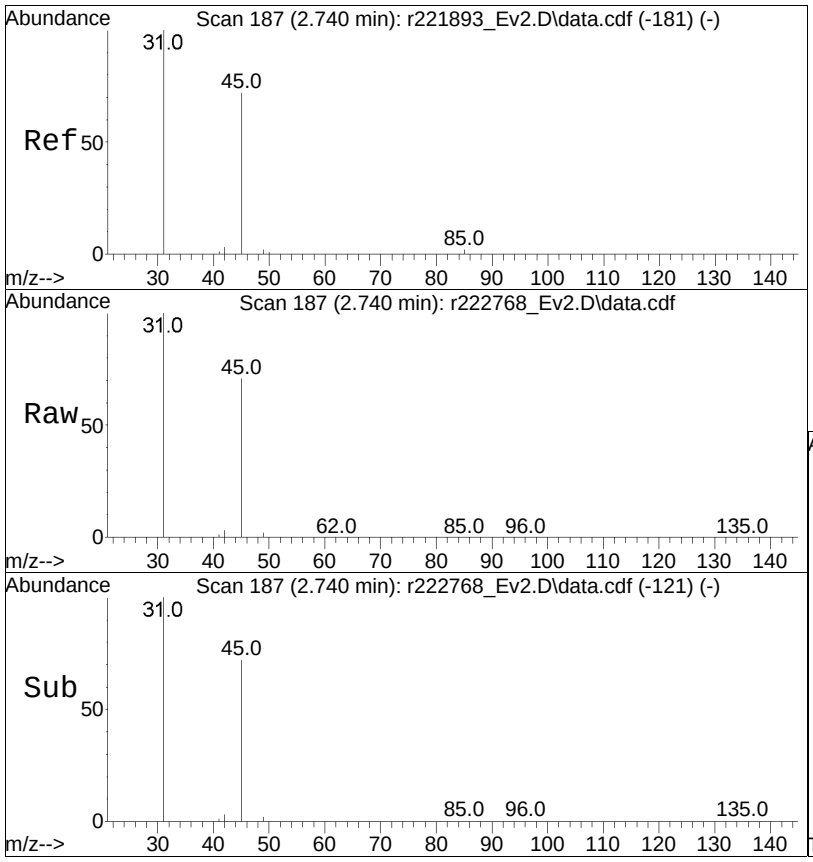
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_Only - Sub List Unknown024\03\0301SIM\r222758_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222768_Ev2.D
Acq On : 1 Mar 2024 9:32 PM
Operator : AIRLAB22:BJB
Sample : L2409206-13,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:29:12 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

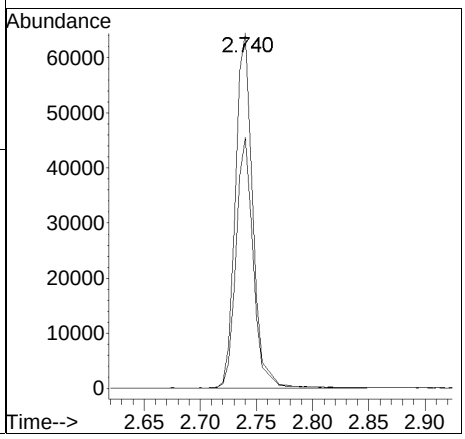




#10
ethanol
Concen: 12.62 ppbV
RT: 2.740 min Scan# 187
Delta R.T. 0.000 min
Lab File: r222768_Ev2.D
Acq: 1 Mar 2024 9:32 PM

Tgt Ion: 31 Resp: 53753

Ion	Ratio	Lower	Upper
31	100		
45	70.6	57.8	86.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab22Q	Method	: TSIM22_231129.M
Data File	: r222768_Ev2.D	Operator	: AIRLAB22:BJB
Date Inj'd	: 3/1/2020 0:9: 2	Instrument	:
Sample	: L2409206-13,3,250,250	Quant Date	: 3/2/2024 8:29 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	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL20577**
Calibration dates	**: 11/20/23 19:52 11/21/23 01:39**		

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D

1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_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				0.616	0.584	0.580	0.495	0.502	0.483	0.515	0.539	9.81
3)		dichlorodifluoromethane				1.312	1.311	1.289	1.241	1.161	1.025	0.983	1.189	11.55
4)	C	chloromethane				0.491	0.497	0.491	0.469	0.437	0.384	0.369	0.448	11.84
5)		Freon-114		1.246	1.277	1.342	1.316	1.313	1.248	1.167	1.004	0.891	1.201	12.91
6)	C	vinyl chloride	0.635	0.664	0.661	0.675	0.655	0.647	0.636	0.638	0.594	0.575	0.638	4.95
7)	C	1,3-butadiene	0.414	0.410	0.397	0.493	0.466	0.474	0.443	0.425	0.388	0.356	0.427	9.99
8)	C	bromomethane	0.588	0.627	0.555	0.570	0.550	0.555	0.538	0.532	0.492	0.461	0.547	8.50
9)	C	chloroethane			0.305	0.318	0.305	0.307	0.296	0.296	0.287	0.286	0.300	3.58
10)		ethanol					0.464	0.461	0.439	0.398	0.385	0.337	0.414	12.02
11)	C	vinyl bromide				0.493	0.473	0.484	0.450	0.453	0.460	0.469	0.469	3.41
12)	C	acrolein		0.293	0.282	0.249	0.257	0.255	0.240	0.242	0.235	0.220	0.252	9.06
13)		acetone				0.616	0.583	0.588	0.529	0.515	0.494	0.474	0.543	9.87
14)		trichlorofluoromethane		0.887	0.947	0.942	0.911	0.912	0.882	0.864	0.808	0.773	0.881	6.62
15)		isopropyl alcohol				0.774	0.751	0.752	0.657	0.653	0.650	0.628	0.695	8.81
16)	C	acrylonitrile				0.382	0.581	0.507	0.558	0.506	0.506	0.602	0.520	13.94
17)	C	1,1-dichloroethene	0.927	1.030	0.971	1.010	0.979	0.978	0.958	0.988	0.964	0.992	0.980	2.91
18)		tertiary butyl alcohol					1.137	1.142	1.085	1.124	1.208	1.268	1.160	5.70
19)	C	methylene chloride					0.860	0.849	0.791	0.778	0.730	0.697	0.784	8.16
20)	C	3-chloropropene					0.842	0.840	0.817	0.821	0.838	0.874	0.839	2.40
21)	C	carbon disulfide				1.894	1.866	1.893	1.810	1.810	1.836	1.784	1.842	2.35
22)		Freon 113	1.145	1.162	1.156	1.203	1.160	1.154	1.109	1.099	1.069	1.122	1.138	3.40
23)		trans-1,2-dichloroethene	0.890	0.878	0.882	0.996	0.965	0.980	0.929	0.933	0.964	1.011	0.943	5.10
24)	C	1,1-dichloroethane	1.333	1.175	1.209	1.246	1.227	1.219	1.186	1.180	1.160	1.228	1.216	4.05
25)	C	MTBE	1.528	1.521	1.545	1.560	1.534	1.546	1.465	1.455	1.461	1.460	1.507	2.79
26)	C	vinyl acetate					1.182	1.222	1.114	1.182	1.252	1.296	1.208	5.25
27)	C	2-butanone				1.369	1.327	1.336	1.263	1.272	1.277	1.286	1.304	3.06
28)		cis-1,2-dichloroethene	1.039	0.918	0.903	0.936	0.923	0.926	0.919	0.923	0.914	0.955	0.936	4.14
29)		Ethyl Acetate					0.242	0.236	0.234	0.239	0.250	0.267	0.245	5.07
30)	C	chloroform	1.366	1.302	1.368	1.364	1.324	1.318	1.271	1.254	1.184	1.108	1.286	6.64
31)		Tetrahydrofuran				0.800	0.835	0.818	0.786	0.790	0.807	0.834	0.810	2.43
32)	C	1,2-dichloroethane	0.646	0.758	0.719	0.877	0.788	0.759	0.723	0.713	0.680	0.670	0.733	9.11
33)	I	1,4-difluorobenzene	----------ISTD----------											
34)	C	hexane				0.479	0.460	0.465	0.435	0.435	0.435	0.393	0.443	6.36
35)	s	1,2-dichloroethane-D4				0.362	0.371	0.363	0.369	0.368	0.359	0.342	0.362	2.72
36)	C	1,1,1-trichloroethane	0.337	0.335	0.330	0.340	0.333	0.331	0.327	0.331	0.316	0.298	0.328	3.76

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL20577**
Calibration dates	**: 11/20/23 19:52 11/21/23 01:39**		

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D

1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_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			0.881	0.891	0.858	0.854	0.837	0.832	0.786	0.721	0.832	6.64
38)	C	carbon tetrachloride	0.299	0.288	0.312	0.322	0.317	0.317	0.325	0.332	0.311	0.279	0.310	5.37
39)		cyclohexane				0.494	0.500	0.493	0.471	0.472	0.478	0.447	0.479	3.77
40)		Dibromomethane		0.286	0.249	0.261	0.250	0.248	0.236	0.237	0.239	0.235	0.249	6.60
41)	C	1,2-dichloropropane	0.363	0.292	0.301	0.310	0.292	0.294	0.292	0.294	0.286	0.285	0.301	7.59
42)		bromodichloromethane	0.374	0.411	0.395	0.412	0.414	0.428	0.420	0.425	0.421	0.374	0.407	4.85
43)	C	1,4-dioxane			0.180	0.188	0.183	0.186	0.182	0.187	0.195	0.189	0.186	2.62
44)	C	trichloroethene	0.356	0.377	0.301	0.334	0.329	0.333	0.330	0.332	0.324	0.320	0.334	6.13
45)	C	2,2,4-trimethylpentane		1.507	1.477	1.555	1.559	1.556	1.463	1.431	1.425	1.310	1.476	5.51
46)		heptane				0.510	0.507	0.507	0.479	0.477	0.466	0.427	0.482	6.20
47)	C	cis-1,3-dichloropropene	0.355	0.306	0.330	0.356	0.362	0.368	0.393	0.399	0.382	0.358	0.361	7.71
48)	C	4-methyl-2-pentanone					0.563	0.555	0.547	0.545	0.536	0.494	0.540	4.52
49)		trans-1,3-dichloropropene	0.240	0.233	0.246	0.266	0.283	0.287	0.313	0.323	0.310	0.289	0.279	11.42
50)	C	1,1,2-trichloroethane	0.319	0.281	0.293	0.306	0.296	0.297	0.292	0.295	0.286	0.292	0.296	3.50
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene			5.756	5.957	5.864	5.798	5.770	5.720	5.674	5.970	5.814	1.85
53)	s	toluene-D8				7.100	7.224	7.047	7.090	7.120	7.304	8.420	7.329	6.67
54)		2-hexanone				2.834	2.898	2.987	3.046	3.034	3.049	3.148	2.999	3.49
55)		dibromochloromethane	1.995	2.061	1.955	2.064	2.067	2.122	2.213	2.283	2.434	2.572	2.177	9.17
56)	C	1,2-dibromoethane	2.390	2.426	2.427	2.530	2.578	2.604	2.677	2.655	2.585	2.730	2.560	4.50
57)	C	tetrachloroethene	2.332	2.268	2.182	2.335	2.253	2.224	2.226	2.173	2.172	2.276	2.244	2.69
58)		1,1,1,2-tetrachloroethane	2.105	1.722	1.705	1.797	1.785	1.797	1.820	1.837	1.907	1.982	1.846	6.61
59)	C	chlorobenzene	4.691	4.655	4.685	4.783	4.667	4.620	4.648	4.557	4.424	4.458	4.619	2.38
60)	C	ethylbenzene	7.155	7.141	7.147	7.242	7.322	7.293	7.480	7.417	7.344	7.716	7.326	2.44
61)	C	m+p-xylene	5.646	5.500	5.624	5.816	5.893	5.872	6.050	5.979	5.846	5.887	5.811	2.93
62)	C	bromoform	1.456	1.535	1.515	1.529	1.550	1.606	1.808	1.919	2.107	2.274	1.730	16.43
63)	C	styrene	3.984	4.005	3.872	4.513	4.545	4.634	4.803	4.787	4.718	4.978	4.484	8.72
64)	C	1,1,2,2-tetrachloroethane	4.496	4.427	4.440	4.515	4.530	4.520	4.735	4.709	4.487	4.161	4.502	3.50
65)	C	o-xylene	6.110	5.643	5.655	6.070	5.938	5.988	6.112	6.058	5.879	5.635	5.909	3.33
66)		1,2,3-Trichloropropane	3.192	3.099	3.340	3.327	3.359	3.330	3.253	3.176	3.146	3.118	3.234	3.08
67)	s	bromofluorobenzene				4.549	4.739	4.703	4.557	4.687	4.969	5.671	4.839	8.11
68)	C	isopropylbenzene				7.594	7.589	7.550	7.413	7.254	7.327	7.410	7.448	1.79
69)		Bromobenzene	4.132	4.280	4.273	4.448	4.435	4.453	4.315	4.243	4.178	4.096	4.285	3.02
70)		4-ethyl toluene	6.918	7.056	7.308	7.658	7.897	7.921	7.971	7.822	7.914	8.010	7.648	5.29
71)		1,3,5-trimethylbenzene	5.725	5.861	5.918	6.685	7.614	6.834	7.964	6.956	6.639	6.735	6.693	10.90
72)		tert-butylbenzene				7.237	7.277	7.330	7.438	7.333	7.082	6.480	7.168	4.50

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB15**	**Ical Ref**	**: ICAL20577**
Calibration dates	**: 11/20/23 19:52 11/21/23 01:39**		

Calibration Files

0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D

1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_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	6.116	5.873	6.261	6.690	6.811	6.863	7.223	7.066	6.665	6.222	6.579	6.70
74)	C	Benzyl Chloride			2.391	2.628	2.775	3.147	3.859	4.289	4.714	5.094	3.612	28.29
75)		1,3-dichlorobenzene	4.364	4.170	4.228	4.444	4.461	4.462	4.915	4.892	4.732	4.906	4.557	6.20
76)	C	1,4-dichlorobenzene	4.137	4.065	4.053	4.222	4.448	4.473	4.871	4.930	4.760	4.815	4.477	7.75
77)		sec-butylbenzene				9.363	9.686	9.600	9.776	9.607	9.572	9.491	9.585	1.39
78)		p-isopropyltoluene				8.209	8.760	8.721	8.526	7.532	8.101	7.146	8.142	7.50
79)		1,2-dichlorobenzene	4.068	3.938	3.816	4.023	4.219	4.252	4.599	4.695	4.512	4.630	4.275	7.39
80)		n-butylbenzene				6.878	7.319	7.482	7.958	8.084	8.107	8.012	7.692	6.16
81)		1,2-dibromo-3-chloropr...	1.145	1.173	1.178	1.218	1.370	1.428	1.621	1.641	1.616	1.689	1.408	15.66
82)	C	1,2,4-trichlorobenzene		2.049	2.098	2.099	2.643	2.883	3.464	3.938	3.700	4.018	2.988	27.22
83)		naphthalene		0.633	0.614	0.591	0.787	0.845	0.910	1.028	0.988	1.037	0.826	21.75
84)		1,2,3-trichlorobenzene		2.121	1.916	1.787	2.395	2.642	2.870	3.311	3.168	3.513	2.636	23.71
85)	C	hexachlorobutadiene		2.250	2.118	2.074	2.531	2.685	2.931	3.200	2.896	2.964	2.627	15.49

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB22**	**Ical Ref**	**: ICAL20614**
Calibration dates	**: 11/29/23 21:09 11/30/23 01:51**		

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D

1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------											
2)		propylene				0.816	0.682	0.676	0.584	0.570	0.598	0.584	0.644	13.68
3)		dichlorodifluoromethane				1.044	1.007	0.946	0.927	0.804	0.804	0.707	0.891	13.76
4)	C	chloromethane				0.493	0.461	0.455	0.426	0.424	0.418	0.416	0.442	6.55
5)		Freon-114		1.477	1.421	1.490	1.435	1.435	1.308	1.253	1.122	0.950	1.321	13.92
6)	C	vinyl chloride	0.827	0.655	0.624	0.662	0.628	0.637	0.593	0.580	0.542	0.512	0.626	13.68
7)	C	1,3-butadiene	0.505	0.470	0.432	0.478	0.460	0.460	0.416	0.409	0.396	0.373	0.440	9.39
8)	C	bromomethane	0.655	0.524	0.487	0.496	0.467	0.473	0.436	0.423	0.392	0.349	0.470	17.66
9)	C	chloroethane			0.258	0.256	0.242	0.268	0.221	0.221	0.222	0.205	0.237	9.57
10)		ethanol					0.202	0.162	0.167	0.148	0.164	0.129	0.162	14.95
11)	C	vinyl bromide				0.516	0.491	0.487	0.444	0.432	0.417	0.368	0.451	11.28
12)	C	acrolein		0.258	0.239	0.213	0.204	0.197	0.184	0.183	0.174	0.167	0.202	15.06
13)		acetone				0.392	0.377	0.373	0.330	0.321	0.309	0.284	0.341	11.80
14)		trichlorofluoromethane		0.619	0.581	0.597	0.580	0.578	0.536	0.525	0.491	0.443	0.550	10.26
15)		isopropyl alcohol				0.649	0.649	0.602	0.560	0.540	0.541	0.492	0.576	10.29
16)	C	acrylonitrile				0.386	0.395	0.378	0.354	0.349	0.352	0.321	0.362	7.10
17)	C	1,1-dichloroethene	1.050	0.950	0.935	0.895	0.978	1.038	0.943	0.931	0.931	0.724	0.937	9.56
18)		tertiary butyl alcohol					1.347	1.255	1.325	1.289	1.310	1.117	1.274	6.51
19)	C	methylene chloride					0.910	0.886	0.793	0.788	0.773	0.738	0.814	8.34
20)	C	3-chloropropene				1.182	1.159	1.148	1.069	1.067	1.071	1.020	1.102	5.49
21)	C	carbon disulfide				2.576	2.517	2.507	2.298	2.273	2.263	2.067	2.357	7.73
22)		Freon 113	1.758	1.553	1.472	1.522	1.487	1.467	1.378	1.359	1.296	1.130	1.442	11.60
23)		trans-1,2-dichloroethene	1.383	1.260	1.157	1.180	1.150	1.148	1.053	1.040	1.034	0.932	1.134	11.27
24)	C	1,1-dichloroethane	1.471	1.446	1.431	1.499	1.465	1.450	1.369	1.361	1.327	1.225	1.404	5.94
25)	C	MTBE	2.166	2.088	2.058	2.122	2.107	2.097	1.935	1.919	1.894	1.701	2.009	7.13
26)	C	vinyl acetate					1.532	1.531	1.402	1.442	1.518	1.507	1.489	3.63
27)	C	2-butanone				1.859	1.826	1.850	1.674	1.671	1.688	1.474	1.720	8.00
28)		cis-1,2-dichloroethene	1.125	1.111	1.016	1.079	1.049	1.034	0.979	0.968	0.937	0.847	1.014	8.35
29)		Ethyl Acetate				0.280	0.286	0.284	0.262	0.265	0.256	0.219	0.264	8.79
30)	C	chloroform	1.687	1.362	1.341	1.405	1.369	1.371	1.290	1.259	1.194	1.025	1.330	12.68
31)		Tetrahydrofuran				1.149	1.122	1.127	1.045	1.037	1.043	0.974	1.071	5.89
32)	C	1,2-dichloroethane	0.911	0.717	0.713	0.865	0.771	0.744	0.688	0.670	0.633	0.534	0.725	14.98
33)	I	1,4-difluorobenzene	----------ISTD----------											
34)	C	hexane				0.402	0.400	0.390	0.354	0.342	0.321	0.256	0.352	14.94
35)	s	1,2-dichloroethane-D4				0.281	0.281	0.283	0.283	0.279	0.271	0.240	0.274	5.69
36)	C	1,1,1-trichloroethane	0.368	0.334	0.317	0.331	0.324	0.322	0.299	0.323	0.295	0.237	0.315	10.73

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB22**	**Ical Ref**	**: ICAL20614**
Calibration dates	**: 11/29/23 21:09 11/30/23 01:51**		

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D

1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
37)	C	benzene			0.822	0.818	0.808	0.794	0.754	0.736	0.708	0.621	0.758	9.12
38)	C	carbon tetrachloride	0.331	0.298	0.299	0.306	0.305	0.298	0.282	0.273	0.253	0.204	0.285	12.40
39)		cyclohexane				0.438	0.418	0.427	0.393	0.378	0.367	0.324	0.392	10.16
40)		Dibromomethane		0.241	0.226	0.223	0.214	0.209	0.194	0.188	0.171	0.137	0.200	15.92
41)	C	1,2-dichloropropane	0.324	0.288	0.268	0.276	0.272	0.267	0.253	0.247	0.231	0.194	0.262	13.16
42)		bromodichloromethane	0.430	0.378	0.385	0.393	0.387	0.382	0.350	0.338	0.314	0.250	0.361	13.97
43)	C	1,4-dioxane			0.192	0.196	0.179	0.173	0.157	0.161	0.159	0.130	0.168	12.74
44)	C	trichloroethene	0.405	0.366	0.359	0.364	0.363	0.353	0.335	0.327	0.304	0.242	0.342	12.97
45)	C	2,2,4-trimethylpentane				1.272	1.259	1.251	1.136	1.095	1.030	0.823	1.124	14.39
46)		heptane				0.491	0.484	0.482	0.441	0.431	0.413	0.340	0.440	12.15
47)	C	cis-1,3-dichloropropene	0.441	0.396	0.375	0.399	0.398	0.389	0.371	0.368	0.345	0.286	0.377	10.82
48)	C	4-methyl-2-pentanone					0.557	0.552	0.514	0.496	0.459	0.369	0.491	14.24
49)		trans-1,3-dichloropropene	0.315	0.308	0.295	0.316	0.319	0.316	0.299	0.298	0.284	0.244	0.299	7.50
50)	C	1,1,2-trichloroethane	0.332	0.291	0.286	0.296	0.294	0.290	0.279	0.274	0.261	0.225	0.283	9.67
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene			9.439	9.259	9.127	9.069	8.649	8.641	8.312	7.428	8.740	7.41
53)	s	toluene-D8				1.029	1.026	1.056	1.068	1.100	1.166	1.310	1.108	9.15
54)		2-hexanone				5.147	5.028	5.077	4.772	4.854	4.886	4.717	4.926	3.27
55)		dibromochloromethane	4.281	4.050	3.865	4.040	4.011	3.967	3.715	3.731	3.723	3.369	3.875	6.52
56)	C	1,2-dibromoethane	4.474	4.206	4.124	4.215	4.137	4.122	3.969	4.017	4.015	3.743	4.102	4.64
57)	C	tetrachloroethene	4.146	3.679	3.748	3.765	3.778	3.684	3.577	3.580	3.473	3.072	3.650	7.43
58)		1,1,1,2-tetrachloroethane	3.488	3.710	3.124	3.297	3.232	3.167	3.012	2.970	2.789	2.369	3.116	11.89
59)	C	chlorobenzene	7.815	7.643	7.383	7.597	7.614	7.468	7.218	7.190	6.829	5.896	7.265	7.69
60)	C	ethylbenzene	1.136	1.079	1.075	1.102	1.095	1.096	1.064	1.062	1.020	0.896	1.063	6.20
61)	C	m+p-xylene	9.063	8.776	8.710	8.931	9.020	8.980	8.579	8.331	7.537	6.093	8.402	11.07
62)	C	bromoform	3.406	3.014	2.905	2.975	3.002	2.990	2.826	2.831	2.794	2.447	2.919	8.20
63)	C	styrene	6.759	6.254	6.287	7.247	7.318	7.395	7.385	7.406	7.179	6.582	6.981	6.68
64)	C	1,1,2,2-tetrachloroethane	6.371	6.188	5.955	6.144	6.176	6.141	5.973	5.862	5.427	4.591	5.883	8.86
65)	C	o-xylene	9.031	8.853	8.750	8.989	9.121	8.958	8.533	8.141	7.277	5.790	8.344	12.65
66)		1,2,3-Trichloropropane	5.091	4.577	4.514	4.680	4.720	4.676	4.594	4.624	4.492	4.193	4.616	4.85
67)	s	bromofluorobenzene				6.518	6.347	6.604	6.919	7.121	7.251	8.119	6.983	8.57
68)	C	isopropylbenzene				1.158	1.165	1.155	1.116	1.092	1.018	0.879	1.083	9.55
69)		Bromobenzene	6.571	6.116	6.255	6.488	6.499	6.463	6.266	6.196	5.837	5.134	6.182	6.94
70)		4-ethyl toluene	1.184	1.121	1.115	1.190	1.212	1.212	1.157	1.131	1.073	0.910	1.131	7.96
71)		1,3,5-trimethylbenzene	0.948	0.901	0.895	1.052	1.073	1.076	1.049	1.015	0.914	0.766	0.969	10.46
72)		tert-butylbenzene				1.105	1.114	1.108	1.050	0.966	0.822	0.631	0.971	18.86

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: AKRF, Inc.**	**Lab Number**	**: L2409206**
Project Name	**: GROW NYC**	**Project Number**	**: 210121**
Instrument ID	**: AIRLAB22**	**Ical Ref**	**: ICAL20614**
Calibration dates	**: 11/29/23 21:09 11/30/23 01:51**		

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D

1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73)		1,2,4-trimethylbenzene	0.967	0.963	0.955	1.038	1.060	1.063	1.017	0.929	0.786	0.603	0.938	15.23
74)	C	Benzyl Chloride			4.308	4.580	4.845	5.113	5.718	5.981	6.066	5.474	5.261	12.42
75)		1,3-dichlorobenzene	7.669	7.161	7.248	7.666	7.950	7.868	7.994	7.742	7.060	5.761	7.412	9.01
76)	C	1,4-dichlorobenzene	7.645	7.034	6.988	7.463	7.666	7.752	7.831	7.691	6.903	5.749	7.272	8.75
77)		sec-butylbenzene				1.440	1.479	1.489	1.442	1.381	1.243	1.017	1.356	12.63
78)		p-isopropyltoluene				1.301	1.326	1.323	1.275	1.161	0.975	0.741	1.158	19.21
79)		1,2-dichlorobenzene	6.958	6.722	6.737	7.212	7.306	7.344	7.523	7.393	6.788	5.830	6.981	7.15
80)		n-butylbenzene				1.059	1.104	1.107	1.113	1.064	0.948	0.790	1.026	11.57
81)		1,2-dibromo-3-chloropr...	2.460	2.317	2.162	2.367	2.449	2.472	2.463	2.325	2.059	1.772	2.285	9.93
82)	C	1,2,4-trichlorobenzene		4.161	4.086	4.787	5.205	5.440	6.130	6.003	5.177	4.206	5.022	15.36
83)		naphthalene		1.127	1.106	1.212	1.363	1.440	1.456	1.353	1.103	0.838	1.222	16.47
84)		1,2,3-trichlorobenzene		3.470	3.263	3.980	4.548	4.716	5.346	5.258	4.552	3.852	4.331	17.06
85)	C	hexachlorobutadiene		3.324	3.175	3.918	4.141	4.110	4.195	3.794	3.109	2.369	3.571	17.29

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files
0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_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				0.616	0.584	0.580	0.495	0.502	0.483	0.515	0.539	9.81
3)		dichlorodifluo...				1.312	1.311	1.289	1.241	1.161	1.025	0.983	1.189	11.55
4)	C	chloromethane				0.491	0.497	0.491	0.469	0.437	0.384	0.369	0.448	11.84
5)		Freon-114		1.246	1.277	1.342	1.316	1.313	1.248	1.167	1.004	0.891	1.201	12.91
6)	C	vinyl chloride	0.635	0.664	0.661	0.675	0.655	0.647	0.636	0.638	0.594	0.575	0.638	4.95
7)	C	1,3-butadiene	0.414	0.410	0.397	0.493	0.466	0.474	0.443	0.425	0.388	0.356	0.427	9.99
8)	C	bromomethane	0.588	0.627	0.555	0.570	0.550	0.555	0.538	0.532	0.492	0.461	0.547	8.50
9)	C	chloroethane			0.305	0.318	0.305	0.307	0.296	0.296	0.287	0.286	0.300	3.58
10)		ethanol					0.464	0.461	0.439	0.398	0.385	0.337	0.414	12.02
11)	C	vinyl bromide				0.493	0.473	0.484	0.450	0.453	0.460	0.469	0.469	3.41
12)	C	acrolein		0.293	0.282	0.249	0.257	0.255	0.240	0.242	0.235	0.220	0.252	9.06
13)		acetone				0.616	0.583	0.588	0.529	0.515	0.494	0.474	0.543	9.87
14)		trichlorofluor...		0.887	0.947	0.942	0.911	0.912	0.882	0.864	0.808	0.773	0.881	6.62
15)		isopropyl alcohol				0.774	0.751	0.752	0.657	0.653	0.650	0.628	0.695	8.81
16)	C	acrylonitrile				0.382	0.581	0.507	0.558	0.506	0.506	0.602	0.520	13.94

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files
0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_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...	0.927	1.030	0.971	1.010	0.979	0.978	0.958	0.988	0.964	0.992	0.980	2.91
18)		tertiary butyl...					1.137	1.142	1.085	1.124	1.208	1.268	1.160	5.70
19)	C	methylene chlo...					0.860	0.849	0.791	0.778	0.730	0.697	0.784	8.16
20)	C	3-chloropropene					0.842	0.840	0.817	0.821	0.838	0.874	0.839	2.40
21)	C	carbon disulfide				1.894	1.866	1.893	1.810	1.810	1.836	1.784	1.842	2.35
22)		Freon 113	1.145	1.162	1.156	1.203	1.160	1.154	1.109	1.099	1.069	1.122	1.138	3.40
23)		trans-1,2-dich...	0.890	0.878	0.882	0.996	0.965	0.980	0.929	0.933	0.964	1.011	0.943	5.10
24)	C	1,1-dichloroet...	1.333	1.175	1.209	1.246	1.227	1.219	1.186	1.180	1.160	1.228	1.216	4.05
25)	C	MTBE	1.528	1.521	1.545	1.560	1.534	1.546	1.465	1.455	1.461	1.460	1.507	2.79
26)	C	vinyl acetate					1.182	1.222	1.114	1.182	1.252	1.296	1.208	5.25
27)	C	2-butanone				1.369	1.327	1.336	1.263	1.272	1.277	1.286	1.304	3.06
28)		cis-1,2-dichlo...	1.039	0.918	0.903	0.936	0.923	0.926	0.919	0.923	0.914	0.955	0.936	4.14
29)		Ethyl Acetate					0.242	0.236	0.234	0.239	0.250	0.267	0.245	5.07
30)	C	chloroform	1.366	1.302	1.368	1.364	1.324	1.318	1.271	1.254	1.184	1.108	1.286	6.64
31)		Tetrahydrofuran				0.800	0.835	0.818	0.786	0.790	0.807	0.834	0.810	2.43
32)	C	1,2-dichloroet...	0.646	0.758	0.719	0.877	0.788	0.759	0.723	0.713	0.680	0.670	0.733	9.11

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files
0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_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				0.479	0.460	0.465	0.435	0.435	0.435	0.393	0.443	6.36
35)	s	1,2-dichloroet...				0.362	0.371	0.363	0.369	0.368	0.359	0.342	0.362	2.72
36)	C	1,1,1-trichlor...	0.337	0.335	0.330	0.340	0.333	0.331	0.327	0.331	0.316	0.298	0.328	3.76
37)	C	benzene			0.881	0.891	0.858	0.854	0.837	0.832	0.786	0.721	0.832	6.64
38)	C	carbon tetrach...	0.299	0.288	0.312	0.322	0.317	0.317	0.325	0.332	0.311	0.279	0.310	5.37
39)		cyclohexane				0.494	0.500	0.493	0.471	0.472	0.478	0.447	0.479	3.77
40)		Dibromomethane		0.286	0.249	0.261	0.250	0.248	0.236	0.237	0.239	0.235	0.249	6.60
41)	C	1,2-dichloropr...	0.363	0.292	0.301	0.310	0.292	0.294	0.292	0.294	0.286	0.285	0.301	7.59
42)		bromodichlorom...	0.374	0.411	0.395	0.412	0.414	0.428	0.420	0.425	0.421	0.374	0.407	4.85
43)	C	1,4-dioxane			0.180	0.188	0.183	0.186	0.182	0.187	0.195	0.189	0.186	2.62
44)	C	trichloroethene	0.356	0.377	0.301	0.334	0.329	0.333	0.330	0.332	0.324	0.320	0.334	6.13
45)	C	2,2,4-trimethy...		1.507	1.477	1.555	1.559	1.556	1.463	1.431	1.425	1.310	1.476	5.51
46)		heptane				0.510	0.507	0.507	0.479	0.477	0.466	0.427	0.482	6.20
47)	C	cis-1,3-dichlo...	0.355	0.306	0.330	0.356	0.362	0.368	0.393	0.399	0.382	0.358	0.361	7.71
48)	C	4-methyl-2-pen...					0.563	0.555	0.547	0.545	0.536	0.494	0.540	4.52

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files
0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_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...	0.240	0.233	0.246	0.266	0.283	0.287	0.313	0.323	0.310	0.289	0.279	11.42
50)	C	1,1,2-trichlor...	0.319	0.281	0.293	0.306	0.296	0.297	0.292	0.295	0.286	0.292	0.296	3.50
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene				5.756	5.957	5.864	5.798	5.770	5.720	5.674	5.970	5.814	1.85
53)	s	toluene-D8					7.100	7.224	7.047	7.090	7.120	7.304	8.420	7.329	6.67
54)		2-hexanone					2.834	2.898	2.987	3.046	3.034	3.049	3.148	2.999	3.49
55)		dibromochlorom...	1.995	2.061	1.955	2.064	2.067	2.122	2.213	2.283	2.434	2.572	2.177	9.17
56)	C	1,2-dibromoethane	2.390	2.426	2.427	2.530	2.578	2.604	2.677	2.655	2.585	2.730	2.560	4.50
57)	C	tetrachloroethene	2.332	2.268	2.182	2.335	2.253	2.224	2.226	2.173	2.172	2.276	2.244	2.69
58)		1,1,1,2-tetrac...	2.105	1.722	1.705	1.797	1.785	1.797	1.820	1.837	1.907	1.982	1.846	6.61
59)	C	chlorobenzene	4.691	4.655	4.685	4.783	4.667	4.620	4.648	4.557	4.424	4.458	4.619	2.38
60)	C	ethylbenzene	7.155	7.141	7.147	7.242	7.322	7.293	7.480	7.417	7.344	7.716	7.326	2.44
61)	C	m+p-xylene	5.646	5.500	5.624	5.816	5.893	5.872	6.050	5.979	5.846	5.887	5.811	2.93
62)	C	bromoform	1.456	1.535	1.515	1.529	1.550	1.606	1.808	1.919	2.107	2.274	1.730	16.43
63)	C	styrene	3.984	4.005	3.872	4.513	4.545	4.634	4.803	4.787	4.718	4.978	4.484	8.72
64)	C	1,1,2,2-tetrac...	4.496	4.427	4.440	4.515	4.530	4.520	4.735	4.709	4.487	4.161	4.502	3.50

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files
0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_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	6.110	5.643	5.655	6.070	5.938	5.988	6.112	6.058	5.879	5.635	5.909	3.33
66)		1,2,3-Trichlor...	3.192	3.099	3.340	3.327	3.359	3.330	3.253	3.176	3.146	3.118	3.234	3.08
67)	s	bromofluoroben...				4.549	4.739	4.703	4.557	4.687	4.969	5.671	4.839	8.11
68)	C	isopropylbenzene				7.594	7.589	7.550	7.413	7.254	7.327	7.410	7.448	1.79
69)		Bromobenzene	4.132	4.280	4.273	4.448	4.435	4.453	4.315	4.243	4.178	4.096	4.285	3.02
70)		4-ethyl toluene	6.918	7.056	7.308	7.658	7.897	7.921	7.971	7.822	7.914	8.010	7.648	5.29
71)		1,3,5-trimethy...	5.725	5.861	5.918	6.685	7.614	6.834	7.964	6.956	6.639	6.735	6.693	10.90
72)		tert-butylbenzene				7.237	7.277	7.330	7.438	7.333	7.082	6.480	7.168	4.50
73)		1,2,4-trimethy...	6.116	5.873	6.261	6.690	6.811	6.863	7.223	7.066	6.665	6.222	6.579	6.70
74)	C	Benzyl Chloride			2.391	2.628	2.775	3.147	3.859	4.289	4.714	5.094	3.612	28.29
75)		1,3-dichlorobe...	4.364	4.170	4.228	4.444	4.461	4.462	4.915	4.892	4.732	4.906	4.557	6.20
76)	C	1,4-dichlorobe...	4.137	4.065	4.053	4.222	4.448	4.473	4.871	4.930	4.760	4.815	4.477	7.75
77)		sec-butylbenzene				9.363	9.686	9.600	9.776	9.607	9.572	9.491	9.585	1.39
78)		p-isopropyltol...				8.209	8.760	8.721	8.526	7.532	8.101	7.146	8.142	7.50
79)		1,2-dichlorobe...	4.068	3.938	3.816	4.023	4.219	4.252	4.599	4.695	4.512	4.630	4.275	7.39
80)		n-butylbenzene				6.878	7.319	7.482	7.958	8.084	8.107	8.012	7.692	6.16

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Method File : TSIM15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023
Response Via : Initial Calibration

Calibration Files
0.02=r1540779_Ev2.D 0.05=r1540780_Ev2.D 0.1 =r1540781_Ev2.D 0.2 =r1540782_Ev2.D 0.5 =r1540783_Ev2.D
1.0 =r1540784_Ev2.D 5.0 =r1540785_Ev2.D 10.0=r1540786_Ev2.D 20.0=r1540787_Ev2.D 50.0=r1540788_Ev2.D

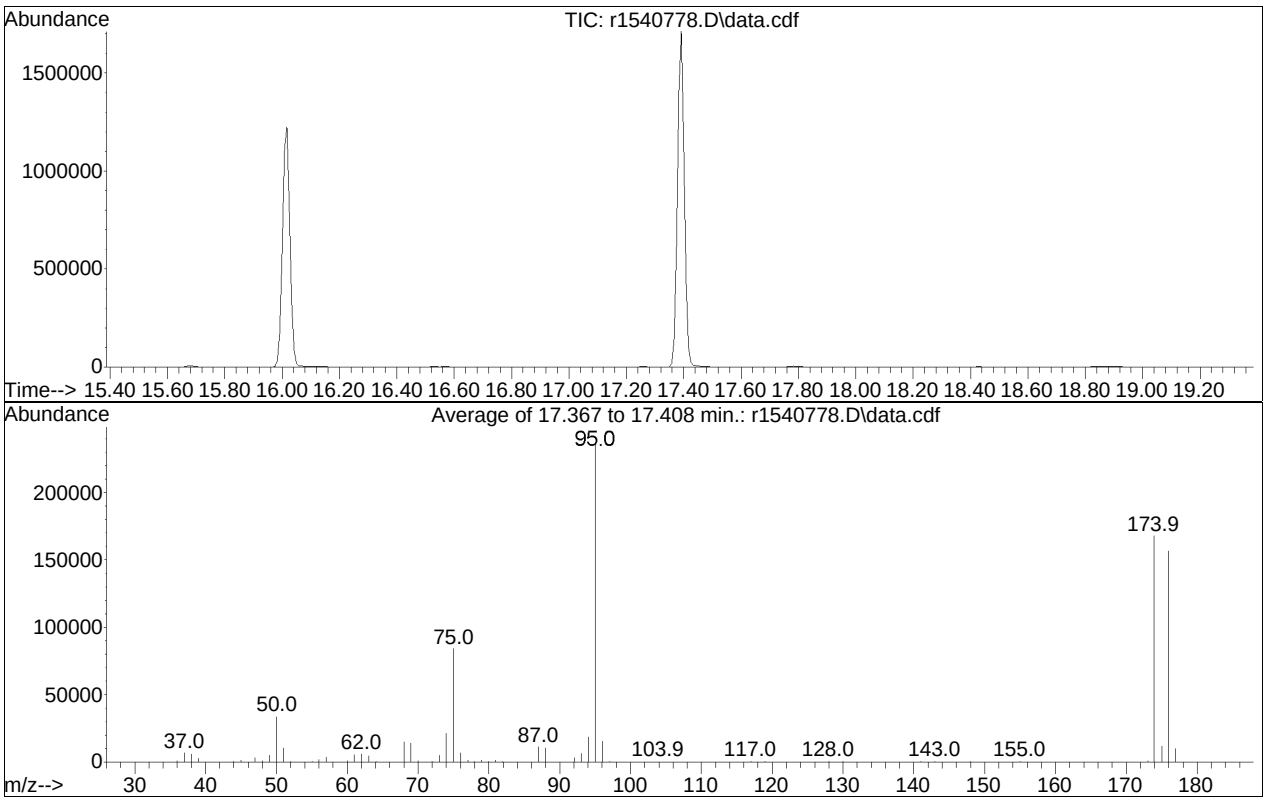
		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
81)		1,2-dibromo-3-...	1.145	1.173	1.178	1.218	1.370	1.428	1.621	1.641	1.616	1.689	1.408	15.66
82)	C	1,2,4-trichlor...		2.049	2.098	2.099	2.643	2.883	3.464	3.938	3.700	4.018	2.988	27.22
83)		naphthalene		0.633	0.614	0.591	0.787	0.845	0.910	1.028	0.988	1.037	0.826	21.75
84)		1,2,3-trichlor...		2.121	1.916	1.787	2.395	2.642	2.870	3.311	3.168	3.513	2.636	23.71
85)	C	hexachlorobuta...		2.250	2.118	2.074	2.531	2.685	2.931	3.200	2.896	2.964	2.627	15.49

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540778.D
Acq On : 20 Nov 2023 7:17 PM
Operator : AIRLAB15:RAY
Sample : WG1855600-1,3,250,250
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023



Spectrum Information: Average of 17.367 to 17.408 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.2	33577	PASS
75	95	30	66	35.5	84043	PASS
95	95	100	100	100.0	237026	PASS
96	95	5	9	6.5	15289	PASS
173	174	0.00	2	0.6	938	PASS
174	95	50	120	71.0	168281	PASS
175	174	4	9	7.1	11930	PASS
176	174	93	101	93.0	156550	PASS
177	176	5	9	6.5	10102	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540779_Ev2.D
Acq On : 20 Nov 2023 7:52 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:39 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.067	49	192097	10.000	ppbV		0.00
Standard Area = 207652			Recovery = 92.51%				
33) 1,4-difluorobenzene	11.287	114	588459	10.000	ppbV		0.00
Standard Area = 601845			Recovery = 97.78%				
51) chlorobenzene-D5	16.008	54	94757	10.000	ppbV		0.00
Standard Area = 99919			Recovery = 94.83%				
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	14.142	98	13483	0.178	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.78%#				
67) bromofluorobenzene	17.383	95	5386	0.109	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.09%#				
Target Compounds							Qvalue
2) propylene	3.922	41	454M6	0.036	ppbV		
3) dichlorodifluoromethane	3.994	85	461	0.024	ppbV		92
4) chloromethane	4.156	50	207	0.017	ppbV		89
5) Freon-114	4.264	85	485	0.020	ppbV	#	84
6) vinyl chloride	4.378	62	244	0.020	ppbV	#	33
7) 1,3-butadiene	4.528	54	159	0.017	ppbV	#	42
8) bromomethane	4.810	94	226	0.024	ppbV		90
9) chloroethane	4.996	64	161	0.027	ppbV	#	78
10) ethanol	5.152	31	841	0.087	ppbV		95
11) vinyl bromide	5.383	106	193M4	0.021	ppbV		
12) acrolein	5.517	56	113M2	0.023	ppbV		
13) acetone	5.673	43	1527	0.098	ppbV	#	95
14) trichlorofluoromethane	5.837	101	382M4	0.025	ppbV		
15) isopropyl alcohol	5.963	45	1121	0.051	ppbV	#	85
16) acrylonitrile	6.180	53	211M4	0.021	ppbV		
17) 1,1-dichloroethene	6.528	61	356	0.019	ppbV	#	89
18) tertiary butyl alcohol	6.642	59	607	0.027	ppbV	#	55
19) methylene chloride	6.672	49	755	0.048	ppbV		88
20) 3-chloropropene	6.804	41	327	0.015	ppbV	#	72
21) carbon disulfide	6.984	76	703	0.022	ppbV	#	1
22) Freon 113	6.972	101	440	0.020	ppbV		95
23) trans-1,2-dichloroethene	7.717	61	342	0.019	ppbV	#	91
24) 1,1-dichloroethane	7.942	63	512	0.021	ppbV	#	86

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540779_Ev2.D
Acq On : 20 Nov 2023 7:52 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:39 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.050	73	587	0.019	ppbV	#	81
26) vinyl acetate	8.142	43	552	0.018	ppbV	#	69
27) 2-butanone	8.425	43	544	0.016	ppbV	#	82
28) cis-1,2-dichloroethene	8.883	61	399	0.023	ppbV	#	88
29) Ethyl Acetate	9.192	61	94M4	0.020	ppbV		
30) chloroform	9.225	83	525	0.025	ppbV	#	81
31) Tetrahydrofuran	9.708	42	291	0.014	ppbV		93
32) 1,2-dichloroethane	10.058	62	248	0.018	ppbV	#	53
34) hexane	9.133	57	604	0.022	ppbV	#	30
36) 1,1,1-trichloroethane	10.350	97	397	0.019	ppbV	#	84
37) benzene	10.867	78	1151	0.022	ppbV		97
38) carbon tetrachloride	11.047	117	352	0.021	ppbV	#	93
39) cyclohexane	11.180	56	594	0.020	ppbV		86
40) Dibromomethane	11.780	93	450	0.028	ppbV	#	85
41) 1,2-dichloropropane	11.813	63	427	0.019	ppbV	#	75
42) bromodichloromethane	12.047	83	440	0.020	ppbV	#	88
43) 1,4-dioxane	12.133	88	218	0.019	ppbV		91
44) trichloroethene	12.093	130	419M4	0.020	ppbV		
45) 2,2,4-trimethylpentane	12.140	57	1734	0.019	ppbV	#	90
46) heptane	12.460	43	573	0.014	ppbV	#	87
47) cis-1,3-dichloropropene	13.117	75	418	0.018	ppbV	#	65
48) 4-methyl-2-pentanone	13.192	43	599	0.013	ppbV	#	89
49) trans-1,3-dichloropropene	13.742	75	282	0.015	ppbV	#	49
50) 1,1,2-trichloroethane	13.933	97	375	0.019	ppbV		95
52) toluene	14.250	91	1129	0.019	ppbV		97
54) 2-hexanone	14.567		0	N.D.			
55) dibromochloromethane	14.692	129	378	0.021	ppbV	#	90
56) 1,2-dibromoethane	14.950	107	453	0.018	ppbV		91
57) tetrachloroethene	15.400	166	442	0.021	ppbV		96
58) 1,1,1,2-tetrachloroethane	16.033	131	399	0.022	ppbV	#	94
59) chlorobenzene	16.050	112	889	0.020	ppbV		92
60) ethylbenzene	16.400	91	1356	0.018	ppbV		96
61) m+p-xylene	16.558	91	2140	0.035	ppbV		98
62) bromoform	16.633	173	276	0.020	ppbV		91
63) styrene	16.892	104	755	0.017	ppbV		92
64) 1,1,2,2-tetrachloroethane	16.983	83	852	0.020	ppbV		91
65) o-xylene	16.983	91	1158	0.019	ppbV		96
66) 1,2,3-Trichloropropane	17.100	75	605	0.019	ppbV	#	90
68) isopropylbenzene	17.500	105	1347	0.018	ppbV		98
69) Bromobenzene	17.575	77	783	0.018	ppbV		90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540779_Ev2.D
Acq On : 20 Nov 2023 7:52 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:39 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

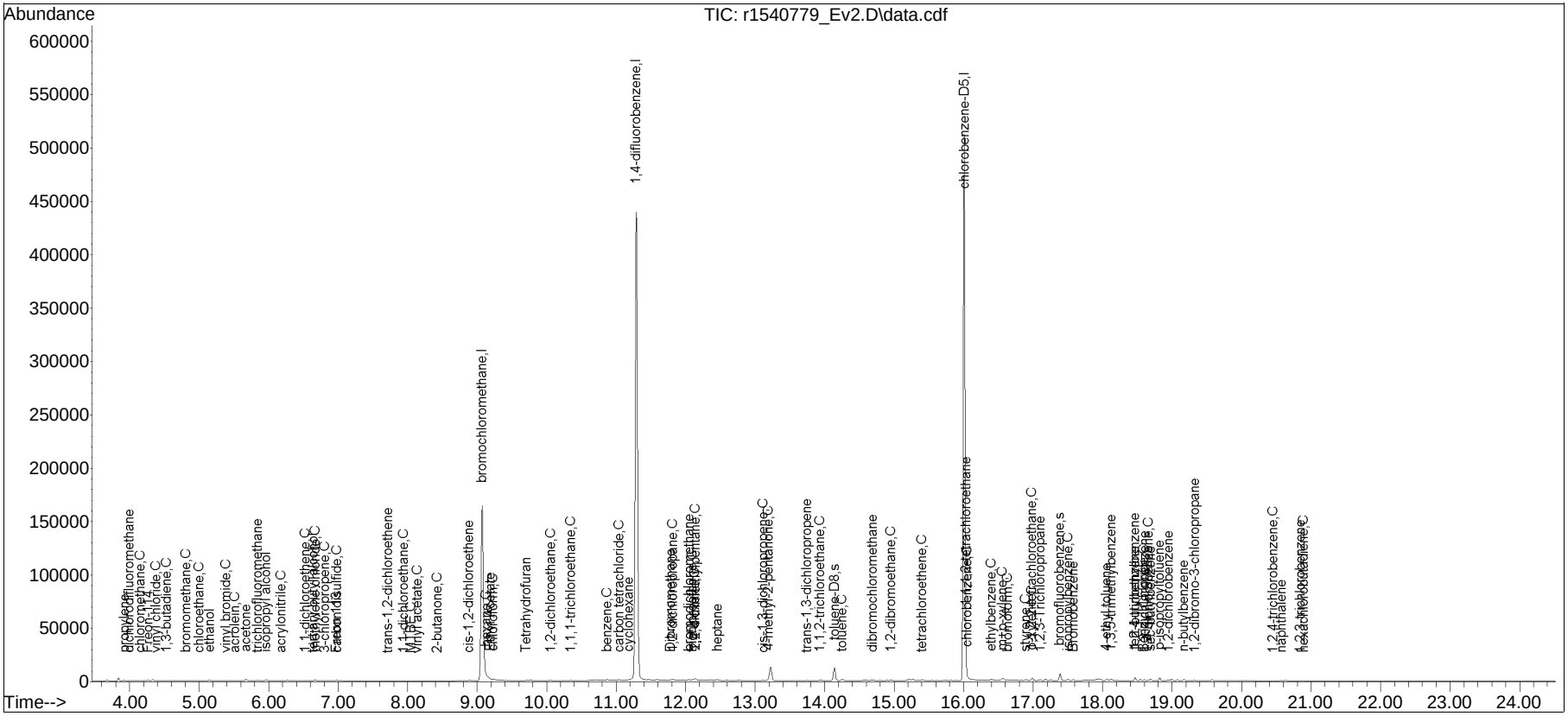
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	1311	0.017	ppbV #	96
71) 1,3,5-trimethylbenzene	18.125	105	1085	0.016	ppbV #	93
72) tert-butylbenzene	18.467	119	1288	0.019	ppbV	93
73) 1,2,4-trimethylbenzene	18.467	105	1159	0.018	ppbV #	89
74) Benzyl Chloride	18.592	91	439	0.011	ppbV #	85
75) 1,3-dichlorobenzene	18.600	146	827	0.020	ppbV #	90
76) 1,4-dichlorobenzene	18.658	146	784	0.019	ppbV #	87
77) sec-butylbenzene	18.692	105	1682	0.018	ppbV	93
78) p-isopropyltoluene	18.817	119	1463	0.020	ppbV	98
79) 1,2-dichlorobenzene	18.950	146	771	0.019	ppbV #	93
80) n-butylbenzene	19.167	91	1158	0.015	ppbV	91
81) 1,2-dibromo-3-chloropr...	19.325	75	217	0.017	ppbV #	85
82) 1,2,4-trichlorobenzene	20.450	180	390	0.015	ppbV #	79
83) naphthalene	20.575	128	1270	0.013	ppbV #	82
84) 1,2,3-trichlorobenzene	20.842	180	483	0.021	ppbV #	80
85) hexachlorobutadiene	20.892	225	412	0.018	ppbV #	87

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540779_Ev2.D
Acq On : 20 Nov 2023 7:52 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:39 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

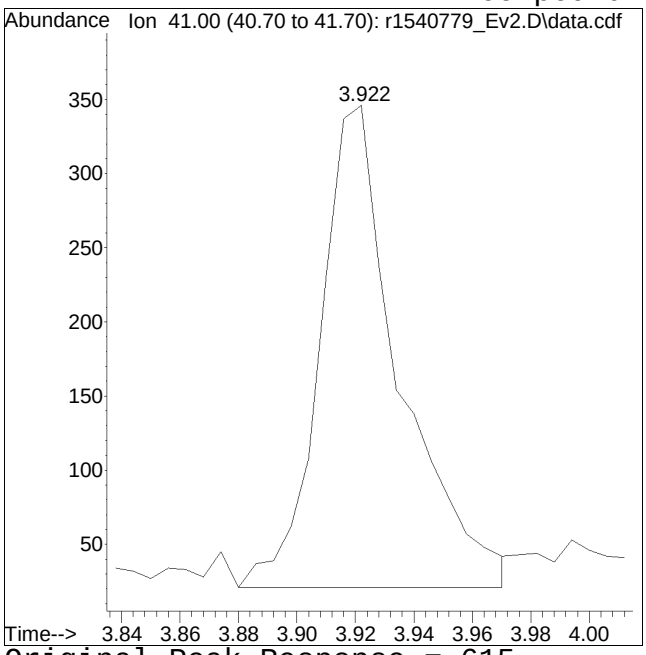


Manual Integration Report

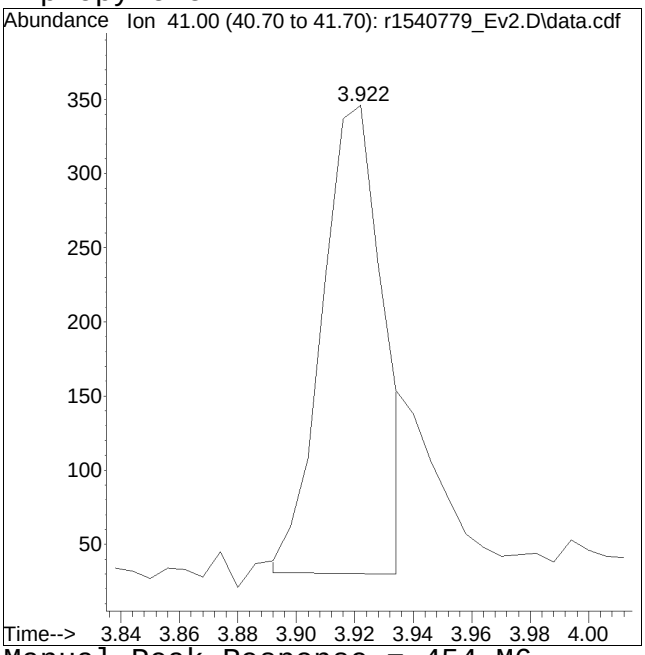
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540779_Ev2.D
Date Inj'd : 11/20/2020 0:7: 2
Sample : ITO15-SIMSTD0.02

Method : TSIM15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 10:12 am

Compound #2: propylene



Original Peak Response = 615



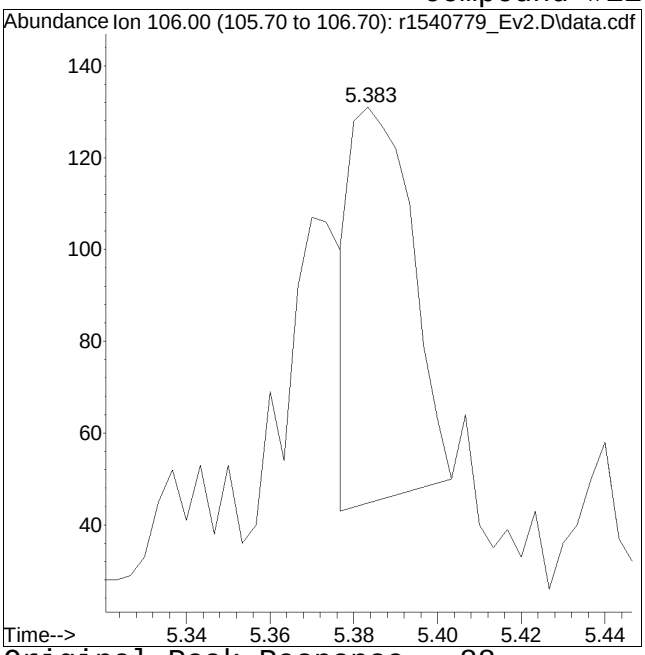
Manual Peak Response = 454 M6

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

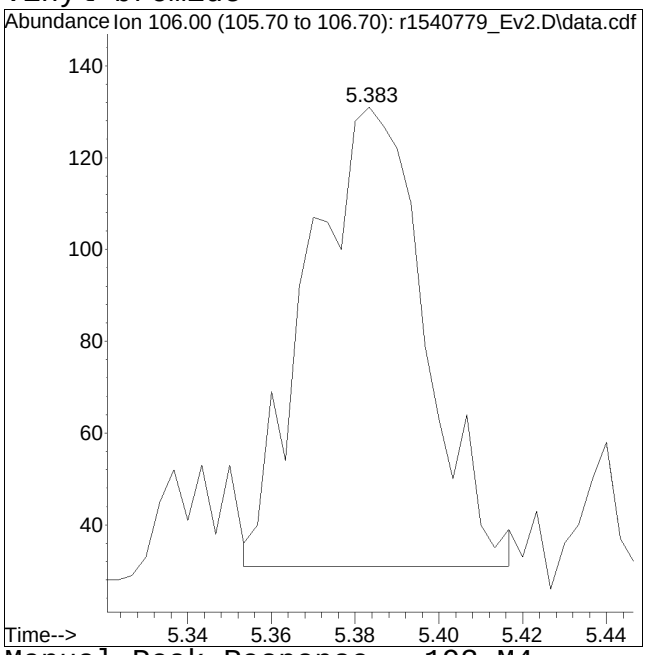
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #11: vinyl bromide



Original Peak Response = 88



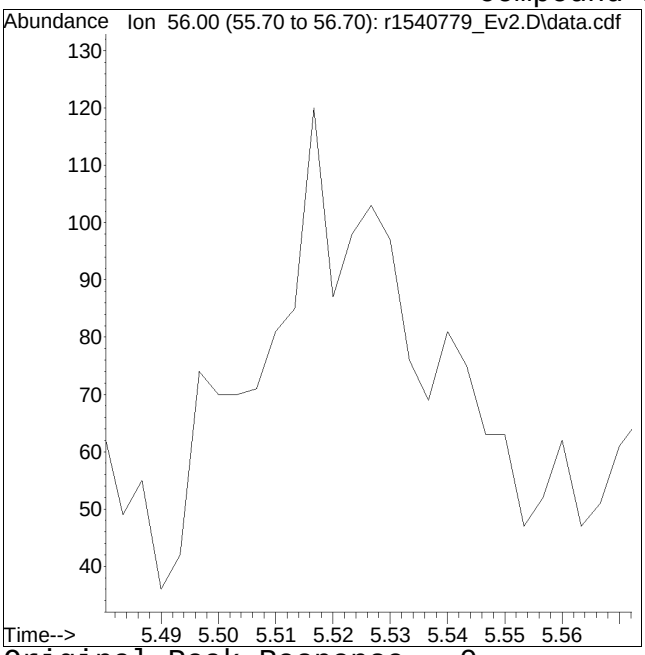
Manual Peak Response = 193 M4

M4 = Poor automated baseline construction.

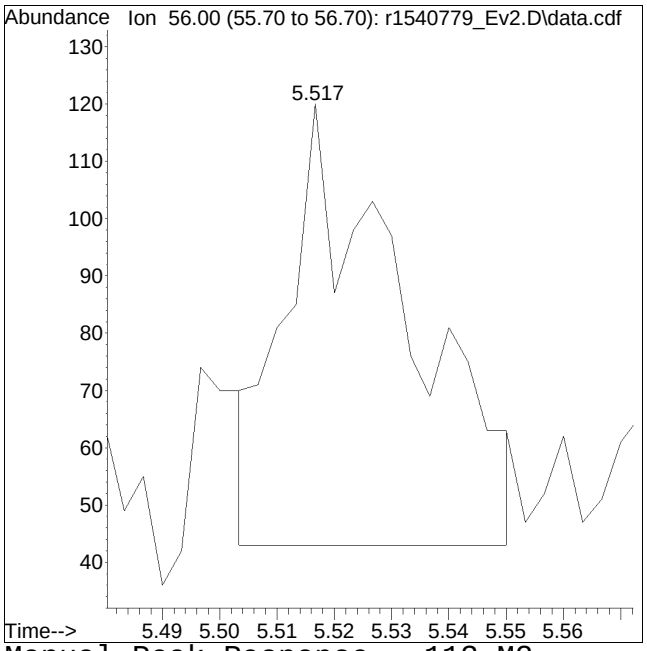
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #12: acrolein



Original Peak Response = 0



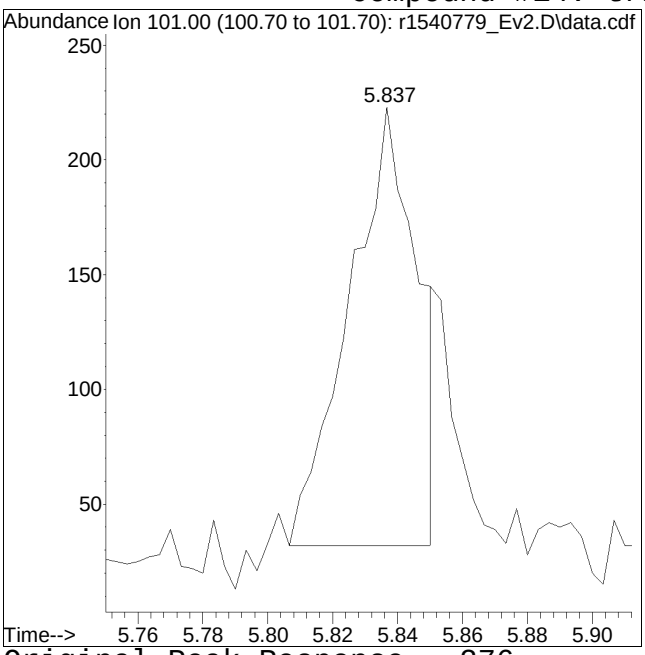
Manual Peak Response = 113 M2

M2 = Peak not found by automatic integration algorithm.

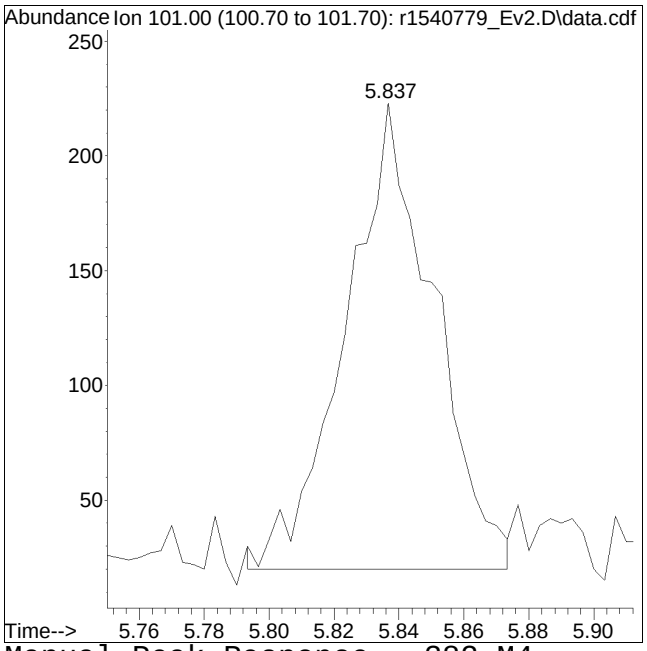
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #14: trichlorofluoromethane



Original Peak Response = 276



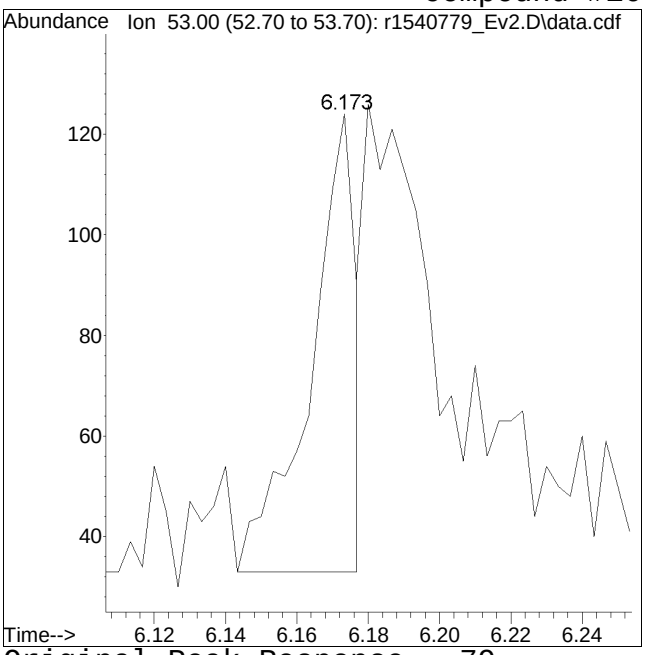
Manual Peak Response = 382 M4

M4 = Poor automated baseline construction.

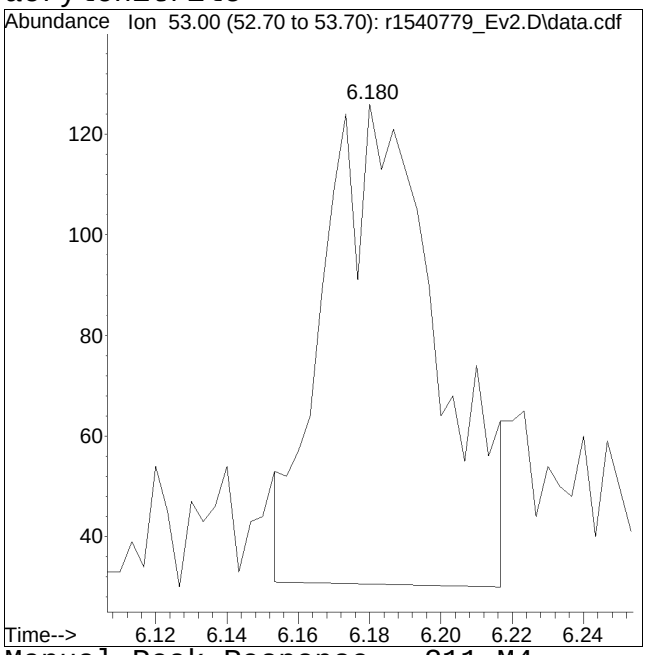
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #16: acrylonitrile



Original Peak Response = 79



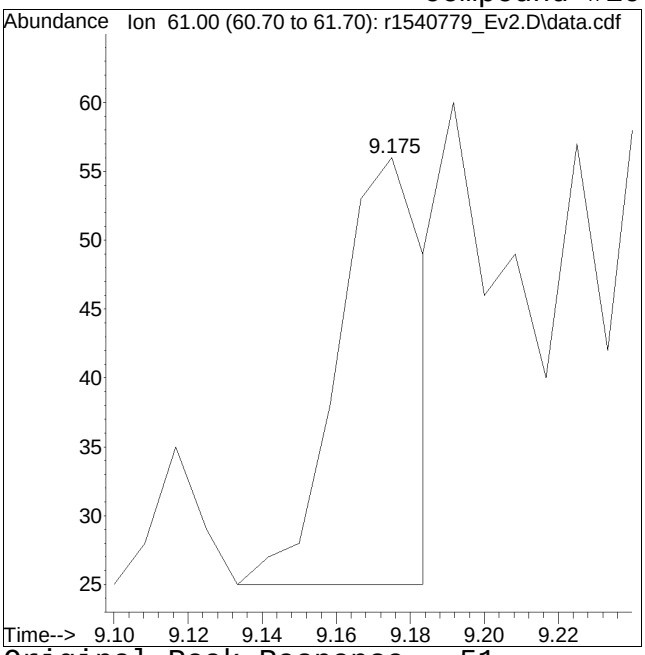
Manual Peak Response = 211 M4

M4 = Poor automated baseline construction.

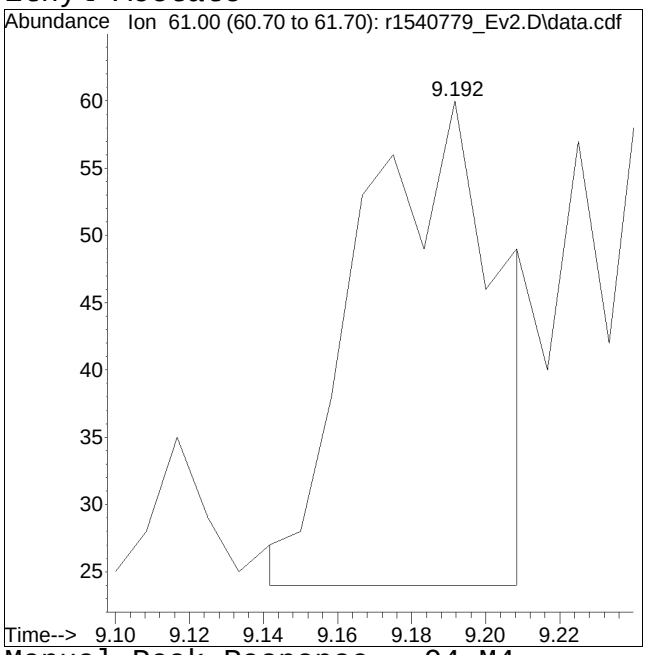
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #29: Ethyl Acetate



Original Peak Response = 51



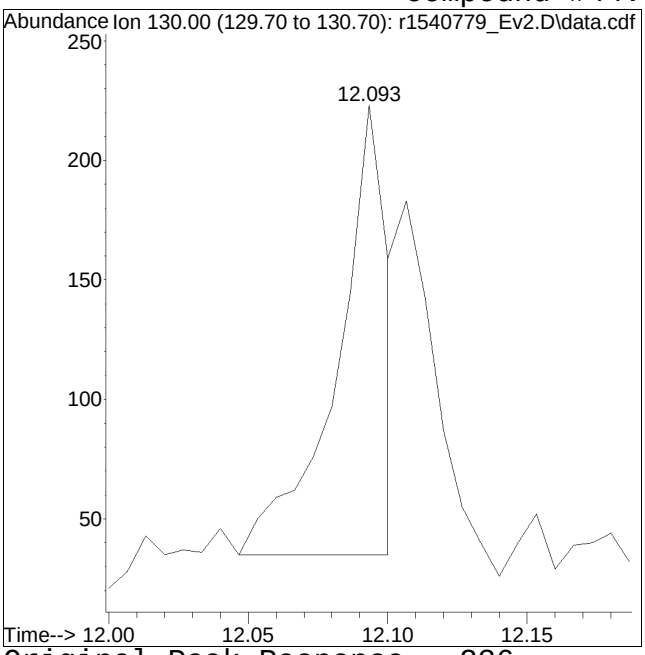
Manual Peak Response = 94 M4

M4 = Poor automated baseline construction.

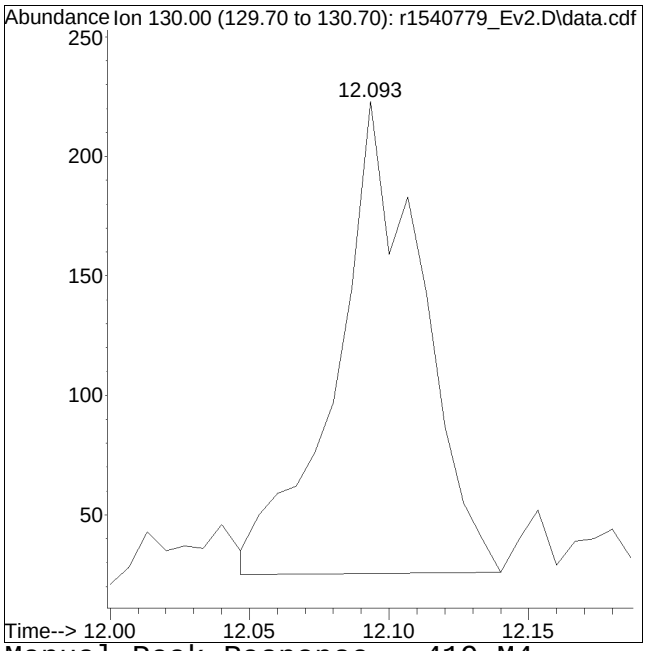
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540779_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:7: 2 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/21/2023 10:12 am

Compound #44: trichloroethene



Original Peak Response = 236



Manual Peak Response = 419 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540780_Ev2.D
Acq On : 20 Nov 2023 8:28 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:53 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.075	49	196886	10.000	ppbV	0.00
Standard Area = 207652			Recovery = 94.82%			
33) 1,4-difluorobenzene	11.293	114	587812	10.000	ppbV	0.00
Standard Area = 601845			Recovery = 97.67%			
51) chlorobenzene-D5	16.008	54	96540	10.000	ppbV	0.00
Standard Area = 99919			Recovery = 96.62%			
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	14.142	98	13262	0.172	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.72%#			
67) bromofluorobenzene	17.383	95	4407	0.087	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.87%#			
Target Compounds						Qvalue
2) propylene	3.922	41	819M6	0.063	ppbV	
3) dichlorodifluoromethane	3.994	85	1257	0.064	ppbV	96
4) chloromethane	4.156	50	478	0.038	ppbV	89
5) Freon-114	4.264	85	1227	0.051	ppbV	99
6) vinyl chloride	4.384	62	654	0.054	ppbV #	73
7) 1,3-butadiene	4.528	54	404	0.042	ppbV #	71
8) bromomethane	4.816	94	617	0.064	ppbV	92
9) chloroethane	5.002	64	271	0.045	ppbV	95
10) ethanol	5.158	31	2269	0.229	ppbV	94
11) vinyl bromide	5.383	106	438	0.046	ppbV	86
12) acrolein	5.537	56	288M4	0.056	ppbV	
13) acetone	5.680	43	3664	0.229	ppbV #	96
14) trichlorofluoromethane	5.843	101	873	0.057	ppbV	95
15) isopropyl alcohol	5.970	45	2868	0.126	ppbV	98
16) acrylonitrile	6.180	53	451	0.043	ppbV #	82
17) 1,1-dichloroethene	6.534	61	1014	0.053	ppbV	91
18) tertiary butyl alcohol	6.648	59	1552	0.067	ppbV #	89
19) methylene chloride	6.672	49	1406	0.088	ppbV	99
20) 3-chloropropene	6.804	41	766	0.035	ppbV #	82
21) carbon disulfide	6.984	76	1822	0.056	ppbV #	18
22) Freon 113	6.972	101	1144	0.051	ppbV	96
23) trans-1,2-dichloroethene	7.725	61	864	0.046	ppbV	96
24) 1,1-dichloroethane	7.942	63	1157	0.046	ppbV	93

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540780_Ev2.D
Acq On : 20 Nov 2023 8:28 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:53 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.050	73	1497	0.048	ppbV	#	87
26) vinyl acetate	8.142	43	1172	0.038	ppbV	#	89
27) 2-butanone	8.425	43	1465	0.043	ppbV	#	92
28) cis-1,2-dichloroethene	8.892	61	904	0.050	ppbV		86
29) Ethyl Acetate	9.192	61	226	0.046	ppbV	#	7
30) chloroform	9.225	83	1282	0.060	ppbV	#	93
31) Tetrahydrofuran	9.708	42	841	0.039	ppbV		90
32) 1,2-dichloroethane	10.067	62	746	0.051	ppbV	#	92
34) hexane	9.142	57	1308	0.047	ppbV	#	40
36) 1,1,1-trichloroethane	10.350	97	985	0.047	ppbV	#	92
37) benzene	10.873	78	2569	0.049	ppbV		92
38) carbon tetrachloride	11.040	117	846	0.050	ppbV	#	92
39) cyclohexane	11.187	56	1411	0.047	ppbV		99
40) Dibromomethane	11.787	93	842	0.053	ppbV	#	93
41) 1,2-dichloropropane	11.827	63	858	0.038	ppbV	#	91
42) bromodichloromethane	12.047	83	1207	0.056	ppbV		89
43) 1,4-dioxane	12.127	88	608M3	0.054	ppbV		
44) trichloroethene	12.100	130	1108	0.054	ppbV		92
45) 2,2,4-trimethylpentane	12.147	57	4430	0.047	ppbV	#	99
46) heptane	12.453	43	1393	0.034	ppbV		98
47) cis-1,3-dichloropropene	13.117	75	900	0.038	ppbV	#	79
48) 4-methyl-2-pentanone	13.183	43	1403	0.030	ppbV	#	97
49) trans-1,3-dichloropropene	13.742	75	685	0.036	ppbV	#	79
50) 1,1,2-trichloroethane	13.933	97	827	0.042	ppbV		92
52) toluene	14.250	91	2769	0.047	ppbV		96
54) 2-hexanone	14.558	43	1085	0.025	ppbV	#	95
55) dibromochloromethane	14.692	129	995	0.054	ppbV		96
56) 1,2-dibromoethane	14.942	107	1171	0.045	ppbV		96
57) tetrachloroethene	15.408	166	1095	0.051	ppbV		96
58) 1,1,1,2-tetrachloroethane	16.033	131	831	0.046	ppbV		93
59) chlorobenzene	16.050	112	2247	0.051	ppbV		95
60) ethylbenzene	16.400	91	3447	0.044	ppbV		98
61) m+p-xylene	16.567	91	5310	0.086	ppbV		98
62) bromoform	16.633	173	741	0.054	ppbV		97
63) styrene	16.892	104	1933	0.043	ppbV		97
64) 1,1,2,2-tetrachloroethane	16.983	83	2137	0.048	ppbV		92
65) o-xylene	16.983	91	2724	0.044	ppbV		98
66) 1,2,3-Trichloropropane	17.100	75	1496	0.045	ppbV		95
68) isopropylbenzene	17.500	105	3413	0.045	ppbV		98
69) Bromobenzene	17.575	77	2066	0.047	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540780_Ev2.D
Acq On : 20 Nov 2023 8:28 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:12:53 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

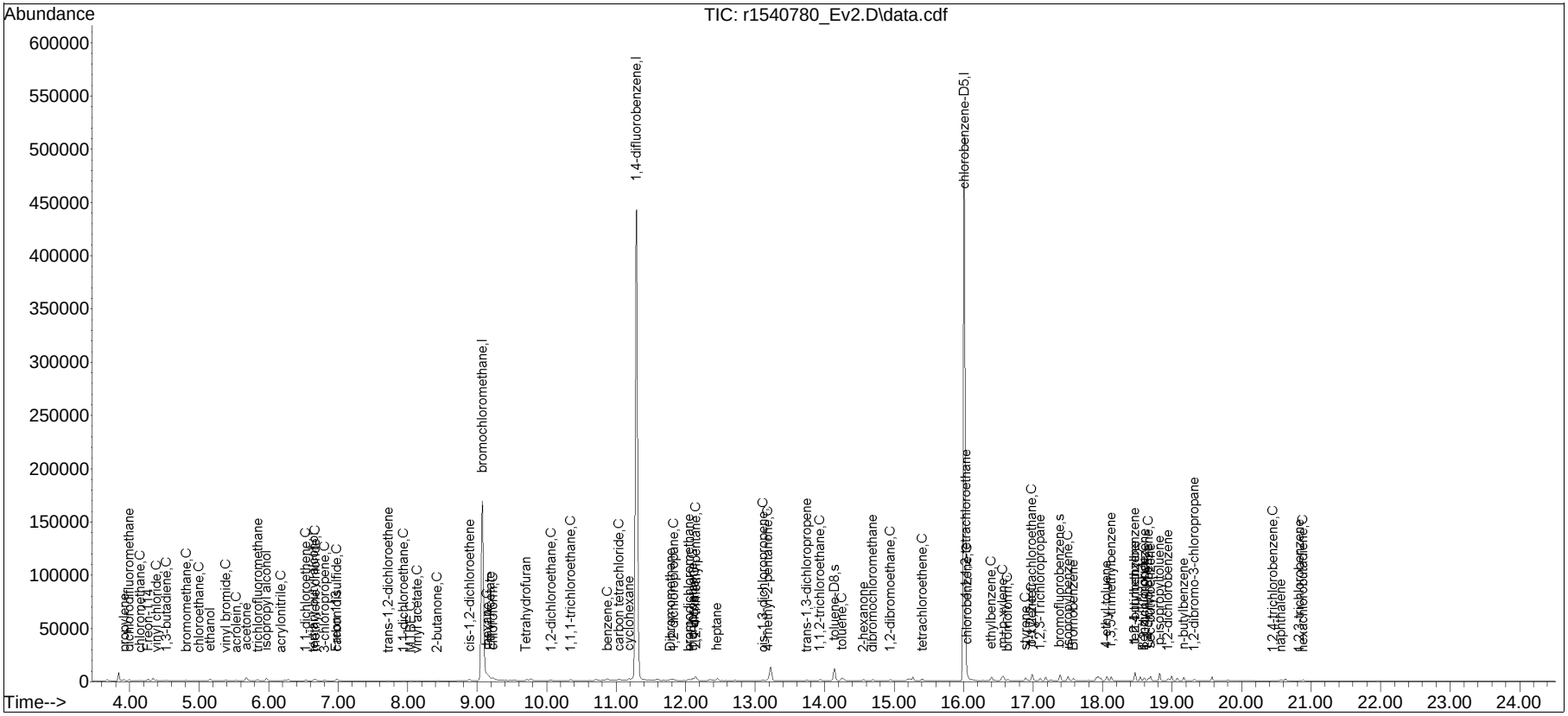
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	3406	0.044	ppbV #	98
71) 1,3,5-trimethylbenzene	18.125	105	2829	0.040	ppbV	99
72) tert-butylbenzene	18.467	119	3287	0.048	ppbV	98
73) 1,2,4-trimethylbenzene	18.467	105	2835	0.043	ppbV #	89
74) Benzyl Chloride	18.592	91	1144	0.029	ppbV	98
75) 1,3-dichlorobenzene	18.600	146	2013	0.047	ppbV	92
76) 1,4-dichlorobenzene	18.658	146	1962	0.046	ppbV	94
77) sec-butylbenzene	18.692	105	4137	0.043	ppbV	99
78) p-isopropyltoluene	18.817	119	3448	0.045	ppbV	100
79) 1,2-dichlorobenzene	18.942	146	1901	0.046	ppbV	93
80) n-butylbenzene	19.167	91	3065	0.038	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.317	75	566	0.042	ppbV	87
82) 1,2,4-trichlorobenzene	20.450	180	989	0.037	ppbV	93
83) naphthalene	20.567	128	3057	0.031	ppbV #	94
84) 1,2,3-trichlorobenzene	20.833	180	1024	0.044	ppbV #	87
85) hexachlorobutadiene	20.883	225	1086	0.048	ppbV	92

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540780_Ev2.D
Acq On : 20 Nov 2023 8:28 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

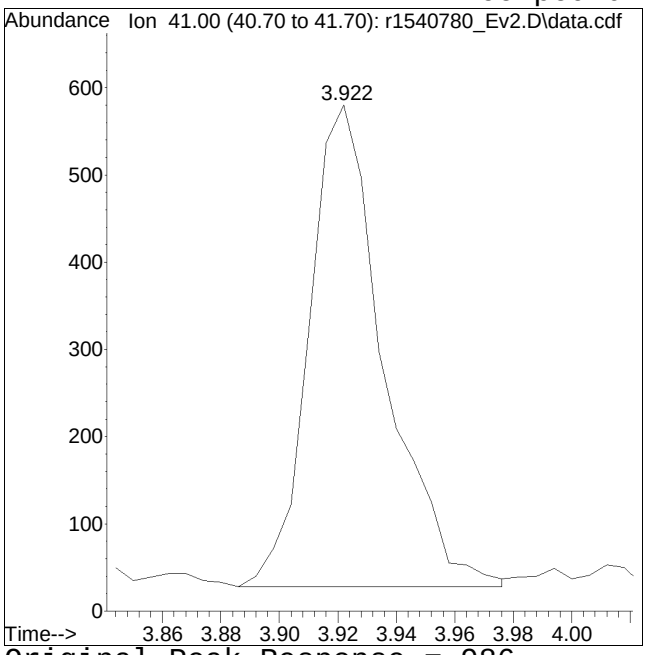
Quant Time: Nov 21 10:12:53 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration



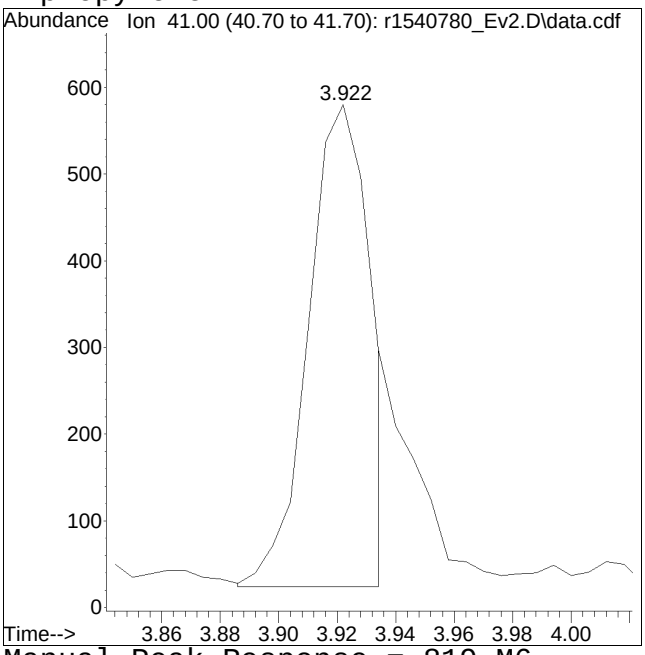
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540780_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/21/2023 10:12 am

Compound #2: propylene



Original Peak Response = 986



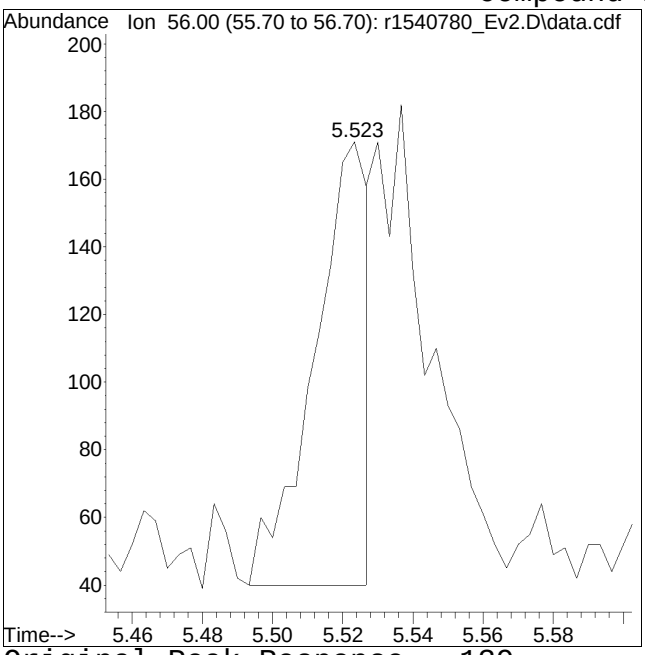
Manual Peak Response = 819 M6

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

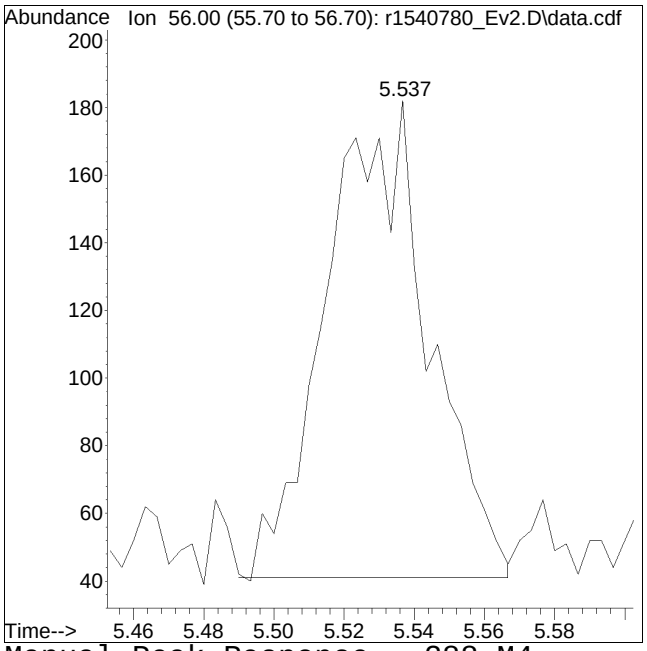
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540780_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/21/2023 10:12 am

Compound #12: acrolein



Original Peak Response = 139



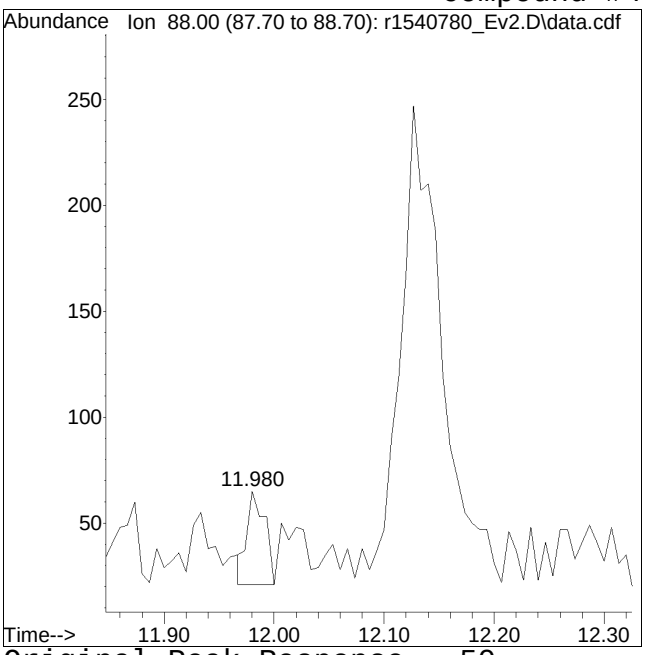
Manual Peak Response = 288 M4

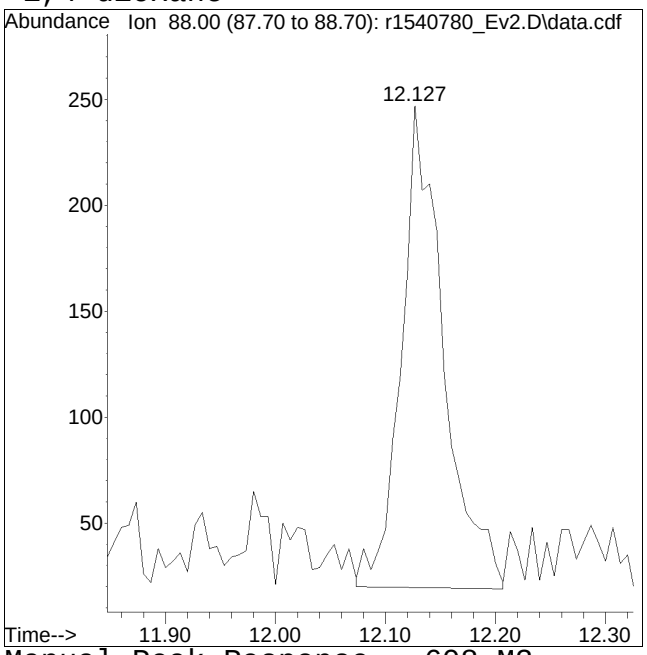
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540780_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/21/2023 10:12 am

Compound #43: 1,4-dioxane





Original Peak Response = 50 Manual Peak Response = 608 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540781_Ev2.D
Acq On : 20 Nov 2023 9:07 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:06 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.067	49	197223	10.000	ppbV	0.00
Standard Area = 207652			Recovery = 94.98%			
33) 1,4-difluorobenzene	11.287	114	581664	10.000	ppbV	0.00
Standard Area = 601845			Recovery = 96.65%			
51) chlorobenzene-D5	16.008	54	96413	10.000	ppbV	0.00
Standard Area = 99919			Recovery = 96.49%			
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	14.142	98	12988	0.169	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.69%#			
67) bromofluorobenzene	17.383	95	4247	0.084	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.84%#			
Target Compounds						Qvalue
2) propylene	3.922	41	1276M6	0.098	ppbV	
3) dichlorodifluoromethane	3.994	85	2631	0.134	ppbV	99
4) chloromethane	4.156	50	1032	0.082	ppbV	96
5) Freon-114	4.264	85	2519	0.104	ppbV	98
6) vinyl chloride	4.384	62	1304	0.107	ppbV	94
7) 1,3-butadiene	4.528	54	782	0.080	ppbV #	78
8) bromomethane	4.816	94	1095	0.114	ppbV	99
9) chloroethane	4.996	64	601	0.100	ppbV	96
10) ethanol	5.152	31	4514	0.454	ppbV	98
11) vinyl bromide	5.383	106	1000	0.105	ppbV	92
12) acrolein	5.527	56	557	0.108	ppbV #	90
13) acetone	5.670	43	7385	0.461	ppbV #	96
14) trichlorofluoromethane	5.840	101	1867	0.121	ppbV	98
15) isopropyl alcohol	5.960	45	5417	0.238	ppbV #	95
16) acrylonitrile	6.173	53	1061M4	0.101	ppbV	
17) 1,1-dichloroethene	6.534	61	1915	0.100	ppbV	96
18) tertiary butyl alcohol	6.636	59	3004	0.129	ppbV	94
19) methylene chloride	6.672	49	2354	0.147	ppbV	100
20) 3-chloropropene	6.804	41	1569	0.072	ppbV	92
21) carbon disulfide	6.984	76	3690	0.113	ppbV #	51
22) Freon 113	6.972	101	2280	0.102	ppbV	97
23) trans-1,2-dichloroethene	7.717	61	1739	0.093	ppbV	99
24) 1,1-dichloroethane	7.942	63	2385	0.094	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540781_Ev2.D
Acq On : 20 Nov 2023 9:07 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:06 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.042	73	3048	0.097	ppbV	#	95
26) vinyl acetate	8.133	43	2574M3	0.083	ppbV		
27) 2-butanone	8.417	43	2803	0.082	ppbV	#	95
28) cis-1,2-dichloroethene	8.883	61	1781	0.098	ppbV		97
29) Ethyl Acetate	9.183	61	389	0.080	ppbV	#	25
30) chloroform	9.225	83	2698	0.126	ppbV	#	93
31) Tetrahydrofuran	9.700	42	1680	0.078	ppbV		95
32) 1,2-dichloroethane	10.058	62	1419	0.098	ppbV		94
34) hexane	9.142	57	2713	0.098	ppbV	#	55
36) 1,1,1-trichloroethane	10.350	97	1917	0.093	ppbV	#	96
37) benzene	10.867	78	5122	0.099	ppbV		99
38) carbon tetrachloride	11.047	117	1812	0.108	ppbV		96
39) cyclohexane	11.187	56	2942	0.099	ppbV		99
40) Dibromomethane	11.787	93	1446	0.092	ppbV	#	98
41) 1,2-dichloropropane	11.813	63	1750	0.078	ppbV		92
42) bromodichloromethane	12.040	83	2300	0.108	ppbV	#	93
43) 1,4-dioxane	12.127	88	1047	0.093	ppbV	#	80
44) trichloroethene	12.100	130	1751	0.087	ppbV		89
45) 2,2,4-trimethylpentane	12.140	57	8594	0.093	ppbV		99
46) heptane	12.453	43	2844	0.070	ppbV		97
47) cis-1,3-dichloropropene	13.108	75	1921	0.081	ppbV		90
48) 4-methyl-2-pentanone	13.175	43	3559	0.076	ppbV		97
49) trans-1,3-dichloropropene	13.742	75	1430	0.076	ppbV	#	86
50) 1,1,2-trichloroethane	13.933	97	1705	0.088	ppbV		96
52) toluene	14.250	91	5550	0.094	ppbV		100
54) 2-hexanone	14.550	43	2417	0.056	ppbV		97
55) dibromochloromethane	14.692	129	1885	0.102	ppbV		99
56) 1,2-dibromoethane	14.942	107	2340	0.091	ppbV		99
57) tetrachloroethene	15.400	166	2104	0.099	ppbV		96
58) 1,1,1,2-tetrachloroethane	16.033	131	1644	0.091	ppbV		97
59) chlorobenzene	16.050	112	4517	0.102	ppbV		99
60) ethylbenzene	16.400	91	6891	0.087	ppbV		98
61) m+p-xylene	16.567	91	10844	0.175	ppbV		99
62) bromoform	16.633	173	1461	0.106	ppbV		99
63) styrene	16.892	104	3733	0.083	ppbV		97
64) 1,1,2,2-tetrachloroethane	16.983	83	4281	0.097	ppbV		99
65) o-xylene	16.983	91	5452	0.087	ppbV		100
66) 1,2,3-Trichloropropane	17.100	75	3220	0.097	ppbV		98
68) isopropylbenzene	17.500	105	6838	0.091	ppbV		99
69) Bromobenzene	17.575	77	4120	0.094	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540781_Ev2.D
Acq On : 20 Nov 2023 9:07 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:06 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

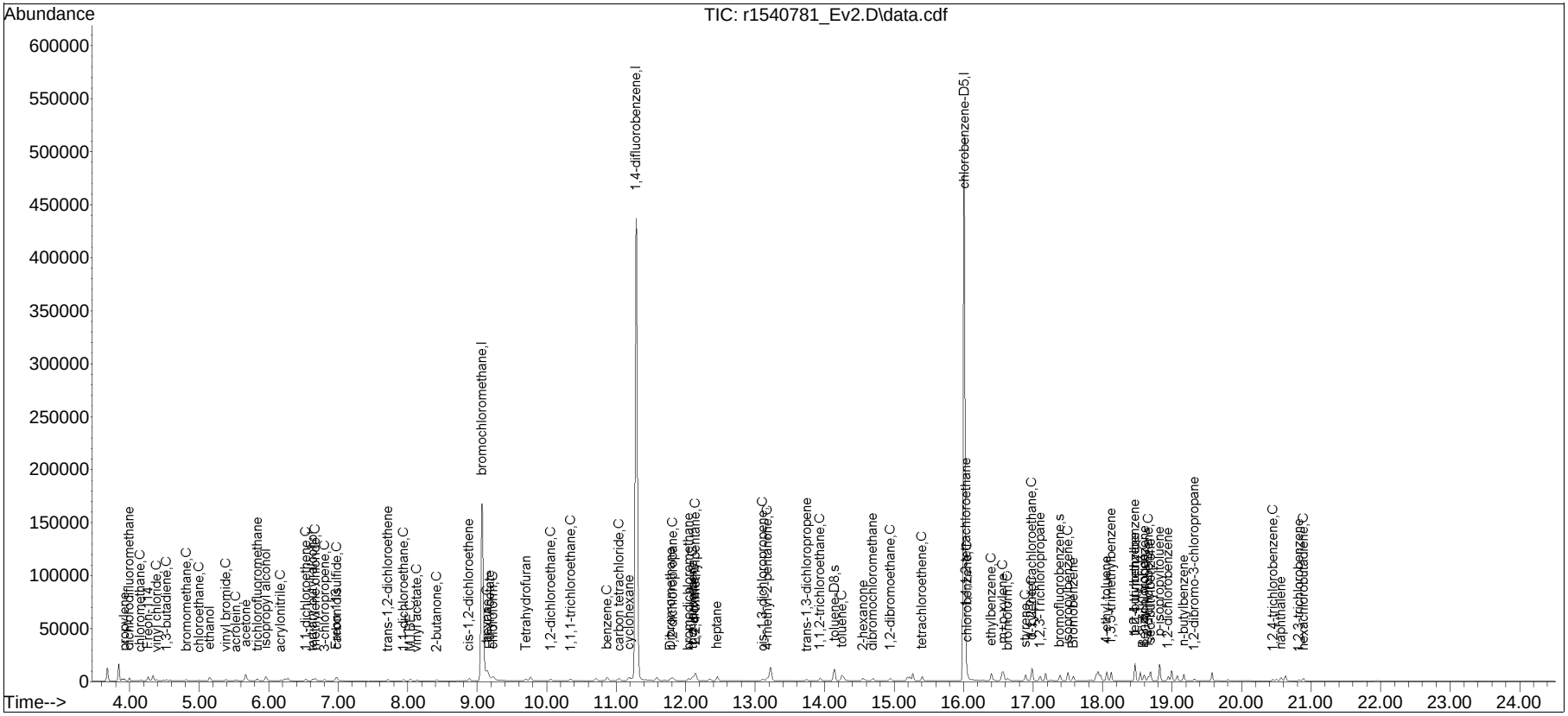
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	7046	0.092	ppbV #	98
71) 1,3,5-trimethylbenzene	18.125	105	5706	0.082	ppbV	99
72) tert-butylbenzene	18.467	119	6556	0.095	ppbV	99
73) 1,2,4-trimethylbenzene	18.467	105	6036	0.091	ppbV	93
74) Benzyl Chloride	18.592	91	2305	0.059	ppbV	98
75) 1,3-dichlorobenzene	18.600	146	4076	0.095	ppbV #	88
76) 1,4-dichlorobenzene	18.658	146	3908	0.092	ppbV #	89
77) sec-butylbenzene	18.692	105	8534	0.089	ppbV	98
78) p-isopropyltoluene	18.817	119	7560	0.099	ppbV	97
79) 1,2-dichlorobenzene	18.942	146	3679	0.088	ppbV	93
80) n-butylbenzene	19.167	91	6235	0.078	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.317	75	1136	0.085	ppbV #	83
82) 1,2,4-trichlorobenzene	20.450	180	2023	0.076	ppbV	95
83) naphthalene	20.567	128	5915	0.061	ppbV #	95
84) 1,2,3-trichlorobenzene	20.825	180	1847	0.079	ppbV #	93
85) hexachlorobutadiene	20.892	225	2042	0.090	ppbV	95

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540781_Ev2.D
Acq On : 20 Nov 2023 9:07 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:06 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

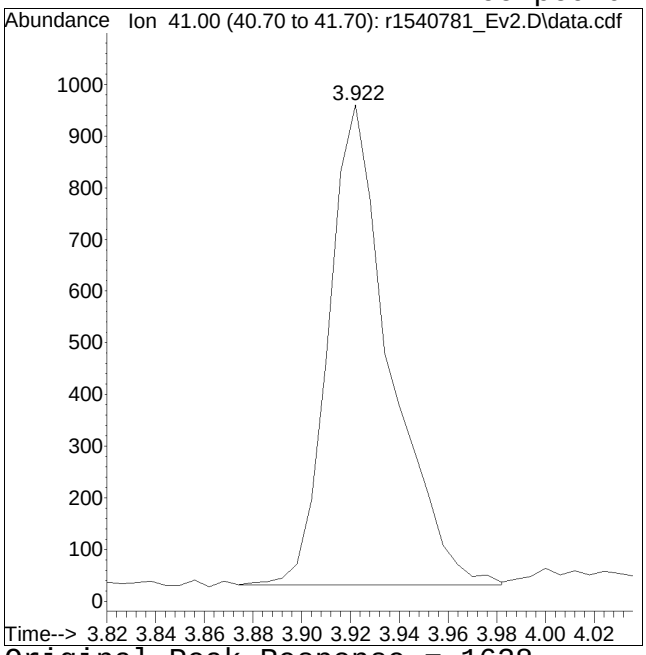


Manual Integration Report

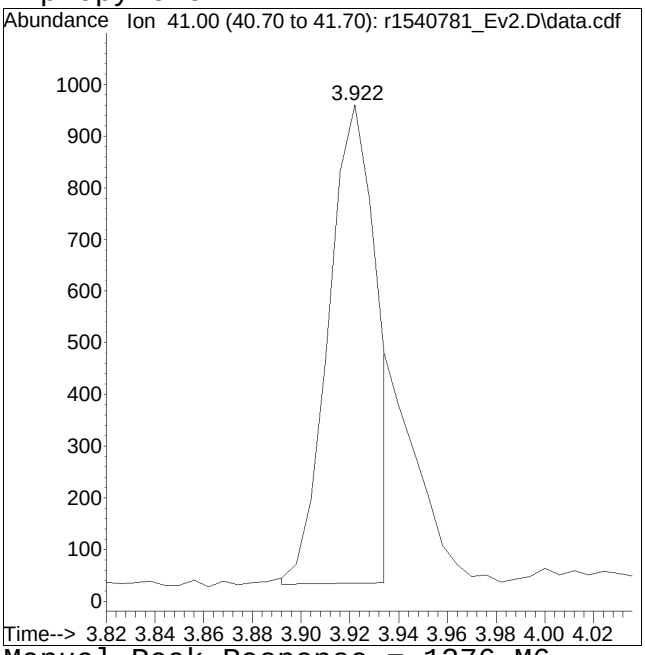
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540781_Ev2.D
Date Inj'd : 11/20/2020 0:9: 7
Sample : ITO15-SIMSTD0.1

Method : TSIM15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 10:13 am

Compound #2: propylene



Original Peak Response = 1628



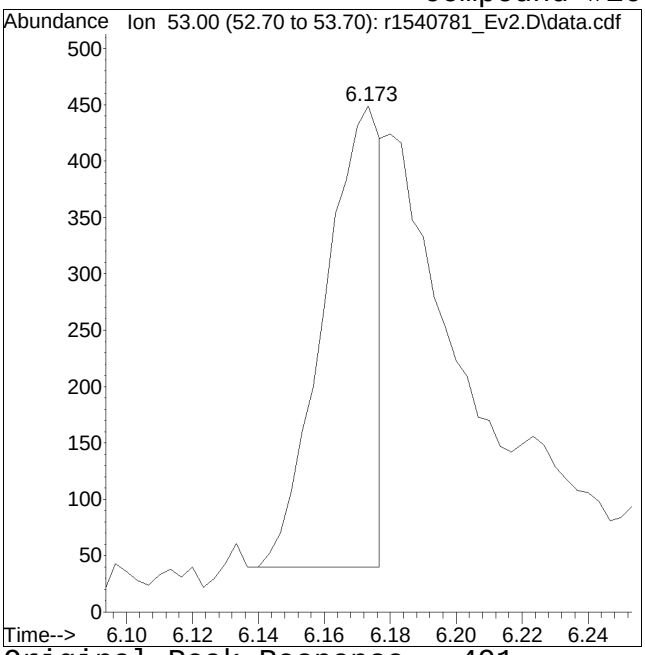
Manual Peak Response = 1276 M6

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

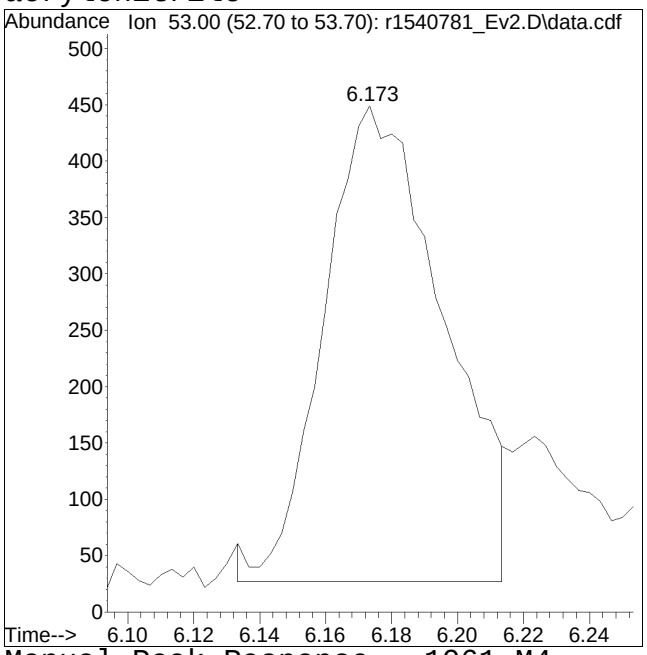
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540781_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:9: 7 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 11/21/2023 10:13 am

Compound #16: acrylonitrile



Original Peak Response = 491



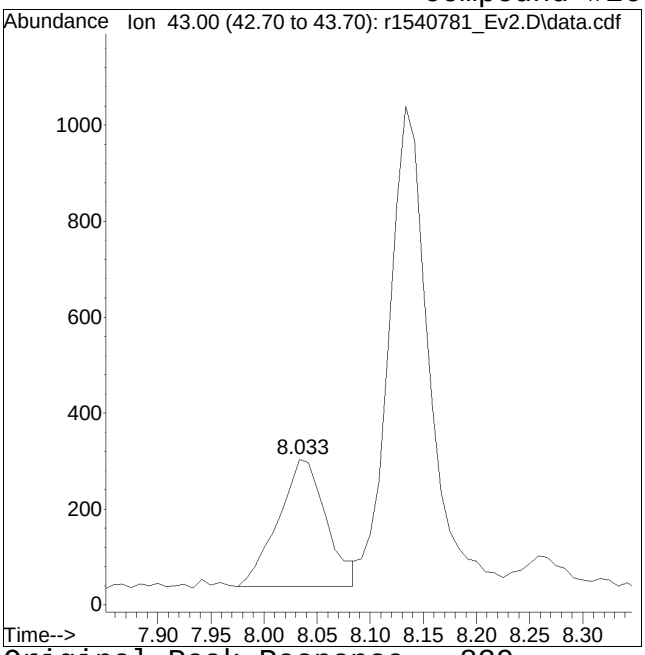
Manual Peak Response = 1061 M4

M4 = Poor automated baseline construction.

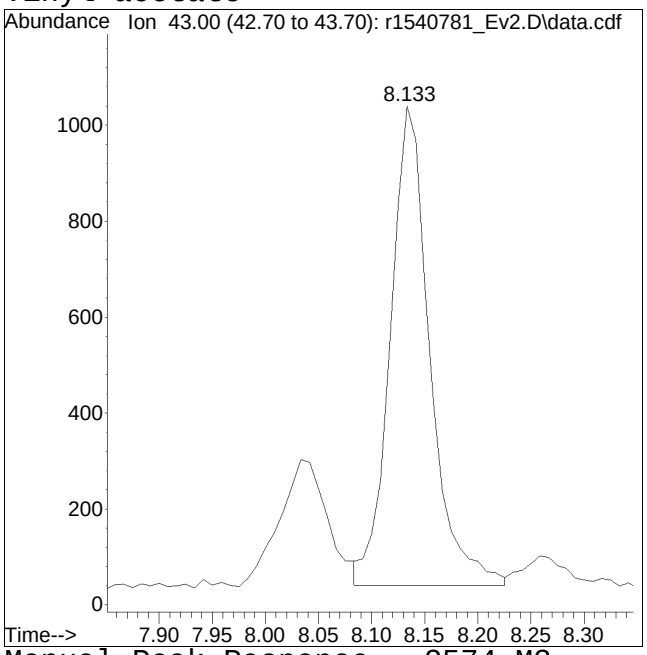
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540781_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:9: 7 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 11/21/2023 10:13 am

Compound #26: vinyl acetate



Original Peak Response = 839



Manual Peak Response = 2574 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540782_Ev2.D
Acq On : 20 Nov 2023 9:44 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:19 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.067	49	203772	10.000	ppbV	0.00
Standard Area = 207652			Recovery = 98.13%			
33) 1,4-difluorobenzene	11.287	114	597359	10.000	ppbV	0.00
Standard Area = 601845			Recovery = 99.25%			
51) chlorobenzene-D5	16.000	54	98889	10.000	ppbV	0.00
Standard Area = 99919			Recovery = 98.97%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	216433	8.594	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.94%			
53) toluene-D8	14.133	98	702145	8.881	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.81%			
67) bromofluorobenzene	17.383	95	449883	8.699	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.99%			
Target Compounds						Qvalue
2) propylene	3.916	41	2511M6	0.188	ppbV	
3) dichlorodifluoromethane	3.988	85	5347	0.263	ppbV	99
4) chloromethane	4.150	50	2001	0.153	ppbV	98
5) Freon-114	4.258	85	5471	0.218	ppbV	99
6) vinyl chloride	4.384	62	2750	0.218	ppbV	95
7) 1,3-butadiene	4.528	54	2008	0.200	ppbV	92
8) bromomethane	4.810	94	2325	0.234	ppbV	98
9) chloroethane	4.996	64	1297	0.209	ppbV	95
10) ethanol	5.140	31	9610	0.935	ppbV	99
11) vinyl bromide	5.380	106	2011	0.204	ppbV	92
12) acrolein	5.513	56	1014	0.191	ppbV #	33
13) acetone	5.660	43	12559	0.758	ppbV #	100
14) trichlorofluoromethane	5.833	101	3839	0.241	ppbV	97
15) isopropyl alcohol	5.950	45	7891	0.336	ppbV	97
16) acrylonitrile	6.163	53	1556	0.143	ppbV	97
17) 1,1-dichloroethene	6.528	61	4117	0.208	ppbV	98
18) tertiary butyl alcohol	6.624	59	4717	0.196	ppbV	93
19) methylene chloride	6.672	49	3894	0.236	ppbV	99
20) 3-chloropropene	6.798	41	3442	0.152	ppbV	94
21) carbon disulfide	6.978	76	7717	0.228	ppbV #	77
22) Freon 113	6.972	101	4903	0.212	ppbV	99
23) trans-1,2-dichloroethene	7.717	61	4058	0.209	ppbV	99
24) 1,1-dichloroethane	7.933	63	5077	0.194	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540782_Ev2.D
Acq On : 20 Nov 2023 9:44 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:19 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.033	73	6356	0.196	ppbV		99
26) vinyl acetate	8.125	43	4927	0.154	ppbV		98
27) 2-butanone	8.400	43	5581	0.158	ppbV		98
28) cis-1,2-dichloroethene	8.883	61	3813	0.203	ppbV		92
29) Ethyl Acetate	9.167	61	967	0.191	ppbV		66
30) chloroform	9.225	83	5560	0.252	ppbV		99
31) Tetrahydrofuran	9.692	42	3259	0.146	ppbV		95
32) 1,2-dichloroethane	10.058	62	3573	0.238	ppbV		95
34) hexane	9.133	57	5724	0.201	ppbV	#	57
36) 1,1,1-trichloroethane	10.342	97	4067	0.192	ppbV		98
37) benzene	10.867	78	10645	0.201	ppbV		99
38) carbon tetrachloride	11.040	117	3844	0.224	ppbV		97
39) cyclohexane	11.187	56	5900	0.193	ppbV		97
40) Dibromomethane	11.787	93	3124	0.194	ppbV	#	99
41) 1,2-dichloropropane	11.813	63	3701	0.161	ppbV		97
42) bromodichloromethane	12.040	83	4918	0.225	ppbV		97
43) 1,4-dioxane	12.113	88	2242	0.194	ppbV		88
44) trichloroethene	12.093	130	3993	0.192	ppbV		93
45) 2,2,4-trimethylpentane	12.140	57	18578	0.195	ppbV		98
46) heptane	12.453	43	6095	0.145	ppbV		100
47) cis-1,3-dichloropropene	13.108	75	4249	0.175	ppbV		91
48) 4-methyl-2-pentanone	13.167	43	6879	0.144	ppbV		99
49) trans-1,3-dichloropropene	13.733	75	3174	0.165	ppbV		91
50) 1,1,2-trichloroethane	13.933	97	3653	0.184	ppbV		99
52) toluene	14.242	91	11782	0.194	ppbV		98
54) 2-hexanone	14.542	43	5605	0.126	ppbV	#	94
55) dibromochloromethane	14.692	129	4082	0.215	ppbV		98
56) 1,2-dibromoethane	14.942	107	5004	0.189	ppbV		97
57) tetrachloroethene	15.400	166	4619	0.212	ppbV		99
58) 1,1,1,2-tetrachloroethane	16.033	131	3555	0.192	ppbV		99
59) chlorobenzene	16.050	112	9459	0.208	ppbV		100
60) ethylbenzene	16.400	91	14323	0.177	ppbV		99
61) m+p-xylene	16.558	91	23007	0.363	ppbV		97
62) bromoform	16.633	173	3024	0.213	ppbV		98
63) styrene	16.892	104	8926	0.193	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.983	83	8929	0.196	ppbV		99
65) o-xylene	16.983	91	12006	0.188	ppbV		97
66) 1,2,3-Trichloropropane	17.100	75	6581	0.193	ppbV		99
68) isopropylbenzene	17.500	105	15019	0.195	ppbV		97
69) Bromobenzene	17.575	77	8797	0.196	ppbV		100

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540782_Ev2.D
Acq On : 20 Nov 2023 9:44 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:19 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

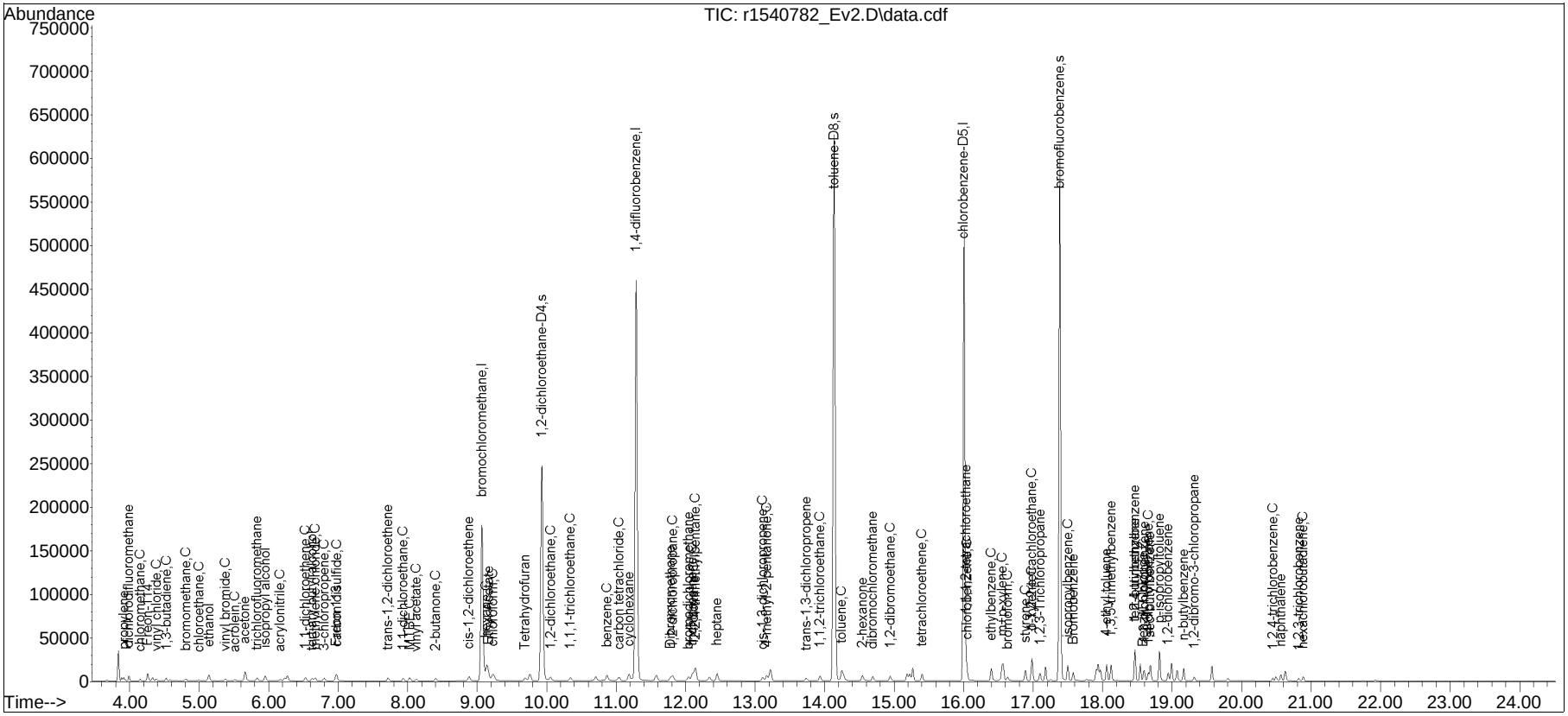
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	15146	0.192	ppbV	98
71) 1,3,5-trimethylbenzene	18.125	105	13221	0.184	ppbV	99
72) tert-butylbenzene	18.467	119	14314	0.203	ppbV	99
73) 1,2,4-trimethylbenzene	18.467	105	13232	0.194	ppbV	94
74) Benzyl Chloride	18.583	91	5197	0.130	ppbV	97
75) 1,3-dichlorobenzene	18.600	146	8790	0.200	ppbV	93
76) 1,4-dichlorobenzene	18.658	146	8351	0.192	ppbV	94
77) sec-butylbenzene	18.683	105	18517	0.187	ppbV	97
78) p-isopropyltoluene	18.817	119	16235	0.208	ppbV	96
79) 1,2-dichlorobenzene	18.942	146	7957	0.186	ppbV	93
80) n-butylbenzene	19.167	91	13604	0.167	ppbV	96
81) 1,2-dibromo-3-chloropr...	19.317	75	2409	0.176	ppbV	86
82) 1,2,4-trichlorobenzene	20.450	180	4152	0.152	ppbV	97
83) naphthalene	20.567	128	11680	0.117	ppbV	98
84) 1,2,3-trichlorobenzene	20.825	180	3534	0.148	ppbV	93
85) hexachlorobutadiene	20.883	225	4102	0.176	ppbV	95

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540782_Ev2.D
Acq On : 20 Nov 2023 9:44 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:19 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

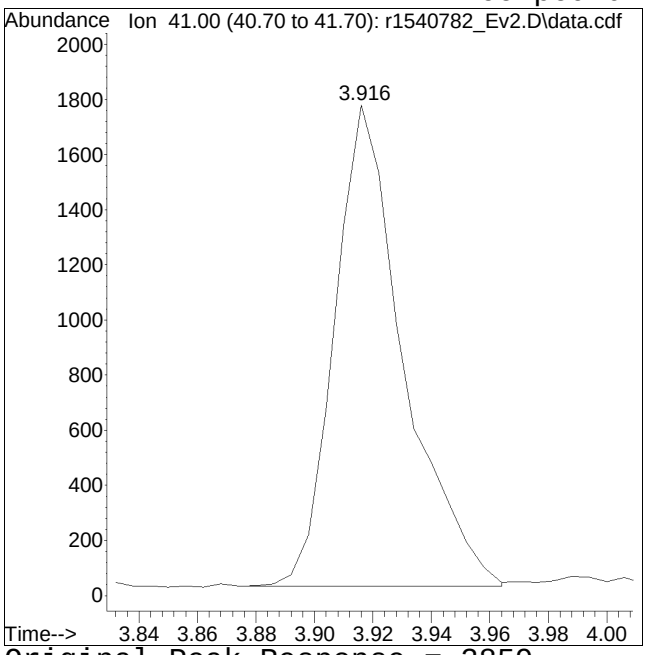


Manual Integration Report

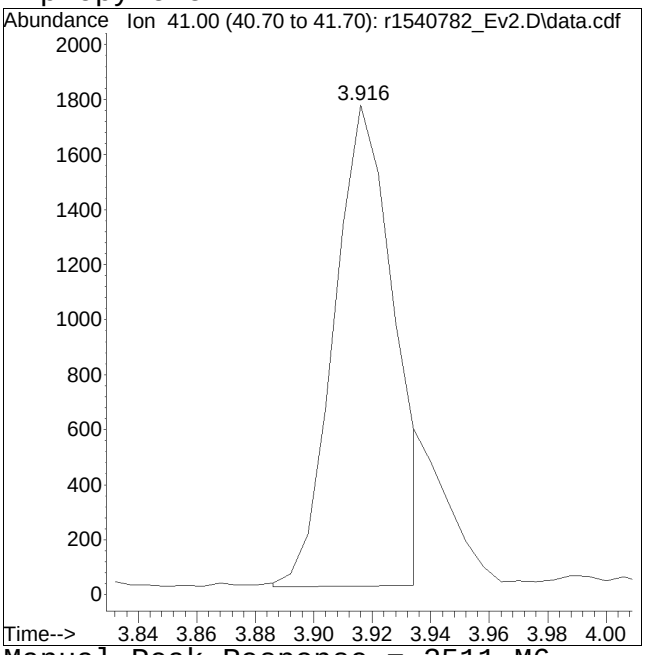
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1540782_Ev2.D
Date Inj'd : 11/20/2020 0:9: 4
Sample : ITO15-SIMSTD0.2

Method : TSIM15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 10:13 am

Compound #2: propylene



Original Peak Response = 2859



Manual Peak Response = 2511 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540783_Ev2.D
Acq On : 20 Nov 2023 10:22 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.067	49	204590	10.000	ppbV	0.00
Standard Area = 207652			Recovery = 98.53%			
33) 1,4-difluorobenzene	11.287	114	592879	10.000	ppbV	0.00
Standard Area = 601845			Recovery = 98.51%			
51) chlorobenzene-D5	16.000	54	98383	10.000	ppbV	0.00
Standard Area = 99919			Recovery = 98.46%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	219697	8.790	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.90%			
53) toluene-D8	14.133	98	710720	9.036	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.36%			
67) bromofluorobenzene	17.383	95	466217	9.061	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.61%			
Target Compounds						Qvalue
2) propylene	3.922	41	5975M6	0.444	ppbV	
3) dichlorodifluoromethane	3.994	85	13412	0.657	ppbV	100
4) chloromethane	4.156	50	5082	0.388	ppbV	98
5) Freon-114	4.264	85	13466	0.534	ppbV	99
6) vinyl chloride	4.384	62	6701	0.528	ppbV	98
7) 1,3-butadiene	4.528	54	4771	0.472	ppbV	94
8) bromomethane	4.810	94	5625	0.564	ppbV	100
9) chloroethane	4.996	64	3123	0.500	ppbV	98
10) ethanol	5.140	31	23742	2.302	ppbV	98
11) vinyl bromide	5.380	106	4834	0.489	ppbV	99
12) acrolein	5.517	56	2630	0.492	ppbV	96
13) acetone	5.660	43	29844	1.795	ppbV #	100
14) trichlorofluoromethane	5.837	101	9321	0.583	ppbV	99
15) isopropyl alcohol	5.950	45	19210	0.814	ppbV	99
16) acrylonitrile	6.170	53	5948	0.544	ppbV	95
17) 1,1-dichloroethene	6.534	61	10013	0.503	ppbV	98
18) tertiary butyl alcohol	6.624	59	11626	0.482	ppbV	94
19) methylene chloride	6.672	49	8794	0.530	ppbV	100
20) 3-chloropropene	6.804	41	8612	0.380	ppbV	97
21) carbon disulfide	6.978	76	19090	0.563	ppbV #	91
22) Freon 113	6.972	101	11868	0.512	ppbV	99
23) trans-1,2-dichloroethene	7.717	61	9867	0.506	ppbV	99
24) 1,1-dichloroethane	7.942	63	12551	0.478	ppbV	100

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540783_Ev2.D
Acq On : 20 Nov 2023 10:22 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.025	73	15689	0.482	ppbV		98
26) vinyl acetate	8.125	43	12096	0.377	ppbV		98
27) 2-butanone	8.400	43	13571	0.384	ppbV		99
28) cis-1,2-dichloroethene	8.883	61	9442	0.501	ppbV		99
29) Ethyl Acetate	9.167	61	2477	0.488	ppbV	#	59
30) chloroform	9.225	83	13541	0.611	ppbV		100
31) Tetrahydrofuran	9.683	42	8540M4	0.382	ppbV		
32) 1,2-dichloroethane	10.058	62	8065	0.534	ppbV		98
34) hexane	9.133	57	13629	0.482	ppbV	#	67
36) 1,1,1-trichloroethane	10.342	97	9876	0.470	ppbV		99
37) benzene	10.867	78	25439	0.484	ppbV		100
38) carbon tetrachloride	11.040	117	9393	0.550	ppbV		96
39) cyclohexane	11.187	56	14815	0.488	ppbV		99
40) Dibromomethane	11.780	93	7421	0.464	ppbV	#	100
41) 1,2-dichloropropane	11.813	63	8667	0.381	ppbV		97
42) bromodichloromethane	12.040	83	12275	0.565	ppbV		98
43) 1,4-dioxane	12.107	88	5419	0.474	ppbV		99
44) trichloroethene	12.093	130	9759	0.473	ppbV		94
45) 2,2,4-trimethylpentane	12.140	57	46229	0.490	ppbV		98
46) heptane	12.453	43	15034	0.361	ppbV		98
47) cis-1,3-dichloropropene	13.108	75	10734	0.447	ppbV		97
48) 4-methyl-2-pentanone	13.158	43	16692	0.352	ppbV		98
49) trans-1,3-dichloropropene	13.733	75	8396	0.441	ppbV		97
50) 1,1,2-trichloroethane	13.933	97	8767	0.445	ppbV		99
52) toluene	14.242	91	28847	0.479	ppbV		98
54) 2-hexanone	14.542	43	14254	0.323	ppbV		98
55) dibromochloromethane	14.692	129	10170	0.537	ppbV		99
56) 1,2-dibromoethane	14.942	107	12681	0.482	ppbV		99
57) tetrachloroethene	15.400	166	11082	0.511	ppbV		99
58) 1,1,1,2-tetrachloroethane	16.033	131	8781	0.477	ppbV		99
59) chlorobenzene	16.050	112	22958	0.507	ppbV		98
60) ethylbenzene	16.400	91	36019	0.448	ppbV		99
61) m+p-xylene	16.558	91	57982	0.919	ppbV		99
62) bromoform	16.633	173	7625	0.541	ppbV		100
63) styrene	16.883	104	22359	0.485	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.983	83	22283	0.492	ppbV		99
65) o-xylene	16.983	91	29212	0.459	ppbV		100
66) 1,2,3-Trichloropropane	17.092	75	16523	0.488	ppbV		100
68) isopropylbenzene	17.500	105	37332	0.488	ppbV		99
69) Bromobenzene	17.575	77	21814	0.489	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540783_Ev2.D
Acq On : 20 Nov 2023 10:22 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

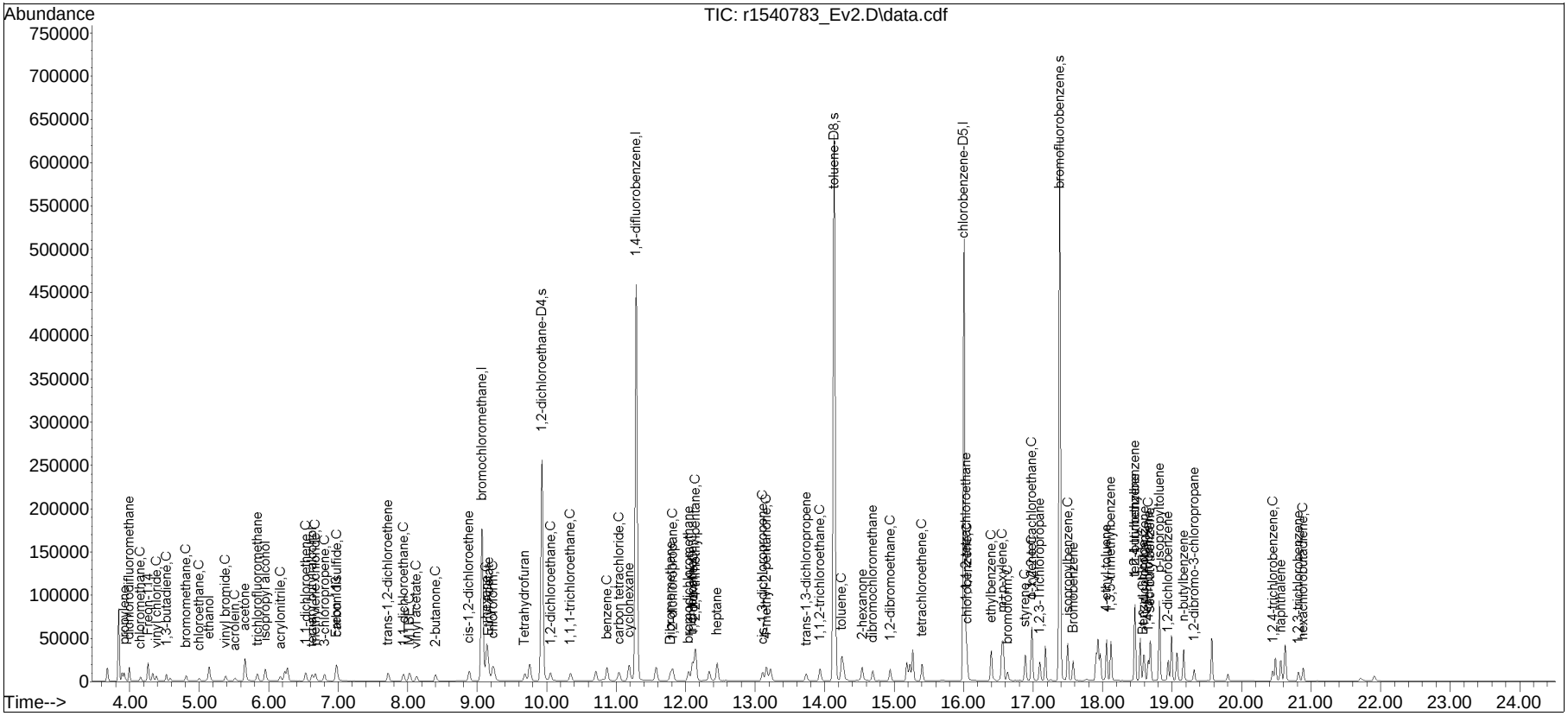
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	38845	0.495	ppbV	99
71) 1,3,5-trimethylbenzene	18.117	105	37455	0.525	ppbV	99
72) tert-butylbenzene	18.467	119	35796	0.509	ppbV	100
73) 1,2,4-trimethylbenzene	18.467	105	33502	0.493	ppbV	96
74) Benzyl Chloride	18.583	91	13649	0.342	ppbV	98
75) 1,3-dichlorobenzene	18.600	146	21945	0.501	ppbV	95
76) 1,4-dichlorobenzene	18.658	146	21878	0.505	ppbV	95
77) sec-butylbenzene	18.683	105	47648	0.484	ppbV	97
78) p-isopropyltoluene	18.817	119	43093	0.554	ppbV	95
79) 1,2-dichlorobenzene	18.942	146	20755	0.489	ppbV	96
80) n-butylbenzene	19.167	91	36002	0.443	ppbV	94
81) 1,2-dibromo-3-chloropr...	19.317	75	6737	0.494	ppbV	90
82) 1,2,4-trichlorobenzene	20.450	180	13002	0.477	ppbV	99
83) naphthalene	20.567	128	38728	0.391	ppbV	99
84) 1,2,3-trichlorobenzene	20.817	180	11783	0.497	ppbV	96
85) hexachlorobutadiene	20.883	225	12448	0.538	ppbV	96

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540783_Ev2.D
Acq On : 20 Nov 2023 10:22 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:32 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

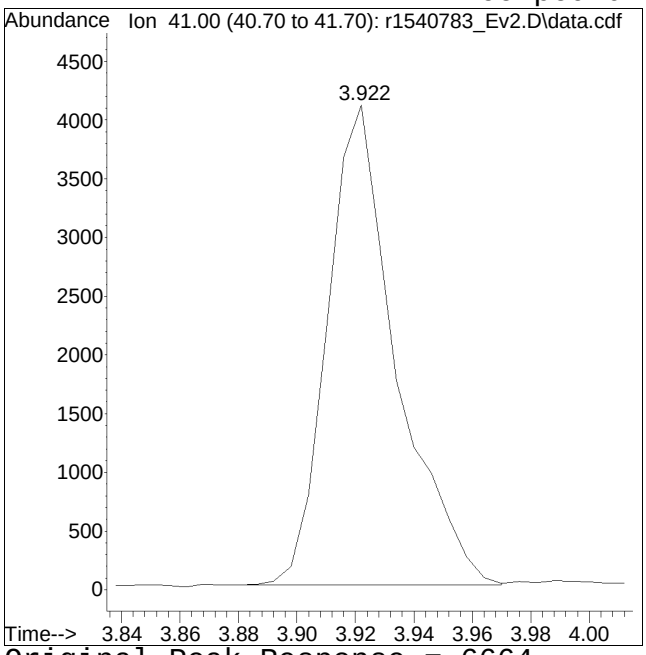


Manual Integration Report

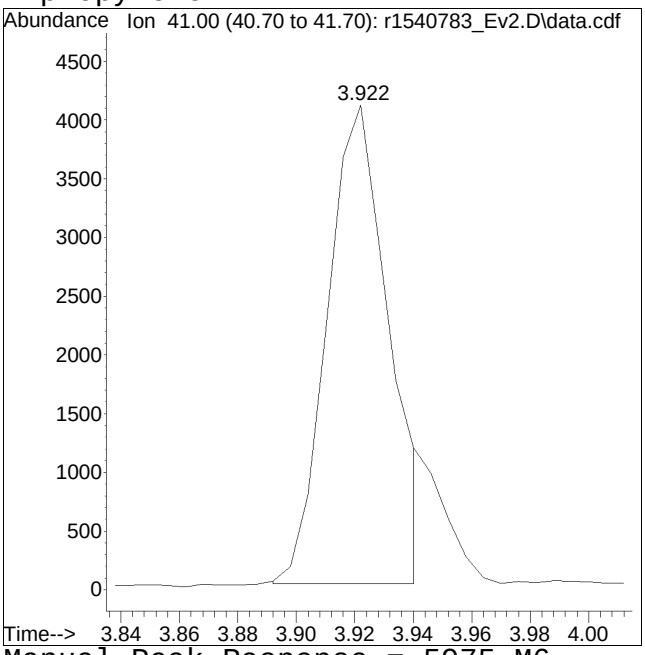
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540783_Ev2.D
Date Inj'd : 11/20/2020 0:0: 2
Sample : ITO15-SIMSTD0.5

Method : TSIM15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 10:13 am

Compound #2: propylene



Original Peak Response = 6664



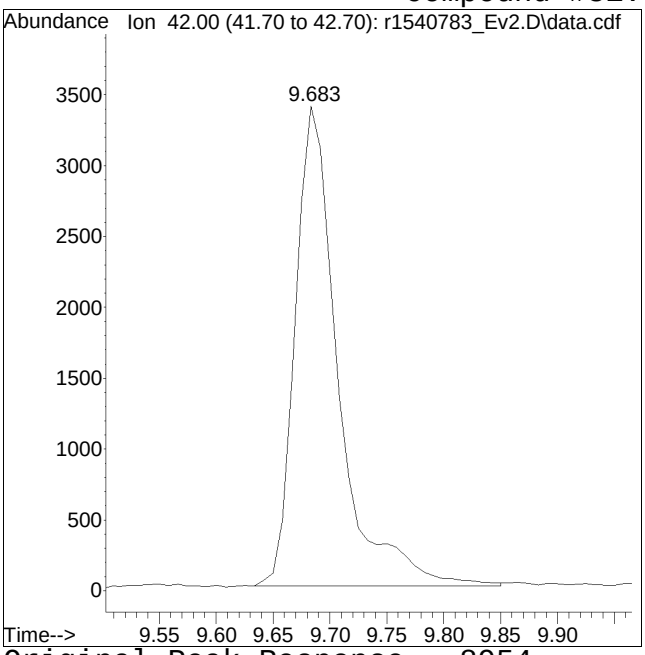
Manual Peak Response = 5975 M6

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

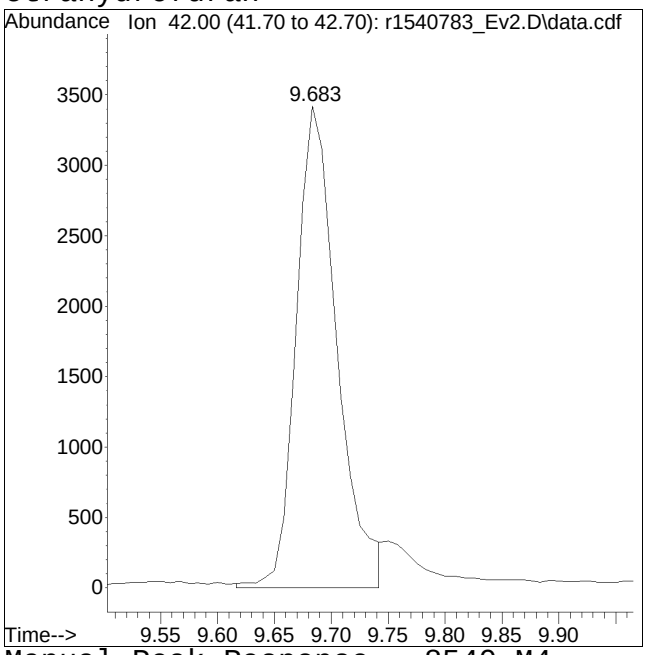
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540783_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:0: 2 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/21/2023 10:13 am

Compound #31: Tetrahydrofuran



Original Peak Response = 8954



Manual Peak Response = 8540 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540784_Ev2.D
Acq On : 20 Nov 2023 11:03 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:45 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.067	49	204983	10.000	ppbV	0.00
Standard Area = 207652			Recovery = 98.71%			
33) 1,4-difluorobenzene	11.287	114	598345	10.000	ppbV	0.00
Standard Area = 601845			Recovery = 99.42%			
51) chlorobenzene-D5	16.000	54	99246	10.000	ppbV	0.00
Standard Area = 99919			Recovery = 99.33%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	217311	8.615	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.15%			
53) toluene-D8	14.133	98	699348	8.814	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.14%			
67) bromofluorobenzene	17.383	95	466706	8.991	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.91%			
Target Compounds						Qvalue
2) propylene	3.916	41	11894M6	0.883	ppbV	
3) dichlorodifluoromethane	3.994	85	26426	1.291	ppbV	100
4) chloromethane	4.156	50	10068	0.767	ppbV	98
5) Freon-114	4.258	85	26918	1.065	ppbV	97
6) vinyl chloride	4.384	62	13270	1.044	ppbV	99
7) 1,3-butadiene	4.528	54	9717	0.960	ppbV	99
8) bromomethane	4.810	94	11385	1.139	ppbV	99
9) chloroethane	4.996	64	6294	1.006	ppbV	99
10) ethanol	5.134	31	47256	4.572	ppbV	99
11) vinyl bromide	5.377	106	9919	1.002	ppbV	98
12) acrolein	5.510	56	5217	0.975	ppbV	98
13) acetone	5.650	43	60293	3.619	ppbV	100
14) trichlorofluoromethane	5.833	101	18703	1.167	ppbV	99
15) isopropyl alcohol	5.940	45	38549	1.631	ppbV	100
16) acrylonitrile	6.163	53	10398	0.949	ppbV	94
17) 1,1-dichloroethene	6.528	61	20048	1.006	ppbV	99
18) tertiary butyl alcohol	6.612	59	23411	0.969	ppbV	99
19) methylene chloride	6.672	49	17400	1.047	ppbV	99
20) 3-chloropropene	6.798	41	17216	0.758	ppbV	99
21) carbon disulfide	6.978	76	38796	1.141	ppbV	96
22) Freon 113	6.972	101	23660	1.019	ppbV	100
23) trans-1,2-dichloroethene	7.717	61	20092	1.029	ppbV	100
24) 1,1-dichloroethane	7.933	63	24997	0.950	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540784_Ev2.D
Acq On : 20 Nov 2023 11:03 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:45 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.017	73	31700	0.973	ppbV		99
26) vinyl acetate	8.125	43	25053	0.779	ppbV		98
27) 2-butanone	8.392	43	27394	0.773	ppbV		99
28) cis-1,2-dichloroethene	8.883	61	18988	1.006	ppbV		98
29) Ethyl Acetate	9.158	61	4842	0.953	ppbV		72
30) chloroform	9.225	83	27010	1.216	ppbV		99
31) Tetrahydrofuran	9.675	42	16773	0.749	ppbV		100
32) 1,2-dichloroethane	10.050	62	15566	1.030	ppbV		99
34) hexane	9.133	57	27823	0.974	ppbV		80
36) 1,1,1-trichloroethane	10.342	97	19805	0.935	ppbV		99
37) benzene	10.867	78	51075	0.962	ppbV		100
38) carbon tetrachloride	11.040	117	18964	1.101	ppbV		96
39) cyclohexane	11.187	56	29476	0.963	ppbV		97
40) Dibromomethane	11.780	93	14868	0.921	ppbV	#	99
41) 1,2-dichloropropane	11.813	63	17611	0.767	ppbV		98
42) bromodichloromethane	12.040	83	25594	1.166	ppbV		98
43) 1,4-dioxane	12.100	88	11104	0.961	ppbV		97
44) trichloroethene	12.093	130	19943	0.958	ppbV		98
45) 2,2,4-trimethylpentane	12.140	57	93120	0.978	ppbV		99
46) heptane	12.453	43	30328	0.721	ppbV		99
47) cis-1,3-dichloropropene	13.108	75	22020	0.908	ppbV		99
48) 4-methyl-2-pentanone	13.150	43	33229	0.694	ppbV		99
49) trans-1,3-dichloropropene	13.733	75	17148	0.892	ppbV		98
50) 1,1,2-trichloroethane	13.933	97	17757	0.894	ppbV		99
52) toluene	14.242	91	57543	0.946	ppbV		100
54) 2-hexanone	14.533	43	29641	0.665	ppbV		98
55) dibromochloromethane	14.692	129	21058	1.103	ppbV		99
56) 1,2-dibromoethane	14.942	107	25840	0.973	ppbV		100
57) tetrachloroethene	15.400	166	22076	1.010	ppbV		99
58) 1,1,1,2-tetrachloroethane	16.033	131	17837	0.960	ppbV		99
59) chlorobenzene	16.050	112	45856	1.004	ppbV		100
60) ethylbenzene	16.400	91	72382	0.892	ppbV		99
61) m+p-xylene	16.558	91	116548	1.831	ppbV		100
62) bromoform	16.633	173	15938	1.120	ppbV		98
63) styrene	16.883	104	45994	0.989	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.983	83	44860	0.982	ppbV		99
65) o-xylene	16.983	91	59429	0.925	ppbV		100
66) 1,2,3-Trichloropropane	17.092	75	33049	0.967	ppbV		100
68) isopropylbenzene	17.500	105	74934	0.971	ppbV		100
69) Bromobenzene	17.575	77	44199	0.982	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540784_Ev2.D
Acq On : 20 Nov 2023 11:03 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:45 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

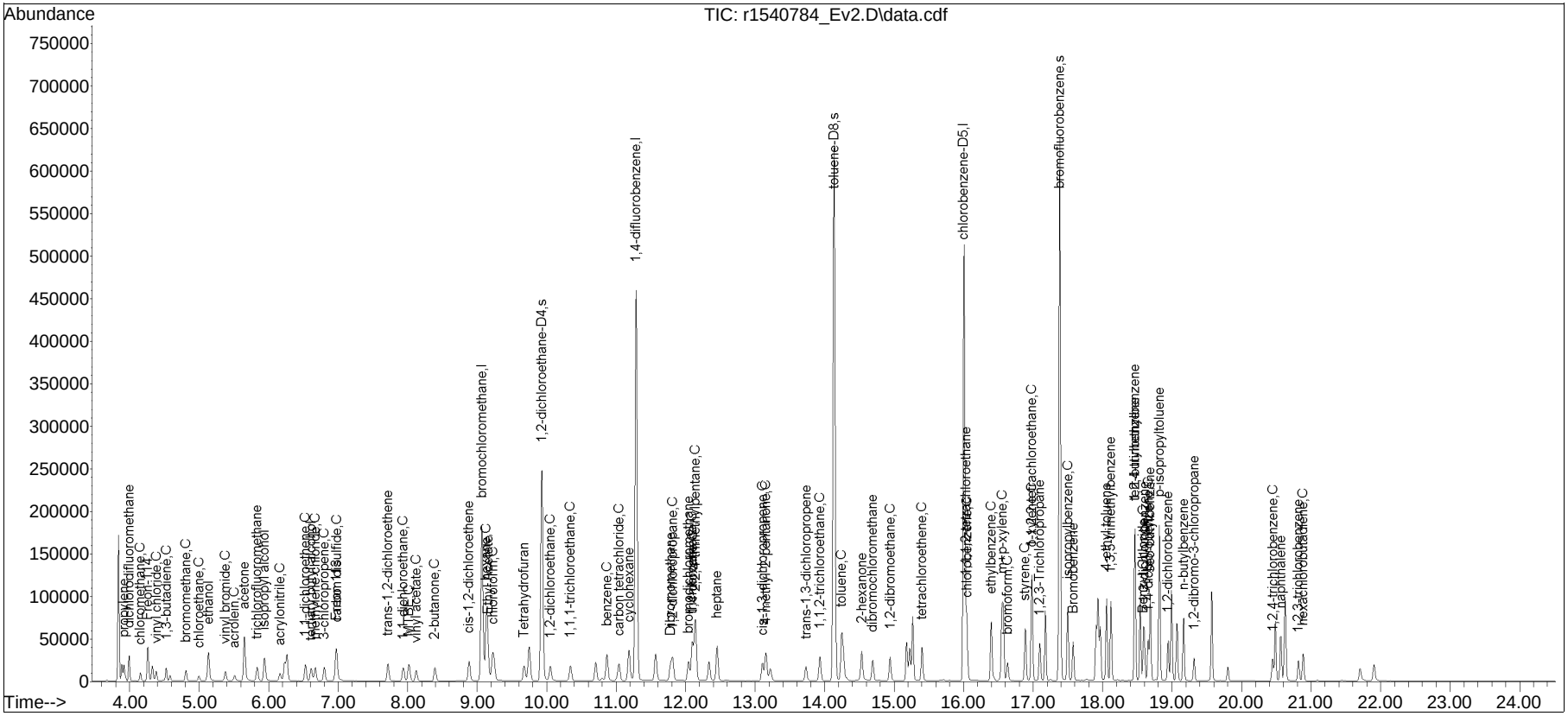
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	78616	0.993	ppbV	99
71) 1,3,5-trimethylbenzene	18.117	105	67824	0.942	ppbV	98
72) tert-butylbenzene	18.467	119	72752	1.026	ppbV	99
73) 1,2,4-trimethylbenzene	18.467	105	68110	0.994	ppbV	97
74) Benzyl Chloride	18.583	91	31232	0.776	ppbV	97
75) 1,3-dichlorobenzene	18.600	146	44281	1.002	ppbV	95
76) 1,4-dichlorobenzene	18.658	146	44396	1.016	ppbV	97
77) sec-butylbenzene	18.683	105	95273	0.960	ppbV	98
78) p-isopropyltoluene	18.817	119	86551	1.104	ppbV	95
79) 1,2-dichlorobenzene	18.942	146	42198	0.985	ppbV	96
80) n-butylbenzene	19.167	91	74255	0.906	ppbV	93
81) 1,2-dibromo-3-chloropr...	19.317	75	14174	1.030	ppbV	92
82) 1,2,4-trichlorobenzene	20.450	180	28615	1.041	ppbV	99
83) naphthalene	20.567	128	83830	0.839	ppbV	100
84) 1,2,3-trichlorobenzene	20.817	180	26216	1.095	ppbV	96
85) hexachlorobutadiene	20.883	225	26644	1.142	ppbV	96

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540784_Ev2.D
Acq On : 20 Nov 2023 11:03 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:45 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

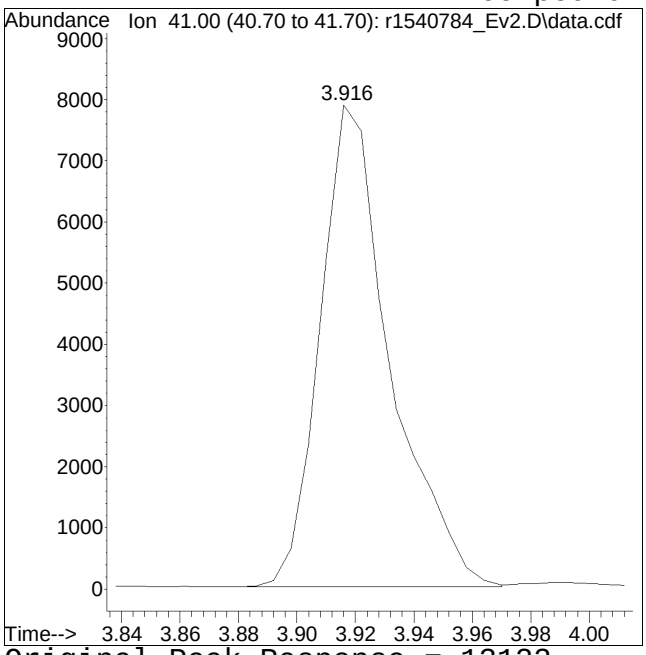


Manual Integration Report

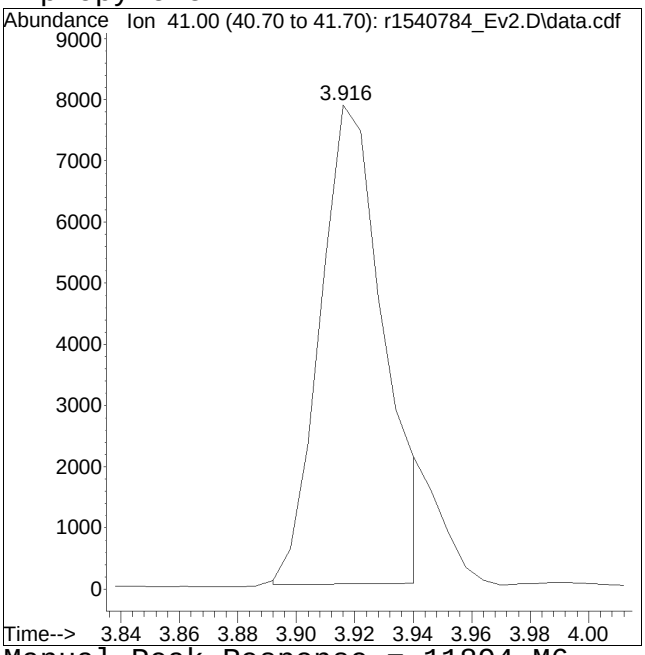
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540784_Ev2.D
Date Inj'd : 11/20/2020 0:1: 3
Sample : ITO15-SIMSTD1.0

Method : TSIM15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 10:13 am

Compound #2: propylene



Original Peak Response = 13122



Manual Peak Response = 11894 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540785_Ev2.D
Acq On : 20 Nov 2023 11:42 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:09:30 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Nov 10 11:21:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.067	49	207652	10.000	ppbV	-0.06
Standard Area = 207652			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.287	114	601845	10.000	ppbV	-0.05
Standard Area = 601845			Recovery = 100.00%			
51) chlorobenzene-D5	16.000	54	99919	10.000	ppbV	-0.04
Standard Area = 99919			Recovery = 100.00%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	221817	8.541	ppbV	-0.05
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.41%			
53) toluene-D8	14.133	98	708436	8.753	ppbV	-0.05
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.53%			
67) bromofluorobenzene	17.383	95	455332	8.613	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.13%			
Target Compounds						Qvalue
2) propylene	3.916	41	51352M6	3.602	ppbV	
3) dichlorodifluoromethane	3.994	85	128845	6.478	ppbV	99
4) chloromethane	4.156	50	48718	3.518	ppbV	92
5) Freon-114	4.264	85	129580	5.092	ppbV	89
6) vinyl chloride	4.384	62	66043	5.150	ppbV	98
7) 1,3-butadiene	4.528	54	46017	4.452	ppbV	85
8) bromomethane	4.810	94	55848	5.596	ppbV	98
9) chloroethane	4.996	64	30775	4.863	ppbV #	85
10) ethanol	5.128	31	228010	22.337	ppbV #	78
11) vinyl bromide	5.380	106	46713	4.635	ppbV	99
12) acrolein	5.503	56	24929	4.546	ppbV #	93
13) acetone	5.643	43	274815	15.473	ppbV #	69
14) trichlorofluoromethane	5.837	101	91604	5.770	ppbV	98
15) isopropyl alcohol	5.927	45	170510	6.699	ppbV #	92
16) acrylonitrile	6.157	53	57954	5.257	ppbV	99
17) 1,1-dichloroethene	6.528	61	99444	4.917	ppbV	99
18) tertiary butyl alcohol	6.594	59	112600	4.530	ppbV #	90
19) methylene chloride	6.672	49	82084	4.887	ppbV	84
20) 3-chloropropene	6.798	41	84843	3.526	ppbV #	92
21) carbon disulfide	6.978	76	187972	5.565	ppbV #	90
22) Freon 113	6.972	101	115095	4.907	ppbV	91
23) trans-1,2-dichloroethene	7.717	61	96422	4.861	ppbV	94
24) 1,1-dichloroethane	7.942	63	123164	4.594	ppbV	99

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540785_Ev2.D
Acq On : 20 Nov 2023 11:42 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:09:30 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Nov 10 11:21:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.008	73	152095	4.599	ppbV		94
26) vinyl acetate	8.117	43	115667	3.416	ppbV	#	90
27) 2-butanone	8.383	43	131133	3.525	ppbV	#	86
28) cis-1,2-dichloroethene	8.883	61	95432	4.986	ppbV		99
29) Ethyl Acetate	9.150	61	24260	4.679	ppbV	#	30
30) chloroform	9.225	83	131932	5.994	ppbV	#	95
31) Tetrahydrofuran	9.658	42	81651	3.464	ppbV	#	85
32) 1,2-dichloroethane	10.050	62	75067	4.916	ppbV		97
34) hexane	9.133	57	130932	4.522	ppbV	#	45
36) 1,1,1-trichloroethane	10.342	97	98437	4.595	ppbV		98
37) benzene	10.867	78	251837	4.711	ppbV		99
38) carbon tetrachloride	11.040	117	97663	5.708	ppbV		97
39) cyclohexane	11.187	56	141844M3	4.584	ppbV		
40) Dibromomethane	11.780	93	71130	4.338	ppbV	#	90
41) 1,2-dichloropropane	11.813	63	87824	3.740	ppbV		95
42) bromodichloromethane	12.040	83	126486	5.798	ppbV		97
43) 1,4-dioxane	12.087	88	54640	4.686	ppbV		97
44) trichloroethene	12.093	130	99394M6	4.746	ppbV		
45) 2,2,4-trimethylpentane	12.140	57	440210	4.581	ppbV	#	86
46) heptane	12.453	43	144223	3.266	ppbV	#	78
47) cis-1,3-dichloropropene	13.108	75	118248	4.810	ppbV	#	86
48) 4-methyl-2-pentanone	13.142	43	164688	3.230	ppbV	#	80
49) trans-1,3-dichloropropene	13.733	75	94132	4.830	ppbV	#	86
50) 1,1,2-trichloroethane	13.933	97	87812	4.351	ppbV		92
52) toluene	14.242	91	288243	4.691	ppbV		98
54) 2-hexanone	14.525	43	152158	3.236	ppbV	#	75
55) dibromochloromethane	14.692	129	110575	5.802	ppbV		99
56) 1,2-dibromoethane	14.942	107	133740	4.996	ppbV		99
57) tetrachloroethene	15.400	166	111198	5.082	ppbV		94
58) 1,1,1,2-tetrachloroethane	16.033	131	90907	4.847	ppbV		98
59) chlorobenzene	16.050	112	232203	5.071	ppbV		94
60) ethylbenzene	16.400	91	373720	4.554	ppbV		93
61) m+p-xylene	16.567	91	604529	9.406	ppbV		95
62) bromoform	16.633	173	90339	6.411	ppbV		98
63) styrene	16.883	104	239939	5.132	ppbV		98
64) 1,1,2,2-tetrachloroethane	16.975	83	236538	5.156	ppbV		99
65) o-xylene	16.983	91	305338	4.704	ppbV		93
66) 1,2,3-Trichloropropane	17.092	75	162525	4.693	ppbV	#	91
68) isopropylbenzene	17.500	105	370344	4.753	ppbV		95
69) Bromobenzene	17.575	77	215584	4.740	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540785_Ev2.D
Acq On : 20 Nov 2023 11:42 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:09:30 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Nov 10 11:21:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

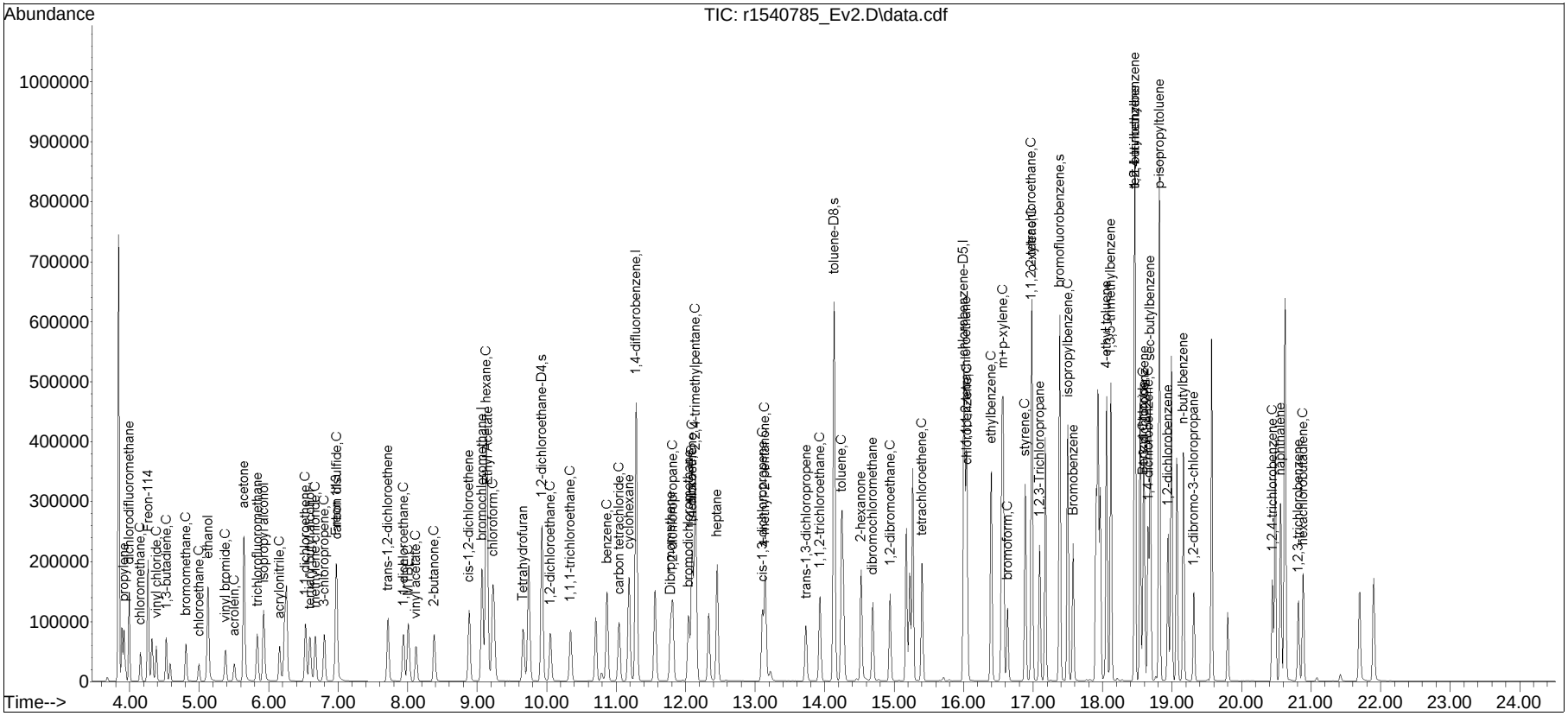
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	18.058	105	398226	4.996	ppbV		96
71) 1,3,5-trimethylbenzene	18.117	105	397863	5.569	ppbV		93
72) tert-butylbenzene	18.467	119	371602	5.235	ppbV		98
73) 1,2,4-trimethylbenzene	18.467	105	360874	5.247	ppbV		92
74) Benzyl Chloride	18.583	91	192775	4.691	ppbV		96
75) 1,3-dichlorobenzene	18.600	146	245549M3	5.557	ppbV		
76) 1,4-dichlorobenzene	18.658	146	243337	5.567	ppbV		97
77) sec-butylbenzene	18.683	105	488413	4.881	ppbV		98
78) p-isopropyltoluene	18.817	119	425959	5.436	ppbV		99
79) 1,2-dichlorobenzene	18.942	146	229744	5.341	ppbV		96
80) n-butylbenzene	19.158	91	397597	4.773	ppbV		97
81) 1,2-dibromo-3-chloropr...	19.308	75	80983	5.823	ppbV	#	80
82) 1,2,4-trichlorobenzene	20.442	180	173052	6.351	ppbV		98
83) naphthalene	20.558	128	454871	4.528	ppbV		99
84) 1,2,3-trichlorobenzene	20.817	180	143391	6.035	ppbV		95
85) hexachlorobutadiene	20.883	225	146433	6.411	ppbV		98

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540785_Ev2.D
Acq On : 20 Nov 2023 11:42 PM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:09:30 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Nov 10 11:21:53 2023
Response via : Initial Calibration

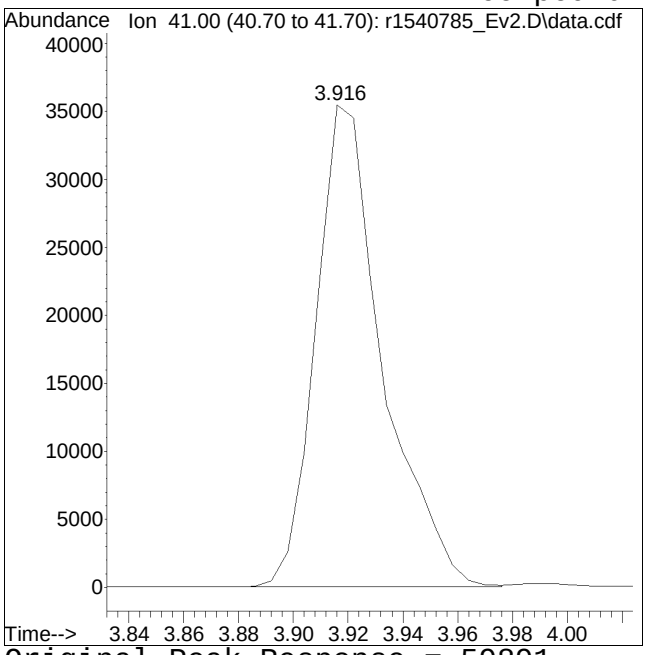


Manual Integration Report

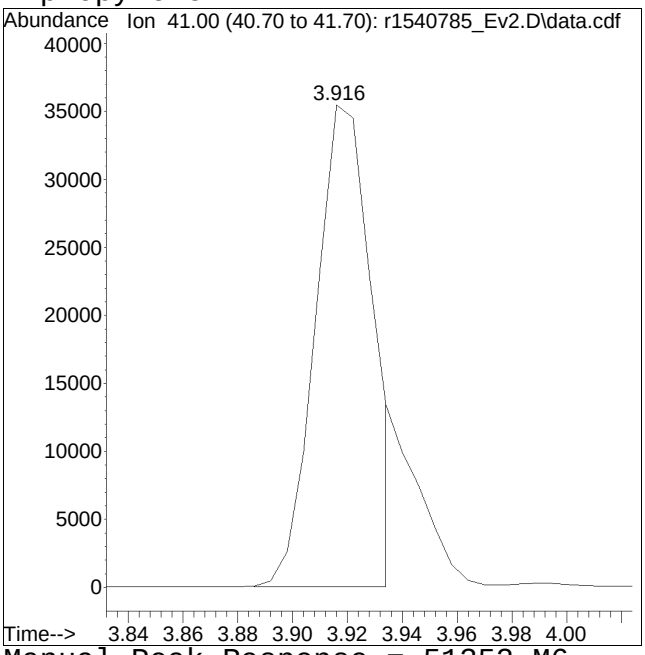
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540785_Ev2.D
Date Inj'd : 11/20/2020 0:1: 2
Sample : ITO15-SIMSTD5.0

Method : TSIM15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 10:09 am

Compound #2: propylene



Original Peak Response = 59891



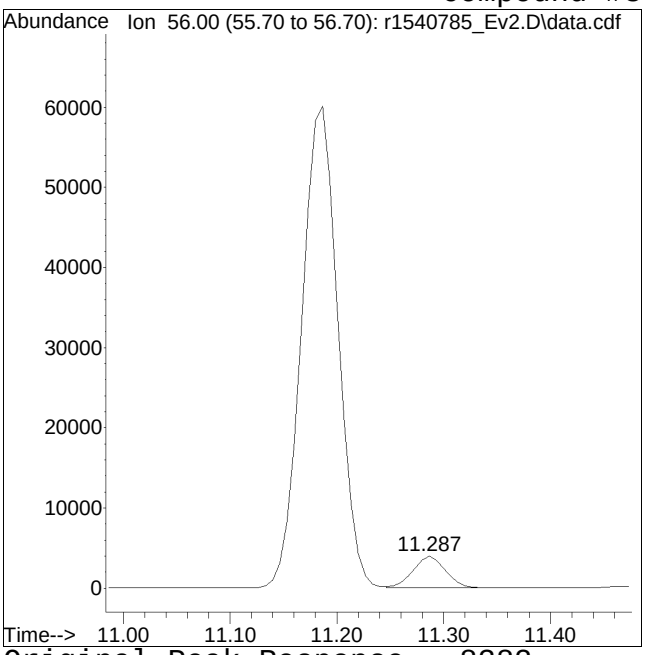
Manual Peak Response = 51352 M6

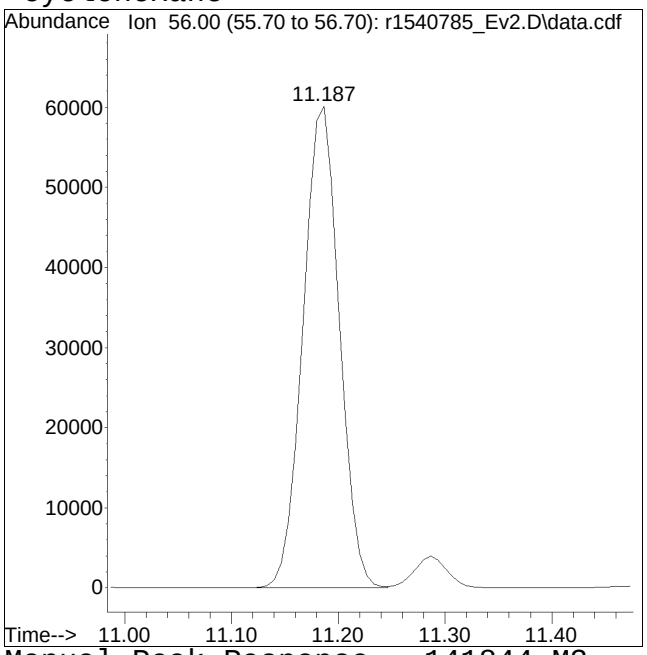
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540785_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 11/21/2023 10:09 am

Compound #39: cyclohexane





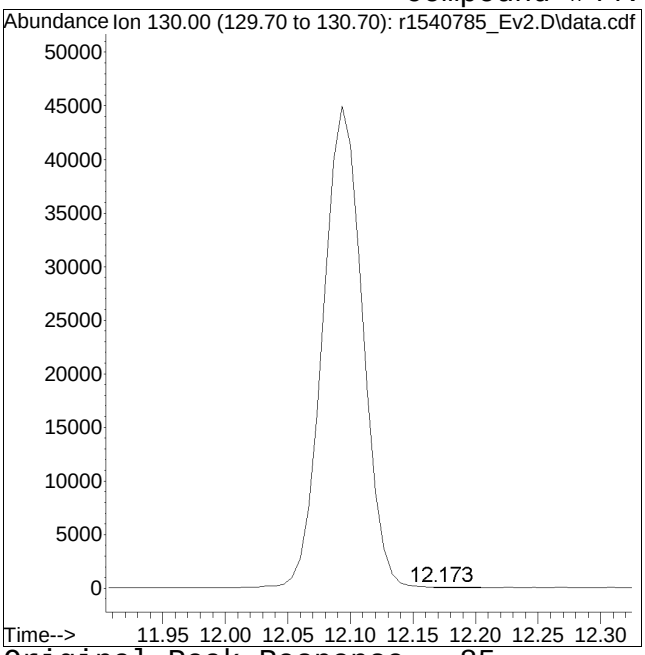
Original Peak Response = 8382 Manual Peak Response = 141844 M3

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

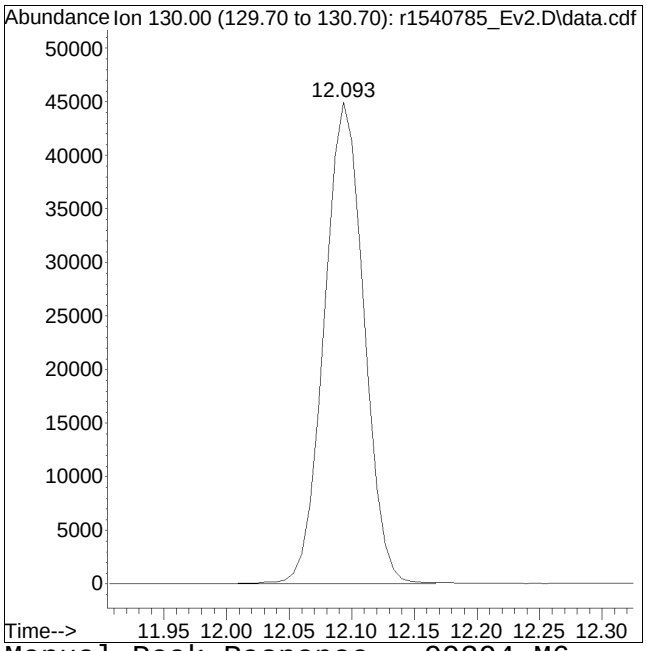
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540785_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 11/21/2023 10:09 am

Compound #44: trichloroethene



Original Peak Response = 85



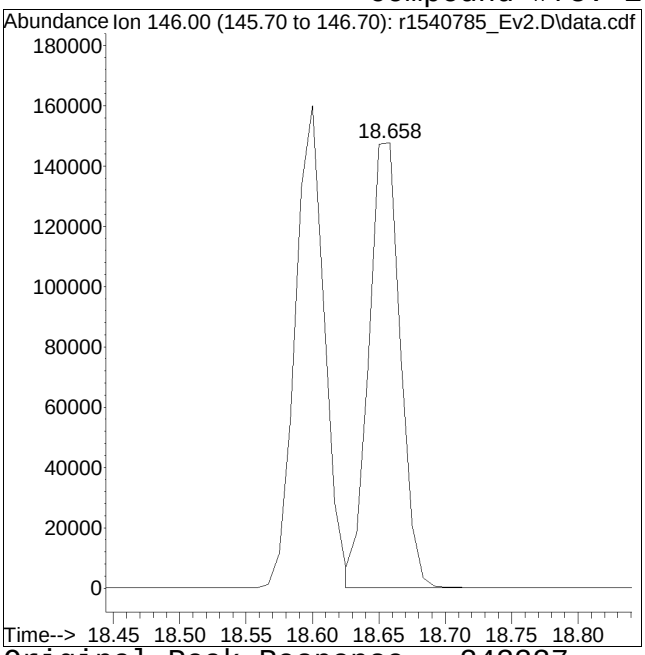
Manual Peak Response = 99394 M6

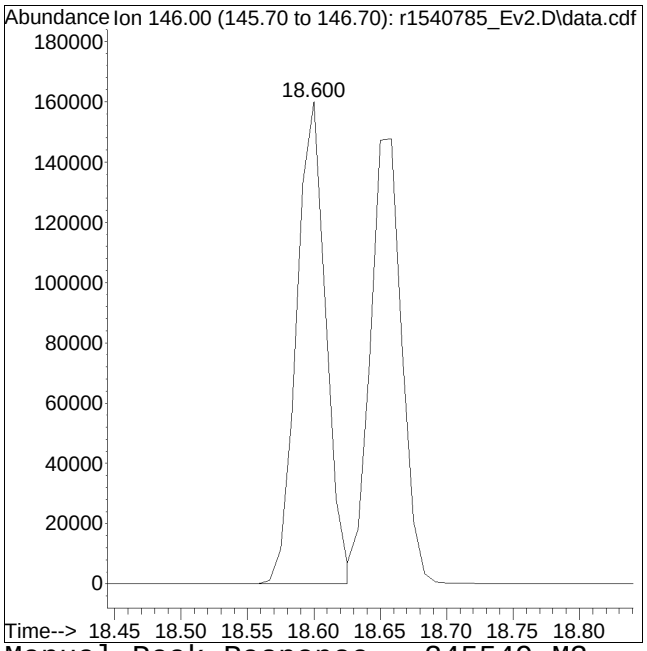
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540785_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/20/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 11/21/2023 10:09 am

Compound #75: 1,3-dichlorobenzene





Original Peak Response = 243337 Manual Peak Response = 245549 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540786_Ev2.D
Acq On : 21 Nov 2023 12:23 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD010
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:58 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.067	49	211109	10.000	ppbV	0.00
Standard Area = 207652			Recovery = 101.66%			
33) 1,4-difluorobenzene	11.287	114	608786	10.000	ppbV	0.00
Standard Area = 601845			Recovery = 101.15%			
51) chlorobenzene-D5	16.008	54	102664	10.000	ppbV	0.00
Standard Area = 99919			Recovery = 102.75%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	224310	8.740	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.40%			
53) toluene-D8	14.133	98	730928	8.906	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.06%			
67) bromofluorobenzene	17.383	95	481139	8.961	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.61%			
Target Compounds						Qvalue
2) propylene	3.916	41	105912M6	7.634	ppbV	
3) dichlorodifluoromethane	3.994	85	245029	11.625	ppbV	100
4) chloromethane	4.156	50	92277	6.824	ppbV	99
5) Freon-114	4.264	85	246402	9.463	ppbV	97
6) vinyl chloride	4.384	62	134721	10.295	ppbV	99
7) 1,3-butadiene	4.528	54	89679	8.605	ppbV	96
8) bromomethane	4.810	94	112371	10.919	ppbV	99
9) chloroethane	4.996	64	62577	9.713	ppbV	97
10) ethanol	5.128	31	420467	39.503	ppbV	99
11) vinyl bromide	5.380	106	95677	9.381	ppbV	99
12) acrolein	5.503	56	51142	9.281	ppbV	99
13) acetone	5.640	43	543796	31.691	ppbV	99
14) trichlorofluoromethane	5.837	101	182403	11.053	ppbV	100
15) isopropyl alcohol	5.923	45	344585	14.157	ppbV	100
16) acrylonitrile	6.157	53	106800	9.467	ppbV	96
17) 1,1-dichloroethene	6.528	61	208618	10.160	ppbV	100
18) tertiary butyl alcohol	6.588	59	237188	9.528	ppbV	98
19) methylene chloride	6.672	49	164290	9.598	ppbV	100
20) 3-chloropropene	6.798	41	173329	7.408	ppbV	100
21) carbon disulfide	6.978	76	382139	10.914	ppbV	99
22) Freon 113	6.972	101	231906	9.693	ppbV	99
23) trans-1,2-dichloroethene	7.717	61	196999	9.793	ppbV	99
24) 1,1-dichloroethane	7.942	63	249078	9.194	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540786_Ev2.D
Acq On : 21 Nov 2023 12:23 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD010
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:58 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.008	73	307109	9.151	ppbV		99
26) vinyl acetate	8.117	43	249522	7.530	ppbV		100
27) 2-butanone	8.375	43	268549	7.357	ppbV		98
28) cis-1,2-dichloroethene	8.883	61	194814	10.027	ppbV		100
29) Ethyl Acetate	9.150	61	50462	9.640	ppbV		89
30) chloroform	9.225	83	264674	11.573	ppbV		99
31) Tetrahydrofuran	9.658	42	166742	7.227	ppbV		98
32) 1,2-dichloroethane	10.058	62	150590	9.672	ppbV		98
34) hexane	9.133	57	265116	9.122	ppbV		95
36) 1,1,1-trichloroethane	10.342	97	201320	9.340	ppbV		99
37) benzene	10.867	78	506700	9.381	ppbV		99
38) carbon tetrachloride	11.040	117	201952	11.522	ppbV		97
39) cyclohexane	11.187	56	287231	9.218	ppbV		99
40) Dibromomethane	11.780	93	144120	8.777	ppbV	#	100
41) 1,2-dichloropropane	11.813	63	178734	7.650	ppbV		97
42) bromodichloromethane	12.040	83	258754	11.590	ppbV		98
43) 1,4-dioxane	12.080	88	113679	9.674	ppbV		99
44) trichloroethene	12.093	130	202148	9.547	ppbV		100
45) 2,2,4-trimethylpentane	12.140	57	871178	8.994	ppbV		99
46) heptane	12.453	43	290204	6.779	ppbV		99
47) cis-1,3-dichloropropene	13.108	75	242945	9.846	ppbV		99
48) 4-methyl-2-pentanone	13.142	43	331936	6.810	ppbV		98
49) trans-1,3-dichloropropene	13.733	75	196524	10.045	ppbV		100
50) 1,1,2-trichloroethane	13.933	97	179461	8.877	ppbV		100
52) toluene	14.242	91	587201	9.336	ppbV		99
54) 2-hexanone	14.517	43	311523	6.757	ppbV		98
55) dibromochloromethane	14.692	129	234397	11.869	ppbV		100
56) 1,2-dibromoethane	14.942	107	272563	9.921	ppbV		100
57) tetrachloroethene	15.400	166	223038	9.860	ppbV		98
58) 1,1,1,2-tetrachloroethane	16.033	131	188564	9.809	ppbV		99
59) chlorobenzene	16.050	112	467878	9.898	ppbV		100
60) ethylbenzene	16.400	91	761462	9.076	ppbV		99
61) m+p-xylene	16.567	91	1227579	18.646	ppbV		100
62) bromoform	16.633	173	196961	13.382	ppbV		98
63) styrene	16.883	104	491492	10.220	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.983	83	483435	10.235	ppbV		99
65) o-xylene	16.983	91	621902	9.358	ppbV		100
66) 1,2,3-Trichloropropane	17.092	75	326062	9.219	ppbV		100
68) isopropylbenzene	17.500	105	744757	9.333	ppbV		99
69) Bromobenzene	17.575	77	435599	9.355	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540786_Ev2.D
Acq On : 21 Nov 2023 12:23 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD010
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:58 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

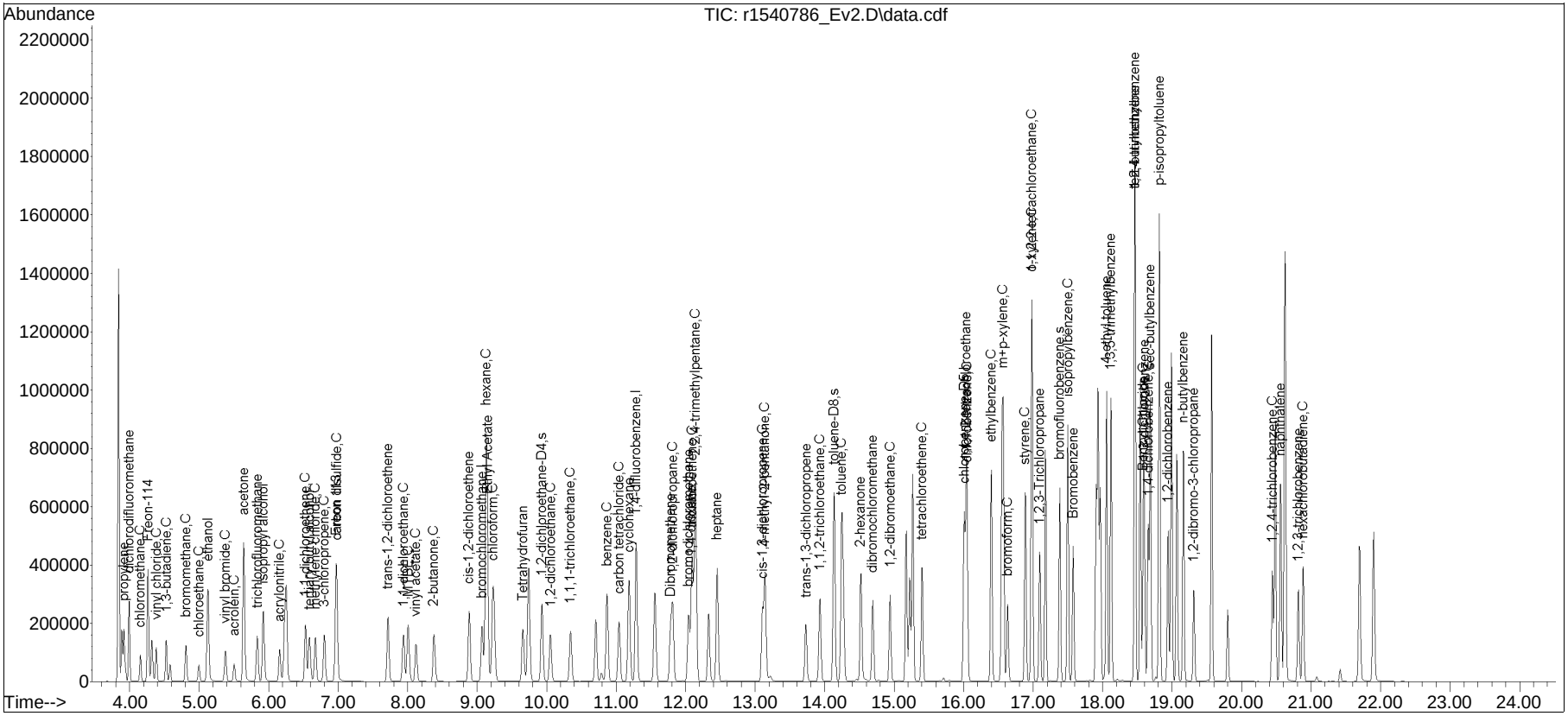
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	803050	9.803	ppbV	98
71) 1,3,5-trimethylbenzene	18.117	105	714102	9.586	ppbV	99
72) tert-butylbenzene	18.467	119	752866	10.262	ppbV	99
73) 1,2,4-trimethylbenzene	18.467	105	725422	10.236	ppbV	97
74) Benzyl Chloride	18.583	91	440334	10.572	ppbV	100
75) 1,3-dichlorobenzene	18.600	146	502280	10.991	ppbV	99
76) 1,4-dichlorobenzene	18.658	146	506083	11.199	ppbV	100
77) sec-butylbenzene	18.683	105	986315	9.606	ppbV	99
78) p-isopropyltoluene	18.817	119	773257	9.535	ppbV	96
79) 1,2-dichlorobenzene	18.942	146	482018	10.875	ppbV	99
80) n-butylbenzene	19.158	91	829986	9.788	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.308	75	168468	11.831	ppbV	95
82) 1,2,4-trichlorobenzene	20.442	180	404277	14.215	ppbV	98
83) naphthalene	20.558	128	1055244	10.205	ppbV	99
84) 1,2,3-trichlorobenzene	20.817	180	339966	13.732	ppbV	99
85) hexachlorobutadiene	20.883	225	328484	13.611	ppbV	98

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540786_Ev2.D
Acq On : 21 Nov 2023 12:23 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD010
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:13:58 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

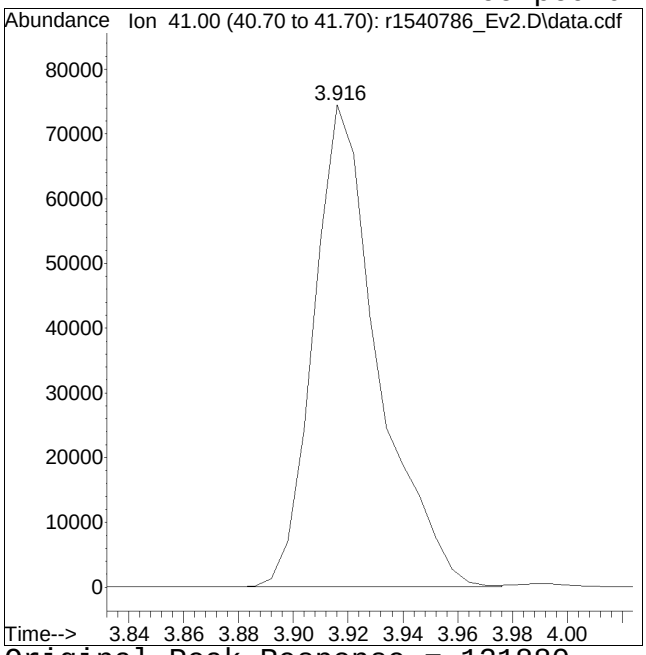


Manual Integration Report

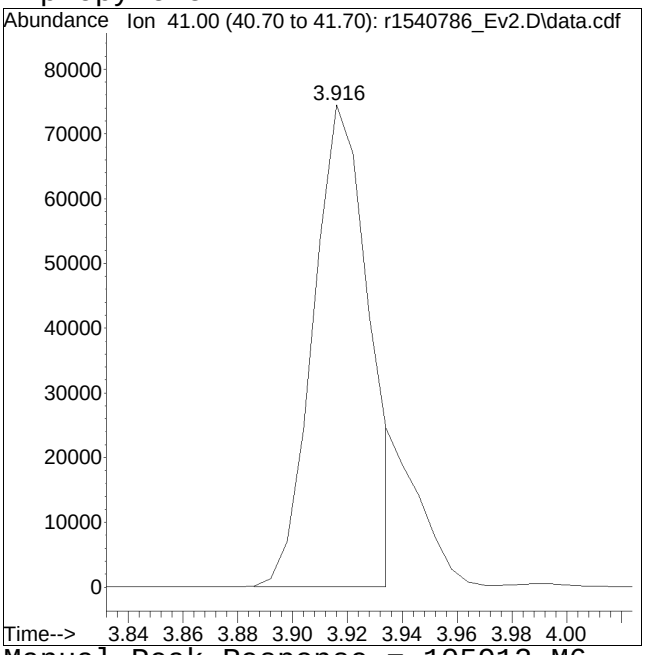
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540786_Ev2.D
Date Inj'd : 11/21/2020 0:2: 3
Sample : ITO15-SIMSTD010

Method : TSIM15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 10:13 am

Compound #2: propylene



Original Peak Response = 121880



Manual Peak Response = 105912 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540787_Ev2.D
Acq On : 21 Nov 2023 1:00 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD020
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:13 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.075	49	210766	10.000	ppbV	0.00
Standard Area = 207652			Recovery = 101.50%			
33) 1,4-difluorobenzene	11.293	114	618298	10.000	ppbV	0.00
Standard Area = 601845			Recovery = 102.73%			
51) chlorobenzene-D5	16.000	54	101866	10.000	ppbV	0.00
Standard Area = 99919			Recovery = 101.95%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.933	65	221957	8.515	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.15%			
53) toluene-D8	14.133	98	743995	9.136	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.36%			
67) bromofluorobenzene	17.383	95	506182	9.501	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.01%			
Target Compounds						Qvalue
2) propylene	3.916	41	203485M6	14.691	ppbV	
3) dichlorodifluoromethane	3.988	85	431927	20.526	ppbV	100
4) chloromethane	4.150	50	161995	11.999	ppbV	98
5) Freon-114	4.258	85	423374	16.287	ppbV	97
6) vinyl chloride	4.378	62	250236	19.154	ppbV	99
7) 1,3-butadiene	4.522	54	163602	15.724	ppbV #	81
8) bromomethane	4.810	94	207265	20.173	ppbV	97
9) chloroethane	4.996	64	121032	18.817	ppbV	93
10) ethanol	5.122	31	810398	76.261	ppbV	97
11) vinyl bromide	5.377	106	193833	19.037	ppbV	99
12) acrolein	5.503	56	99139	18.021	ppbV	98
13) acetone	5.640	43	1040211	60.720	ppbV	100
14) trichlorofluoromethane	5.837	101	340754	20.682	ppbV	98
15) isopropyl alcohol	5.920	45	684722	28.177	ppbV	100
16) acrylonitrile	6.160	53	213240	18.932	ppbV	97
17) 1,1-dichloroethene	6.528	61	406277	19.818	ppbV	98
18) tertiary butyl alcohol	6.582	59	509323	20.493	ppbV	96
19) methylene chloride	6.672	49	307669	18.005	ppbV	97
20) 3-chloropropene	6.804	41	353231	15.122	ppbV	98
21) carbon disulfide	6.978	76	774045	22.144	ppbV	98
22) Freon 113	6.972	101	450416	18.857	ppbV	99
23) trans-1,2-dichloroethene	7.717	61	406532	20.241	ppbV	99
24) 1,1-dichloroethane	7.942	63	488958	18.078	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540787_Ev2.D
Acq On : 21 Nov 2023 1:00 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD020
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:13 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.008	73	615996	18.384	ppbV		99
26) vinyl acetate	8.117	43	527843	15.954	ppbV		99
27) 2-butanone	8.375	43	538405	14.773	ppbV		99
28) cis-1,2-dichloroethene	8.883	61	385213	19.859	ppbV		99
29) Ethyl Acetate	9.150	61	105483	20.183	ppbV		82
30) chloroform	9.225	83	498986	21.854	ppbV		100
31) Tetrahydrofuran	9.650	42	340014	14.762	ppbV		99
32) 1,2-dichloroethane	10.058	62	286589	18.436	ppbV		98
34) hexane	9.133	57	538283	18.236	ppbV		100
36) 1,1,1-trichloroethane	10.350	97	390953	17.859	ppbV		94
37) benzene	10.867	78	972124	17.721	ppbV		99
38) carbon tetrachloride	11.040	117	383972	21.569	ppbV		98
39) cyclohexane	11.187	56	590934	18.674	ppbV		99
40) Dibromomethane	11.787	93	295562	17.723	ppbV	#	98
41) 1,2-dichloropropane	11.813	63	354204	14.926	ppbV		98
42) bromodichloromethane	12.047	83	521108	22.983	ppbV		97
43) 1,4-dioxane	12.080	88	241464	20.233	ppbV		97
44) trichloroethene	12.093	130	400394	18.619	ppbV		99
45) 2,2,4-trimethylpentane	12.140	57	1762069	17.913	ppbV		99
46) heptane	12.453	43	575945	13.246	ppbV		98
47) cis-1,3-dichloropropene	13.108	75	472228	18.844	ppbV		99
48) 4-methyl-2-pentanone	13.142	43	663225	13.396	ppbV		95
49) trans-1,3-dichloropropene	13.733	75	382851	19.268	ppbV		99
50) 1,1,2-trichloroethane	13.933	97	353861	17.234	ppbV		98
52) toluene	14.250	91	1156012	18.524	ppbV		100
54) 2-hexanone	14.517	43	621262	13.580	ppbV		98
55) dibromochloromethane	14.692	129	495936	25.309	ppbV		100
56) 1,2-dibromoethane	14.942	107	526708	19.321	ppbV		98
57) tetrachloroethene	15.400	166	442407	19.710	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.033	131	388492	20.367	ppbV		99
59) chlorobenzene	16.050	112	901286	19.216	ppbV		99
60) ethylbenzene	16.400	91	1496230	17.974	ppbV		98
61) m+p-xylene	16.558	91	2382133	36.466	ppbV		99
62) bromoform	16.633	173	429174	29.388	ppbV		98
63) styrene	16.883	104	961187	20.143	ppbV		98
64) 1,1,2,2-tetrachloroethane	16.975	83	914209	19.507	ppbV		99
65) o-xylene	16.983	91	1197674	18.163	ppbV		99
66) 1,2,3-Trichloropropane	17.092	75	640860	18.262	ppbV		99
68) isopropylbenzene	17.500	105	1492707	18.852	ppbV		98
69) Bromobenzene	17.575	77	851261	18.425	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540787_Ev2.D
Acq On : 21 Nov 2023 1:00 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD020
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:13 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

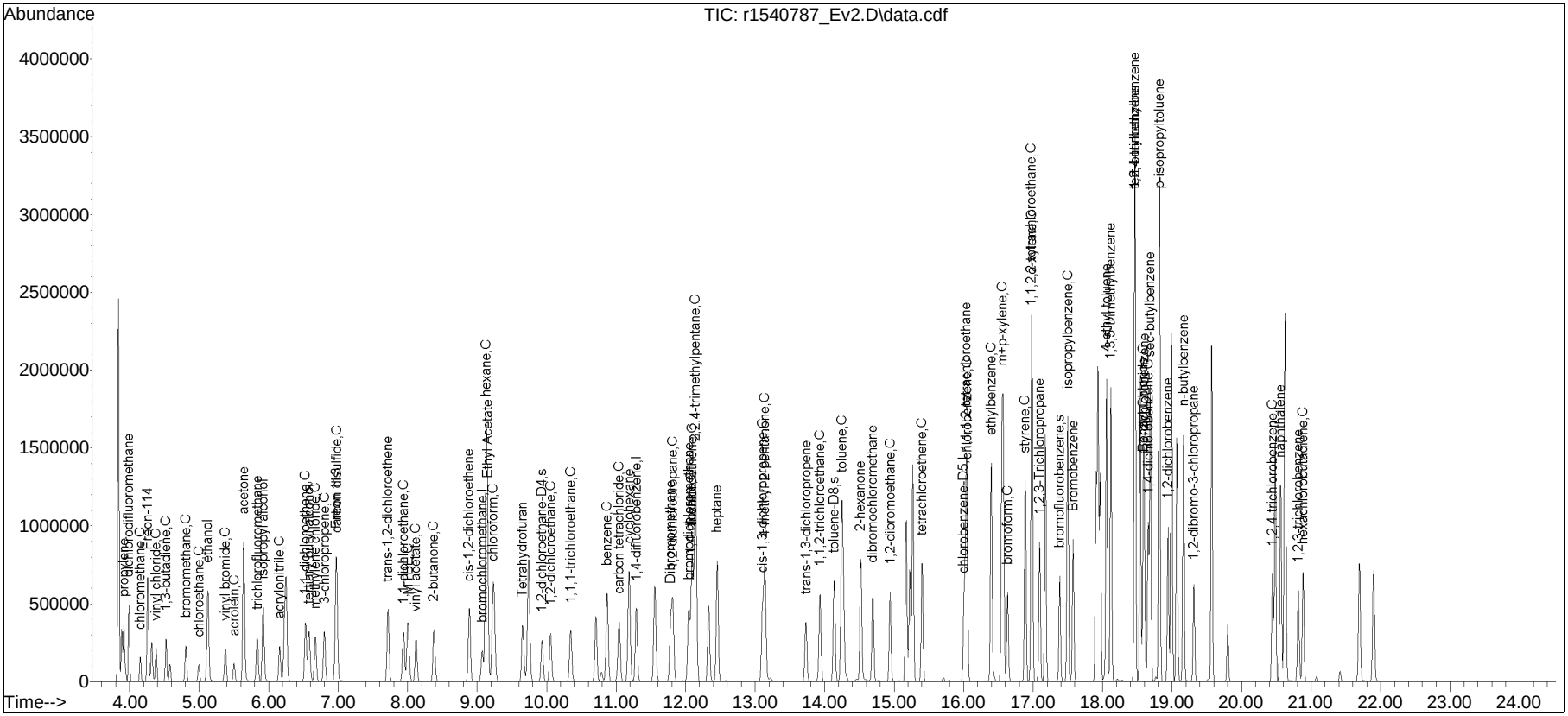
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	18.058	105	1612257	19.835	ppbV		98
71) 1,3,5-trimethylbenzene	18.117	105	1352658	18.301	ppbV		98
72) tert-butylbenzene	18.467	119	1442818	19.821	ppbV		95
73) 1,2,4-trimethylbenzene	18.467	105	1357779	19.310	ppbV		98
74) Benzyl Chloride	18.583	91	960389	23.238	ppbV		98
75) 1,3-dichlorobenzene	18.600	146	963988	21.260	ppbV		99
76) 1,4-dichlorobenzene	18.658	146	969753	21.628	ppbV		98
77) sec-butylbenzene	18.683	105	1950057	19.142	ppbV		98
78) p-isopropyltoluene	18.817	119	1650360	20.510	ppbV		97
79) 1,2-dichlorobenzene	18.942	146	919253	20.902	ppbV		98
80) n-butylbenzene	19.167	91	1651750	19.632	ppbV	#	89
81) 1,2-dibromo-3-chloropr...	19.308	75	329320	23.309	ppbV		91
82) 1,2,4-trichlorobenzene	20.442	180	753890	26.715	ppbV		97
83) naphthalene	20.558	128	2012167	19.611	ppbV		100
84) 1,2,3-trichlorobenzene	20.817	180	645451	26.275	ppbV		97
85) hexachlorobutadiene	20.883	225	589982	24.638	ppbV		96

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540787_Ev2.D
Acq On : 21 Nov 2023 1:00 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD020
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

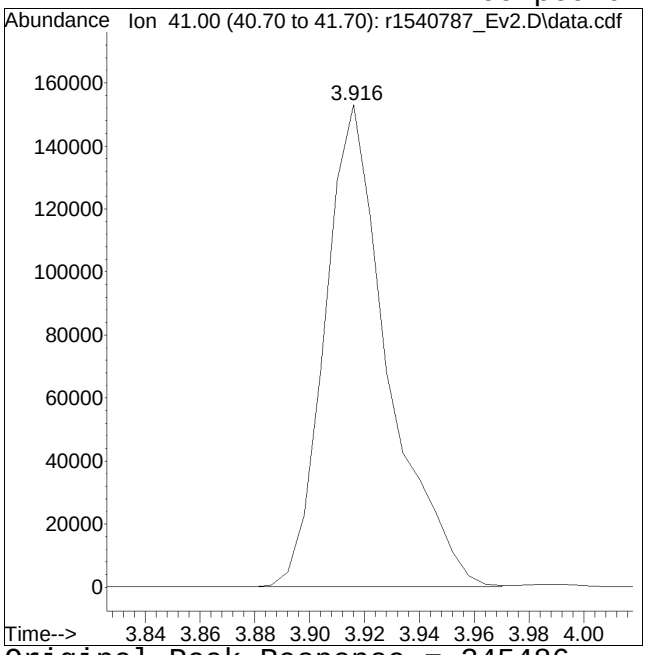
Quant Time: Nov 21 10:14:13 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration



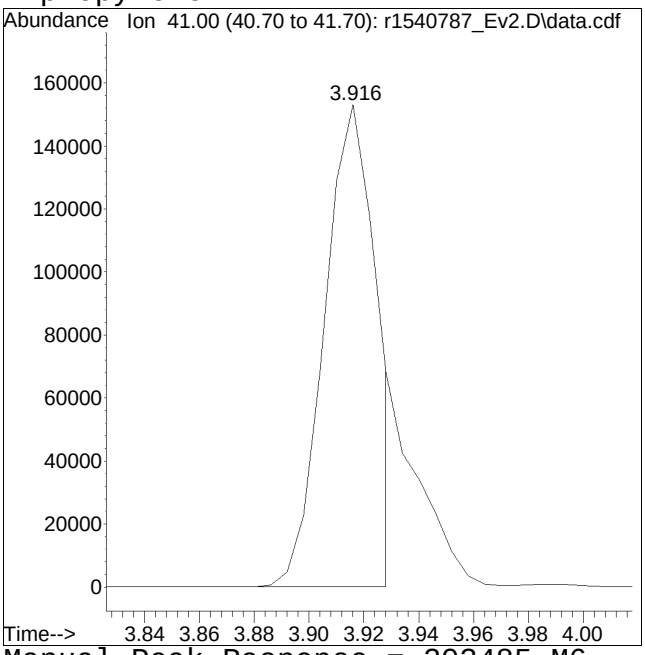
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1540787_Ev2.D Operator : AIRLAB15:RAY
Date Inj'd : 11/21/2020 0:1: 0 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 11/21/2023 10:14 am

Compound #2: propylene



Original Peak Response = 245486



Manual Peak Response = 203485 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540788_Ev2.D
Acq On : 21 Nov 2023 1:39 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD050
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:28 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.075	49	203255	10.000	ppbV	#	0.00
Standard Area = 207652			Recovery = 97.88%				
33) 1,4-difluorobenzene	11.293	114	638424	10.000	ppbV		0.00
Standard Area = 601845			Recovery = 106.08%				
51) chlorobenzene-D5	16.008	54	95611	10.000	ppbV	#	0.00
Standard Area = 99919			Recovery = 95.69%				
System Monitoring Compounds							
35) 1,2-dichloroethane-D4	9.933	65	218110	8.104	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 81.04%				
53) toluene-D8	14.142	98	805075	10.533	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.33%				
67) bromofluorobenzene	17.383	95	542203	10.843	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.43%				
Target Compounds							Qvalue
2) propylene	3.916	41	523683M6	39.206	ppbV		
3) dichlorodifluoromethane	3.994	85	998775	49.217	ppbV		99
4) chloromethane	4.156	50	375377	28.833	ppbV		98
5) Freon-114	4.264	85	905209	36.109	ppbV		92
6) vinyl chloride	4.384	62	583943	46.349	ppbV		97
7) 1,3-butadiene	4.528	54	361311	36.010	ppbV	#	74
8) bromomethane	4.810	94	468993	47.333	ppbV		96
9) chloroethane	4.996	64	291035	46.920	ppbV		92
10) ethanol	5.134	31	1713390	167.193	ppbV		89
11) vinyl bromide	5.380	106	476724	48.550	ppbV		98
12) acrolein	5.503	56	223079	42.048	ppbV		97
13) acetone	5.643	43	2409375	145.839	ppbV		92
14) trichlorofluoromethane	5.837	101	785438	49.433	ppbV		100
15) isopropyl alcohol	5.927	45	1595635	68.087	ppbV		99
16) acrylonitrile	6.160	53	611508	56.298	ppbV		96
17) 1,1-dichloroethene	6.534	61	1008522	51.014	ppbV		92
18) tertiary butyl alcohol	6.582	59	1288417	53.757	ppbV	#	93
19) methylene chloride	6.672	49	708438	42.989	ppbV		92
20) 3-chloropropene	6.804	41	888096	39.425	ppbV		97
21) carbon disulfide	6.978	76	1812866	53.779	ppbV		97
22) Freon 113	6.972	101	1140684	49.521	ppbV		96
23) trans-1,2-dichloroethene	7.717	61	1027547	53.052	ppbV		97
24) 1,1-dichloroethane	7.942	63	1248433	47.863	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540788_Ev2.D
Acq On : 21 Nov 2023 1:39 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD050
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:28 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.008	73	1483841	45.922	ppbV		97
26) vinyl acetate	8.125	43	1317213	41.284	ppbV		95
27) 2-butanone	8.375	43	1306830	37.182	ppbV		99
28) cis-1,2-dichloroethene	8.892	61	970496	51.881	ppbV		89
29) Ethyl Acetate	9.150	61	271589	53.886	ppbV		66
30) chloroform	9.233	83	1125548	51.118	ppbV		98
31) Tetrahydrofuran	9.650	42	847397	38.149	ppbV		97
32) 1,2-dichloroethane	10.058	62	680926	45.423	ppbV		96
34) hexane	9.133	57	1253902	41.142	ppbV		91
36) 1,1,1-trichloroethane	10.350	97	951750	42.106	ppbV		94
37) benzene	10.873	78	2302408	40.648	ppbV		98
38) carbon tetrachloride	11.047	117	890626	48.453	ppbV		98
39) cyclohexane	11.187	56	1427543	43.689	ppbV		99
40) Dibromomethane	11.787	93	750874	43.605	ppbV	#	95
41) 1,2-dichloropropane	11.820	63	911185	37.187	ppbV	#	95
42) bromodichloromethane	12.047	83	1195159	51.050	ppbV		97
43) 1,4-dioxane	12.073	88	604783	49.078	ppbV		98
44) trichloroethene	12.100	130	1020758	45.969	ppbV		98
45) 2,2,4-trimethylpentane	12.140	57	4182485	41.177	ppbV		98
46) heptane	12.453	43	1363494	30.371	ppbV		96
47) cis-1,3-dichloropropene	13.108	75	1143331	44.186	ppbV		99
48) 4-methyl-2-pentanone	13.142	43	1576827	30.846	ppbV	#	90
49) trans-1,3-dichloropropene	13.733	75	924096	45.040	ppbV		98
50) 1,1,2-trichloroethane	13.933	97	931251	43.925	ppbV		90
52) toluene	14.250	91	2853841	48.721	ppbV		99
54) 2-hexanone	14.525	43	1504685	35.042	ppbV	#	90
55) dibromochloromethane	14.692	129	1229681	66.860	ppbV		99
56) 1,2-dibromoethane	14.942	107	1304887	50.999	ppbV		98
57) tetrachloroethene	15.408	166	1088112	51.650	ppbV		96
58) 1,1,1,2-tetrachloroethane	16.033	131	947492	52.924	ppbV		99
59) chlorobenzene	16.050	112	2131101	48.410	ppbV		98
60) ethylbenzene	16.400	91	3688481	47.209	ppbV		99
61) m+p-xylene	16.567	91	5628403	91.798	ppbV		99
62) bromoform	16.633	173	1087171	79.316	ppbV		98
63) styrene	16.892	104	2379867	53.137	ppbV		93
64) 1,1,2,2-tetrachloroethane	16.983	83	1989228	45.222	ppbV		98
65) o-xylene	16.983	91	2693978	43.528	ppbV		96
66) 1,2,3-Trichloropropane	17.092	75	1490721	45.259	ppbV		98
68) isopropylbenzene	17.500	105	3542611	47.668	ppbV		97
69) Bromobenzene	17.575	77	1958018	45.152	ppbV		89

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540788_Ev2.D
Acq On : 21 Nov 2023 1:39 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD050
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:28 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

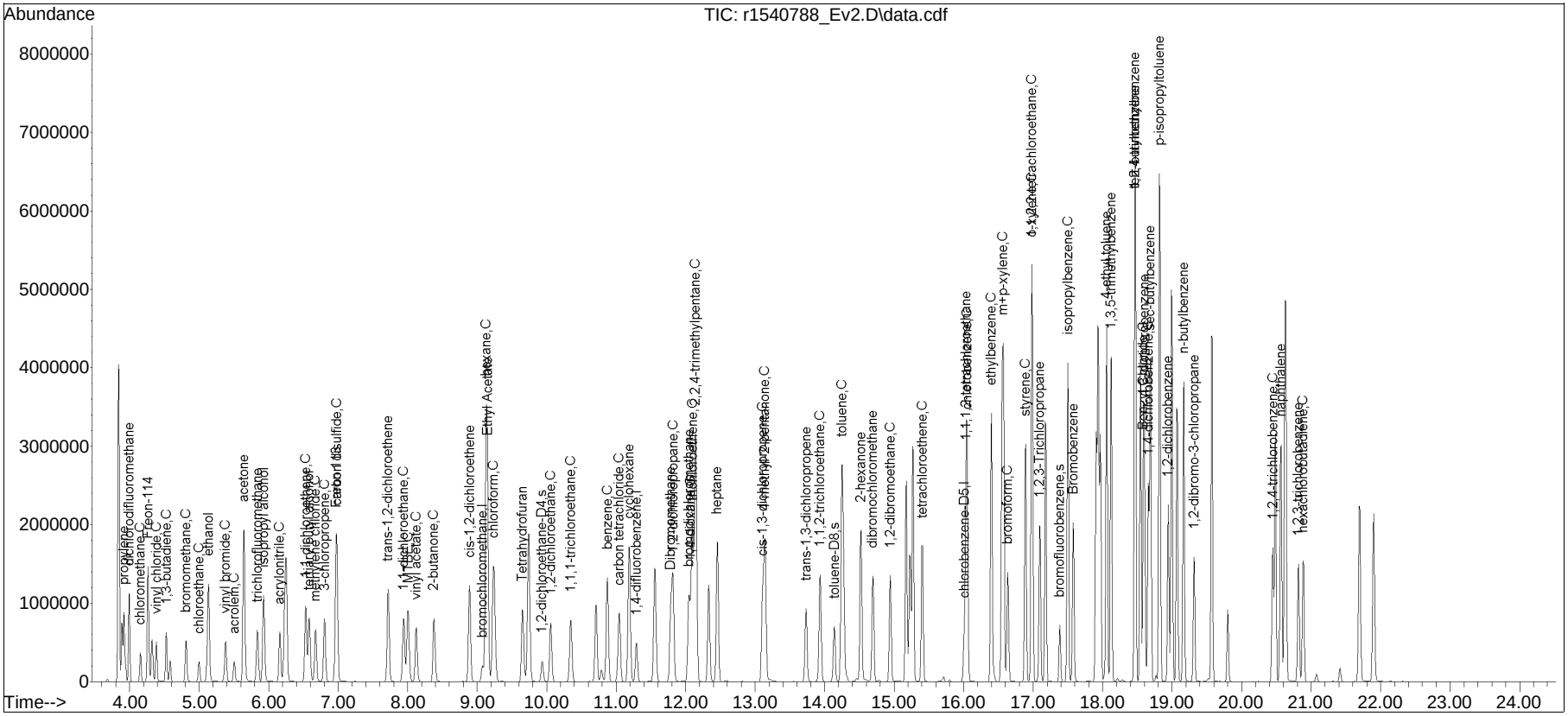
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	18.058	105	3829447	50.195	ppbV		98
71) 1,3,5-trimethylbenzene	18.125	105	3219687	46.411	ppbV		95
72) tert-butylbenzene	18.467	119	3097932	45.343	ppbV		93
73) 1,2,4-trimethylbenzene	18.467	105	2974443	45.069	ppbV		96
74) Benzyl Chloride	18.583	91	2435016	62.772	ppbV		98
75) 1,3-dichlorobenzene	18.600	146	2345522	55.113	ppbV		97
76) 1,4-dichlorobenzene	18.658	146	2301677	54.691	ppbV		98
77) sec-butylbenzene	18.683	105	4537277	47.452	ppbV		96
78) p-isopropyltoluene	18.817	119	3416279	45.233	ppbV		96
79) 1,2-dichlorobenzene	18.942	146	2213629	53.626	ppbV		98
80) n-butylbenzene	19.167	91	3830360	48.505	ppbV	#	85
81) 1,2-dibromo-3-chloropr...	19.317	75	807396	60.884	ppbV		88
82) 1,2,4-trichlorobenzene	20.450	180	1920926	72.524	ppbV		96
83) naphthalene	20.567	128	4957467	51.478	ppbV		100
84) 1,2,3-trichlorobenzene	20.817	180	1679216	72.831	ppbV		98
85) hexachlorobutadiene	20.883	225	1416820	63.039	ppbV		93

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540788_Ev2.D
Acq On : 21 Nov 2023 1:39 AM
Operator : AIRLAB15:RAY
Sample : ITO15-SIMSTD050
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 21 10:14:28 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 10:12:19 2023
Response via : Initial Calibration

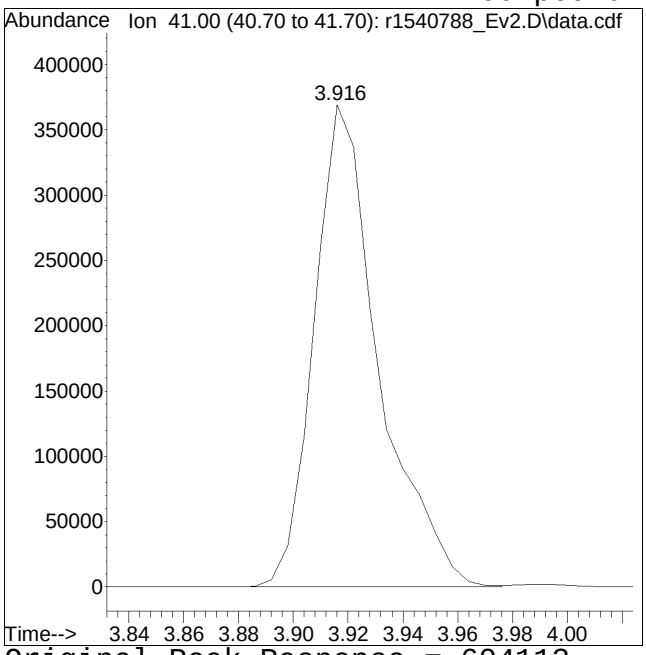


Manual Integration Report

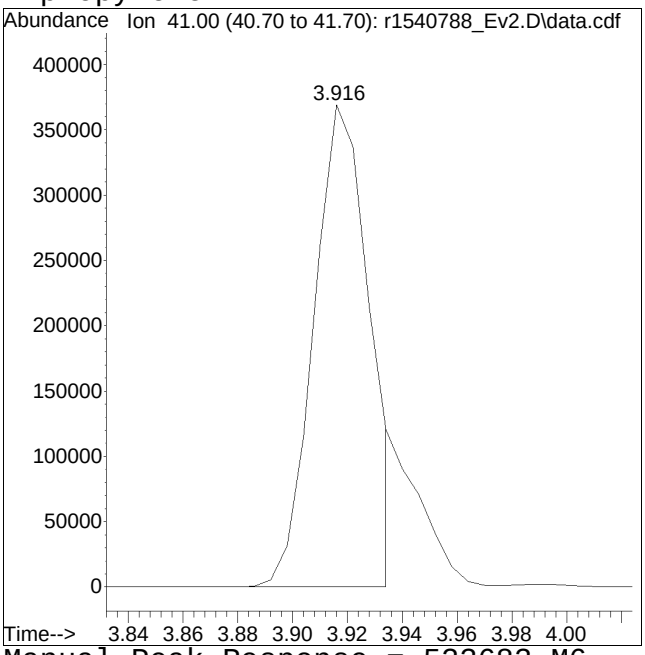
Data Path : O:\Forensics\Data\Airlab15Q
Data File : r1540788_Ev2.D
Date Inj'd : 11/21/2020 0:1: 9
Sample : ITO15-SIMSTD050

Method : TSIM15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/21/2023 10:14 am

Compound #2: propylene



Original Peak Response = 604113



Manual Peak Response = 523683 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540794_Ev2.D
Acq On : 21 Nov 2023 5:20 PM
Operator : AIRLAB15:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 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	84	0.00
2		propylene	0.539	0.648	-20.2	110	0.00
3		dichlorodifluoromethane	1.189	1.036	12.9	70	0.00
4	C	chloromethane	0.448	0.381	15.0	68	0.00
5		Freon-114	1.201	1.151	4.2	77	0.00
6	C	vinyl chloride	0.638	0.607	4.9	80	0.00
7	C	1,3-butadiene	0.427	0.392	8.2	74	0.00
8	C	bromomethane	0.547	0.508	7.1	79	0.00
9	C	chloroethane	0.300	0.322	-7.3	91	0.00
10		ethanol	0.414	0.364	12.1	69	0.00
11	C	vinyl bromide	0.469	0.507	-8.1	94	0.00
12	C	acrolein	0.252	0.206	18.3	72	0.00
13		acetone	0.543	0.614	-13.1	97	0.00
14		trichlorofluoromethane	0.881	0.856	2.8	81	0.00
15		isopropyl alcohol	0.695	0.674	3.0	86	0.00
16	C	acrylonitrile	0.520	0.382	26.5	57#	0.00
17	C	1,1-dichloroethene	0.980	1.123	-14.6	98	0.00
18		tertiary butyl alcohol	1.160	1.311	-13.0	101	0.00
19	C	methylene chloride	0.784	0.781	0.4	83	0.00
20	C	3-chloropropene	0.839	1.033	-23.1	106	0.00
21	C	carbon disulfide	1.842	1.916	-4.0	89	0.00
22		Freon 113	1.138	1.356	-19.2	102	0.00
23		trans-1,2-dichloroethene	0.943	1.107	-17.4	100	0.00
24	C	1,1-dichloroethane	1.216	1.402	-15.3	99	0.00
25	C	MTBE	1.507	1.645	-9.2	94	0.00
26	C	vinyl acetate	1.208	1.189	1.6	89	0.00
27	C	2-butanone	1.304	1.414	-8.4	94	0.00
28		cis-1,2-dichloroethene	0.936	1.076	-15.0	98	0.00
29		Ethyl Acetate	0.245	0.311	-26.9	111	0.00
30	C	chloroform	1.286	1.249	2.9	82	0.00
31		Tetrahydrofuran	0.810	0.901	-11.2	96	0.00
32	C	1,2-dichloroethane	0.733	0.728	0.7	84	0.00
33	I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.01
34	C	hexane	0.443	0.444	-0.2	99	0.00
35	s	1,2-dichloroethane-D4	0.362	0.341	5.8	90	0.00
36	C	1,1,1-trichloroethane	0.328	0.303	7.6	90	0.00
37	C	benzene	0.832	0.740	11.1	86	0.01
38	C	carbon tetrachloride	0.310	0.271	12.6	81	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540794_Ev2.D
Acq On : 21 Nov 2023 5:20 PM
Operator : AIRLAB15:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		cyclohexane	0.479	0.477	0.4	98	0.00
40		Dibromomethane	0.249	0.240	3.6	99	0.01
41	C	1,2-dichloropropane	0.301	0.304	-1.0	101	0.00
42		bromodichloromethane	0.407	0.385	5.4	89	0.00
43	C	1,4-dioxane	0.186	0.194	-4.3	104	0.00
44	C	trichloroethene	0.334	0.342	-2.4	100	0.00
45	C	2,2,4-trimethylpentane	1.476	1.502	-1.8	100	0.00
46		heptane	0.482	0.472	2.1	96	0.00
47	C	cis-1,3-dichloropropene	0.361	0.357	1.1	88	0.00
48	C	4-methyl-2-pentanone	0.540	0.530	1.9	94	0.00
49		trans-1,3-dichloropropene	0.279	0.266	4.7	83	0.00
50	C	1,1,2-trichloroethane	0.296	0.313	-5.7	104	0.00
51	I	chlorobenzene-D5	1.000	1.000	0.0	85	0.00
52	C	toluene	5.814	6.731	-15.8	99	0.00
53	s	toluene-D8	7.329	8.864	-20.9	106	0.00
54		2-hexanone	2.999	3.286	-9.6	91	0.00
55		dibromochloromethane	2.177	2.803	-28.8	107	0.00
56	C	1,2-dibromoethane	2.560	2.959	-15.6	93	0.00
57	C	tetrachloroethene	2.244	2.539	-13.1	96	0.00
58		1,1,1,2-tetrachloroethane	1.846	2.113	-14.5	98	0.00
59	C	chlorobenzene	4.619	5.058	-9.5	92	0.00
60	C	ethylbenzene	7.326	8.657	-18.2	98	0.00
61	C	m+p-xylene	5.811	6.931	-19.3	97	0.00
62	C	bromoform	1.730	2.392	-38.3#	112	0.00
63	C	styrene	4.484	5.488	-22.4	97	0.00
64	C	1,1,2,2-tetrachloroethane	4.502	5.125	-13.8	92	0.00
65	C	o-xylene	5.909	7.105	-20.2	98	0.00
66		1,2,3-Trichloropropane	3.234	3.295	-1.9	86	0.00
67	s	bromofluorobenzene	4.839	5.801	-19.9	108	0.00
68	C	isopropylbenzene	7.448	8.526	-14.5	97	0.00
69		Bromobenzene	4.285	4.442	-3.7	87	0.00
70		4-ethyl toluene	7.648	9.174	-20.0	97	0.00
71		1,3,5-trimethylbenzene	6.693	7.749	-15.8	82	0.00
72		tert-butylbenzene	7.168	8.001	-11.6	91	0.00
73		1,2,4-trimethylbenzene	6.579	7.827	-19.0	92	0.00
74	C	Benzyl Chloride	3.612	4.526	-25.3	99	0.00
75		1,3-dichlorobenzene	4.557	5.506	-20.8	95	0.00
76	C	1,4-dichlorobenzene	4.477	5.518	-23.3	96	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540794_Ev2.D
Acq On : 21 Nov 2023 5:20 PM
Operator : AIRLAB15:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77		sec-butylbenzene	9.585	10.902	-13.7	94	0.02
78		p-isopropyltoluene	8.142	9.189	-12.9	91	0.02
79		1,2-dichlorobenzene	4.275	5.242	-22.6	96	0.02
80		n-butylbenzene	7.692	9.421	-22.5	100	0.03
81		1,2-dibromo-3-chloropropane	1.408	1.668	-18.5	87	0.04
82	C	1,2,4-trichlorobenzene	2.988	3.931	-31.6#	96	0.07
83		naphthalene	8.258	10.754	-30.2#	100	0.07
84		1,2,3-trichlorobenzene	2.636	3.584	-36.0#	106	0.06
85	C	hexachlorobutadiene	2.627	3.170	-20.7	91	0.07

* 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\Airlab15\2023\11\1120SIM_I\
Data File : r1540794_Ev2.D
Acq On : 21 Nov 2023 5:20 PM
Operator : AIRLAB15:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.075	49	173794	10.000	ppbV	# 0.00
Standard Area = 207652			Recovery = 83.69%			
33) 1,4-difluorobenzene	11.300	114	584257	10.000	ppbV	0.01
Standard Area = 601845			Recovery = 97.08%			
51) chlorobenzene-D5	16.008	54	84508	10.000	ppbV	# 0.00
Standard Area = 99919			Recovery = 84.58%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.942	65	198998	9.410	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.10%			
53) toluene-D8	14.142	98	749046	12.093	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 120.93%			
67) bromofluorobenzene	17.383	95	490256	11.988	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 119.88%			
Target Compounds						Qvalue
2) propylene	3.916	41	56335M6	6.011	ppbV	
3) dichlorodifluoromethane	3.994	85	90020	4.357	ppbV	100
4) chloromethane	4.156	50	33090	4.246	ppbV	98
5) Freon-114	4.264	85	100005	4.793	ppbV	96
6) vinyl chloride	4.384	62	52759	4.758	ppbV	97
7) 1,3-butadiene	4.528	54	34078	4.597	ppbV #	66
8) bromomethane	4.810	94	44130	4.643	ppbV	95
9) chloroethane	5.002	64	27941	5.355	ppbV	92
10) ethanol	5.128	31	158357	22.005	ppbV	87
11) vinyl bromide	5.380	106	44019	5.402	ppbV	97
12) acrolein	5.510	56	17893	4.078	ppbV	96
13) acetone	5.647	43	266714	28.267	ppbV	90
14) trichlorofluoromethane	5.840	101	74360	4.858	ppbV	100
15) isopropyl alcohol	5.927	45	146506	12.128	ppbV	99
16) acrylonitrile	6.163	53	33182	3.669	ppbV	96
17) 1,1-dichloroethene	6.534	61	97594	5.732	ppbV	94
18) tertiary butyl alcohol	6.594	59	113894	5.647	ppbV #	94
19) methylene chloride	6.678	49	67892	4.982	ppbV	89
20) 3-chloropropene	6.804	41	89779	6.160	ppbV	97
21) carbon disulfide	6.984	76	166511	5.202	ppbV	98
22) Freon 113	6.978	101	117809	5.957	ppbV	95
23) trans-1,2-dichloroethene	7.725	61	96203	5.872	ppbV	94
24) 1,1-dichloroethane	7.942	63	121859	5.764	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540794_Ev2.D
Acq On : 21 Nov 2023 5:20 PM
Operator : AIRLAB15:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.017	73	142953	5.456	ppbV		97
26) vinyl acetate	8.125	43	103338	4.922	ppbV		99
27) 2-butanone	8.392	43	122848	5.419	ppbV		97
28) cis-1,2-dichloroethene	8.892	61	93532	5.752	ppbV		94
29) Ethyl Acetate	9.158	61	26989	6.345	ppbV		62
30) chloroform	9.233	83	108519	4.856	ppbV		98
31) Tetrahydrofuran	9.667	42	78295	5.562	ppbV		99
32) 1,2-dichloroethane	10.058	62	63260	4.963	ppbV		96
34) hexane	9.142	57	129620	5.005	ppbV		90
36) 1,1,1-trichloroethane	10.350	97	88557	4.623	ppbV		98
37) benzene	10.880	78	216300	4.447	ppbV		95
38) carbon tetrachloride	11.047	117	79263	4.377	ppbV		97
39) cyclohexane	11.193	56	139326	4.976	ppbV		98
40) Dibromomethane	11.793	93	70189	4.821	ppbV	#	96
41) 1,2-dichloropropane	11.820	63	88890	5.056	ppbV		96
42) bromodichloromethane	12.047	83	112574	4.729	ppbV		97
43) 1,4-dioxane	12.093	88	56734	5.217	ppbV		98
44) trichloroethene	12.100	130	99784	5.118	ppbV		98
45) 2,2,4-trimethylpentane	12.147	57	438795	5.088	ppbV		98
46) heptane	12.460	43	137842	4.896	ppbV		97
47) cis-1,3-dichloropropene	13.117	75	104298	4.946	ppbV		99
48) 4-methyl-2-pentanone	13.150	43	154925	4.909	ppbV	#	93
49) trans-1,3-dichloropropene	13.733	75	77749	4.772	ppbV		95
50) 1,1,2-trichloroethane	13.942	97	91527	5.300	ppbV		88
52) toluene	14.250	91	284404	5.789	ppbV		99
54) 2-hexanone	14.533	43	138846	5.478	ppbV	#	92
55) dibromochloromethane	14.700	129	118455	6.440	ppbV		99
56) 1,2-dibromoethane	14.950	107	125011	5.778	ppbV		100
57) tetrachloroethene	15.408	166	107283	5.657	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.042	131	89297	5.725	ppbV		99
59) chlorobenzene	16.050	112	213731	5.476	ppbV		100
60) ethylbenzene	16.400	91	365782	5.908	ppbV		94
61) m+p-xylene	16.567	91	585717	11.927	ppbV		97
62) bromoform	16.642	173	101087	6.915	ppbV		98
63) styrene	16.892	104	231910	6.120	ppbV		93
64) 1,1,2,2-tetrachloroethane	16.983	83	216548	5.692	ppbV		97
65) o-xylene	16.983	91	300210	6.012	ppbV		94
66) 1,2,3-Trichloropropane	17.100	75	139220	5.094	ppbV		98
68) isopropylbenzene	17.500	105	360263	5.724	ppbV		97
69) Bromobenzene	17.575	77	187686	5.183	ppbV		92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540794_Ev2.D
Acq On : 21 Nov 2023 5:20 PM
Operator : AIRLAB15:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\r1540785_Ev2.D
Sub List : Default - All compounds listed

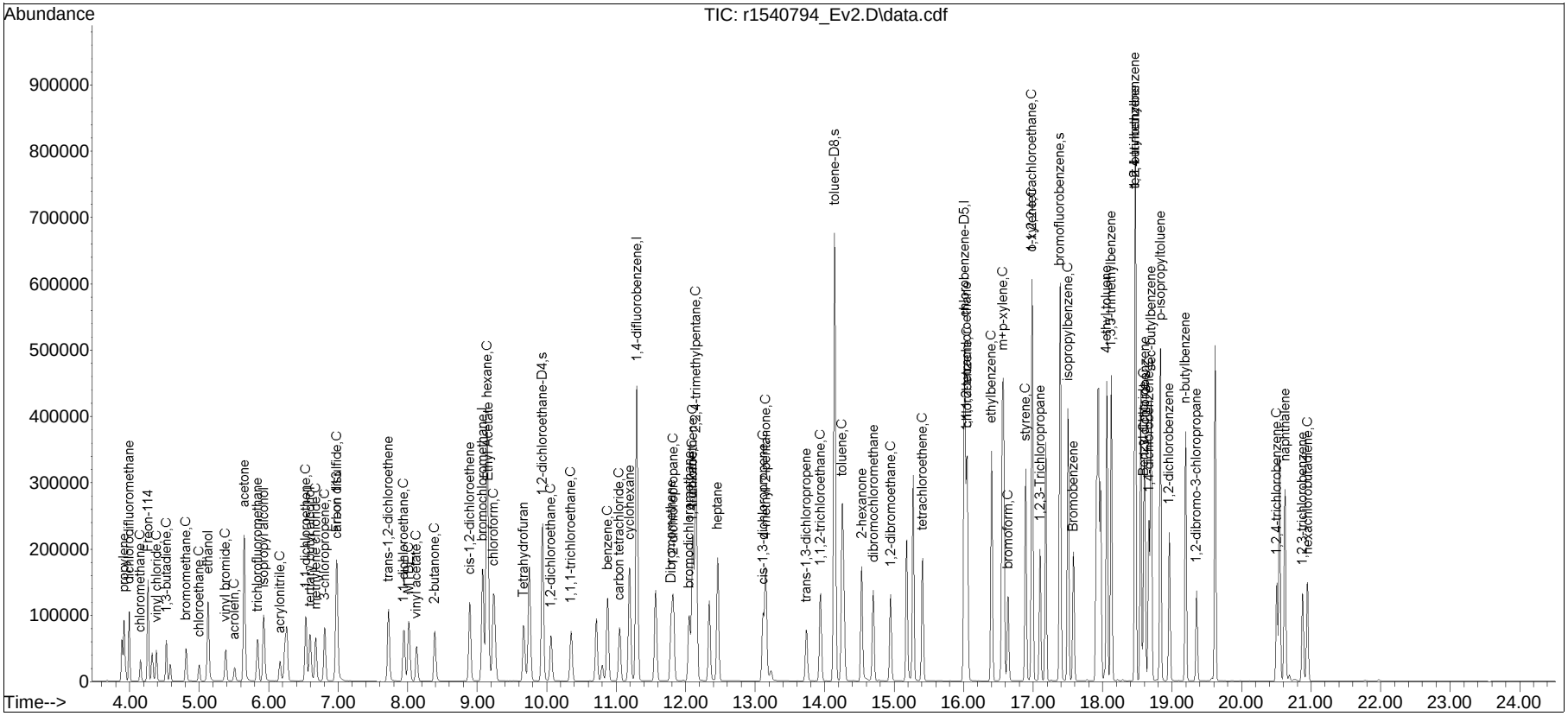
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.058	105	387623	5.998	ppbV	98
71) 1,3,5-trimethylbenzene	18.125	105	327437	5.789	ppbV	98
72) tert-butylbenzene	18.467	119	338076	5.581	ppbV	98
73) 1,2,4-trimethylbenzene	18.467	105	330728	5.949	ppbV	93
74) Benzyl Chloride	18.592	91	191241	6.265	ppbV	100
75) 1,3-dichlorobenzene	18.608	146	232655	6.041	ppbV	98
76) 1,4-dichlorobenzene	18.667	146	233156	6.162	ppbV	98
77) sec-butylbenzene	18.700	105	460650	5.687	ppbV	95
78) p-isopropyltoluene	18.833	119	388253	5.643	ppbV	97
79) 1,2-dichlorobenzene	18.958	146	221490	6.130	ppbV	98
80) n-butylbenzene	19.192	91	398084	6.124	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.350	75	70468	5.923	ppbV	90
82) 1,2,4-trichlorobenzene	20.508	180	166094	6.577	ppbV	94
83) naphthalene	20.625	128	454389	6.511	ppbV	98
84) 1,2,3-trichlorobenzene	20.875	180	151422	6.798	ppbV	98
85) hexachlorobutadiene	20.950	225	133931	6.032	ppbV	95

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

Sub List : Default - All compounds listed3\11\1120SIM_I\r1540785_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\
Data File : r1540794_Ev2.D
Acq On : 21 Nov 2023 5:20 PM
Operator : AIRLAB15:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1855600
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 22 08:51:10 2023
Quant Method : O:\Forensics\Data\Airlab15\2023\11\1120SIM_I\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

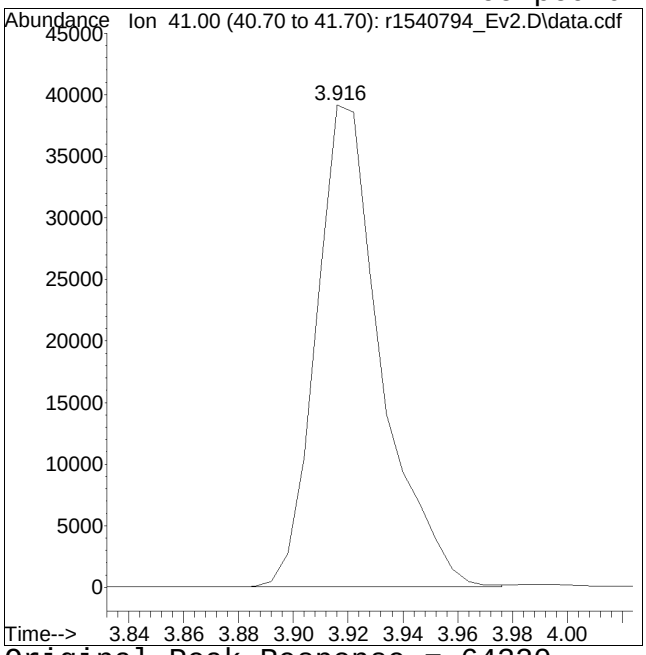


Manual Integration Report

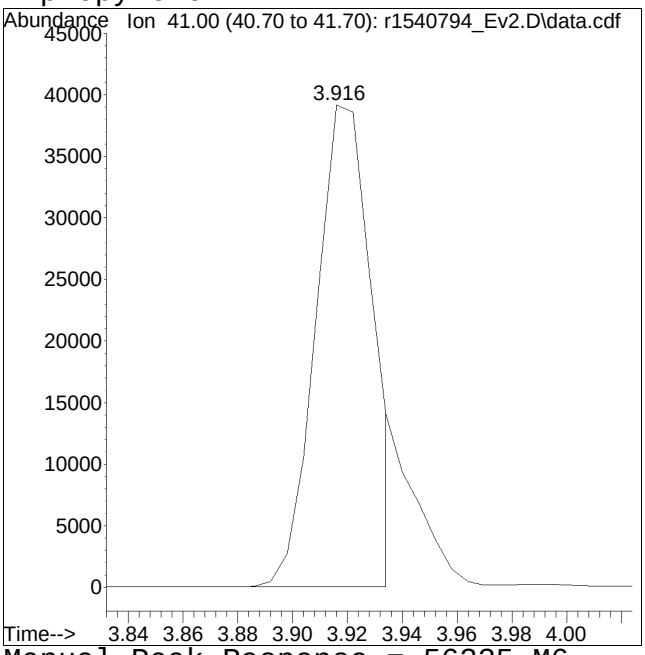
Data Path : O:\Forensics\Data\Airlab15\
Data File : r1540794_Ev2.D
Date Inj'd : 11/21/2020 0:5: 0
Sample : CTO15-SIMSTD5.0

QMethod : TSIM15_231120.M
Operator : AIRLAB15:RAY
Instrument :
Quant Date : 11/22/2023 8:51 am

Compound #2: propylene



Original Peak Response = 64320



Manual Peak Response = 56335 M6

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

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Method File : TSIM22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Dec 03 08:16:38 2023
Response Via : Initial Calibration

Calibration Files
0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	----------	----------	----------	ISTD	----------	----------	----------	----------	----------	----------		
2)		propylene				0.816	0.682	0.676	0.584	0.570	0.598	0.584	0.644	13.68
3)		dichlorodifluo...				1.044	1.007	0.946	0.927	0.804	0.804	0.707	0.891	13.76
4)	C	chloromethane				0.493	0.461	0.455	0.426	0.424	0.418	0.416	0.442	6.55
5)		Freon-114		1.477	1.421	1.490	1.435	1.435	1.308	1.253	1.122	0.950	1.321	13.92
6)	C	vinyl chloride	0.827	0.655	0.624	0.662	0.628	0.637	0.593	0.580	0.542	0.512	0.626	13.68
7)	C	1,3-butadiene	0.505	0.470	0.432	0.478	0.460	0.460	0.416	0.409	0.396	0.373	0.440	9.39
8)	C	bromomethane	0.655	0.524	0.487	0.496	0.467	0.473	0.436	0.423	0.392	0.349	0.470	17.66
9)	C	chloroethane			0.258	0.256	0.242	0.268	0.221	0.221	0.222	0.205	0.237	9.57
10)		ethanol					0.202	0.162	0.167	0.148	0.164	0.129	0.162	14.95
11)	C	vinyl bromide				0.516	0.491	0.487	0.444	0.432	0.417	0.368	0.451	11.28
12)	C	acrolein		0.258	0.239	0.213	0.204	0.197	0.184	0.183	0.174	0.167	0.202	15.06
13)		acetone				0.392	0.377	0.373	0.330	0.321	0.309	0.284	0.341	11.80
14)		trichlorofluor...		0.619	0.581	0.597	0.580	0.578	0.536	0.525	0.491	0.443	0.550	10.26
15)		isopropyl alcohol				0.649	0.649	0.602	0.560	0.540	0.541	0.492	0.576	10.29
16)	C	acrylonitrile				0.386	0.395	0.378	0.354	0.349	0.352	0.321	0.362	7.10

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Method File : TSIM22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Dec 03 08:16:38 2023
Response Via : Initial Calibration

Calibration Files
0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
17)	C	1,1-dichloroet...	1.050	0.950	0.935	0.895	0.978	1.038	0.943	0.931	0.931	0.724	0.937	9.56
18)		tertiary butyl...					1.347	1.255	1.325	1.289	1.310	1.117	1.274	6.51
19)	C	methylene chlo...					0.910	0.886	0.793	0.788	0.773	0.738	0.814	8.34
20)	C	3-chloropropene				1.182	1.159	1.148	1.069	1.067	1.071	1.020	1.102	5.49
21)	C	carbon disulfide				2.576	2.517	2.507	2.298	2.273	2.263	2.067	2.357	7.73
22)		Freon 113	1.758	1.553	1.472	1.522	1.487	1.467	1.378	1.359	1.296	1.130	1.442	11.60
23)		trans-1,2-dich...	1.383	1.260	1.157	1.180	1.150	1.148	1.053	1.040	1.034	0.932	1.134	11.27
24)	C	1,1-dichloroet...	1.471	1.446	1.431	1.499	1.465	1.450	1.369	1.361	1.327	1.225	1.404	5.94
25)	C	MTBE	2.166	2.088	2.058	2.122	2.107	2.097	1.935	1.919	1.894	1.701	2.009	7.13
26)	C	vinyl acetate					1.532	1.531	1.402	1.442	1.518	1.507	1.489	3.63
27)	C	2-butanone				1.859	1.826	1.850	1.674	1.671	1.688	1.474	1.720	8.00
28)		cis-1,2-dichlo...	1.125	1.111	1.016	1.079	1.049	1.034	0.979	0.968	0.937	0.847	1.014	8.35
29)		Ethyl Acetate				0.280	0.286	0.284	0.262	0.265	0.256	0.219	0.264	8.79
30)	C	chloroform	1.687	1.362	1.341	1.405	1.369	1.371	1.290	1.259	1.194	1.025	1.330	12.68
31)		Tetrahydrofuran				1.149	1.122	1.127	1.045	1.037	1.043	0.974	1.071	5.89
32)	C	1,2-dichloroet...	0.911	0.717	0.713	0.865	0.771	0.744	0.688	0.670	0.633	0.534	0.725	14.98

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Method File : TSIM22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Dec 03 08:16:38 2023
Response Via : Initial Calibration

Calibration Files
0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
33)	I	1,4-difluorobenzene	----------ISTD----------											
34)	C	hexane				0.402	0.400	0.390	0.354	0.342	0.321	0.256	0.352	14.94
35)	s	1,2-dichloroet...				0.281	0.281	0.283	0.283	0.279	0.271	0.240	0.274	5.69
36)	C	1,1,1-trichlor...	0.368	0.334	0.317	0.331	0.324	0.322	0.299	0.323	0.295	0.237	0.315	10.73
37)	C	benzene			0.822	0.818	0.808	0.794	0.754	0.736	0.708	0.621	0.758	9.12
38)	C	carbon tetrach...	0.331	0.298	0.299	0.306	0.305	0.298	0.282	0.273	0.253	0.204	0.285	12.40
39)		cyclohexane				0.438	0.418	0.427	0.393	0.378	0.367	0.324	0.392	10.16
40)		Dibromomethane		0.241	0.226	0.223	0.214	0.209	0.194	0.188	0.171	0.137	0.200	15.92
41)	C	1,2-dichloropr...	0.324	0.288	0.268	0.276	0.272	0.267	0.253	0.247	0.231	0.194	0.262	13.16
42)		bromodichlorom...	0.430	0.378	0.385	0.393	0.387	0.382	0.350	0.338	0.314	0.250	0.361	13.97
43)	C	1,4-dioxane			0.192	0.196	0.179	0.173	0.157	0.161	0.159	0.130	0.168	12.74
44)	C	trichloroethene	0.405	0.366	0.359	0.364	0.363	0.353	0.335	0.327	0.304	0.242	0.342	12.97
45)	C	2,2,4-trimethy...				1.272	1.259	1.251	1.136	1.095	1.030	0.823	1.124	14.39
46)		heptane				0.491	0.484	0.482	0.441	0.431	0.413	0.340	0.440	12.15
47)	C	cis-1,3-dichlo...	0.441	0.396	0.375	0.399	0.398	0.389	0.371	0.368	0.345	0.286	0.377	10.82
48)	C	4-methyl-2-pen...					0.557	0.552	0.514	0.496	0.459	0.369	0.491	14.24

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Method File : TSIM22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Dec 03 08:16:38 2023
Response Via : Initial Calibration

Calibration Files
0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
49)		trans-1,3-dich...	0.315	0.308	0.295	0.316	0.319	0.316	0.299	0.298	0.284	0.244	0.299	7.50
50)	C	1,1,2-trichlor...	0.332	0.291	0.286	0.296	0.294	0.290	0.279	0.274	0.261	0.225	0.283	9.67
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene			9.439	9.259	9.127	9.069	8.649	8.641	8.312	7.428	8.740	7.41
53)	s	toluene-D8				1.029	1.026	1.056	1.068	1.100	1.166	1.310	1.108	9.15
54)		2-hexanone				5.147	5.028	5.077	4.772	4.854	4.886	4.717	4.926	3.27
55)		dibromochlorom...	4.281	4.050	3.865	4.040	4.011	3.967	3.715	3.731	3.723	3.369	3.875	6.52
56)	C	1,2-dibromoethane	4.474	4.206	4.124	4.215	4.137	4.122	3.969	4.017	4.015	3.743	4.102	4.64
57)	C	tetrachloroethene	4.146	3.679	3.748	3.765	3.778	3.684	3.577	3.580	3.473	3.072	3.650	7.43
58)		1,1,1,2-tetrac...	3.488	3.710	3.124	3.297	3.232	3.167	3.012	2.970	2.789	2.369	3.116	11.89
59)	C	chlorobenzene	7.815	7.643	7.383	7.597	7.614	7.468	7.218	7.190	6.829	5.896	7.265	7.69
60)	C	ethylbenzene	1.136	1.079	1.075	1.102	1.095	1.096	1.064	1.062	1.020	0.896	1.063	6.20
61)	C	m+p-xylene	9.063	8.776	8.710	8.931	9.020	8.980	8.579	8.331	7.537	6.093	8.402	11.07
62)	C	bromoform	3.406	3.014	2.905	2.975	3.002	2.990	2.826	2.831	2.794	2.447	2.919	8.20
63)	C	styrene	6.759	6.254	6.287	7.247	7.318	7.395	7.385	7.406	7.179	6.582	6.981	6.68
64)	C	1,1,2,2-tetrac...	6.371	6.188	5.955	6.144	6.176	6.141	5.973	5.862	5.427	4.591	5.883	8.86

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Method File : TSIM22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Dec 03 08:16:38 2023
Response Via : Initial Calibration

Calibration Files
0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
65)	C	o-xylene	9.031	8.853	8.750	8.989	9.121	8.958	8.533	8.141	7.277	5.790	8.344	12.65
66)		1,2,3-Trichlor...	5.091	4.577	4.514	4.680	4.720	4.676	4.594	4.624	4.492	4.193	4.616	4.85
67)	s	bromofluoroben...				6.518	6.347	6.604	6.919	7.121	7.251	8.119	6.983	8.57
68)	C	isopropylbenzene				1.158	1.165	1.155	1.116	1.092	1.018	0.879	1.083	9.55
69)		Bromobenzene	6.571	6.116	6.255	6.488	6.499	6.463	6.266	6.196	5.837	5.134	6.182	6.94
70)		4-ethyl toluene	1.184	1.121	1.115	1.190	1.212	1.212	1.157	1.131	1.073	0.910	1.131	7.96
71)		1,3,5-trimethy...	0.948	0.901	0.895	1.052	1.073	1.076	1.049	1.015	0.914	0.766	0.969	10.46
72)		tert-butylbenzene				1.105	1.114	1.108	1.050	0.966	0.822	0.631	0.971	18.86
73)		1,2,4-trimethy...	0.967	0.963	0.955	1.038	1.060	1.063	1.017	0.929	0.786	0.603	0.938	15.23
74)	C	Benzyl Chloride			4.308	4.580	4.845	5.113	5.718	5.981	6.066	5.474	5.261	12.42
75)		1,3-dichlorobe...	7.669	7.161	7.248	7.666	7.950	7.868	7.994	7.742	7.060	5.761	7.412	9.01
76)	C	1,4-dichlorobe...	7.645	7.034	6.988	7.463	7.666	7.752	7.831	7.691	6.903	5.749	7.272	8.75
77)		sec-butylbenzene				1.440	1.479	1.489	1.442	1.381	1.243	1.017	1.356	12.63
78)		p-isopropyltol...				1.301	1.326	1.323	1.275	1.161	0.975	0.741	1.158	19.21
79)		1,2-dichlorobe...	6.958	6.722	6.737	7.212	7.306	7.344	7.523	7.393	6.788	5.830	6.981	7.15
80)		n-butylbenzene				1.059	1.104	1.107	1.113	1.064	0.948	0.790	1.026	11.57

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Method File : TSIM22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Sun Dec 03 08:16:38 2023
Response Via : Initial Calibration

Calibration Files
0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

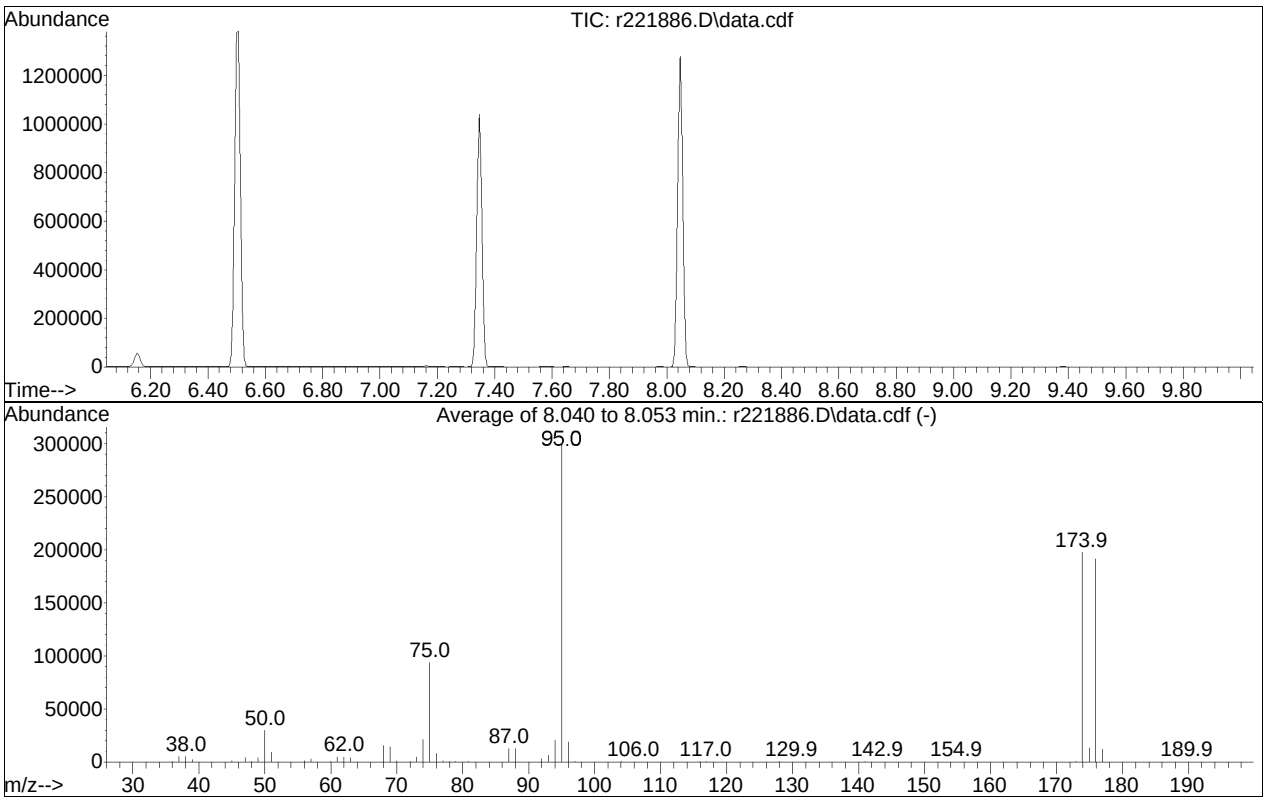
		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
81)		1,2-dibromo-3-...	2.460	2.317	2.162	2.367	2.449	2.472	2.463	2.325	2.059	1.772	2.285	9.93
82)	C	1,2,4-trichlor...		4.161	4.086	4.787	5.205	5.440	6.130	6.003	5.177	4.206	5.022	15.36
83)		naphthalene		1.127	1.106	1.212	1.363	1.440	1.456	1.353	1.103	0.838	1.222	16.47
84)		1,2,3-trichlor...		3.470	3.263	3.980	4.548	4.716	5.346	5.258	4.552	3.852	4.331	17.06
85)	C	hexachlorobuta...		3.324	3.175	3.918	4.141	4.110	4.195	3.794	3.109	2.369	3.571	17.29

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221886.D
Acq On : 29 Nov 2023 8:41 PM
Operator : AIRLAB22:RAY
Sample : WG1858561-1,3,250,250
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Dec 01 09:22:12 2023



Spectrum Information: Average of 8.040 to 8.053 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	9.9	29873	PASS
75	95	30	66	31.2	93793	PASS
95	95	100	100	100.0	300807	PASS
96	95	5	9	6.4	19360	PASS
173	174	0.00	2	0.4	812	PASS
174	95	50	120	65.7	197760	PASS
175	174	4	9	6.9	13567	PASS
176	174	93	101	96.6	191127	PASS
177	176	5	9	6.5	12433	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221887_Ev2.D
Acq On : 29 Nov 2023 9:09 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:45:55 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	226722	10.000	ppbV	0.00
Standard Area = 222532			Recovery = 101.88%			
33) 1,4-difluorobenzene	5.377	114	833698	10.000	ppbV	0.00
Standard Area = 823848			Recovery = 101.20%			
51) chlorobenzene-D5	7.340	54	85152	10.000	ppbV	0.00
Standard Area = 84248			Recovery = 101.07%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	153	0.006	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.06%#			
53) toluene-D8	6.500	98	23725	0.261	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 2.61%#			
67) bromofluorobenzene	8.047	95	8327	0.141	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.41%#			
Target Compounds						Qvalue
2) propylene	2.160	41	1012M6	0.072	ppbV	
3) dichlorodifluoromethane	2.200	85	515	0.025	ppbV	99
4) chloromethane	2.305	50	319	0.033	ppbV #	70
5) Freon-114	2.365	85	701	0.024	ppbV	96
6) vinyl chloride	2.435	62	375	0.028	ppbV	91
7) 1,3-butadiene	2.505	54	229	0.024	ppbV	90
8) bromomethane	2.630	94	297	0.030	ppbV	95
9) chloroethane	2.710	64	162	0.032	ppbV #	34
10) ethanol	2.745	31	1836	0.485	ppbV	96
11) vinyl bromide	2.866	106	294	0.029	ppbV	81
12) acrolein	2.917	56	145	0.035	ppbV #	54
13) acetone	2.974	43	1371	0.183	ppbV #	99
14) trichlorofluoromethane	3.058	101	325	0.027	ppbV	98
15) isopropyl alcohol	3.088	45	1201	0.095	ppbV #	92
16) acrylonitrile	3.187	53	192	0.024	ppbV #	94
17) 1,1-dichloroethene	3.355	61	476	0.022	ppbV	93
18) tertiary butyl alcohol	3.385	59	905	0.030	ppbV #	91
19) methylene chloride	3.410	49	1170	0.065	ppbV	98
20) 3-chloropropene	3.465	41	563	0.023	ppbV #	91
21) carbon disulfide	3.555	76	1200	0.023	ppbV #	1
22) Freon 113	3.540	101	797	0.026	ppbV	95
23) trans-1,2-dichloroethene	3.863	61	627	0.026	ppbV	96
24) 1,1-dichloroethane	3.963	63	667	0.021	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221887_Ev2.D
Acq On : 29 Nov 2023 9:09 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:45:55 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	3.997	73	982	0.022	ppbV #	94
26) vinyl acetate	4.030	43	721M6	0.023	ppbV	
27) 2-butanone	4.157	43	907	0.024	ppbV	95
28) cis-1,2-dichloroethene	4.363	61	510	0.023	ppbV	96
29) Ethyl Acetate	4.477	61	160	0.027	ppbV #	29
30) chloroform	4.510	83	765	0.026	ppbV	97
31) Tetrahydrofuran	4.710	42	522	0.022	ppbV	94
32) 1,2-dichloroethane	4.863	62	413M4	0.026	ppbV	
34) hexane	4.470	57	767	0.026	ppbV #	69
36) 1,1,1-trichloroethane	4.990	97	613	0.025	ppbV #	94
37) benzene	5.210	78	1520	0.024	ppbV	99
38) carbon tetrachloride	5.283	117	552	0.023	ppbV #	89
39) cyclohexane	5.343	56	761M3	0.023	ppbV	
40) Dibromomethane	5.583	93	510	0.031	ppbV #	97
41) 1,2-dichloropropane	5.597	63	540	0.026	ppbV #	93
42) bromodichloromethane	5.683	83	717	0.025	ppbV #	93
43) 1,4-dioxane	5.723	88	410	0.031	ppbV	93
44) trichloroethene	5.710	130	675	0.024	ppbV	98
45) 2,2,4-trimethylpentane	5.723	57	2069	0.022	ppbV	96
46) heptane	5.843	43	855	0.023	ppbV #	89
47) cis-1,3-dichloropropene	6.100	75	735	0.024	ppbV	99
48) 4-methyl-2-pentanone	6.127	43	1191	0.028	ppbV	97
49) trans-1,3-dichloropropene	6.340	75	525	0.021	ppbV #	93
50) 1,1,2-trichloroethane	6.420	97	553	0.024	ppbV	95
52) toluene	6.547	91	1705	0.023	ppbV	99
54) 2-hexanone	6.667	43	744	0.018	ppbV	99
55) dibromochloromethane	6.740	129	729	0.023	ppbV #	95
56) 1,2-dibromoethane	6.853	107	762	0.023	ppbV	98
57) tetrachloroethene	7.060	166	706	0.023	ppbV #	93
58) 1,1,1,2-tetrachloroethane	7.353	131	594	0.023	ppbV #	95
59) chlorobenzene	7.367	112	1331	0.022	ppbV	98
60) ethylbenzene	7.533	91	1935	0.021	ppbV	99
61) m+p-xylene	7.613	91	3087	0.042	ppbV	96
62) bromoform	7.653	173	580	0.024	ppbV	93
63) styrene	7.780	104	1151	0.018	ppbV	97
64) 1,1,2,2-tetrachloroethane	7.827	83	1085	0.021	ppbV	99
65) o-xylene	7.827	91	1538	0.021	ppbV	96
66) 1,2,3-Trichloropropane	7.887	75	867	0.022	ppbV #	92
68) isopropylbenzene	8.107	105	1970	0.021	ppbV	98
69) Bromobenzene	8.153	77	1119	0.021	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221887_Ev2.D
Acq On : 29 Nov 2023 9:09 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:45:55 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

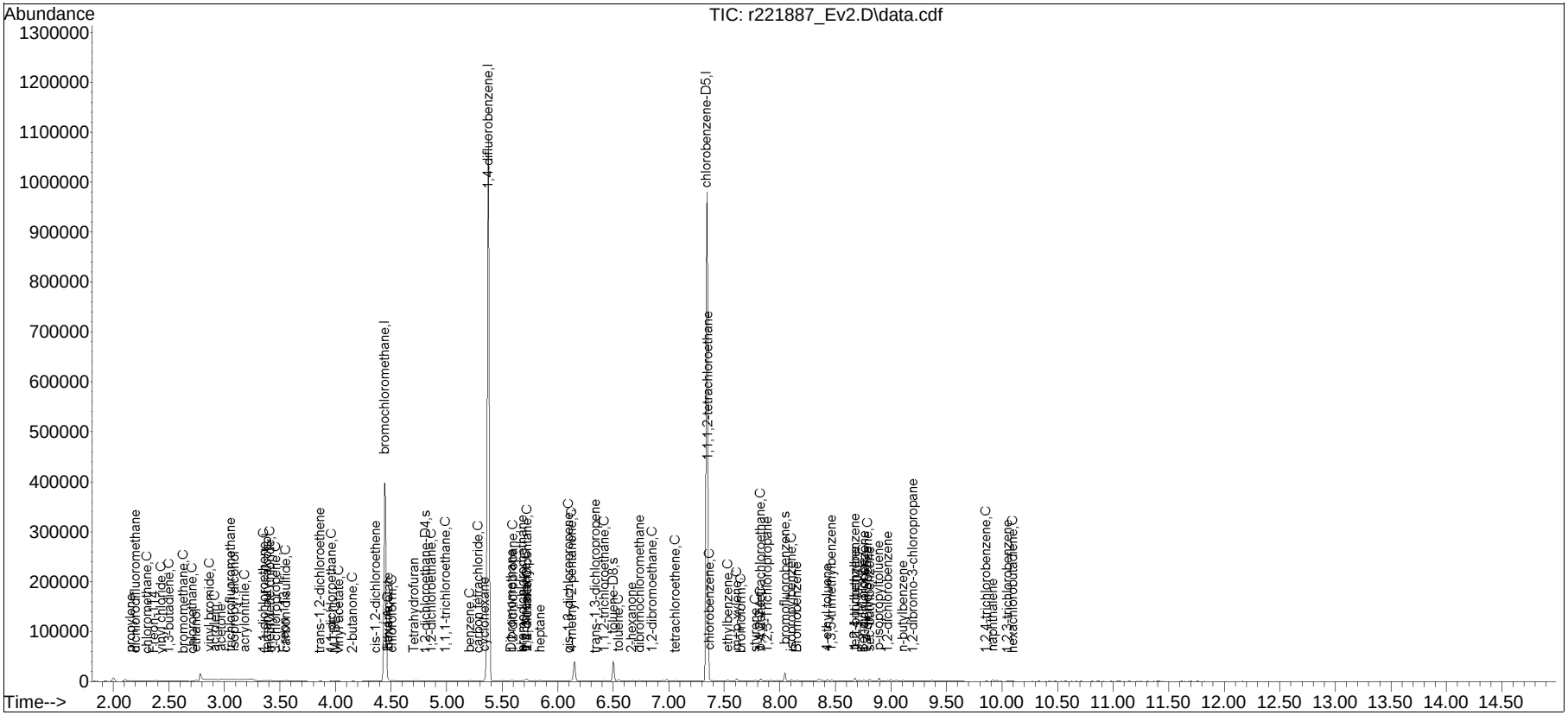
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	2016	0.020	ppbV	98
71) 1,3,5-trimethylbenzene	8.467	105	1615	0.018	ppbV #	97
72) tert-butylbenzene	8.677	119	1796	0.020	ppbV	93
73) 1,2,4-trimethylbenzene	8.677	105	1646	0.019	ppbV	93
74) Benzyl Chloride	8.750	91	841	0.017	ppbV	93
75) 1,3-dichlorobenzene	8.757	146	1306	0.019	ppbV #	92
76) 1,4-dichlorobenzene	8.790	146	1302	0.020	ppbV	92
77) sec-butylbenzene	8.810	105	2320	0.019	ppbV	96
78) p-isopropyltoluene	8.890	119	1974	0.018	ppbV	94
79) 1,2-dichlorobenzene	8.970	146	1185	0.018	ppbV #	90
80) n-butylbenzene	9.110	91	1581	0.017	ppbV	96
81) 1,2-dibromo-3-chloropr...	9.197	75	419	0.020	ppbV	86
82) 1,2,4-trichlorobenzene	9.857	180	665	0.013	ppbV #	84
83) naphthalene	9.918	128	1960	0.016	ppbV #	94
84) 1,2,3-trichlorobenzene	10.053	180	635	0.014	ppbV #	83
85) hexachlorobutadiene	10.098	225	595	0.017	ppbV #	95

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

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221887_Ev2.D
Acq On : 29 Nov 2023 9:09 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

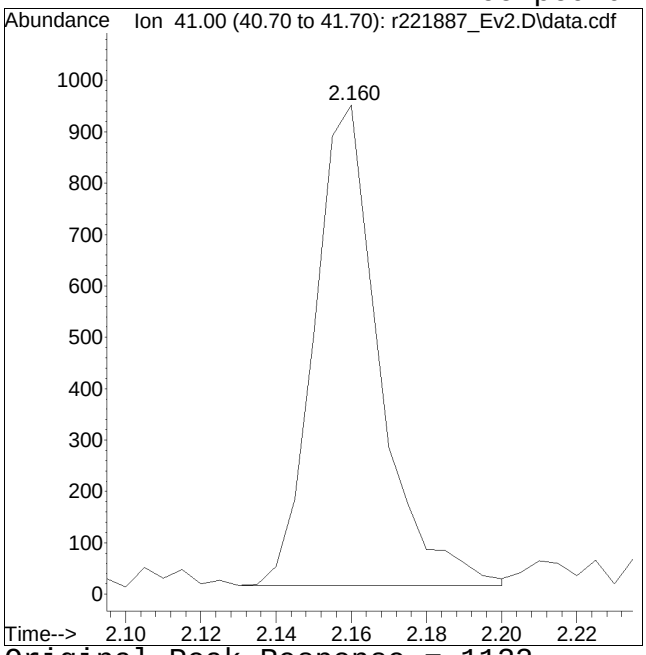
Quant Time: Nov 30 12:45:55 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



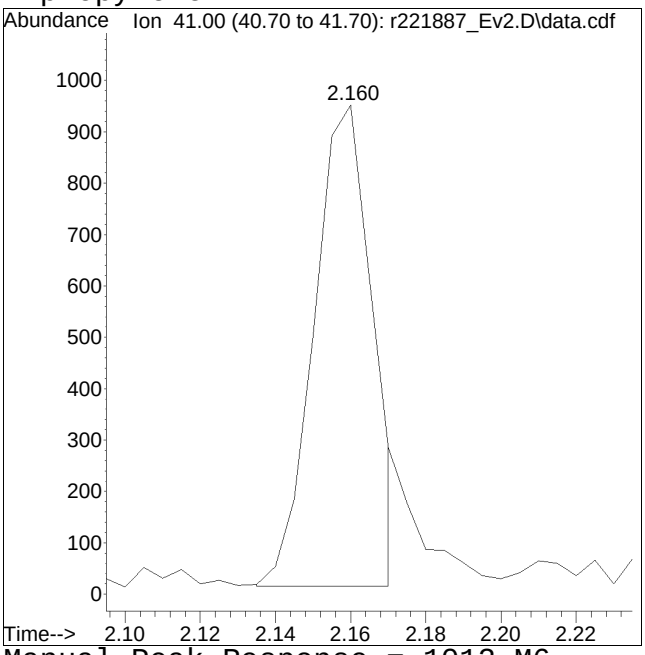
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221887_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 9 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/30/2023 12:45 pm

Compound #2: propylene



Original Peak Response = 1122



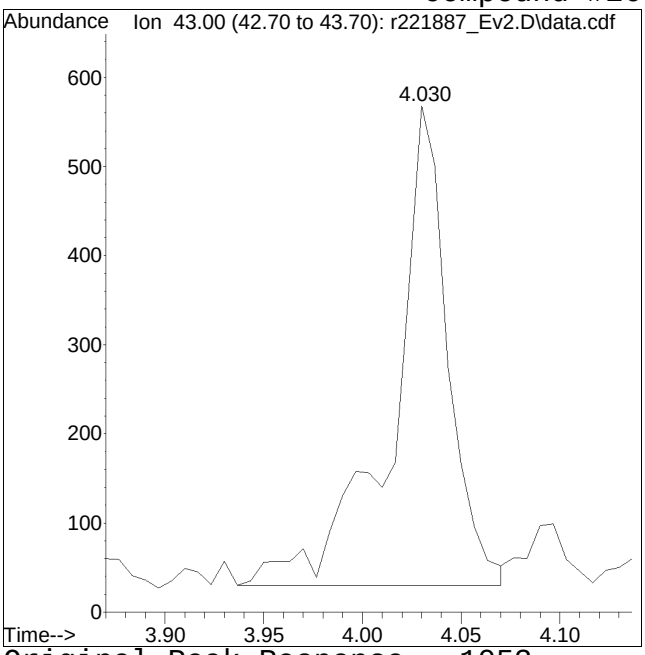
Manual Peak Response = 1012 M6

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

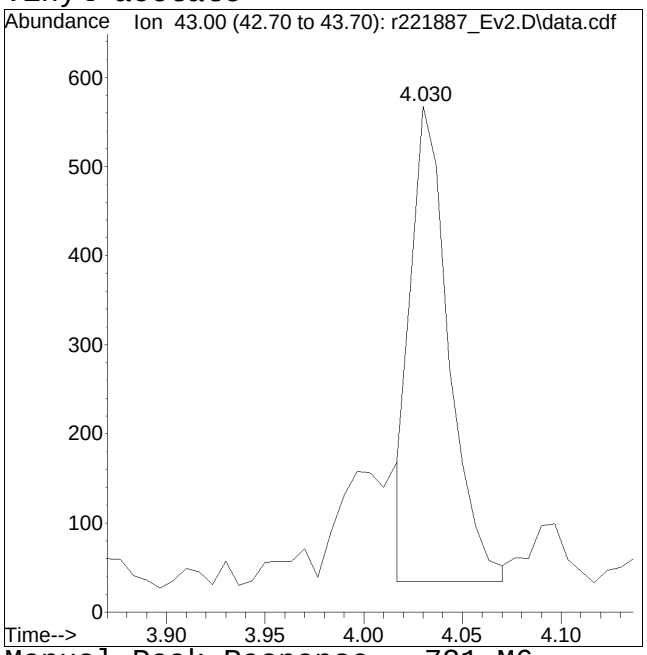
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221887_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 9 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/30/2023 12:45 pm

Compound #26: vinyl acetate



Original Peak Response = 1053



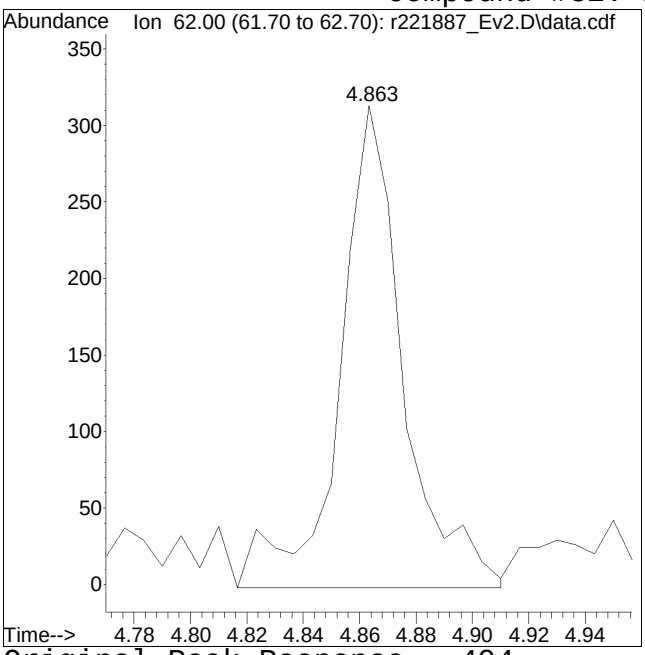
Manual Peak Response = 721 M6

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

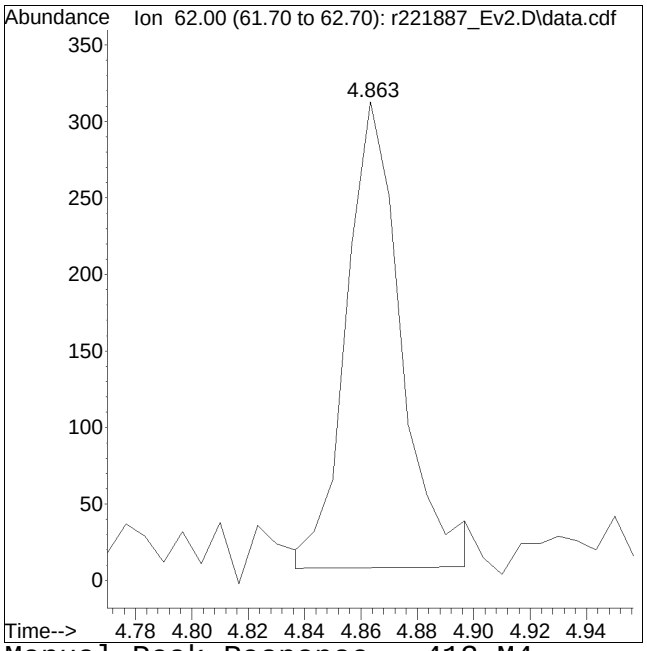
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221887_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 9 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/30/2023 12:45 pm

Compound #32: 1,2-dichloroethane



Original Peak Response = 494



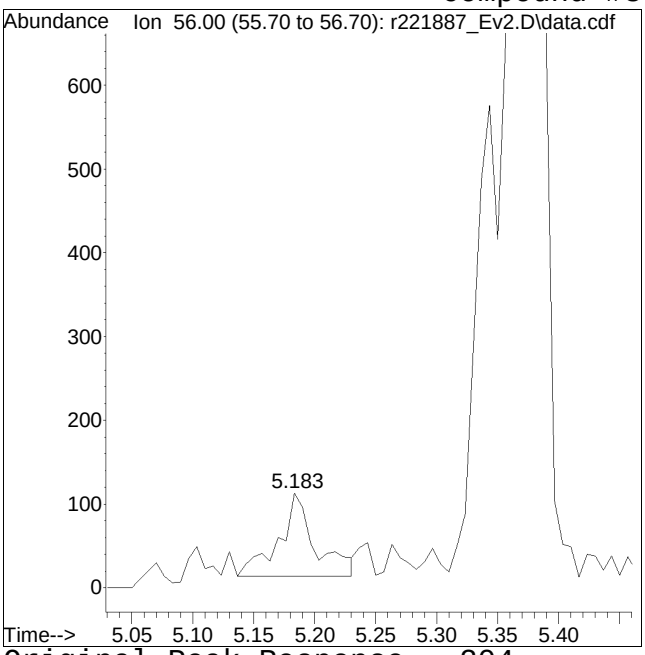
Manual Peak Response = 413 M4

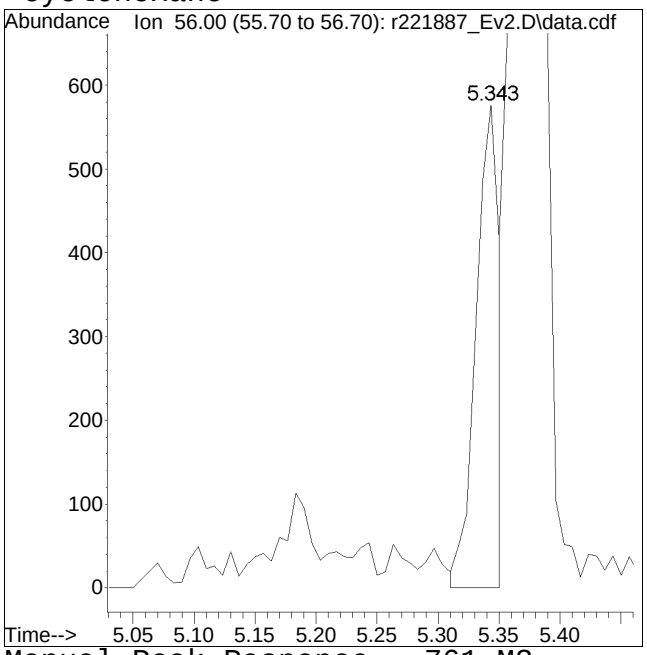
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221887_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 9 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/30/2023 12:45 pm

Compound #39: cyclohexane





Original Peak Response = 204 Manual Peak Response = 761 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221888_Ev2.D
Acq On : 29 Nov 2023 9:38 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:01 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	224031	10.000	ppbV	0.00
Standard Area = 222532			Recovery = 100.67%			
33) 1,4-difluorobenzene	5.377	114	828352	10.000	ppbV	0.00
Standard Area = 823848			Recovery = 100.55%			
51) chlorobenzene-D5	7.340	54	85126	10.000	ppbV	0.00
Standard Area = 84248			Recovery = 101.04%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.00%#			
53) toluene-D8	6.500	98	23242	0.256	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 2.56%#			
67) bromofluorobenzene	8.047	95	7212	0.122	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.22%#			
Target Compounds						Qvalue
2) propylene	2.160	41	1440M6	0.103	ppbV	
3) dichlorodifluoromethane	2.200	85	1187	0.057	ppbV	96
4) chloromethane	2.305	50	629	0.066	ppbV #	85
5) Freon-114	2.365	85	1654	0.056	ppbV	99
6) vinyl chloride	2.435	62	734	0.055	ppbV	97
7) 1,3-butadiene	2.505	54	527	0.057	ppbV	98
8) bromomethane	2.635	94	587	0.060	ppbV	94
9) chloroethane	2.710	64	320	0.065	ppbV #	68
10) ethanol	2.750	31	2545	0.680	ppbV	98
11) vinyl bromide	2.869	106	586	0.059	ppbV	98
12) acrolein	2.914	56	289	0.070	ppbV #	61
13) acetone	2.977	43	2968	0.402	ppbV #	96
14) trichlorofluoromethane	3.058	101	693	0.058	ppbV	96
15) isopropyl alcohol	3.091	45	2801	0.223	ppbV #	97
16) acrylonitrile	3.190	53	472	0.059	ppbV	96
17) 1,1-dichloroethene	3.355	61	1064	0.050	ppbV	98
18) tertiary butyl alcohol	3.385	59	2012	0.068	ppbV #	86
19) methylene chloride	3.415	49	2028	0.114	ppbV	94
20) 3-chloropropene	3.470	41	1292	0.054	ppbV	97
21) carbon disulfide	3.560	76	2804	0.054	ppbV #	24
22) Freon 113	3.540	101	1740	0.056	ppbV	98
23) trans-1,2-dichloroethene	3.863	61	1411	0.060	ppbV	94
24) 1,1-dichloroethane	3.963	63	1620	0.053	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221888_Ev2.D
Acq On : 29 Nov 2023 9:38 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:01 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.997	73	2339	0.054	ppbV	#	90
26) vinyl acetate	4.030	43	1991M6	0.063	ppbV		
27) 2-butanone	4.157	43	2106	0.056	ppbV		99
28) cis-1,2-dichloroethene	4.363	61	1244	0.057	ppbV		94
29) Ethyl Acetate	4.477	61	393	0.067	ppbV		77
30) chloroform	4.510	83	1526	0.053	ppbV		98
31) Tetrahydrofuran	4.710	42	1307	0.056	ppbV		98
32) 1,2-dichloroethane	4.863	62	803	0.052	ppbV		91
34) hexane	4.470	57	1672	0.057	ppbV	#	68
36) 1,1,1-trichloroethane	4.990	97	1385	0.056	ppbV	#	96
37) benzene	5.210	78	3525	0.056	ppbV		98
38) carbon tetrachloride	5.283	117	1234	0.053	ppbV	#	98
39) cyclohexane	5.343	56	1663M6	0.051	ppbV		
40) Dibromomethane	5.583	93	998	0.062	ppbV	#	98
41) 1,2-dichloropropane	5.597	63	1194	0.057	ppbV		99
42) bromodichloromethane	5.683	83	1566	0.054	ppbV	#	99
43) 1,4-dioxane	5.723	88	857	0.066	ppbV		85
44) trichloroethene	5.710	130	1514	0.055	ppbV		98
45) 2,2,4-trimethylpentane	5.723	57	5114	0.054	ppbV		99
46) heptane	5.843	43	1987	0.054	ppbV	#	94
47) cis-1,3-dichloropropene	6.100	75	1640	0.053	ppbV		98
48) 4-methyl-2-pentanone	6.127	43	2489M6	0.058	ppbV		
49) trans-1,3-dichloropropene	6.340	75	1274	0.051	ppbV		94
50) 1,1,2-trichloroethane	6.420	97	1205	0.052	ppbV		97
52) toluene	6.547	91	4092	0.056	ppbV		99
54) 2-hexanone	6.667	43	2018	0.050	ppbV		99
55) dibromochloromethane	6.740	129	1724	0.055	ppbV		97
56) 1,2-dibromoethane	6.853	107	1790	0.053	ppbV		99
57) tetrachloroethene	7.060	166	1566	0.051	ppbV		99
58) 1,1,1,2-tetrachloroethane	7.353	131	1579	0.062	ppbV		97
59) chlorobenzene	7.367	112	3253	0.053	ppbV		99
60) ethylbenzene	7.533	91	4592	0.051	ppbV		99
61) m+p-xylene	7.613	91	7471	0.102	ppbV		97
62) bromoform	7.653	173	1283	0.053	ppbV		98
63) styrene	7.780	104	2662	0.042	ppbV		98
64) 1,1,2,2-tetrachloroethane	7.827	83	2634	0.052	ppbV		99
65) o-xylene	7.827	91	3768	0.052	ppbV		96
66) 1,2,3-Trichloropropane	7.887	75	1948	0.050	ppbV	#	90
68) isopropylbenzene	8.107	105	4674	0.049	ppbV		98
69) Bromobenzene	8.153	77	2603	0.049	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221888_Ev2.D
Acq On : 29 Nov 2023 9:38 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:01 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

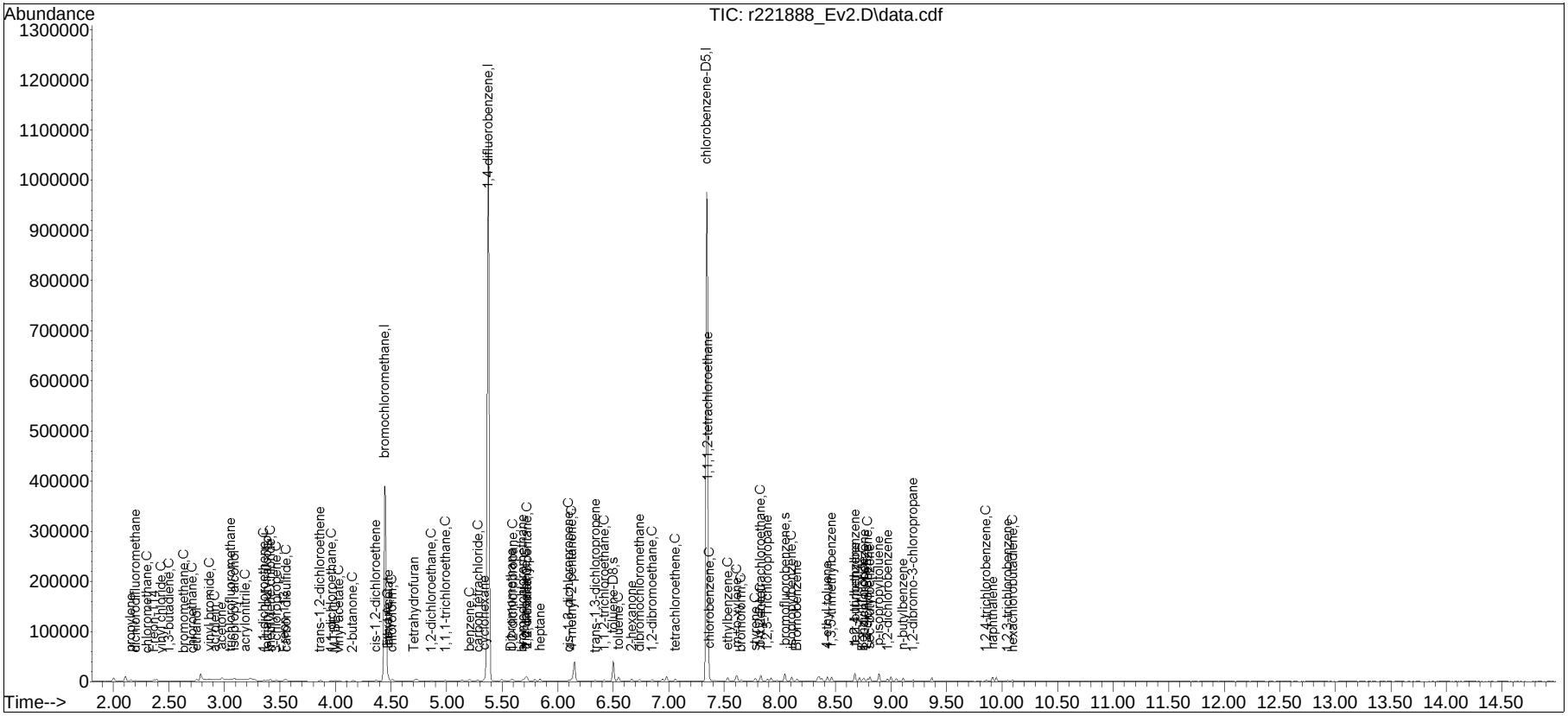
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	4772	0.048	ppbV	97
71) 1,3,5-trimethylbenzene	8.467	105	3833	0.043	ppbV	97
72) tert-butylbenzene	8.677	119	4393	0.049	ppbV	99
73) 1,2,4-trimethylbenzene	8.677	105	4099	0.047	ppbV	94
74) Benzyl Chloride	8.750	91	1836	0.038	ppbV	92
75) 1,3-dichlorobenzene	8.757	146	3048	0.045	ppbV	95
76) 1,4-dichlorobenzene	8.790	146	2994M3	0.045	ppbV	
77) sec-butylbenzene	8.810	105	5669	0.046	ppbV	99
78) p-isopropyltoluene	8.890	119	4973	0.046	ppbV	100
79) 1,2-dichlorobenzene	8.970	146	2861	0.045	ppbV	96
80) n-butylbenzene	9.110	91	3978	0.042	ppbV	97
81) 1,2-dibromo-3-chloropr...	9.197	75	986	0.047	ppbV	88
82) 1,2,4-trichlorobenzene	9.857	180	1771	0.034	ppbV #	90
83) naphthalene	9.918	128	4797	0.039	ppbV #	96
84) 1,2,3-trichlorobenzene	10.053	180	1477	0.032	ppbV #	91
85) hexachlorobutadiene	10.098	225	1415	0.040	ppbV #	95

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

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221888_Ev2.D
Acq On : 29 Nov 2023 9:38 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:01 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

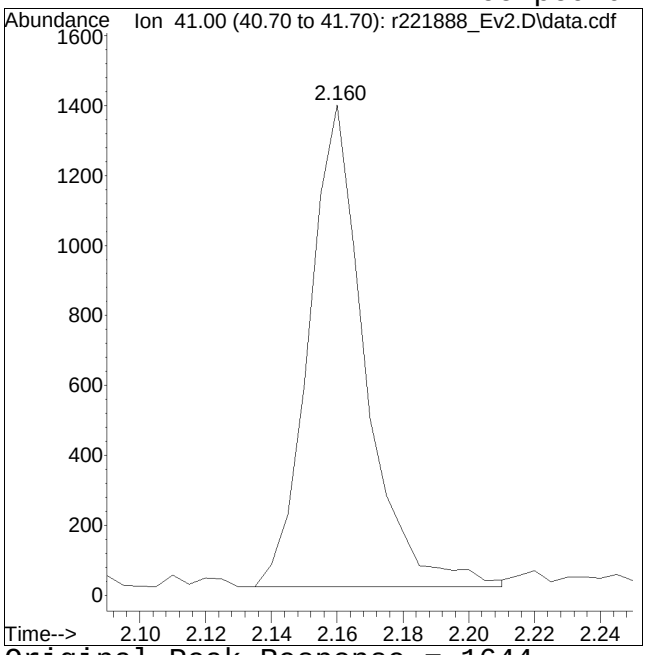


Manual Integration Report

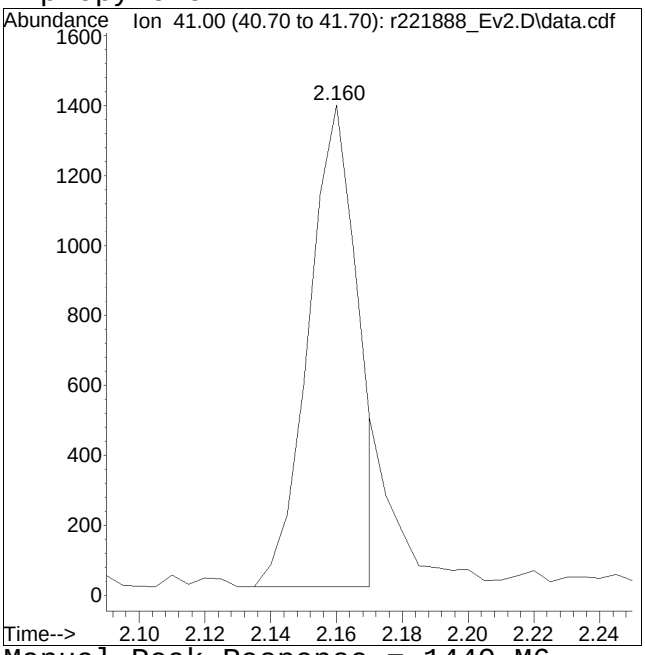
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221888_Ev2.D
Date Inj'd : 11/29/2020 0:9: 8
Sample : ITO15-SIMSTD0.05

Method : TSIM22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 1644



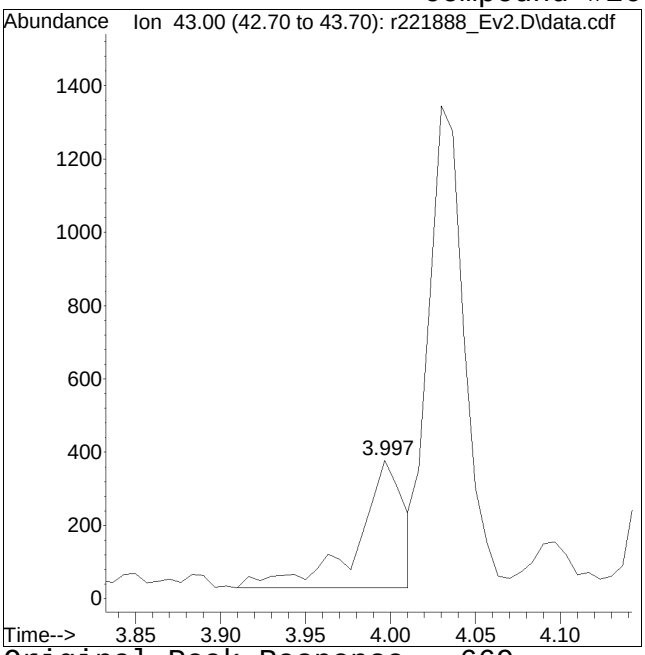
Manual Peak Response = 1440 M6

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

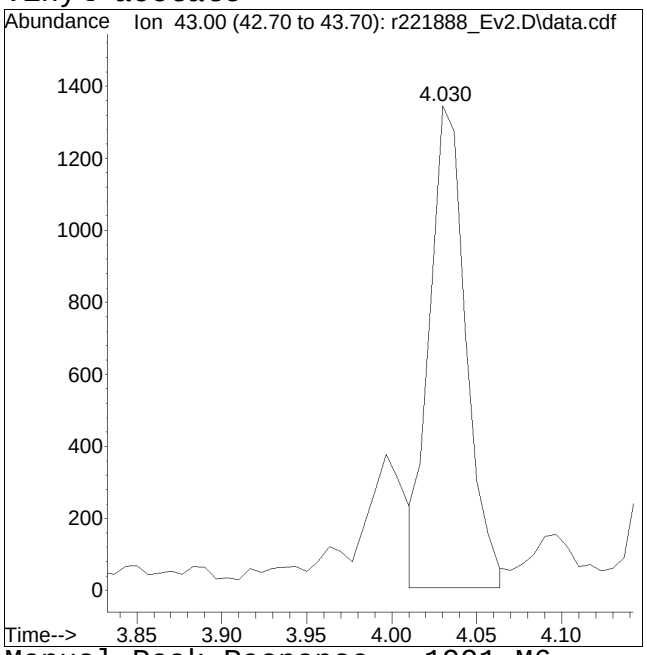
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221888_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/30/2023 12:46 pm

Compound #26: vinyl acetate



Original Peak Response = 669



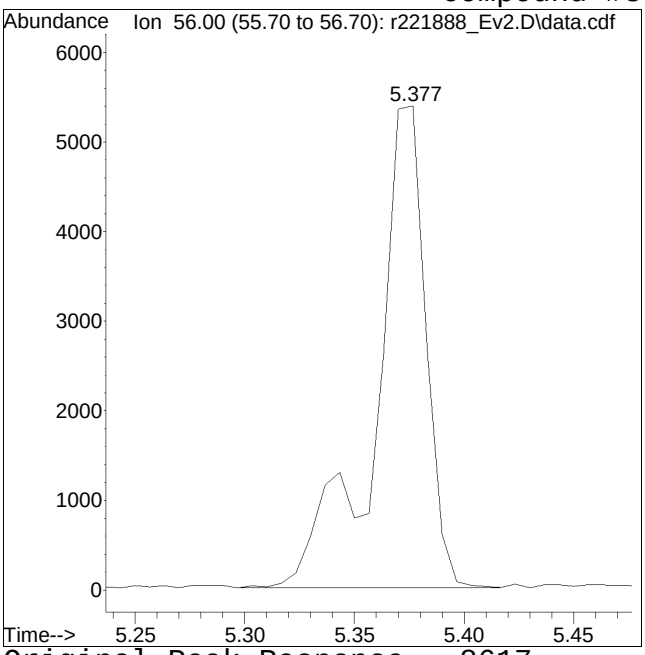
Manual Peak Response = 1991 M6

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

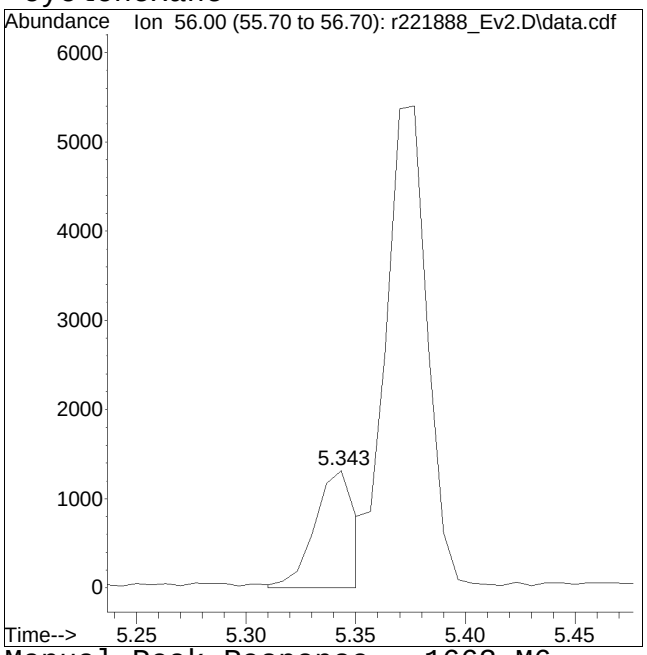
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221888_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/30/2023 12:46 pm

Compound #39: cyclohexane



Original Peak Response = 8617



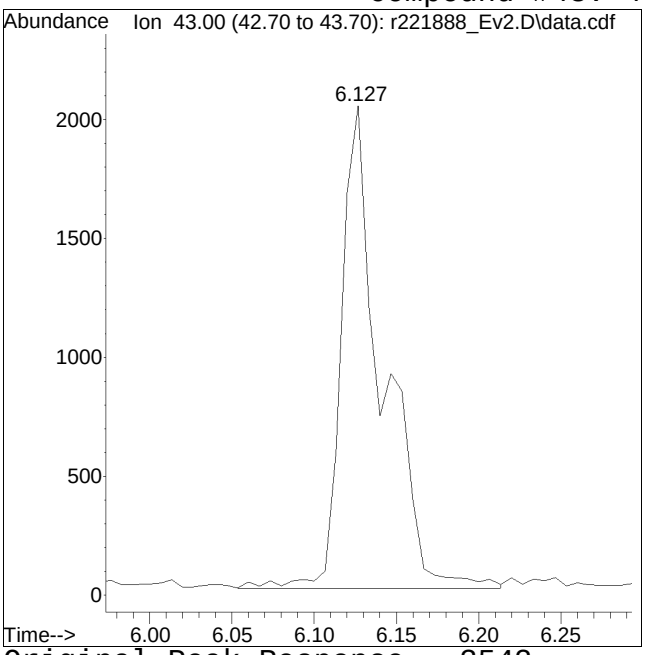
Manual Peak Response = 1663 M6

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

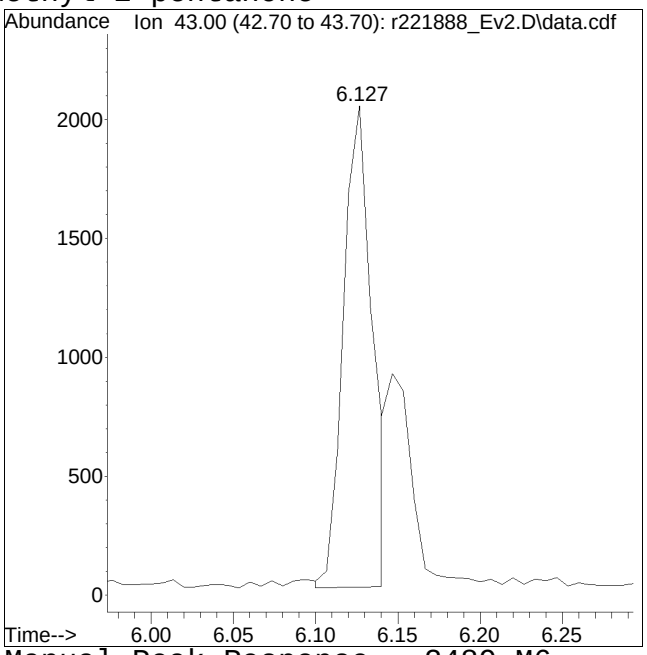
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221888_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/30/2023 12:46 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 3542



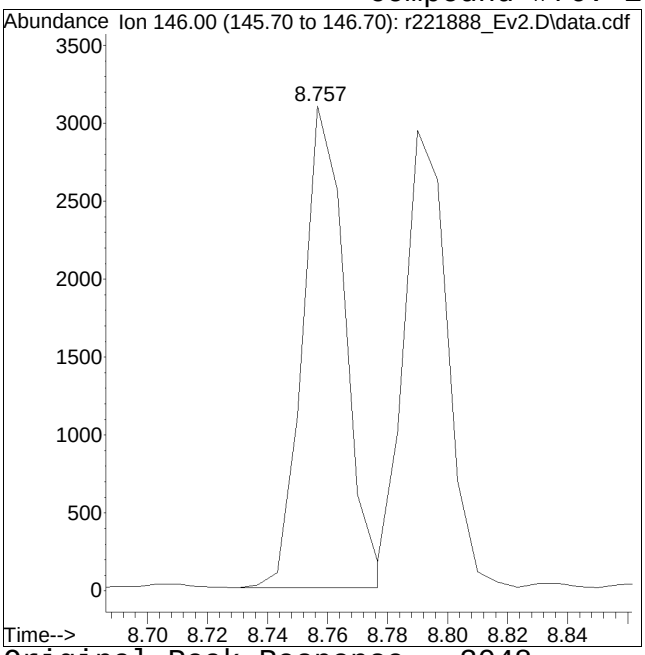
Manual Peak Response = 2489 M6

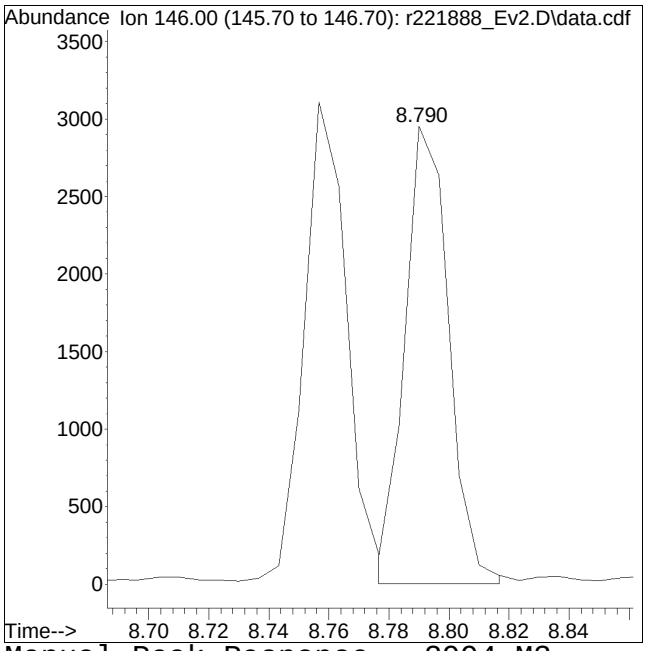
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221888_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/30/2023 12:46 pm

Compound #76: 1,4-dichlorobenzene





Original Peak Response = 3048 Manual Peak Response = 2994 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221889_Ev2.D
Acq On : 29 Nov 2023 10:09 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:07 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	224826	10.000	ppbV	0.00
Standard Area = 222532			Recovery = 101.03%			
33) 1,4-difluorobenzene	5.370	114	829164	10.000	ppbV	0.00
Standard Area = 823848			Recovery = 100.65%			
51) chlorobenzene-D5	7.340	54	85599	10.000	ppbV	0.00
Standard Area = 84248			Recovery = 101.60%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0d	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.00%#			
53) toluene-D8	6.500	98	23309	0.255	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 2.55%#			
67) bromofluorobenzene	8.040	95	7258	0.123	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.23%#			
Target Compounds						Qvalue
2) propylene	2.155	41	2176M6	0.156	ppbV	
3) dichlorodifluoromethane	2.195	85	2110	0.101	ppbV	100
4) chloromethane	2.300	50	1203	0.126	ppbV	93
5) Freon-114	2.360	85	3194	0.109	ppbV	99
6) vinyl chloride	2.430	62	1403	0.105	ppbV	95
7) 1,3-butadiene	2.500	54	972	0.104	ppbV	96
8) bromomethane	2.625	94	1094	0.112	ppbV	96
9) chloroethane	2.700	64	581	0.117	ppbV #	79
10) ethanol	2.745	31	4563	1.215	ppbV	97
11) vinyl bromide	2.860	106	1079	0.108	ppbV	93
12) acrolein	2.908	56	538	0.130	ppbV #	52
13) acetone	2.971	43	5854	0.789	ppbV #	98
14) trichlorofluoromethane	3.052	101	1306	0.108	ppbV	100
15) isopropyl alcohol	3.082	45	5144	0.408	ppbV	97
16) acrylonitrile	3.187	53	934	0.117	ppbV	95
17) 1,1-dichloroethene	3.350	61	2103	0.099	ppbV	98
18) tertiary butyl alcohol	3.375	59	3693	0.124	ppbV #	82
19) methylene chloride	3.405	49	3443	0.193	ppbV	100
20) 3-chloropropene	3.465	41	2524	0.105	ppbV	98
21) carbon disulfide	3.555	76	5662	0.110	ppbV #	63
22) Freon 113	3.535	101	3309	0.107	ppbV	98
23) trans-1,2-dichloroethene	3.857	61	2601	0.110	ppbV	100
24) 1,1-dichloroethane	3.957	63	3217	0.104	ppbV	99

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221889_Ev2.D
Acq On : 29 Nov 2023 10:09 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:07 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.990	73	4627	0.106	ppbV	#	93
26) vinyl acetate	4.030	43	3864	0.123	ppbV	#	93
27) 2-butanone	4.150	43	4179	0.111	ppbV		97
28) cis-1,2-dichloroethene	4.363	61	2284	0.104	ppbV		98
29) Ethyl Acetate	4.470	61	665	0.113	ppbV		89
30) chloroform	4.503	83	3015	0.104	ppbV		96
31) Tetrahydrofuran	4.703	42	2420	0.103	ppbV		92
32) 1,2-dichloroethane	4.863	62	1604M4	0.104	ppbV		
34) hexane	4.463	57	3324	0.113	ppbV	#	68
36) 1,1,1-trichloroethane	4.990	97	2626	0.106	ppbV		94
37) benzene	5.203	78	6815	0.109	ppbV		98
38) carbon tetrachloride	5.277	117	2481	0.106	ppbV		98
39) cyclohexane	5.337	56	3699	0.113	ppbV		98
40) Dibromomethane	5.583	93	1874	0.116	ppbV	#	97
41) 1,2-dichloropropane	5.597	63	2223	0.106	ppbV		98
42) bromodichloromethane	5.683	83	3192	0.110	ppbV		98
43) 1,4-dioxane	5.717	88	1593	0.123	ppbV	#	81
44) trichloroethene	5.703	130	2978	0.107	ppbV		97
45) 2,2,4-trimethylpentane	5.723	57	10021	0.106	ppbV		99
46) heptane	5.837	43	3874	0.106	ppbV		99
47) cis-1,3-dichloropropene	6.100	75	3113	0.101	ppbV		98
48) 4-methyl-2-pentanone	6.120	43	4787M6	0.112	ppbV		
49) trans-1,3-dichloropropene	6.333	75	2443	0.099	ppbV		96
50) 1,1,2-trichloroethane	6.420	97	2371	0.102	ppbV		98
52) toluene	6.547	91	8080	0.109	ppbV		99
54) 2-hexanone	6.667	43	4109	0.101	ppbV	#	96
55) dibromochloromethane	6.740	129	3308	0.104	ppbV		99
56) 1,2-dibromoethane	6.847	107	3530	0.104	ppbV		100
57) tetrachloroethene	7.060	166	3208	0.105	ppbV		97
58) 1,1,1,2-tetrachloroethane	7.353	131	2674	0.104	ppbV		97
59) chlorobenzene	7.360	112	6320	0.102	ppbV	#	90
60) ethylbenzene	7.527	91	9203	0.101	ppbV		96
61) m+p-xylene	7.607	91	14911	0.203	ppbV		94
62) bromoform	7.653	173	2487	0.103	ppbV		100
63) styrene	7.780	104	5382	0.085	ppbV		99
64) 1,1,2,2-tetrachloroethane	7.827	83	5097	0.100	ppbV		98
65) o-xylene	7.827	91	7490	0.103	ppbV		99
66) 1,2,3-Trichloropropane	7.887	75	3864	0.098	ppbV		97
68) isopropylbenzene	8.107	105	9250	0.097	ppbV		99
69) Bromobenzene	8.153	77	5354	0.100	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221889_Ev2.D
Acq On : 29 Nov 2023 10:09 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:07 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

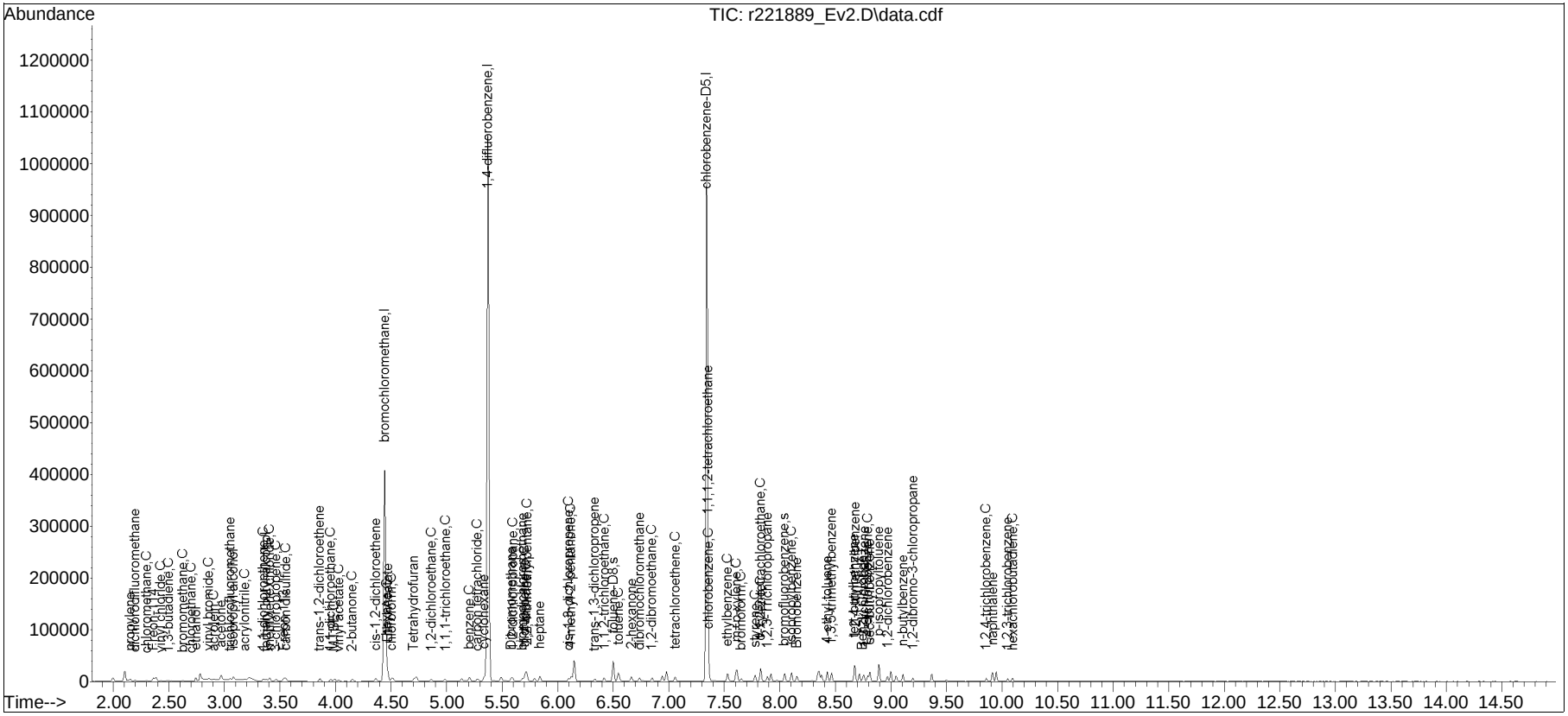
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	9545	0.096	ppbV	97
71) 1,3,5-trimethylbenzene	8.467	105	7660	0.085	ppbV	97
72) tert-butylbenzene	8.670	119	8893	0.099	ppbV	97
73) 1,2,4-trimethylbenzene	8.677	105	8175	0.094	ppbV	97
74) Benzyl Chloride	8.743	91	3688	0.075	ppbV	99
75) 1,3-dichlorobenzene	8.757	146	6204	0.091	ppbV	97
76) 1,4-dichlorobenzene	8.790	146	5982	0.089	ppbV	97
77) sec-butylbenzene	8.810	105	11302	0.092	ppbV	99
78) p-isopropyltoluene	8.890	119	9977	0.091	ppbV	96
79) 1,2-dichlorobenzene	8.970	146	5767	0.090	ppbV	98
80) n-butylbenzene	9.110	91	8032	0.084	ppbV	98
81) 1,2-dibromo-3-chloropr...	9.197	75	1851	0.088	ppbV	93
82) 1,2,4-trichlorobenzene	9.857	180	3498	0.067	ppbV #	94
83) naphthalene	9.918	128	9467	0.076	ppbV	97
84) 1,2,3-trichlorobenzene	10.053	180	2793	0.061	ppbV #	93
85) hexachlorobutadiene	10.098	225	2718	0.076	ppbV #	96

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

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221889_Ev2.D
Acq On : 29 Nov 2023 10:09 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:07 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

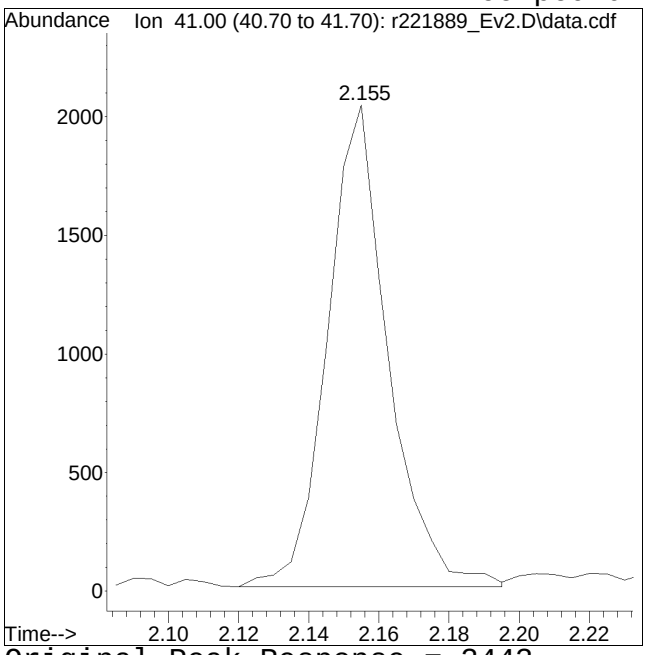


Manual Integration Report

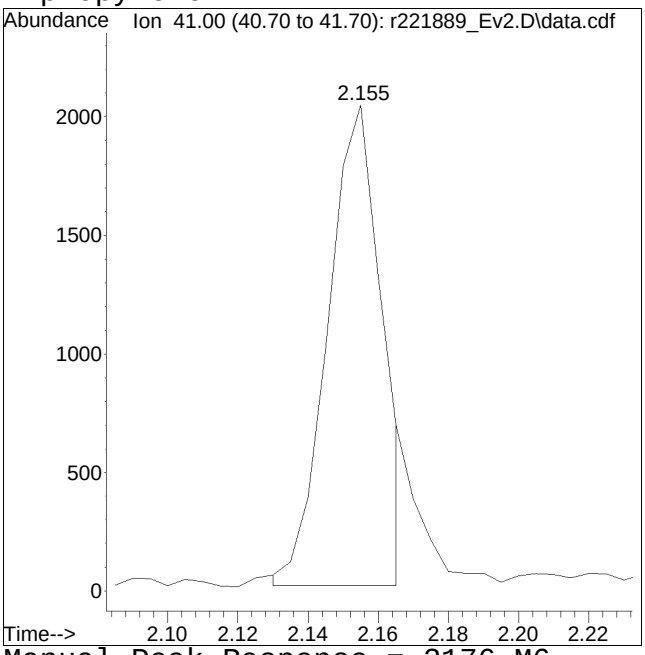
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221889_Ev2.D
Date Inj'd : 11/29/2020 0:0: 9
Sample : ITO15-SIMSTD0.1

Method : TSIM22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 2443



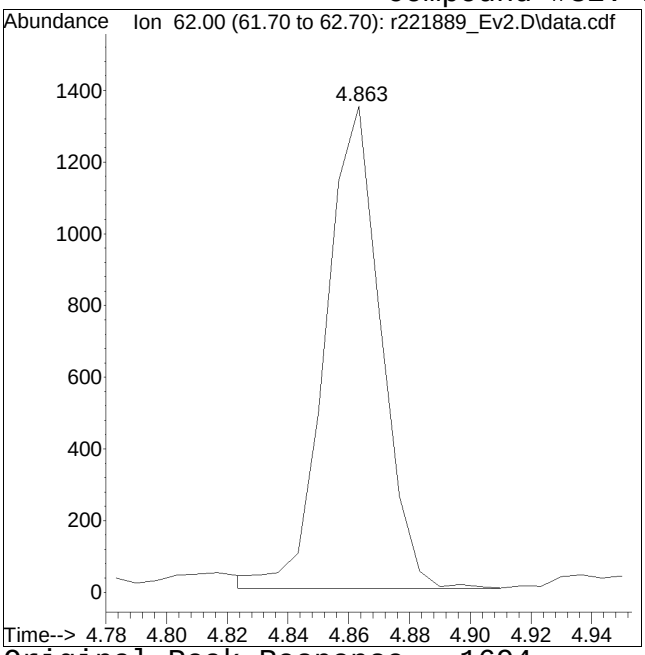
Manual Peak Response = 2176 M6

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

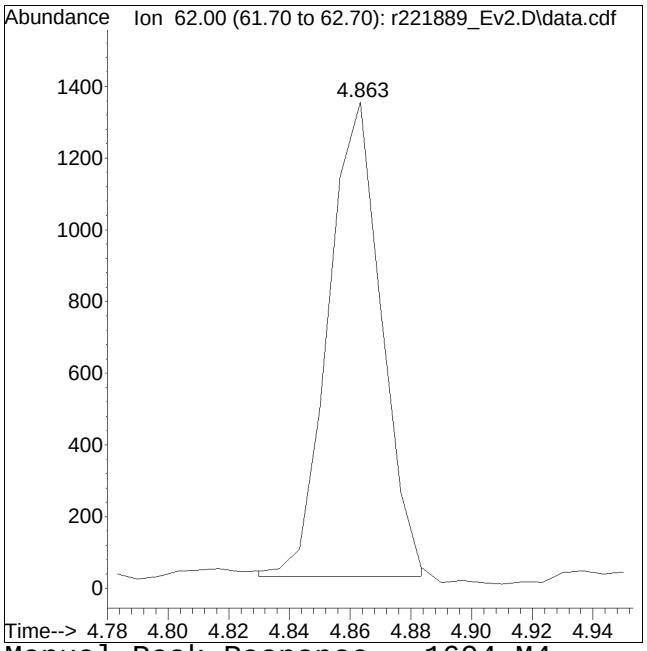
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221889_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 11/30/2023 12:46 pm

Compound #32: 1,2-dichloroethane



Original Peak Response = 1694



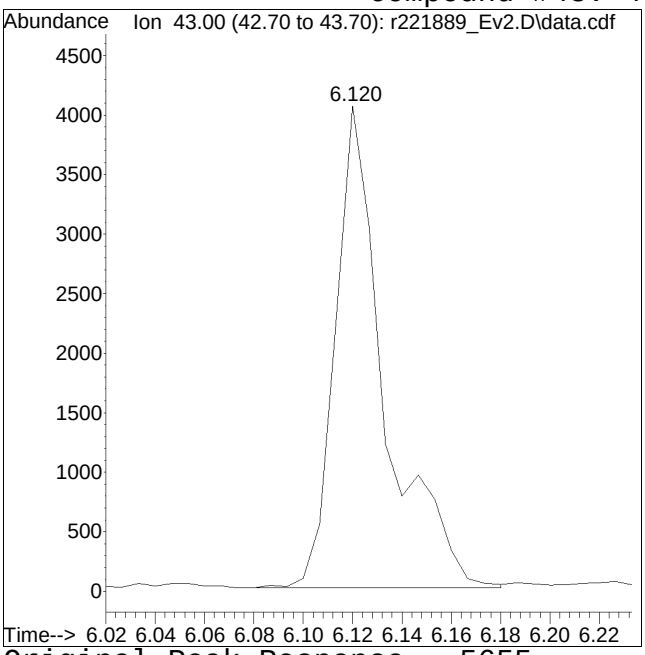
Manual Peak Response = 1604 M4

M4 = Poor automated baseline construction.

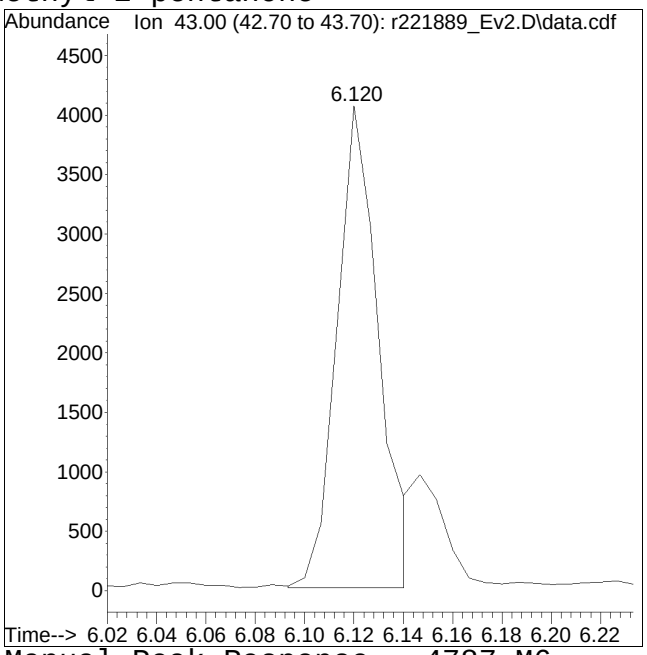
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221889_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 11/30/2023 12:46 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 5655



Manual Peak Response = 4787 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221890_Ev2.D
Acq On : 29 Nov 2023 10:39 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:13 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	222425	10.000	ppbV	0.00
Standard Area = 222532			Recovery = 99.95%			
33) 1,4-difluorobenzene	5.377	114	818402	10.000	ppbV	0.00
Standard Area = 823848			Recovery = 99.34%			
51) chlorobenzene-D5	7.340	54	85874	10.000	ppbV	0.00
Standard Area = 84248			Recovery = 101.93%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	230355	9.937	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.37%			
53) toluene-D8	6.500	98	883668	9.635	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.35%			
67) bromofluorobenzene	8.040	95	559684	9.420	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.20%			
Target Compounds						Qvalue
2) propylene	2.150	41	3628M6	0.262	ppbV	
3) dichlorodifluoromethane	2.195	85	4646	0.225	ppbV	99
4) chloromethane	2.300	50	2194	0.232	ppbV	97
5) Freon-114	2.360	85	6627	0.228	ppbV	100
6) vinyl chloride	2.430	62	2944	0.223	ppbV	96
7) 1,3-butadiene	2.500	54	2128	0.230	ppbV	96
8) bromomethane	2.630	94	2208	0.228	ppbV	100
9) chloroethane	2.705	64	1137	0.232	ppbV	94
10) ethanol	2.745	31	6743	1.814	ppbV	98
11) vinyl bromide	2.863	106	2296	0.233	ppbV	96
12) acrolein	2.911	56	947	0.232	ppbV #	60
13) acetone	2.971	43	8710	1.187	ppbV #	98
14) trichlorofluoromethane	3.055	101	2656	0.223	ppbV	100
15) isopropyl alcohol	3.082	45	7214	0.579	ppbV	99
16) acrylonitrile	3.187	53	1719	0.218	ppbV	97
17) 1,1-dichloroethene	3.355	61	3982	0.190	ppbV	95
18) tertiary butyl alcohol	3.380	59	5970	0.203	ppbV #	87
19) methylene chloride	3.410	49	4417	0.251	ppbV	96
20) 3-chloropropene	3.465	41	5258	0.221	ppbV	99
21) carbon disulfide	3.555	76	11458	0.224	ppbV #	82
22) Freon 113	3.540	101	6772	0.221	ppbV	99
23) trans-1,2-dichloroethene	3.863	61	5251	0.224	ppbV #	87
24) 1,1-dichloroethane	3.957	63	6668	0.219	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221890_Ev2.D
Acq On : 29 Nov 2023 10:39 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:13 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.990	73	9441	0.219	ppbV		97
26) vinyl acetate	4.030	43	6536	0.210	ppbV		96
27) 2-butanone	4.150	43	8270	0.222	ppbV		97
28) cis-1,2-dichloroethene	4.363	61	4798	0.220	ppbV		97
29) Ethyl Acetate	4.470	61	1244	0.213	ppbV		96
30) chloroform	4.510	83	6250	0.218	ppbV		98
31) Tetrahydrofuran	4.703	42	5112	0.220	ppbV		94
32) 1,2-dichloroethane	4.863	62	3847	0.252	ppbV		99
34) hexane	4.470	57	6579	0.227	ppbV		97
36) 1,1,1-trichloroethane	4.990	97	5411	0.221	ppbV		95
37) benzene	5.203	78	13395	0.217	ppbV		99
38) carbon tetrachloride	5.277	117	5016	0.217	ppbV		96
39) cyclohexane	5.337	56	7170	0.223	ppbV		98
40) Dibromomethane	5.583	93	3646	0.229	ppbV	#	99
41) 1,2-dichloropropane	5.597	63	4512	0.218	ppbV		100
42) bromodichloromethane	5.683	83	6438	0.225	ppbV		98
43) 1,4-dioxane	5.710	88	3216	0.251	ppbV		83
44) trichloroethene	5.703	130	5960	0.217	ppbV		99
45) 2,2,4-trimethylpentane	5.723	57	20819	0.224	ppbV		99
46) heptane	5.837	43	8039	0.223	ppbV		99
47) cis-1,3-dichloropropene	6.100	75	6538	0.216	ppbV		98
48) 4-methyl-2-pentanone	6.120	43	9322M6	0.222	ppbV		
49) trans-1,3-dichloropropene	6.333	75	5171	0.212	ppbV		99
50) 1,1,2-trichloroethane	6.420	97	4837	0.212	ppbV		98
52) toluene	6.547	91	15903	0.214	ppbV		99
54) 2-hexanone	6.660	43	8840	0.216	ppbV		98
55) dibromochloromethane	6.740	129	6938	0.217	ppbV		99
56) 1,2-dibromoethane	6.847	107	7239	0.212	ppbV		100
57) tetrachloroethene	7.060	166	6466	0.210	ppbV		99
58) 1,1,1,2-tetrachloroethane	7.353	131	5662	0.219	ppbV		99
59) chlorobenzene	7.360	112	13047	0.211	ppbV	#	90
60) ethylbenzene	7.527	91	18924	0.207	ppbV		94
61) m+p-xylene	7.613	91	30676	0.416	ppbV		98
62) bromoform	7.653	173	5109	0.211	ppbV		99
63) styrene	7.780	104	12447	0.196	ppbV		99
64) 1,1,2,2-tetrachloroethane	7.827	83	10552	0.206	ppbV		99
65) o-xylene	7.827	91	15438	0.211	ppbV		97
66) 1,2,3-Trichloropropane	7.887	75	8038	0.204	ppbV		99
68) isopropylbenzene	8.107	105	19891	0.208	ppbV		99
69) Bromobenzene	8.153	77	11143	0.207	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221890_Ev2.D
Acq On : 29 Nov 2023 10:39 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:13 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

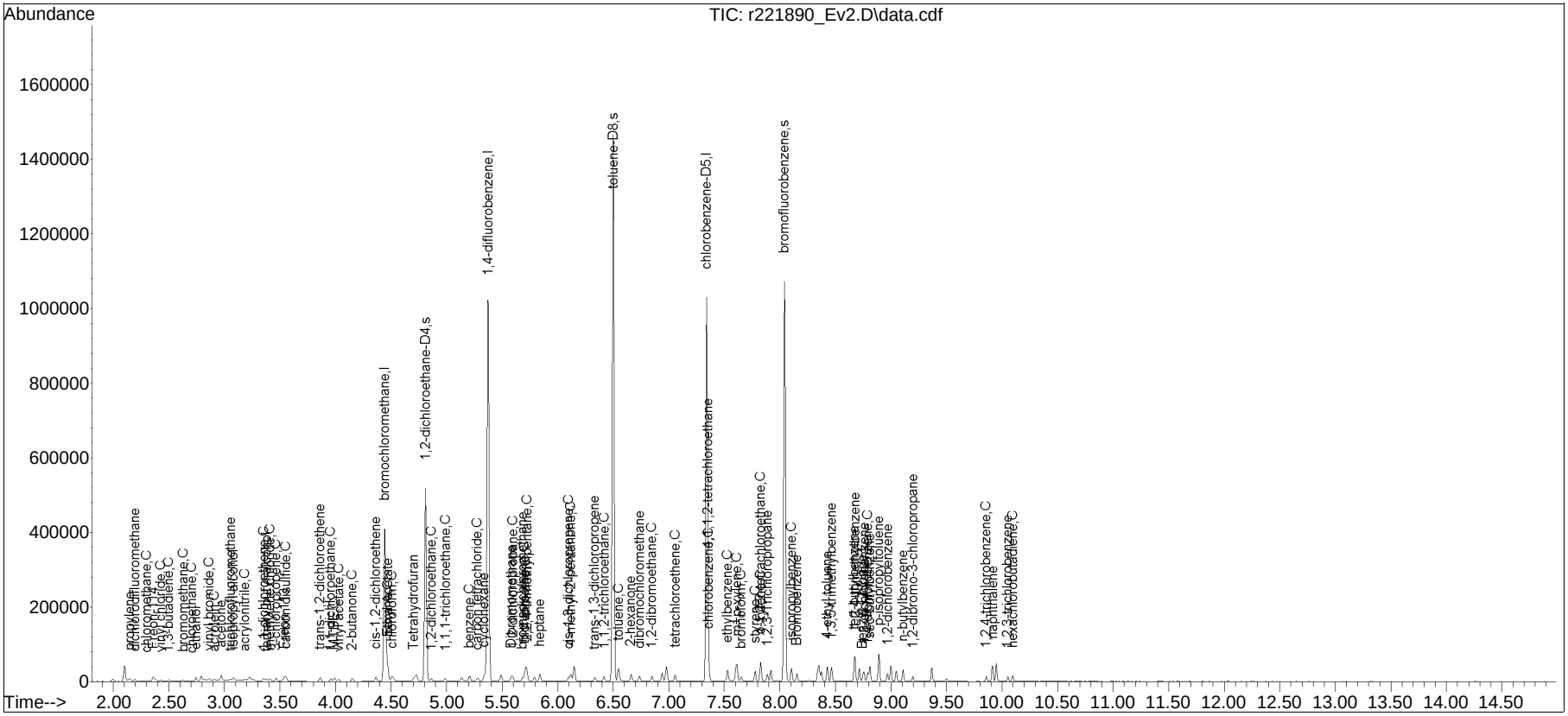
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	20446	0.206	ppbV	97
71) 1,3,5-trimethylbenzene	8.467	105	18061	0.201	ppbV	99
72) tert-butylbenzene	8.670	119	18980	0.211	ppbV	97
73) 1,2,4-trimethylbenzene	8.677	105	17832	0.204	ppbV	97
74) Benzyl Chloride	8.743	91	7866	0.160	ppbV	97
75) 1,3-dichlorobenzene	8.757	146	13166	0.192	ppbV	95
76) 1,4-dichlorobenzene	8.790	146	12817	0.191	ppbV	95
77) sec-butylbenzene	8.810	105	24726	0.200	ppbV	99
78) p-isopropyltoluene	8.890	119	22337	0.204	ppbV	97
79) 1,2-dichlorobenzene	8.970	146	12387	0.192	ppbV	98
80) n-butylbenzene	9.110	91	18183	0.190	ppbV	97
81) 1,2-dibromo-3-chloropr...	9.197	75	4065	0.192	ppbV	92
82) 1,2,4-trichlorobenzene	9.857	180	8221	0.156	ppbV #	94
83) naphthalene	9.918	128	20819	0.167	ppbV	98
84) 1,2,3-trichlorobenzene	10.053	180	6835	0.149	ppbV #	94
85) hexachlorobutadiene	10.098	225	6729	0.187	ppbV #	94

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

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221890_Ev2.D
Acq On : 29 Nov 2023 10:39 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:13 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

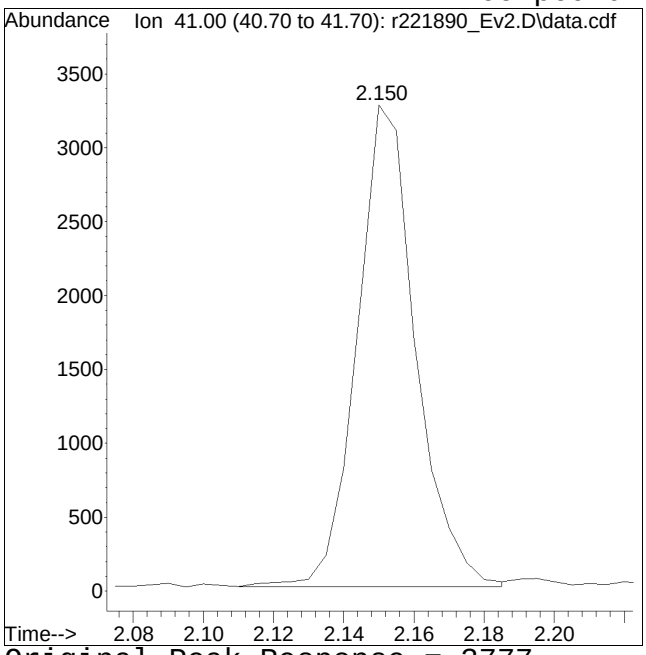


Manual Integration Report

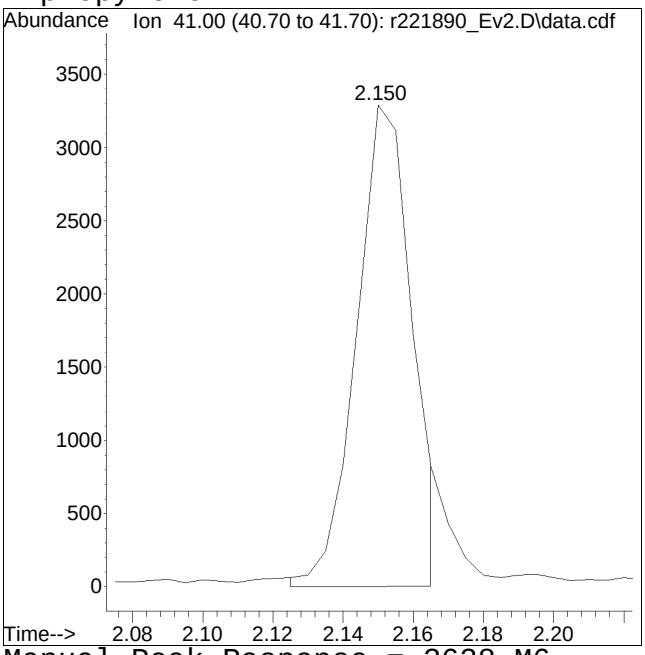
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221890_Ev2.D
Date Inj'd : 11/29/2020 0:0: 9
Sample : ITO15-SIMSTD0.2

Method : TSIM22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 3777



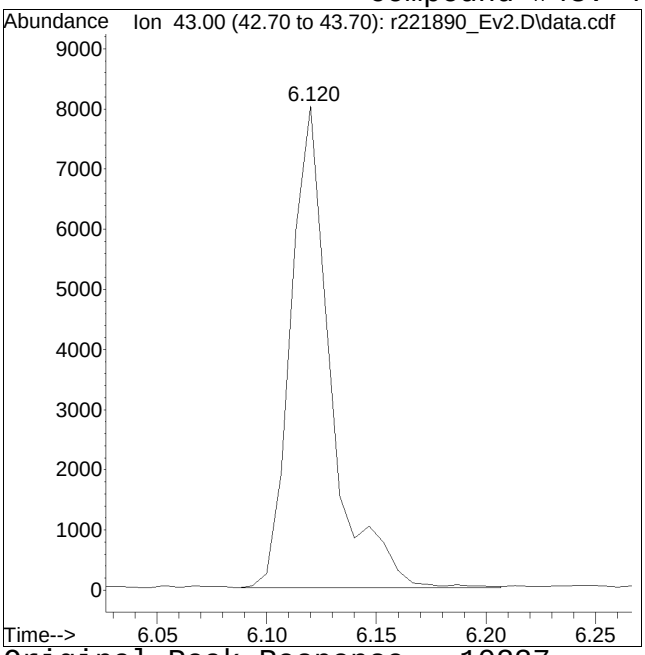
Manual Peak Response = 3628 M6

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

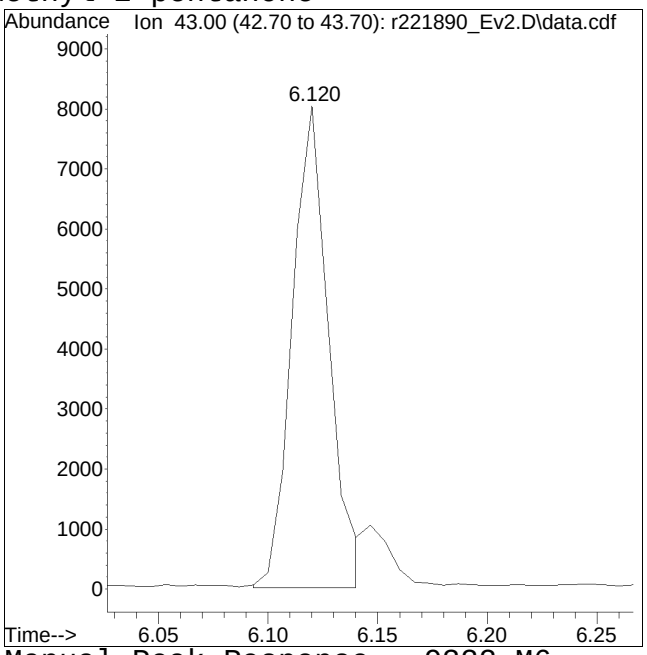
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221890_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 11/30/2023 12:46 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 10237



Manual Peak Response = 9322 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221891_Ev2.D
Acq On : 29 Nov 2023 11:11 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:19 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	223382	10.000	ppbV	0.00
Standard Area = 222532			Recovery = 100.38%			
33) 1,4-difluorobenzene	5.370	114	815860	10.000	ppbV	0.00
Standard Area = 823848			Recovery = 99.03%			
51) chlorobenzene-D5	7.340	54	85256	10.000	ppbV	0.00
Standard Area = 84248			Recovery = 101.20%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	229261	9.921	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.21%			
53) toluene-D8	6.500	98	874969	9.609	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.09%			
67) bromofluorobenzene	8.040	95	541162	9.174	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.74%			
Target Compounds						Qvalue
2) propylene	2.155	41	7613M6	0.548	ppbV	
3) dichlorodifluoromethane	2.195	85	11246	0.543	ppbV	99
4) chloromethane	2.300	50	5147	0.541	ppbV	100
5) Freon-114	2.360	85	16031	0.549	ppbV	98
6) vinyl chloride	2.430	62	7009	0.530	ppbV	99
7) 1,3-butadiene	2.500	54	5134	0.552	ppbV	98
8) bromomethane	2.630	94	5214	0.535	ppbV	97
9) chloroethane	2.705	64	2704	0.548	ppbV	98
10) ethanol	2.745	31	11294	3.026	ppbV	99
11) vinyl bromide	2.860	106	5481	0.553	ppbV	99
12) acrolein	2.911	56	2274	0.554	ppbV #	63
13) acetone	2.968	43	21067	2.859	ppbV	99
14) trichlorofluoromethane	3.052	101	6478	0.541	ppbV	99
15) isopropyl alcohol	3.082	45	18134	1.449	ppbV	99
16) acrylonitrile	3.184	53	4414	0.557	ppbV	99
17) 1,1-dichloroethene	3.350	61	10927	0.519	ppbV	98
18) tertiary butyl alcohol	3.375	59	15044	0.508	ppbV	95
19) methylene chloride	3.410	49	10166	0.574	ppbV	95
20) 3-chloropropene	3.465	41	12947	0.542	ppbV	99
21) carbon disulfide	3.555	76	28115	0.548	ppbV #	93
22) Freon 113	3.535	101	16611	0.540	ppbV	98
23) trans-1,2-dichloroethene	3.857	61	12843	0.546	ppbV	99
24) 1,1-dichloroethane	3.957	63	16362	0.535	ppbV	100

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221891_Ev2.D
Acq On : 29 Nov 2023 11:11 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:19 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.990	73	23528	0.544	ppbV		100
26) vinyl acetate	4.030	43	17113	0.546	ppbV		95
27) 2-butanone	4.150	43	20395	0.545	ppbV		100
28) cis-1,2-dichloroethene	4.363	61	11720	0.536	ppbV		98
29) Ethyl Acetate	4.470	61	3197	0.546	ppbV		84
30) chloroform	4.503	83	15291	0.531	ppbV		99
31) Tetrahydrofuran	4.703	42	12528	0.537	ppbV		97
32) 1,2-dichloroethane	4.863	62	8614M4	0.561	ppbV		
34) hexane	4.463	57	16298	0.564	ppbV		89
36) 1,1,1-trichloroethane	4.983	97	13210	0.542	ppbV		99
37) benzene	5.203	78	32959	0.536	ppbV		100
38) carbon tetrachloride	5.277	117	12432	0.541	ppbV		100
39) cyclohexane	5.337	56	17043	0.531	ppbV		99
40) Dibromomethane	5.583	93	8711	0.550	ppbV	#	99
41) 1,2-dichloropropane	5.597	63	11113	0.538	ppbV		99
42) bromodichloromethane	5.683	83	15804	0.554	ppbV		100
43) 1,4-dioxane	5.710	88	7283	0.570	ppbV		88
44) trichloroethene	5.703	130	14798	0.541	ppbV		99
45) 2,2,4-trimethylpentane	5.717	57	51368	0.554	ppbV		98
46) heptane	5.837	43	19746	0.549	ppbV		99
47) cis-1,3-dichloropropene	6.100	75	16256	0.538	ppbV		97
48) 4-methyl-2-pentanone	6.113	43	22738M6	0.542	ppbV		
49) trans-1,3-dichloropropene	6.333	75	13020	0.534	ppbV		100
50) 1,1,2-trichloroethane	6.420	97	11998	0.527	ppbV		99
52) toluene	6.547	91	38905	0.528	ppbV		100
54) 2-hexanone	6.660	43	21433	0.527	ppbV		98
55) dibromochloromethane	6.740	129	17097	0.540	ppbV		99
56) 1,2-dibromoethane	6.847	107	17636	0.521	ppbV		100
57) tetrachloroethene	7.060	166	16105	0.528	ppbV		100
58) 1,1,1,2-tetrachloroethane	7.353	131	13778	0.537	ppbV		99
59) chlorobenzene	7.360	112	32458	0.527	ppbV		92
60) ethylbenzene	7.527	91	46686	0.515	ppbV		94
61) m+p-xylene	7.613	91	76904	1.051	ppbV		98
62) bromoform	7.653	173	12796	0.531	ppbV		100
63) styrene	7.780	104	31195	0.495	ppbV		99
64) 1,1,2,2-tetrachloroethane	7.827	83	26327	0.517	ppbV		100
65) o-xylene	7.827	91	38883	0.535	ppbV		97
66) 1,2,3-Trichloropropane	7.887	75	20120	0.514	ppbV		99
68) isopropylbenzene	8.107	105	49642	0.522	ppbV		99
69) Bromobenzene	8.153	77	27702	0.519	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221891_Ev2.D
Acq On : 29 Nov 2023 11:11 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:19 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

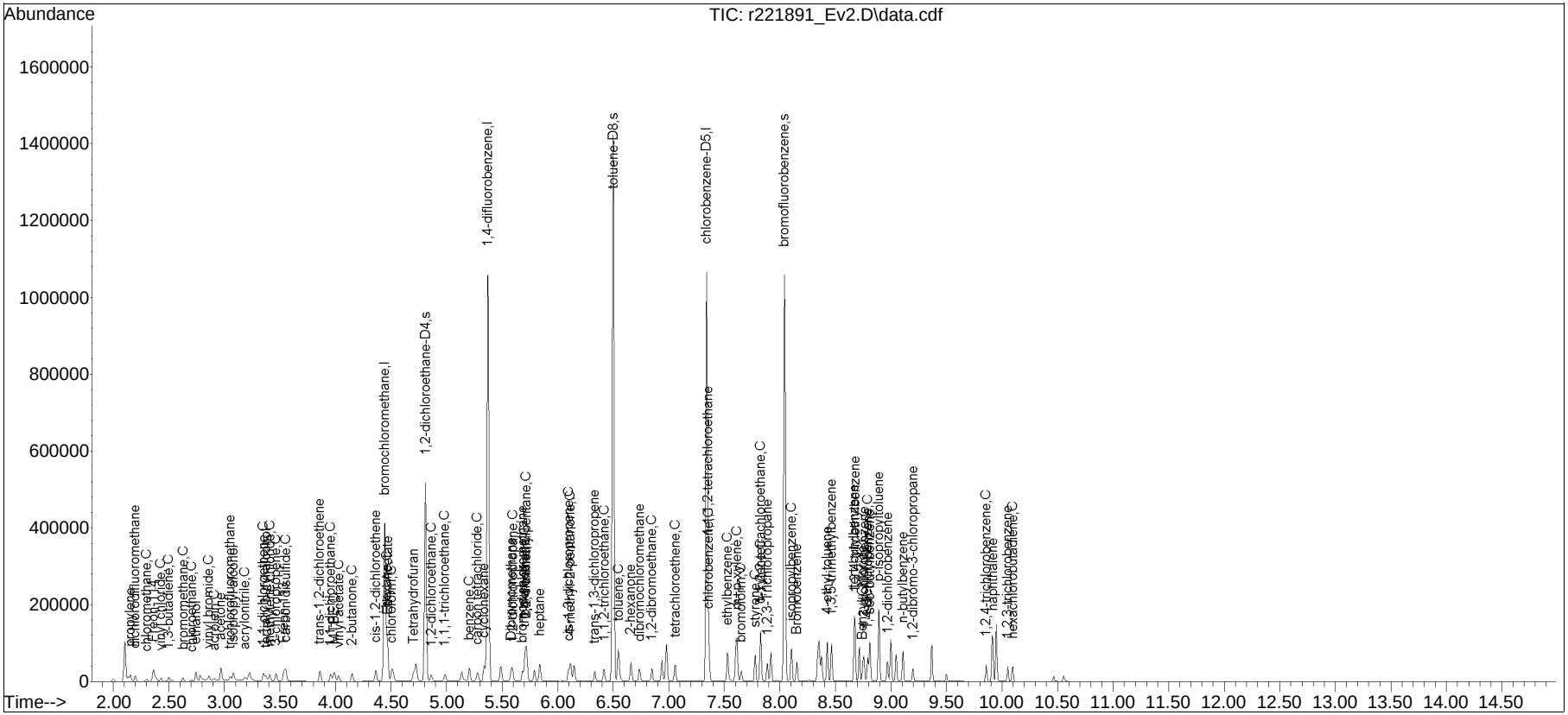
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	51680	0.524	ppbV	99
71) 1,3,5-trimethylbenzene	8.467	105	45735	0.511	ppbV	98
72) tert-butylbenzene	8.670	119	47491	0.531	ppbV	97
73) 1,2,4-trimethylbenzene	8.677	105	45172	0.521	ppbV	99
74) Benzyl Chloride	8.743	91	20652	0.424	ppbV	98
75) 1,3-dichlorobenzene	8.757	146	33888	0.497	ppbV	99
76) 1,4-dichlorobenzene	8.790	146	32678	0.489	ppbV	98
77) sec-butylbenzene	8.810	105	63028	0.513	ppbV	99
78) p-isopropyltoluene	8.890	119	56530	0.520	ppbV	97
79) 1,2-dichlorobenzene	8.970	146	31144	0.486	ppbV	98
80) n-butylbenzene	9.110	91	47057	0.496	ppbV	99
81) 1,2-dibromo-3-chloropr...	9.197	75	10438	0.497	ppbV	93
82) 1,2,4-trichlorobenzene	9.857	180	22187	0.425	ppbV	95
83) naphthalene	9.918	128	58117	0.468	ppbV	98
84) 1,2,3-trichlorobenzene	10.053	180	19388	0.425	ppbV	96
85) hexachlorobutadiene	10.098	225	17652	0.494	ppbV	95

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

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221891_Ev2.D
Acq On : 29 Nov 2023 11:11 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

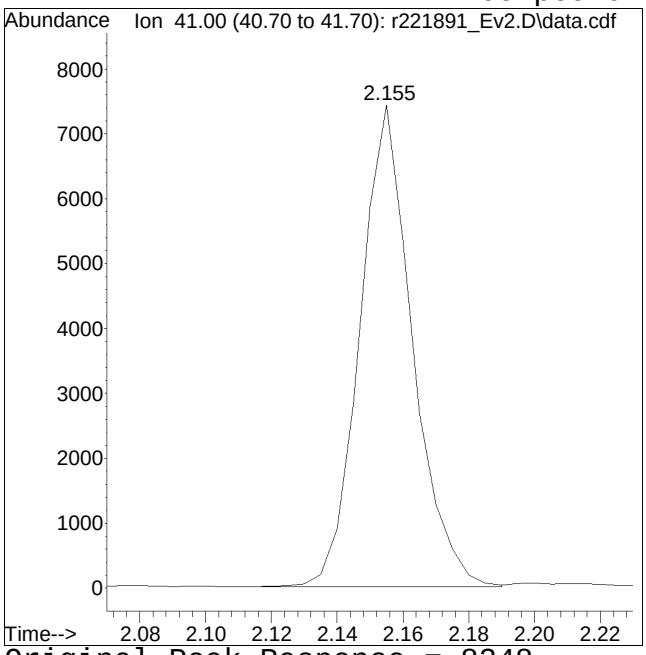
Quant Time: Nov 30 12:46:19 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



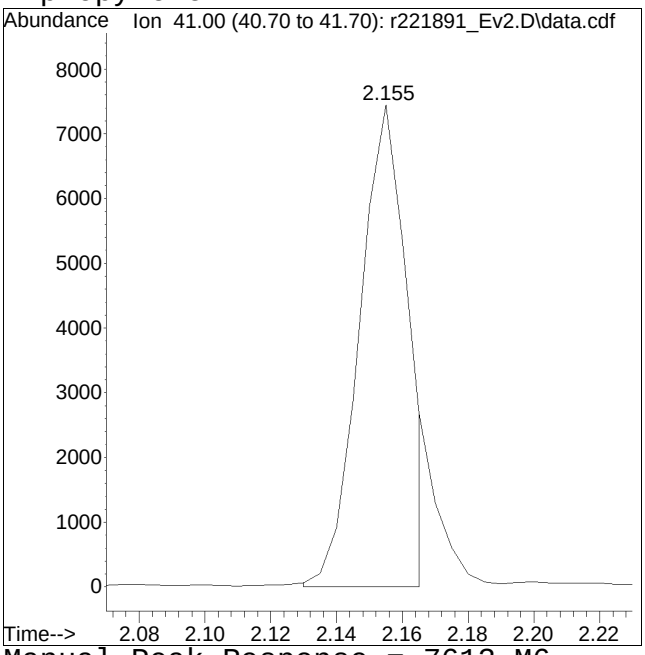
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221891_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 8248



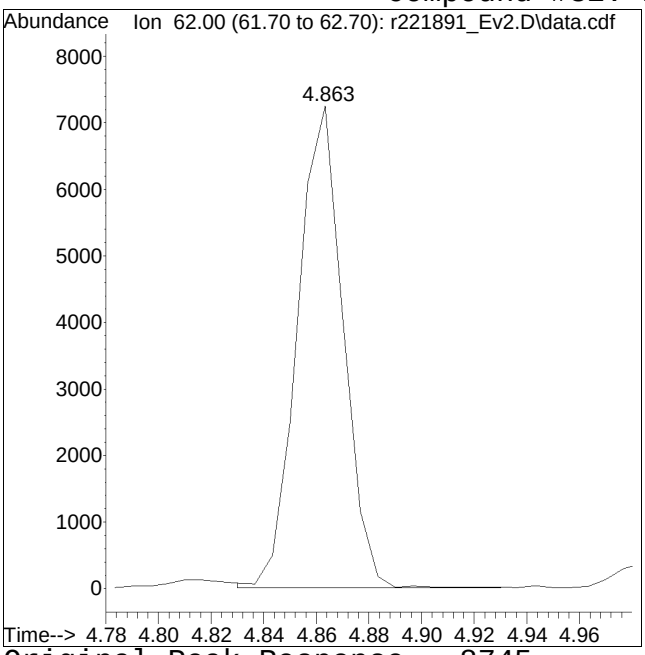
Manual Peak Response = 7613 M6

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

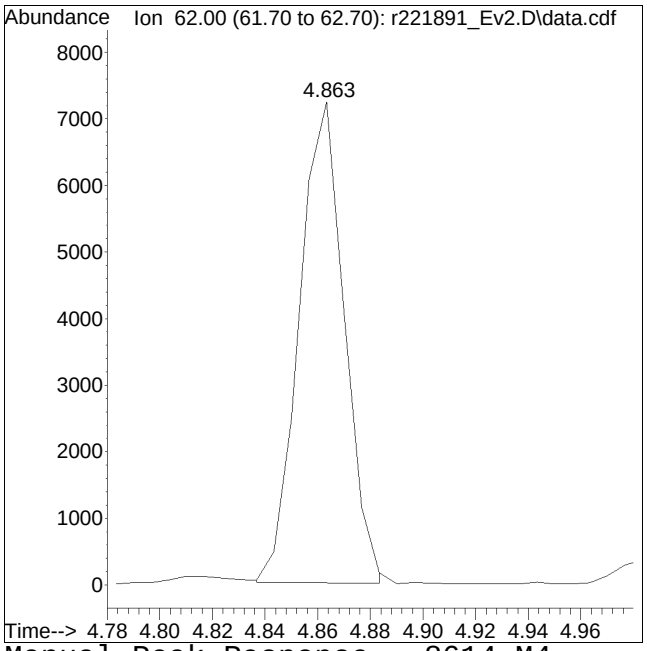
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221891_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/30/2023 12:46 pm

Compound #32: 1,2-dichloroethane



Original Peak Response = 8745



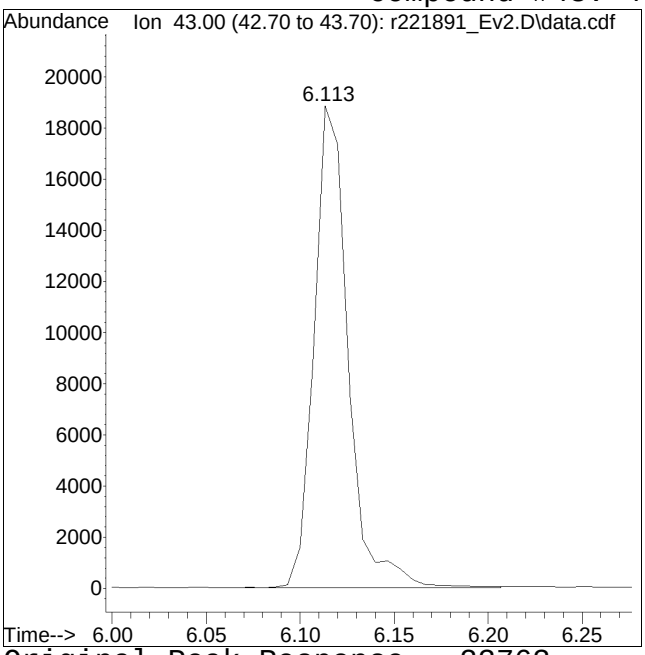
Manual Peak Response = 8614 M4

M4 = Poor automated baseline construction.

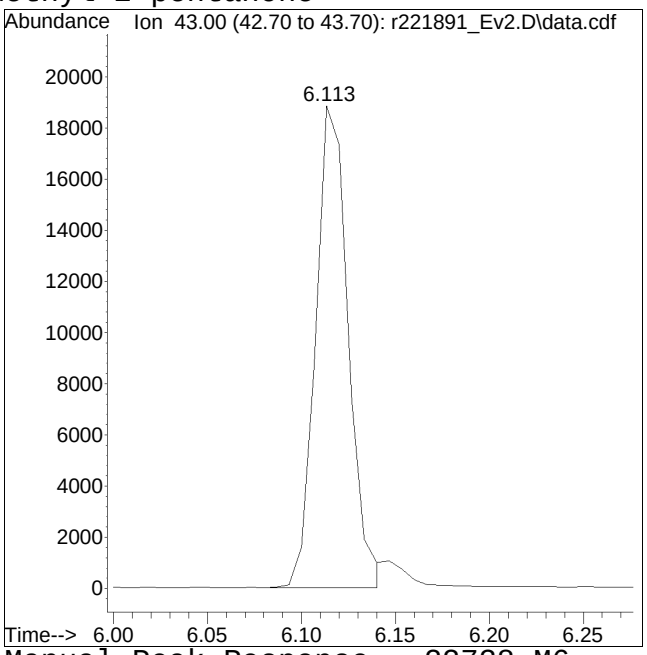
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221891_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/30/2023 12:46 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 23763



Manual Peak Response = 22738 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221892_Ev2.D
Acq On : 29 Nov 2023 11:44 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:25 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	221404	10.000	ppbV	0.00
Standard Area = 222532			Recovery = 99.49%			
33) 1,4-difluorobenzene	5.377	114	816524	10.000	ppbV	0.00
Standard Area = 823848			Recovery = 99.11%			
51) chlorobenzene-D5	7.340	54	84854	10.000	ppbV	0.00
Standard Area = 84248			Recovery = 100.72%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	230946	9.986	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.86%			
53) toluene-D8	6.500	98	895730	9.883	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.83%			
67) bromofluorobenzene	8.040	95	560350	9.544	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.44%			
Target Compounds						Qvalue
2) propylene	2.155	41	14963M6	1.087	ppbV	
3) dichlorodifluoromethane	2.200	85	20940	1.020	ppbV	100
4) chloromethane	2.300	50	10082	1.070	ppbV	99
5) Freon-114	2.365	85	31768	1.097	ppbV	99
6) vinyl chloride	2.435	62	14099	1.075	ppbV	99
7) 1,3-butadiene	2.505	54	10174	1.104	ppbV	99
8) bromomethane	2.630	94	10469	1.084	ppbV	99
9) chloroethane	2.705	64	5932	1.214	ppbV	96
10) ethanol	2.745	31	17881	4.834	ppbV	99
11) vinyl bromide	2.866	106	10781	1.098	ppbV	98
12) acrolein	2.911	56	4351	1.070	ppbV #	63
13) acetone	2.974	43	41265	5.650	ppbV	100
14) trichlorofluoromethane	3.058	101	12800	1.079	ppbV	99
15) isopropyl alcohol	3.082	45	33325	2.687	ppbV	100
16) acrylonitrile	3.190	53	8372	1.067	ppbV	100
17) 1,1-dichloroethene	3.355	61	22984	1.101	ppbV	99
18) tertiary butyl alcohol	3.380	59	27788	0.948	ppbV	94
19) methylene chloride	3.410	49	19608	1.117	ppbV	99
20) 3-chloropropene	3.470	41	25425	1.075	ppbV	99
21) carbon disulfide	3.555	76	55499M3	1.091	ppbV	
22) Freon 113	3.540	101	32475	1.065	ppbV	100
23) trans-1,2-dichloroethene	3.863	61	25420	1.090	ppbV	92
24) 1,1-dichloroethane	3.963	63	32102	1.059	ppbV	99

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221892_Ev2.D
Acq On : 29 Nov 2023 11:44 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:25 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.990	73	46430	1.084	ppbV		99
26) vinyl acetate	4.030	43	33901	1.092	ppbV		98
27) 2-butanone	4.150	43	40958	1.105	ppbV		99
28) cis-1,2-dichloroethene	4.363	61	22888	1.056	ppbV		94
29) Ethyl Acetate	4.470	61	6281	1.082	ppbV		98
30) chloroform	4.510	83	30351	1.063	ppbV		99
31) Tetrahydrofuran	4.703	42	24945	1.079	ppbV		98
32) 1,2-dichloroethane	4.863	62	16474M4	1.082	ppbV		
34) hexane	4.470	57	31868	1.101	ppbV		94
36) 1,1,1-trichloroethane	4.990	97	26315	1.078	ppbV		95
37) benzene	5.210	78	64870	1.054	ppbV		97
38) carbon tetrachloride	5.283	117	24364	1.058	ppbV		99
39) cyclohexane	5.337	56	34866	1.086	ppbV		98
40) Dibromomethane	5.583	93	17054	1.075	ppbV	#	99
41) 1,2-dichloropropane	5.597	63	21810	1.055	ppbV		100
42) bromodichloromethane	5.683	83	31183	1.091	ppbV		99
43) 1,4-dioxane	5.710	88	14102	1.103	ppbV		92
44) trichloroethene	5.710	130	28843	1.053	ppbV		98
45) 2,2,4-trimethylpentane	5.723	57	102186	1.102	ppbV		99
46) heptane	5.843	43	39341	1.093	ppbV	#	95
47) cis-1,3-dichloropropene	6.100	75	31786	1.050	ppbV		100
48) 4-methyl-2-pentanone	6.113	43	45037M6	1.073	ppbV		
49) trans-1,3-dichloropropene	6.333	75	25808	1.058	ppbV		99
50) 1,1,2-trichloroethane	6.420	97	23668	1.039	ppbV		99
52) toluene	6.547	91	76951	1.048	ppbV		100
54) 2-hexanone	6.660	43	43082	1.064	ppbV		99
55) dibromochloromethane	6.740	129	33664	1.068	ppbV		99
56) 1,2-dibromoethane	6.853	107	34977	1.038	ppbV		98
57) tetrachloroethene	7.060	166	31256	1.030	ppbV		98
58) 1,1,1,2-tetrachloroethane	7.353	131	26872	1.052	ppbV		99
59) chlorobenzene	7.367	112	63372	1.035	ppbV		99
60) ethylbenzene	7.533	91	93011	1.030	ppbV		98
61) m+p-xylene	7.613	91	152397	2.093	ppbV		98
62) bromoform	7.653	173	25370	1.058	ppbV		99
63) styrene	7.780	104	62748	1.001	ppbV		99
64) 1,1,2,2-tetrachloroethane	7.827	83	52108	1.028	ppbV		99
65) o-xylene	7.827	91	76015	1.050	ppbV		97
66) 1,2,3-Trichloropropane	7.887	75	39676	1.018	ppbV		99
68) isopropylbenzene	8.107	105	97980	1.035	ppbV		98
69) Bromobenzene	8.153	77	54838	1.031	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221892_Ev2.D
Acq On : 29 Nov 2023 11:44 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:25 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

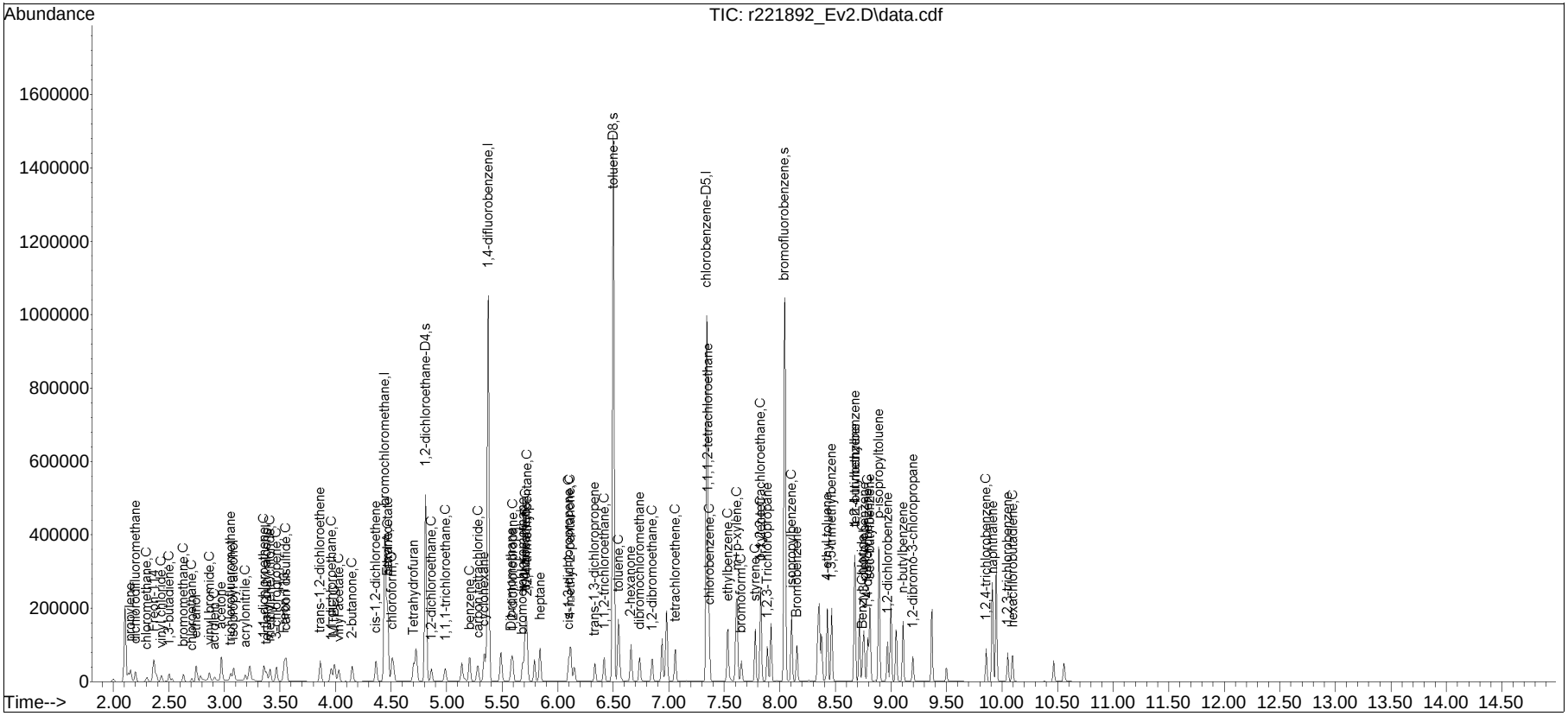
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	102878	1.048	ppbV	98
71) 1,3,5-trimethylbenzene	8.467	105	91264	1.025	ppbV	98
72) tert-butylbenzene	8.677	119	94026	1.056	ppbV	99
73) 1,2,4-trimethylbenzene	8.677	105	90199	1.045	ppbV	96
74) Benzyl Chloride	8.743	91	43389	0.894	ppbV	98
75) 1,3-dichlorobenzene	8.757	146	66766	0.984	ppbV	98
76) 1,4-dichlorobenzene	8.790	146	65781	0.990	ppbV	97
77) sec-butylbenzene	8.810	105	126361	1.033	ppbV	98
78) p-isopropyltoluene	8.890	119	112240	1.037	ppbV	97
79) 1,2-dichlorobenzene	8.970	146	62320	0.976	ppbV	97
80) n-butylbenzene	9.110	91	93949	0.995	ppbV	97
81) 1,2-dibromo-3-chloropr...	9.197	75	20973	1.003	ppbV	94
82) 1,2,4-trichlorobenzene	9.857	180	46160	0.887	ppbV	97
83) naphthalene	9.918	128	122200	0.989	ppbV	98
84) 1,2,3-trichlorobenzene	10.053	180	40015	0.882	ppbV	97
85) hexachlorobutadiene	10.098	225	34875	0.980	ppbV	96

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

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221892_Ev2.D
Acq On : 29 Nov 2023 11:44 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:25 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

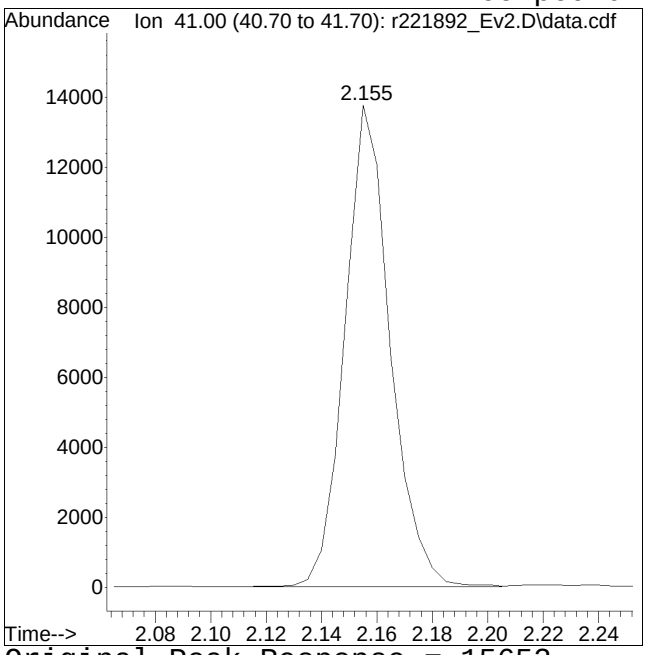


Manual Integration Report

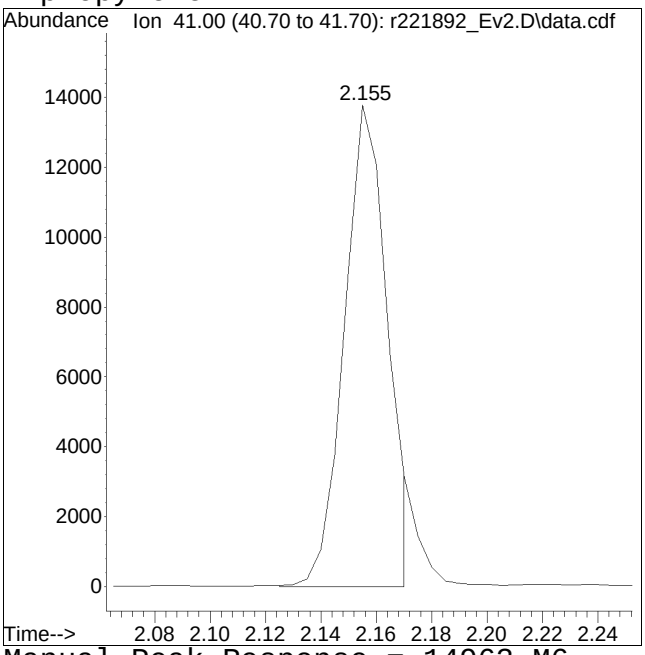
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221892_Ev2.D
Date Inj'd : 11/29/2020 0:1: 4
Sample : ITO15-SIMSTD1.0

Method : TSIM22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 15652



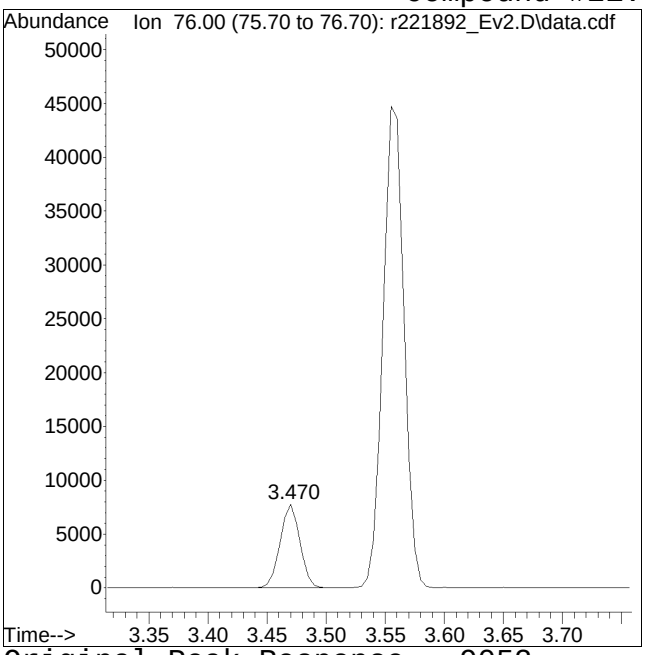
Manual Peak Response = 14963 M6

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

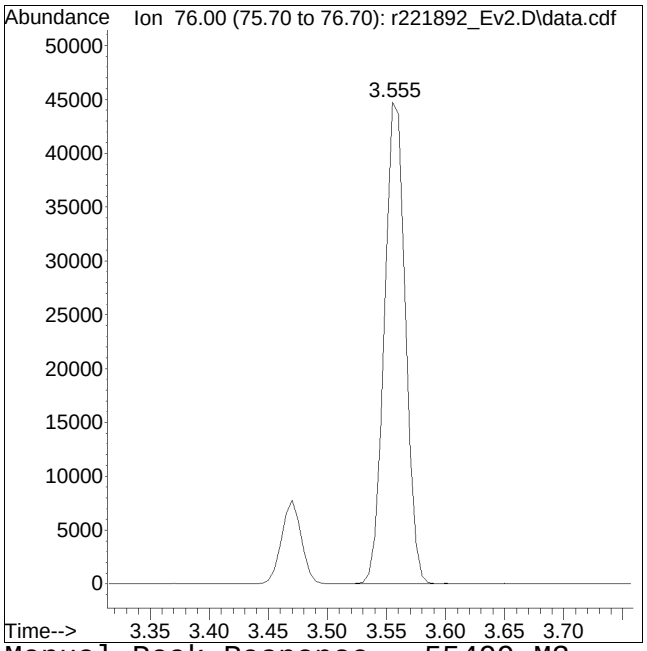
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221892_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:46 pm

Compound #21: carbon disulfide



Original Peak Response = 9052



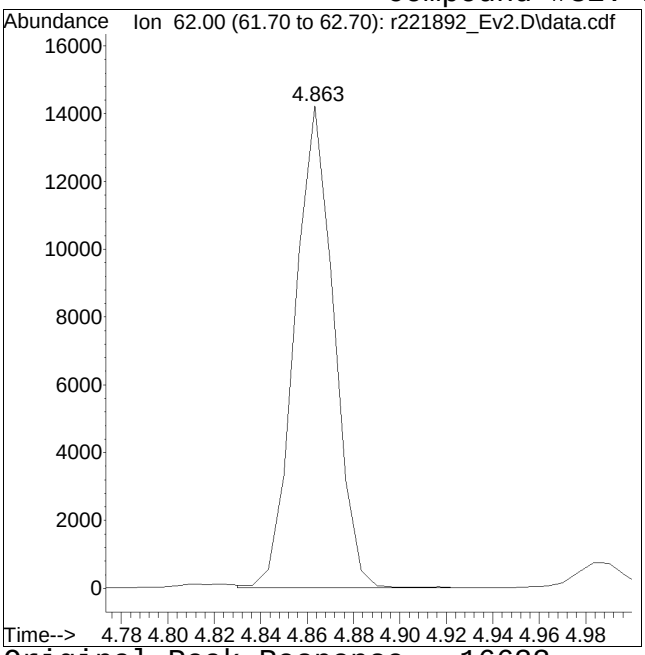
Manual Peak Response = 55499 M3

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

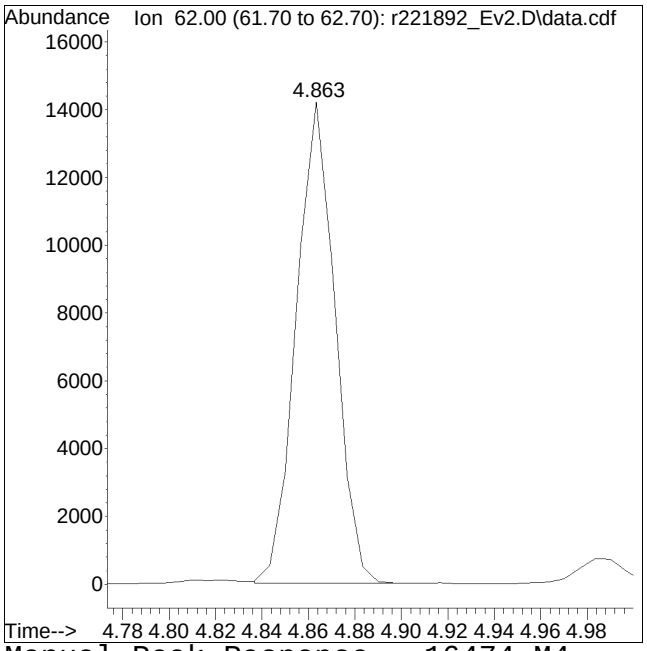
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221892_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:46 pm

Compound #32: 1,2-dichloroethane



Original Peak Response = 16633



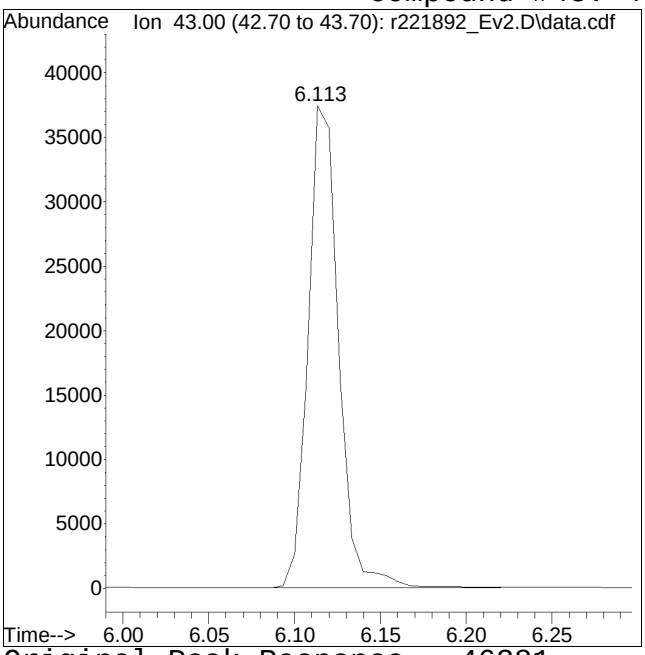
Manual Peak Response = 16474 M4

M4 = Poor automated baseline construction.

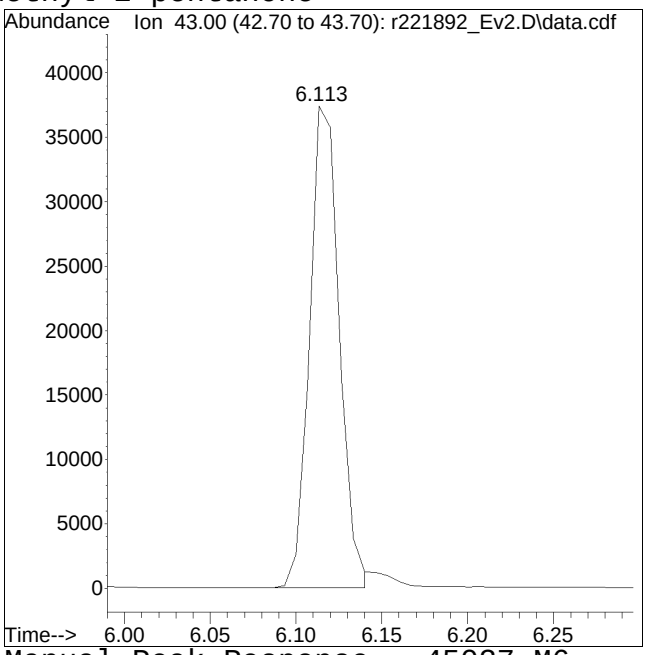
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221892_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:46 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 46381



Manual Peak Response = 45037 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221893_Ev2.D
Acq On : 30 Nov 2023 12:16 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:43:36 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:11:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	222532	10.000	ppbV	0.01
Standard Area = 222532			Recovery = 100.00%			
33) 1,4-difluorobenzene	5.370	114	823848	10.000	ppbV	0.00
Standard Area = 823848			Recovery = 100.00%			
51) chlorobenzene-D5	7.340	54	84248	10.000	ppbV	0.00
Standard Area = 84248			Recovery = 100.00%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	233355	10.604	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.04%			
53) toluene-D8	6.500	98	899821	11.115	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.15%			
67) bromofluorobenzene	8.040	95	582901	11.005	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.05%			
Target Compounds						Qvalue
2) propylene	2.155	41	64990M6	4.237	ppbV	
3) dichlorodifluoromethane	2.195	85	103139	4.856	ppbV	99
4) chloromethane	2.300	50	47353	4.669	ppbV	98
5) Freon-114	2.360	85	145512	4.692	ppbV	98
6) vinyl chloride	2.430	62	65931	4.265	ppbV	99
7) 1,3-butadiene	2.500	54	46317	4.245	ppbV #	81
8) bromomethane	2.625	94	48517	4.654	ppbV	97
9) chloroethane	2.705	64	24566	3.978	ppbV	96
10) ethanol	2.740	31	92951	22.051	ppbV	91
11) vinyl bromide	2.860	106	49353	5.122	ppbV	97
12) acrolein	2.908	56	20427	4.104	ppbV #	80
13) acetone	2.965	43	183529	17.991	ppbV #	87
14) trichlorofluoromethane	3.052	101	59615	4.557	ppbV	99
15) isopropyl alcohol	3.073	45	155821	9.996	ppbV	99
16) acrylonitrile	3.184	53	39442	4.591	ppbV	99
17) 1,1-dichloroethene	3.350	61	104943	4.447	ppbV	93
18) tertiary butyl alcohol	3.365	59	147383	5.068	ppbV	98
19) methylene chloride	3.405	49	88181	4.737	ppbV	91
20) 3-chloropropene	3.465	41	118913	4.568	ppbV	94
21) carbon disulfide	3.555	76	255718	4.862	ppbV	99
22) Freon 113	3.535	101	153285	4.989	ppbV	94
23) trans-1,2-dichloroethene	3.857	61	117184	4.351	ppbV	95
24) 1,1-dichloroethane	3.957	63	152360	4.593	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221893_Ev2.D
Acq On : 30 Nov 2023 12:16 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:43:36 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:11:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.983	73	215331	4.829	ppbV		95
26) vinyl acetate	4.023	43	156006	5.275	ppbV		95
27) 2-butanone	4.143	43	186228	5.112	ppbV		97
28) cis-1,2-dichloroethene	4.363	61	108882	4.462	ppbV		88
29) Ethyl Acetate	4.463	61	29170	4.742	ppbV		64
30) chloroform	4.503	83	143516	4.719	ppbV	#	98
31) Tetrahydrofuran	4.697	42	116228	4.727	ppbV		96
32) 1,2-dichloroethane	4.863	62	76508	4.539	ppbV		98
34) hexane	4.463	57	145989	4.533	ppbV	#	70
36) 1,1,1-trichloroethane	4.983	97	123167	5.225	ppbV		99
37) benzene	5.203	78	310500	4.879	ppbV		99
38) carbon tetrachloride	5.277	117	116130	5.453	ppbV		100
39) cyclohexane	5.337	56	161978	4.538	ppbV		98
40) Dibromomethane	5.583	93	80031	5.176	ppbV	#	84
41) 1,2-dichloropropane	5.590	63	104245	4.814	ppbV		99
42) bromodichloromethane	5.683	83	144127	4.943	ppbV		99
43) 1,4-dioxane	5.697	88	64470	4.738	ppbV		97
44) trichloroethene	5.703	130	138142	5.190	ppbV		98
45) 2,2,4-trimethylpentane	5.723	57	467805	4.807	ppbV		99
46) heptane	5.837	43	181586	4.968	ppbV		93
47) cis-1,3-dichloropropene	6.100	75	152650	5.159	ppbV		94
48) 4-methyl-2-pentanone	6.113	43	211670	5.237	ppbV	#	96
49) trans-1,3-dichloropropene	6.333	75	123028	5.335	ppbV		97
50) 1,1,2-trichloroethane	6.420	97	114949	5.165	ppbV		91
52) toluene	6.547	91	364351	5.232	ppbV		100
54) 2-hexanone	6.653	43	201029	5.174	ppbV		92
55) dibromochloromethane	6.740	129	156508	5.350	ppbV		99
56) 1,2-dibromoethane	6.847	107	167207	5.313	ppbV		96
57) tetrachloroethene	7.060	166	150690	4.949	ppbV		96
58) 1,1,1,2-tetrachloroethane	7.353	131	126862	5.440	ppbV		98
59) chlorobenzene	7.367	112	304034	5.194	ppbV		95
60) ethylbenzene	7.533	91	448222	5.259	ppbV		94
61) m+p-xylene	7.613	91	722792	10.717	ppbV		96
62) bromoform	7.653	173	119022	5.054	ppbV		97
63) styrene	7.780	104	311096	5.705	ppbV		97
64) 1,1,2,2-tetrachloroethane	7.827	83	251610	5.225	ppbV		98
65) o-xylene	7.827	91	359428	5.375	ppbV		99
66) 1,2,3-Trichloropropane	7.887	75	193512	5.383	ppbV		97
68) isopropylbenzene	8.107	105	469910	5.657	ppbV		99
69) Bromobenzene	8.153	77	263966	5.394	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221893_Ev2.D
Acq On : 30 Nov 2023 12:16 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:43:36 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:11:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

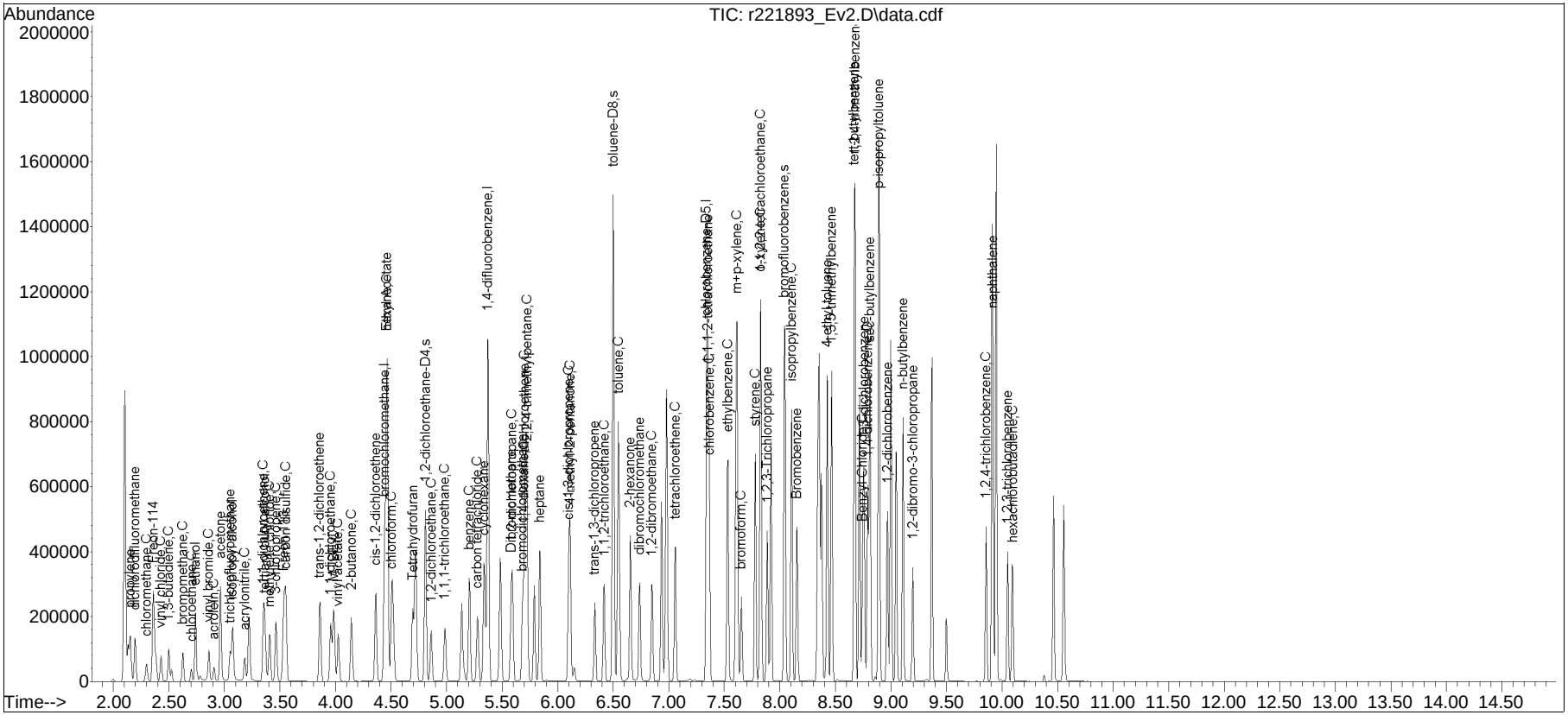
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	8.427	105	487212	5.572	ppbV		97
71) 1,3,5-trimethylbenzene	8.467	105	441798	5.888	ppbV		99
72) tert-butylbenzene	8.670	119	442212	5.638	ppbV		98
73) 1,2,4-trimethylbenzene	8.677	105	428606	5.794	ppbV	#	89
74) Benzyl Chloride	8.743	91	240845	6.054	ppbV		97
75) 1,3-dichlorobenzene	8.757	146	336758	5.742	ppbV		97
76) 1,4-dichlorobenzene	8.790	146	329855	5.786	ppbV		97
77) sec-butylbenzene	8.810	105	607250	5.886	ppbV		98
78) p-isopropyltoluene	8.890	119	537248	5.754	ppbV		99
79) 1,2-dichlorobenzene	8.970	146	316880	5.734	ppbV	#	89
80) n-butylbenzene	9.110	91	468655	5.821	ppbV	#	85
81) 1,2-dibromo-3-chloropr...	9.197	75	103757	5.980	ppbV		95
82) 1,2,4-trichlorobenzene	9.857	180	258218	5.782	ppbV		95
83) naphthalene	9.918	128	613259	6.017	ppbV		99
84) 1,2,3-trichlorobenzene	10.053	180	225175	5.811	ppbV		95
85) hexachlorobutadiene	10.098	225	176698	5.275	ppbV		98

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

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221893_Ev2.D
Acq On : 30 Nov 2023 12:16 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:43:36 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:11:02 2023
Response via : Initial Calibration

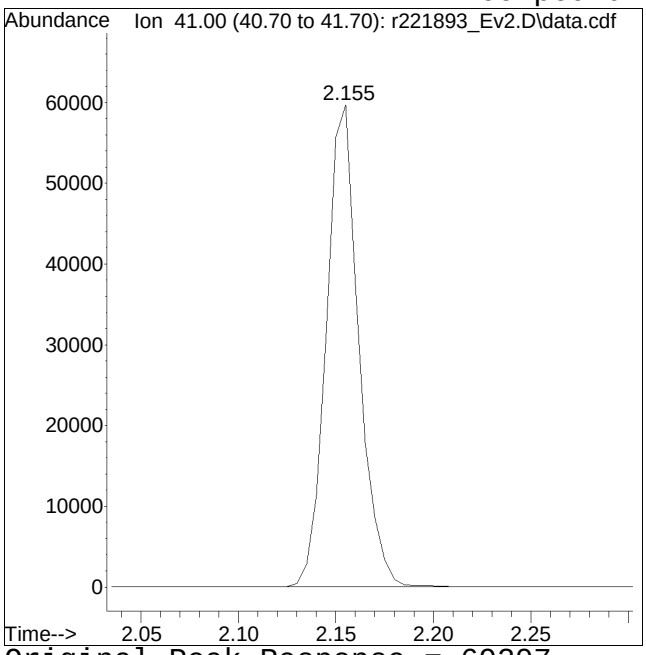


Manual Integration Report

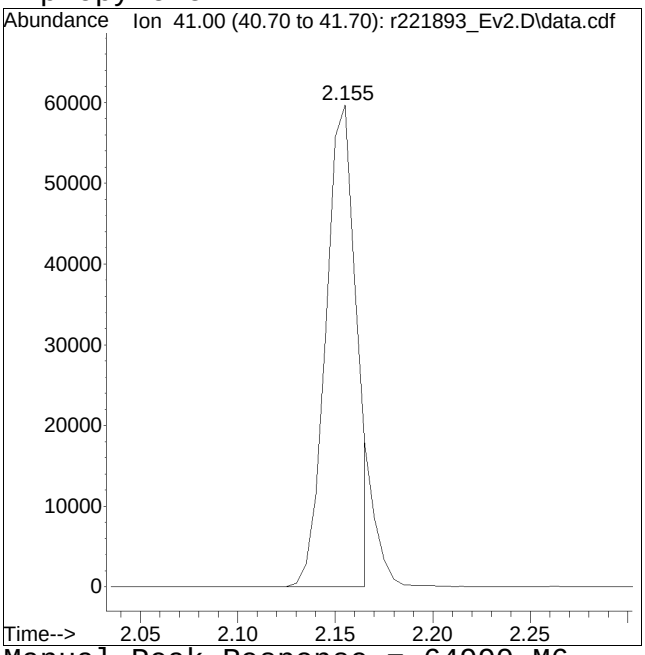
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221893_Ev2.D
Date Inj'd : 11/30/2020 0:2: 6
Sample : ITO15-SIMSTD5.0

Method : TSIM22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:43 pm

Compound #2: propylene



Original Peak Response = 69207



Manual Peak Response = 64990 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221894_Ev2.D
Acq On : 30 Nov 2023 12:49 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD010
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:31 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	227159	10.000	ppbV	0.00
Standard Area = 222532			Recovery = 102.08%			
33) 1,4-difluorobenzene	5.377	114	847379	10.000	ppbV	0.00
Standard Area = 823848			Recovery = 102.86%			
51) chlorobenzene-D5	7.340	54	83778	10.000	ppbV	0.00
Standard Area = 84248			Recovery = 99.44%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	236390	9.849	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.49%			
53) toluene-D8	6.500	98	921570	10.299	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.99%			
67) bromofluorobenzene	8.047	95	596601M3	10.292	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.92%			
Target Compounds						Qvalue
2) propylene	2.155	41	129404M6	9.159	ppbV	
3) dichlorodifluoromethane	2.200	85	182535	8.669	ppbV	100
4) chloromethane	2.300	50	96307	9.962	ppbV	100
5) Freon-114	2.365	85	284581	9.579	ppbV	98
6) vinyl chloride	2.435	62	131748	9.788	ppbV	99
7) 1,3-butadiene	2.505	54	92873	9.822	ppbV	98
8) bromomethane	2.630	94	96079	9.700	ppbV	100
9) chloroethane	2.705	64	50186	10.006	ppbV	97
10) ethanol	2.745	31	167998	44.264	ppbV	99
11) vinyl bromide	2.866	106	98205	9.747	ppbV	99
12) acrolein	2.911	56	41582	9.971	ppbV #	89
13) acetone	2.968	43	364736	48.672	ppbV	100
14) trichlorofluoromethane	3.055	101	119162	9.791	ppbV	99
15) isopropyl alcohol	3.076	45	306780	24.109	ppbV	100
16) acrylonitrile	3.187	53	79241	9.841	ppbV	99
17) 1,1-dichloroethene	3.355	61	211404	9.867	ppbV	99
18) tertiary butyl alcohol	3.365	59	292856	9.733	ppbV	100
19) methylene chloride	3.410	49	178894	9.937	ppbV	98
20) 3-chloropropene	3.470	41	242306	9.981	ppbV	98
21) carbon disulfide	3.555	76	516352	9.890	ppbV	100
22) Freon 113	3.540	101	308629	9.862	ppbV	99
23) trans-1,2-dichloroethene	3.863	61	236178	9.872	ppbV	89

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221894_Ev2.D
Acq On : 30 Nov 2023 12:49 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD010
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:31 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) 1,1-dichloroethane	3.957	63	309148	9.939	ppbV		99
25) MTBE	3.983	73	435830	9.914	ppbV		98
26) vinyl acetate	4.030	43	327460	10.281	ppbV		95
27) 2-butanone	4.143	43	379615	9.985	ppbV		99
28) cis-1,2-dichloroethene	4.363	61	219997	9.897	ppbV		96
29) Ethyl Acetate	4.470	61	60163	10.102	ppbV		66
30) chloroform	4.510	83	285984	9.761	ppbV		98
31) Tetrahydrofuran	4.697	42	235548	9.927	ppbV		99
32) 1,2-dichloroethane	4.863	62	152094	9.737	ppbV		98
34) hexane	4.470	57	290098	9.660	ppbV		77
36) 1,1,1-trichloroethane	4.990	97	273940	10.812	ppbV		95
37) benzene	5.210	78	623757	9.765	ppbV		97
38) carbon tetrachloride	5.283	117	231676	9.698	ppbV		99
39) cyclohexane	5.337	56	320441	9.617	ppbV		99
40) Dibromomethane	5.583	93	158950	9.655	ppbV	#	98
41) 1,2-dichloropropane	5.597	63	209132	9.752	ppbV		99
42) bromodichloromethane	5.683	83	286656	9.668	ppbV		100
43) 1,4-dioxane	5.697	88	136006	10.255	ppbV		96
44) trichloroethene	5.710	130	277133	9.752	ppbV		97
45) 2,2,4-trimethylpentane	5.723	57	927630	9.639	ppbV		100
46) heptane	5.843	43	365163	9.776	ppbV	#	95
47) cis-1,3-dichloropropene	6.100	75	312243	9.943	ppbV		99
48) 4-methyl-2-pentanone	6.113	43	420541	9.658	ppbV		99
49) trans-1,3-dichloropropene	6.333	75	252319	9.970	ppbV		100
50) 1,1,2-trichloroethane	6.420	97	231859	9.805	ppbV		100
52) toluene	6.547	91	723897	9.990	ppbV		100
54) 2-hexanone	6.653	43	406658	10.171	ppbV		99
55) dibromochloromethane	6.740	129	312606	10.043	ppbV		100
56) 1,2-dibromoethane	6.847	107	336566	10.121	ppbV		100
57) tetrachloroethene	7.060	166	299940	10.008	ppbV		99
58) 1,1,1,2-tetrachloroethane	7.353	131	248840	9.863	ppbV		100
59) chlorobenzene	7.367	112	602371	9.962	ppbV		99
60) ethylbenzene	7.533	91	889545	9.979	ppbV		100
61) m+p-xylene	7.613	91	1395936	19.421	ppbV		99
62) bromoform	7.653	173	237140	10.018	ppbV		99
63) styrene	7.780	104	620485	10.029	ppbV		100
64) 1,1,2,2-tetrachloroethane	7.827	83	491124	9.814	ppbV		100
65) o-xylene	7.827	91	682070	9.542	ppbV		99
66) 1,2,3-Trichloropropane	7.887	75	387430	10.067	ppbV		99
68) isopropylbenzene	8.107	105	914753	9.788	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221894_Ev2.D
Acq On : 30 Nov 2023 12:49 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD010
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:31 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

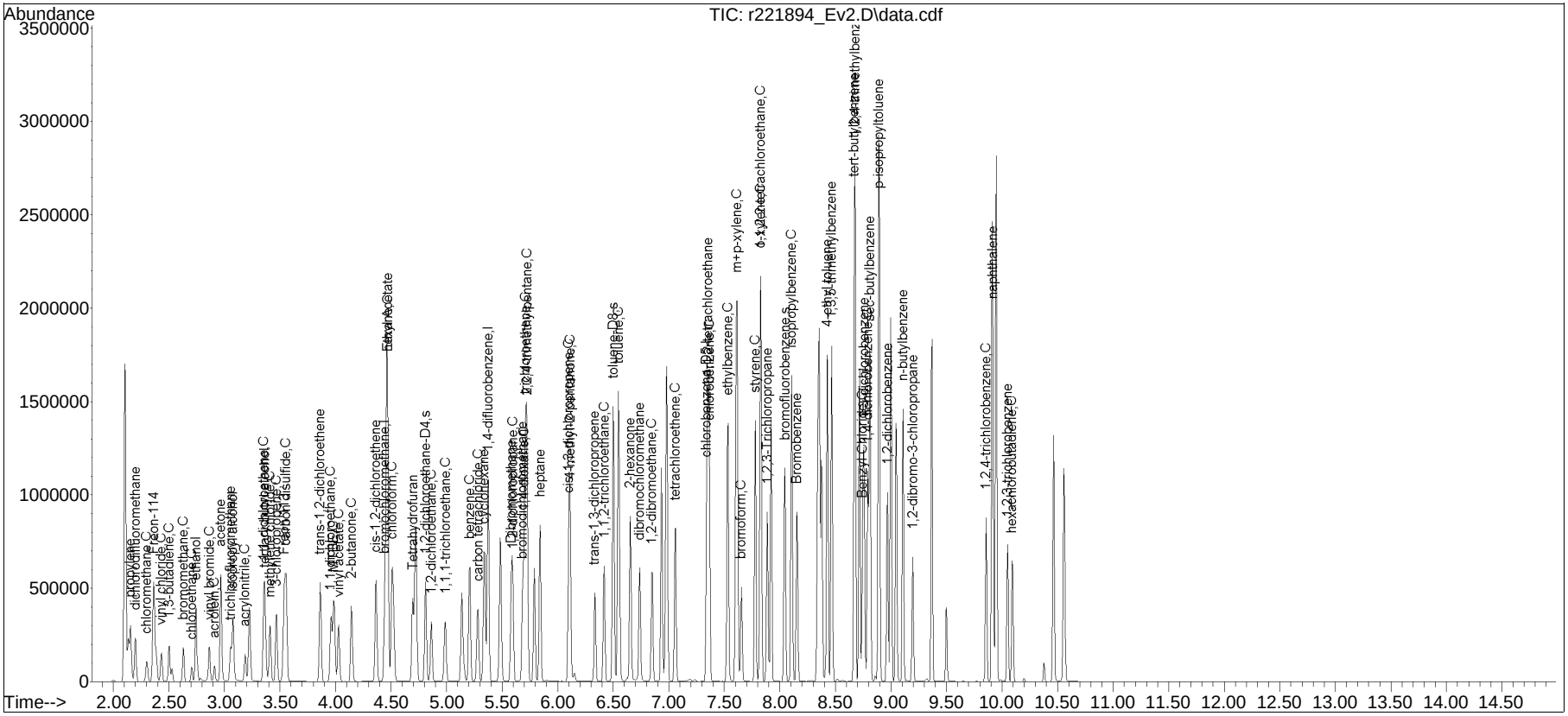
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
69) Bromobenzene	8.153	77	519130	9.888	ppbV		99
70) 4-ethyl toluene	8.427	105	947678	9.780	ppbV		99
71) 1,3,5-trimethylbenzene	8.467	105	850474	9.679	ppbV		99
72) tert-butylbenzene	8.670	119	809525	9.204	ppbV		98
73) 1,2,4-trimethylbenzene	8.677	105	778139	9.128	ppbV		100
74) Benzyl Chloride	8.743	91	501038	10.460	ppbV		99
75) 1,3-dichlorobenzene	8.757	146	648619	9.684	ppbV		99
76) 1,4-dichlorobenzene	8.790	146	644311	9.821	ppbV		99
77) sec-butylbenzene	8.810	105	1157289	9.582	ppbV		99
78) p-isopropyltoluene	8.890	119	972864	9.105	ppbV		97
79) 1,2-dichlorobenzene	8.970	146	619373	9.828	ppbV		99
80) n-butylbenzene	9.110	91	890993	9.559	ppbV		97
81) 1,2-dibromo-3-chloropr...	9.197	75	194824	9.441	ppbV		94
82) 1,2,4-trichlorobenzene	9.857	180	502929	9.793	ppbV		99
83) naphthalene	9.918	128	1133194	9.291	ppbV		99
84) 1,2,3-trichlorobenzene	10.053	180	440478	9.836	ppbV		98
85) hexachlorobutadiene	10.090	225	317875	9.045	ppbV	#	95

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

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221894_Ev2.D
Acq On : 30 Nov 2023 12:49 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD010
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:31 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

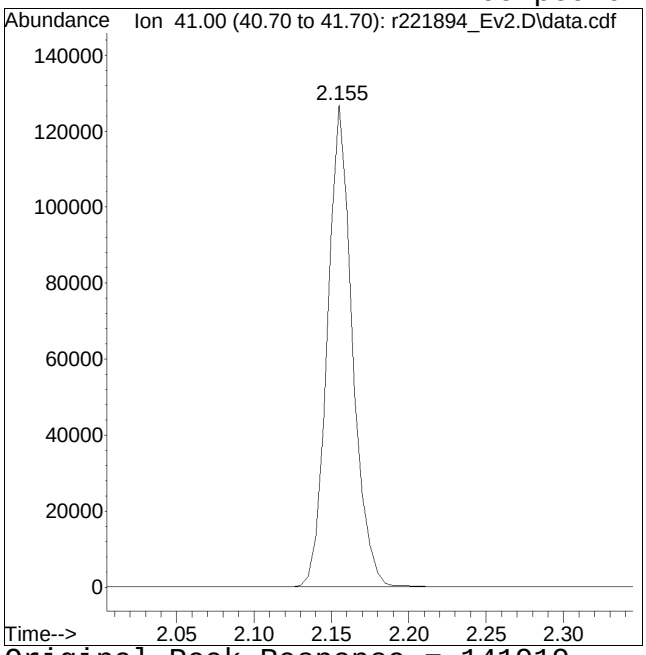


Manual Integration Report

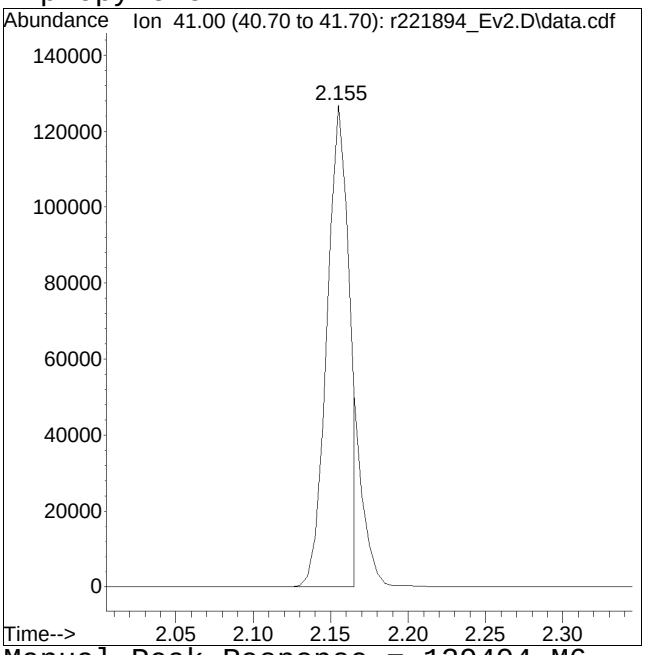
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221894_Ev2.D
Date Inj'd : 11/30/2020 0:2: 9
Sample : ITO15-SIMSTD010

Method : TSIM22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 141919



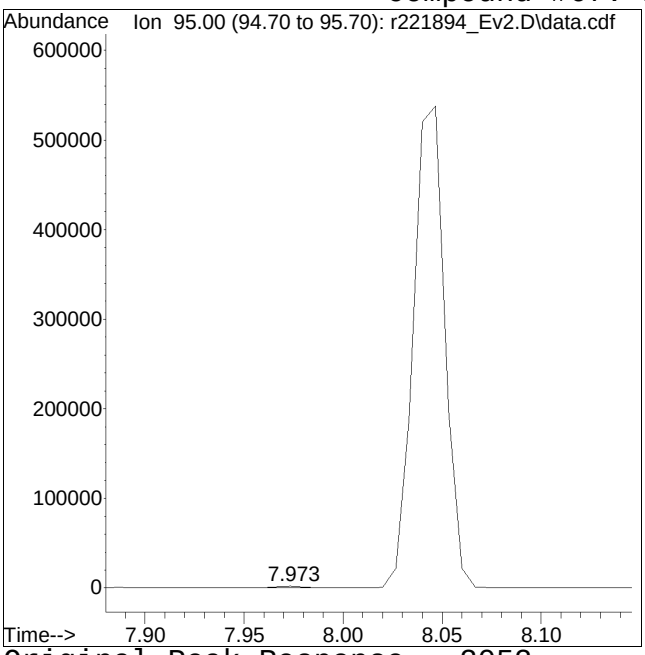
Manual Peak Response = 129404 M6

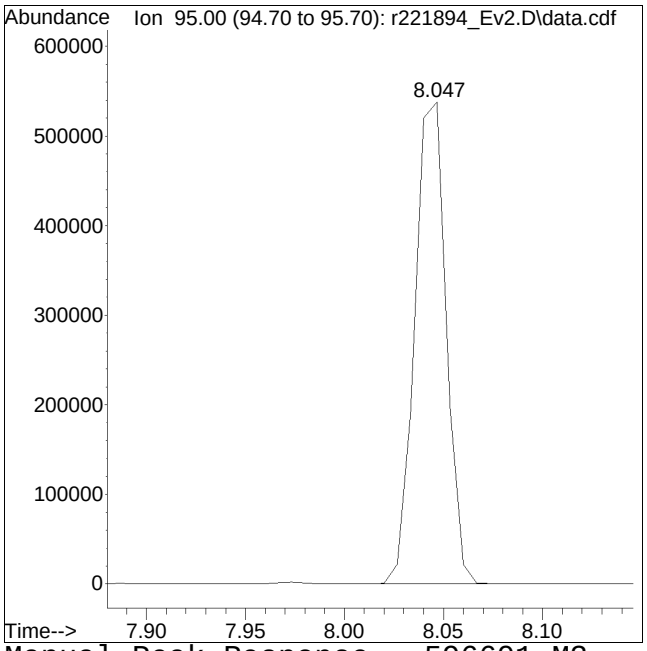
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221894_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 9 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/30/2023 12:46 pm

Compound #67: bromofluorobenzene





Original Peak Response = 2052 Manual Peak Response = 596601 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221895_Ev2.D
Acq On : 30 Nov 2023 1:19 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD020
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:37 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	232658	10.000	ppbV	0.00
Standard Area = 222532			Recovery = 104.55%			
33) 1,4-difluorobenzene	5.377	114	883905	10.000	ppbV	0.00
Standard Area = 823848			Recovery = 107.29%			
51) chlorobenzene-D5	7.340	54	81777	10.000	ppbV	0.00
Standard Area = 84248			Recovery = 97.07%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	239147	9.552	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.52%			
53) toluene-D8	6.500	98	953746	10.920	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.20%			
67) bromofluorobenzene	8.040	95	592928	10.479	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.79%			
Target Compounds						Qvalue
2) propylene	2.155	41	278324M6	19.233	ppbV	
3) dichlorodifluoromethane	2.200	85	374252	17.353	ppbV	100
4) chloromethane	2.305	50	194405	19.634	ppbV	99
5) Freon-114	2.365	85	521932	17.154	ppbV	98
6) vinyl chloride	2.435	62	252131	18.289	ppbV	99
7) 1,3-butadiene	2.505	54	184451	19.045	ppbV	98
8) bromomethane	2.630	94	182630	18.002	ppbV	100
9) chloroethane	2.705	64	103222	20.095	ppbV	98
10) ethanol	2.740	31	381527	98.149	ppbV	96
11) vinyl bromide	2.863	106	194178	18.816	ppbV	100
12) acrolein	2.908	56	80981	18.959	ppbV #	78
13) acetone	2.965	43	718372	93.596	ppbV	98
14) trichlorofluoromethane	3.055	101	228320	18.316	ppbV	99
15) isopropyl alcohol	3.073	45	629675	48.314	ppbV	100
16) acrylonitrile	3.184	53	163671	19.845	ppbV	100
17) 1,1-dichloroethene	3.355	61	433038	19.734	ppbV	96
18) tertiary butyl alcohol	3.360	59	609557	19.779	ppbV	100
19) methylene chloride	3.410	49	359677	19.507	ppbV	95
20) 3-chloropropene	3.465	41	498179	20.036	ppbV	98
21) carbon disulfide	3.555	76	1053210	19.697	ppbV	99
22) Freon 113	3.540	101	602927	18.811	ppbV	98
23) trans-1,2-dichloroethene	3.863	61	481303	19.642	ppbV #	85
24) 1,1-dichloroethane	3.957	63	617671	19.388	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221895_Ev2.D
Acq On : 30 Nov 2023 1:19 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD020
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:37 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.983	73	881234	19.572	ppbV		99
26) vinyl acetate	4.023	43	706273	21.651	ppbV		100
27) 2-butanone	4.143	43	785373	20.169	ppbV		97
28) cis-1,2-dichloroethene	4.363	61	435826	19.143	ppbV		98
29) Ethyl Acetate	4.463	61	118916	19.496	ppbV		66
30) chloroform	4.510	83	555593	18.514	ppbV		98
31) Tetrahydrofuran	4.690	42	485151	19.962	ppbV		95
32) 1,2-dichloroethane	4.863	62	294777	18.426	ppbV		97
34) hexane	4.470	57	566822	18.094	ppbV	#	63
36) 1,1,1-trichloroethane	4.990	97	521752	19.742	ppbV		94
37) benzene	5.203	78	1251579	18.785	ppbV		100
38) carbon tetrachloride	5.277	117	446430	17.915	ppbV		99
39) cyclohexane	5.337	56	648571	18.660	ppbV		99
40) Dibromomethane	5.583	93	302678	17.625	ppbV	#	96
41) 1,2-dichloropropane	5.597	63	408363	18.256	ppbV		98
42) bromodichloromethane	5.683	83	555440	17.960	ppbV		100
43) 1,4-dioxane	5.697	88	280264	20.259	ppbV		88
44) trichloroethene	5.703	130	536694	18.106	ppbV		99
45) 2,2,4-trimethylpentane	5.723	57	1820695	18.138	ppbV		98
46) heptane	5.837	43	729313	18.717	ppbV		98
47) cis-1,3-dichloropropene	6.100	75	610249	18.630	ppbV		98
48) 4-methyl-2-pentanone	6.107	43	811794	17.873	ppbV		99
49) trans-1,3-dichloropropene	6.333	75	501706	19.005	ppbV		98
50) 1,1,2-trichloroethane	6.420	97	460617	18.674	ppbV		97
52) toluene	6.547	91	1359443	19.219	ppbV		99
54) 2-hexanone	6.647	43	799110	20.476	ppbV		99
55) dibromochloromethane	6.740	129	608934	20.042	ppbV		99
56) 1,2-dibromoethane	6.847	107	656661	20.230	ppbV		100
57) tetrachloroethene	7.060	166	568058	19.418	ppbV		97
58) 1,1,1,2-tetrachloroethane	7.353	131	456190	18.523	ppbV		99
59) chlorobenzene	7.360	112	1116982	18.924	ppbV		94
60) ethylbenzene	7.527	91	1668559	19.176	ppbV		98
61) m+p-xylene	7.613	91	2465327	35.139	ppbV		96
62) bromoform	7.653	173	456985	19.778	ppbV		99
63) styrene	7.780	104	1174090	19.440	ppbV		98
64) 1,1,2,2-tetrachloroethane	7.820	83	887592	18.171	ppbV		98
65) o-xylene	7.827	91	1190132	17.056	ppbV		94
66) 1,2,3-Trichloropropane	7.887	75	734755	19.558	ppbV		99
68) isopropylbenzene	8.107	105	1664748	18.249	ppbV		95
69) Bromobenzene	8.153	77	954722	18.631	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221895_Ev2.D
Acq On : 30 Nov 2023 1:19 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD020
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:37 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

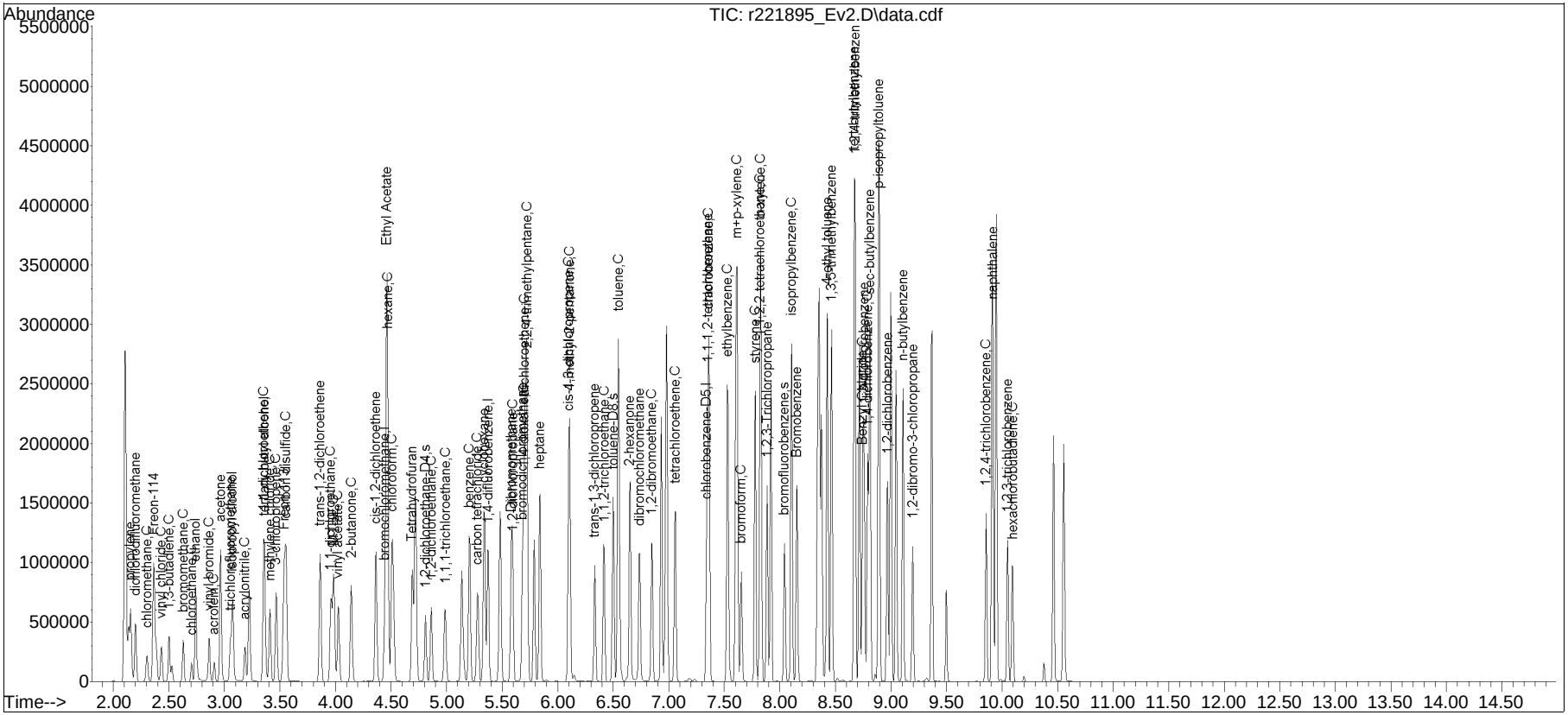
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	1755459	18.560	ppbV	96
71) 1,3,5-trimethylbenzene	8.467	105	1494270	17.422	ppbV	95
72) tert-butylbenzene	8.670	119	1344507	15.661	ppbV	94
73) 1,2,4-trimethylbenzene	8.677	105	1285640	15.451	ppbV	98
74) Benzyl Chloride	8.743	91	992137	21.219	ppbV	93
75) 1,3-dichlorobenzene	8.757	146	1154725	17.663	ppbV	98
76) 1,4-dichlorobenzene	8.790	146	1128998	17.631	ppbV	97
77) sec-butylbenzene	8.810	105	2032188	17.238	ppbV	95
78) p-isopropyltoluene	8.890	119	1594736	15.290	ppbV	92
79) 1,2-dichlorobenzene	8.970	146	1110156	18.046	ppbV	98
80) n-butylbenzene	9.110	91	1550014	17.037	ppbV	95
81) 1,2-dibromo-3-chloropr...	9.197	75	336772	16.719	ppbV	89
82) 1,2,4-trichlorobenzene	9.857	180	846679	16.890	ppbV	97
83) naphthalene	9.918	128	1803822	15.151	ppbV	99
84) 1,2,3-trichlorobenzene	10.053	180	744463	17.030	ppbV	97
85) hexachlorobutadiene	10.098	225	508488	14.823	ppbV	97

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

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221895_Ev2.D
Acq On : 30 Nov 2023 1:19 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD020
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:37 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

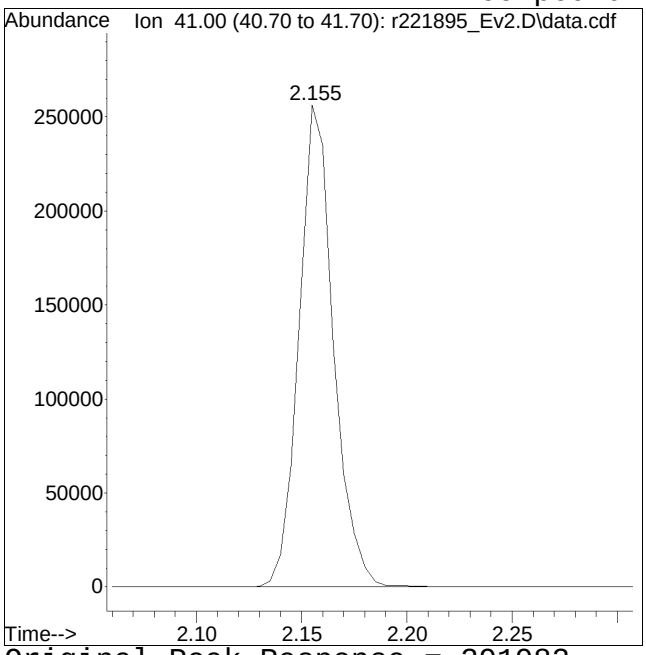


Manual Integration Report

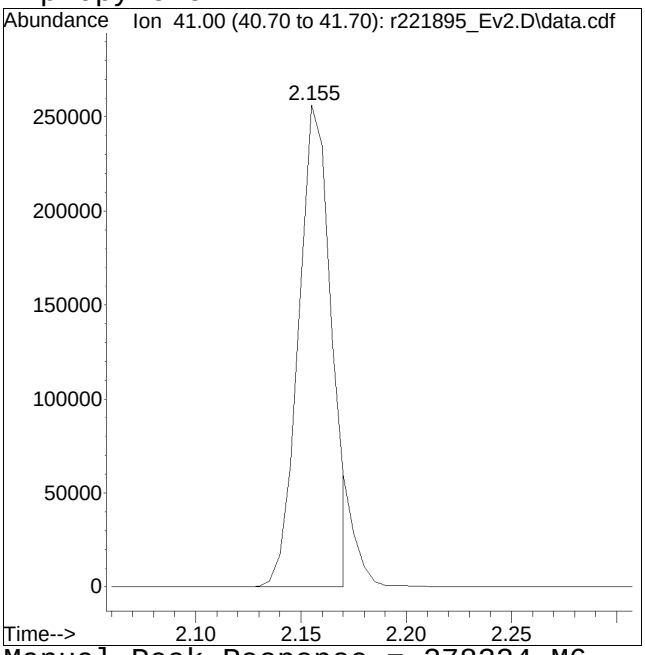
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221895_Ev2.D
Date Inj'd : 11/30/2020 0:1: 9
Sample : ITO15-SIMSTD020

Method : TSIM22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 291982



Manual Peak Response = 278324 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221896_Ev2.D
Acq On : 30 Nov 2023 1:51 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD050
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:43 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	4.443	49	225451	10.000	ppbV		0.00
Standard Area = 222532			Recovery = 101.31%				
33) 1,4-difluorobenzene	5.377	114	888578	10.000	ppbV		0.00
Standard Area = 823848			Recovery = 107.86%				
51) chlorobenzene-D5	7.340	54	71693	10.000	ppbV	#	0.00
Standard Area = 84248			Recovery = 85.10%				
System Monitoring Compounds							
35) 1,2-dichloroethane-D4	4.810	65	213301	8.475	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.75%				
53) toluene-D8	6.500	98	939488	12.269	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.69%				
67) bromofluorobenzene	8.040	95	582048	11.734	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.34%				
Target Compounds							Qvalue
2) propylene	2.150	41	658808M6	46.981	ppbV		
3) dichlorodifluoromethane	2.195	85	797137	38.143	ppbV		100
4) chloromethane	2.300	50	468726	48.852	ppbV		100
5) Freon-114	2.360	85	1071076	36.327	ppbV		98
6) vinyl chloride	2.430	62	577215	43.207	ppbV		99
7) 1,3-butadiene	2.500	54	420659	44.823	ppbV		92
8) bromomethane	2.630	94	393618	40.040	ppbV		100
9) chloroethane	2.705	64	230611	46.329	ppbV		97
10) ethanol	2.745	31	727581	193.156	ppbV		94
11) vinyl bromide	2.863	106	414947	41.494	ppbV		100
12) acrolein	2.911	56	187950	45.410	ppbV	#	81
13) acetone	2.965	43	1599828	215.104	ppbV		95
14) trichlorofluoromethane	3.055	101	498902	41.302	ppbV		99
15) isopropyl alcohol	3.076	45	1387150	109.837	ppbV		100
16) acrylonitrile	3.187	53	361949	45.290	ppbV		100
17) 1,1-dichloroethene	3.355	61	815599	38.356	ppbV		88
18) tertiary butyl alcohol	3.365	59	1259242	42.167	ppbV		98
19) methylene chloride	3.410	49	831481	46.536	ppbV		94
20) 3-chloropropene	3.465	41	1149311	47.700	ppbV		96
21) carbon disulfide	3.555	76	2329780	44.964	ppbV		97
22) Freon 113	3.540	101	1274123	41.022	ppbV		98
23) trans-1,2-dichloroethene	3.863	61	1050983	44.263	ppbV	#	79
24) 1,1-dichloroethane	3.957	63	1381308	44.743	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221896_Ev2.D
Acq On : 30 Nov 2023 1:51 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD050
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:43 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.983	73	1917940	43.958	ppbV		97
26) vinyl acetate	4.023	43	1698787	53.741	ppbV		98
27) 2-butanone	4.143	43	1661489	44.031	ppbV		94
28) cis-1,2-dichloroethene	4.363	61	955118	43.292	ppbV		93
29) Ethyl Acetate	4.463	61	246632	41.728	ppbV	#	48
30) chloroform	4.510	83	1155027	39.719	ppbV		98
31) Tetrahydrofuran	4.690	42	1097759	46.613	ppbV		99
32) 1,2-dichloroethane	4.863	62	601952	38.830	ppbV	#	91
34) hexane	4.470	57	1135252	36.049	ppbV	#	59
36) 1,1,1-trichloroethane	4.990	97	1054124	39.675	ppbV	#	93
37) benzene	5.210	78	2757624	41.171	ppbV		97
38) carbon tetrachloride	5.283	117	907614	36.231	ppbV		99
39) cyclohexane	5.337	56	1437713	41.147	ppbV		97
40) Dibromomethane	5.583	93	608311	35.236	ppbV	#	92
41) 1,2-dichloropropane	5.597	63	864007	38.422	ppbV	#	97
42) bromodichloromethane	5.683	83	1112782	35.792	ppbV		99
43) 1,4-dioxane	5.697	88	579373	41.660	ppbV		83
44) trichloroethene	5.710	130	1073364	36.020	ppbV		97
45) 2,2,4-trimethylpentane	5.723	57	3656532	36.235	ppbV		97
46) heptane	5.843	43	1510390	38.559	ppbV	#	89
47) cis-1,3-dichloropropene	6.100	75	1270546	38.585	ppbV		96
48) 4-methyl-2-pentanone	6.107	43	1640617	35.931	ppbV		97
49) trans-1,3-dichloropropene	6.333	75	1086262	40.931	ppbV		97
50) 1,1,2-trichloroethane	6.420	97	1000350	40.343	ppbV		96
52) toluene	6.547	91	2662548	42.937	ppbV		97
54) 2-hexanone	6.647	43	1690982	49.423	ppbV		97
55) dibromochloromethane	6.740	129	1207682	45.339	ppbV		99
56) 1,2-dibromoethane	6.847	107	1341625	47.144	ppbV		99
57) tetrachloroethene	7.060	166	1101335	42.943	ppbV		95
58) 1,1,1,2-tetrachloroethane	7.353	131	849354	39.338	ppbV		98
59) chlorobenzene	7.367	112	2113334	40.841	ppbV		100
60) ethylbenzene	7.527	91	3212886	42.117	ppbV		98
61) m+p-xylene	7.613	91	4368061	71.016	ppbV		92
62) bromoform	7.653	173	877178	43.303	ppbV		98
63) styrene	7.780	104	2359470	44.563	ppbV		96
64) 1,1,2,2-tetrachloroethane	7.820	83	1645785	38.432	ppbV		98
65) o-xylene	7.833	91	2075608	33.930	ppbV		88
66) 1,2,3-Trichloropropane	7.887	75	1502965	45.635	ppbV		98
68) isopropylbenzene	8.107	105	3152647	39.420	ppbV		92
69) Bromobenzene	8.153	77	1840238	40.962	ppbV		94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221896_Ev2.D
Acq On : 30 Nov 2023 1:51 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD050
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:43 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

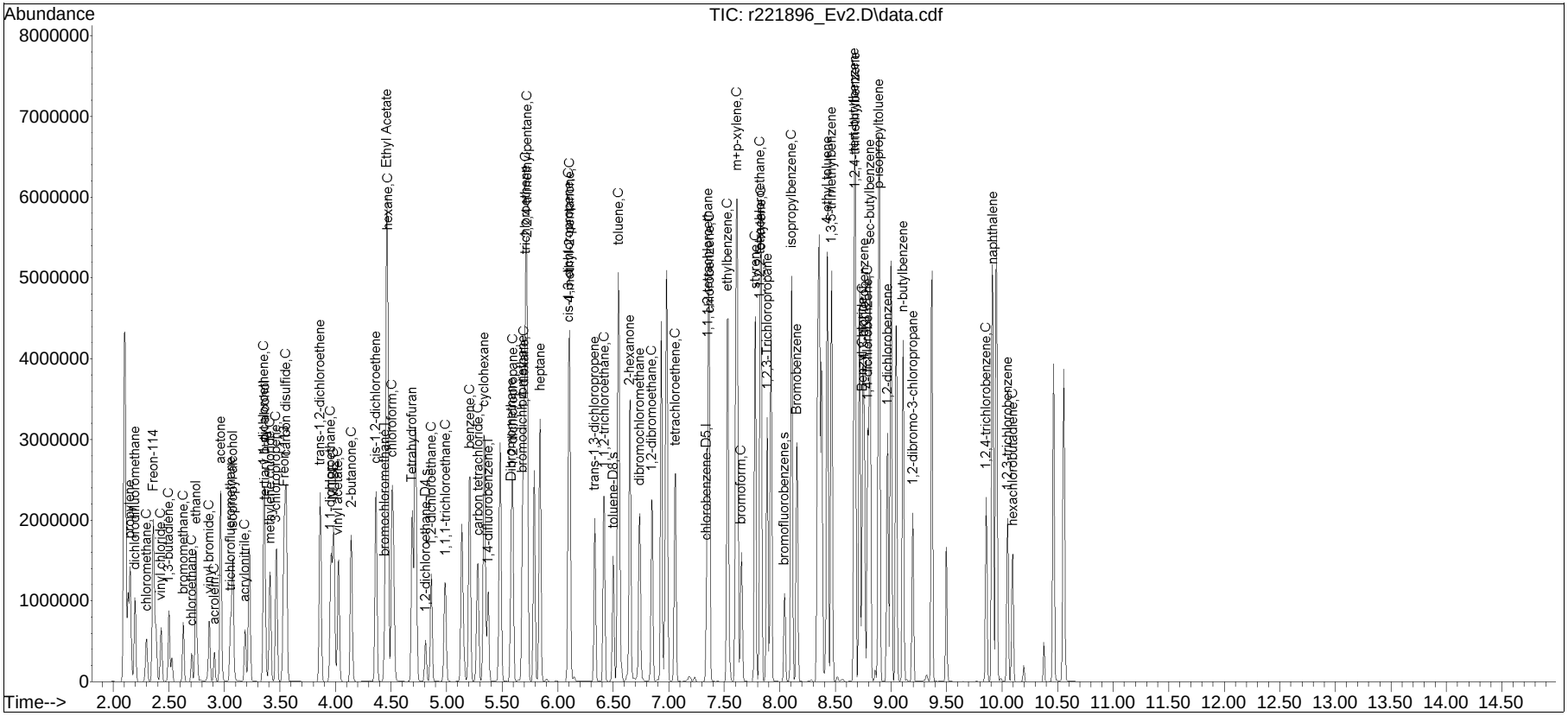
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	3261170	39.329	ppbV	94
71) 1,3,5-trimethylbenzene	8.467	105	2744840	36.504	ppbV	94
72) tert-butylbenzene	8.670	119	2262436	30.061	ppbV	90
73) 1,2,4-trimethylbenzene	8.677	105	2162141	29.640	ppbV	100
74) Benzyl Chloride	8.743	91	1962152	47.868	ppbV	90
75) 1,3-dichlorobenzene	8.757	146	2065060	36.030	ppbV	99
76) 1,4-dichlorobenzene	8.790	146	2060839	36.709	ppbV	98
77) sec-butylbenzene	8.810	105	3644201	35.260	ppbV	92
78) p-isopropyltoluene	8.890	119	2657672	29.066	ppbV	90
79) 1,2-dichlorobenzene	8.970	146	2089777	38.749	ppbV	99
80) n-butylbenzene	9.110	91	2830628	35.488	ppbV	93
81) 1,2-dibromo-3-chloropr...	9.197	75	635066	35.963	ppbV	83
82) 1,2,4-trichlorobenzene	9.857	180	1507829	34.310	ppbV	98
83) naphthalene	9.918	128	3002411	28.766	ppbV	98
84) 1,2,3-trichlorobenzene	10.053	180	1380714	36.028	ppbV	97
85) hexachlorobutadiene	10.098	225	849331	28.242	ppbV	97

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

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221896_Ev2.D
Acq On : 30 Nov 2023 1:51 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD050
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

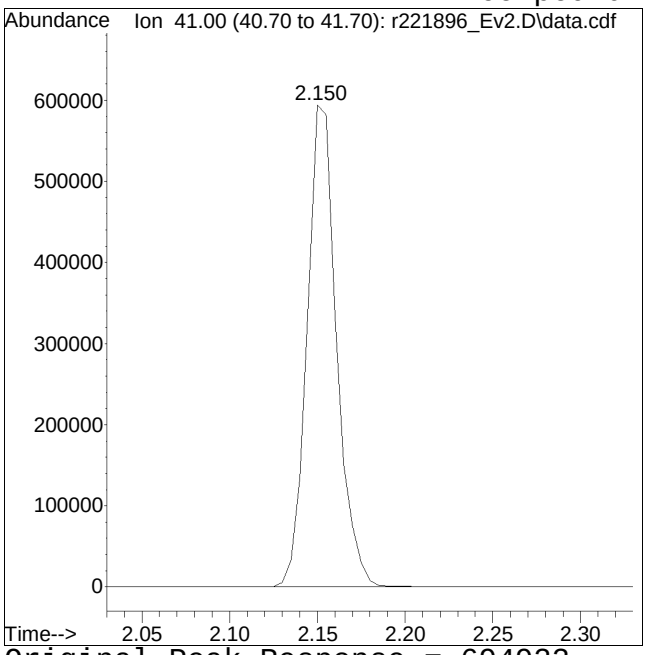
Quant Time: Nov 30 12:46:43 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



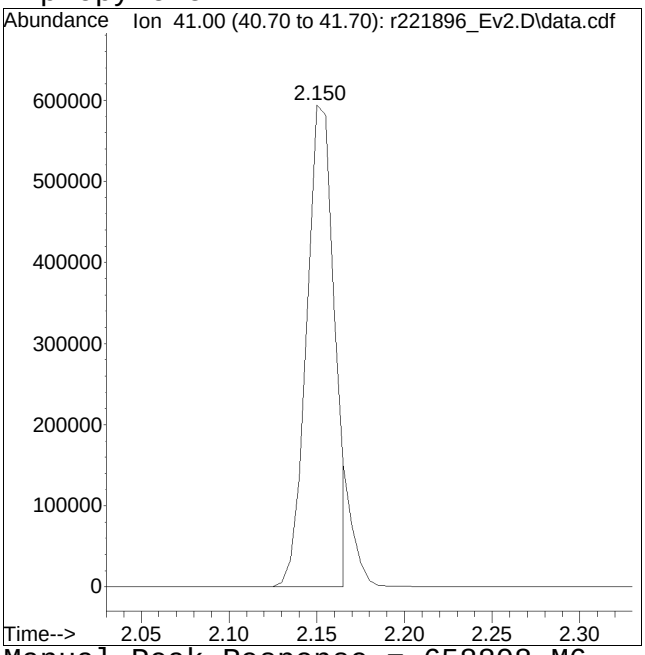
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22Q
Data File : r221896_Ev2.D
Date Inj'd : 11/30/2020 0:1: 1
Sample : ITO15-SIMSTD050
Method : TSIM22_231129.M
Operator : AIRLAB22:RAY
Instrument :
Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 694922



Manual Peak Response = 658808 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221901_Ev2.D
Acq On : 30 Nov 2023 4:55 PM
Operator : AIRLAB22:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	87	0.00
2		propylene	0.644	0.771	-19.7	115	0.00
3		dichlorodifluoromethane	0.891	0.712	20.1	67	0.00
4	C	chloromethane	0.442	0.425	3.8	87	0.00
5		Freon-114	1.321	1.231	6.8	82	0.00
6	C	vinyl chloride	0.626	0.500	20.1	73	0.00
7	C	1,3-butadiene	0.440	0.393	10.7	82	0.00
8	C	bromomethane	0.470	0.354	24.7	71	0.00
9	C	chloroethane	0.237	0.192	19.0	76	0.00
10		ethanol	0.162	0.162	0.0	85	0.00
11	C	vinyl bromide	0.451	0.353	21.7	69	0.00
12	C	acrolein	0.202	0.143	29.2	68	0.00
13		acetone	0.341	0.319	6.5	84	0.00
14		trichlorofluoromethane	0.550	0.433	21.3	70	0.00
15		isopropyl alcohol	0.576	0.455	21.0	71	0.00
16	C	acrylonitrile	0.362	0.282	22.1	69	0.00
17	C	1,1-dichloroethene	0.937	0.682	27.2	63	0.00
18		tertiary butyl alcohol	1.274	1.052	17.4	69	0.00
19	C	methylene chloride	0.814	0.819	-0.6	90	0.00
20	C	3-chloropropene	1.102	1.077	2.3	88	0.00
21	C	carbon disulfide	2.357	2.286	3.0	87	0.00
22		Freon 113	1.442	1.380	4.3	87	0.00
23		trans-1,2-dichloroethene	1.134	0.973	14.2	80	0.00
24	C	1,1-dichloroethane	1.404	1.277	9.0	81	0.00
25	C	MTBE	2.009	1.774	11.7	80	0.00
26	C	vinyl acetate	1.489	1.185	20.4	74	0.00
27	C	2-butanone	1.720	1.431	16.8	74	0.00
28		cis-1,2-dichloroethene	1.014	0.897	11.5	80	0.00
29		Ethyl Acetate	0.264	0.270	-2.3	90	0.00
30	C	chloroform	1.330	1.092	17.9	74	0.00
31		Tetrahydrofuran	1.071	0.970	9.4	81	0.00
32	C	1,2-dichloroethane	0.725	0.460	36.6#	58#	0.00
33	I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00
34	C	hexane	0.352	0.351	0.3	86	0.00
35	s	1,2-dichloroethane-D4	0.274	0.197	28.1	61	0.00
36	C	1,1,1-trichloroethane	0.315	0.219	30.5#	64	0.00
37	C	benzene	0.758	0.725	4.4	84	0.00
38	C	carbon tetrachloride	0.285	0.203	28.8	63	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221901_Ev2.D
Acq On : 30 Nov 2023 4:55 PM
Operator : AIRLAB22:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		cyclohexane	0.392	0.400	-2.0	89	0.00
40		Dibromomethane	0.200	0.176	12.0	79	0.00
41	C	1,2-dichloropropane	0.262	0.248	5.3	85	0.00
42		bromodichloromethane	0.361	0.308	14.7	77	0.00
43	C	1,4-dioxane	0.168	0.171	-1.8	96	0.00
44	C	trichloroethene	0.342	0.340	0.6	88	0.00
45	C	2,2,4-trimethylpentane	1.124	1.135	-1.0	87	0.00
46		heptane	0.440	0.431	2.0	85	0.00
47	C	cis-1,3-dichloropropene	0.377	0.347	8.0	82	0.00
48	C	4-methyl-2-pentanone	0.491	0.474	3.5	81	0.00
49		trans-1,3-dichloropropene	0.299	0.252	15.7	74	0.00
50	C	1,1,2-trichloroethane	0.283	0.277	2.1	87	0.00
51	I	chlorobenzene-D5	1.000	1.000	0.0	75	0.00
52	C	toluene	8.740	9.718	-11.2	84	0.00
53	s	toluene-D8	11.080	12.107	-9.3	85	0.00
54		2-hexanone	4.926	4.894	0.6	77	0.00
55		dibromochloromethane	3.875	4.169	-7.6	84	0.00
56	C	1,2-dibromoethane	4.102	4.336	-5.7	82	0.00
57	C	tetrachloroethene	3.650	3.995	-9.5	83	0.00
58		1,1,1,2-tetrachloroethane	3.116	2.968	4.7	74	0.00
59	C	chlorobenzene	7.265	8.000	-10.1	83	0.00
60	C	ethylbenzene	10.626	11.387	-7.2	80	0.00
61	C	m+p-xylene	8.402	9.087	-8.2	79	0.00
62	C	bromoform	2.919	3.223	-10.4	85	0.00
63	C	styrene	6.981	8.242	-18.1	83	0.00
64	C	1,1,2,2-tetrachloroethane	5.883	6.535	-11.1	82	0.00
65	C	o-xylene	8.344	9.021	-8.1	79	0.00
66		1,2,3-Trichloropropane	4.616	4.504	2.4	73	0.00
67	s	bromofluorobenzene	6.983	7.515	-7.6	81	0.00
68	C	isopropylbenzene	10.832	11.532	-6.5	77	0.00
69		Bromobenzene	6.182	6.297	-1.9	75	0.00
70		4-ethyl toluene	11.306	12.752	-12.8	82	0.00
71		1,3,5-trimethylbenzene	9.687	10.784	-11.3	77	0.00
72		tert-butylbenzene	9.709	10.326	-6.4	74	0.00
73		1,2,4-trimethylbenzene	9.381	10.376	-10.6	76	0.00
74	C	Benzyl Chloride	5.261	6.079	-15.5	79	0.00
75		1,3-dichlorobenzene	7.412	8.466	-14.2	79	0.00
76	C	1,4-dichlorobenzene	7.272	8.555	-17.6	82	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221901_Ev2.D
Acq On : 30 Nov 2023 4:55 PM
Operator : AIRLAB22:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77		sec-butylbenzene	13.556	14.520	-7.1	75	0.00
78		p-isopropyltoluene	11.575	11.899	-2.8	70	0.00
79		1,2-dichlorobenzene	6.981	8.010	-14.7	80	0.00
80		n-butylbenzene	10.262	11.138	-8.5	75	0.00
81		1,2-dibromo-3-chloropropane	2.285	2.066	9.6	63	0.00
82	C	1,2,4-trichlorobenzene	5.022	5.886	-17.2	72	0.00
83		naphthalene	12.220	13.461	-10.2	69	0.00
84		1,2,3-trichlorobenzene	4.331	5.196	-20.0	73	0.00
85	C	hexachlorobutadiene	3.571	4.225	-18.3	75	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 2

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221901_Ev2.D
Acq On : 30 Nov 2023 4:55 PM
Operator : AIRLAB22:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	4.437	49	193625	10.000	ppbV		0.00
Standard Area = 222532			Recovery = 87.01%				
33) 1,4-difluorobenzene	5.370	114	718643	10.000	ppbV		0.00
Standard Area = 823848			Recovery = 87.23%				
51) chlorobenzene-D5	7.340	54	62976	10.000	ppbV	#	0.00
Standard Area = 84248			Recovery = 74.75%				
System Monitoring Compounds							
35) 1,2-dichloroethane-D4	4.810	65	141843	7.203	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 72.03%				
53) toluene-D8	6.500	98	762433	10.927	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.27%				
67) bromofluorobenzene	8.040	95	473276	10.763	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.63%				
Target Compounds							Qvalue
2) propylene	2.145	41	74626	5.983	ppbV		98
3) dichlorodifluoromethane	2.190	85	68964	3.996	ppbV		99
4) chloromethane	2.295	50	41188	4.815	ppbV		100
5) Freon-114	2.355	85	119159	4.658	ppbV		96
6) vinyl chloride	2.425	62	48410	3.995	ppbV		99
7) 1,3-butadiene	2.495	54	38040	4.465	ppbV		92
8) bromomethane	2.625	94	34274	3.764	ppbV		99
9) chloroethane	2.700	64	18608	4.063	ppbV		97
10) ethanol	2.735	31	78580	25.056	ppbV		89
11) vinyl bromide	2.857	106	34206	3.919	ppbV		99
12) acrolein	2.905	56	13824	3.535	ppbV		94
13) acetone	2.962	43	154423	23.406	ppbV		94
14) trichlorofluoromethane	3.049	101	41953	3.941	ppbV		99
15) isopropyl alcohol	3.073	45	110175	9.874	ppbV		100
16) acrylonitrile	3.181	53	27290	3.891	ppbV		99
17) 1,1-dichloroethene	3.350	61	65981	3.635	ppbV	#	86
18) tertiary butyl alcohol	3.365	59	101803	4.128	ppbV		98
19) methylene chloride	3.405	49	79269	5.027	ppbV		95
20) 3-chloropropene	3.460	41	104303	4.888	ppbV		93
21) carbon disulfide	3.550	76	221317	4.849	ppbV		96
22) Freon 113	3.535	101	133645	4.786	ppbV		98
23) trans-1,2-dichloroethene	3.857	61	94155	4.289	ppbV	#	83
24) 1,1-dichloroethane	3.957	63	123661	4.547	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221901_Ev2.D
Acq On : 30 Nov 2023 4:55 PM
Operator : AIRLAB22:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.983	73	171732	4.415	ppbV		97
26) vinyl acetate	4.023	43	114744	3.981	ppbV		94
27) 2-butanone	4.143	43	138500	4.158	ppbV		92
28) cis-1,2-dichloroethene	4.357	61	86864	4.423	ppbV		98
29) Ethyl Acetate	4.463	61	26175	5.112	ppbV		59
30) chloroform	4.503	83	105712	4.104	ppbV		99
31) Tetrahydrofuran	4.690	42	93894	4.529	ppbV		98
32) 1,2-dichloroethane	4.857	62	44486	3.171	ppbV	#	85
34) hexane	4.463	57	126041	4.981	ppbV		81
36) 1,1,1-trichloroethane	4.983	97	78724	3.477	ppbV	#	96
37) benzene	5.203	78	260534	4.785	ppbV		97
38) carbon tetrachloride	5.277	117	72912	3.560	ppbV		100
39) cyclohexane	5.337	56	143664	5.098	ppbV		95
40) Dibromomethane	5.577	93	63146	4.388	ppbV	#	98
41) 1,2-dichloropropane	5.590	63	89127	4.732	ppbV	#	97
42) bromodichloromethane	5.683	83	110682	4.268	ppbV		99
43) 1,4-dioxane	5.697	88	61620	5.097	ppbV		92
44) trichloroethene	5.703	130	122000	4.968	ppbV		99
45) 2,2,4-trimethylpentane	5.717	57	407928	5.051	ppbV		96
46) heptane	5.837	43	154723	4.891	ppbV		96
47) cis-1,3-dichloropropene	6.093	75	124793	4.607	ppbV		95
48) 4-methyl-2-pentanone	6.107	43	170472	4.829	ppbV		98
49) trans-1,3-dichloropropene	6.333	75	90455	4.205	ppbV		95
50) 1,1,2-trichloroethane	6.413	97	99644	4.906	ppbV		96
52) toluene	6.540	91	305992	5.559	ppbV		99
54) 2-hexanone	6.653	43	154101	4.968	ppbV	#	92
55) dibromochloromethane	6.733	129	131262	5.379	ppbV		99
56) 1,2-dibromoethane	6.847	107	136541	5.285	ppbV		99
57) tetrachloroethene	7.053	166	125802	5.473	ppbV		99
58) 1,1,1,2-tetrachloroethane	7.353	131	93472	4.764	ppbV		98
59) chlorobenzene	7.360	112	251919	5.506	ppbV		97
60) ethylbenzene	7.527	91	358563	5.358	ppbV		97
61) m+p-xylene	7.607	91	572237	10.815	ppbV		98
62) bromoform	7.653	173	101481	5.521	ppbV		99
63) styrene	7.773	104	259519	5.903	ppbV		99
64) 1,1,2,2-tetrachloroethane	7.820	83	205775	5.554	ppbV		99
65) o-xylene	7.827	91	284046	5.405	ppbV		95
66) 1,2,3-Trichloropropane	7.887	75	141826	4.879	ppbV		97
68) isopropylbenzene	8.100	105	363109	5.323	ppbV		100
69) Bromobenzene	8.153	77	198285	5.093	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221901_Ev2.D
Acq On : 30 Nov 2023 4:55 PM
Operator : AIRLAB22:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
Sub List : Default - All compounds listed

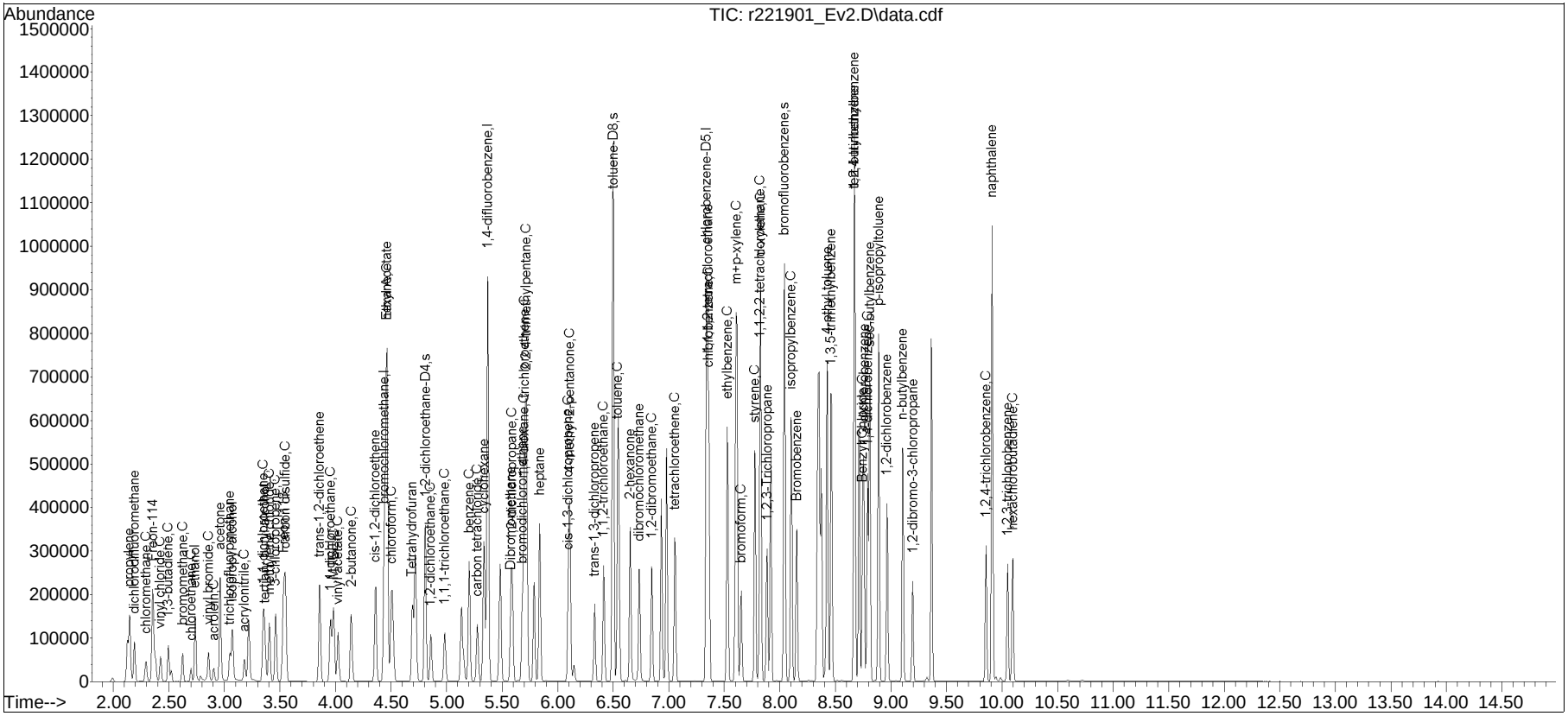
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	401534	5.639	ppbV	96
71) 1,3,5-trimethylbenzene	8.460	105	339580	5.566	ppbV	100
72) tert-butylbenzene	8.670	119	325140	5.317	ppbV	98
73) 1,2,4-trimethylbenzene	8.670	105	326718	5.530	ppbV	94
74) Benzyl Chloride	8.743	91	191422	5.778	ppbV	93
75) 1,3-dichlorobenzene	8.757	146	266572	5.711	ppbV	93
76) 1,4-dichlorobenzene	8.790	146	269394	5.882	ppbV	93
77) sec-butylbenzene	8.810	105	457198	5.355	ppbV	96
78) p-isopropyltoluene	8.890	119	374661	5.140	ppbV	95
79) 1,2-dichlorobenzene	8.963	146	252211	5.737	ppbV	93
80) n-butylbenzene	9.103	91	350698	5.427	ppbV	89
81) 1,2-dibromo-3-chloropr...	9.197	75	65056	4.522	ppbV	84
82) 1,2,4-trichlorobenzene	9.857	180	185345	5.861	ppbV	95
83) naphthalene	9.910	128	423859	5.508	ppbV	100
84) 1,2,3-trichlorobenzene	10.053	180	163610	5.998	ppbV	97
85) hexachlorobutadiene	10.098	225	133038	5.916	ppbV	98

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

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221901_Ev2.D
Acq On : 30 Nov 2023 4:55 PM
Operator : AIRLAB22:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab22	QMethod	: TSIM22_231129.M
Data File	: r221901_Ev2.D	Operator	: AIRLAB22:RAY
Date Inj'd	: 11/30/2020 0:4: 5	Instrument	:
Sample	: CTO15-SIMSTD5.0	Quant Date	: 12/3/2023 8:17 am

There are no manual integrations or false positives in this file.

Continuing Calibration

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.	**Lab Number**	: L2409206		
Project Name	: GROW NYC	**Project Number**	: 210121		
Instrument ID	: AIRLAB15	**Calibration Date**	: 02/26/24 13:17		
Lab File ID	: R1543052_EV2	**Init. Calib. Date(s)**	: 11/20/23	11/21/23	
Sample No	: WG1889453-2	**Init. Calib. Times**	: 19:52	01:39	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	71	.1
propylene	0.539	0.572	-	-6.1	30	82	.04
dichlorodifluoromethane	1.189	1.064	-	10.5	30	61	.04
chloromethane	0.448	0.386	-	13.8	30	58	.04
Freon-114	1.201	1.14	-	5.1	30	65	.04
vinyl chloride	0.638	0.596	-	6.6	30	67	.05
1,3-butadiene	0.427	0.392	-	8.2	30	63	.05
bromomethane	0.547	0.486	-	11.2	30	64	.05
chloroethane	0.3	0.311	-	-3.7	30	74	.06
ethanol	0.414	0.385	-	7	30	62	.06
vinyl bromide	0.469	0.484	-	-3.2	30	76	.06
acrolein	0.252	0.194	-	23	30	57	.07
acetone	0.543	0.648	-	-19.3	30	87	.07
trichlorofluoromethane	0.881	0.97	-	-10.1	30	78	.07
isopropyl alcohol	0.695	0.642	-	7.6	30	69	.07
acrylonitrile	0.52	0.447	-	14	30	57	.07
1,1-dichloroethene	0.98	1.005	-	-2.6	30	75	.08
tertiary butyl alcohol	1.16	1.058	-	8.8	30	69	.08
methylene chloride	0.784	0.698	-	11	30	63	.08
3-chloropropene	0.839	0.856	-	-2	30	74	.08
carbon disulfide	1.842	1.52	-	17.5	30	60	.08
Freon 113	1.138	1.134	-	0.4	30	73	.08
trans-1,2-dichloroethene	0.943	0.926	-	1.8	30	71	.09
1,1-dichloroethane	1.216	1.225	-	-0.7	30	73	.08
MTBE	1.507	1.263	-	16.2	30	61	.09
vinyl acetate	1.208	0.996	-	17.5	30	64	.1
2-butanone	1.304	1.206	-	7.5	30	68	.09
cis-1,2-dichloroethene	0.936	0.907	-	3.1	30	70	.1
Ethyl Acetate	0.245	0.248	-	-1.2	30	75	.1
chloroform	1.286	1.098	-	14.6	30	61	.1
Tetrahydrofuran	0.81	0.724	-	10.6	30	65	.11
1,2-dichloroethane	0.733	0.801	-	-9.3	30	79	.11
1,4-difluorobenzene	1	1	-	0	30	73	.12
hexane	0.443	0.434	-	2	30	73	.1
1,1,1-trichloroethane	0.328	0.333	-	-1.5	30	74	.12
benzene	0.832	0.657	-	21	30	57	.11
carbon tetrachloride	0.31	0.291	-	6.1	30	65	.11
cyclohexane	0.479	0.436	-	9	30	67	.11
Dibromomethane	0.249	0.223	-	10.4	30	69	.12
1,2-dichloropropane	0.301	0.274	-	9	30	69	.11
bromodichloromethane	0.407	0.378	-	7.1	30	66	.12
1,4-dioxane	0.186	0.158	-	15.1	30	63	.12
trichloroethene	0.334	0.291	-	12.9	30	64	.11

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2409206	
Project Name	: GROW NYC		**Project Number**	: 210121	
Instrument ID	: AIRLAB15		**Calibration Date**	: 02/26/24 13:17	
Lab File ID	: R1543052_EV2		**Init. Calib. Date(s)**	: 11/20/23	11/21/23
Sample No	: WG1889453-2		**Init. Calib. Times**	: 19:52	01:39
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	1.476	1.47	-	0.4	30	73	.11
heptane	0.482	0.456	-	5.4	30	69	.11
cis-1,3-dichloropropene	0.361	0.295	-	18.3	30	55	.11
4-methyl-2-pentanone	0.54	0.503	-	6.9	30	67	.12
trans-1,3-dichloropropene	0.279	0.229	-	17.9	30	53	.11
1,1,2-trichloroethane	0.296	0.272	-	8.1	30	68	.1
chlorobenzene-D5	1	1	-	0	30	78	.08
toluene	5.814	4.861	-	16.4	30	65	.1
2-hexanone	2.999	2.486	-	17.1	30	63	.09
dibromochloromethane	2.177	2.166	-	0.5	30	76	.09
1,2-dibromoethane	2.56	2.116	-	17.3	30	61	.09
tetrachloroethene	2.244	1.656	-	26.2	30	58	.08
1,1,1,2-tetrachloroethane	1.846	1.582	-	14.3	30	68	.07
chlorobenzene	4.619	3.53	-	23.6	30	59	.07
ethylbenzene	7.326	6.01	-	18	30	62	.07
m+p-xylene	5.811	5.121	-	11.9	30	66	.07
bromoform	1.73	1.666	-	3.7	30	72	.07
styrene	4.484	3.572	-	20.3	30	58	.07
1,1,2,2-tetrachloroethane	4.502	3.543	-	21.3	30	58	.07
o-xylene	5.909	5.273	-	10.8	30	67	.07
1,2,3-Trichloropropane	3.234	2.553	-	21.1	30	61	.07
isopropylbenzene	7.448	6.117	-	17.9	30	64	.06
Bromobenzene	4.285	3.325	-	22.4	30	60	.06
4-ethyl toluene	7.648	6.61	-	13.6	30	64	.05
1,3,5-trimethylbenzene	6.693	6.429	-	3.9	30	63	.06
tert-butylbenzene	7.168	5.556	-	22.5	30	58	.05
1,2,4-trimethylbenzene	6.579	5.692	-	13.5	30	61	.05
Benzyl Chloride	3.612	3.194	-	11.6	30	64	.06
1,3-dichlorobenzene	4.557	3.834	-	15.9	30	61	.05
1,4-dichlorobenzene	4.477	3.77	-	15.8	30	60	.05
sec-butylbenzene	9.585	7.97	-	16.8	30	63	.06
p-isopropyltoluene	8.142	6.245	-	23.3	30	57	.06
1,2-dichlorobenzene	4.275	3.617	-	15.4	30	61	.07
n-butylbenzene	7.692	6.63	-	13.8	30	65	.07
1,2-dibromo-3-chloropropan	1.408	1.32	-	6.2	30	63	.08
1,2,4-trichlorobenzene	2.988	2.229	-	25.4	30	50	.11
naphthalene	8.258	6.927	-	16.1	30	59	.11
1,2,3-trichlorobenzene	2.636	2.172	-	17.6	30	59	.1
hexachlorobutadiene	2.627	2.136	-	18.7	30	57	.1

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2409206	
Project Name	: GROW NYC		**Project Number**	: 210121	
Instrument ID	: AIRLAB22		**Calibration Date**	: 03/01/24 13:53	
Lab File ID	: R222758_EV2		**Init. Calib. Date(s)**	: 11/29/23	11/30/23
Sample No	: WG1891969-2		**Init. Calib. Times**	: 21:09	01:51
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	115	-.02
propylene	0.644	0.677	-	-5.1	30	133	0
dichlorodifluoromethane	0.891	0.95	-	-6.6	30	118	0
chloromethane	0.442	0.437	-	1.1	30	118	0
Freon-114	1.321	1.407	-	-6.5	30	123	0
vinyl chloride	0.626	0.608	-	2.9	30	118	0
1,3-butadiene	0.44	0.499	-	-13.4	30	138	0
bromomethane	0.47	0.452	-	3.8	30	119	0
chloroethane	0.237	0.246	-	-3.8	30	128	-.01
ethanol	0.162	0.207	-	-27.8	30	143	0
vinyl bromide	0.451	0.476	-	-5.5	30	123	0
acrolein	0.202	0.196	-	3	30	122	0
acetone	0.341	0.386	-	-13.2	30	134	0
trichlorofluoromethane	0.55	0.585	-	-6.4	30	125	0
isopropyl alcohol	0.576	0.618	-	-7.3	30	127	0
acrylonitrile	0.362	0.386	-	-6.6	30	125	-.01
1,1-dichloroethene	0.937	0.962	-	-2.7	30	117	-.01
tertiary butyl alcohol	1.274	1.309	-	-2.7	30	113	-.01
methylene chloride	0.814	0.739	-	9.2	30	107	0
3-chloropropene	1.102	1.145	-	-3.9	30	123	-.01
carbon disulfide	2.357	2.048	-	13.1	30	102	-.02
Freon 113	1.442	1.217	-	15.6	30	101	-.01
trans-1,2-dichloroethene	1.134	1.02	-	10.1	30	111	-.01
1,1-dichloroethane	1.404	1.243	-	11.5	30	104	-.01
MTBE	2.009	1.897	-	5.6	30	113	-.01
vinyl acetate	1.489	1.319	-	11.4	30	108	-.01
2-butanone	1.72	1.549	-	9.9	30	106	-.01
cis-1,2-dichloroethene	1.014	0.91	-	10.3	30	107	-.02
Ethyl Acetate	0.264	0.264	-	0	30	115	-.01
chloroform	1.33	1.171	-	12	30	104	-.01
Tetrahydrofuran	1.071	1.022	-	4.6	30	112	-.02
1,2-dichloroethane	0.725	0.686	-	5.4	30	115	-.02
1,4-difluorobenzene	1	1	-	0	30	106	-.01
hexane	0.352	0.384	-	-9.1	30	115	-.01
1,1,1-trichloroethane	0.315	0.3	-	4.8	30	106	-.01
benzene	0.758	0.681	-	10.2	30	95	-.01
carbon tetrachloride	0.285	0.282	-	1.1	30	106	-.01
cyclohexane	0.392	0.424	-	-8.2	30	114	-.01
Dibromomethane	0.2	0.182	-	9	30	99	-.02
1,2-dichloropropane	0.262	0.241	-	8	30	101	-.01
bromodichloromethane	0.361	0.387	-	-7.2	30	117	-.01
1,4-dioxane	0.168	0.173	-	-3	30	117	-.01
trichloroethene	0.342	0.302	-	11.7	30	95	-.01

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: AKRF, Inc.		**Lab Number**	: L2409206	
Project Name	: GROW NYC		**Project Number**	: 210121	
Instrument ID	: AIRLAB22		**Calibration Date**	: 03/01/24 13:53	
Lab File ID	: R222758_EV2		**Init. Calib. Date(s)**	: 11/29/23	11/30/23
Sample No	: WG1891969-2		**Init. Calib. Times**	: 21:09	01:51
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	1.124	1.243	-	-10.6	30	116	-.02
heptane	0.44	0.492	-	-11.8	30	118	-.01
cis-1,3-dichloropropene	0.377	0.36	-	4.5	30	103	-.02
4-methyl-2-pentanone	0.491	0.575	-	-17.1	30	118	-.02
trans-1,3-dichloropropene	0.299	0.289	-	3.3	30	102	-.01
1,1,2-trichloroethane	0.283	0.259	-	8.5	30	98	-.02
chlorobenzene-D5	1	1	-	0	30	123	-.01
toluene	8.74	6.811	-	22.1	30	97	-.02
2-hexanone	4.926	4.405	-	10.6	30	114	-.01
dibromochloromethane	3.875	3.425	-	11.6	30	114	-.02
1,2-dibromoethane	4.102	3.144	-	23.4	30	98	-.01
tetrachloroethene	3.65	2.732	-	25.2	30	94	-.02
1,1,1,2-tetrachloroethane	3.116	2.446	-	21.5	30	100	-.01
chlorobenzene	7.265	5.617	-	22.7	30	96	-.02
ethylbenzene	10.626	8.338	-	21.5	30	97	-.02
m+p-xylene	8.402	7.002	-	16.7	30	101	-.02
bromoform	2.919	2.568	-	12	30	112	-.01
styrene	6.981	5.701	-	18.3	30	95	-.02
1,1,2,2-tetrachloroethane	5.883	4.863	-	17.3	30	100	-.02
o-xylene	8.344	7.088	-	15.1	30	103	-.01
1,2,3-Trichloropropane	4.616	3.826	-	17.1	30	103	-.02
isopropylbenzene	10.832	9.216	-	14.9	30	102	-.02
Bromobenzene	6.182	5.168	-	16.4	30	102	-.01
4-ethyl toluene	11.306	10.007	-	11.5	30	107	-.01
1,3,5-trimethylbenzene	9.687	8.439	-	12.9	30	99	-.01
tert-butylbenzene	9.709	8.485	-	12.6	30	100	-.01
1,2,4-trimethylbenzene	9.381	8.242	-	12.1	30	100	-.02
Benzyl Chloride	5.261	4.873	-	7.4	30	105	-.01
1,3-dichlorobenzene	7.412	6.105	-	17.6	30	94	-.01
1,4-dichlorobenzene	7.272	5.765	-	20.7	30	91	-.01
sec-butylbenzene	13.556	11.657	-	14	30	100	-.01
p-isopropyltoluene	11.575	9.698	-	16.2	30	94	-.01
1,2-dichlorobenzene	6.981	5.552	-	20.5	30	91	-.01
n-butylbenzene	10.262	9.225	-	10.1	30	102	-.01
1,2-dibromo-3-chloropropan	2.285	2.197	-	3.9	30	110	-.01
1,2,4-trichlorobenzene	5.022	3.728	-	25.8	30	75	-.02
naphthalene	12.22	10.952	-	10.4	30	93	-.02
1,2,3-trichlorobenzene	4.331	3.733	-	13.8	30	86	-.02
hexachlorobutadiene	3.571	3.074	-	13.9	30	90	-.02

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-2,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 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	71	0.10
2		propylene	0.539	0.572	-6.1	82	0.04
3		dichlorodifluoromethane	1.189	1.064	10.5	61	0.04
4	C	chloromethane	0.448	0.386	13.8	58#	0.04
5		Freon-114	1.201	1.140	5.1	65	0.04
6	C	vinyl chloride	0.638	0.596	6.6	67	0.05
7	C	1,3-butadiene	0.427	0.392	8.2	63	0.05
8	C	bromomethane	0.547	0.486	11.2	64	0.05
9	C	chloroethane	0.300	0.311	-3.7	74	0.06
10		ethanol	0.414	0.385	7.0	62	0.06
11	C	vinyl bromide	0.469	0.484	-3.2	76	0.06
12	C	acrolein	0.252	0.194	23.0	57#	0.07
13		acetone	0.543	0.648	-19.3	87	0.07
14		trichlorofluoromethane	0.881	0.970	-10.1	78	0.07
15		isopropyl alcohol	0.695	0.642	7.6	69	0.07
16	C	acrylonitrile	0.520	0.447	14.0	57#	0.07
17	C	1,1-dichloroethene	0.980	1.005	-2.6	75	0.08
18		tertiary butyl alcohol	1.160	1.058	8.8	69	0.08
19	C	methylene chloride	0.784	0.698	11.0	63	0.08
20	C	3-chloropropene	0.839	0.856	-2.0	74	0.08
21	C	carbon disulfide	1.842	1.520	17.5	60#	0.08
22		Freon 113	1.138	1.134	0.4	73	0.08
23		trans-1,2-dichloroethene	0.943	0.926	1.8	71	0.09
24	C	1,1-dichloroethane	1.216	1.225	-0.7	73	0.08
25	C	MTBE	1.507	1.263	16.2	61	0.09
26	C	vinyl acetate	1.208	0.996	17.5	64	0.10
27	C	2-butanone	1.304	1.206	7.5	68	0.09
28		cis-1,2-dichloroethene	0.936	0.907	3.1	70	0.10
29		Ethyl Acetate	0.245	0.248	-1.2	75	0.10
30	C	chloroform	1.286	1.098	14.6	61	0.10
31		Tetrahydrofuran	0.810	0.724	10.6	65	0.11
32	C	1,2-dichloroethane	0.733	0.801	-9.3	79	0.11
33	I	1,4-difluorobenzene	1.000	1.000	0.0	73	0.12
34	C	hexane	0.443	0.434	2.0	73	0.10
36	C	1,1,1-trichloroethane	0.328	0.333	-1.5	74	0.12
37	C	benzene	0.832	0.657	21.0	57#	0.11
38	C	carbon tetrachloride	0.310	0.291	6.1	65	0.11
39		cyclohexane	0.479	0.436	9.0	67	0.11

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-2,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 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	0.249	0.223	10.4	69	0.12
41	C	1,2-dichloropropane	0.301	0.274	9.0	69	0.11
42		bromodichloromethane	0.407	0.378	7.1	66	0.12
43	C	1,4-dioxane	0.186	0.158	15.1	63	0.12
44	C	trichloroethene	0.334	0.291	12.9	64	0.11
45	C	2,2,4-trimethylpentane	1.476	1.470	0.4	73	0.11
46		heptane	0.482	0.456	5.4	69	0.11
47	C	cis-1,3-dichloropropene	0.361	0.295	18.3	55#	0.11
48	C	4-methyl-2-pentanone	0.540	0.503	6.9	67	0.12
49		trans-1,3-dichloropropene	0.279	0.229	17.9	53#	0.11
50	C	1,1,2-trichloroethane	0.296	0.272	8.1	68	0.10
51	I	chlorobenzene-D5	1.000	1.000	0.0	78	0.08
52	C	toluene	5.814	4.861	16.4	65	0.10
54		2-hexanone	2.999	2.486	17.1	63	0.09
55		dibromochloromethane	2.177	2.166	0.5	76	0.09
56	C	1,2-dibromoethane	2.560	2.116	17.3	61	0.09
57	C	tetrachloroethene	2.244	1.656	26.2	58#	0.08
58		1,1,1,2-tetrachloroethane	1.846	1.582	14.3	68	0.07
59	C	chlorobenzene	4.619	3.530	23.6	59#	0.07
60	C	ethylbenzene	7.326	6.010	18.0	62	0.07
61	C	m+p-xylene	5.811	5.121	11.9	66	0.07
62	C	bromoform	1.730	1.666	3.7	72	0.07
63	C	styrene	4.484	3.572	20.3	58#	0.07
64	C	1,1,2,2-tetrachloroethane	4.502	3.543	21.3	58#	0.07
65	C	o-xylene	5.909	5.273	10.8	67	0.07
66		1,2,3-Trichloropropane	3.234	2.553	21.1	61	0.07
68	C	isopropylbenzene	7.448	6.117	17.9	64	0.06
69		Bromobenzene	4.285	3.325	22.4	60#	0.06
70		4-ethyl toluene	7.648	6.610	13.6	64	0.05
71		1,3,5-trimethylbenzene	6.693	6.429	3.9	63	0.06
72		tert-butylbenzene	7.168	5.556	22.5	58#	0.05
73		1,2,4-trimethylbenzene	6.579	5.692	13.5	61	0.05
74	C	Benzyl Chloride	3.612	3.194	11.6	64	0.06
75		1,3-dichlorobenzene	4.557	3.834	15.9	61	0.05
76	C	1,4-dichlorobenzene	4.477	3.770	15.8	60	0.05
77		sec-butylbenzene	9.585	7.970	16.8	63	0.06
78		p-isopropyltoluene	8.142	6.245	23.3	57#	0.06
79		1,2-dichlorobenzene	4.275	3.617	15.4	61	0.07

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-2,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 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	7.692	6.630	13.8	65	0.07
81	1,2-dibromo-3-chloropropane	1.408	1.320	6.2	63	0.08
82 C	1,2,4-trichlorobenzene	2.988	2.229	25.4	50#	0.11
83	naphthalene	8.258	6.927	16.1	59#	0.11
84	1,2,3-trichlorobenzene	2.636	2.172	17.6	59#	0.10
85 C	hexachlorobutadiene	2.627	2.136	18.7	57#	0.10

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-2,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.167	49	147461	10.000	ppbV		0.10
Standard Area = 147461			Recovery = 100.00%				
33) 1,4-difluorobenzene	11.407	114	439351	10.000	ppbV	#	0.12
Standard Area = 439351			Recovery = 100.00%				
51) chlorobenzene-D5	16.083	54	77617	10.000	ppbV		0.08
Standard Area = 77617			Recovery = 100.00%				
System Monitoring Compounds							
Target Compounds							Qvalue
2) propylene	3.958	41	42150M6	5.301	ppbV		
3) dichlorodifluoromethane	4.036	85	78484	4.477	ppbV		99
4) chloromethane	4.198	50	28493	4.309	ppbV		97
5) Freon-114	4.306	85	84027	4.746	ppbV		99
6) vinyl chloride	4.432	62	43932	4.669	ppbV		95
7) 1,3-butadiene	4.576	54	28895	4.594	ppbV	#	58
8) bromomethane	4.864	94	35830	4.443	ppbV		95
9) chloroethane	5.056	64	22911	5.175	ppbV		95
10) ethanol	5.188	31	142098	23.271	ppbV	#	84
11) vinyl bromide	5.440	106	35701	5.164	ppbV		99
12) acrolein	5.570	56	14312	3.844	ppbV		99
13) acetone	5.710	43	239000	29.854	ppbV	#	80
14) trichlorofluoromethane	5.903	101	71525	5.507	ppbV		100
15) isopropyl alcohol	6.000	45	118299	11.542	ppbV	#	96
16) acrylonitrile	6.230	53	32976	4.298	ppbV		99
17) 1,1-dichloroethene	6.606	61	74093	5.129	ppbV		96
18) tertiary butyl alcohol	6.678	59	78034	4.560	ppbV	#	88
19) methylene chloride	6.750	49	51468	4.452	ppbV		98
20) 3-chloropropene	6.882	41	63139	5.106	ppbV		94
21) carbon disulfide	7.056	76	112062	4.126	ppbV		96
22) Freon 113	7.050	101	83632	4.984	ppbV		90
23) trans-1,2-dichloroethene	7.808	61	68310	4.914	ppbV		98
24) 1,1-dichloroethane	8.025	63	90288	5.034	ppbV		99
25) MTBE	8.100	73	93134	4.190	ppbV		97
26) vinyl acetate	8.217	43	73457	4.123	ppbV		98
27) 2-butanone	8.475	43	88904	4.622	ppbV		97
28) cis-1,2-dichloroethene	8.983	61	66852	4.846	ppbV		96
29) Ethyl Acetate	9.250	61	18307	5.072	ppbV		92
30) chloroform	9.325	83	80980	4.271	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-2,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
31) Tetrahydrofuran	9.767	42	53363	4.468	ppbV		98
32) 1,2-dichloroethane	10.158	62	59031	5.459	ppbV	#	92
34) hexane	9.233	57	95256	4.892	ppbV		87
36) 1,1,1-trichloroethane	10.458	97	73105	5.075	ppbV		97
37) benzene	10.980	78	144264M4	3.944	ppbV		
38) carbon tetrachloride	11.153	117	63818	4.686	ppbV		98
39) cyclohexane	11.300	56	95718	4.546	ppbV		88
40) Dibromomethane	11.900	93	49081	4.483	ppbV	#	89
41) 1,2-dichloropropane	11.927	63	60282	4.559	ppbV		97
42) bromodichloromethane	12.160	83	83046	4.639	ppbV		95
43) 1,4-dioxane	12.207	88	34674	4.240	ppbV		89
44) trichloroethene	12.207	130	63980	4.364	ppbV		98
45) 2,2,4-trimethylpentane	12.253	57	322820	4.978	ppbV		98
46) heptane	12.567	43	100183	4.732	ppbV		98
47) cis-1,3-dichloropropene	13.217	75	64813	4.087	ppbV	#	89
48) 4-methyl-2-pentanone	13.258	43	110488	4.655	ppbV		97
49) trans-1,3-dichloropropene	13.842	75	50278	4.104	ppbV	#	91
50) 1,1,2-trichloroethane	14.033	97	59818	4.606	ppbV		88
52) toluene	14.342	91	188645	4.181	ppbV		99
54) 2-hexanone	14.617	43	96493	4.145	ppbV		100
55) dibromochloromethane	14.783	129	84053	4.975	ppbV		96
56) 1,2-dibromoethane	15.033	107	82127	4.133	ppbV		99
57) tetrachloroethene	15.483	166	64279	3.690	ppbV	#	88
58) 1,1,1,2-tetrachloroethane	16.108	131	61399	4.286	ppbV		97
59) chlorobenzene	16.125	112	136986	3.821	ppbV		99
60) ethylbenzene	16.467	91	233258	4.102	ppbV		92
61) m+p-xylene	16.633	91	397479	8.812	ppbV		93
62) bromoform	16.700	173	64651	4.815	ppbV		97
63) styrene	16.950	104	138623	3.983	ppbV		98
64) 1,1,2,2-tetrachloroethane	17.042	83	137503	3.935	ppbV		97
65) o-xylene	17.050	91	204618	4.462	ppbV		93
66) 1,2,3-Trichloropropane	17.158	75	99089M4	3.947	ppbV		
68) isopropylbenzene	17.558	105	237376	4.106	ppbV		95
69) Bromobenzene	17.633	77	129056	3.880	ppbV		100
70) 4-ethyl toluene	18.108	105	256542	4.322	ppbV		94
71) 1,3,5-trimethylbenzene	18.175	105	249494	4.803	ppbV		96
72) tert-butylbenzene	18.517	119	215625	3.875	ppbV		97
73) 1,2,4-trimethylbenzene	18.517	105	220890	4.326	ppbV		90
74) Benzyl Chloride	18.642	91	123970	4.422	ppbV		94
75) 1,3-dichlorobenzene	18.650	146	148781	4.206	ppbV		93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-2,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

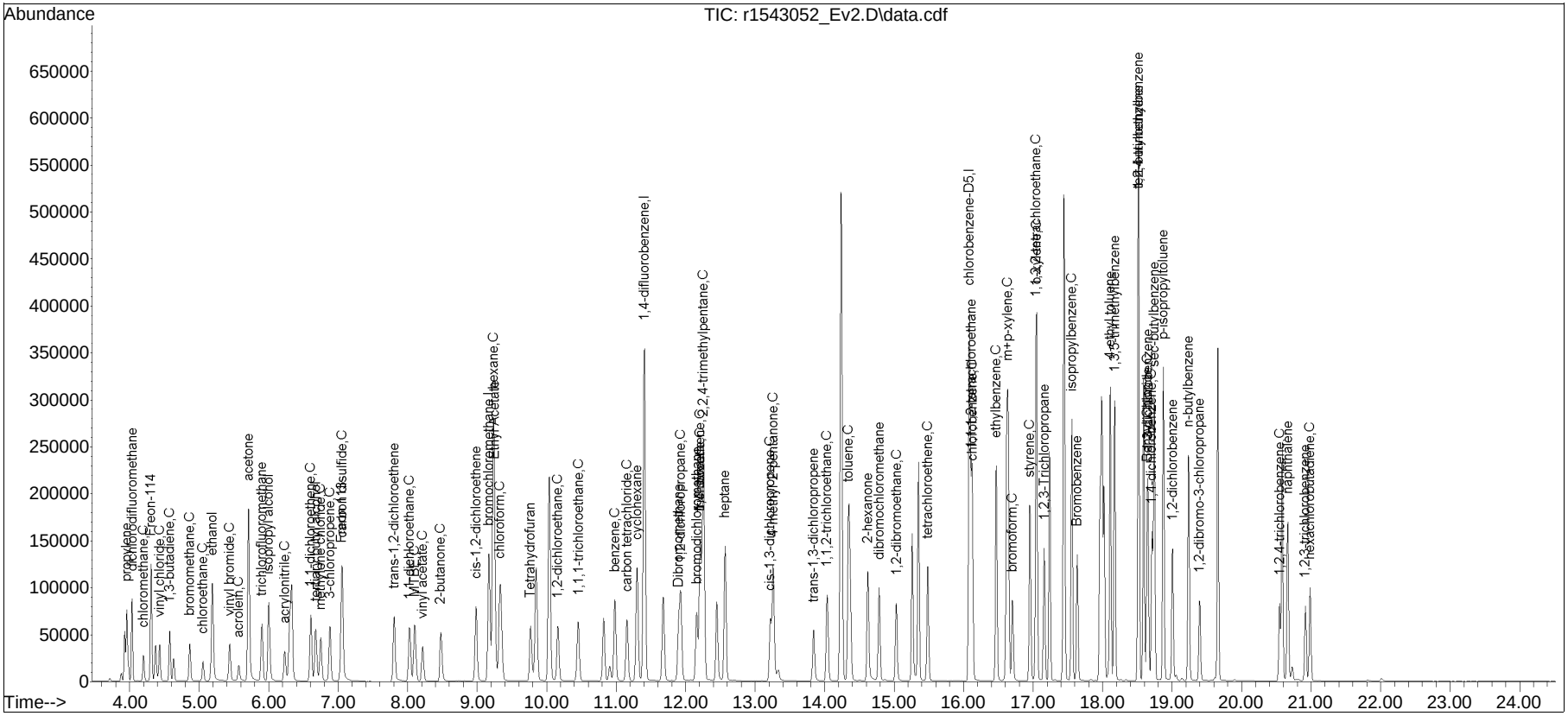
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-dichlorobenzene	18.708	146	146296M3	4.210	ppbV	
77) sec-butylbenzene	18.742	105	309312	4.158	ppbV	99
78) p-isopropyltoluene	18.875	119	242344	3.835	ppbV	95
79) 1,2-dichlorobenzene	19.008	146	140370	4.230	ppbV	98
80) n-butylbenzene	19.233	91	257306	4.310	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.392	75	51218	4.687	ppbV	86
82) 1,2,4-trichlorobenzene	20.550	180	86504	3.730	ppbV	98
83) naphthalene	20.667	128	268816M4	4.194	ppbV	
84) 1,2,3-trichlorobenzene	20.917	180	84300	4.120	ppbV	94
85) hexachlorobutadiene	20.983	225	82911	4.066	ppbV	95

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

Sub List : Default-LCS-AP2 - All compounds listed6SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-2,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

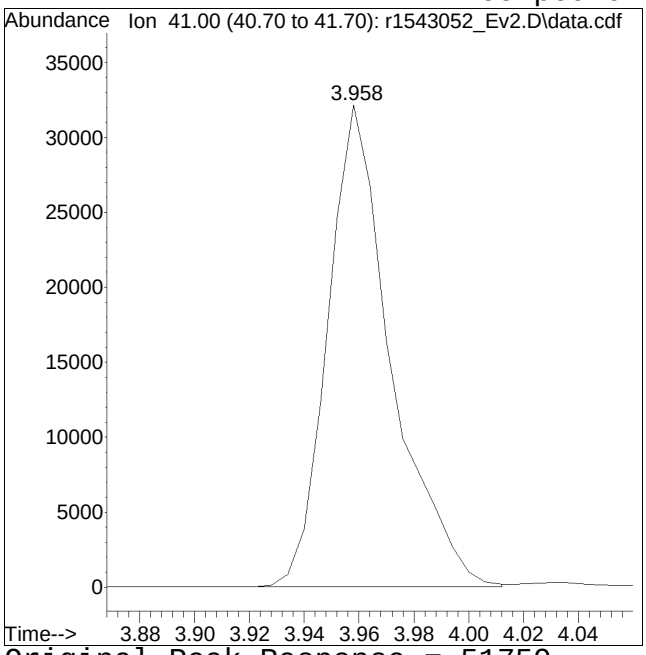
Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration



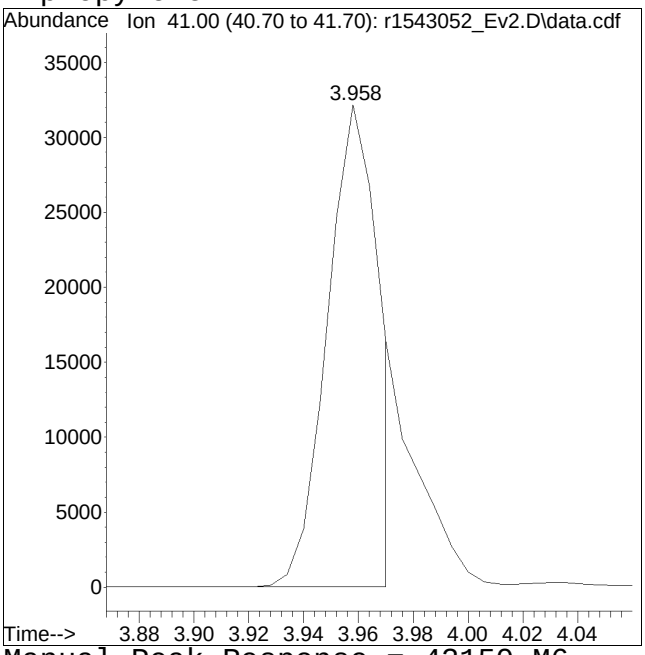
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1543052_Ev2.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 7 Instrument :
Sample : WG1889453-2,3,250,250,, Quant Date : 2/26/2024 1:46 pm

Compound #2: propylene



Original Peak Response = 51759



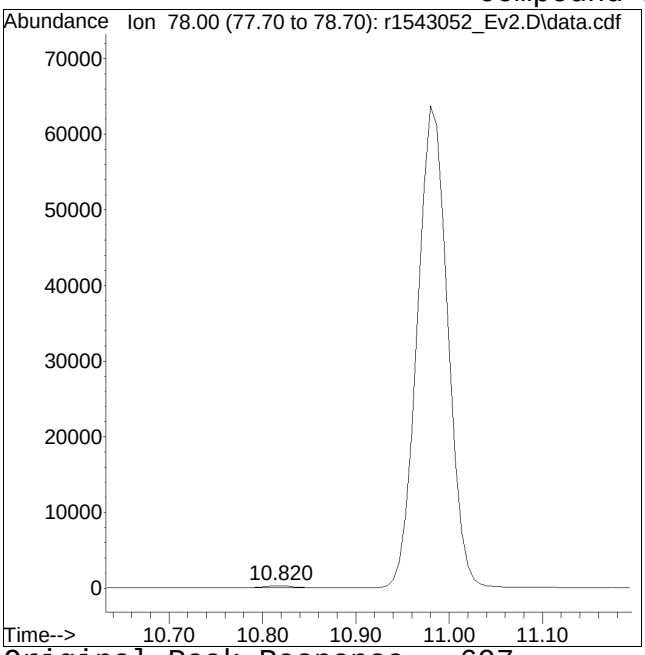
Manual Peak Response = 42150 M6

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

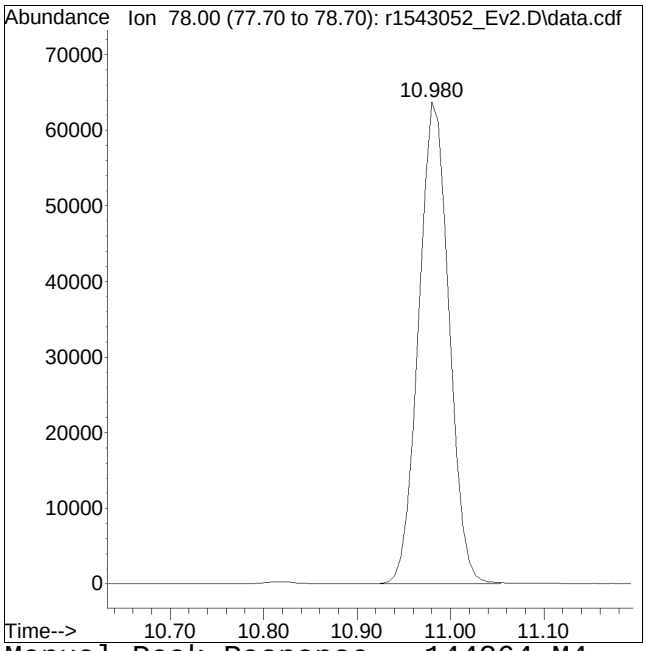
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1543052_Ev2.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 7 Instrument :
Sample : WG1889453-2,3,250,250,, Quant Date : 2/26/2024 1:46 pm

Compound #37: benzene



Original Peak Response = 697



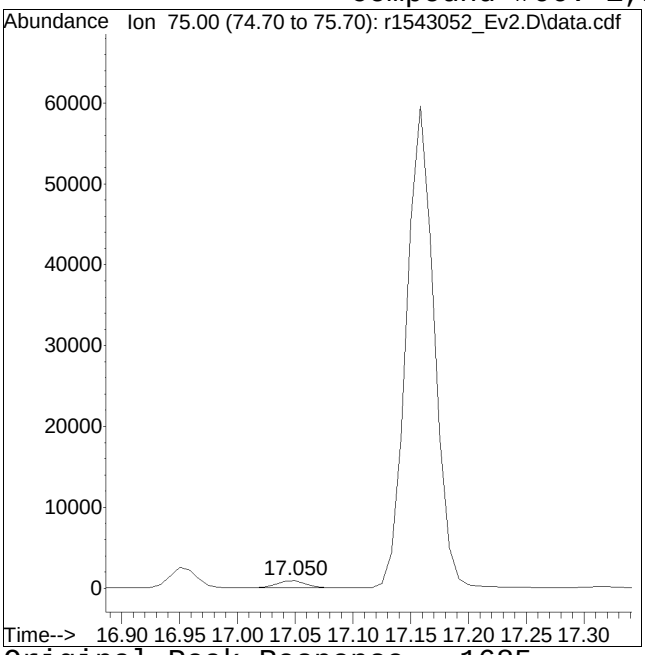
Manual Peak Response = 144264 M4

M4 = Poor automated baseline construction.

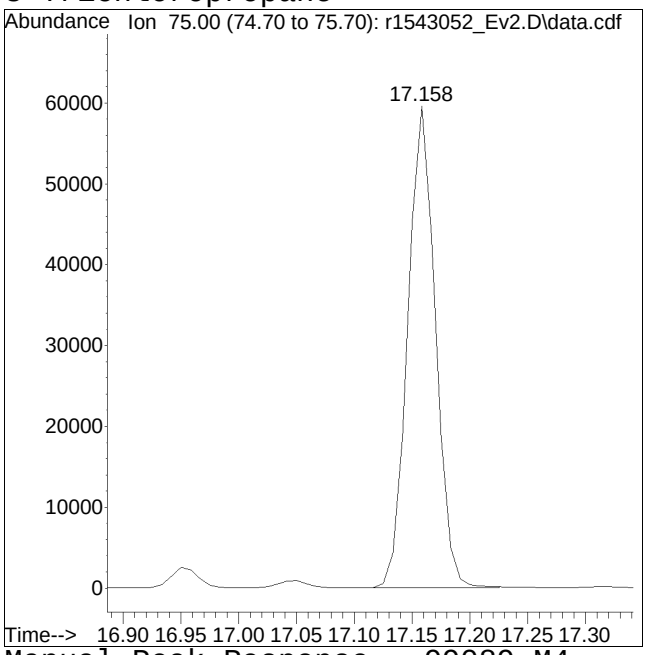
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1543052_Ev2.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 7 Instrument :
Sample : WG1889453-2,3,250,250,, Quant Date : 2/26/2024 1:46 pm

Compound #66: 1,2,3-Trichloropropane



Original Peak Response = 1685



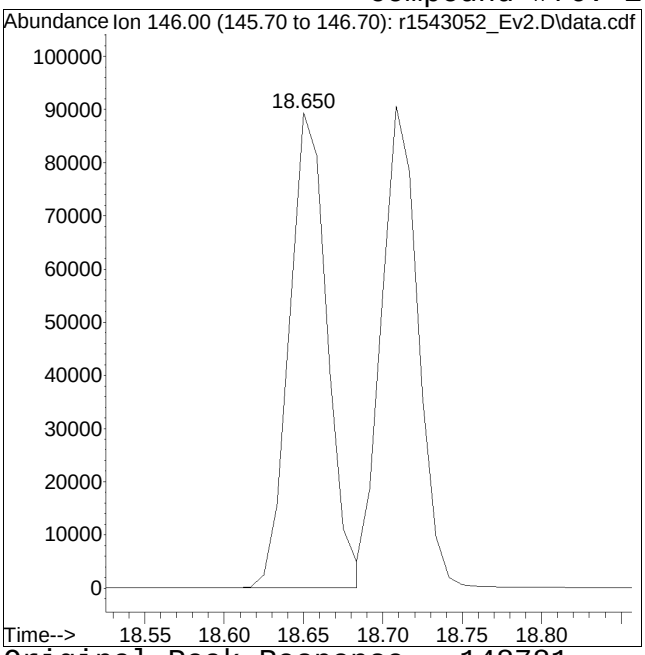
Manual Peak Response = 99089 M4

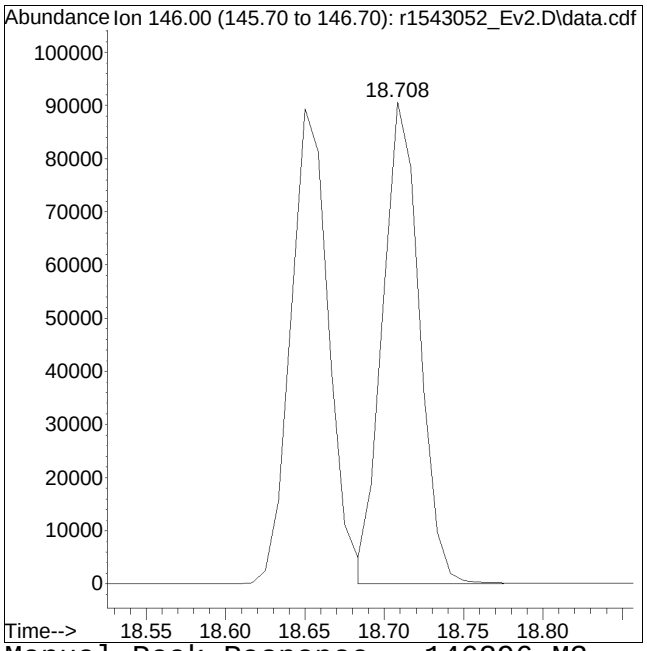
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1543052_Ev2.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 7 Instrument :
Sample : WG1889453-2,3,250,250,, Quant Date : 2/26/2024 1:46 pm

Compound #76: 1,4-dichlorobenzene





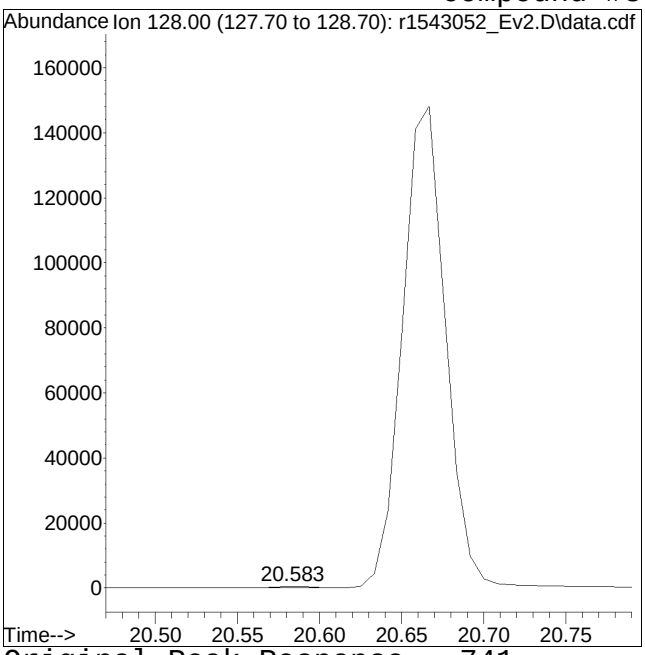
Original Peak Response = 148781 Manual Peak Response = 146296 M3

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

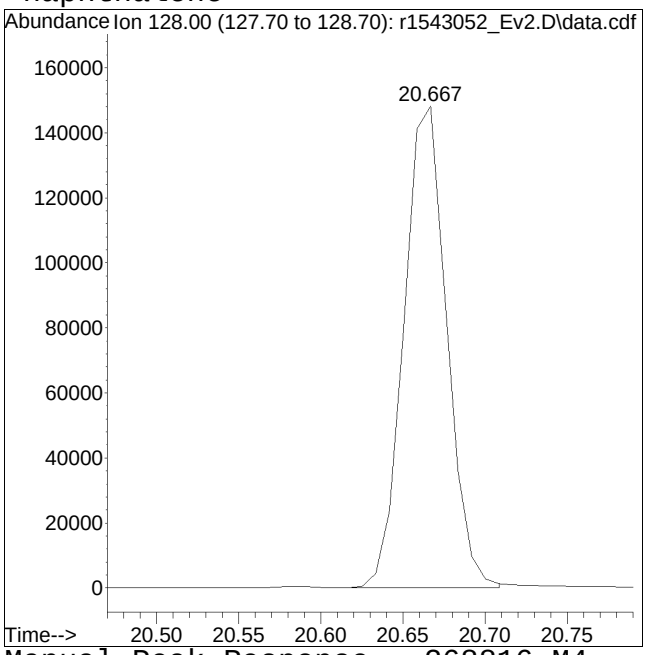
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TSIM15_231120.M
Data File : r1543052_Ev2.D Operator : AIRLAB15:KJD
Date Inj'd : 2/26/2020 0:1: 7 Instrument :
Sample : WG1889453-2,3,250,250,, Quant Date : 2/26/2024 1:46 pm

Compound #83: naphthalene



Original Peak Response = 741



Manual Peak Response = 268816 M4

M4 = Poor automated baseline construction.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-2,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	115	-0.02
2		propylene	0.644	0.677	-5.1	133	0.00
3		dichlorodifluoromethane	0.891	0.950	-6.6	118	0.00
4	C	chloromethane	0.442	0.437	1.1	118	0.00
5		Freon-114	1.321	1.407	-6.5	123	0.00
6	C	vinyl chloride	0.626	0.608	2.9	118	0.00
7	C	1,3-butadiene	0.440	0.499	-13.4	138	0.00
8	C	bromomethane	0.470	0.452	3.8	119	0.00
9	C	chloroethane	0.237	0.246	-3.8	128	-0.01
10		ethanol	0.162	0.207	-27.8	143#	0.00
11	C	vinyl bromide	0.451	0.476	-5.5	123	0.00
12	C	acrolein	0.202	0.196	3.0	122	0.00
13		acetone	0.341	0.386	-13.2	134	0.00
14		trichlorofluoromethane	0.550	0.585	-6.4	125	0.00
15		isopropyl alcohol	0.576	0.618	-7.3	127	0.00
16	C	acrylonitrile	0.362	0.386	-6.6	125	-0.01
17	C	1,1-dichloroethene	0.937	0.962	-2.7	117	-0.01
18		tertiary butyl alcohol	1.274	1.309	-2.7	113	-0.01
19	C	methylene chloride	0.814	0.739	9.2	107	0.00
20	C	3-chloropropene	1.102	1.145	-3.9	123	-0.01
21	C	carbon disulfide	2.357	2.048	13.1	102	-0.02
22		Freon 113	1.442	1.217	15.6	101	-0.01
23		trans-1,2-dichloroethene	1.134	1.020	10.1	111	-0.01
24	C	1,1-dichloroethane	1.404	1.243	11.5	104	-0.01
25	C	MTBE	2.009	1.897	5.6	113	-0.01
26	C	vinyl acetate	1.489	1.319	11.4	108	-0.01
27	C	2-butanone	1.720	1.549	9.9	106	-0.01
28		cis-1,2-dichloroethene	1.014	0.910	10.3	107	-0.02
29		Ethyl Acetate	0.264	0.264	0.0	115	-0.01
30	C	chloroform	1.330	1.171	12.0	104	-0.01
31		Tetrahydrofuran	1.071	1.022	4.6	112	-0.02
32	C	1,2-dichloroethane	0.725	0.686	5.4	115	-0.02
33	I	1,4-difluorobenzene	1.000	1.000	0.0	106	-0.01
34	C	hexane	0.352	0.384	-9.1	115	-0.01
36	C	1,1,1-trichloroethane	0.315	0.300	4.8	106	-0.01
37	C	benzene	0.758	0.681	10.2	95	-0.01
38	C	carbon tetrachloride	0.285	0.282	1.1	106	-0.01
39		cyclohexane	0.392	0.424	-8.2	114	-0.01

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-2,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Dibromomethane	0.200	0.182	9.0	99	-0.02
41	C	1,2-dichloropropane	0.262	0.241	8.0	101	-0.01
42		bromodichloromethane	0.361	0.387	-7.2	117	-0.01
43	C	1,4-dioxane	0.168	0.173	-3.0	117	-0.01
44	C	trichloroethene	0.342	0.302	11.7	95	-0.01
45	C	2,2,4-trimethylpentane	1.124	1.243	-10.6	116	-0.02
46		heptane	0.440	0.492	-11.8	118	-0.01
47	C	cis-1,3-dichloropropene	0.377	0.360	4.5	103	-0.02
48	C	4-methyl-2-pentanone	0.491	0.575	-17.1	118	-0.02
49		trans-1,3-dichloropropene	0.299	0.289	3.3	102	-0.01
50	C	1,1,2-trichloroethane	0.283	0.259	8.5	98	-0.02
51	I	chlorobenzene-D5	1.000	1.000	0.0	123	-0.01
52	C	toluene	8.740	6.811	22.1	97	-0.02
54		2-hexanone	4.926	4.405	10.6	114	-0.01
55		dibromochloromethane	3.875	3.425	11.6	114	-0.02
56	C	1,2-dibromoethane	4.102	3.144	23.4	98	-0.01
57	C	tetrachloroethene	3.650	2.732	25.2	94	-0.02
58		1,1,1,2-tetrachloroethane	3.116	2.446	21.5	100	-0.01
59	C	chlorobenzene	7.265	5.617	22.7	96	-0.02
60	C	ethylbenzene	10.626	8.338	21.5	97	-0.02
61	C	m+p-xylene	8.402	7.002	16.7	101	-0.02
62	C	bromoform	2.919	2.568	12.0	112	-0.01
63	C	styrene	6.981	5.701	18.3	95	-0.02
64	C	1,1,2,2-tetrachloroethane	5.883	4.863	17.3	100	-0.02
65	C	o-xylene	8.344	7.088	15.1	103	-0.01
66		1,2,3-Trichloropropane	4.616	3.826	17.1	103	-0.02
68	C	isopropylbenzene	10.832	9.216	14.9	102	-0.02
69		Bromobenzene	6.182	5.168	16.4	102	-0.01
70		4-ethyl toluene	11.306	10.007	11.5	107	-0.01
71		1,3,5-trimethylbenzene	9.687	8.439	12.9	99	-0.01
72		tert-butylbenzene	9.709	8.485	12.6	100	-0.01
73		1,2,4-trimethylbenzene	9.381	8.242	12.1	100	-0.02
74	C	Benzyl Chloride	5.261	4.873	7.4	105	-0.01
75		1,3-dichlorobenzene	7.412	6.105	17.6	94	-0.01
76	C	1,4-dichlorobenzene	7.272	5.765	20.7	91	-0.01
77		sec-butylbenzene	13.556	11.657	14.0	100	-0.01
78		p-isopropyltoluene	11.575	9.698	16.2	94	-0.01
79		1,2-dichlorobenzene	6.981	5.552	20.5	91	-0.01

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-2,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	n-butylbenzene	10.262	9.225	10.1	102	-0.01
81	1,2-dibromo-3-chloropropane	2.285	2.197	3.9	110	-0.01
82 C	1,2,4-trichlorobenzene	5.022	3.728	25.8	75	-0.02
83	naphthalene	12.220	10.952	10.4	93	-0.02
84	1,2,3-trichlorobenzene	4.331	3.733	13.8	86	-0.02
85 C	hexachlorobutadiene	3.571	3.074	13.9	90	-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\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-2,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.423	49	255414	10.000	ppbV	-0.02
Standard Area = 255414			Recovery = 100.00%			
33) 1,4-difluorobenzene	5.357	114	870699	10.000	ppbV	-0.01
Standard Area = 870699			Recovery = 100.00%			
51) chlorobenzene-D5	7.327	54	103994	10.000	ppbV	-0.01
Standard Area = 103994			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) propylene	2.150	41	86422M6	5.252	ppbV	
3) dichlorodifluoromethane	2.190	85	121281	5.328	ppbV	99
4) chloromethane	2.295	50	55752	4.941	ppbV	100
5) Freon-114	2.355	85	179627	5.324	ppbV	94
6) vinyl chloride	2.425	62	77617	4.855	ppbV	100
7) 1,3-butadiene	2.495	54	63737	5.671	ppbV	93
8) bromomethane	2.620	94	57733	4.807	ppbV	99
9) chloroethane	2.695	64	31413	5.200	ppbV	96
10) ethanol	2.735	31	132467	32.020	ppbV	96
11) vinyl bromide	2.851	106	60792	5.281	ppbV	99
12) acrolein	2.899	56	25003	4.847	ppbV	95
13) acetone	2.956	43	246363	28.307	ppbV	98
14) trichlorofluoromethane	3.043	101	74720	5.321	ppbV	99
15) isopropyl alcohol	3.064	45	197342	13.407	ppbV	99
16) acrylonitrile	3.172	53	49312	5.329	ppbV	99
17) 1,1-dichloroethene	3.340	61	122799	5.129	ppbV	94
18) tertiary butyl alcohol	3.355	59	167124	5.137	ppbV	97
19) methylene chloride	3.395	49	94420	4.539	ppbV	99
20) 3-chloropropene	3.450	41	146200	5.193	ppbV	94
21) carbon disulfide	3.540	76	261575	4.344	ppbV	97
22) Freon 113	3.525	101	155415	4.219	ppbV	98
23) trans-1,2-dichloroethene	3.843	61	130312	4.500	ppbV	97
24) 1,1-dichloroethane	3.943	63	158690	4.424	ppbV	100
25) MTBE	3.970	73	242259	4.722	ppbV	99
26) vinyl acetate	4.010	43	168462	4.431	ppbV	98
27) 2-butanone	4.130	43	197879	4.504	ppbV	99
28) cis-1,2-dichloroethene	4.343	61	116172	4.484	ppbV	84
29) Ethyl Acetate	4.450	61	33681	4.987	ppbV	91
30) chloroform	4.490	83	149504	4.400	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-2,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
31) Tetrahydrofuran	4.677	42	130468	4.770	ppbV		90
32) 1,2-dichloroethane	4.843	62	87633	4.735	ppbV		97
34) hexane	4.450	57	167255	5.456	ppbV		97
36) 1,1,1-trichloroethane	4.970	97	130670	4.764	ppbV		99
37) benzene	5.190	78	296265	4.491	ppbV		100
38) carbon tetrachloride	5.263	117	122943	4.954	ppbV		99
39) cyclohexane	5.323	56	184558	5.406	ppbV		99
40) Dibromomethane	5.563	93	79139	4.539	ppbV	#	100
41) 1,2-dichloropropane	5.577	63	104837	4.594	ppbV		99
42) bromodichloromethane	5.670	83	168370	5.359	ppbV		98
43) 1,4-dioxane	5.683	88	75470	5.152	ppbV		99
44) trichloroethene	5.690	130	131665	4.425	ppbV		99
45) 2,2,4-trimethylpentane	5.703	57	541149	5.531	ppbV		96
46) heptane	5.823	43	214263	5.590	ppbV		100
47) cis-1,3-dichloropropene	6.080	75	156644	4.772	ppbV		93
48) 4-methyl-2-pentanone	6.093	43	250216	5.850	ppbV	#	94
49) trans-1,3-dichloropropene	6.320	75	125792	4.827	ppbV		99
50) 1,1,2-trichloroethane	6.400	97	112826	4.585	ppbV	#	92
52) toluene	6.527	91	354164	3.896	ppbV		100
54) 2-hexanone	6.640	43	229024	4.471	ppbV		99
55) dibromochloromethane	6.720	129	178094	4.419	ppbV		99
56) 1,2-dibromoethane	6.833	107	163479	3.832	ppbV		100
57) tetrachloroethene	7.040	166	142068	3.743	ppbV	#	95
58) 1,1,1,2-tetrachloroethane	7.340	131	127162	3.924	ppbV		100
59) chlorobenzene	7.347	112	292091	3.866	ppbV		92
60) ethylbenzene	7.513	91	433571	3.924	ppbV		95
61) m+p-xylene	7.593	91	728198	8.334	ppbV		96
62) bromoform	7.640	173	133530	4.399	ppbV		100
63) styrene	7.760	104	296434	4.083	ppbV		94
64) 1,1,2,2-tetrachloroethane	7.807	83	252853	4.133	ppbV		98
65) o-xylene	7.813	91	368550	4.247	ppbV		100
66) 1,2,3-Trichloropropane	7.867	75	198931	4.144	ppbV		98
68) isopropylbenzene	8.087	105	479215	4.254	ppbV		96
69) Bromobenzene	8.140	77	268736	4.180	ppbV		95
70) 4-ethyl toluene	8.413	105	520343	4.426	ppbV		100
71) 1,3,5-trimethylbenzene	8.453	105	438820	4.356	ppbV		99
72) tert-butylbenzene	8.657	119	441188	4.369	ppbV		98
73) 1,2,4-trimethylbenzene	8.657	105	428568	4.393	ppbV	#	82
74) Benzyl Chloride	8.730	91	253392	4.632	ppbV		99
75) 1,3-dichlorobenzene	8.743	146	317422	4.118	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-2,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

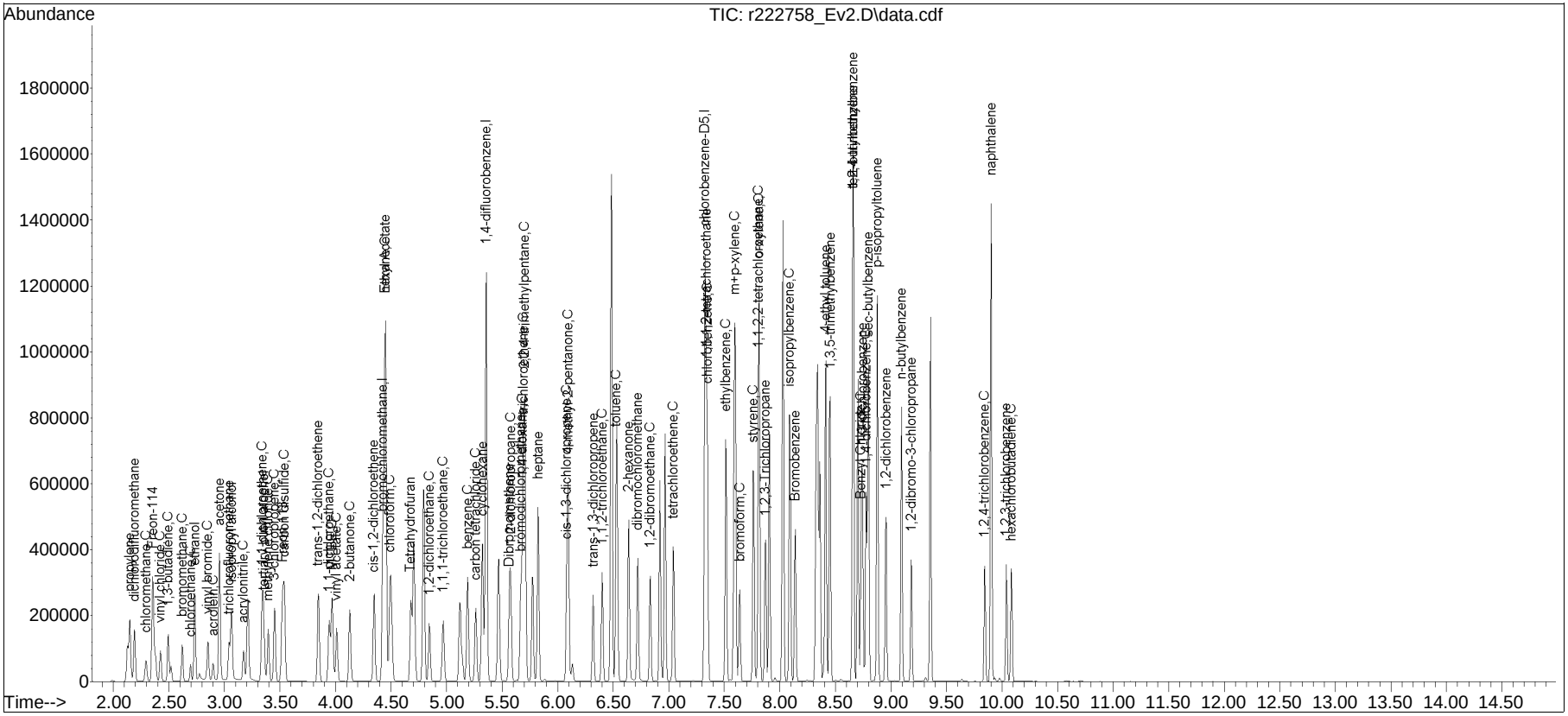
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-dichlorobenzene	8.777	146	299777	3.964	ppbV	96
77) sec-butylbenzene	8.797	105	606137	4.300	ppbV	99
78) p-isopropyltoluene	8.877	119	504251	4.189	ppbV	99
79) 1,2-dichlorobenzene	8.957	146	288711	3.977	ppbV	97
80) n-butylbenzene	9.097	91	479659	4.495	ppbV	98
81) 1,2-dibromo-3-chloropr...	9.183	75	114213	4.807	ppbV	87
82) 1,2,4-trichlorobenzene	9.842	180	193845	3.712	ppbV #	91
83) naphthalene	9.902	128	569475	4.481	ppbV	97
84) 1,2,3-trichlorobenzene	10.038	180	194087	4.309	ppbV #	90
85) hexachlorobutadiene	10.083	225	159820	4.304	ppbV #	87

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

Sub List : Default-LCS-AP2 - All compounds listed1SIM\r222758_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-2,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

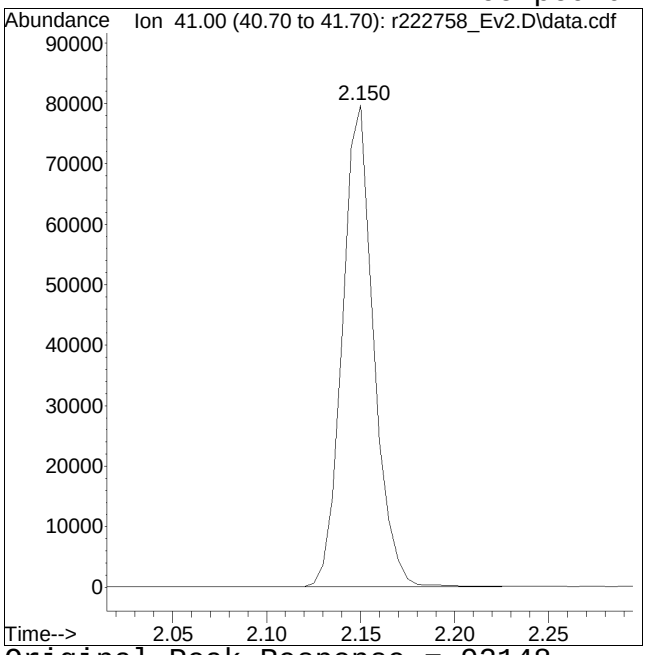


Manual Integration Report

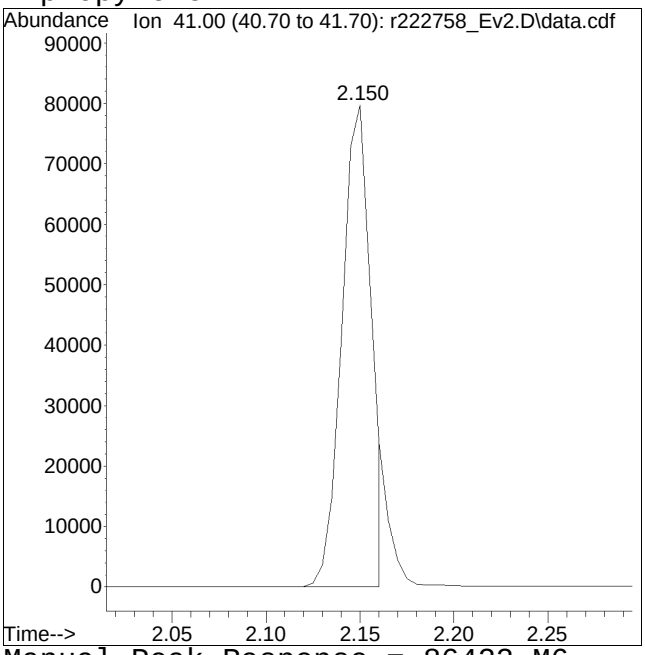
Data Path : O:\Forensics\Data\Airlab22Q
Data File : r222758_Ev2.D
Date Inj'd : 3/1/2020 0:1: 3
Sample : WG1891969-2,3,250,250

Method : TSIM22_231129.M
Operator : AIRLAB22:BJB
Instrument :
Quant Date : 3/1/2024 2:43 pm

Compound #2: propylene



Original Peak Response = 92148



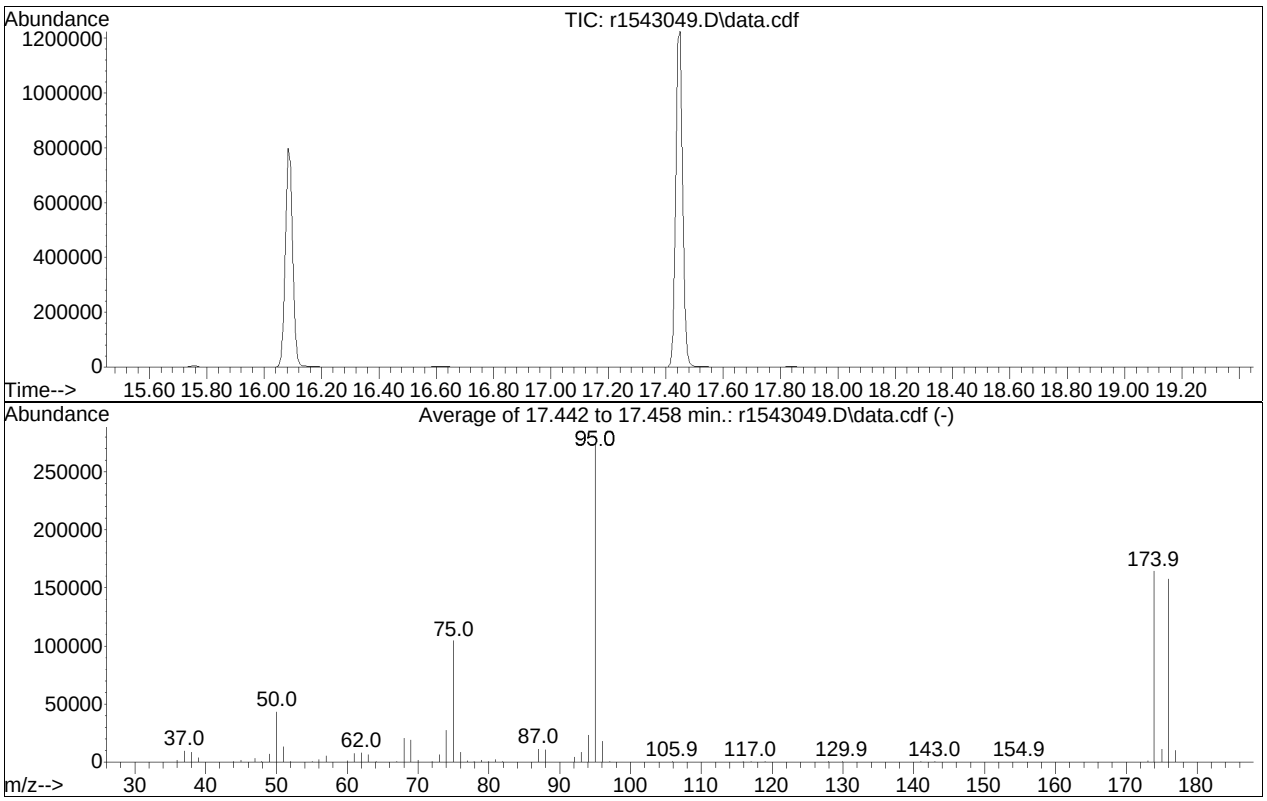
Manual Peak Response = 86422 M6

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

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543049.D
Acq On : 26 Feb 2024 11:04 AM
Operator : AIRLAB15:KJD
Sample : WG1889453-1,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Nov 21 16:16:02 2023



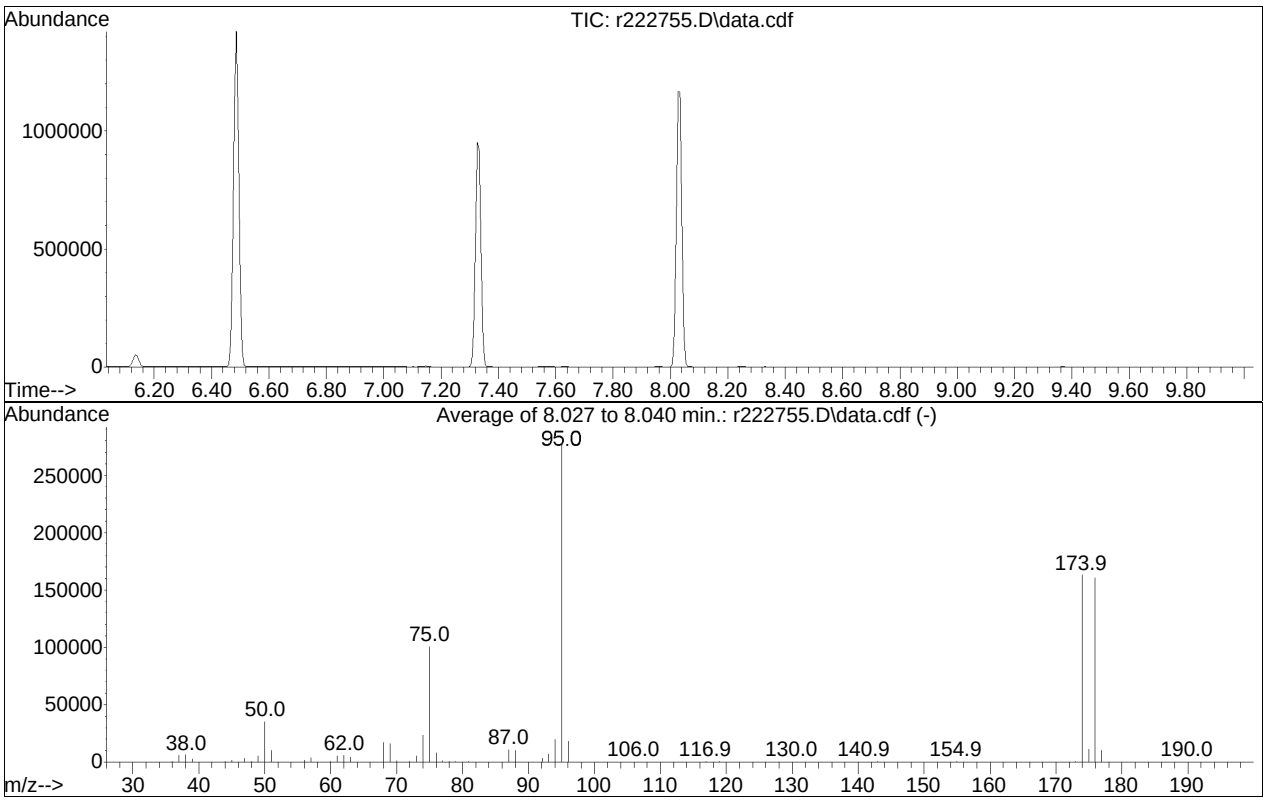
AutoFind: Scans 2067, 2068, 2069; Background Corrected with Scan 2061

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.7	43215	PASS
75	95	30	66	38.0	104540	PASS
95	95	100	100	100.0	275176	PASS
96	95	5	9	6.4	17748	PASS
173	174	0.00	2	0.5	906	PASS
174	95	50	120	59.9	164893	PASS
175	174	4	9	6.9	11362	PASS
176	174	93	101	95.7	157863	PASS
177	176	5	9	6.5	10296	PASS

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222755.D
Acq On : 1 Mar 2024 12:15 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-1,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab22\2024\03\0301T\TFS22_231129.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Dec 01 08:46:43 2023



Spectrum Information: Average of 8.027 to 8.040 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.6	35106	PASS
75	95	30	66	36.1	100572	PASS
95	95	100	100	100.0	278410	PASS
96	95	5	9	6.5	17980	PASS
173	174	0.00	2	0.4	684	PASS
174	95	50	120	58.7	163448	PASS
175	174	4	9	7.1	11586	PASS
176	174	93	101	98.2	160498	PASS
177	176	5	9	6.5	10395	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543054_Ev2.D
Acq On : 26 Feb 2024 4:00 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-4,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:27:55 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

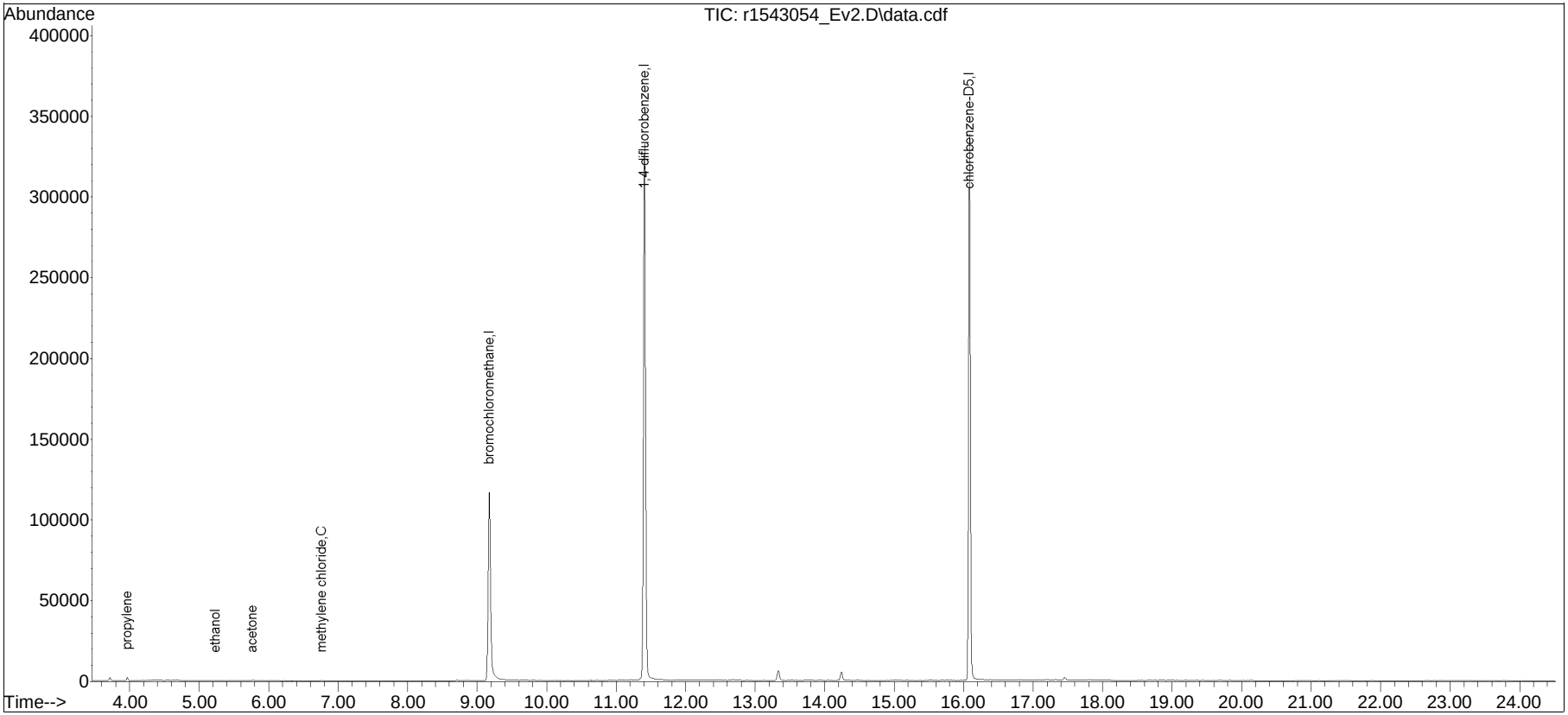
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.175	49	136682	10.000	ppbV	0.11
Standard Area = 147461			Recovery = 92.69%			
33) 1,4-difluorobenzene	11.407	114	385902	10.000	ppbV	# 0.12
Standard Area = 439351			Recovery = 87.83%			
51) chlorobenzene-D5	16.083	54	69026	10.000	ppbV	0.08
Standard Area = 77617			Recovery = 88.93%			
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 listed6SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543054_Ev2.D
Acq On : 26 Feb 2024 4:00 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-4,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:27:55 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_231120.M
Data File	: r1543054_Ev2.D	Operator	: AIRLAB15:KJD
Date Inj'd	: 2/26/2020 0:4: 0	Instrument	:
Sample	: WG1889453-4,3,250,250,,	Quant Date	: 2/27/2024 7:27 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222760_Ev2.D
Acq On : 1 Mar 2024 3:57 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-4,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:27:33 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

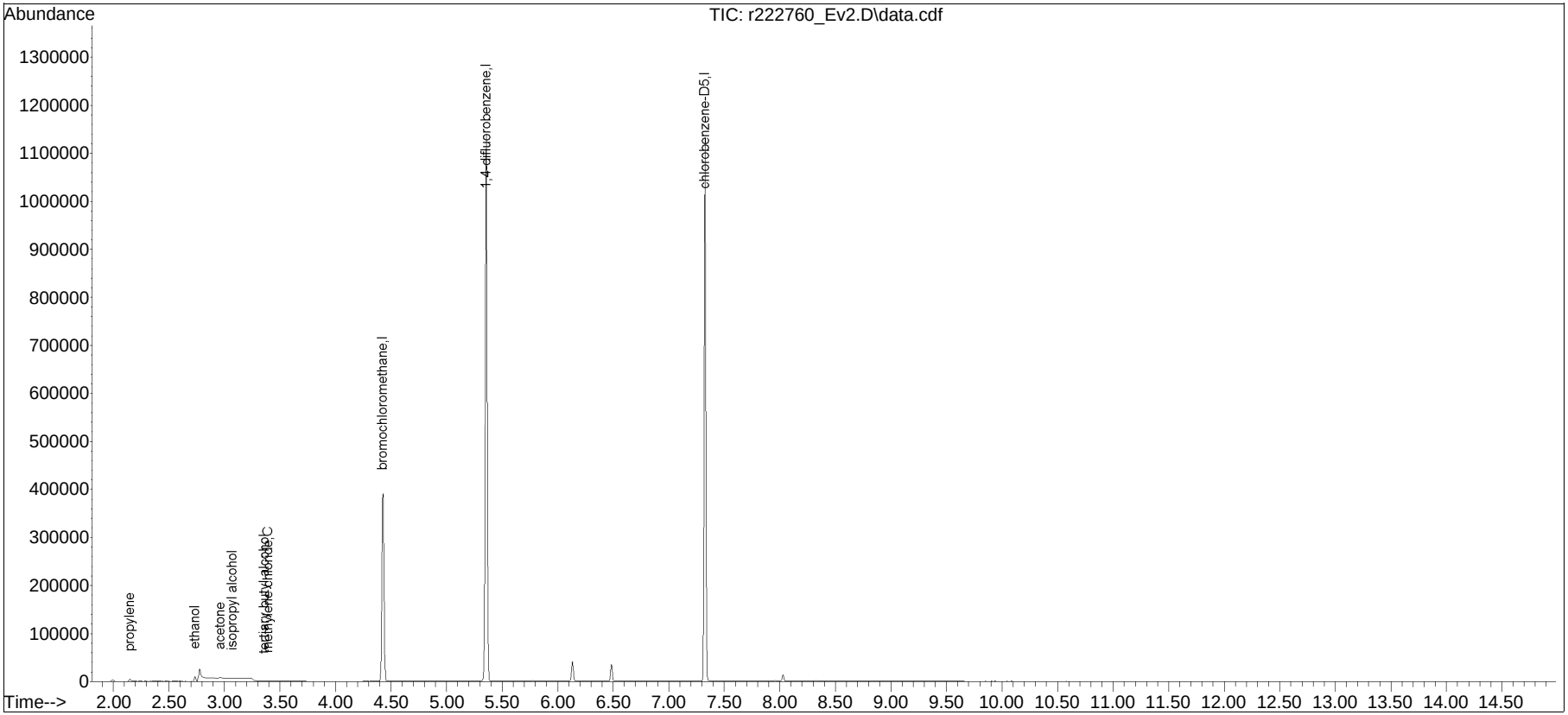
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.423	49	238578	10.000	ppbV	-0.02
Standard Area = 255414			Recovery = 93.41%			
33) 1,4-difluorobenzene	5.357	114	802556	10.000	ppbV	-0.01
Standard Area = 870699			Recovery = 92.17%			
51) chlorobenzene-D5	7.327	54	98389	10.000	ppbV	-0.01
Standard Area = 103994			Recovery = 94.61%			
System Monitoring Compounds						
Target Compounds						Qvalue
10) ethanol	2.735	31	7077	1.831	ppbV	83

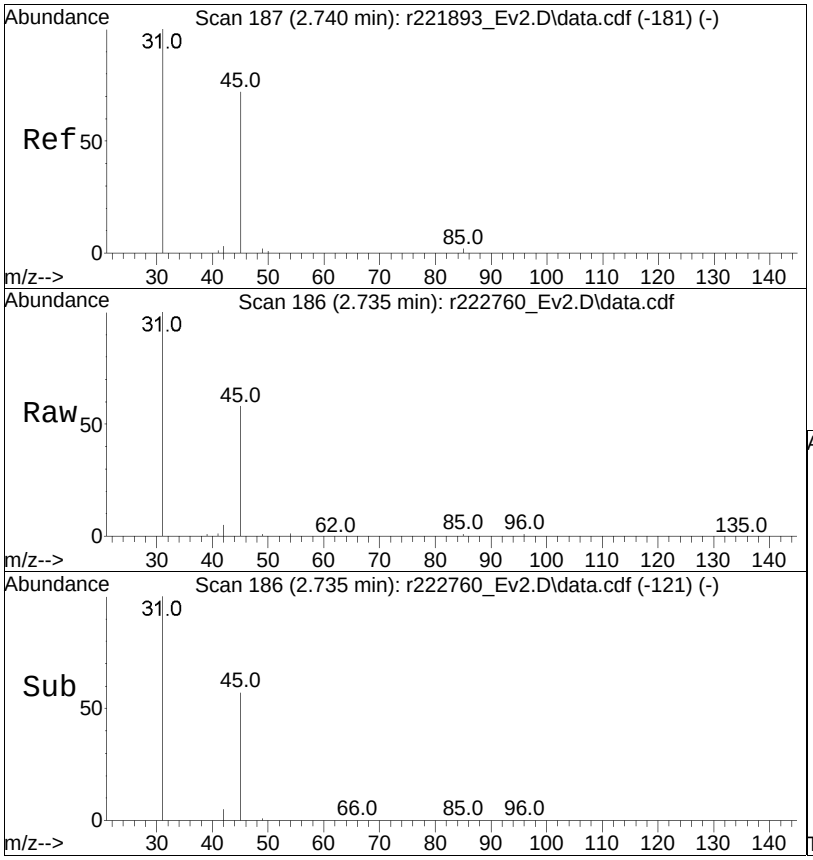
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed1SIM\r222758_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222760_Ev2.D
Acq On : 1 Mar 2024 3:57 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-4,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:27:33 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

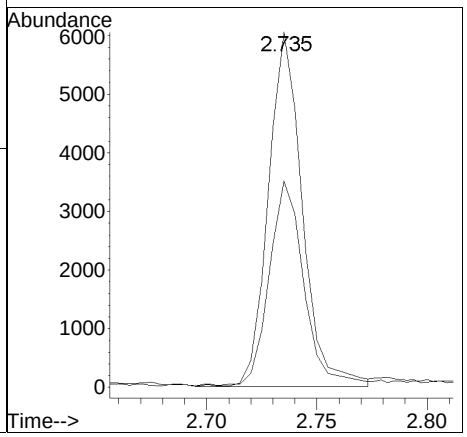




#10
ethanol
Concen: 1.83 ppbV
RT: 2.735 min Scan# 186
Delta R.T. -0.005 min
Lab File: r222760_Ev2.D
Acq: 1 Mar 2024 3:57 PM

Tgt Ion: 31 Resp: 7077

Ion	Ratio	Lower	Upper
31	100		
45	58.1	57.8	86.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab22Q	Method	: TSIM22_231129.M
Data File	: r222760_Ev2.D	Operator	: AIRLAB22:BJB
Date Inj'd	: 3/1/2020 0:3: 7	Instrument	:
Sample	: WG1891969-4,3,250,250	Quant Date	: 3/2/2024 8:27 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-3,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 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	71	0.10
2		propylene	5.000	5.301	-6.0	82	0.04
3		dichlorodifluoromethane	5.000	4.477	10.5	61	0.04
4	C	chloromethane	5.000	4.309	13.8	58	0.04
5		Freon-114	5.000	4.746	5.1	65	0.04
6	C	vinyl chloride	5.000	4.669	6.6	67	0.05
7	C	1,3-butadiene	5.000	4.594	8.1	63	0.05
8	C	bromomethane	5.000	4.443	11.1	64	0.05
9	C	chloroethane	5.000	5.175	-3.5	74	0.06
10		ethanol	25.000	23.271	6.9	62	0.06
11	C	vinyl bromide	5.000	5.164	-3.3	76	0.06
12	C	acrolein	5.000	3.844	23.1	57	0.07
13		acetone	25.000	29.854	-19.4	87	0.07
14		trichlorofluoromethane	5.000	5.507	-10.1	78	0.07
15		isopropyl alcohol	12.500	11.542	7.7	69	0.07
16	C	acrylonitrile	5.000	4.298	14.0	57	0.07
17	C	1,1-dichloroethene	5.000	5.129	-2.6	75	0.08
18		tertiary butyl alcohol	5.000	4.560	8.8	69	0.08
19	C	methylene chloride	5.000	4.452	11.0	63	0.08
20	C	3-chloropropene	5.000	5.106	-2.1	74	0.08
21	C	carbon disulfide	5.000	4.126	17.5	60	0.08
22		Freon 113	5.000	4.984	0.3	73	0.08
23		trans-1,2-dichloroethene	5.000	4.914	1.7	71	0.09
24	C	1,1-dichloroethane	5.000	5.034	-0.7	73	0.08
25	C	MTBE	5.000	4.190	16.2	61	0.09
26	C	vinyl acetate	5.000	4.123	17.5	64	0.10
27	C	2-butanone	5.000	4.622	7.6	68	0.09
28		cis-1,2-dichloroethene	5.000	4.846	3.1	70	0.10
29		Ethyl Acetate	5.000	5.072	-1.4	75	0.10
30	C	chloroform	5.000	4.271	14.6	61	0.10
31		Tetrahydrofuran	5.000	4.468	10.6	65	0.11
32	C	1,2-dichloroethane	5.000	5.459	-9.2	79	0.11
33	I	1,4-difluorobenzene	10.000	10.000	0.0	73	0.12
34	C	hexane	5.000	4.892	2.2	73	0.10
36	C	1,1,1-trichloroethane	5.000	5.075	-1.5	74	0.12
37	C	benzene	5.000	3.944	21.1	57	0.11
38	C	carbon tetrachloride	5.000	4.686	6.3	65	0.11
39		cyclohexane	5.000	4.546	9.1	67	0.11

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-3,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 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	4.483	10.3	69	0.12
41	C	1,2-dichloropropane	5.000	4.559	8.8	69	0.11
42		bromodichloromethane	5.000	4.639	7.2	66	0.12
43	C	1,4-dioxane	5.000	4.240	15.2	63	0.12
44	C	trichloroethene	5.000	4.364	12.7	64	0.11
45	C	2,2,4-trimethylpentane	5.000	4.978	0.4	73	0.11
46		heptane	5.000	4.732	5.4	69	0.11
47	C	cis-1,3-dichloropropene	5.000	4.087	18.3	55	0.11
48	C	4-methyl-2-pentanone	5.000	4.655	6.9	67	0.12
49		trans-1,3-dichloropropene	5.000	4.104	17.9	53	0.11
50	C	1,1,2-trichloroethane	5.000	4.606	7.9	68	0.10
51	I	chlorobenzene-D5	10.000	10.000	0.0	78	0.08
52	C	toluene	5.000	4.181	16.4	65	0.10
54		2-hexanone	5.000	4.145	17.1	63	0.09
55		dibromochloromethane	5.000	4.975	0.5	76	0.09
56	C	1,2-dibromoethane	5.000	4.133	17.3	61	0.09
57	C	tetrachloroethene	5.000	3.690	26.2	58	0.08
58		1,1,1,2-tetrachloroethane	5.000	4.286	14.3	68	0.07
59	C	chlorobenzene	5.000	3.821	23.6	59	0.07
60	C	ethylbenzene	5.000	4.102	18.0	62	0.07
61	C	m+p-xylene	10.000	8.812	11.9	66	0.07
62	C	bromoform	5.000	4.815	3.7	72	0.07
63	C	styrene	5.000	3.983	20.3	58	0.07
64	C	1,1,2,2-tetrachloroethane	5.000	3.935	21.3	58	0.07
65	C	o-xylene	5.000	4.462	10.8	67	0.07
66		1,2,3-Trichloropropane	5.000	3.947	21.1	61	0.07
68	C	isopropylbenzene	5.000	4.106	17.9	64	0.06
69		Bromobenzene	5.000	3.880	22.4	60	0.06
70		4-ethyl toluene	5.000	4.322	13.6	64	0.05
71		1,3,5-trimethylbenzene	5.000	4.803	3.9	63	0.06
72		tert-butylbenzene	5.000	3.875	22.5	58	0.05
73		1,2,4-trimethylbenzene	5.000	4.326	13.5	61	0.05
74	C	Benzyl Chloride	5.000	4.422	11.6	64	0.06
75		1,3-dichlorobenzene	5.000	4.206	15.9	61	0.05
76	C	1,4-dichlorobenzene	5.000	4.210	15.8	60	0.05
77		sec-butylbenzene	5.000	4.158	16.8	63	0.06
78		p-isopropyltoluene	5.000	3.835	23.3	57	0.06
79		1,2-dichlorobenzene	5.000	4.230	15.4	61	0.07

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-3,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 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	4.310	13.8	65	0.07
81	1,2-dibromo-3-chloropropane	5.000	4.687	6.3	63	0.08
82 C	1,2,4-trichlorobenzene	5.000	3.730	25.4	50	0.11
83	naphthalene	5.000	4.194	16.1	59	0.11
84	1,2,3-trichlorobenzene	5.000	4.120	17.6	59	0.10
85 C	hexachlorobutadiene	5.000	4.066	18.7	57	0.10

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-3,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	115	-0.02
2		propylene	5.000	5.252	-5.0	133	0.00
3		dichlorodifluoromethane	5.000	5.328	-6.6	118	0.00
4	C	chloromethane	5.000	4.941	1.2	118	0.00
5		Freon-114	5.000	5.324	-6.5	123	0.00
6	C	vinyl chloride	5.000	4.855	2.9	118	0.00
7	C	1,3-butadiene	5.000	5.671	-13.4	138	0.00
8	C	bromomethane	5.000	4.807	3.9	119	0.00
9	C	chloroethane	5.000	5.200	-4.0	128	-0.01
10		ethanol	25.000	32.020	-28.1	143	0.00
11	C	vinyl bromide	5.000	5.281	-5.6	123	0.00
12	C	acrolein	5.000	4.847	3.1	122	0.00
13		acetone	25.000	28.307	-13.2	134	0.00
14		trichlorofluoromethane	5.000	5.321	-6.4	125	0.00
15		isopropyl alcohol	12.500	13.407	-7.3	127	0.00
16	C	acrylonitrile	5.000	5.329	-6.6	125	-0.01
17	C	1,1-dichloroethene	5.000	5.129	-2.6	117	-0.01
18		tertiary butyl alcohol	5.000	5.137	-2.7	113	-0.01
19	C	methylene chloride	5.000	4.539	9.2	107	0.00
20	C	3-chloropropene	5.000	5.193	-3.9	123	-0.01
21	C	carbon disulfide	5.000	4.344	13.1	102	-0.02
22		Freon 113	5.000	4.219	15.6	101	-0.01
23		trans-1,2-dichloroethene	5.000	4.500	10.0	111	-0.01
24	C	1,1-dichloroethane	5.000	4.424	11.5	104	-0.01
25	C	MTBE	5.000	4.722	5.6	113	-0.01
26	C	vinyl acetate	5.000	4.431	11.4	108	-0.01
27	C	2-butanone	5.000	4.504	9.9	106	-0.01
28		cis-1,2-dichloroethene	5.000	4.484	10.3	107	-0.02
29		Ethyl Acetate	5.000	4.987	0.3	115	-0.01
30	C	chloroform	5.000	4.400	12.0	104	-0.01
31		Tetrahydrofuran	5.000	4.770	4.6	112	-0.02
32	C	1,2-dichloroethane	5.000	4.735	5.3	115	-0.02
33	I	1,4-difluorobenzene	10.000	10.000	0.0	106	-0.01
34	C	hexane	5.000	5.456	-9.1	115	-0.01
36	C	1,1,1-trichloroethane	5.000	4.764	4.7	106	-0.01
37	C	benzene	5.000	4.491	10.2	95	-0.01
38	C	carbon tetrachloride	5.000	4.954	0.9	106	-0.01
39		cyclohexane	5.000	5.406	-8.1	114	-0.01

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-3,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		Dibromomethane	5.000	4.539	9.2	99	-0.02
41	C	1,2-dichloropropane	5.000	4.594	8.1	101	-0.01
42		bromodichloromethane	5.000	5.359	-7.2	117	-0.01
43	C	1,4-dioxane	5.000	5.152	-3.0	117	-0.01
44	C	trichloroethene	5.000	4.425	11.5	95	-0.01
45	C	2,2,4-trimethylpentane	5.000	5.531	-10.6	116	-0.02
46		heptane	5.000	5.590	-11.8	118	-0.01
47	C	cis-1,3-dichloropropene	5.000	4.772	4.6	103	-0.02
48	C	4-methyl-2-pentanone	5.000	5.850	-17.0	118	-0.02
49		trans-1,3-dichloropropene	5.000	4.827	3.5	102	-0.01
50	C	1,1,2-trichloroethane	5.000	4.585	8.3	98	-0.02
51	I	chlorobenzene-D5	10.000	10.000	0.0	123	-0.01
52	C	toluene	5.000	3.896	22.1	97	-0.02
54		2-hexanone	5.000	4.471	10.6	114	-0.01
55		dibromochloromethane	5.000	4.419	11.6	114	-0.02
56	C	1,2-dibromoethane	5.000	3.832	23.4	98	-0.01
57	C	tetrachloroethene	5.000	3.743	25.1	94	-0.02
58		1,1,1,2-tetrachloroethane	5.000	3.924	21.5	100	-0.01
59	C	chlorobenzene	5.000	3.866	22.7	96	-0.02
60	C	ethylbenzene	5.000	3.924	21.5	97	-0.02
61	C	m+p-xylene	10.000	8.334	16.7	101	-0.02
62	C	bromoform	5.000	4.399	12.0	112	-0.01
63	C	styrene	5.000	4.083	18.3	95	-0.02
64	C	1,1,2,2-tetrachloroethane	5.000	4.133	17.3	100	-0.02
65	C	o-xylene	5.000	4.247	15.1	103	-0.01
66		1,2,3-Trichloropropane	5.000	4.144	17.1	103	-0.02
68	C	isopropylbenzene	5.000	4.254	14.9	102	-0.02
69		Bromobenzene	5.000	4.180	16.4	102	-0.01
70		4-ethyl toluene	5.000	4.426	11.5	107	-0.01
71		1,3,5-trimethylbenzene	5.000	4.356	12.9	99	-0.01
72		tert-butylbenzene	5.000	4.369	12.6	100	-0.01
73		1,2,4-trimethylbenzene	5.000	4.393	12.1	100	-0.02
74	C	Benzyl Chloride	5.000	4.632	7.4	105	-0.01
75		1,3-dichlorobenzene	5.000	4.118	17.6	94	-0.01
76	C	1,4-dichlorobenzene	5.000	3.964	20.7	91	-0.01
77		sec-butylbenzene	5.000	4.300	14.0	100	-0.01
78		p-isopropyltoluene	5.000	4.189	16.2	94	-0.01
79		1,2-dichlorobenzene	5.000	3.977	20.5	91	-0.01

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-3,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
80	n-butylbenzene	5.000	4.495	10.1	102	-0.01
81	1,2-dibromo-3-chloropropane	5.000	4.807	3.9	110	-0.01
82 C	1,2,4-trichlorobenzene	5.000	3.712	25.8	75	-0.02
83	naphthalene	5.000	4.481	10.4	93	-0.02
84	1,2,3-trichlorobenzene	5.000	4.309	13.8	86	-0.02
85 C	hexachlorobutadiene	5.000	4.304	13.9	90	-0.02

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-3,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

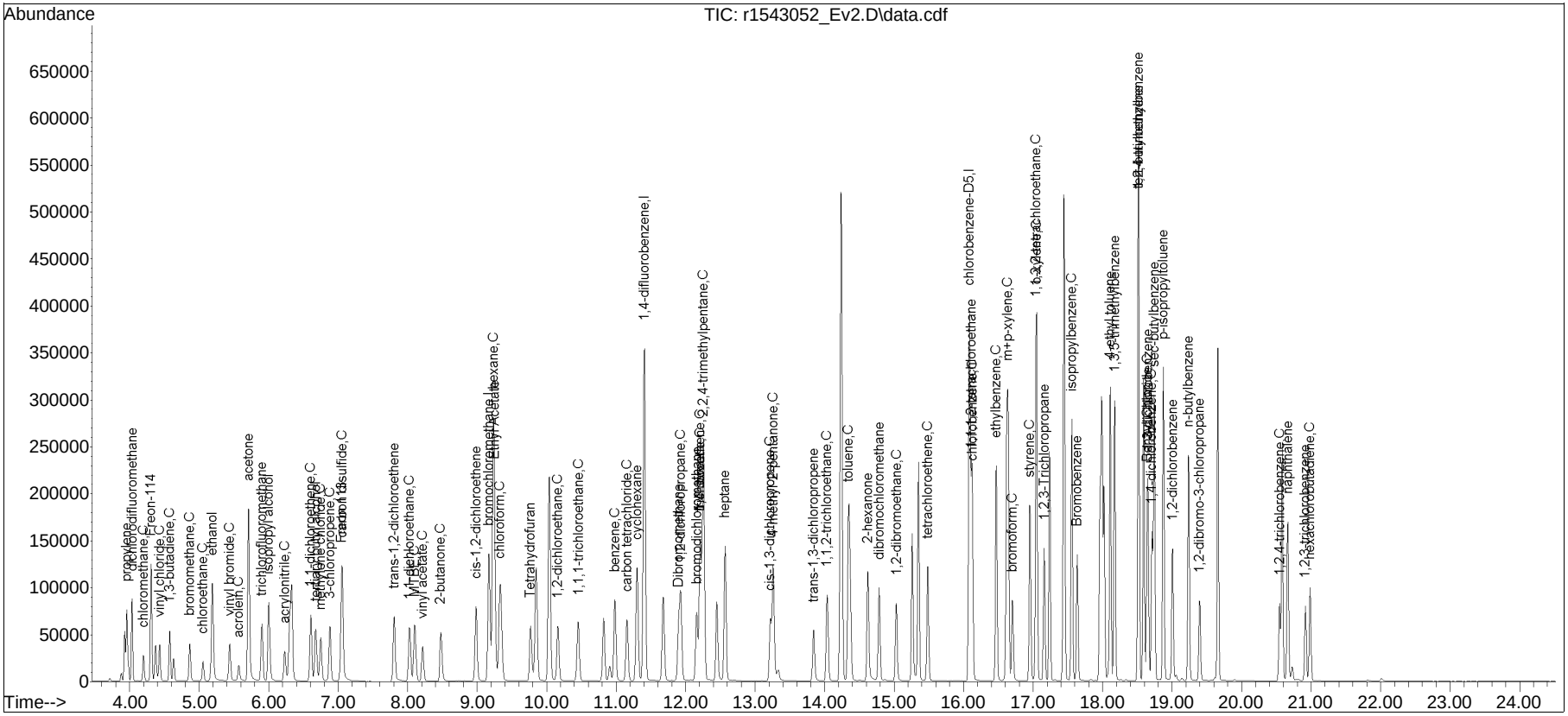
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.167	49	147461	10.000	ppbV		0.10
Standard Area = 147461			Recovery = 100.00%				
33) 1,4-difluorobenzene	11.407	114	439351	10.000	ppbV	#	0.12
Standard Area = 439351			Recovery = 100.00%				
51) chlorobenzene-D5	16.083	54	77617	10.000	ppbV		0.08
Standard Area = 77617			Recovery = 100.00%				
System Monitoring Compounds							
Target Compounds							Qvalue
6) vinyl chloride	4.432	62	43932	4.669	ppbV		95
17) 1,1-dichloroethene	6.606	61	74093	5.129	ppbV		96
28) cis-1,2-dichloroethene	8.983	61	66852	4.846	ppbV		96
36) 1,1,1-trichloroethane	10.458	97	73105	5.075	ppbV		97
38) carbon tetrachloride	11.153	117	63818	4.686	ppbV		98
44) trichloroethene	12.207	130	63980	4.364	ppbV		98
57) tetrachloroethene	15.483	166	64279	3.690	ppbV	#	88

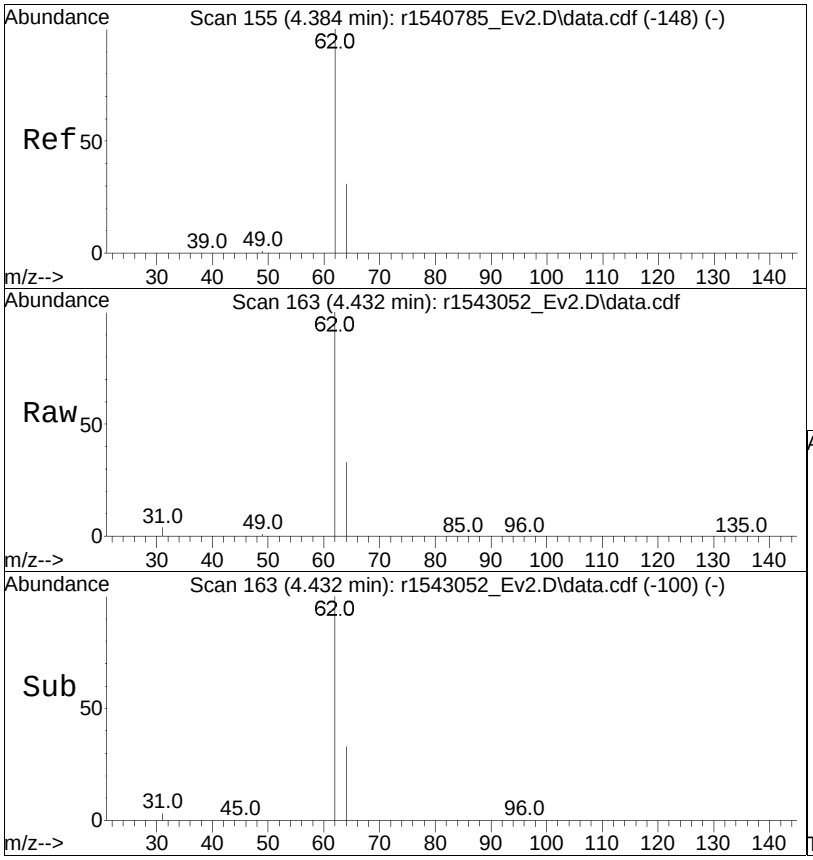
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed6SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543052_Ev2.D
Acq On : 26 Feb 2024 1:17 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-3,3,250,250,,
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 13:46:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:05 2023
Response via : Initial Calibration

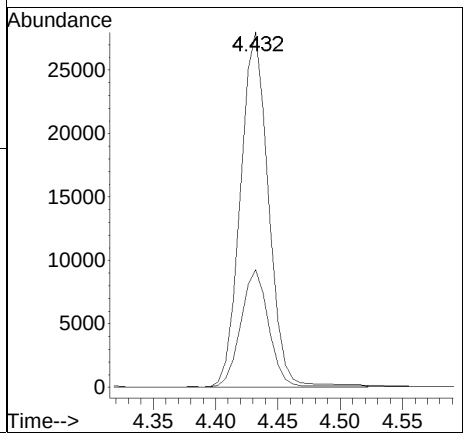


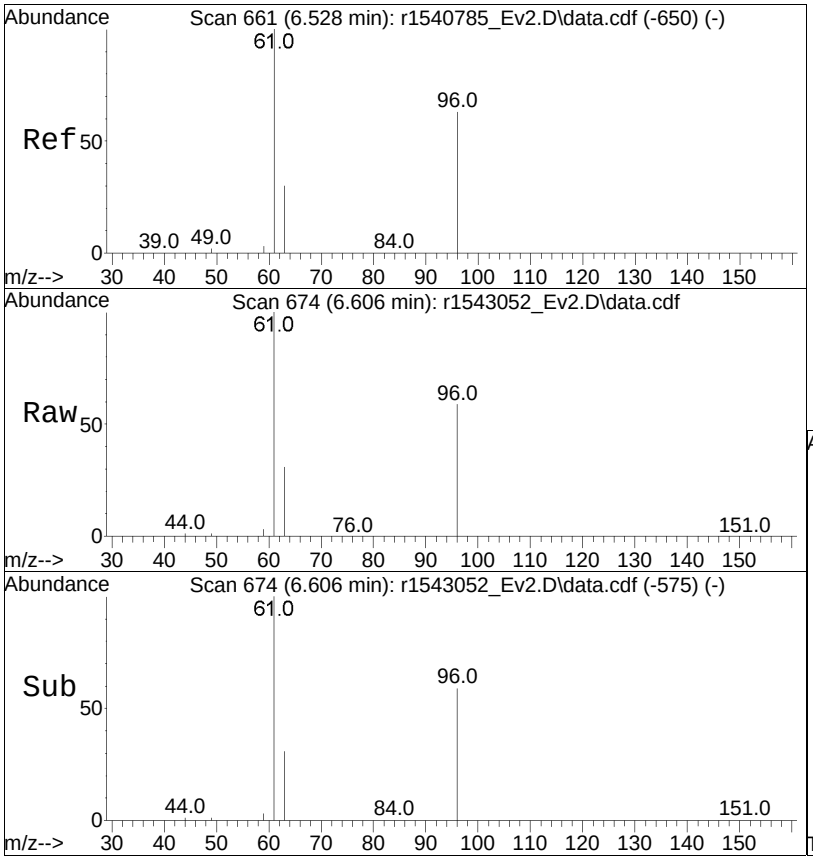


#6
vinyl chloride
Concen: 4.67 ppbV
RT: 4.432 min Scan# 163
Delta R.T. 0.048 min
Lab File: r1543052_Ev2.D
Acq: 26 Feb 2024 1:17 PM

Tgt Ion: 62 Resp: 43932

Ion	Ratio	Lower	Upper
62	100		
64	33.1	24.5	36.7

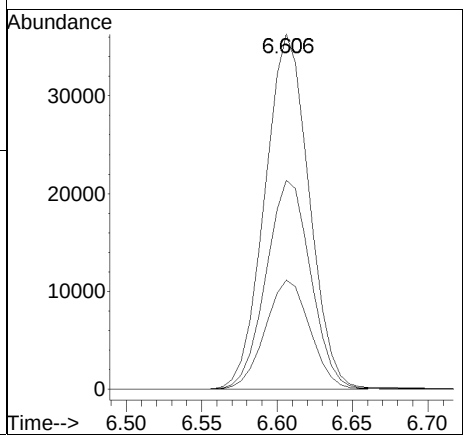


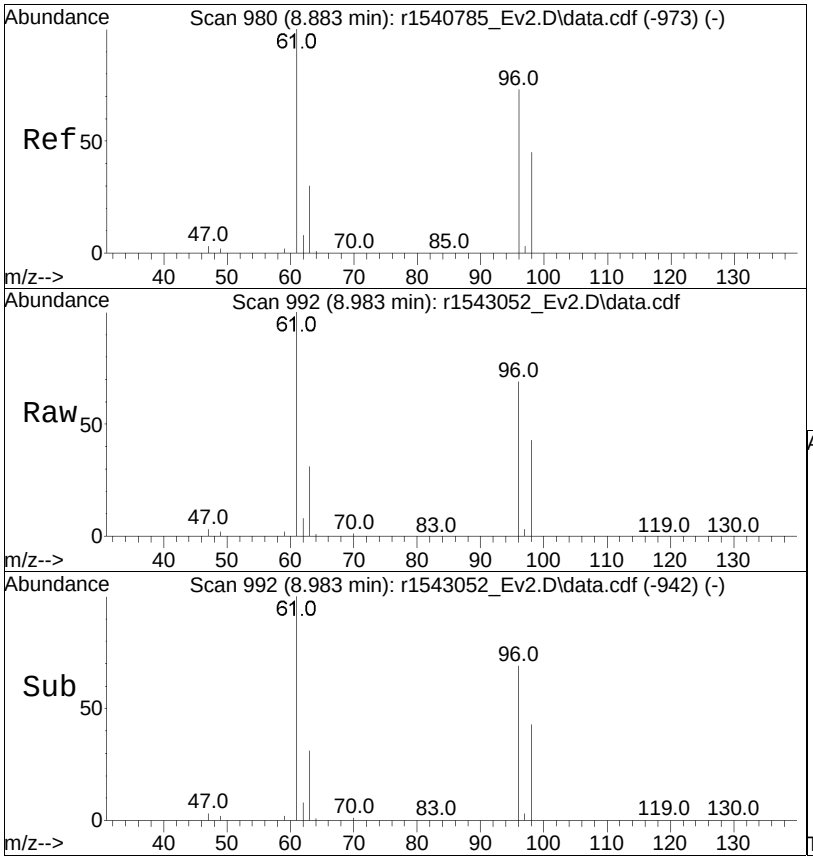


#17
1,1-dichloroethene
Concen: 5.13 ppbV
RT: 6.606 min Scan# 674
Delta R.T. 0.078 min
Lab File: r1543052_Ev2.D
Acq: 26 Feb 2024 1:17 PM

Tgt Ion: 61 Resp: 74093

Ion	Ratio	Lower	Upper
61	100		
96	58.9	50.4	75.6
63	30.7	24.3	36.5

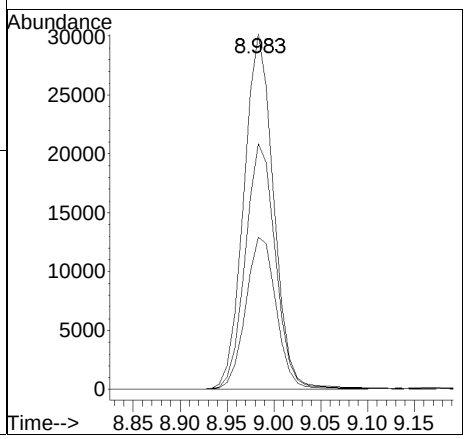


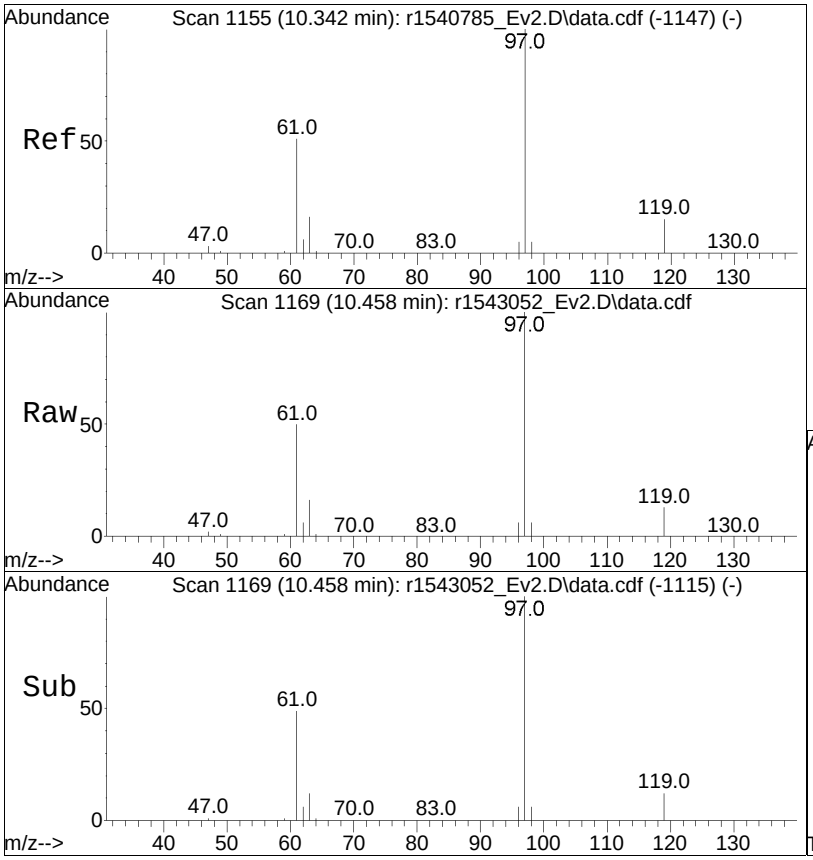


#28
cis-1,2-dichloroethene
Concen: 4.85 ppbV
RT: 8.983 min Scan# 992
Delta R.T. 0.100 min
Lab File: r1543052_Ev2.D
Acq: 26 Feb 2024 1:17 PM

Tgt Ion: 61 Resp: 66852

Ion	Ratio	Lower	Upper
61	100		
96	69.2	58.2	87.2
98	42.8	36.2	54.4

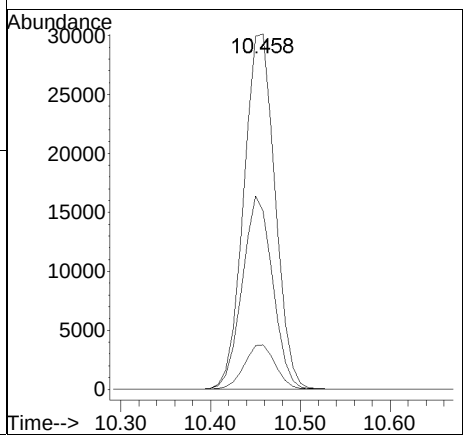


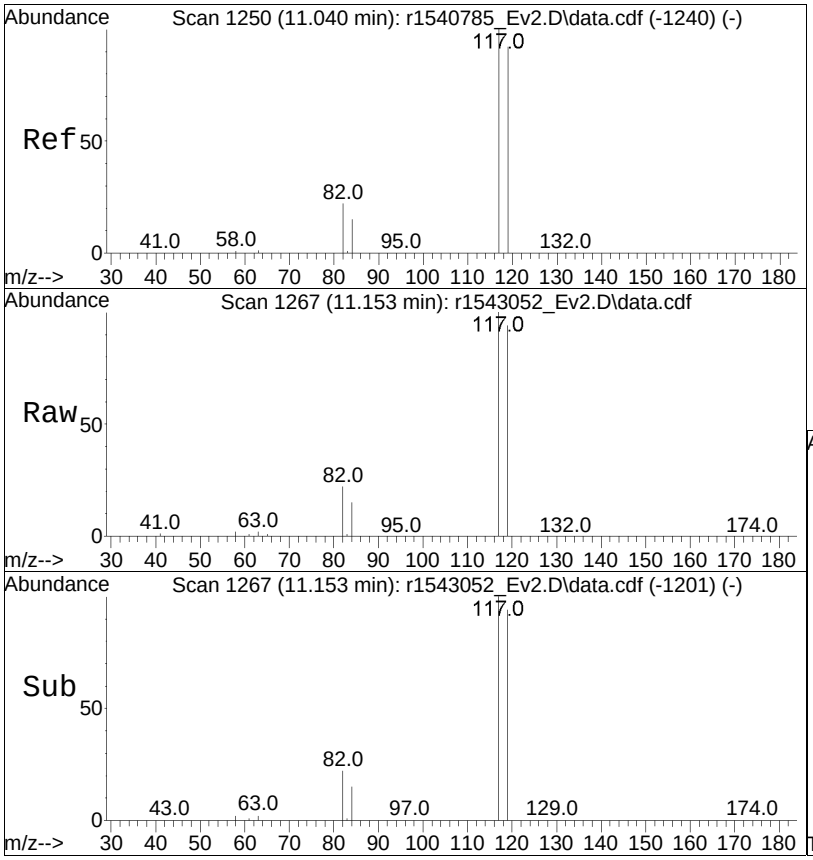


#36
1,1,1-trichloroethane
Concen: 5.07 ppbV
RT: 10.458 min Scan# 1169
Delta R.T. 0.117 min
Lab File: r1543052_Ev2.D
Acq: 26 Feb 2024 1:17 PM

Tgt Ion: 97 Resp: 73105

Ion	Ratio	Lower	Upper
97	100		
61	50.2	41.1	61.7
119	12.6	12.4	18.6

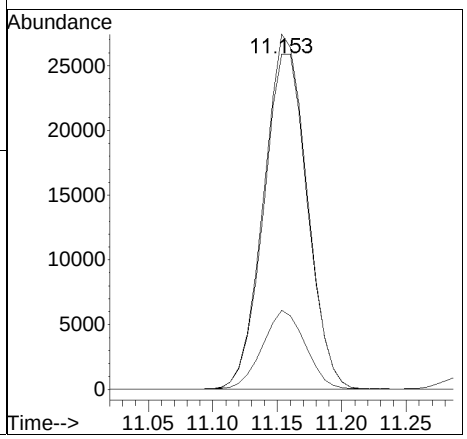


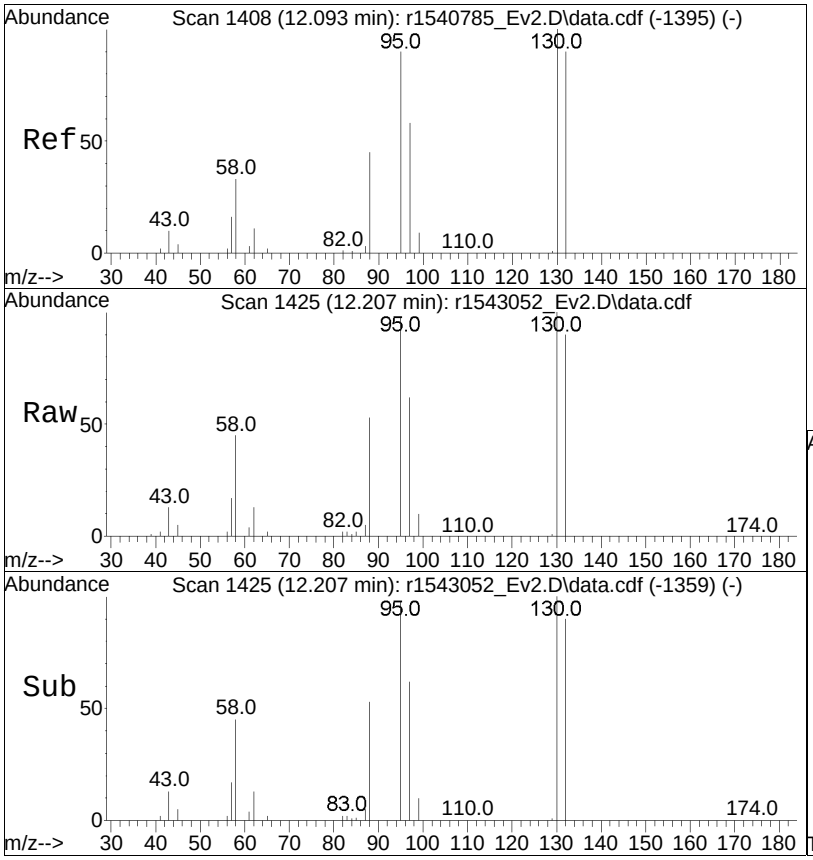


#38
carbon tetrachloride
Concen: 4.69 ppbV
RT: 11.153 min Scan# 1267
Delta R.T. 0.113 min
Lab File: r1543052_Ev2.D
Acq: 26 Feb 2024 1:17 PM

Tgt Ion:117 Resp: 63818

Ion	Ratio	Lower	Upper
117	100		
119	94.4	73.8	110.6
82	22.3	17.8	26.8

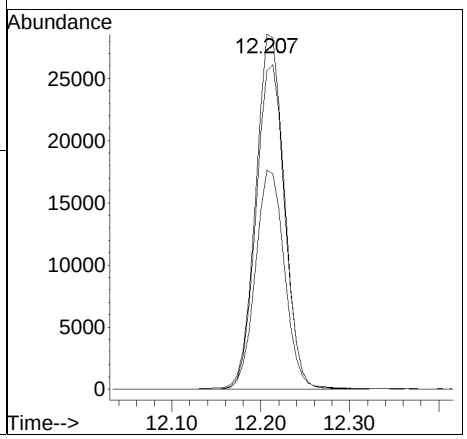


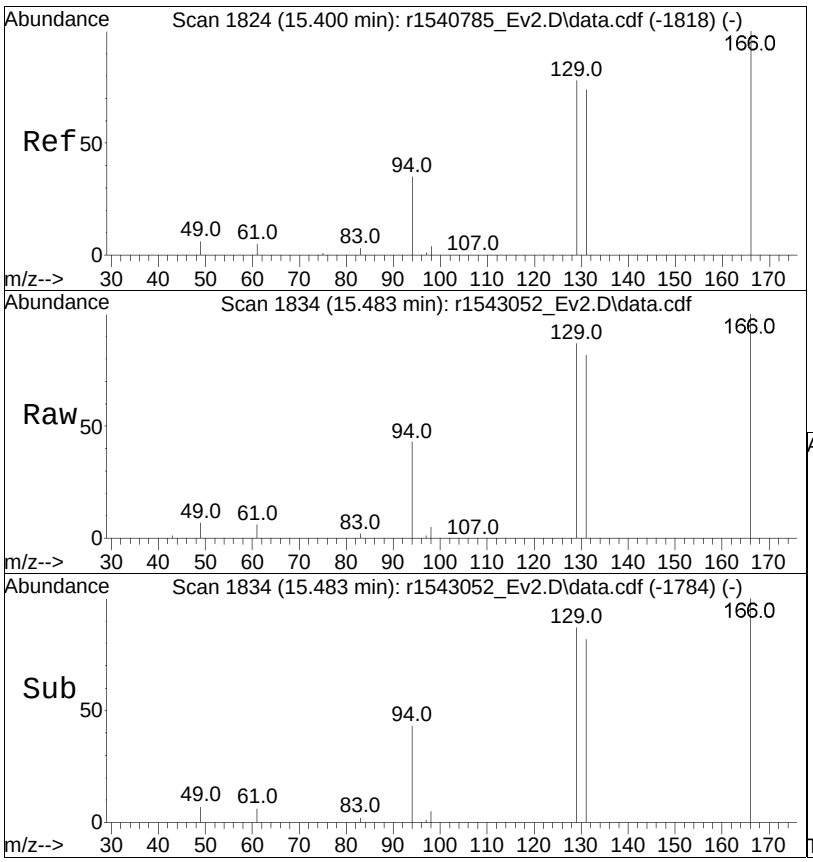


#44
trichloroethene
Concen: 4.36 ppbV
RT: 12.207 min Scan# 1425
Delta R.T. 0.113 min
Lab File: r1543052_Ev2.D
Acq: 26 Feb 2024 1:17 PM

Tgt Ion:130 Resp: 63980

Ion	Ratio	Lower	Upper
130	100		
132	89.7	71.6	107.4
97	61.7	46.6	69.8

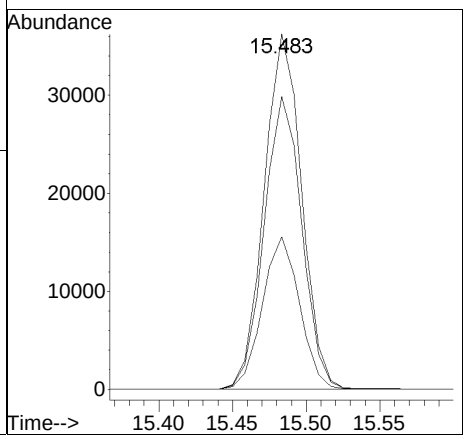




#57
tetrachloroethene
Concen: 3.69 ppbV
RT: 15.483 min Scan# 1834
Delta R.T. 0.083 min
Lab File: r1543052_Ev2.D
Acq: 26 Feb 2024 1:17 PM

Tgt Ion:166 Resp: 64279

Ion	Ratio	Lower	Upper
166	100		
131	82.5	58.9	88.3
94	43.0	27.8	41.6#



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-3,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

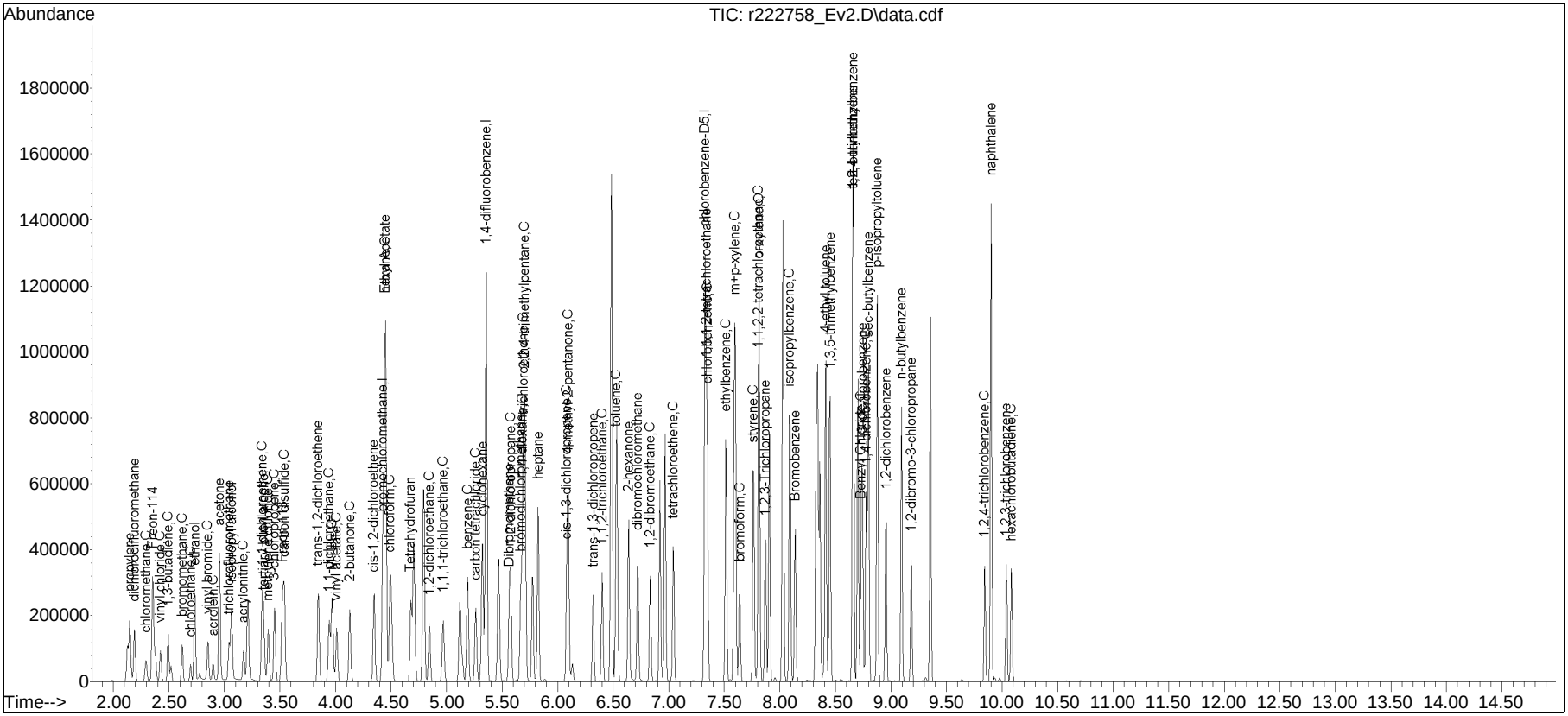
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.423	49	255414	10.000	ppbV	-0.02
Standard Area = 255414			Recovery = 100.00%			
33) 1,4-difluorobenzene	5.357	114	870699	10.000	ppbV	-0.01
Standard Area = 870699			Recovery = 100.00%			
51) chlorobenzene-D5	7.327	54	103994	10.000	ppbV	-0.01
Standard Area = 103994			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
10) ethanol	2.735	31	132467	32.020	ppbV	96

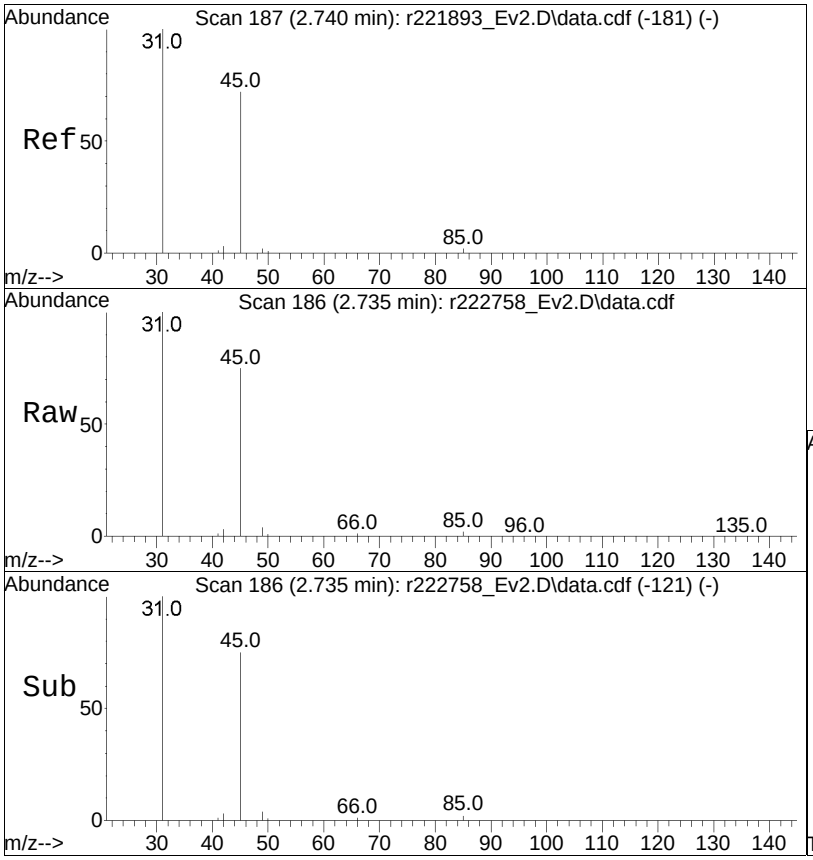
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed1SIM\r222758_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222758_Ev2.D
Acq On : 1 Mar 2024 1:53 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-3,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 01 14:43:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

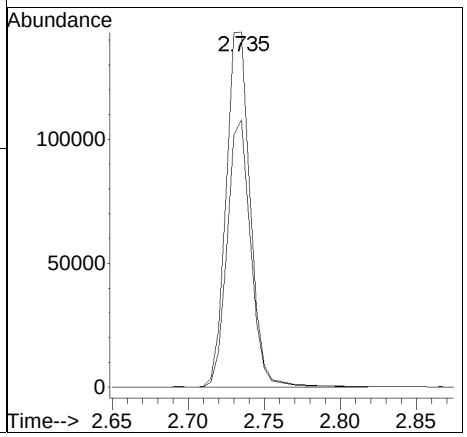




#10
ethanol
Concen: 32.02 ppbV
RT: 2.735 min Scan# 186
Delta R.T. -0.005 min
Lab File: r222758_Ev2.D
Acq: 1 Mar 2024 1:53 PM

Tgt Ion: 31 Resp: 132467

Ion	Ratio	Lower	Upper
31	100		
45	75.3	57.8	86.8



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543060_Ev2.D
Acq On : 26 Feb 2024 11:45 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-5,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:41 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D
Sub List : 7-NY-SIM - .

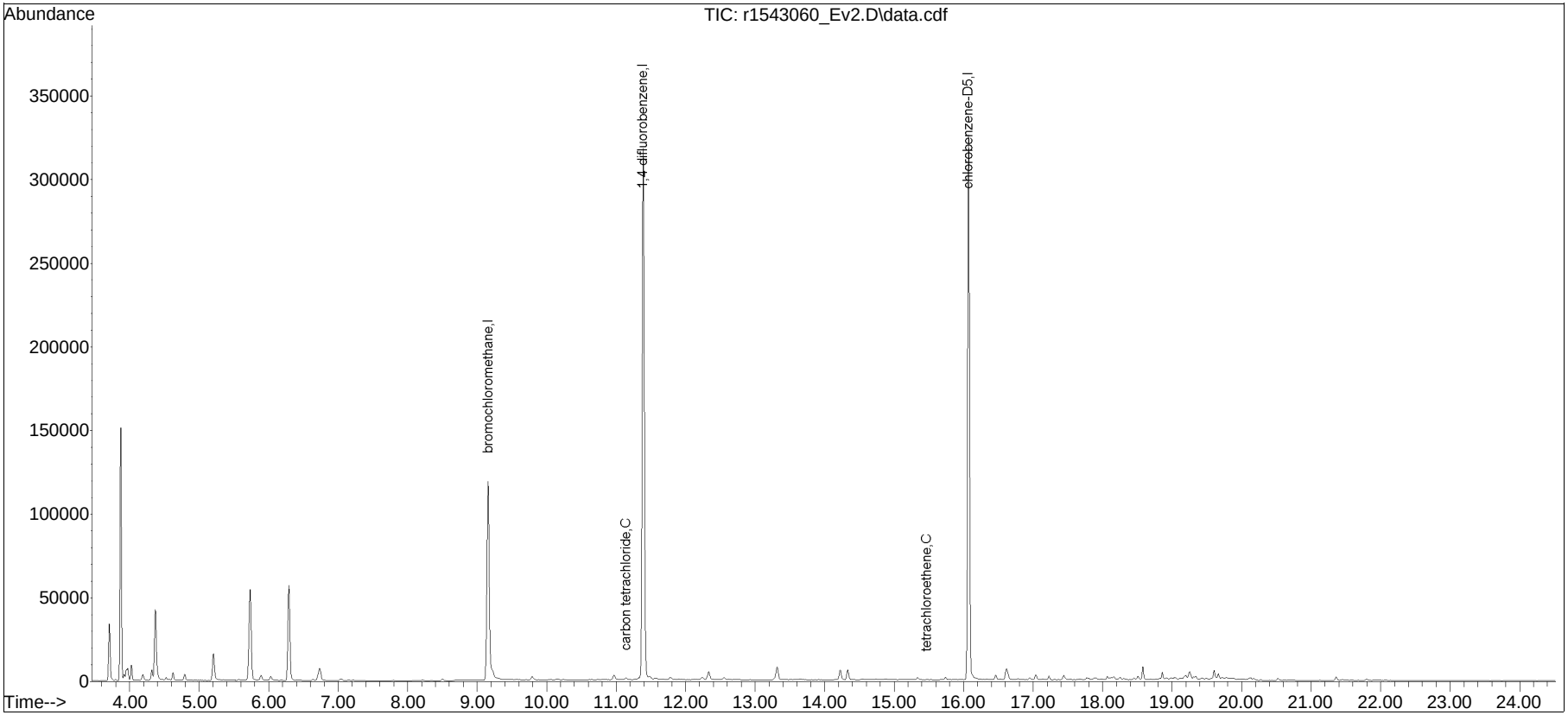
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.158	49	136175	10.000	ppbV		0.09
Standard Area = 147461			Recovery =		92.35%		
33) 1,4-difluorobenzene	11.387	114	379474	10.000	ppbV	#	0.10
Standard Area = 439351			Recovery =		86.37%		
51) chlorobenzene-D5	16.067	54	72129	10.000	ppbV		0.07
Standard Area = 77617			Recovery =		92.93%		
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	11.140	117	928	0.079	ppbV	#	96
44) trichloroethene	0.000		0	N.D.			
57) tetrachloroethene	15.467	166	194	0.012	ppbV	#	70

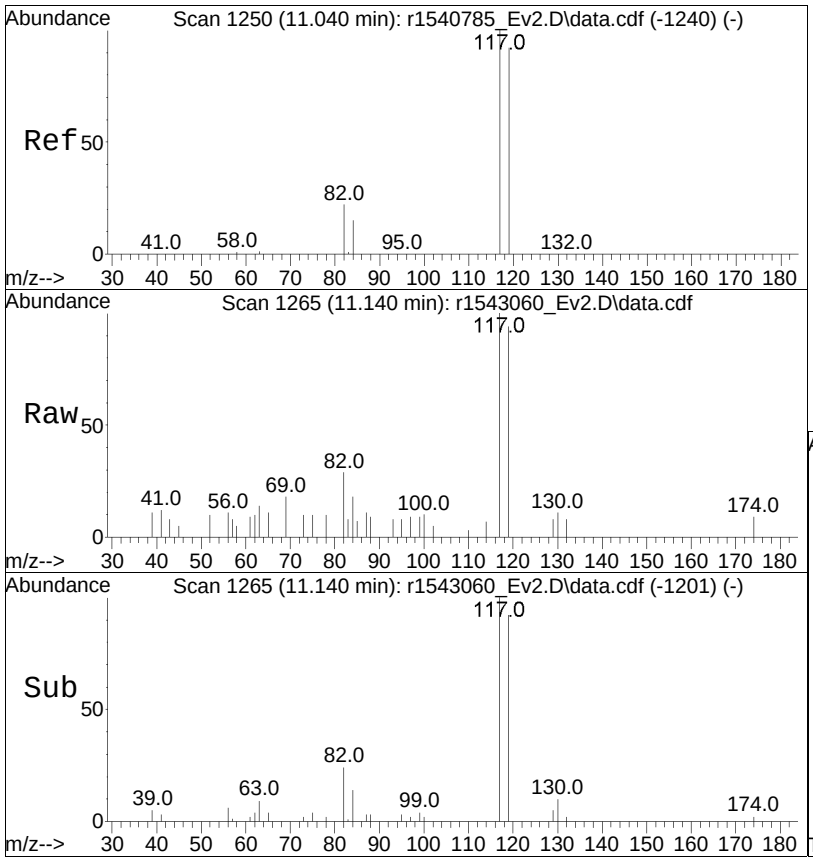
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab15\2024\02\0226SIM\r1543052_Ev2.D

Data Path : O:\Forensics\Data\Airlab15\2024\02\0226SIM\
Data File : r1543060_Ev2.D
Acq On : 26 Feb 2024 11:45 PM
Operator : AIRLAB15:KJD
Sample : WG1889453-5,3,250,250
Misc : WG1889453,ICAL20577
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 27 07:29:41 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\02\0226SIM\TSIM15_231120.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Nov 21 16:16:02 2023
Response via : Initial Calibration

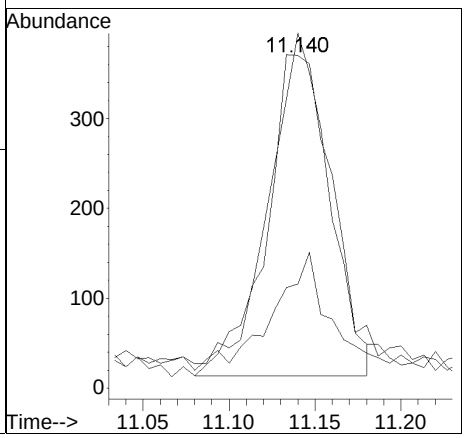


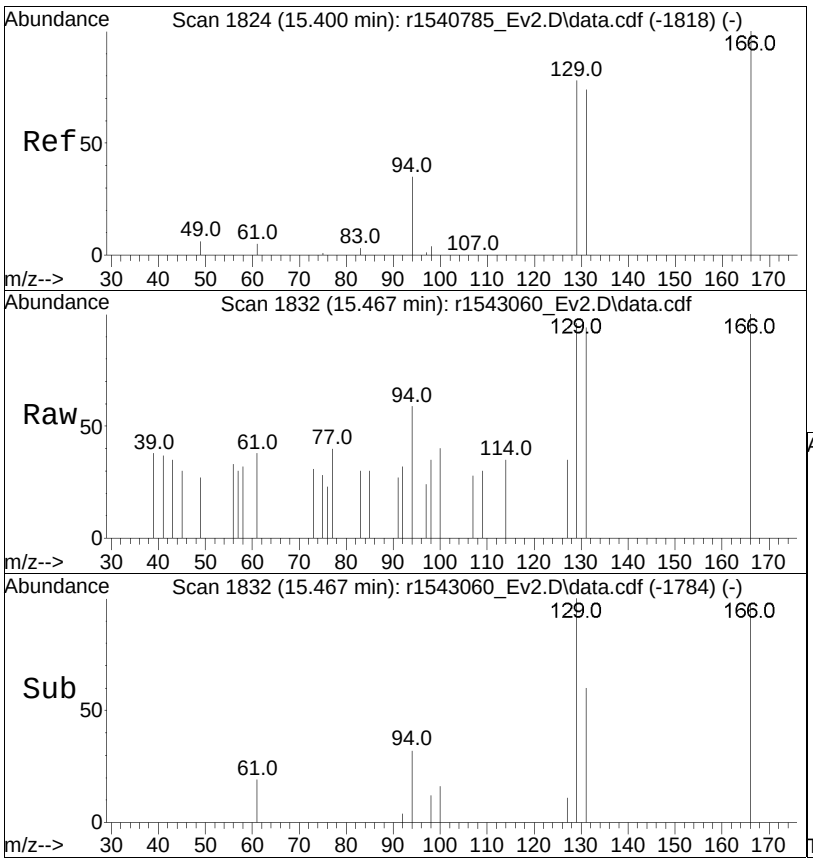


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 11.140 min Scan# 1265
Delta R.T. 0.100 min
Lab File: r1543060_Ev2.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion:117 Resp: 928

Ion	Ratio	Lower	Upper
117	100		
119	93.7	73.8	110.6
82	29.4	17.8	26.8#

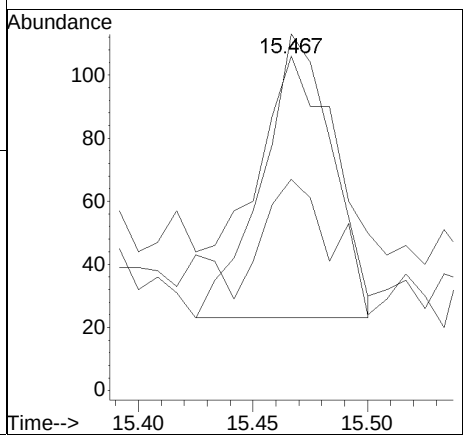




#57
tetrachloroethene
Concen: 0.01 ppbV
RT: 15.467 min Scan# 1832
Delta R.T. 0.067 min
Lab File: r1543060_Ev2.D
Acq: 26 Feb 2024 11:45 PM

Tgt Ion:166 Resp: 194

Ion	Ratio	Lower	Upper
166	100		
131	93.8	58.9	88.3#
94	59.3	27.8	41.6#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab15	QMethod	: TSIM15_231120.M
Data File	: r1543060_Ev2.D	Operator	: AIRLAB15:KJD
Date Inj'd	: 2/26/2020 0:1: 5	Instrument	:
Sample	: WG1889453-5,3,250,250	Quant Date	: 2/27/2024 7:29 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222765_Ev2.D
Acq On : 1 Mar 2024 7:55 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-5,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:29:00 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0301SIM\r222758_Ev2.D
Sub List : ETOH_Only - Sub List Unknown

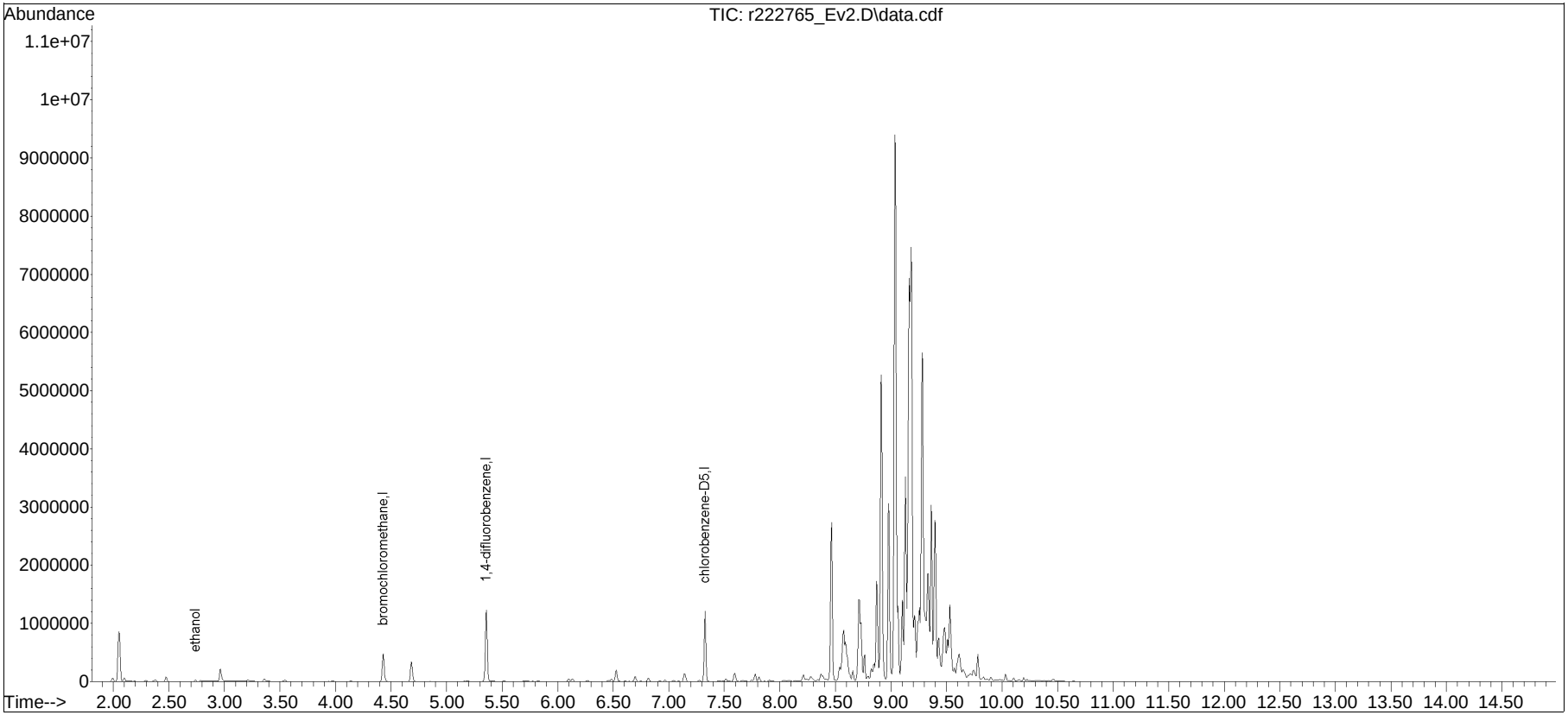
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.430	49	264317	10.000	ppbV	-0.01
Standard Area = 255414			Recovery = 103.49%			
33) 1,4-difluorobenzene	5.357	114	903102	10.000	ppbV	-0.01
Standard Area = 870699			Recovery = 103.72%			
51) chlorobenzene-D5	7.327	54	95800	10.000	ppbV	-0.01
Standard Area = 103994			Recovery = 92.12%			
System Monitoring Compounds						
Target Compounds						Qvalue
10) ethanol	2.740	31	18913	4.418	ppbV	99

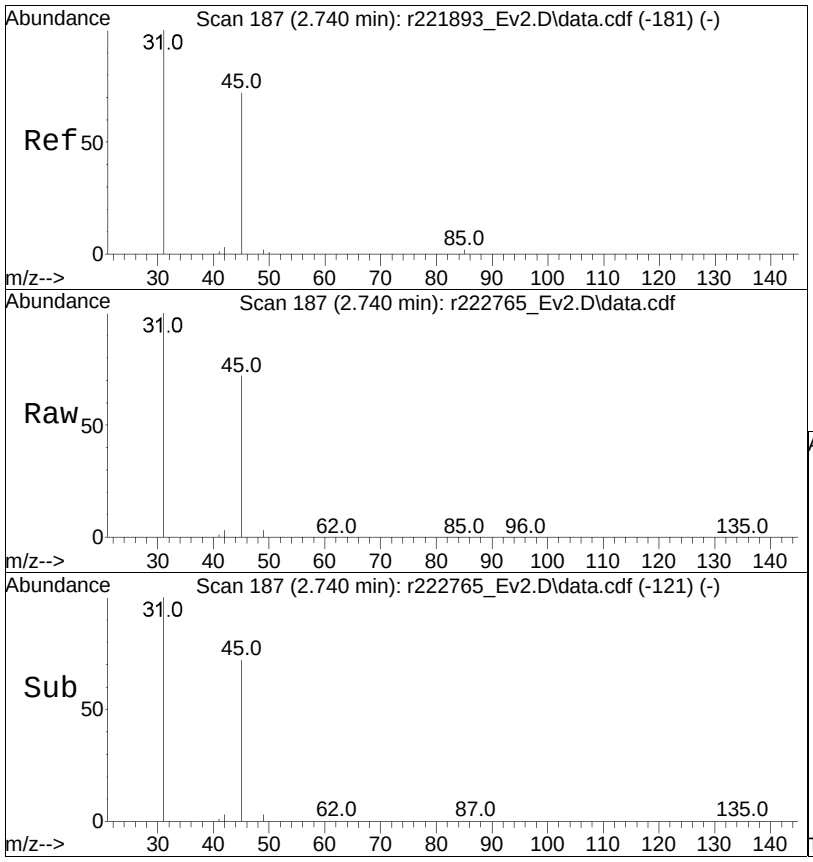
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_Only - Sub List Unknown024\03\0301SIM\r222758_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0301SIM\
Data File : r222765_Ev2.D
Acq On : 1 Mar 2024 7:55 PM
Operator : AIRLAB22:BJB
Sample : WG1891969-5,3,250,250
Misc : WG1891969,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 02 08:29:00 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0301SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

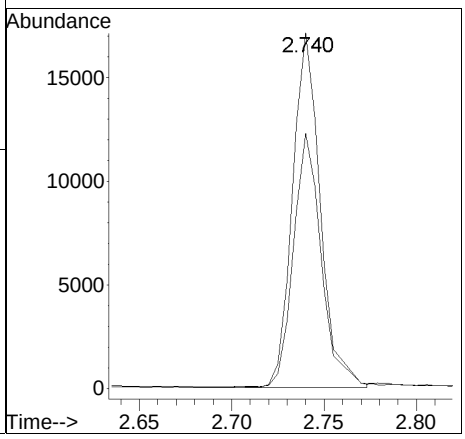




#10
ethanol
Concen: 4.42 ppbV
RT: 2.740 min Scan# 187
Delta R.T. 0.000 min
Lab File: r222765_Ev2.D
Acq: 1 Mar 2024 7:55 PM

Tgt Ion: 31 Resp: 18913

Ion	Ratio	Lower	Upper
31	100		
45	71.8	57.8	86.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab22	QMethod	: TSIM22_231129.M
Data File	: r222765_Ev2.D	Operator	: AIRLAB22:BJB
Date Inj'd	: 3/1/2020 0:7: 5	Instrument	:
Sample	: WG1891969-5,3,250,250	Quant Date	: 3/2/2024 8:29 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)

Mar 05 2024, 10:19 am

Work Group: WG1889453 for Department: 3 GC/MS

Created: 26-FEB-24 Due: Operator: JFI

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2408465-15	BC-2146-IA01-0224	S	TO15-SIM	AIR	DONE	U	0315	0227	S0	Can-6
L2408465-16	BC-2146-IA03-0224	S	TO15-SIM	AIR	DONE	U	0315	0227	S0	Can-6
L2408465-17	BC-OA01-0224	S	TO15-SIM	AIR	DONE	U	0315	0227	S0	Can-6
L2409206-02	IA-01_20240220	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-04	IA-02_20240220	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-06	IA-03_20240220	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-08	IA-04_20240220	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-10	IA-05_20240220	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-12	IA-06_20240220	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-14	IA-07_20240220	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409206-15	AA-01_20240220	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
WG1889453-1	MS BFB Tune Standard	S	TO15-SIM	AIR	DONE	U				
WG1889453-2	Continuing Calibrati	S	TO15-SIM	AIR	DONE	U				
WG1889453-3	Laboratory Control S	S	TO15-SIM	AIR	DONE	U				
WG1889453-4	Laboratory Method Bl	S	TO15-SIM	AIR	DONE	U				
WG1889453-5	Duplicate Sample	S	TO15-SIM	AIR	DONE	U				

Comments:

WG1889453-5 L2409206-08

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 05 2024, 10:19 am

Work Group: WG1891969 for Department: 3 GC/MS

Created: 04-MAR-24 Due: Operator: BJB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2400005-119	AIR DUMMY 119	S	TO15-SIM	AIR	DONE	U	0331	0315	NC	Can-2.7
L2409206-01	V-01_20240220	S	TO15-SIM	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-2.7
L2409206-03	V-02_20240220	S	TO15-SIM	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-2.7
L2409206-05	V-03_20240220	S	TO15-SIM	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-2.7
L2409206-09	V-05_20240220	S	TO15-SIM	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-2.7
L2409206-11	V-06_20240220	S	TO15-SIM	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-2.7
L2409206-13	V-07_20240220	S	TO15-SIM	SOIL_VAPOR	DONE	U	0321	0227	S0	Can-2.7
L2409604-03	SV-4040-12	S	TO15-SIM	SOIL_VAPOR	DONE	U	0323	0229	S0	Can-2.7
WG1891969-1	MS BFB Tune Standard	S	TO15-SIM	AIR	DONE	U				
WG1891969-1	MS BFB Tune Standard	S	TO15-SIM	SOIL_VAPOR	DONE	U				
WG1891969-2	Continuing Calibrati	S	TO15-SIM	SOIL_VAPOR	DONE	U				
WG1891969-2	Continuing Calibrati	S	TO15-SIM	AIR	DONE	U				
WG1891969-3	Laboratory Control S	S	TO15-SIM	SOIL_VAPOR	DONE	U				
WG1891969-3	Laboratory Control S	S	TO15-SIM	AIR	DONE	U				
WG1891969-4	Laboratory Method Bl	S	TO15-SIM	SOIL_VAPOR	DONE	U				
WG1891969-4	Laboratory Method Bl	S	TO15-SIM	AIR	DONE	U				
WG1891969-5	Duplicate Sample	S	TO15-SIM	AIR	DONE	U				
WG1891969-5	Duplicate Sample	S	TO15-SIM	SOIL_VAPOR	DONE	U				

Comments:

L2400005-119	use for L2409206-07
WG1891969-5	L2400005-119

Alpha Analytical Air Lab
Instrument Run Log

ID:	Airlab15	Internal Standard/Surrogate IDs:	SS20-028 / SS21-026
Date:	11/20/23	Internal Standard/Surrogate Volume:	100 ml
Initials:	BJB	Sequence File Name:	231120.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	k Check Pa
1	BA15080103	TO15_SFS.qgm	R1540777.qgd	250 ML	BLANK		NA
1	TA15080101	TO15_SFS.qgm	R1540778.qgd	250 ML	TUNE		NA
9	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1540779.qgd	SS23-022D 50ML	SIM ONLY	DEFAULT	NA
9	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1540780.qgd	SS23-022D 100ML	SIM ONLY	DEFAULT	NA
9	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1540781.qgd	SS23-022D 250ML	SIM ONLY	DEFAULT	NA
10	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1540782.qgd	SS23-022C 50ML		DEFAULT	NA
10	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1540783.qgd	SS23-022C 125ML		DEFAULT	NA
10	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1540784.qgd	SS23-022C 250ML		DEFAULT	NA
11	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1540785.qgd	SS23-022H 125ML		DEFAULT	NA
11	ITO15-SIMSTD010	TO15_SFS.qgm	R1540786.qgd	SS23-022H 250ML		DEFAULT	NA
12	ITO15-SIMSTD020	TO15_SFS.qgm	R1540787.qgd	SS23-022A 50ML		DEFAULT	NA
12	ITO15-SIMSTD050	TO15_SFS.qgm	R1540788.qgd	SS23-022A 125ML		DEFAULT	NA
12	ITO15-LLSTD100	TO15_SFS.qgm	R1540789.qgd	SS23-022A 250ML	LL ONLY	DEFAULT	NA
1	BA15080101	TO15_SFS.qgm	R1540790.qgd	250 ML			NA
1	BA150801402	TO15_SFS.qgm	R1540791.qgd	250 ML			NA
2	CTO15-LLSTD10	TO15_SFS.qgm	R1540792.qgd	SS23-020E 250ML	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1540793.qgd	SS23-020E 125ML	SIM ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1540794.qgd	SS23-020E 125ML	SIM ICV	DEF ICV AP2	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

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AIRLAB22

Internal Standard/Surrogate IDs: SS22-029 / SS21-026

Date: 11/29/2023

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: JMB

Sequence File Name: 220916.S

Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL	Comment (s)	Product/ sublist	Check Pass
1	TA22112201	TO15_SFS.qgm	R221886.qgd	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R221887.qgd	50 mL SS23-022D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R221888.qgd	125 mL SS23-022D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R221889.qgd	250 mL SS23-022D	SIM ONLY	DEF	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R221890.qgd	50 mL SS23-022C		DEF	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R221891.qgd	125 mL SS23-022C		DEF	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R221892.qgd	250 mL SS23-022C		DEF	NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R221893.qgd	125 mL SS23-022B		DEF	NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R221894.qgd	250 mL SS23-022B		DEF	NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R221895.qgd	50 mL SS23-022A		DEF	NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R221896.qgd	125 mLSS23-022A		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R221897.qgd	250 mL SS23-022A	LL ONLY	DEF	NA
1	BA22112201	TO15_SFS.qgm	R221898.qgd	250 mL	LL BLANK		NA
1	BA22112202	TO15_SFS.qgm	R221899.qgd	250 mL	SIM BLANK/ TUNE		NA
2	CTO15-LLSTD10.0	TO15_SFS.qgm	R221900.qgd	250 mL SS223-027H	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R221901.qgd	125 mL SS223-027H	SIM ICV	DEF ICV AP2	NA

Alpha Analytical Air Lab
Instrument Run Log

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

ID:	Airlab15	Internal Standard/Surrogate IDs:	SS20-028 / SS21-026
Date:	02/26/24	Internal Standard/Surrogate Volume:	100 ml
Initials:	JFI	Sequence File Name:	240226.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	ak Ch eck Pa
1	TA15022601	TO15_SFS.qgm	R1543049.qgd	250mL	TUNE		NA
2	CA15022601	TO15_SFS.qgm	R1543050.qgd	SS24-030H 250ML	LL CC		NA
3	CTO15-LLSTD10	TO15_SFS.qgm	R1543051.qgd	SS24-002G 250ML	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1543052.qgd	SS24-002G 125ML	SIM LCS		NA
1	BA15022601	TO15_SFS.qgm	R1543053.qgd	250mL	LL BLANK		NA
1	BA15022601	TO15_SFS.qgm	R1543054.qgd	250mL	SIM BLANK		NA
1	L2409206-15,3,250,250	TO15_SFS.qgm	R1543055.qgd	WG1889452,ICAL20574		NY-7SIM	Y
2	L2409206-02,3,250,250	TO15_SFS.qgm	R1543056.qgd	WG1889452,ICAL20574		NY-7SIM	Y
3	L2409206-04,3,250,250	TO15_SFS.qgm	R1543057.qgd	WG1889452,ICAL20574		NY-7SIM	Y
4	L2409206-06,3,250,250	TO15_SFS.qgm	R1543058.qgd	WG1889452,ICAL20574		NY-7SIM	Y
5	L2409206-08,3,250,250	TO15_SFS.qgm	R1543059.qgd	WG1889452,ICAL20574		NY-7SIM	Y
5	L2409206-08DUP,3,250,250	TO15_SFS.qgm	R1543060.qgd	WG1889452,ICAL20574	DUP LL/SIM	NY-7SIM	Y
6	L2409206-10,3,250,250	TO15_SFS.qgm	R1543061.qgd	WG1889452,ICAL20574		NY-7SIM	Y
7	L2409206-12,3,250,250	TO15_SFS.qgm	R1543062.qgd	WG1889452,ICAL20574		NY-7SIM	Y
8	L2409206-14,3,250,250	TO15_SFS.qgm	R1543063.qgd	WG1889452,ICAL20574		NY-7SIM	Y
9	L2408465-15,3,250,250	TO15_SFS.qgm	R1543064.qgd	WG1889453,ICAL20577		BTEX+NAPH BY SIM	Y
10	L2408465-16,3,250,250	TO15_SFS.qgm	R1543065.qgd	WG1889453,ICAL20577		BTEX+NAPH BY SIM	Y
11	L2408465-17,3,250,250	TO15_SFS.qgm	R1543066.qgd	WG1889453,ICAL20577		BTEX+NAPH BY SIM	Y
12	L2407678-06D,3,106.19,250	TO15_SFS.qgm	R1543067.qgd	WG1889452,ICAL20574		NY	Y
13	L2407678-07D,3,113.71,250	TO15_SFS.qgm	R1543068.qgd	WG1889452,ICAL20574		NY	Y
14	L2407678-08D,3,24.24,250	TO15_SFS.qgm	R1543069.qgd	WG1889452,ICAL20574	T	NY	Y

15	L2407678-09D,3,26.78,250	TO15_SFS.qgm	R1543070.qgd	WG1889452,ICAL20574	T	NY	Y
16	L2407657-01D,3,70,250	TO15_SFS.qgm	R1543071.qgd	WG1889452,ICAL20574		NY	Y
1	L2407762-01D,3,107.74,250	TO15_SFS.qgm	R1543072.qgd	WG1889452,ICAL20574	Overcal	212environ	y
2	L2407762-02D,3,0.26,250	TO15_SFS.qgm	R1543073.qgd	WG1889452,ICAL20574	IS FAILURE	212environ	Y
4	l2408822-05D2,3,0.81,250	TO15_SFS.qgm	R1543074.qgd	WGXXXXX,ICAL20574	IS FAILURE	C12DCE	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

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AIRLAB22

Internal Standard/Surrogate IDs: SS22-029 / SS21-026

Date: 03/01/2024

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: JFI

Sequence File Name: 220916.S

Position #	Sample ID	Acquisition Method	Data File ID	Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	CK Pass ? Y/N
1	TA22030101	TO15_SFS.qgm	R222755.qgd	250 mL	TUNE		NA
2	CA22030101	TO15_SFS.qgm	R222756.qgd	250 mL SS223-027H	LL CC		NA
3	CTO15-LLSTD10.0	TO15_SFS.qgm	R222757.qgd	250 mL SS223-027H	LL LCS	ETOH FAILS HIGH REPORT HITS BY SIM	NA
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R222758.qgd	125 mL SS223-027H	SIM LCS		NA
1	BA22030101	TO15_SFS.qgm	R222759.qgd	250 mL	LL LCS		NA
1	BA22030102	TO15_SFS.qgm	R222760.qgd	250 mL	SIM LCS		NA
1	L2409206-01,3,250,250	TO15_SFS.qgm	R222761.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
2	L2409206-03,3,250,250	TO15_SFS.qgm	R222762.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
3	L2409206-05,3,250,250	TO15_SFS.qgm	R222763.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
4	L2409206-07,3,250,250	TO15_SFS.qgm	R222764.qgd	WG1891258,ICAL20613		NY	Y
4	L2409206-07DUP,3,250,250	TO15_SFS.qgm	R222765.qgd	WG1891258,ICAL20613	LL DUP	NY	Y
5	L2409206-09,3,250,250	TO15_SFS.qgm	R222766.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
6	L2409206-11,3,250,250	TO15_SFS.qgm	R222767.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
7	L2409206-13,3,250,250	TO15_SFS.qgm	R222768.qgd	WG1891258,ICAL20613	ETOH HIT	NY	Y
8	L2409004-01,3,250,250	TO15_SFS.qgm	R222769.qgd	WG1891258,ICAL20613		PA	Y
9	L2409604-02D,3,200,250	TO15_SFS.qgm	R222770.qgd	WG1891258,ICAL20613	ETOH OVERCAL	NY	Y
10	L2409604-03,3,250,250	TO15_SFS.qgm	R222771.qgd	WG1891258,ICAL20613	ETOH OVERCAL BY SIM	NY	Y
11	L2409604-04D,3,200,250	TO15_SFS.qgm	R222772.qgd	WG1891258,ICAL20613	ETOH OVERCAL	NY	Y
12	L2409500-01D,3,4.4,250	TO15_SFS.qgm	R222773.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
13	L2409500-02D,3,10.03,250	TO15_SFS.qgm	R222774.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
14	L2409500-03D,3,1.7,250	TO15_SFS.qgm	R222775.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
15	L2409500-04D,3,125,250	TO15_SFS.qgm	R222776.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
16	L2409500-05D,3,2.8,250	TO15_SFS.qgm	R222777.qgd	WG1891258,ICAL20613	IS FAIL	NY	Y

Alpha Analytical Air Lab
Instrument Run Log

1	L2409500-06,3,250,250	TO15_SFS.qgm	R222778.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
2	L2409500-07D,3,34.05,250	TO15_SFS.qgm	R222779.qgd	WG1891258,ICAL20613	T/TRANSFER	NY	Y
10	L2409604-03D,3,50,250	TO15_SFS.qgm	R222780.qgd	WG1891258,ICAL20613		ETOH BY SIM	Y
16	L2409500-05D,3,0.47,250	TO15_SFS.qgm	R222781.qgd	WG1891258,ICAL20613	TRANSFER/224 tmp overcal	NY	Y

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 analyzed (mL), nominal volume

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

ATTACHMENT D

L.A.B. Validation Corp. 14 West Point Drive, East Northport, N.Y. 11731

DATA USABILITY SUMMARY REPORT (DUSR)
DATA VALIDATION SUMMARY
ORGANIC ANALYSIS

EPA Compendium Method TO-15
VOLATILES BY GC/MS
For Soil Vapor/Ambient Air Samples
Collected February 20, 2024
From Grow NYC
Collected by AKRF, Inc.
Project No. – 210121

SAMPLE DELIVERY GROUP NUMBER:
L2409206
Alpha Analytical (ELAP #11148)

SUBMITTED TO:

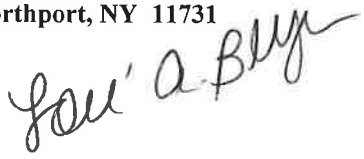
Mr. Stephen Grens
AKRF, Inc.
440 Park Avenue South, 7th Floor
New York, NY 10016

cc: Mr. Dustin Kapson/AKRF, Inc.

March 16, 2024

PREPARED BY:

Lori A. Beyer/President
L.A.B. Validation Corp.
14 West Point Drive
East Northport, NY 11731



Phone (516) 523-7891 email LABValidation@aol.com

Grow NYC
February 2024
Data Validation Report: Volatile Organics by EPA Method TO15

Table of Contents:

Introduction:
A validation was performed on soil vapor/ambient air samples for Volatile Organic analysis collected by AKRF, Inc. and submitted to Alpha Analytical for subsequent analysis under chain of custody documentation. This report contains the laboratory and validation results for the field samples itemized below. The samples were collected on February 20, 2024.

The samples were analyzed by Alpha Analytical utilizing EPA Method TO-15 and in accordance with NYSDEC Analytical Services Protocol (2005) and submitted under NYSDEC ASP Category B equivalent deliverable requirements for the associated analytical methodology employed. The analytical testing consisted of the TO-15 Compound List. Ambient Air samples were also analyzed by Selective Ion Monitoring (SIM) techniques for selected chlorinated compounds to achieve NYSDOH Guidance Value reporting levels. The data was evaluated in accordance with the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (Publication 9240.1-05), EPA SOP #HW31 (Revision 6-Updated September 2016) and in conjunction with the analytical methodology for which the samples were analyzed, where applicable and relevant.

The data validation report pertains to the following field air samples:

Sample Identification	Laboratory Identification	Sample Matrix (Air Type)	Collection Date
V-01_20240220	L2409206-01	Soil Vapor	02/20/2024
IA-01_20240220	L2409206-02	Ambient Air	02/20/2024
V-02_20240220	L2409206-03	Soil Vapor	02/20/2024
IA-02_20240220	L2409206-04	Ambient Air	02/20/2024
V-03_20240220	L2409206-05	Soil Vapor	02/20/2024
IA-03_20240220	L2409206-06	Ambient Air	02/20/2024
V-04_20240220	L2409206-07	Soil Vapor	02/20/2024
IA-04_20240220	L2409206-08	Ambient Air	02/20/2024
V-05_20240220	L2409206-09	Soil Vapor	02/20/2024
IA-05_20240220	L2409206-10	Ambient Air	02/20/2024
V-06_20240220	L2409206-11	Soil Vapor	02/20/2024
IA-06_20240220	L2409206-12	Ambient Air	02/20/2024
V-07_20240220	L2409206-13	Soil Vapor	02/20/2024
IA-07_20240220	L2409206-14	Ambient Air	02/20/2024
AA-01_20240220	L2409206-15	Ambient Air	02/20/2024

Data Qualifier Definitions:

The following definitions provide brief explanations of the qualifiers assigned to results in the data review process.

U - The analyte was analyzed for but was not detected above the reported sample quantitation limit.

J - The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J+ - The result is an estimated quantity, but the result may be biased high. Equis qualified, JK.

J- - The result is an estimated quantity, but the result may be biased low. Equis qualified, JL.

UJ - The analyte was analyzed for but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

R - The data is unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

D - Analyte concentration was obtained from diluted analysis.

Sample Receipt:
The Chain of Custody documents indicates that the air samples were received following completion of the sampling event via laboratory courier on February 20, 2024. Sample login notes and the chain of custody's indicate that at the Validated Time of Sample Receipt (VTSR) at the laboratory no discrepancies were notated and therefore the integrity of the summa canister samples is assumed to be good.

Summa Canisters were leak tested prior to collection of each sample. The initial pressure gauge is recorded on the chain of custody documents and is required to be approximately 30 psi with zero air. Acceptable canister pressure was observed for these samples as documented on the chain of custody and canister and flow controller documentation provided in the lab report. Flow controllers pass the leak check requirements.

The data summary Form I's included in Appendix C includes all and any usable (qualified) and unusable (rejected) results for the samples identified above and summarize the detailed narrative section of the report. Data validation qualifications have been reported on the Form I's for ease of review and verification.

NOTE:
L.A.B. Validation Corp. believes it is appropriate to note that the data validation criteria utilized for data evaluation is different than the method requirements utilized by the laboratory. Qualified data does not necessarily mean that the laboratory was non-compliant in the analysis that was performed.

1.0 Volatile Organics by EPA Compendium Method TO-15
The following method criteria were reviewed: holding times, surrogate standards, LCS, Blanks, Laboratory Duplicate, Tunes, Calibrations, Internal Standards, Target Component Identification and Quantitation, Reported Quantitation Limits and Overall System Performance. The volatile results are valid and useable as noted on the data summary Form I's in Appendix C and within the following text:

1.1 Holding Time
The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the technical holding time is exceeded, the data may not be considered valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimates, "J." The non-detects (sample quantitation limits) are required to be flagged as estimated, "J," or unusable, "R," if the holding times are grossly exceeded.

Samples were analyzed within the method and technical required holding times of thirty (30) days from sample collection for analysis. No qualifications were required based upon holding time criteria.

1.2 Surrogate Standards
All samples are spiked with surrogate compounds prior to sample analysis to evaluate overall laboratory performance and efficiency of the analytical technique. If the measure of surrogate concentrations is outside contract specifications, qualifications are required to be applied to associated samples and analytes.

Samples were not spiked with surrogate standards. Method TO15 does not mandate the addition of surrogate standards.

1.3 Matrix Spikes (MS)/ Matrix Spike Duplicates (MSD)/Laboratory Duplicate /Field Duplicate Analysis

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices.

Matrix Spike/Matrix Spike Duplicate/Laboratory Duplicate analysis was not performed on samples pertaining to this SDG. Field Duplicate analysis was not required. Laboratory Duplicates were performed on IA-04_20240220, and V-04_20240220. When performed, acceptable precision for air samples is 25%. Detected concentrations in both laboratory duplicates yielded acceptable.RPD. The following criteria are utilized for Field/Lab Duplicate analysis when performed:

Criteria	Detected Compounds	Non-Detected Compounds
The RPD is within the limits of 0 and 25%	No qualification	No qualification
The RPD >25%	J in the parent and duplicate samples	Not applicable
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample. However, the detected concentration was </=2x the reporting limit	No qualification	No qualification
The RPD could not be calculated since the compound was only detected in either the parent or duplicate sample However, the detected concentration was >2x the reporting limit.	J in the parent and duplicate sample	UJ in the parent of duplicate sample

No qualifiers are required.

1.4 Laboratory Control Sample

The LCS data for laboratory control samples (LCS) are generated to provide information on the accuracy of the analytical method and on the laboratory performance.

The following table summarizes the LCS criteria and the data qualification guidelines for all associated field samples.

LCS	NOT QUALIFIED	J	R
% Recovery:			
Detects	70-130%	<70%, >130%	
Non-Detects	>/=130%	50-69%	<50%
Absolute RT of LCS Compounds:			
LCS Compounds in samples RT: (min)	+/-0 .33		>/=0.33

Acceptable LCS was analyzed with each analytical batch. Recovery values for all spiked compounds was determined to be >70%-<130%.

1.5 Blank Contamination

Quality assurance (QA) blanks, i.e., method, trip and field blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field blanks measure cross-contamination of samples during field operations. Storage blanks measure cross-contamination during sample storage of the field samples and are not required for TO15 analysis. Canister blanks measure cross-contamination from the sampling media. The following table was utilized to qualify target analyte results due to method blank contamination. The largest value from all the associated blanks is required to be utilized. The largest value from all the associated blanks is required to be utilized:

Blank Type	Blank Result	Sample Result	Action for Samples
Method, Storage, field, Trip, Instrument	Detects	Not Detected	No qualification required
	<CRQL*	<CRQL*	Report CRQL value with a U
		>/= CRQL* and <2x the CRQL**	No qualification required
	>CRQL*	</= CRQL*	Report CRQL value with a U
		>/=CRQL* and </= blank concentration	Report blank value for sample concentration with a U
		>/= CRQL* and > blank concentration	No qualification required
	=CRQL*	</= CRQL*	Report CRQL value with a U
		>CRQL*	No qualification required
	Gross Contamination**	Detects	Report blank value for sample concentration with a U

*2x the CRQL for methylene chloride, 2-butanone, and acetone.
**4x the CRQL for methylene chloride, 2-butanone, and acetone
***Qualifications based on instrument blank results affect only the sample analyzed immediately after the sample that has target compounds that exceed the calibration range or non-target compounds that exceed the high calibration standard. The table below is utilized to qualify samples with target compound results also present in certification blanks:

Certification Contamination	Sample Result	Action for Sample
>/=detect limit	>5x certification contamination	No qualification required
>/=detect limit	<detect limit	Detection limit "U"
>/=detect limit	>/=detect limit and </= 5x certification contamination level	5x certification contamination "U"
<detect limit	</=detection limit and >/= detection limit	No qualification

Below is a summary of the compounds in the sample and the associated qualifications that have been applied:

A) Method Blank Contamination:
No target analytes were detected in the method blanks.

B) Field Blank Contamination:
Field Blank analysis was not required.

C) Trip Blank Contamination:
Trip Blank analysis was not required.

**Acetone and Methylene Chloride are common laboratory contaminants. The end user should proceed with caution when making decisions based on these detections since these are common solvents utilized in the organic extraction laboratory and could not be negated due to lack of presence in the corresponding blanks.*

1.6 GC/MS Instrument Performance Check

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The Tuning standard for volatile organics is Bromofluorobenzene (BFB).

Instrument performance was generated within acceptable limits and frequency (24 hours) for Bromofluorobenzene (BFB) for all analyses.

1.7 Initial and Continuing Calibrations

Satisfactory instrument calibration is established to ensure that the instrument can produce acceptable quantitative data. An initial calibration demonstrates that the instrument can give acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for all compounds must be >/= 0.05 in both initial and continuing calibrations. A value <0.05 indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J." All non-detects for that compound in the corresponding samples will be rejected, "R."

The following compounds can be >0.01 without qualification:
2-Butanone
Carbon Disulfide
Chloroethane
Chloromethane
1,2-Dibromoethane
1,2-Dichloropropane
1,4-Dioxane
1,2-Dibromo-3-chloropropane
Methylene Chloride

Response factors for the target analytes reported were found to be within acceptable limits (>/=0.05) [or >/=0.01 for the 9 compounds above] and remaining analytes, for the initial and continuing calibrations.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentrations. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be <30% and %D must be <30%. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J" and non-detects are flagged "UJ." If %RSD and %D grossly exceed QC criteria (>90%), non-detect data may be qualified, "R", unusable. Additionally, in cases where the %RSD is >30% and eliminating either the high or the low point of the curve does not restore the %RSD to less than or equal to 30% then positive results are qualified, "J".

In cases where removal of either the low or high point restores the linearity, then only low or high-level results will be qualified, "J" in the portion of the curve where non-linearity exists.

Initial Calibrations: The initial calibrations provided and the %RSD was within acceptable limits (30%) and (40%) for poor responders for all target compounds. Initial calibration verification standards met QC requirements except for Bromoform (34.9%). Non-detects in all samples have been qualified, "UJ."

Continuing Calibrations: The continuing calibrations provided and the %D was within acceptable limits (30%) and (40%) for poor responders for all reported compounds except for Ethanol (34.2%) in the CCV associated with V-01_20240220, V-02_20240220, V-03_20240220, V-05_20240220, V-06_20240220, and V-07_20240220. Detections for this analyte were quantitated via SIM. No qualifiers were applied.

1.8 Internal Standards

Internal Standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must not vary by more than a factor of 2 (-40% to +40%) from the associated continuing calibration standard. The retention time of the internal standard must not vary more than +/-20 seconds from the associated continuing calibration standard. If the area count is outside the (-40% to +40%) range of the associated standard, all positive results for compounds quantitated using that IS are qualified as estimated, "J", and all non-detects as "UJ", or "R" if there is a severe loss of sensitivity. If an internal standard retention time varies by more than 20 seconds, professional judgment will be used to determine either partial or total rejection of the data for that sample fraction.

Internal Standard area responses met QC requirements for all analysis as compared to the continuing calibration.

1.9 Target Compound List Identification

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within =/- 0.06RRT units of the standard compound and have an ion spectrum which has a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

GC/MS spectra met the qualitative criteria for identification. Retention times were within required specifications.

1.10 Compound Quantification and Reported Detection Limits

GC/MS quantitative analysis are acceptable. Correct internal standards and response factors and air volumes were used to calculate final concentrations.
Sample results have been presented in ug/m3 as well as ppbv on the laboratory reporting forms. Samples were analyzed undiluted at 250mls.

1.11 Overall System Performance

GC/MS analytical methodology was acceptable for this analysis. The data reported agrees with the raw data provided in the final report. The laboratory provided a complete data package and reported all data using acceptable protocols and laboratory qualifiers as defined in the report package.

Reviewer's Signature Joel A. Bly **Date** 03/16/2024

Appendix A
Chain of Custody Documents

AIR ANALYSIS

ALPHA ANALYTICAL — CHAIN OF CUSTODY

PAGE 1 OF 2

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

Date Rec'd in Lab: 2/21/24

ALPHA Job #: L2409206

Client Information

Client: AKRF
Address: 440 Park Ave South, fl 7 New York, NY
Phone: 212 696 0670
Fax:
Email: sgrens@akrf.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Grow NYC
Project Location: Grow NYC
Project #: 210121
Project Manager: Steve Grens
ALPHA Quote #:

Turn-Around Time

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

Report Information - Data Deliverables

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

Billing Information

☑ Same as Client info PO #: 210121

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐ CATEGORY B DELIVERABLES / CLOSE SDG

ANALYSIS

☐ TO-15 ☐ TO-15 SIM ☐ APH (Solvent Non-Petroleum HC) ☐ Fixed Gases ☐ Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	Sample Comments (i.e. PID)
09206 .01	V-01_20240220	2/20/24	0745	1708	-30.25	-7.88	SV	MF	6 L	806	02089	
.02	IA-01_20240220		0757	1354	-30.93	-8.97	AA			3622	0201	
.03	V-02_20240220		0959	1715	-30.74	-7.27	SV			3627	0162	
.04	IA-02_20240220		0802	1400	-30.88	-8.54	AA			3087	01811	
.05	V-03_20240220		0908	1640	-30.76	-8.61	SV			966	01576	
.06	IA-03_20240220		0748	1545	-31.14	-6.01	AA			2144	0283	
.07	V-04_20240220		0925	1620	-30.53	-6.19	SV			3347	01550	
.08	IA-04_20240220		0750	1536	-36.54	-6.49	AA			2270	0271	
.09	V-05_20240220		0833	1610	-30.98	-6.61	SV			1845	01249	
.10	IA-05_20240220		0742	1332	-30.87	-9.62	AA			1698	01456	

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

Container Type

Relinquished By	Date/Time	Received By	Date/Time
Madilyn Flynn	2/20/24 2120	Anthony Green	2120 16:06
Anthony Green	2/20/24 2345		FEB 20 2024
	2/21/24 0400		2/20/24 2345

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.

AIR ANALYSIS

ALPHA — CHAIN OF CUSTODY

PAGE ___ OF ___

Date Rec'd in Lab: 2/21/24

ALPHA Job #: L2409206

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

Client Information

Client: AKRF
Address: 440 Park Ave South, Fl 7 New York NY
Phone: 212696 0670
Fax:
Email: sgrens@akrf.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: GrowNYC
Project Location: Grow NYC
Project #: 210121
Project Manager: Steve Grens
ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH
Date Due: Time:

Report Information - Data Deliverables

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

Billing Information

☐ Same as Client info PO # 210121

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm

Other Project Specific Requirements/Comments: CATEGORY B Deliverables /CLOSE SDG

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	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	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
09206 . 11	V-06_20240220	2/20/24	0952	1729	-31.27	-9.37	SV	MF	6L	3650	01541	X					
. 12	IA-06_20240220	↓	0759	1551	-31.03	-6.85	AA	↓	↓	3366	01823	X					
. 13	V-07_20240220	↓	0846	1618	-30.85	-8.01	SV	↓	↓	2771	0769	X					
. 14	IA-07_20240220	↓	0745	1531	-31.10	-6.35	AA	↓	↓	978	02100	X					
. 15	AA-01_20240220	↓	0805	1224	-31.86	-5.33	AA	↓	↓	2891	0753	X					

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

Container Type

Relinquished By:	Date/Time	Received By:	Date/Time
[signature]	2/20/24	MP/AW	2/20 18:06
MP/AW	2/20 19:34	Anthony Green	FEB 20 2024 2019
Anthony Green	2/20/24 2345	[signature]	2/20/24 2345
[illegible]	2/21/24 0400		[illegible]

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.

Appendix B
Case Narrative

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 7 & 12, 2024. The canister certification data is provided as an addendum.

WG1891258-2:The quality control sample CCAL, associated with WG1891258, did not meet the acceptance criteria for the full scan analysis for ethanol and dichlorofluoromethane. The associated compound(s) for those samples were reported from the SIM analysis. L40070

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

Authorized Signature: Christopher J Anderson

Report Date: 03/05/24

Title: Technical Director/Representative

for 3/15/2024

Appendix C
Data Summary Form I's
With Qualifications

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-01	Date Collected	: 02/20/24 17:08
Client ID	: V-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 17:47
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222761	Instrument ID	: AIRLAB22
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	0.428	0.200	--	2.12	0.989	--	
74-87-3	Chloromethane	0.672	0.200	--	1.39	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	5.10	1.00	--	12.1	2.38	--	
75-69-4	Trichlorofluoromethane	0.321	0.200	--	1.80	1.12	--	
67-63-0	Isopropanol	1.08	0.500	--	2.65	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	0.738	0.500	--	2.18	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-01	Date Collected	: 02/20/24 17:08
Client ID	: V-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 17:47
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222761	Instrument ID	: AIRLAB22
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
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.510	0.200	--	1.92	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.234	0.200	--	1.02	0.869	--	
179601-23-1	p/m-Xylene	0.855	0.400	--	3.71	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	~~U~~ UJ
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-01	Date Collected	: 02/20/24 17:08
Client ID	: V-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 17:47
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222761	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
95-47-6	o-Xylene	0.371	0.200	--	1.61	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.463	0.200	--	2.28	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-01	Date Collected	: 02/20/24 17:08
Client ID	: V-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 17:47
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: BJB
Lab File ID	: R222761_EV2	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
64-17-5	Ethanol	6.33	5.00	--	11.9	9.42	--	

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-02	Date Collected	: 02/20/24 13:54
Client ID	: IA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:58
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543056	Instrument ID	: AIRLAB15
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	0.535	0.200	--	2.65	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	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	0.264	0.200	--	1.48	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-02	Date Collected	: 02/20/24 13:54
Client ID	: IA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:58
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543056	Instrument ID	: AIRLAB15
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	--	# UJ
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-02	Date Collected	: 02/20/24 13:54
Client ID	: IA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:58
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543056	Instrument ID	: AIRLAB15
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-02	Date Collected	: 02/20/24 13:54
Client ID	: IA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:58
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: KJD
Lab File ID	: R1543056_EV2	Instrument ID	: AIRLAB15
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	ND	0.020	--	ND	0.136	--	U

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-03	Date Collected	: 02/20/24 17:15
Client ID	: V-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:19
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222762	Instrument ID	: AIRLAB22
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	0.405	0.200	--	2.00	0.989	--	
74-87-3	Chloromethane	2.94	0.200	--	6.07	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	6.81	1.00	--	16.2	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	3.56	0.500	--	8.75	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	1.14	0.500	--	3.46	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.512	0.200	--	1.59	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	1.53	0.500	--	4.51	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

for 3/14/2024

ALPHA ANALYTICAL

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-03	Date Collected	: 02/20/24 17:15
Client ID	: V-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:19
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222762	Instrument ID	: AIRLAB22
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
71-55-6	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	1.78	0.500	--	7.29	2.05	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.680	0.200	--	2.56	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.278	0.200	--	1.21	0.869	--	
179601-23-1	p/m-Xylene	1.19	0.400	--	5.17	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U J
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-03	Date Collected	: 02/20/24 17:15
Client ID	: V-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:19
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222762	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
95-47-6	o-Xylene	0.446	0.200	--	1.94	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.399	0.200	--	1.96	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-03	Date Collected	: 02/20/24 17:15
Client ID	: V-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:19
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: BJB
Lab File ID	: R222762_EV2	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
64-17-5	Ethanol	10.8	5.00	--	20.3	9.42	--	

for 3/14/2024

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-04	Date Collected	: 02/20/24 14:00
Client ID	: IA-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 21:39
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543057	Instrument ID	: AIRLAB15
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	0.529	0.200	--	2.62	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	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	0.269	0.200	--	1.51	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
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

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ALPHA ANALYTICAL

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-04	Date Collected	: 02/20/24 14:00
Client ID	: IA-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 21:39
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543057	Instrument ID	: AIRLAB15
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 J
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-04	Date Collected	: 02/20/24 14:00
Client ID	: IA-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 21:39
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543057	Instrument ID	: AIRLAB15
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-04	Date Collected	: 02/20/24 14:00
Client ID	: IA-02_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 21:39
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: KJD
Lab File ID	: R1543057_EV2	Instrument ID	: AIRLAB15
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

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ALPHA ANALYTICAL

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-05	Date Collected	: 02/20/24 16:40
Client ID	: V-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222763	Instrument ID	: AIRLAB22
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	0.395	0.200	--	1.95	0.989	--	
74-87-3	Chloromethane	1.82	0.200	--	3.76	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	11.7	1.00	--	27.8	2.38	--	
75-69-4	Trichlorofluoromethane	0.213	0.200	--	1.20	1.12	--	
67-63-0	Isopropanol	0.949	0.500	--	2.33	1.23	--	
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	0.655	0.200	--	2.04	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	1.69	0.500	--	4.98	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-05	Date Collected	: 02/20/24 16:40
Client ID	: V-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222763	Instrument ID	: AIRLAB22
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	0.212	0.200	--	0.747	0.705	--	
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	3.01	0.200	--	11.3	0.754	--	
591-78-6	2-Hexanone	0.211	0.200	--	0.865	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.269	0.200	--	1.17	0.869	--	
179601-23-1	p/m-Xylene	1.18	0.400	--	5.13	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U J
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-05	Date Collected	: 02/20/24 16:40
Client ID	: V-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222763	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
95-47-6	o-Xylene	0.521	0.200	--	2.26	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.515	0.200	--	2.53	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-05	Date Collected	: 02/20/24 16:40
Client ID	: V-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 18:51
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: BJB
Lab File ID	: R222763_EV2	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
64-17-5	Ethanol	20.4	5.00	--	38.4	9.42	--	

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-06	Date Collected	: 02/20/24 15:45
Client ID	: IA-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 22:22
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543058	Instrument ID	: AIRLAB15
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	0.517	0.200	--	2.56	0.989	--	
74-87-3	Chloromethane	0.582	0.200	--	1.20	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.22	1.00	--	2.90	2.38	--	
75-69-4	Trichlorofluoromethane	0.257	0.200	--	1.44	1.12	--	
67-63-0	Isopropanol	5.63	0.500	--	13.8	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	0.552	0.500	--	1.92	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	ND	0.200	--	ND	0.639	--	U

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-06	Date Collected	: 02/20/24 15:45
Client ID	: IA-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 22:22
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543058	Instrument ID	: AIRLAB15
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~~ UJ
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-06	Date Collected	: 02/20/24 15:45
Client ID	: IA-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 22:22
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543058	Instrument ID	: AIRLAB15
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-06	Date Collected	: 02/20/24 15:45
Client ID	: IA-03_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 22:22
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: KJD
Lab File ID	: R1543058_EV2	Instrument ID	: AIRLAB15
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	0.071	0.020	--	0.447	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-07	Date Collected	: 02/20/24 16:20
Client ID	: V-04_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 19:23
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222764	Instrument ID	: AIRLAB22
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	0.366	0.200	--	1.81	0.989	--	
74-87-3	Chloromethane	1.49	0.200	--	3.08	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	16.7	1.00	--	39.7	2.38	--	
75-69-4	Trichlorofluoromethane	0.391	0.200	--	2.20	1.12	--	
67-63-0	Isopropanol	0.506	0.500	--	1.24	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	1.37	0.500	--	4.15	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.461	0.200	--	1.44	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	6.42	0.500	--	18.9	1.47	--	

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-07	Date Collected	: 02/20/24 16:20
Client ID	: V-04_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 19:23
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222764	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	0.623	0.500	--	2.55	2.05	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.834	0.200	--	3.14	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.282	0.200	--	1.22	0.869	--	
179601-23-1	p/m-Xylene	1.11	0.400	--	4.82	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	~~U~~ UJ
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-07	Date Collected	: 02/20/24 16:20
Client ID	: V-04_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 19:23
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222764	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.397	0.200	--	1.72	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.412	0.200	--	2.03	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-08	Date Collected	: 02/20/24 15:36
Client ID	: IA-04_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 23:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543059	Instrument ID	: AIRLAB15
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	0.524	0.200	--	2.59	0.989	--	
74-87-3	Chloromethane	0.611	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	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	0.268	0.200	--	1.51	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	0.707	0.500	--	2.46	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	ND	0.200	--	ND	0.639	--	U

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-08	Date Collected	: 02/20/24 15:36
Client ID	: IA-04_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 23:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543059	Instrument ID	: AIRLAB15
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	--	or UJ
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

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ALPHA ANALYTICAL

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-08	Date Collected	: 02/20/24 15:36
Client ID	: IA-04_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 23:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543059	Instrument ID	: AIRLAB15
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

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ALPHA ANALYTICAL

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-08	Date Collected	: 02/20/24 15:36
Client ID	: IA-04_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 23:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: KJD
Lab File ID	: R1543059_EV2	Instrument ID	: AIRLAB15
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	0.071	0.020	--	0.447	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-09	Date Collected	: 02/20/24 16:10
Client ID	: V-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 20:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222766	Instrument ID	: AIRLAB22
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	0.362	0.200	--	1.79	0.989	--	
74-87-3	Chloromethane	0.530	0.200	--	1.09	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	8.94	1.00	--	21.2	2.38	--	
75-69-4	Trichlorofluoromethane	0.234	0.200	--	1.31	1.12	--	
67-63-0	Isopropanol	1.93	0.500	--	4.74	1.23	--	
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	0.542	0.500	--	1.88	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.205	0.200	--	0.638	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	1.71	0.200	--	8.35	0.977	--	
109-99-9	Tetrahydrofuran	0.621	0.500	--	1.83	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-09	Date Collected	: 02/20/24 16:10
Client ID	: V-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 20:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222766	Instrument ID	: AIRLAB22
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
71-55-6	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	0.242	0.200	--	0.992	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	1.02	0.200	--	3.84	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.354	0.200	--	1.54	0.869	--	
179601-23-1	p/m-Xylene	1.37	0.400	--	5.95	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U → UJ
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-09	Date Collected	: 02/20/24 16:10
Client ID	: V-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 20:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222766	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
95-47-6	o-Xylene	0.490	0.200	--	2.13	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.489	0.200	--	2.40	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-09	Date Collected	: 02/20/24 16:10
Client ID	: V-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 20:26
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: BJB
Lab File ID	: R222766_EV2	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
64-17-5	Ethanol	14.6	5.00	--	27.5	9.42	--	

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-10	Date Collected	: 02/20/24 13:32
Client ID	: IA-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 00:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543061	Instrument ID	: AIRLAB15
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	0.612	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	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	0.283	0.200	--	1.59	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-10	Date Collected	: 02/20/24 13:32
Client ID	: IA-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 00:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543061	Instrument ID	: AIRLAB15
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 J
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-10	Date Collected	: 02/20/24 13:32
Client ID	: IA-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 00:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543061	Instrument ID	: AIRLAB15
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-10	Date Collected	: 02/20/24 13:32
Client ID	: IA-05_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 00:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: KJD
Lab File ID	: R1543061_EV2	Instrument ID	: AIRLAB15
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	0.075	0.020	--	0.472	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-11	Date Collected	: 02/20/24 17:29
Client ID	: V-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:00
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222767	Instrument ID	: AIRLAB22
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	0.355	0.200	--	1.76	0.989	--	
74-87-3	Chloromethane	1.78	0.200	--	3.68	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	6.04	1.00	--	14.3	2.38	--	
75-69-4	Trichlorofluoromethane	0.984	0.200	--	5.53	1.12	--	
67-63-0	Isopropanol	2.52	0.500	--	6.19	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	1.47	0.500	--	4.46	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.328	0.200	--	1.02	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.584	0.500	--	1.72	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	4.89	0.500	--	14.4	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

for 3/14/2024

ALPHA ANALYTICAL

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-11	Date Collected	: 02/20/24 17:29
Client ID	: V-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:00
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222767	Instrument ID	: AIRLAB22
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	0.235	0.200	--	0.828	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.244	0.200	--	0.780	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	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	0.243	0.200	--	0.996	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	0.774	0.500	--	3.17	2.05	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	1.20	0.200	--	4.52	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.387	0.200	--	1.68	0.869	--	
179601-23-1	p/m-Xylene	1.57	0.400	--	6.82	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	~~U~~ UJ
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

for 3/14/2024

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-11	Date Collected	: 02/20/24 17:29
Client ID	: V-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:00
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222767	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
95-47-6	o-Xylene	0.567	0.200	--	2.46	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.490	0.200	--	2.41	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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

for 3/14/2024

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-11	Date Collected	: 02/20/24 17:29
Client ID	: V-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:00
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: BJB
Lab File ID	: R222767_EV2	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
64-17-5	Ethanol	19.9	5.00	--	37.5	9.42	--	

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-12	Date Collected	: 02/20/24 15:51
Client ID	: IA-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543062	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.528	0.200	--	2.61	0.989	--	
74-87-3	Chloromethane	0.571	0.200	--	1.18	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	0.268	0.200	--	1.51	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	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	0.245	0.200	--	0.971	0.793	--	
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

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ALPHA ANALYTICAL

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-12	Date Collected	: 02/20/24 15:51
Client ID	: IA-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543062	Instrument ID	: AIRLAB15
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	0.749	0.500	--	3.07	2.05	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	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 UJ
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-12	Date Collected	: 02/20/24 15:51
Client ID	: IA-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543062	Instrument ID	: AIRLAB15
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-12	Date Collected	: 02/20/24 15:51
Client ID	: IA-06_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: KJD
Lab File ID	: R1543062_EV2	Instrument ID	: AIRLAB15
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	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

for 3/14/2024

Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-13	Date Collected	: 02/20/24 16:18
Client ID	: V-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:32
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222768	Instrument ID	: AIRLAB22
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	0.364	0.200	--	1.80	0.989	--	
74-87-3	Chloromethane	1.29	0.200	--	2.66	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.74	1.00	--	8.88	2.38	--	
75-69-4	Trichlorofluoromethane	0.236	0.200	--	1.33	1.12	--	
67-63-0	Isopropanol	1.05	0.500	--	2.58	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	2.11	0.500	--	6.40	1.52	--	
75-09-2	Methylene chloride	0.575	0.500	--	2.00	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.202	0.200	--	0.629	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.20	0.500	--	3.54	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	0.726	0.500	--	2.14	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

for 3/14/2024

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-13	Date Collected	: 02/20/24 16:18
Client ID	: V-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:32
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222768	Instrument ID	: AIRLAB22
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	0.509	0.200	--	1.79	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.329	0.200	--	1.05	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	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	1.12	0.200	--	5.23	0.934	--	
142-82-5	Heptane	0.356	0.200	--	1.46	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.772	0.200	--	2.91	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	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	0.630	0.400	--	2.74	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U UJ
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-13	Date Collected	: 02/20/24 16:18
Client ID	: V-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:32
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R222768	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
95-47-6	o-Xylene	0.223	0.200	--	0.969	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-13	Date Collected	: 02/20/24 16:18
Client ID	: V-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 03/01/24 21:32
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: BJB
Lab File ID	: R222768_EV2	Instrument ID	: AIRLAB22
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
64-17-5	Ethanol	12.6	5.00	--	23.7	9.42	--	

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-14	Date Collected	: 02/20/24 15:31
Client ID	: IA-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:52
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543063	Instrument ID	: AIRLAB15
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	0.527	0.200	--	2.61	0.989	--	
74-87-3	Chloromethane	0.581	0.200	--	1.20	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	0.269	0.200	--	1.51	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-14	Date Collected	: 02/20/24 15:31
Client ID	: IA-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:52
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543063	Instrument ID	: AIRLAB15
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~~ UJ
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-14	Date Collected	: 02/20/24 15:31
Client ID	: IA-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:52
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543063	Instrument ID	: AIRLAB15
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-14	Date Collected	: 02/20/24 15:31
Client ID	: IA-07_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/27/24 01:52
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: KJD
Lab File ID	: R1543063_EV2	Instrument ID	: AIRLAB15
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	0.067	0.020	--	0.421	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-15	Date Collected	: 02/20/24 12:24
Client ID	: AA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:16
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543055	Instrument ID	: AIRLAB15
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	0.530	0.200	--	2.62	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	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.42	1.00	--	3.37	2.38	--	
75-69-4	Trichlorofluoromethane	0.266	0.200	--	1.49	1.12	--	
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-15	Date Collected	: 02/20/24 12:24
Client ID	: AA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:16
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543055	Instrument ID	: AIRLAB15
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~~ UJ
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

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Results Summary
Form 1
Volatile Organics in Air

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-15	Date Collected	: 02/20/24 12:24
Client ID	: AA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:16
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R1543055	Instrument ID	: AIRLAB15
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

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Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: AKRF, Inc.	Lab Number	: L2409206
Project Name	: GROW NYC	Project Number	: 210121
Lab ID	: L2409206-15	Date Collected	: 02/20/24 12:24
Client ID	: AA-01_20240220	Date Received	: 02/20/24
Sample Location	: GROW NYC	Date Analyzed	: 02/26/24 20:16
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: KJD
Lab File ID	: R1543055_EV2	Instrument ID	: AIRLAB15
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.077	0.020	--	0.484	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

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