

**AWARD PACKAGING CORP. SITE
625 SOUTH STREET
GARDEN CITY, NEW YORK**

**PERIODIC REVIEW REPORT
APRIL 29, 2020 THROUGH APRIL 29, 2021**

NYSDEC SITE NO. 130155

**Prepared for:
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For Submittal to:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

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**JULY 2021
(REVISED DECEMBER 2023)**

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LIST OF ACRONYMS

Acronym	Definition
AGC	Annual Guidance Concentration
AS	Air sparging
ASP	Analytical Services Protocol
CLP	Contract Laboratory Protocol
DUSR	Data Usability Summary Report
ECs	Engineering Controls
FPM	FPM Group, Ltd.
HASP	Health and Safety Plan
ICs	Institutional Controls
MS/MSD	Matrix spike/matrix spike duplicate
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OM&M	Operation, Monitoring and Maintenance
QA/QC	Quality Assurance/Quality Control
scfm	standard cubic feet per minute
SGC	Short-Term Guidance Concentration
Standards	NYSDEC Class GA Ambient Water Quality Standards
SVE	Soil vapor extraction
ug/l	micrograms per liter
VCA	Voluntary Cleanup Agreement
VCP	Voluntary Cleanup Program
VOC	Volatile organic compound

EXECUTIVE SUMMARY

The findings in this Periodic Review Report (PRR) for the Award Packaging Corp Site (NYSDEC Site No. 130155), located in Garden City, New York, are summarized as follows:

- The EC (SVE and AS system) remains present and the SVE system is in operation to provide sub slab depressurization to prevent potential SVI into the former Award Packaging warehouse tenant space.
- The cover system for the MH-2A area and building slab were completely in place and undisturbed during the reporting period.
- An IC (environmental easement) is in place and includes restrictions on property use, requirements for operating, monitoring, and maintaining the ECs, for maintaining the groundwater monitoring system, and for conducting groundwater monitoring. The provisions of the IC were adhered to during the reporting period.

➤ Effectiveness of Remedial Program

- The remedial program for the Site has been effective, as the remedial objectives for groundwater have been achieved and operation of the AS system is no longer necessary. Operation of the SVE system to provide sub-slab depressurization continues to be effective as it provides depressurization of the slab and prevents SVI.

➤ Recommendations

Annual inspections and monitoring of the SVE System (since its reactivation in May 2023) at the Site should continue in accordance with the SMP and the reporting frequency should be performed annually to confirm the cover system remains in place and that the SVE system which was reactivated in May 2023 continues to operate for mitigation purposes.

SECTION 1.0

INTRODUCTION AND SITE OVERVIEW

1.1 Introduction

This revised Periodic Review Report (PRR) Report was prepared to document site management activities at the Award Packaging Corp Site (Site) conducted between April 29, 2020 and April 29, 2021 under the New York State (NYS) Superfund Program administered by New York State Department of Environmental Conservation (NYSDEC) and also includes a summary of the SVI testing conducted in April 2023 as requested by the NYSDEC and NYSDOH. Activities conducted prior to April 29, 2020 have been previously documented and approved by the NYSDEC, as summarized in Section 1.2 below.

The Site has been remediated in accordance with the NYSDEC's March 2012 Record of Decision and the NYSDEC-approved Remedial Design/Remedial Action Work Plan. The remedial activities were documented in the July 2017 Final Engineering Report and a Certificate of Completion was issued on December 29, 2017. Ongoing activities are conducted by FPM Group (FPM) on behalf of the owner in accordance with the Site Management Plan (SMP), which the NYSDEC approved on July 13, 2017. An SVI investigation was conducted on February 24, 2020 and in April 2023 in accordance with a NYSDEC approved work plan. The PRR for the 2019 – 2020 reporting period with recommendations to discontinue operations of the AS/SVE system and groundwater monitoring has been approved by the NYSDEC as documented in their July 23, 2021 correspondence. In February 2023 SVI testing was requested by the NYSDEC to further evaluate indoor and sub-slab soil vapor conditions, and was conducted in April 2023 in accordance with FPMs discussions with the NYSDEC and NYSDOH and as approved in the NYSDECs March 6, 2023 correspondence. The results of the April 2023 SVI testing warranted that the SVE system be placed online to provide sub-slab depressurization to prevent potential SVI in a portion of the former Award Packaging tenant space.. The findings and recommendations of the June 2023 report documenting the April 2023 Sampling was approved by the NYSDEC in their August 22, 2023 correspondence. Copies of the pertinent correspondence and approvals for the current reporting period and associated 2023 SVI sampling correspondence are included in Appendix A. The resumes of the environmental professionals implementing the SMP on behalf of the Owner are included in Appendix B.

1.2 Site Overview

Detailed Site background information was provided in the SMP. Information pertinent to implementation of the SMP during the April 29, 2020 through April 29, 2021 reporting period is summarized herein.

The Site is located in the County of Nassau, New York and is identified as Section 44, Block 77 and Lot 45. The Site is situated on an approximately 1.78-acre area bounded by the Meadowbrook Parkway to the north and east, and South Street and commercial and industrial properties to the south and west (Figure 1.2.1). The Site includes a 48,000 square-foot industrial building and an associated parking area. Operations of Award Packaging Corp. were limited to the western portion of Site (625 South Street) and were not conducted in the adjoining tenant spaces at 635 and 645 South Street.

Site operations associated with the former manufacturing at Award Packaging facility resulted in subsurface impacts for which remedial actions were required, as discussed below.

A remedial investigation (RI) was conducted between 2008 and 2010 which identified impacts in excess of available guidance, to soil, groundwater, soil vapor and indoor air. Soils impacted by volatile and semi-volatile organic compounds (VOCs & SVOCs) and/or metals was present in soils underlying the former printing press area, in proximity to the DW-01 and DW-02/DW-03 structures, and in several stormwater leaching pools. Removal of impacted soils in proximity to DW-01, DW-02/DW-03, and from several stormwater leaching structures was conducted during the remedial action.

Indoor air, outdoor air and sub-slab vapor sampling were performed in the former Award manufacturing space and in the adjoining tenant space during the RI. The sampling results indicated that a response action of monitoring was indicated for PCE in the former Award space. Sub-slab soil vapor conditions were addressed during the remedial action, as described below.

Groundwater sampling conducted during the RI detected concentrations of several VOCs, including acetone, benzene, ethylbenzene, toluene and/or methylene chloride in the vicinity of the DW-01 and DW-02/DW-03 areas. Subsequent groundwater sampling performed during the remedial action in the DW-01 area did identify impacts to groundwater in this area. No impacts to wells downgradient of these areas has been identified. Routine groundwater monitoring for VOCs has been conducted at the Site to evaluate groundwater conditions. Groundwater impacts in the DW-02 and DW-03 area are being addressed as part of the remedial action, as described below.

The AS/SVE system was installed between April and September 2016 in general accordance with the NYSDEC-approved Pilot Test Report for the Award Packaging Corp Site dated December 17, 2015 to remediate VOC impacted groundwater and soil and to also provide vapor mitigation in a portion of the former Award Packaging tenant space. Operation of the AS/SVE system was discontinued in 2019 as the remedial objectives for groundwater and SVI have been achieved as documented in prior data transmittals and the PRR submittal for 2019-2020 reporting period.

Groundwater monitoring for VOCs has been conducted in accordance with the SMP at the Site and has been discontinued following the February 2020 sampling event with NYSDEC approval as no exceedances of NYSDEC Class GA Standards had been achieved since 2018.

During the current reporting period the site was inspected in accordance with the SMP. No concerns with the monitoring system wells or cover system were noted.

1.3 Evaluation of Remedy Performance, Effectiveness and Protectiveness

The remedy has been implemented in compliance with the submitted and approved work plans and associated correspondence and was managed in compliance with the SMP approved by the NYSDEC. This remedy performed effectively and protects the public from the remaining residual materials at the Site.

Throughout the reporting period, the cover system of asphalt and concrete slabs was present and in good condition in compliance with the SMP.



FPM GROUP

FIGURE 1.2.1

SITE BOUNDARIES AND TAX MAP

AWARD PACKAGING CORP. SITE
625 SOUTH STREET
GARDEN CITY, NEW YORK

Drawn by: TAC

Checked By: BC

Date: 5/15/19

The approved Site usage is commercial and industrial. The Site usage is consistent with these approved uses. These use restrictions are effective at protecting the public from residual materials that remain onsite.

Operation of the AS/SVE for mitigation was not performed during the reporting period as it was shut down in accordance with our recommendations in the PRR for the 2019-2020 reporting period which were approved by the NYSDEC, correspondence (June 24, 2020). Previous groundwater monitoring and SVI testing conducted in February 2020 demonstrated that system had been effective, and that remediation and mitigation had achieved their remedial goals.

Groundwater monitoring was not conducted during the reporting period as the program was discontinued in accordance with our recommendations in the PRR for the 2019-2020 reporting period which were approved by the NYSDEC. Inspection and maintenance of the groundwater monitoring wells was conducted, as necessary. Previous groundwater monitoring has demonstrated that the remedy has been effective in achieving the remedial goal of improving and protecting groundwater quality.

SVI testing was requested by the NYSDEC and NYSDOH to evaluate current indoor air quality and sub-slab soil vapor per our discussions in February 2023 and NYSDEC's March 6, 2023 correspondence. The SVI testing was subsequently conducted in April 2023 and documented in FPM's June 14, 2023 report which indicated that mitigation was warranted in the northwestern portion of the warehouse. The SVE system was placed back in service in May 2023 to provide sub-slab depressurization for the warehouse portion of the building and is monitored in substantial conformance with the SMP.

SECTION 2.0

ENGINEERING AND INSTITUTIONAL CONTROLS COMPLIANCE

Remaining residual contamination following completion of the remedial action activities at the site includes VOC-impacted soil and groundwater in the DW-2/DW-03 area, VOC impacted soils in the DW-01 area, SVOC-impacted soil underlying the slab in the former press area, lead impacted soil in MH-2A and soil vapor in the former Award Packaging tenant space. The Engineering Controls (ECs) at this Site include an AS/SVE system to remediate contaminated soil and groundwater at the site, and to provide mitigation of soil vapor. The concrete slab in the former press area and manhole cover at MH-2A remain in-place and acts as a cap to prevent exposure to underlying impacted soils. These ECs were not in operation during the reporting period as permission to shutdown the AS/SVE had been previously approved by the NYSDEC in their July 2020 correspondence. It is noted that the SVE system was placed back in service in May 2023 to provide mitigation for a portion of the warehouse. The ECs implemented at the Site are described in more detail below.

At present, the SMP and related NYSDEC-approved documents essentially serve as an IC as they are used to implement, maintain, and monitor the ECs. Additional ICs are outlined in the IC/EC Certification Form and include a groundwater use restriction and land use restriction.

2.1 Engineering Control Component

The AS/SVE system, was installed in the area of DW-01 and DW-02/DW-03 to remediate VOC impacted soils and groundwater. The SVE well in the DW-01 area also provided mitigation to a portion of former Award Packaging tenant space to prevent potential SVI. The EC achieved its remedial objective and a recommendation to shut down the AS/SVE was made to the NYSDEC in the PRR for the 2019-2020 reporting period. The NYSDEC approved the recommendations of the PRR in their correspondence dated July 24, 2020.

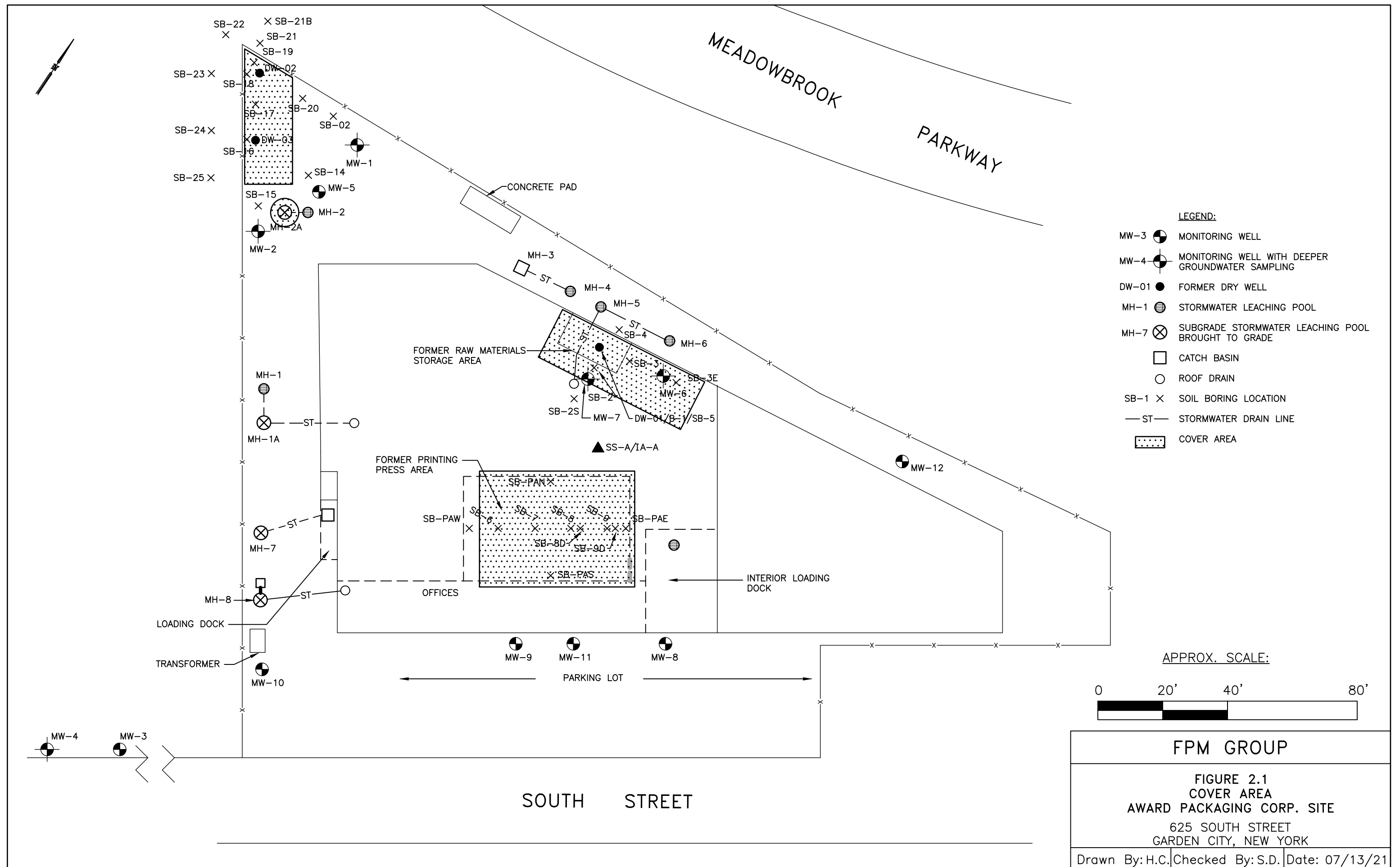
A request to further evaluate the potential for SVI was requested by the NYSDEC and NYSDOH in February 2023. SVI sampling was subsequently conducted on April 12, 2023 in accordance with an approved SVI sampling work plan with conditions as approved by the NYSDEC in their March 6, 2023 correspondence. The SVI sampling indicated that mitigation was warranted based upon the findings at one of the sub-slab soil vapor sampling locations. The SVE system, which was also designed to provide sub-slab depressurization in portions of the warehouse of the former Award Packaging Tenant Space, was placed back into service in May 2023.

The cover system consisting of the concrete slab in the former press area and manhole cover at MH-2A remain in-place and acts as a cap to prevent exposure to underlying impacted soils. The cover system remains effective at preventing exposure to remaining impacted soils. Figure 2.1 shows the cover area locations at the Site.

2.2 Institutional Control Component

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

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these restrictions on the property is required by the environmental easement and is implemented under the SMP. The environmental easement for the property was executed by the property owner, Rococo Associates, Inc. and has been filed with the Nassau County Clerk.

The IC for this Site includes the following requirements and restrictions:

- The property may be used for: commercial or industrial use, although land use is subject to local zoning laws;
- All ECs must be operated and maintained as specified in this SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property for potable or process water is prohibited without necessary water quality treatment as determined by the NYSDOH or the Nassau County Department of Health to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;
- Groundwater and other environmental or public health monitoring must be performed as defined in this SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for vapor intrusion must be evaluated for any buildings developed in the area within the IC boundaries noted on Figure 1.1.2, and any potential impacts that are identified must be monitored or mitigated; and
- Vegetable gardens and agriculture on the Site are prohibited.

These requirements and restrictions are more fully described in the SMP and were complied with during the reporting period. The observed Site use during the reporting period (commercial) is consistent with the allowed uses. No disturbances or excavations of the Site occurred during the reporting period. Municipal water supply is provided in the Site vicinity and the Site groundwater is not used.

2.3 EC/IC Certification

The EC/IC Certification Form provided by the NYSDEC has been completed in accordance with the associated general certification instructions. The completed certification form for the reporting period is included in Appendix C.

SECTION 3.0

MONITORING PLAN COMPLIANCE

The monitoring plan for the Site includes measures for evaluating the performance and effectiveness of the ECs in remediating VOC impacted soil and groundwater, and mitigating soil vapor. Monitoring of the ECs was not performed during the reporting period as the remedial objectives for the Site were achieved and monitoring of the ECs were no longer required.

3.1 AS/SVE System Monitoring

The AS/SVE system was not in service during the reporting period as recommended in the 2019-2020 PRR which was approved by the NYSDEC in their correspondence dated July 24, 2020. The SVE system was restarted in May 2023 following SVI testing which indicated that mitigation was warranted in the northwestern portion of the former Award Packaging warehouse tenant space. Monitoring of the SVE system has been reinstituted in accordance with the SMP to provide sub-slab depressurization.

3.1.1 Monitoring Program

All system monitoring activities were in general accordance with the SMP as discussed above and were recorded on the System Operating Log since the SSDS was placed back in service in May 2023. A copy of the System Operating Log documenting operation of the SVE system since it was placed back into service in May 2023 is included in Appendix D.

SVE system operation monitoring has been performed monthly since the SVE system was placed back into service in May 2023. A liquid level sensor for the moisture knockout vessel was found to be defective in June 2023 and was subsequently replaced. Routine maintenance of system equipment included cleaning of filter media and emptying of the moisture separator when necessary.

Monitoring of the SVE effluent was not performed during the reporting period, but has been monitored since the system was placed back into service in general accordance with the monitoring schedule. During each monitoring event, the effluent from the SVE blower discharge piping was screened with a calibrated PID. Effluent samples will also be periodically collected for laboratory analysis of VOCs.

3.1.2 Monitoring Results

The SVE system was not monitored during the reporting period, but has been monitored since it was placed back into service in May 2023 as noted above.

Sub-slab vacuum monitoring was performed during site visits to confirm that the SVE system is providing depressurization for mitigation for the building as intended. Monitoring points MP-2, MP-3 and MW-7 located within the former Award Packaging tenant space were gauged and found to have vacuums ranging from and 0.002 to 0.678 inches of water following startup.

Effluent monitoring was performed to ensure that total VOC concentrations continued to remain low and did not require treatment prior to discharge. Since reactivation of the system in May 2023 PID responses as measured with a calibrated PID were noted to range from 0.0 to 3.8 ppm

following startup (see System Operating Log in Appendix D). These levels are low and did not indicate the need for treatment prior to discharge to the atmosphere.

3.1.3 SVI Investigation

On April 23, 2023, an investigation was conducted to evaluate if SVI was a potential concern in the former Award Packaging and adjoining electrical contractor tenant spaces. The work was conducted in accordance with FPM's previously approved October 22, 2019 work plan and our February 2023 discussions. Correspondence approving the investigation scope and use of the 2019 SVI Work Plan which was received on March 6, 2023 (see Appendix A). The investigation findings and recommendations were submitted to the NYSDEC for review (FPM, June 14, 2023, see Appendix A) and is presented below. The SVI investigation report was subsequently approved by the NYSDEC in their correspondence dated August 22, 2023. A site plan showing the sampling locations is included as Figure 3.1.3.

3.1.3.1 SVI Sampling Procedures

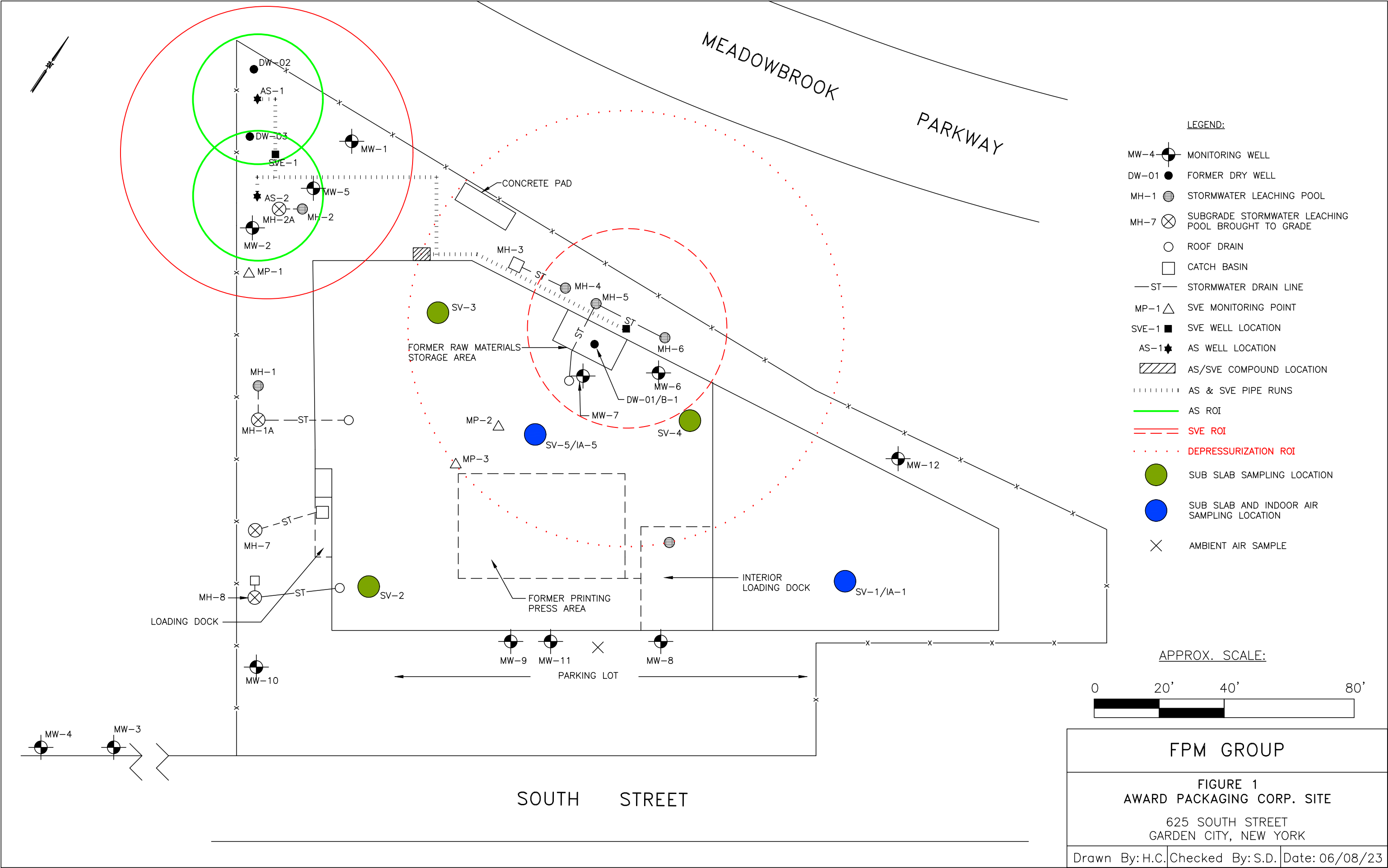
Indoor air samples were collected from the former Award Packaging tenant space (IA-5 and IA-55 duplicate), and the adjoining electrical contractor tenant space (IA-1) at a height of approximately four feet above the slab. The ambient air sample was collected outside of the building in a similar manner as the indoor air samples. The sub-slab soil vapor samples were collected from four locations within the former Award Packaging tenant space (SV-2 through SV-5) and one location in the adjoining electrical contractor tenant space (SV-1). The temporary sub-slab soil vapor ports were installed approximately one week prior to the sampling event in accordance with New York State Department of Health (NYSDOH) Guidance. It is noted that the soil vapor extraction (SVE) system was not in operation at the time of the testing and has been offline since 2020.

The indoor air and sub-slab soil vapor samples were co-located in the adjoining electrical contractor tenant space. In the former Award Packaging tenant space the indoor air canister was located in the warehouse in proximity to SV-5. All samples were collected in laboratory-provided Summa canisters equipped with flow controllers in accordance with NYSDOH guidance. The flow controllers were set for an approximate eight-hour period, comparable to typical building occupancy. The filled indoor and ambient air sample canisters were managed under chain-of-custody procedures and transmitted to a NYSDOH-certified lab for analysis of volatile organic compounds (VOCs) using the TO-15 low level method. The sub-slab soil vapor samples were analyzed for standard level VOCs by Method TO-15.

A building inventory form was completed during the sampling event to document the building construction, HVAC system operations, and the potential presence of VOC sources in the building. No obvious sources of VOC were identified in the former Award Packaging tenant space. However, it was noted that the building is utilized to store various plastic, silicone and fabric products that are likely manufactured or cleaned with solvents. Several VOC-containing substances were noted in the adjoining electrical contractor tenant space where storage of electrical equipment and maintenance of commercial vehicles are conducted. These items included a solvent-based parts cleaner, motor oils, hydraulic oils, adhesives, and various spray solvents. Chlorinated and non-chlorinated solvents were identified during the chemical inventory. The completed building inventory form is included in Attachment C.

Quality assurance/quality control (QA/QC) procedures were implemented, including use of a chain of custody to document the sequence of sample possession and collection and analysis of

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a duplicate sample. In addition, the laboratory utilized internal QA/QC procedures and samples to assess the accuracy and precision of the laboratory data.

Following receipt of the chemical analytical data, the data package and associated QA/QC sample results were evaluated and a data usability summary report (DUSR) was prepared. The DUSR is included in Attachment A and no significant data quality issues were identified. The data are anticipated to be of sufficient quality for their intended use.

3.1.3.2 SVI Sample Results

The data from the current sampling event are summarized in Table 3.1.3.2.1 and the indoor air and sub-slab soil vapor sample results were evaluated in accordance with NYSDOH Guidance (October 2006) and the May 2017 matrices. Our review of these data with respect to the NYSDOH guidance indicates the following:

Former Award Packaging Tenant Space

- Several VOCs for which the NYSDOH provides guidance were detected in the sub-slab soil vapor and/or indoor air, including 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), carbon tetrachloride (CT), cis-1,2 dichloroethane (c1,2-DCE), tetrachloroethene (PCE), and trichloroethene (TCE). Several of these VOCs were also noted in the outdoor air sample. A response of “no further action” was noted for all VOCs for which the NYSDOH provides guidance, except for PCE, which is present in the sub-slab soil vapor at SV-3 at a concentration for which “mitigation” is indicated. The low indoor air concentrations of PCE (ranging from 1.71 to 1.77 ug/m³) in the primary and duplicate samples when compared with the ambient air concentration (4.87 ug/m³) do not suggest that SVI is occurring;
- Several VOCs for which there is no NYSDOH guidance were noted in the indoor air and were generally within the range of observed concentrations for indoor air for commercial buildings. Several of the associated co-located sub-slab soil vapor sample concentrations of these VOCs were noted to be significantly less than the indoor air, indicating that these VOCs may be associated with warehoused inventory in the building; and
- Several VOCs were noted in the outdoor ambient sample, including PCE, TCE, c1,2-DCE, and CT. CT was noted at very similar concentrations in both the indoor and outdoor air samples, suggesting that this is an ambient condition in the site vicinity. These results were considered when evaluating the indoor air data.

Adjoining Electrical Contractor Tenant Space

- In the adjoining electrical contractor tenant space the VOCs including CT, c1,2-DCE, PCE and TCE were detected in the sub-slab soil vapor and/or indoor samples. These compounds were also noted in the outdoor air sample. It was noted that petroleum products, adhesives, and chlorinated and non-chlorinated solvents for equipment maintenance, some of which include PCE, are in use and/or stored in the tenant space. The indoor air appears to be affected by these materials, as evidenced by the higher concentrations of petroleum VOCs, solvent VOCs, alcohols, and other VOCs in the indoor air than in the sub-slab soil vapor or outdoor air. A review of the c1,2 DCE and TCE data indicates a response of “no further action”. A review of the PCE data indicates “mitigation”. However, the ongoing use of PCE-containing solvents for maintenance activities, and the presence of other business-related VOCs in the indoor air, indicate that the indoor air PCE concentrations are likely due to chemical use in this tenant space and not due to SVI; and

TABLE 3.1.3.2.1
AIR AND SUB-SOIL VAPOR CHEMICAL ANALYTICAL DATA
AWARD PACKAGING CORP. SITE # 130155
SOUTH STREET, GARDEN CITY, NEW YORK

Sample ID	SV-1	IA-1	SV-2	SV-3	SV-4	SV-5	IA-5	IA-55 (Duplicate of IA-5)	AMBIENT	Indoor Air Background Levels, Commercial*
Sample Location	Adjoining Tenant Space Electrical Contractor		Former Award Packaging Tenant Space							
Collection Date	4/12/2023	4/12/2023	4/12/2023	4/12/2023	4/12/2023	4/12/2023	4/12/2023	4/12/2023	4/12/2023	
Matrix	Sub-Slab Soil Vapor	Air	Sub-Slab Soil Vapor				Air	Air	Outdoor Air	
Volatile Organic Compounds By TO15										
1,1,1-Trichloroethane	< 1.00	< 1.00	12.8	161	< 1.00	36.8	< 1.00	< 1.00	< 1.00	2.6 - 33.0
1,1-Dichloroethane	< 1.00	< 1.00	< 1.00	1.61	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<0.4 - <0.8
1,1-Dichloroethene	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.44	< 0.20	< 0.20	< 0.20	<0.9 - <1.6
1,2,4-Trimethylbenzene	1.28	13.2	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.7 - 13.7
1,2-dichloropropane	< 1.00	< 1.00	1.58	< 1.00	< 1.00	< 1.00	9.37	9.01	< 1.00	<0.5 - <1.7
1,3,5-Trimethylbenzene	< 1.00	4.04	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<1.3 - 4.6
1,3-Butadiene	< 1.00	3.34	< 1.00	< 1.00	< 1.00	2.02	< 1.00	< 1.00	< 1.00	<2.3 - <7.5
2-Hexanone(MBK)	1.43	< 1.00	< 1.00	< 1.00	< 1.00	1.21	< 1.00	< 1.00	< 1.00	-
4-Ethyltoluene	1.47	14.5	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<1.5 - 5.9
4-Methyl-2-pentanone(MIBK)	< 1.00	< 1.00	< 1.00	< 1.00	2.67	11.5	< 1.00	< 1.00	< 1.00	<1.2 - 8.1
Acetone	16.5	102	19.9	6.2	37.7	52.2	33.9	32.8	7.45	32.4 - 120.2
Benzene	2.17	19.1	< 1.00	< 1.00	< 1.00	1.17	< 1.00	< 1.00	< 1.00	2.1 - 12.5
Carbon Disulfide	< 1.00	< 1.00	< 1.00	< 1.00	2.12	< 1.00	< 1.00	< 1.00	< 1.00	<0.8 - 6.4
Carbon Tetrachloride	< 0.20	0.42	< 0.20	< 0.20	0.3	< 0.20	0.48	0.47	0.41	<0.8 - 0.7
Chloroform	< 1.00	4.71	1.27	1.06	< 1.00	< 1.00	8.69	8.54	7.03	<0.4 - 1.4
Chloromethane	< 1.00	1.25	< 1.00	< 1.00	1.47	< 1.00	1.42	1.46	1.1	2.1 - 4.4
Cis-1,2-Dichloroethene	1.8	< 0.20	< 0.20	0.36	< 0.20	0.95	0.26	< 0.20	1.49	<0.8 - <2.0
Dichlorodifluoromethane	2.34	2.26	1.9	2.44	2.17	2.25	2.48	2.39	2.17	4.8 - 32.9
Ethanol	5.2	135	16.3	6.7	77.6	9.3	123	123	10.6	26.0 - 290.0
Ethyl acetate	< 1.00	2.15	< 1.00	< 1.00	< 1.00	< 1.00	1.75	1.81	< 1.00	<1.0 - 9.5
Ethylbenzene	1.94	16.3	< 1.00	< 1.00	< 1.00	1.14	1.51	1.45	< 1.00	<1.6 - 7.6
Heptane	2.47	25.6	10.4	1.86	2.08	2.78	54.9	53.2	< 1.00	<1.3 - 3.1
Hexane	4.26	37.7	1.93	< 1.00	1.55	< 1.00	11.2	11.1	< 1.00	1.6 - 15.2
Isopropylalcohol	1.49	11.1	2.0	1.38	3.51	2.65	13.4	12.6	1.62	-
Isopropylbenzene	< 1.00	1.4	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-
m,p-Xylene	6.03	44.3	1.27	1.03	1.6	2.86	4.26	3.96	< 1.00	4.1 - 28.5
Methyl Ethyl Ketone	4.19	5.72	2.01	< 1.00	2.07	6.37	7.34	7.22	< 1.00	3.3 - 13.5
Methylene Chloride	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	9.89	9.79	< 3.00	<1.7 - 16.0
o-Xylene	1.84	16.3	< 1.00	< 1.00	< 1.00	1.11	1.78	1.7	< 1.00	<2.4 - 11.2
Propylene	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	8.91	< 1.00	< 1.00	< 1.00	-
Styrene	< 1.00	1.01	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<1.6 - 4.3
Tetrachloroethene	115	53.8	82.7	1,840	3.18	193	1.71	1.77	4.87	<1.9 - 25.4
Tetrahydrofuran	< 1.00	3.33	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.21	< 1.00	-
Toluene	9	82.9	3.75	1.86	4.22	4.48	19.7	18.6	< 1.00	10.7 - 70.8
Trichloroethene	5.19	< 0.20	< 0.20	6.61	< 0.20	5.42	0.32	0.25	0.77	<1.2 - 6.5
Trichlorofluoromethane	1.57	1.22	1.13	1.57	1.09	1.54	1.29	1.22	1.08	<3.7 - 54.0

Notes:

< = Not detected at the noted Method Detection Limit.

- = No background level established.

NYSDOH Guidance is provided for shaded compounds.

Detections noted by **bold type**.

* = USEPA 2001 Building Assessment and Survey Evaluation of public and commercial office buildings.

- As noted above, several VOCs for which there is no NYSDOH guidance were noted in the indoor air. These detections are likely related to chemical use in this space.

3.1.4 AS/SVE Monitoring Deficiencies

No AS/SVE system monitoring deficiencies were noted during the 2020-2021 reporting period as the system was not in operation. No deficiencies were reported for the SVE system since it was returned to service in May 2023.

3.1.5 AS/SVE Monitoring Conclusions and Recommendations

Operation of the SVE system, for mitigation purposes, in the area of former sampling point SV-3 shall continue until future testing indicates mitigation is no longer needed and approval from the NYSDEC and NYSDOH is obtained.

3.2 **Groundwater Monitoring**

The groundwater monitoring program has been discontinued with approval from the NYSDEC, therefore, groundwater monitoring was not performed during the reporting period.

SECTION 4.0

OPERATION AND MAINTENANCE PLAN COMPLIANCE

The Site has O & M requirements for the AS/SVE system while the system is operational and for the groundwater monitoring wells while groundwater monitoring is required.

The AS/SVE system has been shut down with approval from the NYSDEC, therefore, O & M of this system was not performed during the 2020-2021 reporting period. The SVE was placed back into service in May 2023 as previously discussed and is monitored on a monthly basis.

The groundwater monitoring program has been discontinued with approval from the NYSDEC. The groundwater monitoring wells were checked during the annual inspection to evaluate whether maintenance (repair) is necessary.

4.1 Summary of O&M Activities

During the reporting period the groundwater wells were checked, and no maintenance or repair of the groundwater monitoring wells was necessary.

4.2 Evaluation of O&M Activities

The O&M activities enabled the groundwater monitoring network to continue operating, if required.

4.3 O&M Deficiencies

No O&M deficiencies were noted during this reporting period.

4.4 O&M Conclusions and Recommendations

O&M activities for the groundwater monitoring network were effective during this reporting period.

SECTION 5.0 CONCLUSIONS AND RECOMMENDATIONS

5.1 Compliance with ECs/IC and Monitoring Plan

Assessment of overall Site compliance, including the ECs, IC, and monitoring plans during the reporting period are summarized as follows:

➤ ECs and IC Compliance

- The AS/SVE EC remains in place. The AS/SVE was shutdown with NYSDEC approval in 2020. The SVE system was placed back into service in June 2023 when SVI testing indicated mitigation was necessary to prevent potential SVI. The cap for MH-2A and building slab were completely in place and undisturbed during the reporting period.
- An IC (environmental easement) is in place and includes restrictions on property use, requirements for operating, monitoring, and maintaining the ECs, and for maintaining the groundwater monitoring system. The provisions of the IC were adhered to in accordance with the SMP and NYSDEC requirements during the reporting period as described in Sections 3 and 4. A copy of the completed EC/IC certifications are included in the PRR.

➤ Monitoring and O&M

- Groundwater monitoring was not conducted during the reporting period as this program has been discontinued with NYSDEC approval.
- O & M was not conducted during the reporting period as shutdown of the AS/SVE system had been approved by the NYSDEC in July 2020. O & M has resumed for the SVE system since it was placed back into service in May 2023.
- Inspection and maintenance of the groundwater monitoring wells was conducted, as necessary, and in accordance with the SMP.

5.2 Performance and Effectiveness of the Remedy

The remedy has been implemented in compliance with the applicable work plans and NYSDEC approvals and has been managed during the reporting period in compliance with the SMP.

- Throughout the reporting period, the cover system was complete and in good condition. The completed cover system effectively protects Site occupants from the remaining residual materials.
- The approved Site usage is commercial and industrial. Commercial tenants occupied the Site throughout the reporting period. The Site usage and development are consistent with the approved uses and are protective.
- The monitoring well network remains in place and did not require any repairs.

5.3 Recommendations

Based on the current Site conditions, FPM recommends the following:

- Annual inspections at the Site should continue in accordance with the SMP and the reporting frequency should be performed annually as the remedial objectives for groundwater have been achieved and monthly monitoring of the SVE for sub-slab depressurization is ongoing to prevent potential SVI.

APPENDIX A

NYSDEC CORRESPONDANCE

- **NYSDEC 2019-2020 PRR APPROVAL (JULY 24, 2020)**
- **NYSDEC PRR REMINDER NOTICE (MARCH 19, 2021)**
- **FPM PRR EXTENSION REQUEST (JUNE 2, 2021)**
- **NYSDEC SVI SAMPLING APPROVAL (MARCH 6, 2023)**
- **FPM SVI SAMPLING REPORT (JUNE 14, 2023)**
- **NYSDEC SVI SAMPLING REPORT (AUGUST 22, 2023)**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation

625 Broadway, 11th Floor, Albany, NY 12233-7020

P: (518)402-9543 | F: (518)402-9547

www.dec.ny.gov

3/19/2021

Jill S. Lefkowitz
Rococo Associates, Inc.
223 Wall Street
Suite 162
Huntington, NY 11743

Re: Reminder Notice: Site Management Periodic Review Report and IC/EC Certification Submittal

Site Name: Award Packaging Corp.

Site No.: 130155

Site Address: 625 South Street
Garden City, NY 11530

Dear Jill S. Lefkowitz:

This letter serves as a reminder that sites in active Site Management (SM) require the submittal of a periodic progress report. This report, referred to as the Periodic Review Report (PRR), must document the implementation of, and compliance with, site-specific SM requirements. Section 6.3(b) of DER-10 *Technical Guidance for Site Investigation and Remediation* (available online at <http://www.dec.ny.gov/regulations/67386.html>) provides guidance regarding the information that must be included in the PRR. Further, if the site is comprised of multiple parcels, then you as the Certifying Party must arrange to submit one PRR for all parcels that comprise the site. The PRR must be received by the Department no later than **May 29, 2021**. Guidance on the content of a PRR is enclosed.

Site Management is defined in regulation (6 NYCRR 375-1.2(at)) and in Chapter 6 of DER-10. Depending on when the remedial program for your site was completed, SM may be governed by multiple documents (e.g., Operation, Maintenance, and Monitoring Plan; Soil Management Plan) or one comprehensive Site Management Plan.

A Site Management Plan (SMP) may contain one or all of the following elements, as applicable to the site: a plan to maintain institutional controls and/or engineering controls ("IC/EC Plan"); a plan for monitoring the performance and effectiveness of the selected remedy ("Monitoring Plan"); and/or a plan for the operation and maintenance of the selected remedy ("O&M Plan"). Additionally, the technical requirements for SM are stated in the decision document (e.g., Record of Decision) and, in some cases, the legal agreement directing the remediation of the site (e.g., order on consent, voluntary agreement, etc.).

When you submit the PRR (by the due date above), include the enclosed forms documenting that all SM requirements are being met. The Institutional Controls (ICs) portion of the form (Box 6) must be signed by you or your designated representative. The Engineering Controls (ECs) portion of the form (Box 7) must be signed by a Professional Engineer (PE). If you cannot certify that all SM requirements are being met, you must submit a Corrective Measures Work Plan that identifies the actions to be taken to restore compliance. The work plan must include a schedule to be approved by the Department. The Periodic Review process will not be considered complete until all necessary corrective measures are completed and all required controls are certified. Instructions for completing the certifications are enclosed.



Department of
Environmental
Conservation

All site-related documents and data, including the PRR, must be submitted in electronic format to the Department of Environmental Conservation. The required format for documents is an Adobe PDF file with optical character recognition and no password protection. Data must be submitted as an electronic data deliverable (EDD) according to the instructions on the following webpage:

<https://www.dec.ny.gov/chemical/62440.html>

Documents may be submitted to the project manager either through electronic mail or by using the Department's file transfer service at the following webpage:

<https://fts.dec.state.ny.us/fts/>

The Department will not approve the PRR unless all documents and data generated in support of the PRR have been submitted using the required formats and protocols.

You may contact Joseph Jones, the Project Manager, at 518-402-9613 or joseph.jones@dec.ny.gov with any questions or concerns about the site. Please notify the project manager before conducting inspections or field work. You may also write to the project manager at the following address:

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

Albany, NY 12233-7015

Enclosures

PRR General Guidance
Certification Form Instructions
Certification Forms

ec: w/ enclosures

Joseph Jones, Project Manager

Bob Corcoran, Section Chief

Chris Engelhardt, Hazardous Waste Remediation Supervisor, Region 1

FPM Group - Ben Cancemi - b.cancemi@fpm-group.com

The following parcel owner did not receive an ec:

David And Richard Cohen - Parcel Owner

Enclosure 1

Certification Instructions

I. Verification of Site Details (Box 1 and Box 2):

Answer the three questions in the Verification of Site Details Section. The Owner and/or Qualified Environmental Professional (QEP) may include handwritten changes and/or other supporting documentation, as necessary.

II. Certification of Institutional Controls/ Engineering Controls (IC/ECs)(Boxes 3, 4, and 5)

1.1.1. Review the listed IC/ECs, confirming that all existing controls are listed, and that all existing controls are still applicable. If there is a control that is no longer applicable the Owner / Remedial Party should petition the Department separately to request approval to remove the control.

2. In Box 5, complete certifications for all Plan components, as applicable, by checking the corresponding checkbox.

3. If you cannot certify "YES" for each Control listed in Box 3 & Box 4, sign and date the form in Box 5. Attach supporting documentation that explains why the **Certification** cannot be rendered, as well as a plan of proposed corrective measures, and an associated schedule for completing the corrective measures. Note that this **Certification** form must be submitted even if an IC or EC cannot be certified; however, the certification process will not be considered complete until corrective action is completed.

If the Department concurs with the explanation, the proposed corrective measures, and the proposed schedule, a letter authorizing the implementation of those corrective measures will be issued by the Department's Project Manager. Once the corrective measures are complete, a new Periodic Review Report (with IC/EC Certification) must be submitted within 45 days to the Department. If the Department has any questions or concerns regarding the PRR and/or completion of the IC/EC Certification, the Project Manager will contact you.

III. IC/EC Certification by Signature (Box 6 and Box 7):

If you certified "YES" for each Control, please complete and sign the IC/EC Certifications page as follows:

- For the Institutional Controls on the use of the property, the certification statement in Box 6 shall be completed and may be made by the property owner or designated representative.
- For the Engineering Controls, the certification statement in Box 7 must be completed by a Professional Engineer or Qualified Environmental Professional, as noted on the form.



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



Site Details

Box 1

Site No. **130155**

Site Name **Award Packaging Corp.**

Site Address: 625 South Street Zip Code: 11530

City/Town: Garden City

County: Nassau

Site Acreage: 2.109

Reporting Period: April 29, 2020 to April 29, 2021

YES NO

1. Is the information above correct?

☐ ☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐ ☐

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐ ☐

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☐ ☐

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

☐ ☐

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Commercial and Industrial

☐ ☐

7. Are all ICs in place and functioning as designed?

☐ ☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

Description of Institutional ControlsParcelOwnerInstitutional Control**44.77-45**

David and Richard Cohen

Ground Water Use Restriction
 Landuse Restriction
 Monitoring Plan
 Site Management Plan
 O&M Plan

IC/EC Plan

Limit land use to commercial and industrial uses. Prohibit the use of groundwater underlying the property without necessary treatment. Quarterly monitoring of groundwater.

44.77-46

David and Richard Cohen

Ground Water Use Restriction
 Landuse Restriction
 Monitoring Plan
 Site Management Plan
 O&M Plan
 IC/EC Plan

Limit land use to commercial and industrial uses. Prohibit the use of groundwater underlying the property without necessary treatment. Quarterly monitoring of groundwater.

Description of Engineering ControlsParcelEngineering Control**44.77-45**

Cover System
 Air Sparging/Soil Vapor Extraction
 Vapor Mitigation
 Monitoring Wells

Air sparge/soil vapor extraction system to remediate contaminated soil and groundwater. A site cover to prevent contact with remaining contamination and prevent leaching of contaminants into the groundwater.

44.77-46

Vapor Mitigation
 Cover System
 Air Sparging/Soil Vapor Extraction
 Monitoring Wells

Air sparge/soil vapor extraction system to remediate contaminated soil and groundwater. A site cover to prevent contact with remaining contamination and prevent leaching of contaminants into the groundwater.

Periodic Review Report (PRR) Certification Statements

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

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☐ ☐

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

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☐ ☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

**IC CERTIFICATIONS
SITE NO. 130155**

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

am certifying as _____ (Owner or Remedial Party)

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

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

Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I _____ at _____,
print name print business address

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

Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification

Stamp
(Required for PE)

Date

Enclosure 3
Periodic Review Report (PRR) General Guidance

- I. Executive Summary: (1/2-page or less)
 - A. Provide a brief summary of site, nature and extent of contamination, and remedial history.
 - B. Effectiveness of the Remedial Program - Provide overall conclusions regarding;
 - 1. progress made during the reporting period toward meeting the remedial objectives for the site
 - 2. the ultimate ability of the remedial program to achieve the remedial objectives for the site.
 - C. Compliance
 - 1. Identify any areas of non-compliance regarding the major elements of the Site Management Plan (SMP, i.e., the Institutional/Engineering Control (IC/EC) Plan, the Monitoring Plan, and the Operation & Maintenance (O&M) Plan).
 - 2. Propose steps to be taken and a schedule to correct any areas of non-compliance.
 - D. Recommendations
 - 1. recommend whether any changes to the SMP are needed
 - 2. recommend any changes to the frequency for submittal of PRRs (increase, decrease)
 - 3. recommend whether the requirements for discontinuing site management have been met.
- II. Site Overview (one page or less)
 - A. Describe the site location, boundaries (figure), significant features, surrounding area, and the nature and extent of contamination prior to site remediation.
 - B. Describe the chronology of the main features of the remedial program for the site, the components of the selected remedy, cleanup goals, site closure criteria, and any significant changes to the selected remedy that have been made since remedy selection.
- III. Evaluate Remedy Performance, Effectiveness, and Protectiveness
Using tables, graphs, charts and bulleted text to the extent practicable, describe the effectiveness of the remedy in achieving the remedial goals for the site. Base findings, recommendations, and conclusions on objective data. Evaluations and should be presented simply and concisely.
- IV. IC/EC Plan Compliance Report (if applicable)
 - A. IC/EC Requirements and Compliance
 - 1. Describe each control, its objective, and how performance of the control is evaluated.
 - 2. Summarize the status of each goal (whether it is fully in place and its effectiveness).
 - 3. Corrective Measures: describe steps proposed to address any deficiencies in ICECs.
 - 4. Conclusions and recommendations for changes.
 - B. IC/EC Certification
 - 1. The certification must be complete (even if there are IC/EC deficiencies), and certified by the appropriate party as set forth in a Department-approved certification form(s).
- V. Monitoring Plan Compliance Report (if applicable)
 - A. Components of the Monitoring Plan (tabular presentations preferred) - Describe the requirements of the monitoring plan by media (i.e., soil, groundwater, sediment, etc.) and by any remedial technologies being used at the site.
 - B. Summary of Monitoring Completed During Reporting Period - Describe the monitoring tasks actually completed during this PRR reporting period. Tables and/or figures should be used to show all data.
 - C. Comparisons with Remedial Objectives - Compare the results of all monitoring with the remedial objectives for the site. Include trend analyses where possible.
 - D. Monitoring Deficiencies - Describe any ways in which monitoring did not fully comply with the monitoring plan.
 - E. Conclusions and Recommendations for Changes - Provide overall conclusions regarding the monitoring completed and the resulting evaluations regarding remedial effectiveness.
- VI. Operation & Maintenance (O&M) Plan Compliance Report (if applicable)
 - A. Components of O&M Plan - Describe the requirements of the O&M plan including required activities, frequencies, recordkeeping, etc.
 - B. Summary of O&M Completed During Reporting Period - Describe the O&M tasks actually completed during this PRR reporting period.
 - C. Evaluation of Remedial Systems - Based upon the results of the O&M activities completed, evaluated

the ability of each component of the remedy subject to O&M requirements to perform as designed/expected.

- D. O&M Deficiencies - Identify any deficiencies in complying with the O&M plan during this PRR reporting period.
- E. Conclusions and Recommendations for Improvements - Provide an overall conclusion regarding O&M for the site and identify any suggested improvements requiring changes in the O&M Plan.

VII. Overall PRR Conclusions and Recommendations

- A. Compliance with SMP - For each component of the SMP (i.e., IC/EC, monitoring, O&M), summarize;
 - 1. whether all requirements of each plan were met during the reporting period
 - 2. any requirements not met
 - 3. proposed plans and a schedule for coming into full compliance.
- B. Performance and Effectiveness of the Remedy - Based upon your evaluation of the components of the SMP, form conclusions about the performance of each component and the ability of the remedy to achieve the remedial objectives for the site.
- C. Future PRR Submittals
 - 1. Recommend, with supporting justification, whether the frequency of the submittal of PRRs should be changed (either increased or decreased).
 - 2. If the requirements for site closure have been achieved, contact the Departments Project Manager for the site to determine what, if any, additional documentation is needed to support a decision to discontinue site management.

VIII. Additional Guidance

Additional guidance regarding the preparation and submittal of an acceptable PRR can be obtained from the Departments Project Manager for the site.

Cancemi, Ben

Subject: FW: Award Packaging Site # 1305155

From: Jones, Joseph (DEC) <joseph.jones@dec.ny.gov>

Sent: Tuesday, June 15, 2021 10:07 AM

To: Cancemi, Ben <b.cancemi@fpm-group.com>

Subject: Re: Award Packaging Site # 1305155

Ben

You are granted a two month extension

From: Cancemi, Ben <b.cancemi@fpm-group.com>

Sent: Wednesday, June 2, 2021 7:39 AM

To: Jones, Joseph (DEC) <joseph.jones@dec.ny.gov>

Subject: Award Packaging Site # 1305155

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

Joe,

We would like to request an extension to submit the PRR for the above-referenced by June 25th. Please confirm this extension is acceptable to the Department.

Thank you

Ben T. Cancemi, PG, CPG
Department Manager
Vice President

FPMgroup

An **Olgoonik** Company

640 Johnson Avenue, Suite 101

Bohemia, NY 11716

Tel (631) 737-6200 ext. 509

Fax (631) 737-2410

Email b.cancemi@fpm-group.com

This e-mail including any attached files, may contain confidential and privileged information for the sole use of the intended recipients. Any review, use, distribution or disclosure by other(s) is strictly prohibited. If you are not the intended recipient (or authorized to receive information for the intended recipient), please contact the sender by reply e-mail and delete all copies of this message. Please note that any views or opinion presented in this e-mail are solely those of the author and do not necessarily represent those of Olgoonik.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A

625 Broadway, 12th Floor, Albany, NY 12233-7015

P: (518) 402-9625 | F: (518) 402-9627

www.dec.ny.gov

March 6, 2023

Via electronic transmittal only

Rococo Associates, Inc.
Jill S. Lefkowitz
222 Wall Street
Suite 162
Huntington, NY 11743

Re: Award Packaging Corp., Site No.: 130155
Proposed 2023 SVI Sampling Event

Dear Jill S. Lefkowitz (as the Certifying Party):

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have received and reviewed the July 2021 Periodic Review (PRR) for the Award Packaging Corp. This PRR states that "The EC (SVE and AS system) remains present and is no longer in operation as the remedial objectives for groundwater and SVI have been achieved and permission to shut down these systems have been approved by the NYSDEC". The Department has not been able to substantiate this claim. Inquiries directed to the FPM Group project manager (Mr. Cancemi) did not produce confirmation of this claim.

Because the AS/SVE system was shut down without approval, the Periodic Review Report (PRR) cannot be approved, and it is necessary to conduct indoor air and subslab Soil Vapor Intrusion (SVI) sampling at the site to assess whether the levels of VOCs in indoor air and sub-slab soil vapor have rebounded after the AS/SVE system shutdown. This sampling is required as a prerequisite to making a final AS/SVE shutdown determination.

To make this determination, the Department requires a more comprehensive sampling plan than what was proposed by FPM and has provided a revised sampling map (enclosed) to be carried out. The sampling should be conducted in accordance with the previously approved October 2019 SVI workplan.

Although the usual optimum sampling season for SVI sampling is November 1 thru March 31, in this instance it would be acceptable to accomplish the required sampling as late as April 15, 2023. A revised PRR must be submitted within 30 days of the completion of sampling. Additional instructions for minor revisions to the PRR will be provided to Mr. Cancemi (FPM) under separate cover.



Department of
Environmental
Conservation

Please inform the NYSDEC within one week of your intent to perform this work and inform the NYSDEC at least seven days prior to field work. If you have any questions, please contact me at this e-mail address or by telephone at 518-402-9621.

Sincerely,

A handwritten signature in blue ink, appearing to read "Joseph G. Jones", with a long horizontal flourish extending to the right.

Joseph Jones
Project Manager
Remedial Section A

Att: Sampling Locations Figure

Ec: Joseph Jones, NYSDEC
Bob Corcoran, NYSDEC
Girish Desai, RHWRE
Renata Ockerby, NYSDOH
Charlotte Bethoney, NYSDOH
Ben Cancemi, FPM Group

VIA EMAIL

June 14, 2023

Mr. Joseph Jones
Project Manager
New York State Department of Environmental Conservation
625 Broadway, 11th Floor
Albany, NY 12233-7015

Re: **Soil Vapor Intrusion Sampling Data Submittal**
Award Packaging Corp. NYSDEC Site #130155
625 South Street, Garden City, New York
FPM File No. 963-23-16

Dear Joe,

FPM Group, Ltd. (FPM) is hereby transmitting the results of soil vapor intrusion (SVI) sampling conducted on April 12, 2023 at the above-referenced site. The SVI sampling was conducted in accordance with our discussions, email correspondence, and the January 30, 2020 SVI Work Plan approved by the New York State Department of Environmental Conservation (NYSDEC). A site plan showing the SVI sampling locations is attached as Figure 1.

This transmittal includes a copy of the laboratory data report, the Data Usability Summary Report (DUSR, Attachment A), a building inventory (Attachment B), a summary data table, and a site plan showing the sampling locations. We have also included a discussion of the procedures and results and our recommendations. The laboratory data Electronic Data Deliverable (EDD) is also being prepared and will shortly be uploaded to the NYSDEC EQUIS data management system.

Soil Vapor Intrusion Sampling Procedures

Indoor air samples were collected from the former Award Packaging tenant space (IA-5 and IA-55 duplicate), and the adjoining electrical contractor tenant space (IA-1) at a height of approximately four feet above the slab. The ambient air sample was collected outside of the building in a similar manner as the indoor air samples. The sub-slab soil vapor samples were collected from four locations within the former Award Packaging tenant space (SV-2 through SV-5) and one location in the adjoining electrical contractor tenant space (SV-1). The temporary sub-slab soil vapor ports were installed approximately one week prior to the sampling event in accordance with New York State Department of Health (NYSDOH) Guidance. It is noted that the soil vapor extraction (SVE) system was not in operation at the time of the testing and has been offline since 2020.

The indoor air and sub-slab soil vapor samples were co-located in the adjoining electrical contractor tenant space. In the former Award Packaging tenant space the indoor air canister was located in the warehouse in proximity to SV-5. All samples were collected in laboratory-provided Summa canisters equipped with flow controllers in accordance with NYSDOH guidance. The flow controllers were set for an approximate eight-hour period, comparable to typical building occupancy. The filled indoor and ambient air sample canisters were managed under chain-of-custody procedures and transmitted to a

NYSDOH-certified lab for analysis of volatile organic compounds (VOCs) using the TO-15 low level method. The sub-slab soil vapor samples were analyzed for standard level VOCs by Method TO-15.

A building inventory form was completed during the sampling event to document the building construction, HVAC system operations, and the potential presence of VOC sources in the building. No obvious sources of VOC were identified in the former Award Packaging tenant space. However, it was noted that the building is utilized to store various plastic, silicone and fabric products that are likely manufactured or cleaned with solvents. Several VOC-containing substances were noted in the adjoining electrical contractor tenant space where storage of electrical equipment and maintenance of commercial vehicles are conducted. These items included a solvent-based parts cleaner, motor oils, hydraulic oils, adhesives, and various spray solvents. Chlorinated and non-chlorinated solvents were identified during the chemical inventory. The completed building inventory form is included in Attachment C.

Quality assurance/quality control (QA/QC) procedures were implemented, including use of a chain of custody to document the sequence of sample possession and collection and analysis of a duplicate sample. In addition, the laboratory utilized internal QA/QC procedures and samples to assess the accuracy and precision of the laboratory data.

Following receipt of the chemical analytical data, the data package and associated QA/QC sample results were evaluated and a data usability summary report (DUSR) was prepared. The DUSR is included in Attachment A and no significant data quality issues were identified. The data are anticipated to be of sufficient quality for their intended use.

SVI Sample Results

The data from the current sampling event are summarized in Table 1 and the indoor air and sub-slab soil vapor sample results were evaluated in accordance with NYSDOH Guidance (October 2006) and the May 2017 matrices. Our review of these data with respect to the NYSDOH guidance indicates the following:

Former Award Packaging Tenant Space

- Several VOCs for which the NYSDOH provides guidance were detected in the sub-slab soil vapor and/or indoor air, including 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethene (1,1-DCE), carbon tetrachloride (CT), cis-1,2 dichloroethane (c1,2-DCE), tetrachloroethene (PCE), and trichloroethene (TCE). Several of these VOCs were also noted in the outdoor air sample. A response of "no further action" was noted for all VOCs for which the NYSDOH provides guidance, except for PCE, which is present in the sub-slab soil vapor at SV-3 at a concentration for which "mitigation" is indicated. The low indoor air concentrations of PCE (ranging from 1.71 to 1.77 ug/m³) in the primary and duplicate samples when compared with the ambient air concentration (4.87 ug/m³) do not suggest that SVI is occurring;
- Several VOCs for which there is no NYSDOH guidance were noted in the indoor air and were generally within the range of observed concentrations for indoor air for commercial buildings. Several of the associated co-located sub-slab soil vapor sample concentrations of these VOCs were noted to be significantly less than the indoor air, indicating that these VOCs may be associated with warehoused inventory in the building; and
- Several VOCs were noted in the outdoor ambient sample, including PCE, TCE, c1,2-DCE, and CT. CT was noted at very similar concentrations in both the indoor and outdoor air samples, suggesting that this is an ambient condition in the site vicinity. These results were considered when evaluating the indoor air data.

Adjoining Electrical Contractor Tenant Space

- In the adjoining electrical contractor tenant space the VOCs CT, c1,2-DCE, PCE and TCE were detected in the sub-slab soil vapor and/or indoor samples. These compounds were also noted in the outdoor air sample. It was noted that petroleum products, adhesives, and chlorinated and non-chlorinated solvents for equipment maintenance, some of which include PCE, are in use and/or stored in the tenant space. The indoor air appears to be affected by these materials, as evidenced by the higher concentrations of petroleum VOCs, solvent VOCs, alcohols, and other VOCs in the indoor air than in the sub-slab soil vapor or outdoor air. A review of the c1,2 DCE and TCE data indicates a response of "no further action". A review of the PCE data indicates "mitigation". However, the ongoing use of PCE-containing solvents for maintenance activities, and the presence of other business-related VOCs in the indoor air, indicate that the indoor air PCE concentrations are likely due to chemical use in this tenant space and not due to SVI; and
- As noted above, several VOCs for which there is no NYSDOH guidance were noted in the indoor air. These detections are likely related to chemical use in this space.

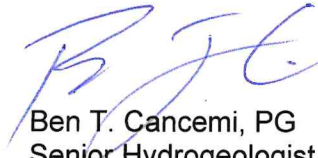
Conclusions and Recommendations

Based on the SVI testing results, we have the following conclusions:

- The sampling results for the former Award Packaging tenant space indicate that that "no further action" is recommended for all VOCs for which the NYSDOH provides guidance, with the exception of PCE. PCE was noted at the SVE-3 location at a concentration for which "mitigation" is recommended;
- The sampling results for the adjoining electrical contractor tenant space indicate that "no further action" is recommended for all VOCs for which NYSDOH provides guidance, with the exception of PCE. PCE was found at a level for which "mitigation" is the indicated response. However, the ongoing use of PCE-containing solvents for maintenance purposes, together with detections of several petroleum VOCs, solvent VOCs, alcohols, and other VOCs in indoor air at levels above the sub-slab soil vapor levels, indicate that the indoor air is affected by chemical use in this tenant space. The PCE concentrations detected in the indoor air are likely due to solvent use in this space and not due to SVI; and
- Based on the test results from the former Award Packaging space, the SVE system was placed back into service to address sub-slab PCE concentrations in proximity to SV-3. The area of impact appears to be limited and operation of the SVE system for this portion of the Award Packaging space is expected to address this condition. Monitoring of the SVE system going forward will be conducted in general accordance with the Site Management Plan and reported in the annual Periodic Review Report (PRR).

Following your review of the data transmittal, please provide written confirmation that you concur with our findings and recommendations. Feel free to contact me with any questions.

Very truly yours,



Ben T. Cancemi, PG
Senior Hydrogeologist
Department Manager

BTC:btc

Attachments

cc: Jill Lefkowitz

S:\Rococo Holding Corp\SVI Sampling 2023\Award Packaging SVI Sampling April 2023.docx

H:\ROCO\CO\FER\FIGURE 1.dwg, 6/8/2023 10:58:45 AM, AutoCAD PDF (High Quality Print).pc3

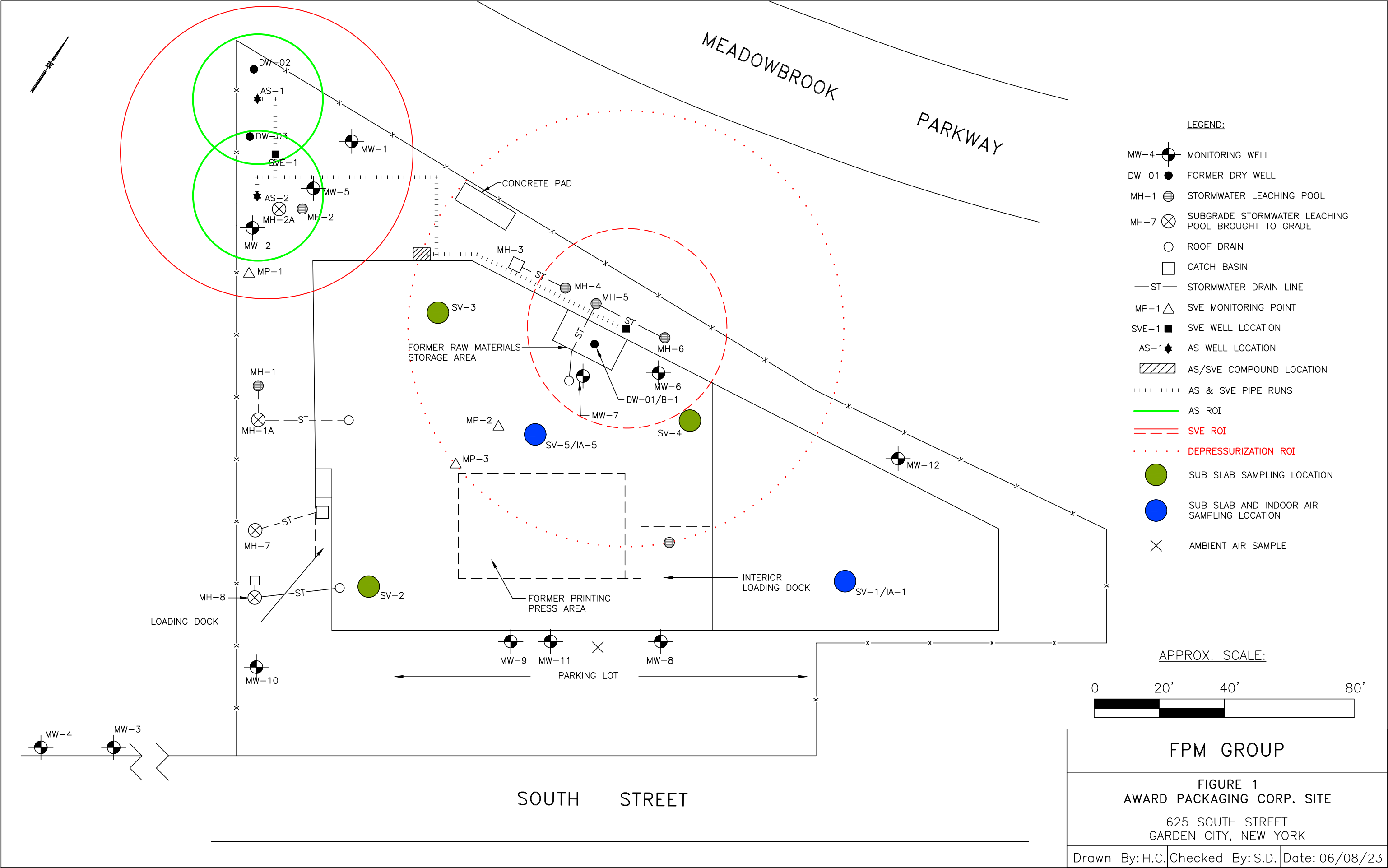


TABLE 1
AIR AND SUB-SOIL VAPOR CHEMICAL ANALYTICAL DATA
AWARD PACKAGING CORP. SITE # 130155
SOUTH STREET, GARDEN CITY, NEW YORK

Sample ID	SV-1	IA-1	SV-2	SV-3	SV-4	SV-5	IA-5	IA-55 (Duplicate of IA-5)	AMBIENT	Indoor Air Background Levels, Commercial*
Sample Location	Adjoining Tenant Space		Former Award Packaging Tenant Space							
Collection Date	4/12/2023	4/12/2023	4/12/2023	4/12/2023	4/12/2023	4/12/2023	4/12/2023	4/12/2023	4/12/2023	
Matrix	Sub-Slab Soil Vapor	Air	Sub-Slab Soil Vapor				Air	Air	Outdoor Air	
Volatile Organic Compounds By TO15										
1,1,1-Trichloroethane	< 1.00	< 1.00	12.8	161	< 1.00	36.8	< 1.00	< 1.00	< 1.00	2.6 - 33.0
1,1-Dichloroethane	< 1.00	< 1.00	< 1.00	1.61	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<0.4 - <0.8
1,1-Dichloroethene	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.44	< 0.20	< 0.20	< 0.20	<0.9 - <1.6
1,2,4-Trimethylbenzene	1.28	13.2	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.7 - 13.7
1,2-dichloropropane	< 1.00	< 1.00	1.58	< 1.00	< 1.00	< 1.00	9.37	9.01	< 1.00	<0.5 - <1.7
1,3,5-Trimethylbenzene	< 1.00	4.04	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<1.3 - 4.6
1,3-Butadiene	< 1.00	3.34	< 1.00	< 1.00	< 1.00	2.02	< 1.00	< 1.00	< 1.00	<2.3 - <7.5
2-Hexanone(MBK)	1.43	< 1.00	< 1.00	< 1.00	< 1.00	1.21	< 1.00	< 1.00	< 1.00	-
4-Ethyltoluene	1.47	14.5	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<1.5 - 5.9
4-Methyl-2-pentanone(MIBK)	< 1.00	< 1.00	< 1.00	< 1.00	2.67	11.5	< 1.00	< 1.00	< 1.00	<1.2 - 8.1
Acetone	16.5	102	19.9	6.2	37.7	52.2	33.9	32.8	7.45	32.4 - 120.2
Benzene	2.17	19.1	< 1.00	< 1.00	< 1.00	1.17	< 1.00	< 1.00	< 1.00	2.1 - 12.5
Carbon Disulfide	< 1.00	< 1.00	< 1.00	< 1.00	2.12	< 1.00	< 1.00	< 1.00	< 1.00	<0.8 - 6.4
Carbon Tetrachloride	< 0.20	0.42	< 0.20	< 0.20	0.3	< 0.20	0.48	0.47	0.41	<0.8 - 0.7
Chloroform	< 1.00	4.71	1.27	1.06	< 1.00	< 1.00	8.69	8.54	7.03	<0.4 - 1.4
Chloromethane	< 1.00	1.25	< 1.00	< 1.00	1.47	< 1.00	1.42	1.46	1.1	2.1 - 4.4
Cis-1,2-Dichloroethene	1.8	< 0.20	< 0.20	0.36	< 0.20	0.95	0.26	< 0.20	1.49	<0.8 - <2.0
Dichlorodifluoromethane	2.34	2.26	1.9	2.44	2.17	2.25	2.48	2.39	2.17	4.8 - 32.9
Ethanol	5.2	135	16.3	6.7	77.6	9.3	123	123	10.6	26.0 - 290.0
Ethyl acetate	< 1.00	2.15	< 1.00	< 1.00	< 1.00	< 1.00	1.75	1.81	< 1.00	<1.0 - 9.5
Ethylbenzene	1.94	16.3	< 1.00	< 1.00	< 1.00	1.14	1.51	1.45	< 1.00	<1.6 - 7.6
Heptane	2.47	25.6	10.4	1.86	2.08	2.78	54.9	53.2	< 1.00	<1.3 - 3.1
Hexane	4.26	37.7	1.93	< 1.00	1.55	< 1.00	11.2	11.1	< 1.00	1.6 - 15.2
Isopropylalcohol	1.49	11.1	2.0	1.38	3.51	2.65	13.4	12.6	1.62	-
Isopropylbenzene	< 1.00	1.4	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-
m,p-Xylene	6.03	44.3	1.27	1.03	1.6	2.86	4.26	3.96	< 1.00	4.1 - 28.5
Methyl Ethyl Ketone	4.19	5.72	2.01	< 1.00	2.07	6.37	7.34	7.22	< 1.00	3.3 - 13.5
Methylene Chloride	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	9.89	9.79	< 3.00	<1.7 - 16.0
o-Xylene	1.84	16.3	< 1.00	< 1.00	< 1.00	1.11	1.78	1.7	< 1.00	<2.4 - 11.2
Propylene	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	8.91	< 1.00	< 1.00	< 1.00	-
Styrene	< 1.00	1.01	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	<1.6 - 4.3
Tetrachloroethene	115	53.8	82.7	1,840	3.18	193	1.71	1.77	4.87	<1.9 - 25.4
Tetrahydrofuran	< 1.00	3.33	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.21	< 1.00	-
Toluene	9	82.9	3.75	1.86	4.22	4.48	19.7	18.6	< 1.00	10.7 - 70.8
Trichloroethene	5.19	< 0.20	< 0.20	6.61	< 0.20	5.42	0.32	0.25	0.77	<1.2 - 6.5
Trichlorofluoromethane	1.57	1.22	1.13	1.57	1.09	1.54	1.29	1.22	1.08	<3.7 - 54.0

Notes:

< = Not detected at the noted Method Detection Limit.

- = No background level established.

NYSDOH Guidance is provided for shaded compounds.

Detections noted by **bold type**.

* = USEPA 2001 Building Assessment and Survey Evaluation of public and commercial office buildings.

ATTACHMENT A

SVI LABORATORY REPORT AND DATA USABILITY SUMMARY REPORT



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

FPM Group
AWARD PACKAGING

GCN84181

Ver 1

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Thursday, June 01, 2023

Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Project ID: AWARD PACKAGING
SDG ID: GCN84181
Sample ID#s: CN84181 - CN84189

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller

Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
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**NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE**

Client: FPM Group
Project: AWARD PACKAGING
Laboratory Project: GCN84181



Environmental Laboratories, Inc.
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NY Analytical Services Protocol Format

June 01, 2023

SDG I.D.: GCN84181

FPM Group AWARD PACKAGING

Methodology Summary

Volatiles in Air

Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15, Second Edition, U. S. Environmental Protection Agency, January 1999.



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NY Analytical Services Protocol Format

June 01, 2023

SDG I.D.: GCN84181

FPM Group AWARD PACKAGING

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CN84181	Volatiles (TO15)	04/12/23	04/17/23	04/17/23	KCA	Y
CN84182	Volatiles (TO15)	04/12/23	04/17/23	04/17/23	KCA	Y
CN84183	Volatiles (TO15)	04/12/23	04/14/23	04/14/23	KCA	Y
CN84184	Volatiles (TO15)	04/12/23	04/17/23	04/17/23	KCA	Y
CN84185	Volatiles (TO15)	04/12/23	04/14/23	04/14/23	KCA	Y
CN84186	Volatiles (TO15)	04/12/23	04/17/23	04/17/23	KCA	Y
CN84187	Volatiles (TO15)	04/12/23	04/17/23	04/17/23	KCA	Y
CN84188	Volatiles (TO15)	04/12/23	04/14/23	04/14/23	KCA	Y
CN84189	Volatiles (TO15)	04/12/23	04/14/23	04/14/23	KCA	Y



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

June 01, 2023

SDG I.D.: GCN84181

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Sample Id Cross Reference

June 01, 2023

SDG I.D.: GCN84181

Project ID: AWARD PACKAGING

Client Id	Lab Id	Matrix
SV-1	CN84181	AIR
SV-3	CN84182	AIR
IA-1	CN84183	AIR
SV-4	CN84184	AIR
AMBIENT	CN84185	AIR
SV-5	CN84186	AIR
SV-2	CN84187	AIR
IA-5	CN84188	AIR
IA-55	CN84189	AIR



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Analysis Report

June 01, 2023

FOR: Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Sample Information

Matrix: AIR
Location Code: FPMGROUP
Rush Request: Standard
P.O.#:
Canister Id: 0678

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

04/12/23 13:46
04/14/23 15:34

Time

Project ID: AWARD PACKAGING
Client ID: SV-1

Laboratory Data

SDG ID: GCN84181
Phoenix ID: CN84181

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/17/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/17/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/17/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/17/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/17/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/17/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/17/23	KCA	1
1,2,4-Trimethylbenzene	0.261	0.204	0.204	1.28	1.00	1.00	04/17/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/17/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/17/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/17/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
2-Hexanone(MBK)	0.350	0.244	0.244	1.43	1.00	1.00	04/17/23	KCA	1
4-Ethyltoluene	0.300	0.204	0.204	1.47	1.00	1.00	04/17/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/17/23	KCA	1
Acetone	6.93	0.421	0.421	16.5	1.00	1.00	04/17/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/17/23	KCA	1
Benzene	0.680	0.313	0.313	2.17	1.00	1.00	04/17/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/17/23	KCA	1

Client ID: SV-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	04/17/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/17/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/17/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/17/23	KCA	1
Carbon Tetrachloride	ND	0.032	0.032	ND	0.20	0.20	04/17/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/17/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/17/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/17/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	04/17/23	KCA	1
Cis-1,2-Dichloroethene	0.454	0.051	0.051	1.80	0.20	0.20	04/17/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/17/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/17/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/17/23	KCA	1
Dichlorodifluoromethane	0.473	0.202	0.202	2.34	1.00	1.00	04/17/23	KCA	1
Ethanol	2.76	0.531	0.531	5.20	1.00	1.00	04/17/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
Ethylbenzene	0.447	0.230	0.230	1.94	1.00	1.00	04/17/23	KCA	1
Heptane	0.602	0.244	0.244	2.47	1.00	1.00	04/17/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/17/23	KCA	1
Hexane	1.21	0.284	0.284	4.26	1.00	1.00	04/17/23	KCA	1
Isopropylalcohol	0.605	0.407	0.407	1.49	1.00	1.00	04/17/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
m,p-Xylene	1.39	0.230	0.230	6.03	1.00	1.00	04/17/23	KCA	1
Methyl Ethyl Ketone	1.42	0.339	0.339	4.19	1.00	1.00	04/17/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	04/17/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
o-Xylene	0.425	0.230	0.230	1.84	1.00	1.00	04/17/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/17/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/17/23	KCA	1
Tetrachloroethene	16.9	0.037	0.037	115	0.25	0.25	04/17/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/17/23	KCA	1
Toluene	2.39	0.266	0.266	9.00	1.00	1.00	04/17/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/17/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/17/23	KCA	1
Trichloroethene	0.966	0.037	0.037	5.19	0.20	0.20	04/17/23	KCA	1
Trichlorofluoromethane	0.279	0.178	0.178	1.57	1.00	1.00	04/17/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/17/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/17/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	102	%	%	102	%	%	04/17/23	KCA	1
% IS-1,4-Difluorobenzene	101	%	%	101	%	%	04/17/23	KCA	1
% IS-Bromochloromethane	102	%	%	102	%	%	04/17/23	KCA	1
% IS-Chlorobenzene-d5	100	%	%	100	%	%	04/17/23	KCA	1

Client ID: SV-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

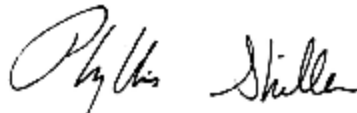
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 01, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 01, 2023

FOR: Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Sample Information

Matrix: AIR
Location Code: FPMGROUP
Rush Request: Standard
P.O.#:
Canister Id: 0719

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

04/12/23 15:04
04/14/23 15:34

Time

Project ID: AWARD PACKAGING
Client ID: SV-3

Laboratory Data

SDG ID: GCN84181
Phoenix ID: CN84182

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/15/23	KCA	1
1,1,1-Trichloroethane	29.5	0.183	0.183	161	1.00	1.00	04/15/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/15/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/15/23	KCA	1
1,1-Dichloroethane	0.397	0.247	0.247	1.61	1.00	1.00	04/15/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/15/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/15/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/15/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/15/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/15/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/15/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/15/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/15/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/15/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/15/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/15/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/15/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/15/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/15/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/15/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/15/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/15/23	KCA	1
Acetone	2.61	0.421	0.421	6.20	1.00	1.00	04/15/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/15/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/15/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/15/23	KCA	1

Client ID: SV-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	04/15/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/15/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/15/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/15/23	KCA	1
Carbon Tetrachloride	ND	0.032	0.032	ND	0.20	0.20	04/15/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/15/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/15/23	KCA	1
Chloroform	0.217	0.205	0.205	1.06	1.00	1.00	04/15/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	04/15/23	KCA	1
Cis-1,2-Dichloroethene	0.090	0.051	0.051	0.36	0.20	0.20	04/15/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/15/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/15/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/15/23	KCA	1
Dichlorodifluoromethane	0.494	0.202	0.202	2.44	1.00	1.00	04/15/23	KCA	1
Ethanol	3.56	0.531	0.531	6.70	1.00	1.00	04/15/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/15/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	04/15/23	KCA	1
Heptane	0.453	0.244	0.244	1.86	1.00	1.00	04/15/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/15/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	04/15/23	KCA	1
Isopropylalcohol	0.561	0.407	0.407	1.38	1.00	1.00	04/15/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/15/23	KCA	1
m,p-Xylene	0.237	0.230	0.230	1.03	1.00	1.00	04/15/23	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	04/15/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/15/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	04/15/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/15/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/15/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/15/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/15/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/15/23	KCA	1
Tetrachloroethene	272	5.16	5.16	1840	35.0	35.0	04/17/23	KCA	140
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/15/23	KCA	1
Toluene	0.493	0.266	0.266	1.86	1.00	1.00	04/15/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/15/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/15/23	KCA	1
Trichloroethene	1.23	0.037	0.037	6.61	0.20	0.20	04/15/23	KCA	1
Trichlorofluoromethane	0.280	0.178	0.178	1.57	1.00	1.00	04/15/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/15/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/15/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	102	%	%	102	%	%	04/15/23	KCA	1
% IS-1,4-Difluorobenzene	93	%	%	93	%	%	04/15/23	KCA	1
% IS-Bromochloromethane	94	%	%	94	%	%	04/15/23	KCA	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	04/15/23	KCA	1
% Bromofluorobenzene (5x)	102	%	%	102	%	%	04/15/23	KCA	5
% IS-1,4-Difluorobenzene (5x)	93	%	%	93	%	%	04/15/23	KCA	5
% IS-Bromochloromethane (5x)	94	%	%	94	%	%	04/15/23	KCA	5
% IS-Chlorobenzene-d5 (5x)	92	%	%	92	%	%	04/15/23	KCA	5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% Bromofluorobenzene (140x)	102	%	%	102	%	%	04/17/23	KCA	140
% IS-1,4-Difluorobenzene (140x)	98	%	%	98	%	%	04/17/23	KCA	140
% IS-Bromochloromethane (140x)	99	%	%	99	%	%	04/17/23	KCA	140
% IS-Chlorobenzene-d5 (140x)	96	%	%	96	%	%	04/17/23	KCA	140

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

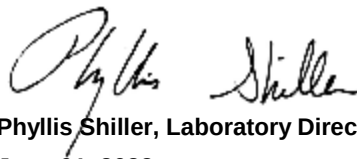
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Elevated reporting limits have been reported due to the presence of reported target compounds in the TO15 list above the calibration. Sample was run at an initial dilution.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 01, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 01, 2023

FOR: Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Sample Information

Matrix: AIR
Location Code: FPMGROUP
Rush Request: Standard
P.O.#:
Canister Id: 0657

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

04/12/23 13:44
04/14/23 15:34

Time

Project ID: AWARD PACKAGING
Client ID: IA-1

Laboratory Data

SDG ID: GCN84181
Phoenix ID: CN84183

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/14/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/14/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/14/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/14/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/14/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/14/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/14/23	KCA	1
1,2,4-Trimethylbenzene	2.68	0.204	0.204	13.2	1.00	1.00	04/14/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/14/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/14/23	KCA	1
1,3,5-Trimethylbenzene	0.823	0.204	0.204	4.04	1.00	1.00	04/14/23	KCA	1
1,3-Butadiene	1.51	0.452	0.452	3.34	1.00	1.00	04/14/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/14/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/14/23	KCA	1
4-Ethyltoluene	2.95	0.204	0.204	14.5	1.00	1.00	04/14/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/14/23	KCA	1
Acetone	43.0	E 0.421	0.421	102	1.00	1.00	04/14/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/14/23	KCA	1
Benzene	5.98	0.313	0.313	19.1	1.00	1.00	04/14/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/14/23	KCA	1

Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	04/14/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/14/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/14/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/14/23	KCA	1
Carbon Tetrachloride	0.067	0.032	0.032	0.42	0.20	0.20	04/14/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/14/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/14/23	KCA	1
Chloroform	0.966	0.205	0.205	4.71	1.00	1.00	04/14/23	KCA	1
Chloromethane	0.608	0.485	0.485	1.25	1.00	1.00	04/14/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/14/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/14/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/14/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/14/23	KCA	1
Dichlorodifluoromethane	0.458	0.202	0.202	2.26	1.00	1.00	04/14/23	KCA	1
Ethanol	71.6	E 0.531	0.531	135	1.00	1.00	04/14/23	KCA	1 1
Ethyl acetate	0.596	0.278	0.278	2.15	1.00	1.00	04/14/23	KCA	1 1
Ethylbenzene	3.75	0.230	0.230	16.3	1.00	1.00	04/14/23	KCA	1
Heptane	6.24	0.244	0.244	25.6	1.00	1.00	04/14/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/14/23	KCA	1
Hexane	10.7	0.284	0.284	37.7	1.00	1.00	04/14/23	KCA	1
Isopropylalcohol	4.53	0.407	0.407	11.1	1.00	1.00	04/14/23	KCA	1
Isopropylbenzene	0.284	0.204	0.204	1.40	1.00	1.00	04/14/23	KCA	1
m,p-Xylene	10.2	0.230	0.230	44.3	1.00	1.00	04/14/23	KCA	1
Methyl Ethyl Ketone	1.94	0.339	0.339	5.72	1.00	1.00	04/14/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/14/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	04/14/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1 1
o-Xylene	3.76	0.230	0.230	16.3	1.00	1.00	04/14/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/14/23	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1 1
Styrene	0.238	0.235	0.235	1.01	1.00	1.00	04/14/23	KCA	1
Tetrachloroethene	7.94	0.037	0.037	53.8	0.25	0.25	04/14/23	KCA	1
Tetrahydrofuran	1.13	0.339	0.339	3.33	1.00	1.00	04/14/23	KCA	1 1
Toluene	22.0	0.266	0.266	82.9	1.00	1.00	04/14/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/14/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/14/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	04/14/23	KCA	1
Trichlorofluoromethane	0.218	0.178	0.178	1.22	1.00	1.00	04/14/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/14/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/14/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	99	%	%	99	%	%	04/14/23	KCA	1
% IS-1,4-Difluorobenzene	99	%	%	99	%	%	04/14/23	KCA	1
% IS-Bromochloromethane	96	%	%	96	%	%	04/14/23	KCA	1
% IS-Chlorobenzene-d5	101	%	%	101	%	%	04/14/23	KCA	1

Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 01, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 01, 2023

FOR: Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Sample Information

Matrix: AIR
Location Code: FPMGROUP
Rush Request: Standard
P.O.#:
Canister Id: 28605

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

04/12/23 15:15
04/14/23 15:34

Time

Project ID: AWARD PACKAGING
Client ID: SV-4

Laboratory Data

SDG ID: GCN84181
Phoenix ID: CN84184

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/17/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/17/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/17/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/17/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/17/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/17/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/17/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/17/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/17/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/17/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/17/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
4-Methyl-2-pentanone(MIBK)	0.651	0.244	0.244	2.67	1.00	1.00	04/17/23	KCA	1
Acetone	15.9	0.421	0.421	37.7	1.00	1.00	04/17/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/17/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/17/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/17/23	KCA	1

Client ID: SV-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	04/17/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/17/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/17/23	KCA	1
Carbon Disulfide	0.682	0.321	0.321	2.12	1.00	1.00	04/17/23	KCA	1
Carbon Tetrachloride	0.048	0.032	0.032	0.30	0.20	0.20	04/17/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/17/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/17/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/17/23	KCA	1
Chloromethane	0.714	0.485	0.485	1.47	1.00	1.00	04/17/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/17/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/17/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/17/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/17/23	KCA	1
Dichlorodifluoromethane	0.440	0.202	0.202	2.17	1.00	1.00	04/17/23	KCA	1
Ethanol	41.2	E 0.531	0.531	77.6	1.00	1.00	04/17/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	04/17/23	KCA	1
Heptane	0.509	0.244	0.244	2.08	1.00	1.00	04/17/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/17/23	KCA	1
Hexane	0.440	0.284	0.284	1.55	1.00	1.00	04/17/23	KCA	1
Isopropylalcohol	1.43	0.407	0.407	3.51	1.00	1.00	04/17/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
m,p-Xylene	0.368	0.230	0.230	1.60	1.00	1.00	04/17/23	KCA	1
Methyl Ethyl Ketone	0.703	0.339	0.339	2.07	1.00	1.00	04/17/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	04/17/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/17/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/17/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/17/23	KCA	1
Tetrachloroethene	0.469	0.037	0.037	3.18	0.25	0.25	04/17/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/17/23	KCA	1
Toluene	1.12	0.266	0.266	4.22	1.00	1.00	04/17/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/17/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/17/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	04/17/23	KCA	1
Trichlorofluoromethane	0.195	0.178	0.178	1.09	1.00	1.00	04/17/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/17/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/17/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	104	%	%	104	%	%	04/17/23	KCA	1
% IS-1,4-Difluorobenzene	98	%	%	98	%	%	04/17/23	KCA	1
% IS-Bromochloromethane	96	%	%	96	%	%	04/17/23	KCA	1
% IS-Chlorobenzene-d5	96	%	%	96	%	%	04/17/23	KCA	1

Client ID: SV-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 01, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
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Analysis Report

June 01, 2023

FOR: Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Sample Information

Matrix: AIR
Location Code: FPMGROUP
Rush Request: Standard
P.O.#:
Canister Id: 461

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

04/12/23 14:19
04/14/23 15:34

Time

Project ID: AWARD PACKAGING
Client ID: AMBIENT

Laboratory Data

SDG ID: GCN84181
Phoenix ID: CN84185

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/14/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/14/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/14/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/14/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/14/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/14/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/14/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/14/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/14/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/14/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/14/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/14/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/14/23	KCA	1
Acetone	3.14	0.421	0.421	7.45	1.00	1.00	04/14/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/14/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/14/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/14/23	KCA	1

Client ID: AMBIENT

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	04/14/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/14/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/14/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/14/23	KCA	1
Carbon Tetrachloride	0.066	0.032	0.032	0.41	0.20	0.20	04/14/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/14/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/14/23	KCA	1
Chloroform	1.44	0.205	0.205	7.03	1.00	1.00	04/14/23	KCA	1
Chloromethane	0.534	0.485	0.485	1.10	1.00	1.00	04/14/23	KCA	1
Cis-1,2-Dichloroethene	0.377	0.051	0.051	1.49	0.20	0.20	04/14/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/14/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/14/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/14/23	KCA	1
Dichlorodifluoromethane	0.439	0.202	0.202	2.17	1.00	1.00	04/14/23	KCA	1
Ethanol	5.62	0.531	0.531	10.6	1.00	1.00	04/14/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/14/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	04/14/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	04/14/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/14/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	04/14/23	KCA	1
Isopropylalcohol	0.660	0.407	0.407	1.62	1.00	1.00	04/14/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/14/23	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	04/14/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/14/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	04/14/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/14/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/14/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/14/23	KCA	1
Tetrachloroethene	0.718	0.037	0.037	4.87	0.25	0.25	04/14/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/14/23	KCA	1
Toluene	ND	0.266	0.266	ND	1.00	1.00	04/14/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/14/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/14/23	KCA	1
Trichloroethene	0.144	0.037	0.037	0.77	0.20	0.20	04/14/23	KCA	1
Trichlorofluoromethane	0.193	0.178	0.178	1.08	1.00	1.00	04/14/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/14/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/14/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	106	%	%	106	%	%	04/14/23	KCA	1
% IS-1,4-Difluorobenzene	103	%	%	103	%	%	04/14/23	KCA	1
% IS-Bromochloromethane	102	%	%	102	%	%	04/14/23	KCA	1
% IS-Chlorobenzene-d5	100	%	%	100	%	%	04/14/23	KCA	1

Client ID: AMBIENT

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

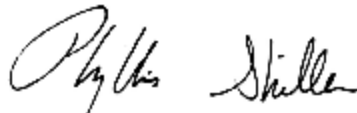
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 01, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 01, 2023

FOR: Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Sample Information

Matrix: AIR
Location Code: FPMGROUP
Rush Request: Standard
P.O.#:
Canister Id: 644

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

04/12/23 15:19
04/14/23 15:34

Time

Project ID: AWARD PACKAGING
Client ID: SV-5

Laboratory Data

SDG ID: GCN84181
Phoenix ID: CN84186

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/17/23	KCA	1
1,1,1-Trichloroethane	6.75	0.183	0.183	36.8	1.00	1.00	04/17/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/17/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/17/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/17/23	KCA	1
1,1-Dichloroethene	0.110	0.051	0.051	0.44	0.20	0.20	04/17/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/17/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/17/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/17/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
1,3-Butadiene	0.915	0.452	0.452	2.02	1.00	1.00	04/17/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
2-Hexanone(MBK)	0.296	0.244	0.244	1.21	1.00	1.00	04/17/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
4-Methyl-2-pentanone(MIBK)	2.81	0.244	0.244	11.5	1.00	1.00	04/17/23	KCA	1
Acetone	22.0	0.421	0.421	52.2	1.00	1.00	04/17/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/17/23	KCA	1
Benzene	0.367	0.313	0.313	1.17	1.00	1.00	04/17/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/17/23	KCA	1

Client ID: SV-5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	04/17/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/17/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/17/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/17/23	KCA	1
Carbon Tetrachloride	ND	0.032	0.032	ND	0.20	0.20	04/17/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/17/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/17/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	04/17/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	04/17/23	KCA	1
Cis-1,2-Dichloroethene	0.239	0.051	0.051	0.95	0.20	0.20	04/17/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/17/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/17/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/17/23	KCA	1
Dichlorodifluoromethane	0.456	0.202	0.202	2.25	1.00	1.00	04/17/23	KCA	1
Ethanol	4.94	0.531	0.531	9.30	1.00	1.00	04/17/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
Ethylbenzene	0.263	0.230	0.230	1.14	1.00	1.00	04/17/23	KCA	1
Heptane	0.678	0.244	0.244	2.78	1.00	1.00	04/17/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/17/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	04/17/23	KCA	1
Isopropylalcohol	1.08	0.407	0.407	2.65	1.00	1.00	04/17/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
m,p-Xylene	0.660	0.230	0.230	2.86	1.00	1.00	04/17/23	KCA	1
Methyl Ethyl Ketone	2.16	0.339	0.339	6.37	1.00	1.00	04/17/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	04/17/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
o-Xylene	0.256	0.230	0.230	1.11	1.00	1.00	04/17/23	KCA	1
Propylene	5.18	0.581	0.581	8.91	1.00	1.00	04/17/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/17/23	KCA	1
Tetrachloroethene	28.5	0.037	0.037	193	0.25	0.25	04/17/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/17/23	KCA	1
Toluene	1.19	0.266	0.266	4.48	1.00	1.00	04/17/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/17/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/17/23	KCA	1
Trichloroethene	1.01	0.037	0.037	5.42	0.20	0.20	04/17/23	KCA	1
Trichlorofluoromethane	0.275	0.178	0.178	1.54	1.00	1.00	04/17/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/17/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/17/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	106	%	%	106	%	%	04/17/23	KCA	1
% IS-1,4-Difluorobenzene	97	%	%	97	%	%	04/17/23	KCA	1
% IS-Bromochloromethane	95	%	%	95	%	%	04/17/23	KCA	1
% IS-Chlorobenzene-d5	94	%	%	94	%	%	04/17/23	KCA	1

Client ID: SV-5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

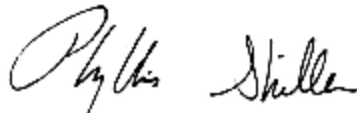
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 01, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 01, 2023

FOR: Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Sample Information

Matrix: AIR
Location Code: FPMGROUP
Rush Request: Standard
P.O.#:
Canister Id: 23349

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

04/12/23 14:51
04/14/23 15:34

Time

Project ID: AWARD PACKAGING
Client ID: SV-2

Laboratory Data

SDG ID: GCN84181
Phoenix ID: CN84187

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/17/23	KCA	1
1,1,1-Trichloroethane	2.35	0.183	0.183	12.8	1.00	1.00	04/17/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/17/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/17/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/17/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/17/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/17/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/17/23	KCA	1
1,2-dichloropropane	0.342	0.217	0.217	1.58	1.00	1.00	04/17/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/17/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/17/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/17/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/17/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/17/23	KCA	1
Acetone	8.37	0.421	0.421	19.9	1.00	1.00	04/17/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/17/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/17/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/17/23	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	04/17/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/17/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/17/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/17/23	KCA	1
Carbon Tetrachloride	ND	0.032	0.032	ND	0.20	0.20	04/17/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/17/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/17/23	KCA	1
Chloroform	0.260	0.205	0.205	1.27	1.00	1.00	04/17/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	04/17/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/17/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/17/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/17/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/17/23	KCA	1
Dichlorodifluoromethane	0.385	0.202	0.202	1.90	1.00	1.00	04/17/23	KCA	1
Ethanol	8.68	0.531	0.531	16.3	1.00	1.00	04/17/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	04/17/23	KCA	1
Heptane	2.55	0.244	0.244	10.4	1.00	1.00	04/17/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/17/23	KCA	1
Hexane	0.548	0.284	0.284	1.93	1.00	1.00	04/17/23	KCA	1
Isopropylalcohol	0.814	0.407	0.407	2.00	1.00	1.00	04/17/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/17/23	KCA	1
m,p-Xylene	0.293	0.230	0.230	1.27	1.00	1.00	04/17/23	KCA	1
Methyl Ethyl Ketone	0.683	0.339	0.339	2.01	1.00	1.00	04/17/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/17/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	04/17/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	04/17/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/17/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/17/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/17/23	KCA	1
Tetrachloroethene	12.2	0.037	0.037	82.7	0.25	0.25	04/17/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/17/23	KCA	1
Toluene	0.995	0.266	0.266	3.75	1.00	1.00	04/17/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/17/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/17/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	04/17/23	KCA	1
Trichlorofluoromethane	0.202	0.178	0.178	1.13	1.00	1.00	04/17/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/17/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/17/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	105	%	%	105	%	%	04/17/23	KCA	1
% IS-1,4-Difluorobenzene	98	%	%	98	%	%	04/17/23	KCA	1
% IS-Bromochloromethane	98	%	%	98	%	%	04/17/23	KCA	1
% IS-Chlorobenzene-d5	95	%	%	95	%	%	04/17/23	KCA	1

Client ID: SV-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

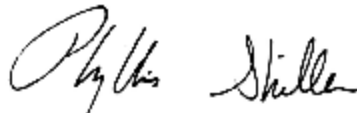
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QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

June 01, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 01, 2023

FOR: Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Sample Information

Matrix: AIR
Location Code: FPMGROUP
Rush Request: Standard
P.O.#:
Canister Id: 23332

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

04/12/23 15:25
04/14/23 15:34

Time

Project ID: AWARD PACKAGING
Client ID: IA-5

Laboratory Data

SDG ID: GCN84181
Phoenix ID: CN84188

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/14/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/14/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/14/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/14/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/14/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/14/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/14/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/14/23	KCA	1
1,2-dichloropropane	2.03	0.217	0.217	9.37	1.00	1.00	04/14/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/14/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/14/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/14/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/14/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/14/23	KCA	1
Acetone	14.3	0.421	0.421	33.9	1.00	1.00	04/14/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/14/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/14/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/14/23	KCA	1

Client ID: IA-5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	04/14/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/14/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/14/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/14/23	KCA	1
Carbon Tetrachloride	0.076	0.032	0.032	0.48	0.20	0.20	04/14/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/14/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/14/23	KCA	1
Chloroform	1.78	0.205	0.205	8.69	1.00	1.00	04/14/23	KCA	1
Chloromethane	0.689	0.485	0.485	1.42	1.00	1.00	04/14/23	KCA	1
Cis-1,2-Dichloroethene	0.066	0.051	0.051	0.26	0.20	0.20	04/14/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/14/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/14/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/14/23	KCA	1
Dichlorodifluoromethane	0.502	0.202	0.202	2.48	1.00	1.00	04/14/23	KCA	1
Ethanol	65.2	E 0.531	0.531	123	1.00	1.00	04/14/23	KCA	1
Ethyl acetate	0.485	0.278	0.278	1.75	1.00	1.00	04/14/23	KCA	1
Ethylbenzene	0.347	0.230	0.230	1.51	1.00	1.00	04/14/23	KCA	1
Heptane	13.4	0.244	0.244	54.9	1.00	1.00	04/14/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/14/23	KCA	1
Hexane	3.18	0.284	0.284	11.2	1.00	1.00	04/14/23	KCA	1
Isopropylalcohol	5.44	0.407	0.407	13.4	1.00	1.00	04/14/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
m,p-Xylene	0.981	0.230	0.230	4.26	1.00	1.00	04/14/23	KCA	1
Methyl Ethyl Ketone	2.49	0.339	0.339	7.34	1.00	1.00	04/14/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/14/23	KCA	1
Methylene Chloride	2.85	0.863	0.863	9.9	3.00	3.00	04/14/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1
o-Xylene	0.411	0.230	0.230	1.78	1.00	1.00	04/14/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/14/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/14/23	KCA	1
Tetrachloroethene	0.253	0.037	0.037	1.71	0.25	0.25	04/14/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	04/14/23	KCA	1
Toluene	5.22	0.266	0.266	19.7	1.00	1.00	04/14/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/14/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/14/23	KCA	1
Trichloroethene	0.059	0.037	0.037	0.32	0.20	0.20	04/14/23	KCA	1
Trichlorofluoromethane	0.229	0.178	0.178	1.29	1.00	1.00	04/14/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/14/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/14/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	106	%	%	106	%	%	04/14/23	KCA	1
% IS-1,4-Difluorobenzene	90	%	%	90	%	%	04/14/23	KCA	1
% IS-Bromochloromethane	90	%	%	90	%	%	04/14/23	KCA	1
% IS-Chlorobenzene-d5	88	%	%	88	%	%	04/14/23	KCA	1

Client ID: IA-5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 01, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

June 01, 2023

FOR: Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Sample Information

Matrix: AIR
Location Code: FPMGROUP
Rush Request: Standard
P.O.#:
Canister Id: 13644

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

04/12/23 15:26
04/14/23 15:34

Time

Project ID: AWARD PACKAGING
Client ID: IA-55

Laboratory Data

SDG ID: GCN84181
Phoenix ID: CN84189

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/14/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/14/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	04/14/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	04/14/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/14/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/14/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	04/14/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	04/14/23	KCA	1
1,2-dichloropropane	1.95	0.217	0.217	9.01	1.00	1.00	04/14/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	04/14/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	04/14/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	04/14/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	04/14/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	04/14/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	04/14/23	KCA	1
Acetone	13.8	0.421	0.421	32.8	1.00	1.00	04/14/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	04/14/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	04/14/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	04/14/23	KCA	1

Client ID: IA-55

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Bromodichloromethane	ND	0.149	0.149	ND	1.00	1.00	04/14/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	04/14/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	04/14/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	04/14/23	KCA	1
Carbon Tetrachloride	0.075	0.032	0.032	0.47	0.20	0.20	04/14/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	04/14/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	04/14/23	KCA	1
Chloroform	1.75	0.205	0.205	8.54	1.00	1.00	04/14/23	KCA	1
Chloromethane	0.706	0.485	0.485	1.46	1.00	1.00	04/14/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	04/14/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/14/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	04/14/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	04/14/23	KCA	1
Dichlorodifluoromethane	0.483	0.202	0.202	2.39	1.00	1.00	04/14/23	KCA	1
Ethanol	65.3	E 0.531	0.531	123	1.00	1.00	04/14/23	KCA	1 1
Ethyl acetate	0.502	0.278	0.278	1.81	1.00	1.00	04/14/23	KCA	1 1
Ethylbenzene	0.334	0.230	0.230	1.45	1.00	1.00	04/14/23	KCA	1
Heptane	13.0	0.244	0.244	53.2	1.00	1.00	04/14/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	04/14/23	KCA	1
Hexane	3.14	0.284	0.284	11.1	1.00	1.00	04/14/23	KCA	1
Isopropylalcohol	5.14	0.407	0.407	12.6	1.00	1.00	04/14/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	04/14/23	KCA	1
m,p-Xylene	0.913	0.230	0.230	3.96	1.00	1.00	04/14/23	KCA	1
Methyl Ethyl Ketone	2.45	0.339	0.339	7.22	1.00	1.00	04/14/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	04/14/23	KCA	1
Methylene Chloride	2.82	0.863	0.863	9.8	3.00	3.00	04/14/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1 1
o-Xylene	0.391	0.230	0.230	1.70	1.00	1.00	04/14/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	04/14/23	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	04/14/23	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	04/14/23	KCA	1
Tetrachloroethene	0.261	0.037	0.037	1.77	0.25	0.25	04/14/23	KCA	1
Tetrahydrofuran	0.411	0.339	0.339	1.21	1.00	1.00	04/14/23	KCA	1 1
Toluene	4.94	0.266	0.266	18.6	1.00	1.00	04/14/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	04/14/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	04/14/23	KCA	1
Trichloroethene	0.046	0.037	0.037	0.25	0.20	0.20	04/14/23	KCA	1
Trichlorofluoromethane	0.218	0.178	0.178	1.22	1.00	1.00	04/14/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	04/14/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	04/14/23	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	04/14/23	KCA	1
% IS-1,4-Difluorobenzene	92	%	%	92	%	%	04/14/23	KCA	1
% IS-Bromochloromethane	92	%	%	92	%	%	04/14/23	KCA	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	04/14/23	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

E = Estimated value quantitated above calibration range for this compound.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.



Phyllis Shiller, Laboratory Director

June 01, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



Canister Sampling Information

June 01, 2023

FOR: Attn: Mr John Bukoski, PG
FPM Group
640 Johnson Avenue, Suite 101
Bohemia, NY 11716

Location Code: FPMGROUP

SDG I.D.: GCN84181

Project ID: AWARD PACKAGING

Client Id	Lab Id	Canister		Reg. Id	Chk Out Date	Laboratory					Field			
		Id	Type			Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
SV-1	CN84181	0678	6.0L	10565	04/08/23	-30	-10	11.3	11.5	1.8	-30	-9	04/12/23 07:24	04/12/23 13:46
SV-3	CN84182	0719	6.0L	5041	04/08/23	-30	-9	10.7	10.6	0.9	-30	-9	04/12/23 08:23	04/12/23 15:04
IA-1	CN84183	0657	6.0L	10573	04/08/23	-30	-10	11.5	11.9	3.4	-30	-9	04/12/23 07:25	04/12/23 13:44
SV-4	CN84184	28605	6.0L	10697	04/08/23	-30	-10	11.1	11.2	0.9	-30	-1	04/12/23 08:28	04/12/23 15:15
AMBIENT	CN84185	461	6.0L	10682	04/08/23	-30	-10	10.6	10.8	1.9	-30	-9	04/12/23 07:46	04/12/23 14:19
SV-5	CN84186	644	6.0L	10689	04/08/23	-30	-9	11	11.4	3.6	-27	-6	04/12/23 08:33	04/12/23 15:19
SV-2	CN84187	23349	6.0L	5352	04/08/23	-30	-9	11.3	11.7	3.5	-30	-9	04/12/23 08:15	04/12/23 14:51
IA-5	CN84188	23332	6.0L	10580	04/08/23	-30	-6	23	25.7	11.1	-29	-6	04/12/23 08:35	04/12/23 15:23
IA-55	CN84189	13644	6.0L	10580	04/08/23	-30	-6				-29	-6	04/12/23 08:38	04/12/23 15:23



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



QA/QC Report

June 01, 2023

QA/QC Data

SDG I.D.: GCN84181

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 672894 (ppbv), QC Sample No: CN82795 (CN84182, CN84183, CN84185, CN84188, CN84189)												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.055	ND	0.38	96	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.500	ND	2.73	105	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.031	ND	0.21	102	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.033	ND	0.18	103	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.450	ND	1.82	105	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.500	ND	1.98	113	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.280	ND	2.08	115	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.050	ND	0.38	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.500	ND	3.00	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.050	ND	0.20	111	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.061	ND	0.28	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.500	ND	3.49	107	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46	102	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.043	ND	0.10	106	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.500	ND	3.00	104	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.043	ND	0.26	101	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.160	ND	0.58	105	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.500	ND	2.05	118	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.500	ND	2.46	104	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.500	ND	2.74	100	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.500	ND	2.05	115	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	1.00	ND	2.37	114	719	693	303	292	3.7	70 - 130	25
Acrylonitrile	ND	0.500	ND	1.08	116	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.041	ND	0.13	100	0.28	0.30	0.089	0.094	NC	70 - 130	25
Benzyl chloride	ND	0.048	ND	0.25	109	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.037	ND	0.25	105	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.500	ND	5.17	95	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.500	ND	1.94	102	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.500	ND	1.56	117	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.008	ND	0.05	101	0.43	0.41	0.068	0.066	3.0	70 - 130	25
Chlorobenzene	ND	0.500	ND	2.30	99	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.500	ND	1.32	99	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.051	ND	0.25	105	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.500	ND	1.03	111	1.16	1.16	0.561	0.562	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.500	ND	1.98	104	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.150	ND	0.68	104	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.500	ND	1.72	99	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.500	ND	4.26	101	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.500	ND	2.47	107	ND	ND	ND	ND	NC	70 - 130	25
Ethanol	ND	0.500	ND	0.94	151	22.6	22.8	12.0	12.1	0.8	70 - 130	25

QA/QC Data

SDG I.D.: GCN84181

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Ethyl acetate	ND	0.500	ND	1.80	79	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.250	ND	1.08	98	ND	ND	ND	ND	NC	70 - 130	25
Heptane	ND	0.500	ND	2.05	113	ND	ND	ND	ND	NC	70 - 130	25
Hexachlorobutadiene	ND	0.035	ND	0.37	115	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.500	ND	1.76	107	6.45	6.38	1.83	1.81	NC	70 - 130	25
Isopropylalcohol	ND	0.500	ND	1.23	115	668 E	658	272 E	268	1.5	70 - 130	25
Isopropylbenzene	ND	0.500	ND	2.46	101	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	1.00	ND	4.34	101	ND	ND	ND	ND	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.500	ND	1.47	123	ND	ND	ND	ND	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.500	ND	1.80	106	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.500	ND	1.74	118	2.80	2.73	0.807	0.785	NC	70 - 130	25
n-Butylbenzene	ND	0.500	ND	2.74	102	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.500	ND	2.17	97	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.500	ND	0.86	114	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.500	ND	2.74	102	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.500	ND	2.13	101	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.093	ND	0.63	98	ND	ND	ND	ND	NC	70 - 130	25
Tetrahydrofuran	ND	0.500	ND	1.47	112	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.500	ND	1.88	103	9.7	9.42	2.57	2.50	2.8	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.500	ND	1.98	110	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.150	ND	0.68	103	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	102	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.500	ND	2.81	115	ND	ND	ND	ND	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.500	ND	3.83	114	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.043	ND	0.11	106	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	103	%	103	%	97	103	106	103	106	NC	70 - 130	25
% IS-1,4-Difluorobenzene	102	%	102	%	98	102	104	102	104	NC	60 - 140	25
% IS-Bromochloromethane	99	%	99	%	96	101	101	101	101	NC	60 - 140	25
% IS-Chlorobenzene-d5	100	%	100	%	104	101	100	101	100	NC	60 - 140	25

QA/QC Batch 673255 (ppbv), QC Sample No: CN84179 (CN84181, CN84182 (140X))

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	107	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	100	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	102	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	99	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	103	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	111	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	100	57.0	56.0	11.6	11.4	1.7	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	96	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	100	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	100	11.9	11.5	2.42	2.35	2.9	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	99	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	99	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	99	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	94	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	98	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	100	39.5	38.7	8.04	7.88	2.0	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	107	1.58	1.60	0.288	0.291	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCN84181

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	96	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	90	38.2	37.3	16.1	15.7	2.5	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	98	4.15	4.15	1.30	1.30	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	91	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	94	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	106	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	105	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	95	0.36	0.36	0.057	0.057	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	100	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	93	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	101	1.88	1.90	0.385	0.389	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	97	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	99	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	97	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	99	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	105	2.37	2.34	0.480	0.473	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	121	6.59	6.53	3.50	3.47	0.9	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	77	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	100	22.1	22.0	5.10	5.08	0.4	70 - 130	25
Heptane	ND	0.240	ND	0.98	94	13.5	13.4	3.30	3.27	0.9	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	97	12.6	12.5	3.57	3.54	0.8	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	92	2.10	2.03	0.856	0.826	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	108	10.4	10.3	2.12	2.09	1.4	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	102	97.6	96.3	22.5	22.2	1.3	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	102	5.22	4.95	1.77	1.68	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	99	1.62	1.61	0.451	0.446	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	99	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	108	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	99	35.2	34.7	8.12	8.00	1.5	70 - 130	25
Propylene	ND	0.580	ND	1.00	94	ND	6.11	ND	3.55	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	109	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	100	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	101	3.18	3.17	0.469	0.468	0.2	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	94	1.75	1.77	0.594	0.599	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	100	85.5	84.7	22.7	22.5	0.9	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	100	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	104	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	109	1.43	1.38	0.254	0.246	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	109	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	101	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	102	%	102	%	100	100	101	100	101	NC	70 - 130	25
% IS-1,4-Difluorobenzene	99	%	99	%	97	98	100	98	100	NC	60 - 140	25
% IS-Bromochloromethane	100	%	100	%	97	97	100	97	100	NC	60 - 140	25
% IS-Chlorobenzene-d5	98	%	98	%	101	97	99	97	99	NC	60 - 140	25

QA/QC Batch 673281 (ppbv), QC Sample No: CN84184 (CN84184, CN84186, CN84187)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	93	ND	0.00	ND	0	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCN84181

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
1,1,1-Trichloroethane	ND	0.180	ND	0.98	101	ND	0.00	ND	0	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	100	ND	0.00	ND	0	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	101	ND	0.00	ND	0	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	104	ND	0.00	ND	0	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	107	ND	0.00	ND	0	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	119	ND	0.00	ND	0	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	104	ND	0.00	ND	0	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	102	ND	0.00	ND	0	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	106	ND	0.00	ND	0	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	107	ND	0.00	ND	0	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	99	ND	0.33	ND	0.071	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	103	ND	0.00	ND	0	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	101	ND	0.00	ND	0	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	102	ND	0.00	ND	0	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	107	ND	0.00	ND	0	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	100	ND	0.00	ND	0	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	104	ND	0.00	ND	0	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	112	ND	0.00	ND	0	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	103	ND	0.00	ND	0	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	100	ND	0.00	ND	0	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	108	2.67	2.64	0.651	0.645	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	105	37.7	37.5	15.9	15.8	0.6	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	106	ND	0.00	ND	0	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	98	ND	0.62	ND	0.193	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	105	ND	0.00	ND	0	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	100	ND	0.00	ND	0	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	88	ND	0.00	ND	0	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	97	ND	0.00	ND	0	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	104	2.12	2.23	0.682	0.718	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	91	0.30	0.30	0.048	0.048	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	100	ND	0.00	ND	0	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	94	ND	0.00	ND	0	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	101	ND	0.63	ND	0.129	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	104	1.47	1.47	0.714	0.711	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	103	ND	0.00	ND	0	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	99	ND	0.00	ND	0	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	96	ND	0.00	ND	0	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	94	ND	0.00	ND	0	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	101	2.17	2.21	0.440	0.447	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	141	77.6 E	76.6	41.2 E	40.7	1.2	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	79	ND	0.00	ND	0	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	99	ND	0.00	ND	0	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	108	2.08	2.14	0.509	0.523	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	117	ND	0.00	ND	0	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	103	1.55	1.56	0.440	0.442	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	137	3.51	3.44	1.43	1.40	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	101	ND	0.00	ND	0	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	102	1.60	1.51	0.368	0.349	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	112	2.07	2.08	0.703	0.707	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	104	ND	0.00	ND	0	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	109	ND	1.20	ND	0.346	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	101	ND	0.00	ND	0	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	96	ND	0.68	ND	0.156	NC	70 - 130	25

QA/QC Data

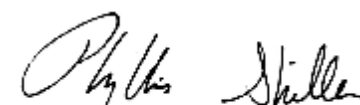
SDG I.D.: GCN84181

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
Propylene	ND	0.580	ND	1.00	108	ND	0.00	ND	0	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	101	ND	0.00	ND	0	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	100	ND	0.00	ND	0	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	99	3.18	3.15	0.469	0.465	0.9	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	105	ND	0.48	ND	0.164	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	100	4.22	4.07	1.12	1.08	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	103	ND	0.00	ND	0	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	101	ND	0.00	ND	0	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	102	ND	0.00	ND	0	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	110	1.09	1.11	0.195	0.198	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	104	ND	0.00	ND	0	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	102	ND	0.10	ND	0.040	NC	70 - 130	25
% Bromofluorobenzene	104	%	104	%	99	104	104	104	104	NC	70 - 130	25
% IS-1,4-Difluorobenzene	101	%	101	%	100	98	98	98	98	NC	60 - 140	25
% IS-Bromochloromethane	96	%	96	%	98	96	96	96	96	NC	60 - 140	25
% IS-Chlorobenzene-d5	100	%	100	%	107	96	96	96	96	NC	60 - 140	25

I = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
 LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample Duplicate
 MS - Matrix Spike
 MS Dup - Matrix Spike Duplicate
 NC - No Criteria
 Intf - Interference


 Phyllis Shiller, Laboratory Director
 June 01, 2023

Sample Criteria Exceedances Report

Criteria: NY: AIRIA, AIRSV

GCN84181 - FPMGROUP

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CN84181	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	16.9	0.037	0.443	0.443	ppbv
CN84181	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	0.966	0.037	0.037	0.037	ppbv
CN84181	\$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	0.454	0.051	0.051	0.051	ppbv
CN84181	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Sub-Slab Vapor	16.9	0.037	14.8	14.8	ppbv
CN84182	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	272	5.16	0.443	0.443	ppbv
CN84182	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	1.23	0.037	0.037	0.037	ppbv
CN84182	\$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	0.090	0.051	0.051	0.051	ppbv
CN84182	\$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	29.5	0.183	0.55	0.55	ppbv
CN84182	\$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Sub-Slab Vapor	29.5	0.183	18.3	18.3	ppbv
CN84182	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Sub-Slab Vapor	1.23	0.037	1.12	1.12	ppbv
CN84182	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Sub-Slab Vapor	272	5.16	14.8	14.8	ppbv
CN84182	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	1840	35	3	3	ug/m3
CN84183	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.067	0.032	0.032	0.032	ppbv
CN84183	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	7.94	0.037	0.443	0.443	ppbv
CN84184	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.048	0.032	0.032	0.032	ppbv
CN84184	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	0.469	0.037	0.443	0.443	ppbv
CN84185	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	0.718	0.037	0.443	0.443	ppbv
CN84185	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.066	0.032	0.032	0.032	ppbv
CN84185	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	0.144	0.037	0.037	0.037	ppbv
CN84185	\$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	0.377	0.051	0.051	0.051	ppbv
CN84186	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	1.01	0.037	0.037	0.037	ppbv
CN84186	\$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	6.75	0.183	0.55	0.55	ppbv
CN84186	\$AIR_NYTO15	1,1-Dichloroethene	NY / Air Guideline Values / Indoor Air	0.110	0.051	0.051	0.051	ppbv
CN84186	\$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	0.239	0.051	0.051	0.051	ppbv
CN84186	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	28.5	0.037	0.443	0.443	ppbv
CN84186	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Sub-Slab Vapor	28.5	0.037	14.8	14.8	ppbv
CN84187	\$AIR_NYTO15	1,1,1-Trichloroethane	NY / Air Guideline Values / Indoor Air	2.35	0.183	0.55	0.55	ppbv
CN84187	\$AIR_NYTO15	Tetrachloroethene	NY / Air Guideline Values / Indoor Air	12.2	0.037	0.443	0.443	ppbv
CN84188	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.076	0.032	0.032	0.032	ppbv
CN84188	\$AIR_NYTO15	Cis-1,2-Dichloroethene	NY / Air Guideline Values / Indoor Air	0.066	0.051	0.051	0.051	ppbv
CN84188	\$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	2.85	0.863	0.864	0.864	ppbv
CN84188	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	0.059	0.037	0.037	0.037	ppbv
CN84189	\$AIR_NYTO15	Trichloroethene	NY / Air Guideline Values / Indoor Air	0.046	0.037	0.037	0.037	ppbv
CN84189	\$AIR_NYTO15	Carbon Tetrachloride	NY / Air Guideline Values / Indoor Air	0.075	0.032	0.032	0.032	ppbv
CN84189	\$AIR_NYTO15	Methylene Chloride	NY / Air Guideline Values / Indoor Air	2.82	0.863	0.864	0.864	ppbv

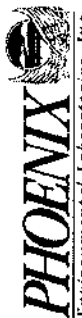
Sample Criteria Exceedances Report
GCN84181 - FPMGROUP

Criteria: NY: AIRIA, AIRSV

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.



Phoenix Environmental Laboratories, Inc.
581 E. Valley Street, Suite 101, Bohemia, NY 11716
Telephone: 631-665-1102 • Fax: 631-665-1033

FPM GROUP

CHAIN OF CUSTODY RECORD

AIR ANALYSES

860-645-1102

email: greg@phoenixlabs.com

P.O. #

Page 1 of 2

Data Delivery:

☐ Fax #:

☒ Email: C.d.sclafani@phoenix-labs.com

☐ Phone #:

Report to:	Chris DiSclafani	Project Name:	Award Packaging	Data Format:	(Circle) Equis ☒ Excel ☐ Other:
Customer:	FPM Group	Invoice to:	SAME	Requested Deliverable:	RCP ASP CAT B
Address:	640 Johnson Avenue, Suite 101	Sampled by:	Christopher DiSclafani	MCP	NJ Deliverables
14560	Bohemia, NY 11716	Quote Number:			

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure (" Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End (" Hg)	Ambient/Indoor	Soil Gas	Grab (G) Comp	TO-15	APH
THIS SECTION FOR LAB USE ONLY																	
84181	SV-1	0678	6.0L	-30	-10	10565	11.3	7:24	13:46	4/12/23	-30	-9		X	G	X	
84182	SV-3	0719	6.0L	-30	-9	5041	10.7	8:23	15:04	4/12/23	-30	-9		X			
84183	IA-2	0657	6.0L	-30	-10	10573	11.5	7:25	13:44	4/12/23	-30	-9	X				
84184	SV-4	28605	6.0L	-30	-10	10697	11.1	8:28	15:15	4/12/23	-30	-1		X			
84185	Ambient	461	6.0L	-30	-10	10682	10.6	7:46	14:19	4/12/23	-30	-9	X				

Relinquished by:	Accepted by:	Date:	Time:
CPD RRM	ZM	4.14.23	1040
	ZM	4.14.23	1834
State Where Samples Collected:	Requested Criteria:	Signature:	Date:
	MA: TAC I/C TAC RES SVWC I/C SVWC RES GWV I/C GWV CES	CPD	4/12/23

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:		Date: 4/12/23	
(S) - 6.0L 8 hr, 15K Tubing, 5 Connectors			
SURCHARGES MAY APPLY			
Indoor Air: Residential		Indoor Air: Residential	
Indoor Air: Commercial		Indoor Air: Commercial	
Indoor Air: Industrial		Indoor Air: Industrial	
Indoor Air: Sub-slab		Indoor Air: Sub-slab	
Indoor Air: Non-residential		Indoor Air: Non-residential	
Indoor Air: Vapor Intrusion		Indoor Air: Vapor Intrusion	
Indoor Air: Soil Gas		Indoor Air: Soil Gas	
Indoor Air: Residential		Indoor Air: Residential	
Indoor Air: Commercial		Indoor Air: Commercial	
Indoor Air: Industrial		Indoor Air: Industrial	



39750 Middlebrook P.O. Box 370, Norwalk, CT 06850
Telephone: (860) 451-1100 • Fax: (860) 451-0823

FPM GROUP

CHAIN OF CUSTODY RECORD

AIR ANALYSES

860-645-1102

email: greg@phoenixlabs.com

P.O. #

Data Delivery:

Fax #:

Email: C.D. Scialfani @ fpm - grad. Com

Phone #:

Project Name:

Awards Packaging

Invoice to:

SAME

Sampled by:

Christopher D. Scialfani

Data

Format:

Requested Deliverable:

RCP

MCP

Quote Number:

Other:

Equis

ASP CAT B

NJ Deliverables

Canister

Pressure at

Start (inHg)

Canister

Pressure at

End (inHg)

Sample

Start Date

Sampling

End Time

Sampling

Start Time

Flow

Controller

Setting

(mL/min)

Flow

Regulator

ID #

Incoming

Canister

Pressure

(inHg)

Outgoing

Canister

Pressure

(inHg)

Canister

Size (L)

Canister ID #

Client Sample ID

Phoenix ID #

SV-5

SV-2

IA-5

IA-55

SV-5

SV-2

IA-5

IA-55

SV-5

SV-2

IA-5

IA-55

SV-5

SV-2

IA-5

IA-55

SV-5

SV-2

IA-5

IA-55

I warrant that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.

Date: 4.14.23

Time: 1040

Signature: [Signature]

Date: 4.14.23

Time: 1534

Signature: [Signature]

Date: 4.14.23

Time: 1534

Signature: [Signature]

Date: 4.14.23

Time: 1534

Signature: [Signature]

Date: 4.14.23

Time: 1534

Signature: [Signature]

State Where Samples Collected:

SPECIAL INSTRUCTIONS, LOCAL REQUIREMENTS, REGULATORY INFORMATION:

(4) - 6.0.8 hr

4.14.23

Turnaround Time:

1 Day*

2 Day*

3 Day*

4 Day*

5 Day*

Standard

*SURCHARGES MAY APPLY

Requested Criteria:

CH

TAC I/C

TAC RES

SVVC I/C

SVVC RES

GWV I/C

GWV RES

Please Circle:

MA

Indoor Air

Residential

Ind/Commercial

Soil Gas

Residential

Ind/Commercial

Indoor Air

Residential

Ind/Commercial

Soil Gas

Residential

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Soil Gas

Residential

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Ind/Commercial



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: FPM Group

AWARD PACKAGING

Laboratory Project: GCN84181

Volatile TO15
Ver 1

Organic Data Flags

LOD(MDL): Limit of Detection or Method Detection Limit

The minimum reportable concentration that can be measured with confidence.

PQL(RL): Practical Quantitation Level or Reporting Level

This value is at or above the MDL and is supported by the lowest calibration standard.

Q Qualifiers:

- U - The compound was analyzed for but not detected at or above the MDL. The number immediately preceding the "U" represents the PQL reporting level corrected for percent solids, weight and/or volume calculations, and dilution factors.
- J - Indicates an estimated value, may indicate one of the following, depending on the situation:
 - a) The reported value is estimated and below the RL.
Compounds that are detected above MDL but below RL are qualified with a J flag.
 - b) Used when estimating a concentration for TIC where a 1:1 response is assumed or when the result indicates the presence of a compound that meets the identification criteria, but the results is less than the quantitation limit, but greater than zero.
 - c) QC associated with this analyte is within warning limits.
- X - The concentration is not reported. This quantitation file was not evaluated for this compound at this dilution; a volatile purging or related issue may be the cause.
- L - Biased Low
- N - The concentration is based on the response of the nearest internal. This flag is used on the TIC form for all compounds identified.
- S - This compound is a solvent that is used in the laboratory. Laboratory contamination is suspected if concentration is less than five times the reporting level.
- B - This compound was also present in the method blank
- D - The reported concentration is the result of a diluted analysis. Samples that require dilution may result in elevated reporting limits that exceed requested criteria for one or more analytes.
- E - The reported value is estimated because the concentration exceeded the calibration range.
- A - Indicates that the tentatively identified compound is a suspected aldol condensation product. Aldol condensation products are produced during the extraction process.
- Q - For TICS, this compound was quantitated using a calibration curve. This compound is part of the instrument method, but not part of the client target list.
- P - Percent difference is greater than 25% between the two GC columns and the lower result is reported.

SDG: GCN84181

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: AWARD PACKAGING, FPM Group

Form 1 (Analysis):

No observations noted.

Detailed reference spectra will print "below cal" for the full scan compounds that are reported from the SIM and are below the lowest calibration point in the full scan analysis.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: CN82795 LCS

All LCS recoveries met criteria with the following exceptions: Ethanol 151%

Sample: CN84184 LCS

All LCS recoveries met criteria with the following exceptions: Ethanol 141%, Isopropylalcohol 137%

Sample: CN84179 LCS

All LCS recoveries met criteria with the following exceptions: None.

Form 4 (Method Blank):

File: CHEM20 0414_04.D

All compounds were non-detect with the following exceptions: None.

File: CHEM20 0417_05.D

All compounds were non-detect with the following exceptions: None.

File: CHEM39 0417_05.D

All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM20 0410_03.D

All Tune criteria was met with the following exceptions: None.

File: CHEM20 0414_01.D

All Tune criteria was met with the following exceptions: None.

File: CHEM20 0417_02.D

All Tune criteria was met with the following exceptions: None.

File: CHEM39 0413_04.D

All Tune criteria was met with the following exceptions: None.

File: CHEM39 0417_02.D

All Tune criteria was met with the following exceptions: None.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06040
Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCN84181

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: AWARD PACKAGING, FPM Group

Form 6 (Initial Calibration):

Calibration: CHEM20 04/10/23 - 04/10/23
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM39 04/13/23 - 04/14/23
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM20 0414_01.D (Opening)
97% of method compounds met criteria.
The following compounds did not meet maximum % deviations: Bromoform 32.7% (30), 1,2,4-Trichlorobenzene 36.6% (30),
Bromoform(sim) 30.2% (30), Benzyl chloride(sim) 34.5% (30)

File: CHEM20 0417_02.D (Opening)
97% of method compounds met criteria.
The following compounds did not meet maximum % deviations: Bromoform 34.3% (30), Dibromochloromethane(sim) 37.3% (30),
Bromoform(sim) 35.9% (30)

File: CHEM39 0417_02.D (Opening)
98% of method compounds met criteria.
The following compounds did not meet maximum % deviations: Bromoform 30.0% (20), Benzyl chloride(sim) 34.3% (30)

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 20_AIR_0410.M / 0414_01.D Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0410.M / 0414_01.D Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0410.M / 0417_02.D Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0410.M / 0417_02.D Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0410.M / Average Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0410.M / Average Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM39 - 39_AIR_0413.M / 0417_02.D Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM39 - 39_AIR_0413.M / 0417_02.D Sim



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCN84181

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: AWARD PACKAGING, FPM Group

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM39 - 39_AIR_0413.M / Average Full

All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM39 - 39_AIR_0413.M / Average Sim

All samples met internal standard area and retention time criteria with the following exceptions: None.

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

04/21/23

Alejandro Paredes

Project Manager

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SDG: GCN84181

QC Batch Id: 672894 QC Sample Id: CN82795

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CN82795 LCS	CN82795 LCS	97				0
02	CN82795 BLANK	CN82795 BLANK	103				0
03	CN82795 QC	CN82795 QC	103				0
04	82795 dup	CN82795 DUP	106				0
05	IA-1	CN84183	99				0
06	AMBIENT	CN84185	106				0
07	IA-5	CN84188	106				0
08	IA-55	CN84189	103				0
09	SV-3	CN84182	102				0
10							
11							
12							
13							
14							
15							
16							
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18							
19							
20							
21							
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23							
24							
25							
26							
27							
28							
29							
30							

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Page 53 of 544

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SDG: GCN84181

QC Batch Id: 673255 QC Sample Id: CN84179

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CN84179 LCS	CN84179 LCS	100				0
02	CN84179 BLANK	CN84179 BLANK	102				0
03	CN84179 QC	CN84179 QC	100				0
04	84179 0.5x;2x dup	CN84179 DUP	101				0
05	SV-1	CN84181	102				0
06	SV-3 140X	CN84182 140X	102				0
07							
08							
09							
10							
11							
12							
13							
14							
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24							
25							
26							
27							
28							
29							
30							

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Page 54 of 544

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: SDG: GCN84181
 QC Batch Id: 673281 QC Sample Id: CN84184

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CN84184 LCS	CN84184 LCS	99				0
02	CN84184 BLANK	CN84184 BLANK	104				0
03	SV-4	CN84184	104				0
04	SV-4 DUP	CN84184 DUP	104				0
05	SV-5	CN84186	106				0
06	SV-2	CN84187	105				0
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Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Page 55 of 544

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCN84181
 LCS - Client Id: CN82795 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		11.42	114	70	130
Dichlorodifluoromethane	10		10.66	107	70	130
Chloromethane	10		11.09	111	70	130
1,2-Dichlorotetrafluoroethane	10		10.68	107	70	130
Vinyl Chloride	10		10.59	106	70	130
1,3-Butadiene	10		10.58	106	70	130
Bromomethane	10		10.24	102	70	130
Chloroethane	10		9.872	99	70	130
Ethanol	10		15.11	151 *	70	130
Acetone	10		11.40	114	70	130
Trichlorofluoromethane	10		11.54	115	70	130
Isopropylalcohol	10		11.50	115	70	130
Acrylonitrile	10		11.60	116	70	130
1,1-Dichloroethene	10		11.26	113	70	130
Methylene Chloride	10		11.78	118	70	130
Carbon Disulfide	10		11.66	117	70	130
Trichlorotrifluoroethane	10		11.43	114	70	130
Trans-1,2-Dichloroethene	10		11.01	110	70	130
1,1-Dichloroethane	10		10.55	106	70	130
Methyl tert-butyl ether(MTBE)	10		10.61	106	70	130
Methyl Ethyl Ketone	10		12.28	123	70	130
Cis-1,2-Dichloroethene	10		10.42	104	70	130
Hexane	10		10.68	107	70	130
Chloroform	10		10.50	105	70	130
Ethyl acetate	10		7.942	79	70	130
Tetrahydrofuran	10		11.17	112	70	130
1,2-Dichloroethane	10		11.14	111	70	130
1,1,1-Trichloroethane	10		10.48	105	70	130
Benzene	10		10.04	100	70	130
Carbon Tetrachloride	10		10.09	101	70	130
Cyclohexane	10		9.882	99	70	130
1,2-dichloropropane	10		10.41	104	70	130
Bromodichloromethane	10		10.52	105	70	130
Trichloroethene	10		10.19	102	70	130
1,4-Dioxane	10		10.53	105	70	130
Heptane	10		11.29	113	70	130
cis-1,3-Dichloropropene	10		10.36	104	70	130
4-Methyl-2-pentanone(MIBK)	10		11.47	115	70	130
trans-1,3-Dichloropropene	10		10.31	103	70	130
1,1,2-Trichloroethane	10		10.31	103	70	130
Toluene	10		10.25	103	70	130
Dibromochloromethane	10		10.07	101	70	130
2-Hexanone(MBK)	10		11.78	118	70	130
1,2-Dibromoethane(EDB)	10		10.31	103	70	130

FORM III AIR

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix

Case No:

SAS No:

SDG No: GCN84181

LCS - Client Id: CN82795 LCS

[illegible]

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCN84181
 LCS - Client Id: CN84179 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		9.375	94	70	130
Dichlorodifluoromethane	10		10.49	105	70	130
Chloromethane	10		9.674	97	70	130
1,2-Dichlorotetrafluoroethane	10		10.62	106	70	130
Vinyl Chloride	10		10.12	101	70	130
1,3-Butadiene	10		9.925	99	70	130
Bromomethane	10		10.58	106	70	130
Chloroethane	10		9.308	93	70	130
Ethanol	10		12.06	121	70	130
Acetone	10		9.016	90	70	130
Trichlorofluoromethane	10		10.92	109	70	130
Isopropylalcohol	10		9.224	92	70	130
Acrylonitrile	10		9.291	93	70	130
1,1-Dichloroethene	10		10.32	103	70	130
Methylene Chloride	10		9.890	99	70	130
Carbon Disulfide	10		10.54	105	70	130
Trichlorotrifluoroethane	10		10.95	110	70	130
Trans-1,2-Dichloroethene	10		9.989	100	70	130
1,1-Dichloroethane	10		9.943	99	70	130
Methyl tert-butyl ether(MTBE)	10		9.894	99	70	130
Methyl Ethyl Ketone	10		10.21	102	70	130
Cis-1,2-Dichloroethene	10		9.941	99	70	130
Hexane	10		9.663	97	70	130
Chloroform	10		10.13	101	70	130
Ethyl acetate	10		7.737	77	70	130
Tetrahydrofuran	10		9.422	94	70	130
1,2-Dichloroethane	10		10.24	102	70	130
1,1,1-Trichloroethane	10		10.00	100	70	130
Benzene	10		9.800	98	70	130
Carbon Tetrachloride	10		9.469	95	70	130
Cyclohexane	10		9.680	97	70	130
1,2-dichloropropane	10		9.997	100	70	130
Bromodichloromethane	10		10.22	102	70	130
Trichloroethene	10		10.42	104	70	130
1,4-Dioxane	10		9.379	94	70	130
Heptane	10		9.441	94	70	130
cis-1,3-Dichloropropene	10		10.14	101	70	130
4-Methyl-2-pentanone(MIBK)	10		9.563	96	70	130
trans-1,3-Dichloropropene	10		10.22	102	70	130
1,1,2-Trichloroethane	10		10.18	102	70	130
Toluene	10		9.979	100	70	130
Dibromochloromethane	10		9.932	99	70	130
2-Hexanone(MBK)	10		9.806	98	70	130
1,2-Dibromoethane(EDB)	10		10.39	104	70	130

FORM III AIR

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix

Case No:

SAS No:

SDG No: GCN84181

LCS - Client Id: CN84179 LCS

[illegible]

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCN84181
 LCS - Client Id: CN84184 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		10.76	108	70	130
Dichlorodifluoromethane	10		10.13	101	70	130
Chloromethane	10		10.43	104	70	130
1,2-Dichlorotetrafluoroethane	10		10.31	103	70	130
Vinyl Chloride	10		10.18	102	70	130
1,3-Butadiene	10		10.25	103	70	130
Bromomethane	10		9.717	97	70	130
Chloroethane	10		9.376	94	70	130
Ethanol	10		14.10	141 *	70	130
Acetone	10		10.55	106	70	130
Trichlorofluoromethane	10		10.97	110	70	130
Isopropylalcohol	10		13.65	137 *	70	130
Acrylonitrile	10		10.64	106	70	130
1,1-Dichloroethene	10		10.67	107	70	130
Methylene Chloride	10		10.95	110	70	130
Carbon Disulfide	10		10.37	104	70	130
Trichlorotrifluoroethane	10		10.42	104	70	130
Trans-1,2-Dichloroethene	10		10.32	103	70	130
1,1-Dichloroethane	10		10.39	104	70	130
Methyl tert-butyl ether(MTBE)	10		10.44	104	70	130
Methyl Ethyl Ketone	10		11.23	112	70	130
Cis-1,2-Dichloroethene	10		10.28	103	70	130
Hexane	10		10.34	103	70	130
Chloroform	10		10.15	102	70	130
Ethyl acetate	10		7.907	79	70	130
Tetrahydrofuran	10		10.45	105	70	130
1,2-Dichloroethane	10		10.65	107	70	130
1,1,1-Trichloroethane	10		10.12	101	70	130
Benzene	10		9.804	98	70	130
Carbon Tetrachloride	10		9.149	91	70	130
Cyclohexane	10		9.613	96	70	130
1,2-dichloropropane	10		9.906	99	70	130
Bromodichloromethane	10		9.973	100	70	130
Trichloroethene	10		10.17	102	70	130
1,4-Dioxane	10		10.36	104	70	130
Heptane	10		10.78	108	70	130
cis-1,3-Dichloropropene	10		9.916	99	70	130
4-Methyl-2-pentanone(MIBK)	10		10.77	108	70	130
trans-1,3-Dichloropropene	10		10.12	101	70	130
1,1,2-Trichloroethane	10		10.13	101	70	130
Toluene	10		9.951	100	70	130
Dibromochloromethane	10		9.361	94	70	130
2-Hexanone(MBK)	10		11.21	112	70	130
1,2-Dibromoethane(EDB)	10		10.17	102	70	130

FORM III AIR

LCS - Client Id: CN84184 LCS

FORM III AIR

4A
AIR METHOD BLANK SUMMARY

Client ID

CN82795 BLANK

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN84181

Lab File ID: 0414_04.D

Lab Sample ID: CN82795 BLK

Date Analyzed: 04/14/2023

Time Analyzed: 11:04

GC Column: RTX-1 60M

Lab Batch ID: 672894

Instrument ID: CHEM20

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING QC AND FIELD SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CN82795 LCS	CN82795 LCS	0414_03.D	10:33
02	CN82795 QC	CN82795	0414_05.D	11:59
03	82795 dup	CN82795 DUP	0414_06.D	12:33
04	IA-1	CN84183	0414_21.D	21:11
05	AMBIENT	CN84185	0414_22.D	21:49
06	IA-5	CN84188	0414_23.D	22:23
07	IA-55	CN84189	0414_24.D	22:57
08	SV-3	CN84182	0414_35.D	05:13
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COMMENTS:

FORM IV AIR

4A
AIR METHOD BLANK SUMMARY

Client ID

CN84179 BLANK

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN84181

Lab File ID: 0417_05.D

Lab Sample ID: CN84179 BLK

Date Analyzed: 04/17/2023

Time Analyzed: 14:03

GC Column: RTX-1 ; #10157

Lab Batch ID: 673255

Instrument ID: CHEM39

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING QC AND FIELD SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CN84179 LCS	CN84179 LCS	0417_04.D	13:29
02	CN84179 QC	CN84179	0417_09.D	16:32
03	84179 0.5x;2x dup	CN84179 DUP	0417_10.D	17:14
04	SV-1	CN84181	0417_11.D	17:56
05	SV-3 140X	CN84182 140X	0417_16.D	20:56
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COMMENTS:

FORM IV AIR

4A
AIR METHOD BLANK SUMMARY

Client ID

CN84184 BLANK

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN84181

Lab File ID: 0417_05.D

Lab Sample ID: CN84184 BLK

Date Analyzed: 04/17/2023

Time Analyzed: 10:42

GC Column: RTX-1 60M

Lab Batch ID: 673281

Instrument ID: CHEM20

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING QC AND FIELD SAMPLES:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CN84184 LCS	CN84184 LCS	0417_04.D	10:11
02	SV-4	CN84184	0417_12.D	15:16
03	SV-4 DUP	CN84184 DUP	0417_13.D	15:54
04	SV-5	CN84186	0417_20.D	19:39
05	SV-2	CN84187	0417_21.D	20:16
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COMMENTS:

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN84181

Lab File ID: 0410_03.D

BFB Injection Date: 04/10/23

Instrument ID: CHEM20

BFB Injection Time: 09:30

GC Column: RTX-1 60M

Heated Purge: (Y/N) Y

AutoFind: Scans 791, 792, 793; Background Corrected with Scan 785

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	27.1
75	30.0 - 66.0% of mass 95	46.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	91.1
175	4.0 - 9.0% of mass 174	4.5 (4.1)1
176	93.0 - 101.0% of mass 174	98.9 (90.1)1
177	5.0 - 9.0% of mass 176	6.6 (5.9)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.01	0.01 ppbV ; AirTO1501Y	0410_04.D	04/10/23	10:01	
02	ICAL 0.02	0.02 ppbV ; AirTO1501y	0410_05.D	04/10/23	10:31	
03	ICAL 0.035	0.035 ppbV ; AirTO1501Y	0410_06.D	04/10/23	11:03	
04	ICAL 0.05	0.05 ppbV ; AirTO1501Y	0410_07.D	04/10/23	11:36	
05	ICAL 0.1	0.10 ppbV ; AirTO1501Y	0410_08.D	04/10/23	12:07	
06	ICAL 0.2	0.20 ppbV ; AirTO1501Y	0410_09.D	04/10/23	12:38	
07	ICAL 0.5	0.50 ppbV ; AirTO1501Y	0410_10.D	04/10/23	13:10	
08	ICAL 2.5	2.5 ppbV ; AirTO1502B	0410_11.D	04/10/23	13:43	
09	ICAL 5	5.0 ppbV ; AirTO1501Z	0410_12.D	04/10/23	14:14	
10	ICAL 25	25 ppbV ; AirTO1501Z	0410_13.D	04/10/23	14:47	
11	ICAL 40	40 ppbV ; AirTO1501Z	0410_14.D	04/10/23	15:22	
12	ICAL 1	1.0 ppbV ; AirTO1502B	0410_15.D	04/10/23	15:53	
13	ICAL 10	10 ppbV ; AirTO1501Z	0410_16.D	04/10/23	16:24	
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_03.D
 Acq On : 10 Apr 2023 9:30 am
 Operator :
 Sample : 0/0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 11 10:01:36 2023

AutoFind: Scans 791, 792, 793; Background Corrected with Scan 785

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	27.1	114296	PASS
75	95	30	66	46.3	195261	PASS
95	95	100	100	100.0	421675	PASS
96	95	5	9	6.5	27592	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.1	384021	PASS
175	174	4	9	4.5	17245	PASS
176	174	93	101	98.9	379968	PASS
177	176	5	9	6.6	24922	PASS

20_AIR_0410.M Tue Apr 11 10:02:09 2023

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN84181

Lab File ID: 0414_01.D

BFB Injection Date: 04/14/23

Instrument ID: CHEM20

BFB Injection Time: 09:30

GC Column: RTX-1 60M

Heated Purge: (Y/N) Y

Spectrum Information: Tune, Average of 11.940 to 11.950 min.; with background subtraction.

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	31.9
75	30.0 - 66.0% of mass 95	49.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	81.9
175	4.0 - 9.0% of mass 174	8.5 (6.9)1
176	93.0 - 101.0% of mass 174	101.0 (83.1)1
177	5.0 - 9.0% of mass 176	6.2 (5.2)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1ppb ccal	0414_01.D	04/14/23	09:30	
02	CN82795 LCS	CN82795 LCS	0414_03.D	04/14/23	10:33	
03	CN82795 BLANK	CN82795 BLANK	0414_04.D	04/14/23	11:04	
04	CN82795 QC	CN82795 QC	0414_05.D	04/14/23	11:59	
05	82795 dup	CN82795 DUP	0414_06.D	04/14/23	12:33	
06	IA-1	CN84183	0414_21.D	04/14/23	21:11	
07	AMBIENT	CN84185	0414_22.D	04/14/23	21:49	
08	IA-5	CN84188	0414_23.D	04/14/23	22:23	
09	IA-55	CN84189	0414_24.D	04/14/23	22:57	
10	SV-3	CN84182	0414_35.D	04/15/23	05:13	
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_01.D
 Acq On : 14 Apr 2023 9:30 am
 Operator :
 Sample : 1ppb ccal
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 11 10:01:36 2023

Spectrum Information: Average of 11.940 to 11.950 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	31.9	89464	PASS
75	95	30	66	49.8	139444	PASS
95	95	100	100	100.0	280272	PASS
96	95	5	9	6.8	18963	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	81.9	229644	PASS
175	174	4	9	8.4	19394	PASS
176	174	93	101	101.4	232796	PASS
177	176	5	9	6.2	14529	PASS

20_AIR_0410.M Fri Apr 14 10:43:11 2023

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN84181

Lab File ID: 0417_02.D

BFB Injection Date: 04/17/23

Instrument ID: CHEM20

BFB Injection Time: 09:07

GC Column: RTX-1 60M

Heated Purge: (Y/N) Y

Spectrum Information: Tune, Average of 11.929 to 11.950 min.; with background subtraction.

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	30.2
75	30.0 - 66.0% of mass 95	48.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	81.4
175	4.0 - 9.0% of mass 174	8.1 (6.6)1
176	93.0 - 101.0% of mass 174	101.0 (81.8)1
177	5.0 - 9.0% of mass 176	7.2 (5.9)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1ppb ccal	0417_02.D	04/17/23	09:07	
02	CN84184 LCS	CN84184 LCS	0417_04.D	04/17/23	10:11	
03	CN84184 BLANK	CN84184 BLANK	0417_05.D	04/17/23	10:42	
04	SV-4	CN84184	0417_12.D	04/17/23	15:16	
05	SV-4 DUP	CN84184 DUP	0417_13.D	04/17/23	15:54	
06	SV-5	CN84186	0417_20.D	04/17/23	19:39	
07	SV-2	CN84187	0417_21.D	04/17/23	20:16	
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 9:07 am
 Operator :
 Sample : 1ppb ccal
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 11 10:01:36 2023

Spectrum Information: Average of 11.929 to 11.950 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	30.2	64026	PASS
75	95	30	66	48.0	101879	PASS
95	95	100	100	100.0	212268	PASS
96	95	5	9	6.5	13784	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	81.4	172720	PASS
175	174	4	9	8.1	13924	PASS
176	174	93	101	100.6	173729	PASS
177	176	5	9	7.2	12479	PASS

20_AIR_0410.M Mon Apr 17 13:26:05 2023

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN84181

Lab File ID: 0413_04.D

BFB Injection Date: 04/13/23

Instrument ID: CHEM39

BFB Injection Time: 16:54

GC Column: RTX-1 ; #10157

Heated Purge: (Y/N) Y

AutoFind: Scans 1123, 1124, 1125; Background Corrected with Scan 1116

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	12.2
75	30.0 - 66.0% of mass 95	40.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	50.0 - 120.0% of mass 95	100.0
175	4.0 - 9.0% of mass 174	6.9 (7.0)1
176	93.0 - 101.0% of mass 174	97.6 (98.1)1
177	5.0 - 9.0% of mass 176	6.6 (6.5)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.01	0.01 ; to1503p	0413_05.D	04/13/23	17:29	
02	ICAL 0.02	0.02 ; to1503p	0413_06.D	04/13/23	18:06	
03	ICAL 0.035	0.035 ; to1503p	0413_07.D	04/13/23	18:43	
04	ICAL 0.05	0.05 ; to1503p	0413_08.D	04/13/23	19:22	
05	ICAL 0.1	0.10 ; to1503q	0413_09.D	04/13/23	19:57	
06	ICAL 0.2	0.2 ; to1503q	0413_10.D	04/13/23	20:33	
07	ICAL 0.5	0.5 ; to1503q	0413_11.D	04/13/23	21:11	
08	ICAL 2.5	2.5 ; to1503r	0413_12.D	04/13/23	21:49	
09	ICAL 5	5.0 ; to1503s	0413_13.D	04/13/23	22:25	
10	ICAL 25	25 ; to1503s	0413_14.D	04/13/23	23:04	
11	ICAL 40	40 ; to1503s	0413_15.D	04/13/23	23:44	
12	ICAL 1	1.0 ; to1503r	0413_16.D	04/14/23	00:21	
13	ICAL 10	10 ; to1503s	0413_17.D	04/14/23	00:57	
14						
15						
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20						
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23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2023\CHEM39\04APR\13\
Data File : 0413_04.D
Acq On : 13 Apr 2023 4:54 pm
Operator :
Sample : 0/0
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 14 11:10:30 2023

AutoFind: Scans 1123, 1124, 1125; Background Corrected with Scan 1116

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	12.2	71440	PASS
75	95	30	66	40.8	238699	PASS
95	95	100	100	100.0	584504	PASS
96	95	5	9	6.5	37989	PASS
173	174	0.00	2	0.6	3717	PASS
174	95	50	120	100.5	587371	PASS
175	174	4	9	6.9	40709	PASS
176	174	93	101	97.6	573269	PASS
177	176	5	9	6.6	37891	PASS

39_AIR_0413.M Fri Apr 14 11:14:55 2023

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN84181

Lab File ID: 0417_02.D

BFB Injection Date: 04/17/23

Instrument ID: CHEM39

BFB Injection Time: 12:14

GC Column: RTX-1 ; #10157

Heated Purge: (Y/N) Y

AutoFind: Scans 1123, 1124, 1125; Background Corrected with Scan 1117

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	12.8
75	30.0 - 66.0% of mass 95	41.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	50.0 - 120.0% of mass 95	102.0
175	4.0 - 9.0% of mass 174	6.9 (7.0)1
176	93.0 - 101.0% of mass 174	97.5 (99.3)1
177	5.0 - 9.0% of mass 176	6.5 (6.4)1

1-Value is % mass 95

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1ppb ccal	0417_02.D	04/17/23	12:14	
02	CN84179 LCS	CN84179 LCS	0417_04.D	04/17/23	13:29	
03	CN84179 BLANK	CN84179 BLANK	0417_05.D	04/17/23	14:03	
04	CN84179 QC	CN84179 QC	0417_09.D	04/17/23	16:32	
05	84179 0.5x;2x dup	CN84179 DUP	0417_10.D	04/17/23	17:14	
06	SV-1	CN84181	0417_11.D	04/17/23	17:56	
07	SV-3 140X	CN84182 140X	0417_16.D	04/17/23	20:56	
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24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 12:14 pm
 Operator :
 Sample : 1ppb ccal
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: rteint.p
 Integration File signal 2: rteint2.p

Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Apr 14 11:21:21 2023

AutoFind: Scans 1123, 1124, 1125; Background Corrected with Scan 1117

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	12.8	70515	PASS
75	95	30	66	41.9	231317	PASS
95	95	100	100	100.0	552533	PASS
96	95	5	9	6.5	35941	PASS
173	174	0.00	2	0.6	3103	PASS
174	95	50	120	101.8	562304	PASS
175	174	4	9	6.9	38533	PASS
176	174	93	101	97.5	548416	PASS
177	176	5	9	6.5	35427	PASS

39_AIR_0413.M Mon Apr 17 13:34:15 2023

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN84181
 Lab Method / File Id: 20_AIR_0410.M / Average Date Analyzed: 04/10/23
 Instrument ID: CHEM20 Time Analyzed: 15:53
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
REFERENCE STD	366654	7.52	1362812	8.68	666886	11.13			Average
UPPER LIMIT	515149	7.85	1914750	9.01	936974	11.46			Average
LOWER LIMIT	218159	7.19	810873	8.35	396797	10.80			Average
CLIENT ID									
01 ICAL 0.2	370098	7.53	1359199	8.68	629278	11.13			0410_09.D
02 ICAL 0.5	369797	7.53	1366979	8.68	623577	11.13			0410_10.D
03 ICAL 2.5	361951	7.52	1351901	8.68	624434	11.13			0410_11.D
04 ICAL 5	363174	7.52	1337112	8.68	624638	11.13			0410_12.D
05 ICAL 25	358657	7.53	1347380	8.68	727184	11.13			0410_13.D
06 ICAL 40	360387	7.53	1363562	8.68	798956	11.13			0410_14.D
07 ICAL 1	378736	7.53	1383826	8.68	630854	11.13			0410_15.D
08 ICAL 10	370430	7.52	1392534	8.68	676163	11.13			0410_16.D
09									
10									
11									
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14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN84181
 Lab Method / File Id: 20_AIR_0410.M / Average Date Analyzed: 04/10/23
 Instrument ID: CHEM20 Time Analyzed: 15:53
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
REFERENCE STD	404718	7.53	1379316	8.68	636869	11.13			Average
UPPER LIMIT	568628	7.86	1937939	9.01	894801	11.46			Average
LOWER LIMIT	240807	7.20	820693	8.35	378937	10.80			Average
CLIENT ID									
01 ICAL 0.01	410543	7.53	1414990	8.68	642879	11.13			0410_04.D
02 ICAL 0.02	417290	7.53	1413487	8.68	658981	11.13			0410_05.D
03 ICAL 0.035	408819	7.53	1403867	8.68	629928	11.13			0410_06.D
04 ICAL 0.05	407532	7.53	1373686	8.68	633295	11.13			0410_07.D
05 ICAL 0.1	405518	7.53	1386575	8.68	631058	11.13			0410_08.D
06 ICAL 0.2	401876	7.53	1359199	8.68	629429	11.13			0410_09.D
07 ICAL 0.5	402728	7.53	1364693	8.68	623901	11.13			0410_10.D
08 ICAL 2.5	394682	7.53	1349400	8.68	624434	11.13			0410_11.D
09 ICAL 5	392120	7.53	1335275	8.68	624638	11.13			0410_12.D
10 ICAL 1	407191	7.53	1380365	8.68	630854	11.13			0410_15.D
11 ICAL 10	403594	7.53	1390942	8.68	676163	11.13			0410_16.D
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN84181
 Lab Method / File Id: 20_AIR_0410.M / 0414_01.D Date Analyzed: 04/14/23
 Instrument ID: CHEM20 Time Analyzed: 9:30
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
REFERENCE STD	312030	7.52	1144439	8.68	532422	11.13			0414_01.D
UPPER LIMIT	438402	7.85	1607937	9.01	748053	11.46			0414_01.D
LOWER LIMIT	185658	7.19	680941	8.35	316791	10.80			0414_01.D
CLIENT ID									
01 CCAL 1	312030	7.52	1144439	8.68	532422	11.13			0414_01.D
02 CN82795 LCS	300488	7.52	1118614	8.68	554941	11.13			0414_03.D
03 CN82795 BLANK	309198	7.52	1170989	8.68	530012	11.13			0414_04.D
04 CN82795 QC	313641	7.53	1165296	8.68	537298	11.13			0414_05.D
05 82795 dup	316255	7.54	1185731	8.68	534401	11.13			0414_06.D
06 IA-1	299691	7.53	1128170	8.68	538987	11.13			0414_21.D
07 AMBIENT	316955	7.52	1174850	8.68	532550	11.13			0414_22.D
08 IA-5	282233	7.54	1026256	8.68	470026	11.13			0414_23.D
09 IA-55	286094	7.52	1050985	8.68	488517	11.13			0414_24.D
10 SV-3	294228	7.54	1068971	8.68	487978	11.13			0414_35.D
11									
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16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN84181
 Lab Method / File Id: 20_AIR_0410.M / 0414_01.D Date Analyzed: 04/14/23
 Instrument ID: CHEM20 Time Analyzed: 9:30
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
REFERENCE STD	344699	7.53	1144439	8.68	532422	11.13			0414_01.D
UPPER LIMIT	484302	7.86	1607937	9.01	748053	11.46			0414_01.D
LOWER LIMIT	205096	7.20	680941	8.35	316791	10.80			0414_01.D
CLIENT ID									
01 CCAL 1	344699	7.53	1144439	8.68	532422	11.13			0414_01.D
02 CN82795 LCS	335655	7.53	1118614	8.68	554941	11.13			0414_03.D
03 CN82795 BLANK	343828	7.53	1167618	8.68	530012	11.13			0414_04.D
04 CN82795 QC	349058	7.53	1163458	8.68	537298	11.13			0414_05.D
05 82795 dup	353238	7.53	1184250	8.68	533718	11.13			0414_06.D
06 IA-1	332167	7.53	1128170	8.68	538896	11.13			0414_21.D
07 AMBIENT	347748	7.53	1173503	8.68	532444	11.13			0414_22.D
08 IA-5	307017	7.54	1026256	8.68	470026	11.13			0414_23.D
09 IA-55	315063	7.53	1050985	8.68	488517	11.13			0414_24.D
10 SV-3	325366	7.54	1068205	8.68	487978	11.13			0414_35.D
11									
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20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN84181
 Lab Method / File Id: 20_AIR_0410.M / 0417_02.D Date Analyzed: 04/17/23
 Instrument ID: CHEM20 Time Analyzed: 9:07
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
REFERENCE STD	318074	7.53	1149563	8.68	529842	11.13			0417_02.D
UPPER LIMIT	446894	7.86	1615136	9.01	744428	11.46			0417_02.D
LOWER LIMIT	189254	7.20	683990	8.35	315256	10.80			0417_02.D
CLIENT ID									
01 CCAL 1	318074	7.53	1149563	8.68	529842	11.13			0417_02.D
02 CN84184 LCS	311044	7.52	1154272	8.67	566942	11.13			0417_04.D
03 CN84184 BLANK	306662	7.51	1166629	8.67	530727	11.12			0417_05.D
04 SV-4	306591	7.52	1123700	8.68	509265	11.13			0417_12.D
05 SV-4 DUP	304704	7.52	1128756	8.68	510964	11.13			0417_13.D
06 SV-5	303625	7.54	1117676	8.68	499695	11.13			0417_20.D
07 SV-2	311227	7.53	1123740	8.68	504779	11.13			0417_21.D
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20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN84181
 Lab Method / File Id: 20_AIR_0410.M / 0417_02.D Date Analyzed: 04/17/23
 Instrument ID: CHEM20 Time Analyzed: 9:07
 GC Column: RTX-1 60M ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
REFERENCE STD	342198	7.53	1261621	8.67	532099	11.13			0417_02.D
UPPER LIMIT	480788	7.86	1772578	9.00	747599	11.46			0417_02.D
LOWER LIMIT	203608	7.20	750664	8.34	316599	10.80			0417_02.D
CLIENT ID									
01 CCAL 1	342198	7.53	1261621	8.67	532099	11.13			0417_02.D
02 CN84184 LCS	343707	7.53	1154272	8.67	566942	11.13			0417_04.D
03 CN84184 BLANK	340513	7.52	1163758	8.67	530727	11.12			0417_05.D
04 SV-4	337878	7.53	1123847	8.68	508402	11.13			0417_12.D
05 SV-4 DUP	338683	7.53	1127154	8.68	510964	11.13			0417_13.D
06 SV-5	337003	7.54	1117676	8.68	499801	11.13			0417_20.D
07 SV-2	337577	7.53	1122840	8.68	504779	11.13			0417_21.D
08									
09									
10									
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17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN84181
 Lab Method / File Id: 39_AIR_0413.M / Average Date Analyzed: 04/14/23
 Instrument ID: CHEM39 Time Analyzed: 0:21
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
REFERENCE STD	403114	7.50	1488669	8.67	735201	11.15			Average
UPPER LIMIT	566376	7.83	2091580	9.00	1032958	11.48			Average
LOWER LIMIT	239853	7.17	885758	8.34	437445	10.82			Average
CLIENT ID									
01 ICAL 0.2	405874	7.51	1484110	8.68	703764	11.15			0413 10.D
02 ICAL 0.5	410795	7.51	1508873	8.68	716368	11.15			0413 11.D
03 ICAL 2.5	410507	7.51	1500436	8.67	723763	11.15			0413 12.D
04 ICAL 5	408228	7.51	1502456	8.67	731396	11.15			0413 13.D
05 ICAL 25	388398	7.50	1452906	8.67	755908	11.15			0413 14.D
06 ICAL 40	388577	7.51	1455785	8.67	782393	11.15			0413 15.D
07 ICAL 1	409536	7.51	1513379	8.67	724813	11.15			0413 16.D
08 ICAL 10	403000	7.51	1491410	8.67	743206	11.15			0413 17.D
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +140% of internal standard area
 AREA LOWER LIMIT = - 60% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN84181
 Lab Method / File Id: 39_AIR_0413.M / Average Date Analyzed: 04/14/23
 Instrument ID: CHEM39 Time Analyzed: 0:21
 GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
REFERENCE STD	380739	7.51	1483769	8.67	710463	11.15			Average
UPPER LIMIT	534939	7.84	2084696	9.00	998201	11.48			Average
LOWER LIMIT	226540	7.18	882843	8.34	422725	10.82			Average
CLIENT ID									
01 ICAL 0.01	377486	7.51	1464758	8.68	695774	11.15			0413_05.D
02 ICAL 0.02	380685	7.51	1476114	8.68	701798	11.15			0413_06.D
03 ICAL 0.035	377488	7.51	1456372	8.68	691923	11.15			0413_07.D
04 ICAL 0.05	374198	7.51	1463304	8.68	686530	11.15			0413_08.D
05 ICAL 0.1	374258	7.51	1460249	8.68	693689	11.15			0413_09.D
06 ICAL 0.2	379896	7.51	1484110	8.68	703764	11.15			0413_10.D
07 ICAL 0.5	387617	7.51	1508873	8.68	716368	11.15			0413_11.D
08 ICAL 2.5	384582	7.51	1500436	8.67	723763	11.15			0413_12.D
09 ICAL 5	383590	7.51	1502456	8.67	731831	11.15			0413_13.D
10 ICAL 1	386797	7.51	1513379	8.67	726518	11.15			0413_16.D
11 ICAL 10	381536	7.51	1491410	8.67	743135	11.15			0413_17.D
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
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FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN84181
 Lab Method / File Id: 39_AIR_0413.M / 0417_02.D Date Analyzed: 04/17/23
 Instrument ID: CHEM39 Time Analyzed: 12:14
 GC Column: RTX-1 ; #101 ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
REFERENCE STD	382388	7.51	1400507	8.68	656025	11.15			0417_02.D
UPPER LIMIT	537255	7.84	1967712	9.01	921715	11.48			0417_02.D
LOWER LIMIT	227521	7.18	833302	8.35	390335	10.82			0417_02.D
CLIENT ID									
01 CCAL 1	382388	7.51	1400507	8.68	656025	11.15			0417_02.D
02 CN84179 LCS	372174	7.51	1356923	8.67	665835	11.15			0417_04.D
03 CN84179 BLANK	381597	7.51	1390505	8.67	645617	11.15			0417_05.D
04 CN84179 QC	372264	7.50	1366674	8.67	634512	11.15			0417_09.D
05 84179 0.5x;2x dup	380844	7.51	1396824	8.67	651505	11.15			0417_10.D
06 SV-1	388833	7.51	1414135	8.67	655404	11.15			0417_11.D
07 SV-3 140X	380043	7.50	1377023	8.67	630094	11.14			0417_16.D
08									
09									
10									
11									
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20									
21									
22									

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FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN84181
 Lab Method / File Id: 39_AIR_0413.M / 0417_02.D Date Analyzed: 04/17/23
 Instrument ID: CHEM39 Time Analyzed: 12:14
 GC Column: RTX-1 ; #101 ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
REFERENCE STD	366260	7.51	1400205	8.68	656282	11.15			0417_02.D
UPPER LIMIT	514595	7.84	1967288	9.01	922076	11.48			0417_02.D
LOWER LIMIT	217925	7.18	833122	8.35	390488	10.82			0417_02.D
CLIENT ID									
01 CCAL 1	366260	7.51	1400205	8.68	656282	11.15			0417_02.D
02 CN84179 LCS	356616	7.51	1356923	8.67	665804	11.15			0417_04.D
03 CN84179 BLANK	361907	7.51	1390292	8.67	645617	11.15			0417_05.D
04 CN84179 QC	358305	7.50	1366674	8.67	634512	11.15			0417_09.D
05 84179 0.5x;2x dup	366331	7.51	1396824	8.67	651505	11.15			0417_10.D
06 SV-1	373352	7.51	1413774	8.67	655309	11.15			0417_11.D
07 SV-3 140X	364746	7.50	1376876	8.67	630094	11.14			0417_16.D
08									
09									
10									
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18									
19									
20									
21									
22									

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Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

FORM VIII VOA

1
AIR ANALYSIS DATA SHEET

CLIENT ID

SV-1

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN84181

Lab Sample ID: CN84181

Canister: 678

Lab File ID: 0417_11.D

Instrument: CHEM39 Column: TX-1 ; #10157

Date Received: 04/14/23

Purge Volume 200 (cc)

Date Analyzed: 04/17/23

Matrix: AIR

Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.473		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	2.76	S	0.531	0.531	r
67-64-1	Acetone	6.93	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.279		0.178	0.178	r
67-63-0	Isopropylalcohol	0.605	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	1.42		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.454		0.051	0.051	r
110-54-3	Hexane	1.21	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.680		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
79-01-6	Trichloroethene	0.966		0.037	0.037	r
142-82-5	Heptane	0.602		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	2.39		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.350		0.244	0.244	r
127-18-4	Tetrachloroethene	16.9		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.447		0.230	0.230	r
179601-23-1	m,p-Xylene	1.39		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.425		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.300		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

SV-1

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CN84181
Canister:	678	Lab File ID:	0417_11.D
Instrument:	CHEM39	Column:	TX-1 ; #10157
Date Received:	04/14/23		
Purge Volume	200	(cc)	04/17/23
Date Analyzed:	04/17/23		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	0.261		0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_11.D
 Acq On : 17 Apr 2023 5:56 pm
 Operator :
 Client ID : SV-1
 Lab ID : CN84181
 ALS Vial : 41 Sample Multiplier: 1

Quant Time: Apr 18 10:32:41 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.505	130	388833	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.670	114	1414135	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	655404	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	373352	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.670	114	1413774	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	655309	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.974	95	934644	10.237	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.40%

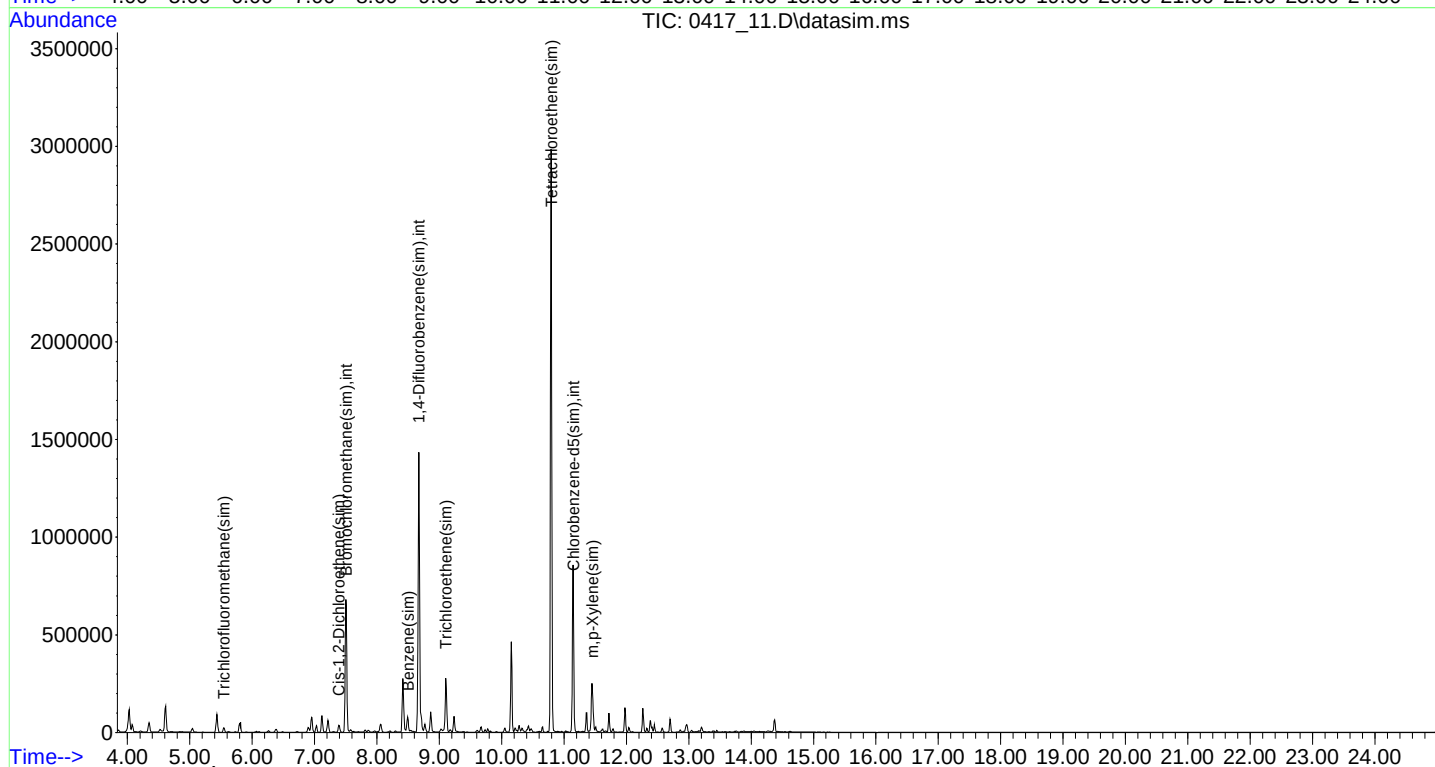
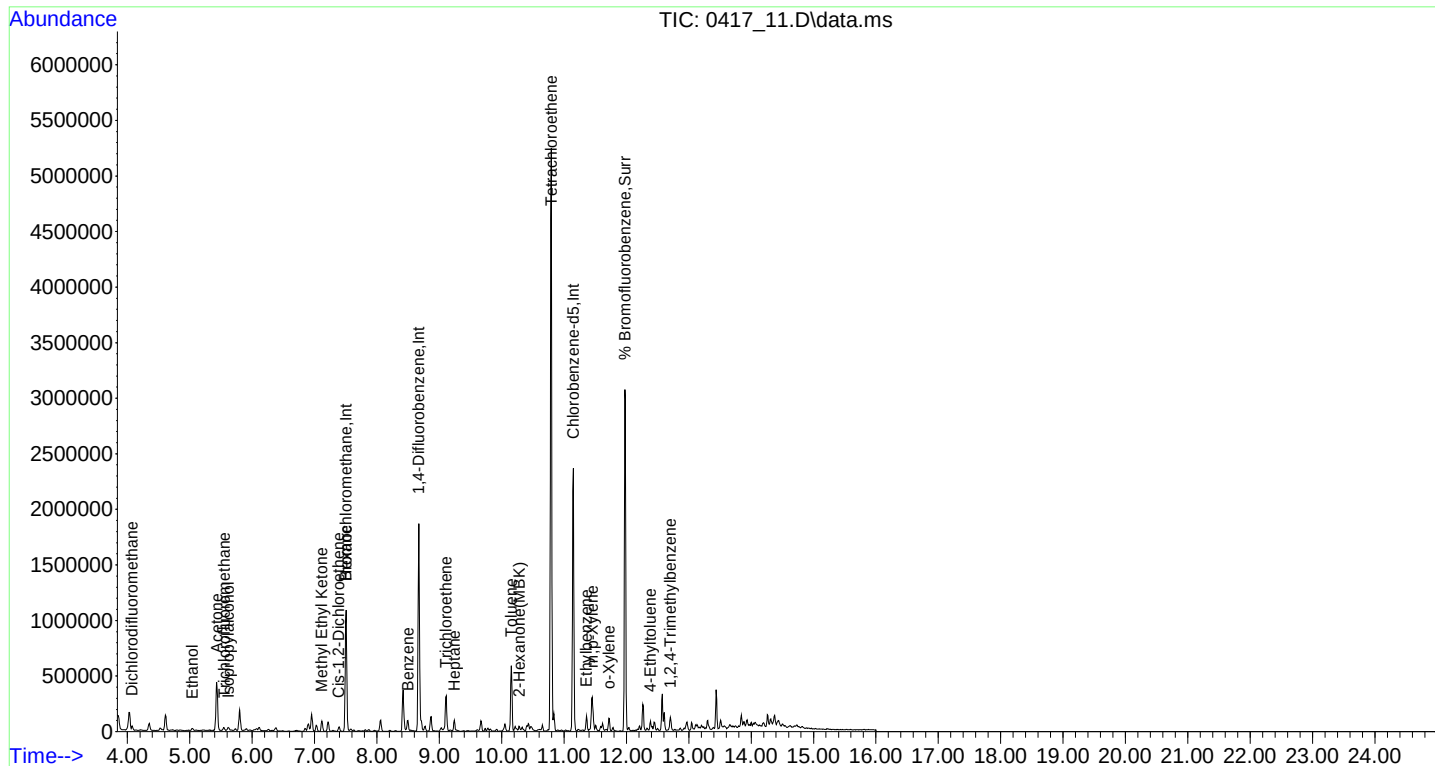
Target Compounds						Qvalue
3) Dichlorodifluoromethane	4.073	85	38518	0.473	ppbv	99
11) Ethanol	5.039	45	20611	2.756	ppbv	96
12) Acetone	5.431	43	272429	6.931	ppbv#	83
13) Trichlorofluoromethane	5.547	101	22499	0.279	ppbv	97
14) Isopropylalcohol	5.615	45	28136	0.605	ppbv	100
26) Methyl Ethyl Ketone	7.117	43	88565	1.420	ppbv	96
27) Cis-1,2-Dichloroethene	7.386	61	21437	0.454	ppbv	99
28) Hexane	7.505	57	63884	1.213	ppbv	100
34) Benzene	8.496	78	80883	0.680	ppbv	99
35) Carbon Tetrachloride	8.583	117	2443	0.030	ppbv	99
40) Trichloroethene	9.102	130	57722	0.966	ppbv	99
44) Heptane	9.240	43	35485	0.602	ppbv	98
49) Toluene	10.153	91	367491	2.385	ppbv	99
51) 2-Hexanone(MBK)	10.279	43	24689	0.350	ppbv#	95
53) Tetrachloroethene	10.793	166	1461542	16.882	ppbv	100
57) Ethylbenzene	11.360	91	81497	0.447	ppbv	98
58) m,p-Xylene	11.451	91	192665	1.392	ppbv	99
62) o-Xylene	11.716	91	61045	0.425	ppbv	99
67) 4-Ethyltoluene	12.384	105	62650	0.300	ppbv	97
69) 1,2,4-Trimethylbenzene	12.703	105	44902	0.261	ppbv#	88
85) Trichlorofluoromethane...	5.544	101	23160	0.285	ppbv#	100
88) Benzene(sim)	8.496	78	80883	0.601	ppbv	99
89) Carbon Tetrachloride(sim)	8.586	117	2304	0.030	ppbv	100
94) Cis-1,2-Dichloroethene...	7.386	61	21437	0.448	ppbv	99
99) Trichloroethene(sim)	9.105	130	55824	0.947	ppbv	100
105) Tetrachloroethene(sim)	10.796	166	1396617	16.059	ppbv	100
108) m,p-Xylene(sim)	11.451	91	193076	1.315	ppbv	99

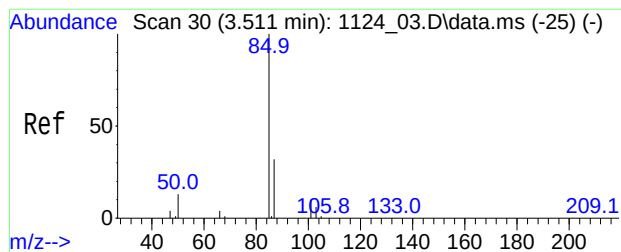
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_11.D
 Acq On : 17 Apr 2023 5:56 pm
 Operator :
 Client ID : SV-1
 Lab ID : CN84181
 ALS Vial : 41 Sample Multiplier: 1

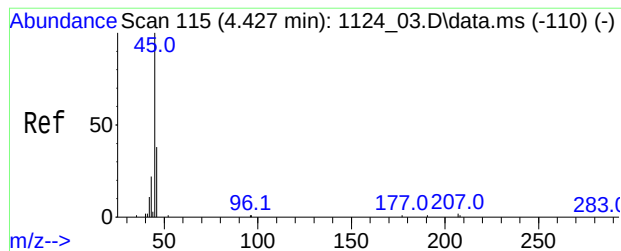
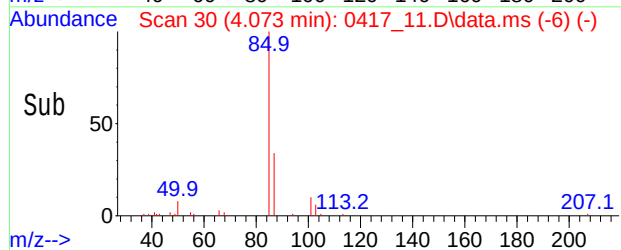
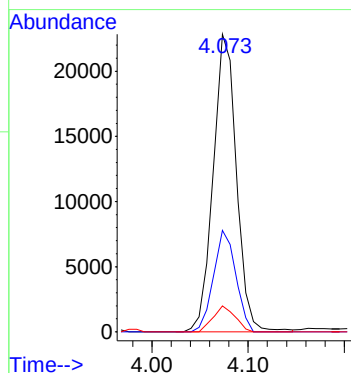
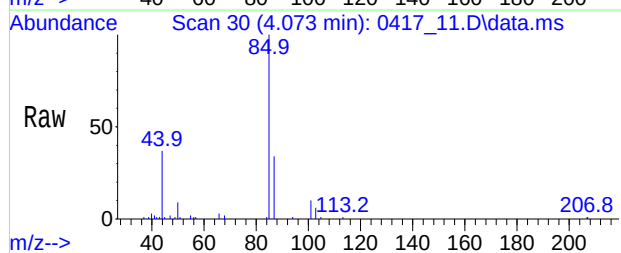
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 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration





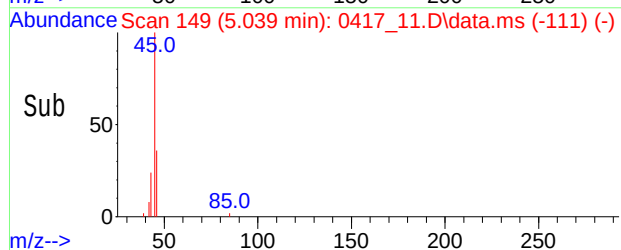
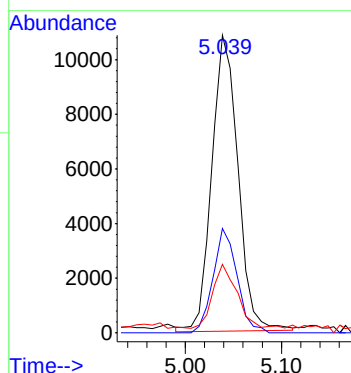
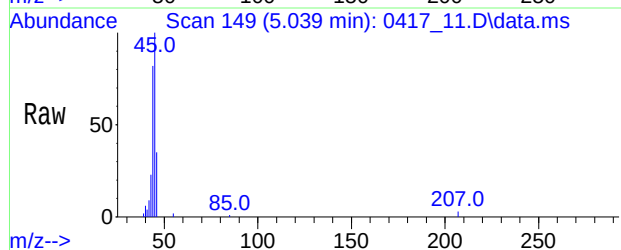
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.473 ppbv
 RT: 4.073 min Scan# 30
 Delta R.T. -0.008 min
 Lab File: 0417_11.D
 Acq: 17 Apr 2023 5:56 pm

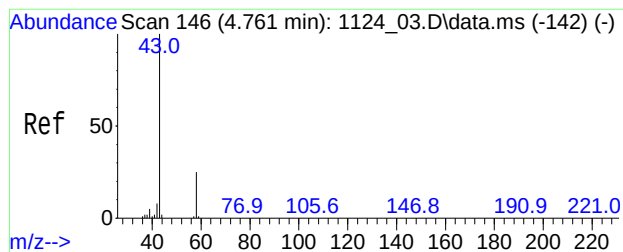
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.7	25.9	38.9
50	8.3	7.4	11.0



#11
 Ethanol
 Conc: 8\$ 2.756 ppbv
 RT: 5.039 min Scan# 149
 Delta R.T. 0.009 min
 Lab File: 0417_11.D
 Acq: 17 Apr 2023 5:56 pm

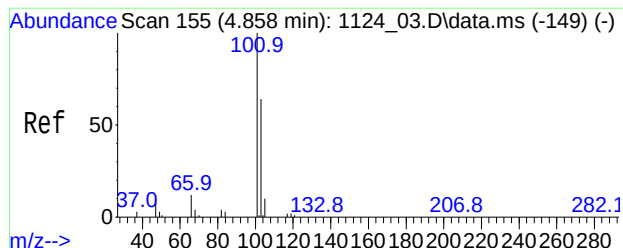
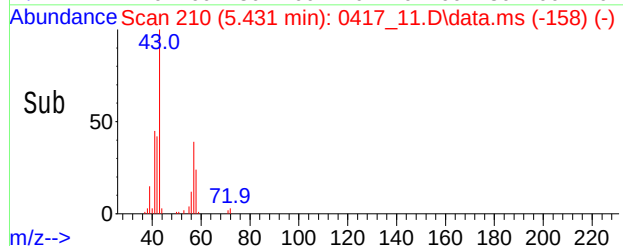
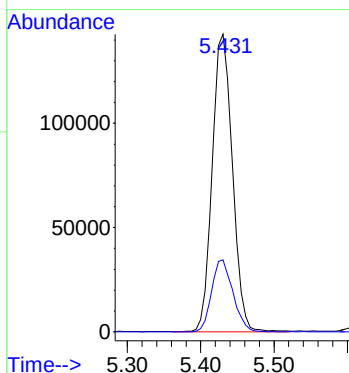
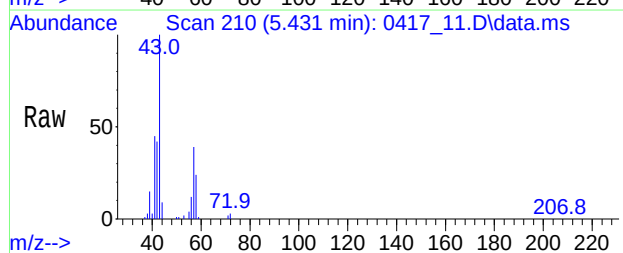
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.1	27.8	41.6
43	20.0	16.9	25.3





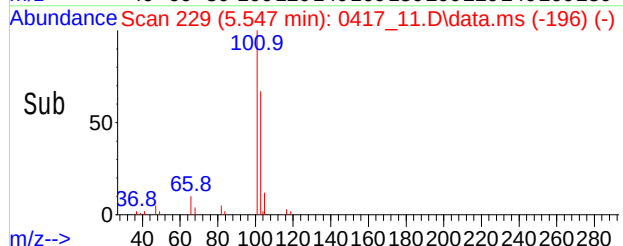
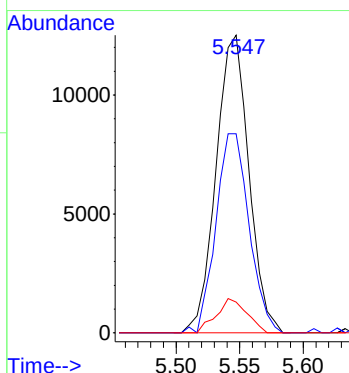
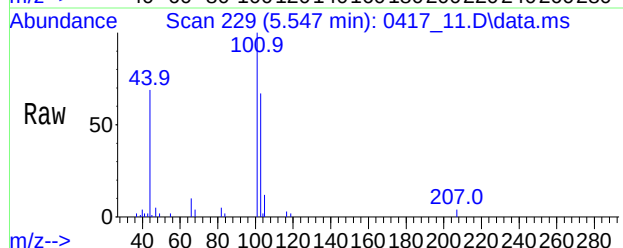
#12
Acetone
Conc: 8\$ 6.931 ppbv
RT: 5.431 min Scan# 210
Delta R.T. 0.019 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

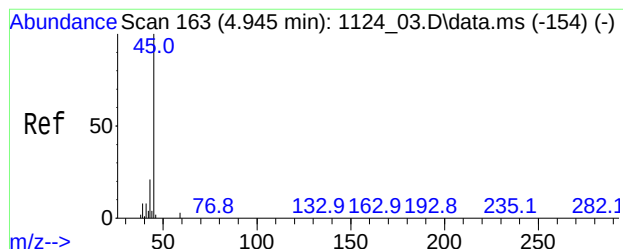
Tgt Ion: 43 Resp: 272429
Ion Ratio Lower Upper
43 100
58 25.4 28.3 42.5#



#13
Trichlorofluoromethane
Conc: 8\$ 0.279 ppbv
RT: 5.547 min Scan# 229
Delta R.T. 0.000 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

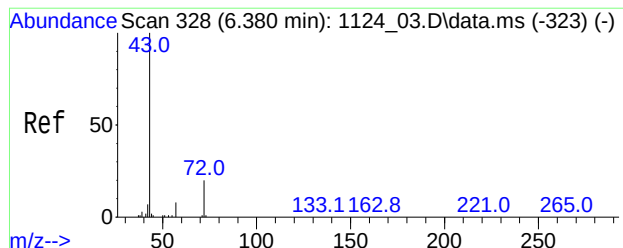
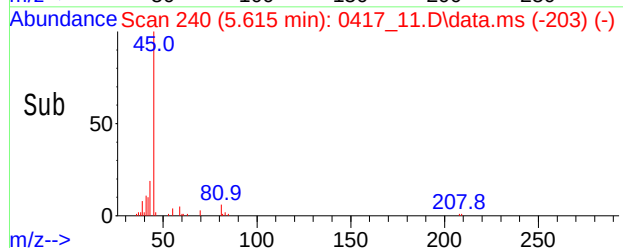
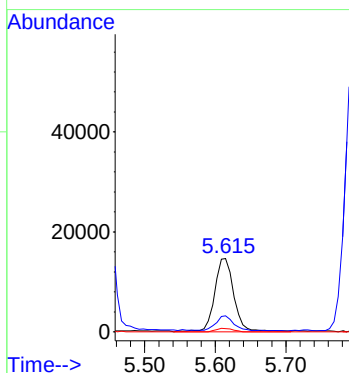
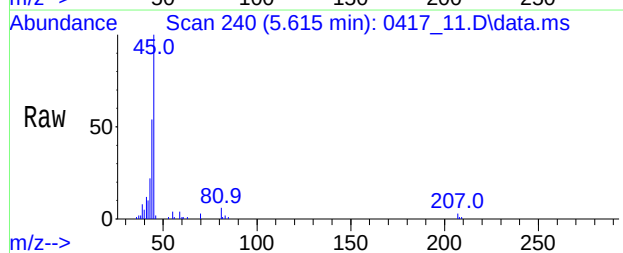
Tgt Ion: 101 Resp: 22499
Ion Ratio Lower Upper
101 100
103 67.7 52.1 78.1
66 10.6 8.6 12.8





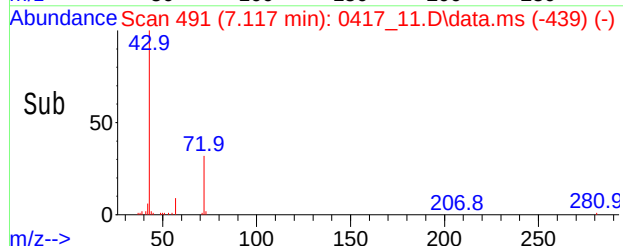
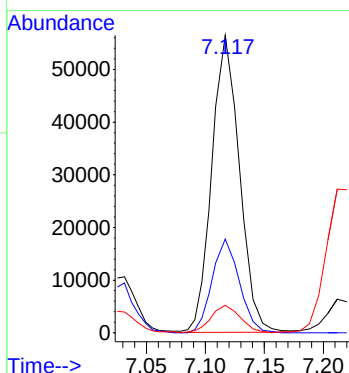
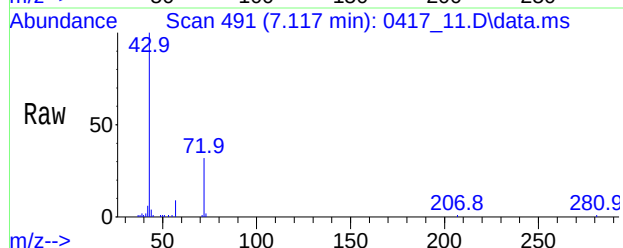
#14
Isopropylalcohol
Conc: 8\$ 0.605 ppbv
RT: 5.615 min Scan# 240
Delta R.T. 0.025 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

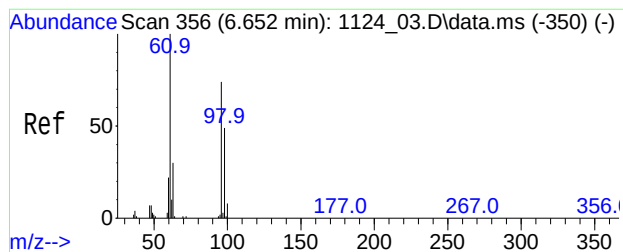
Tgt Ion	Ratio	Lower	Upper
45	100		
43	17.7	14.2	21.2
59	4.1	3.8	5.6



#26
Methyl Ethyl Ketone
Conc: 8\$ 1.420 ppbv
RT: 7.117 min Scan# 491
Delta R.T. 0.014 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

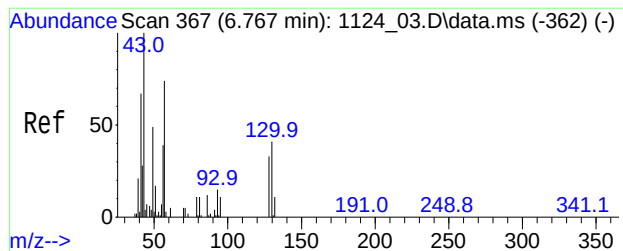
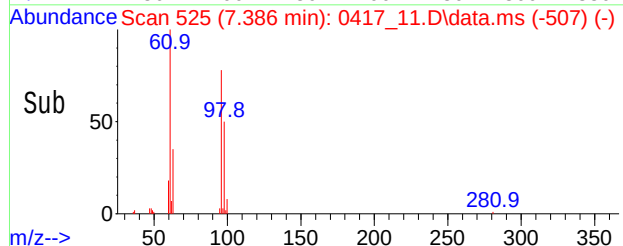
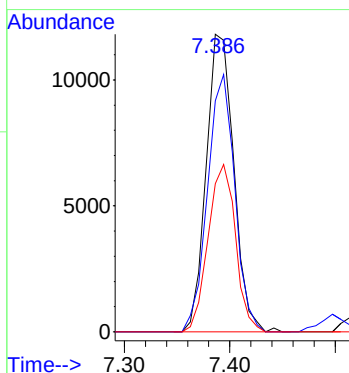
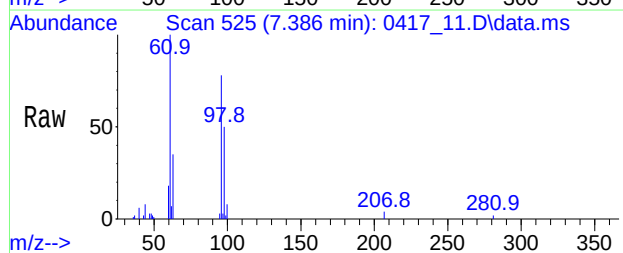
Tgt Ion	Ratio	Lower	Upper
43	100		
72	31.4	23.4	35.0
57	9.9	7.2	10.8





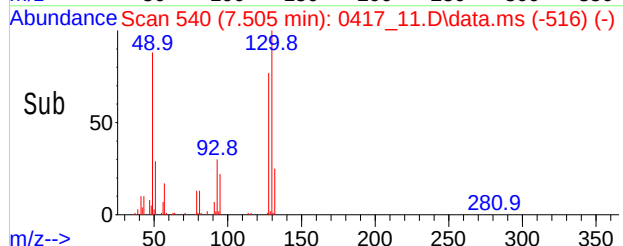
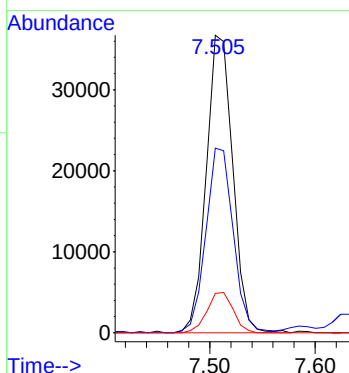
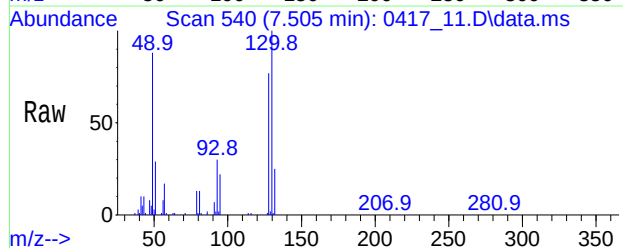
#27
Cis-1,2-Dichloroethene
Conc: 8\$ 0.454 ppbv
RT: 7.386 min Scan# 525
Delta R.T. -0.008 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

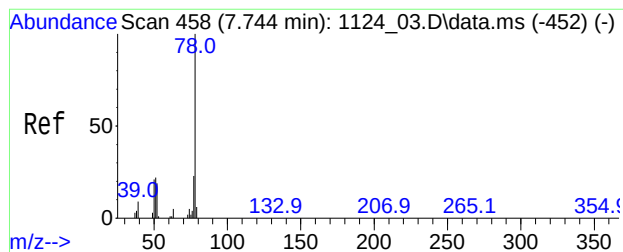
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	21437		
96	85.3	68.9	103.3	
98	55.7	44.7	67.1	



#28
Hexane
Conc: 8\$ 1.213 ppbv
RT: 7.505 min Scan# 540
Delta R.T. -0.008 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

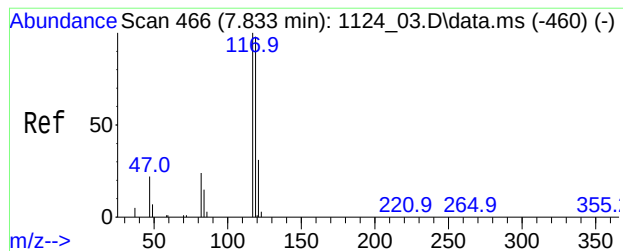
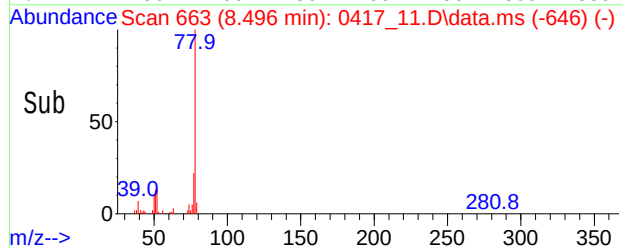
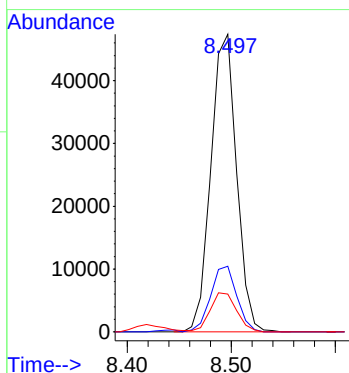
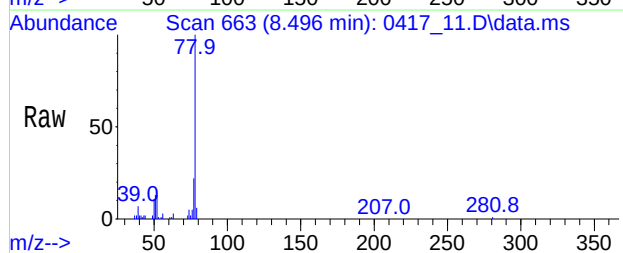
Tgt Ion	Ratio	Resp	Lower	Upper
57	100	63884		
41	64.4	51.7	77.5	
86	13.5	10.3	15.5	





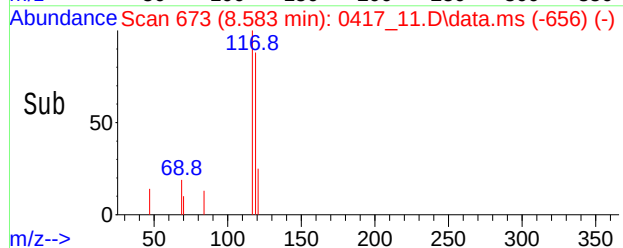
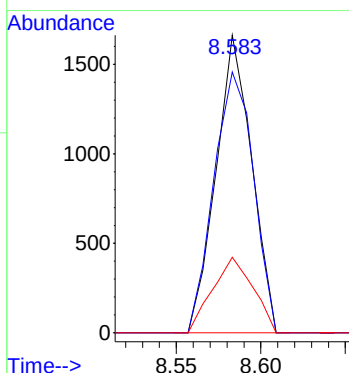
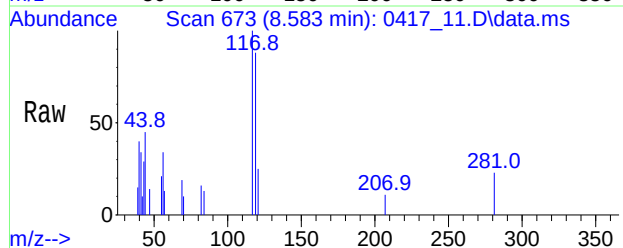
#34
Benzene
Conc: 8\$ 0.680 ppbv
RT: 8.496 min Scan# 663
Delta R.T. 0.000 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

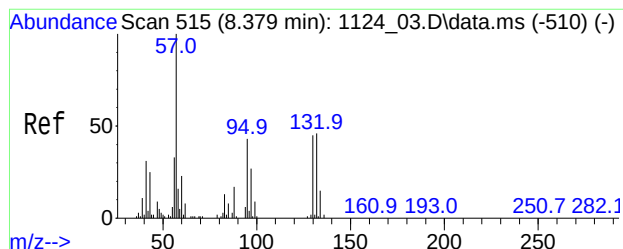
Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.6	27.8
51	13.4	11.0	16.4



#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.583 min Scan# 673
Delta R.T. 0.000 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

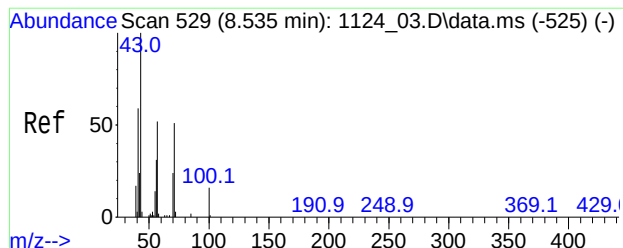
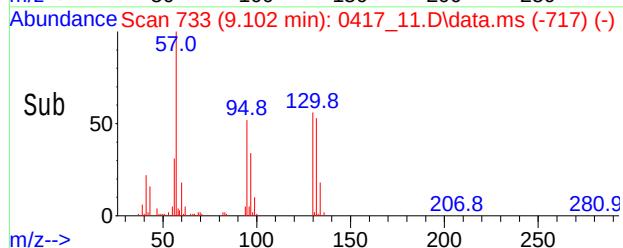
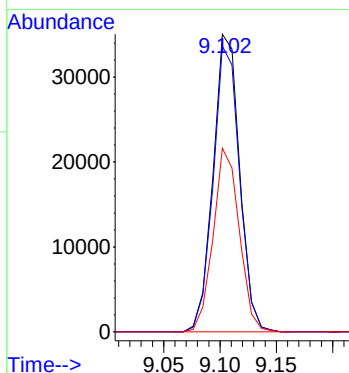
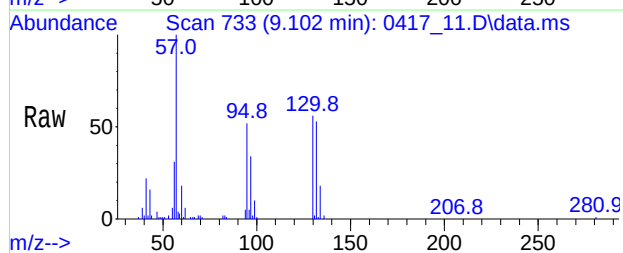
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.3	77.6	117.6
121	28.8	11.5	51.5





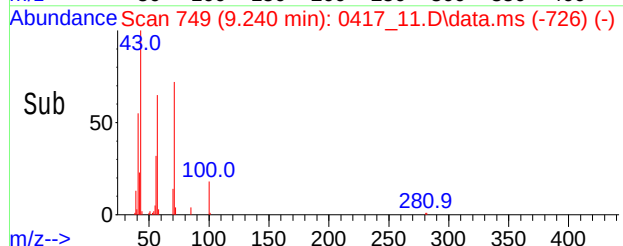
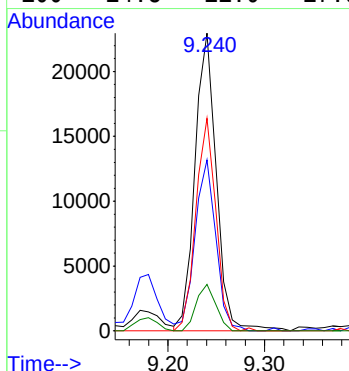
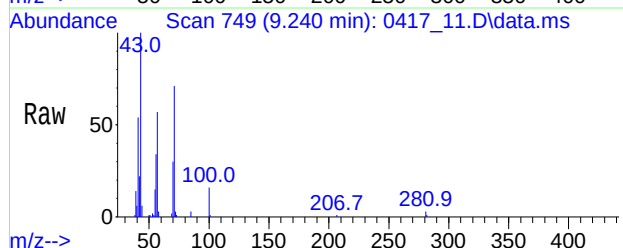
#40
Trichloroethene
Conc: 8\$ 0.966 ppbv
RT: 9.102 min Scan# 733
Delta R.T. -0.008 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

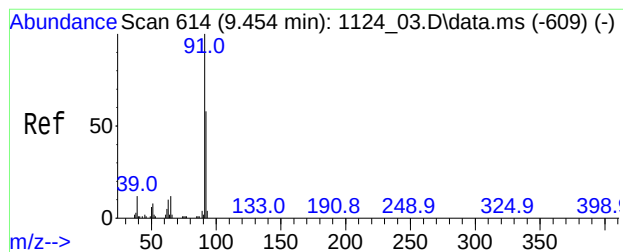
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	57722		
132	95.2	77.2	115.8	
97	60.4	48.3	72.5	



#44
Heptane
Conc: 8\$ 0.602 ppbv
RT: 9.240 min Scan# 749
Delta R.T. 0.000 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

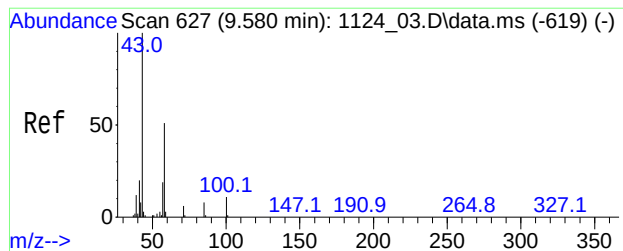
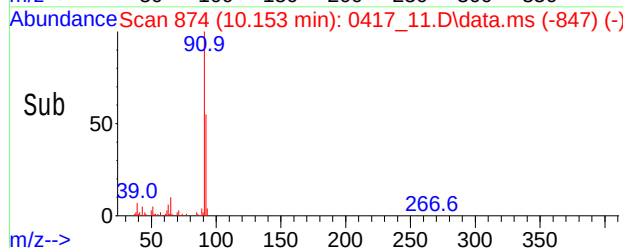
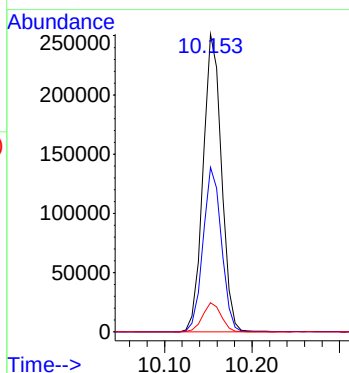
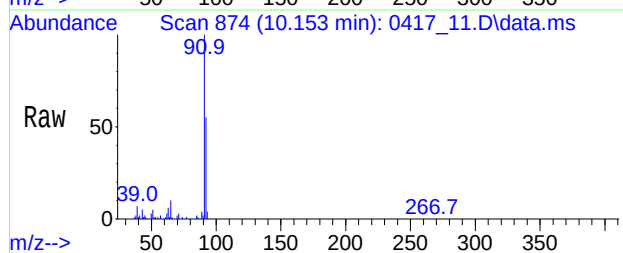
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	35485		
57	56.0	46.6	70.0	
71	66.9	53.2	79.8	
100	14.3	11.9	17.9	





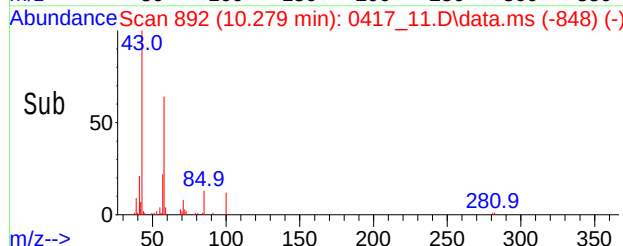
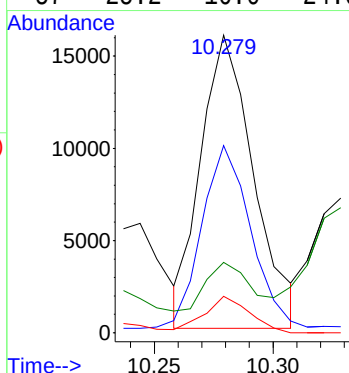
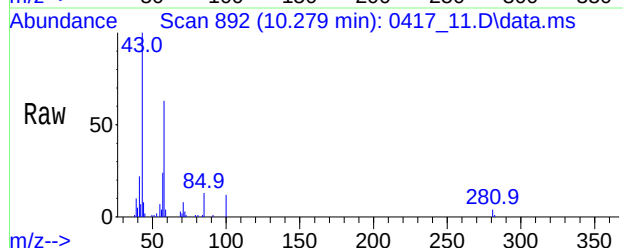
#49
Toluene
Conc: 8\$ 2.385 ppbv
RT: 10.153 min Scan# 874
Delta R.T. -0.007 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

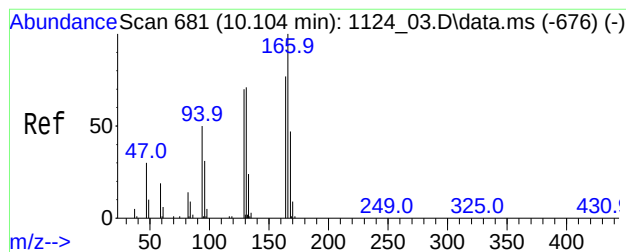
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	367491		
92	55.3	44.7	67.1	
65	9.9	8.1	12.1	



#51
2-Hexanone (MBK)
Conc: 8\$ 0.350 ppbv
RT: 10.279 min Scan# 892
Delta R.T. 0.007 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

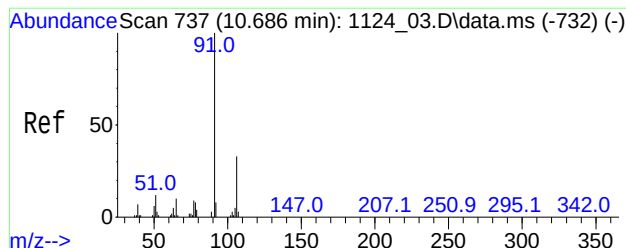
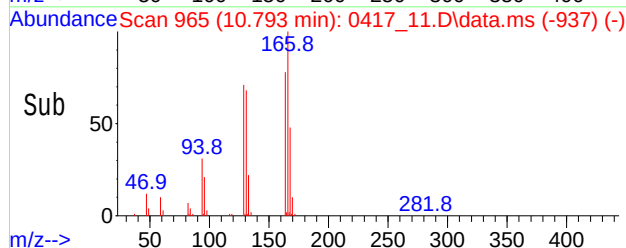
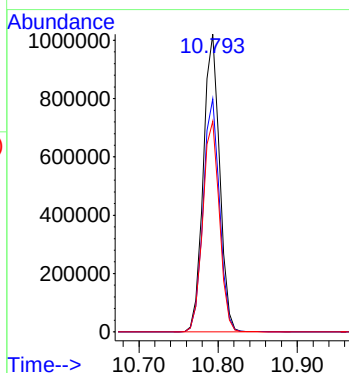
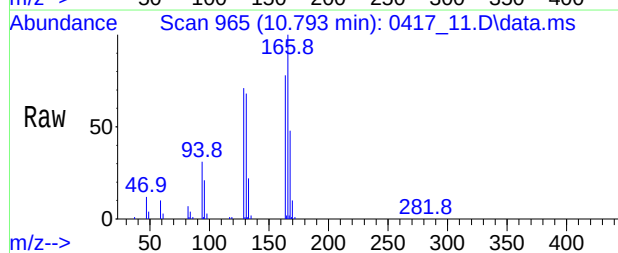
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	24689		
58	63.2	47.9	71.9	
100	10.5	8.4	12.6	
57	25.2	16.0	24.0	





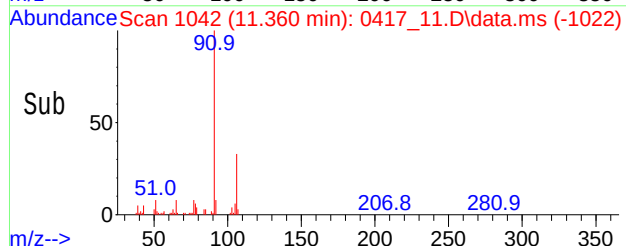
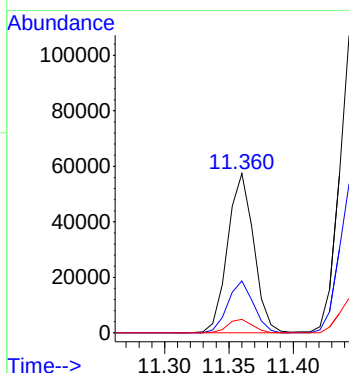
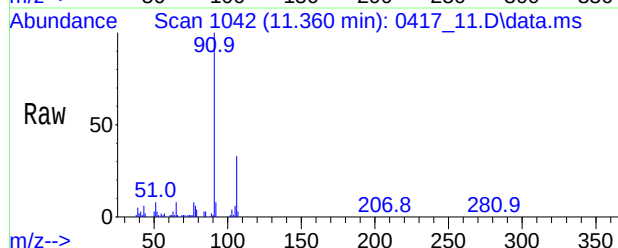
#53
Tetrachloroethene
Conc: 8\$ 16.882 ppbv
RT: 10.793 min Scan# 965
Delta R.T. 0.000 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

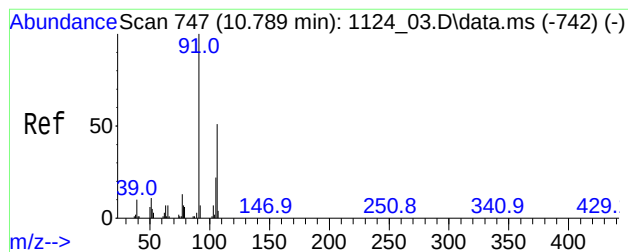
Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.5	62.5	93.7
129	71.9	57.4	86.2



#57
Ethylbenzene
Conc: 8\$ 0.447 ppbv
RT: 11.360 min Scan# 1042
Delta R.T. 0.000 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

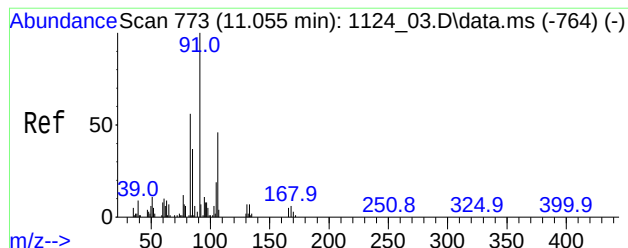
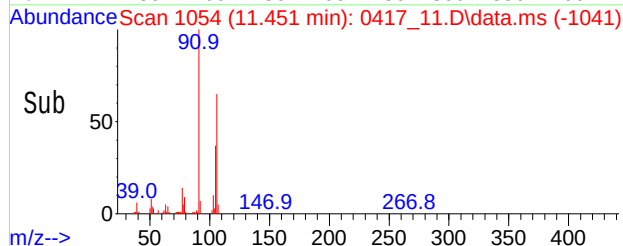
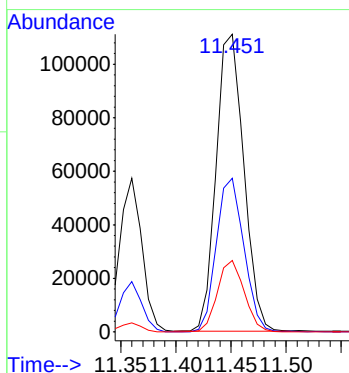
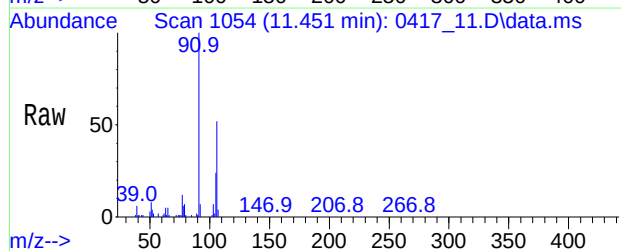
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.0	13.4	53.4
77	8.1	0.0	27.9





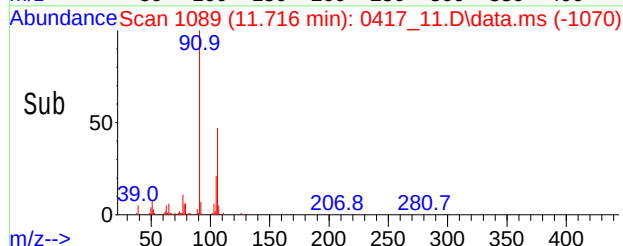
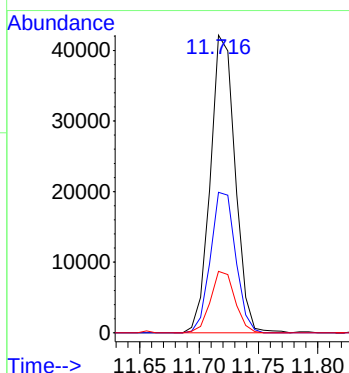
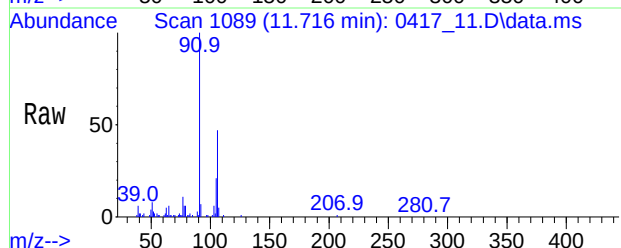
#58
m,p-Xylene
Conc: 8\$ 1.392 ppbv
RT: 11.451 min Scan# 1054
Delta R.T. 0.000 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

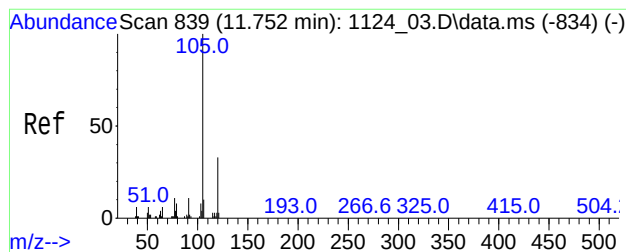
Tgt Ion: 91	Resp: 192665
Ion Ratio Lower Upper	
91 100	
106 51.6	40.6 61.0
105 23.4	19.3 28.9



#62
o-Xylene
Conc: 8\$ 0.425 ppbv
RT: 11.716 min Scan# 1089
Delta R.T. -0.007 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

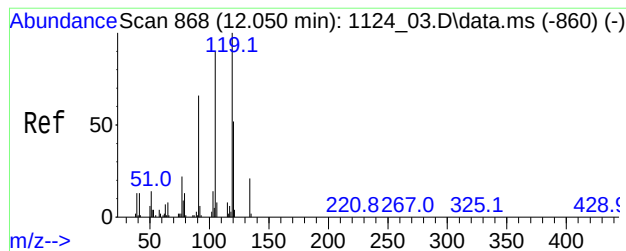
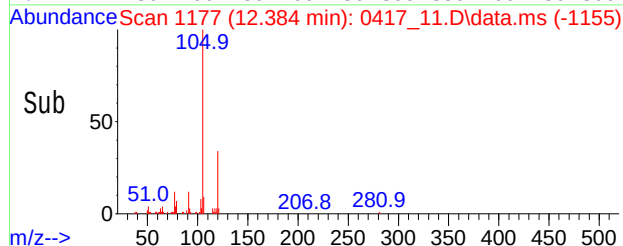
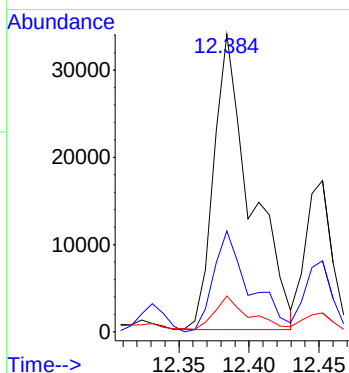
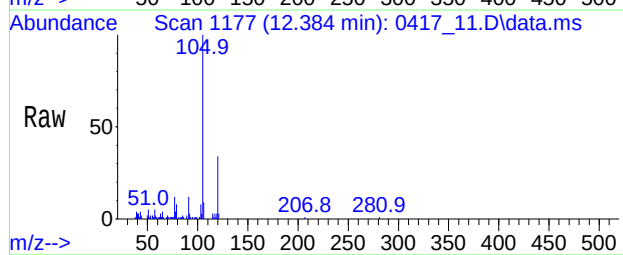
Tgt Ion: 91	Resp: 61045
Ion Ratio Lower Upper	
91 100	
106 48.0	38.9 58.3
105 20.4	16.3 24.5





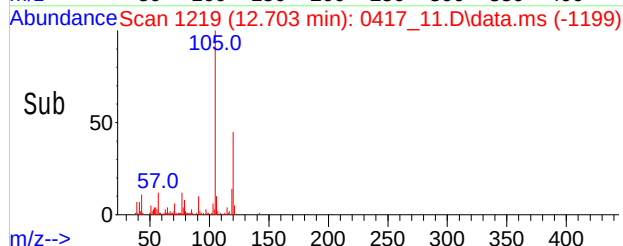
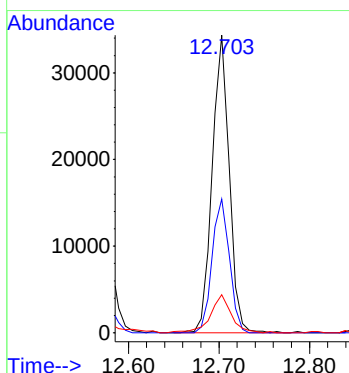
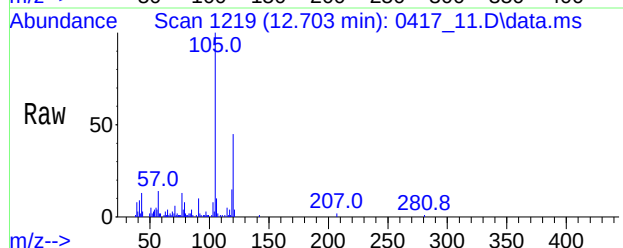
#67
4-Ethyltoluene
Conc: 8\$ 0.300 ppbv
RT: 12.384 min Scan# 1177
Delta R.T. -0.030 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

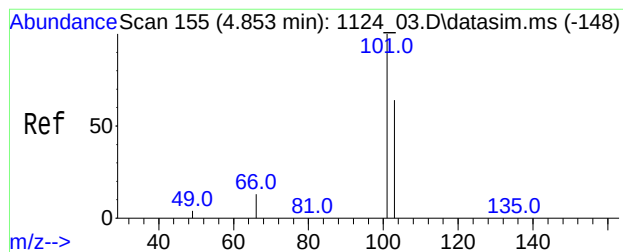
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	62650		
120	33.8	25.6	38.4	
77	9.6	8.1	12.1	



#69
1,2,4-Trimethylbenzene
Conc: 8\$ 0.261 ppbv
RT: 12.703 min Scan# 1219
Delta R.T. 0.000 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

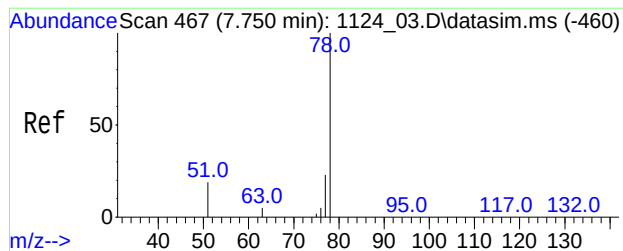
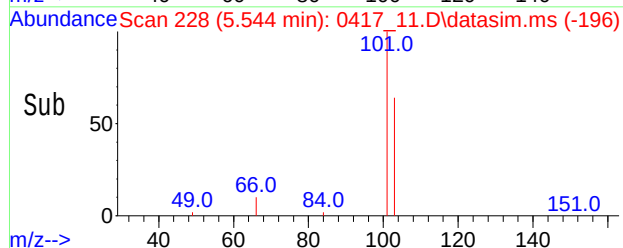
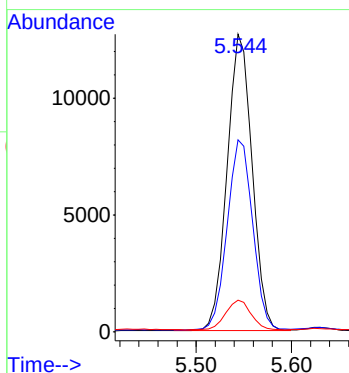
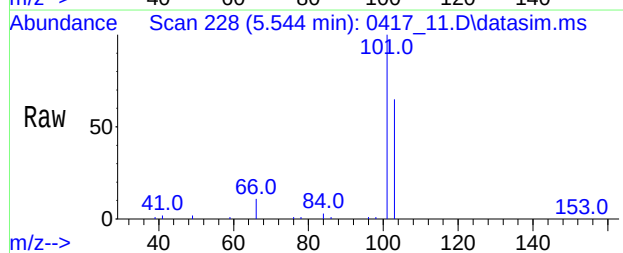
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	44902		
120	45.6	44.2	66.4	
77	15.9	16.4	24.6#	





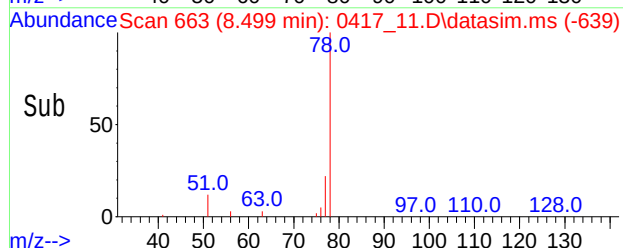
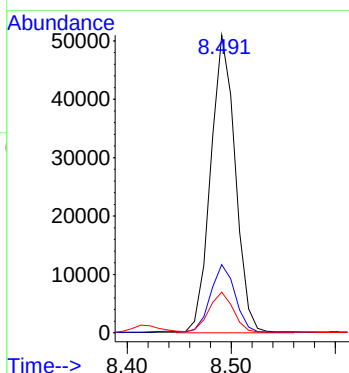
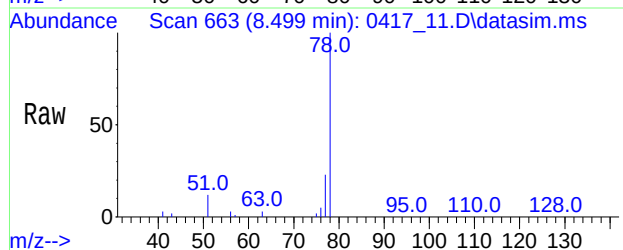
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.285 ppbv
RT: 5.544 min Scan# 228
Delta R.T. -0.006 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

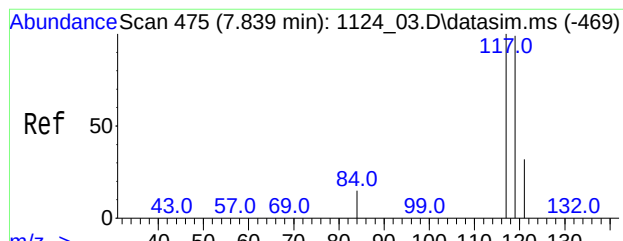
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	23160		
103	65.2	52.1	78.1	
66	10.0	10.8	10.8#	



#88
Benzene(sim)
Conc: 8\$ 0.601 ppbv
RT: 8.496 min Scan# 663
Delta R.T. 0.000 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

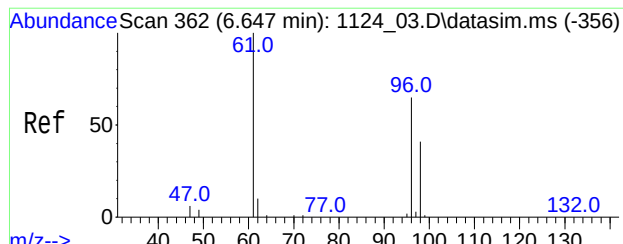
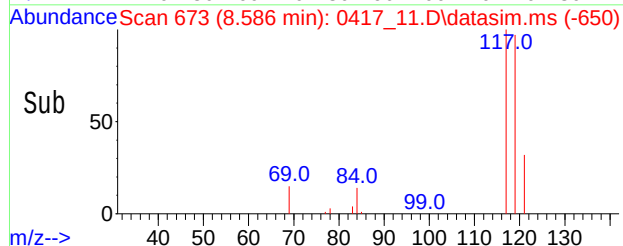
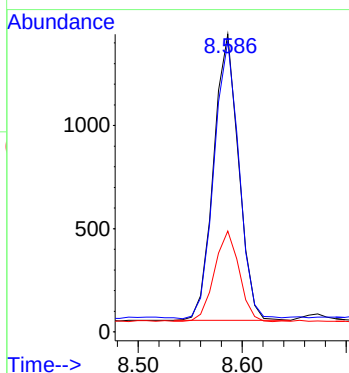
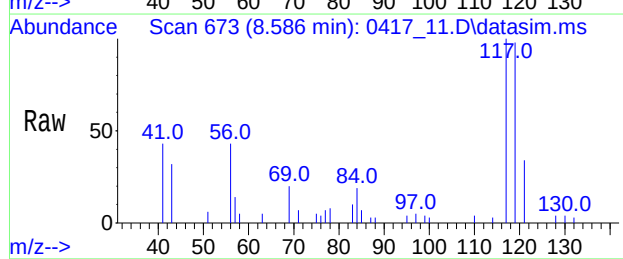
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	80883		
77	22.5	18.6	27.8	
51	13.4	11.0	16.4	





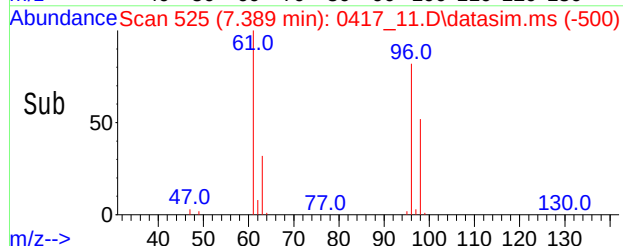
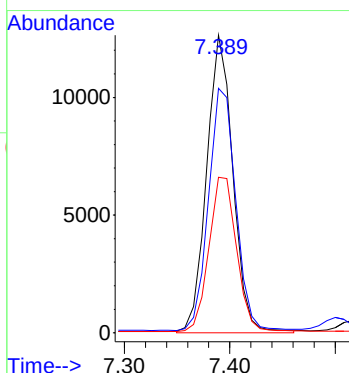
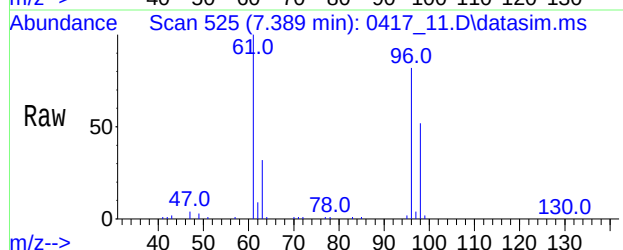
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.030 ppbv
RT: 8.586 min Scan# 673
Delta R.T. 0.000 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

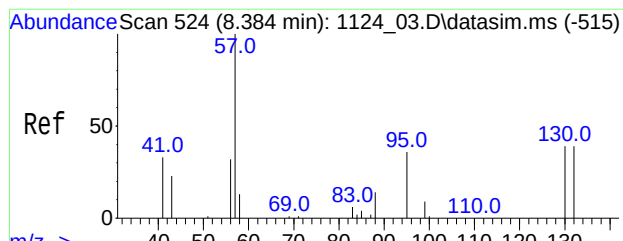
Tgt Ion: 117 Resp: 2304
Ion Ratio Lower Upper
117 100
119 96.5 77.6 116.4
121 31.4 25.0 37.6



#94
Cis-1,2-Dichloroethene(sim)
Conc: 8\$ 0.448 ppbv
RT: 7.386 min Scan# 525
Delta R.T. -0.008 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

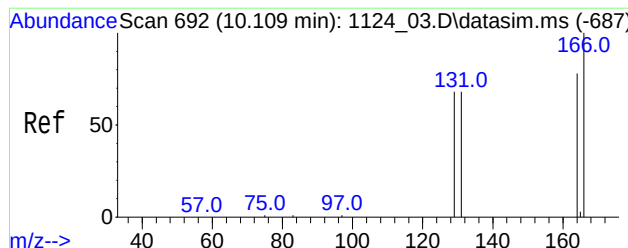
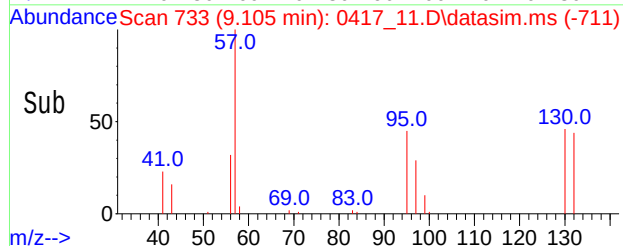
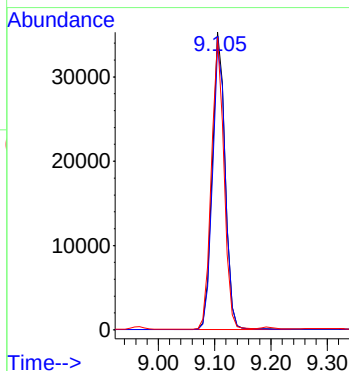
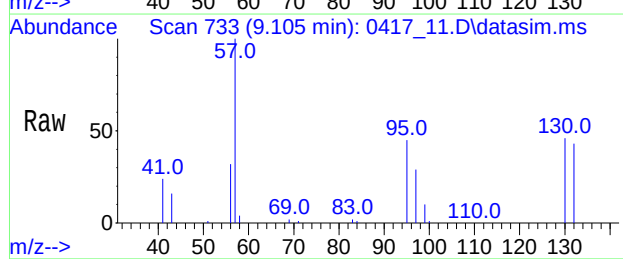
Tgt Ion: 61 Resp: 21437
Ion Ratio Lower Upper
61 100
96 85.3 68.9 103.3
98 55.2 44.7 67.1





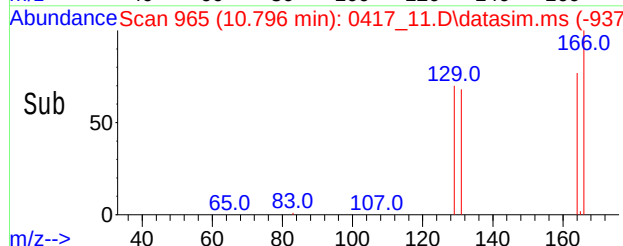
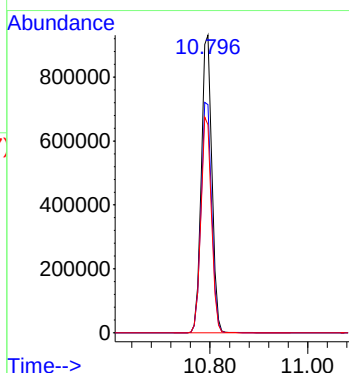
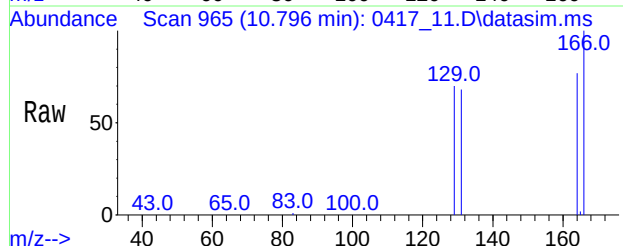
#99
Trichloroethene(sim)
Conc: 8\$ 0.947 ppbv
RT: 9.105 min Scan# 733
Delta R.T. -0.008 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

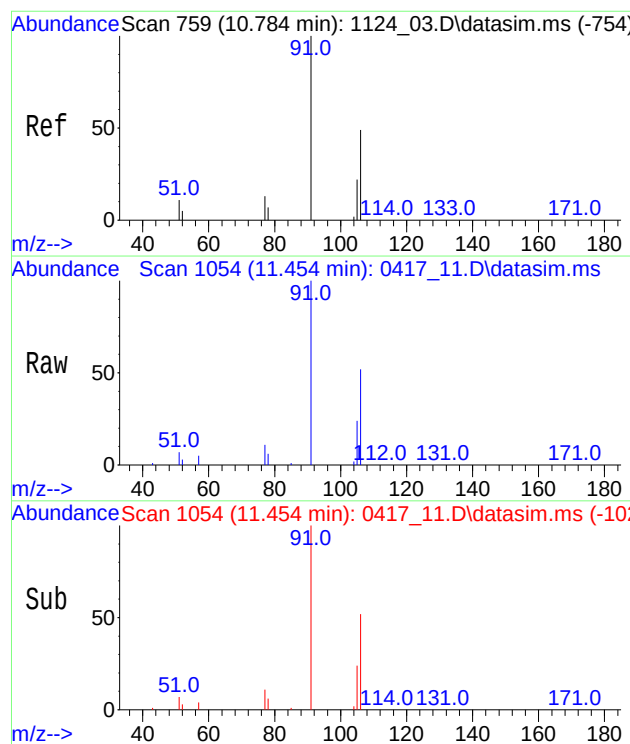
Tgt Ion	Ratio	Lower	Upper
130	100		
132	96.2	76.9	115.3
95	95.7	76.8	115.2



#105
Tetrachloroethene(sim)
Conc: 8\$ 16.059 ppbv
RT: 10.796 min Scan# 965
Delta R.T. 0.000 min
Lab File: 0417_11.D
Acq: 17 Apr 2023 5:56 pm

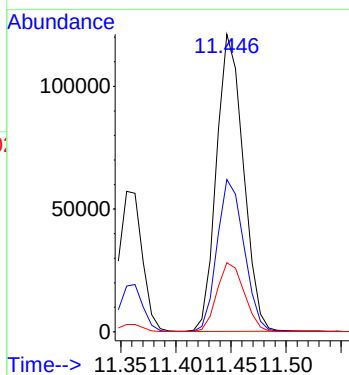
Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.2	58.0	98.0
129	72.4	52.6	92.6





#108
 m,p-Xylene(sim)
 Conc: 8\$ 1.315 ppbv
 RT: 11.451 min Scan# 1054
 Delta R.T. 0.000 min
 Lab File: 0417_11.D
 Acq: 17 Apr 2023 5:56 pm

Tgt	Ion: 91	Resp: 193076	
	Ratio	Lower	Upper
91	100		
106	51.6	45.7	55.9
105	23.3	19.3	28.9



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SV-3

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN84181 Lab Sample ID: CN84182

Canister: 719 Lab File ID: 0414_35.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/14/23

Purge Volume 200 (cc) Date Analyzed: 04/15/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.494		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	3.56	S	0.531	0.531	r
67-64-1	Acetone	2.61	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.280		0.178	0.178	r
67-63-0	Isopropylalcohol	0.561	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
75-34-3	1,1-Dichloroethane	0.397		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.217		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-55-6	1,1,1-Trichloroethane	29.5		0.183	0.183	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
79-01-6	Trichloroethene	1.23		0.037	0.037	r
142-82-5	Heptane	0.453		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.493		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	258	E	0.037	0.037	
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

SV-3

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN84181

Lab Sample ID: CN84182

Canister: 719

Lab File ID: 0414_35.D

Instrument: CHEM20 Column: RTX-1 60M

Date Received: 04/14/23

Purge Volume 200 (cc)

Date Analyzed: 04/15/23

Matrix: AIR

Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.090		0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.237		0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_35.D
 Acq On : 15 Apr 2023 5:13 am
 Operator :
 Client ID : SV-3
 Lab ID : CN84182
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 16 19:20:14 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.535	130	294228	10.000	ng	0.01
37) 1,4-Difluorobenzene	8.680	114	1068971	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	487978	10.000	ng	0.00
81) Bromochloromethane(sim)	7.541	130	325366	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1068205	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	487978	10.000	ng	0.00

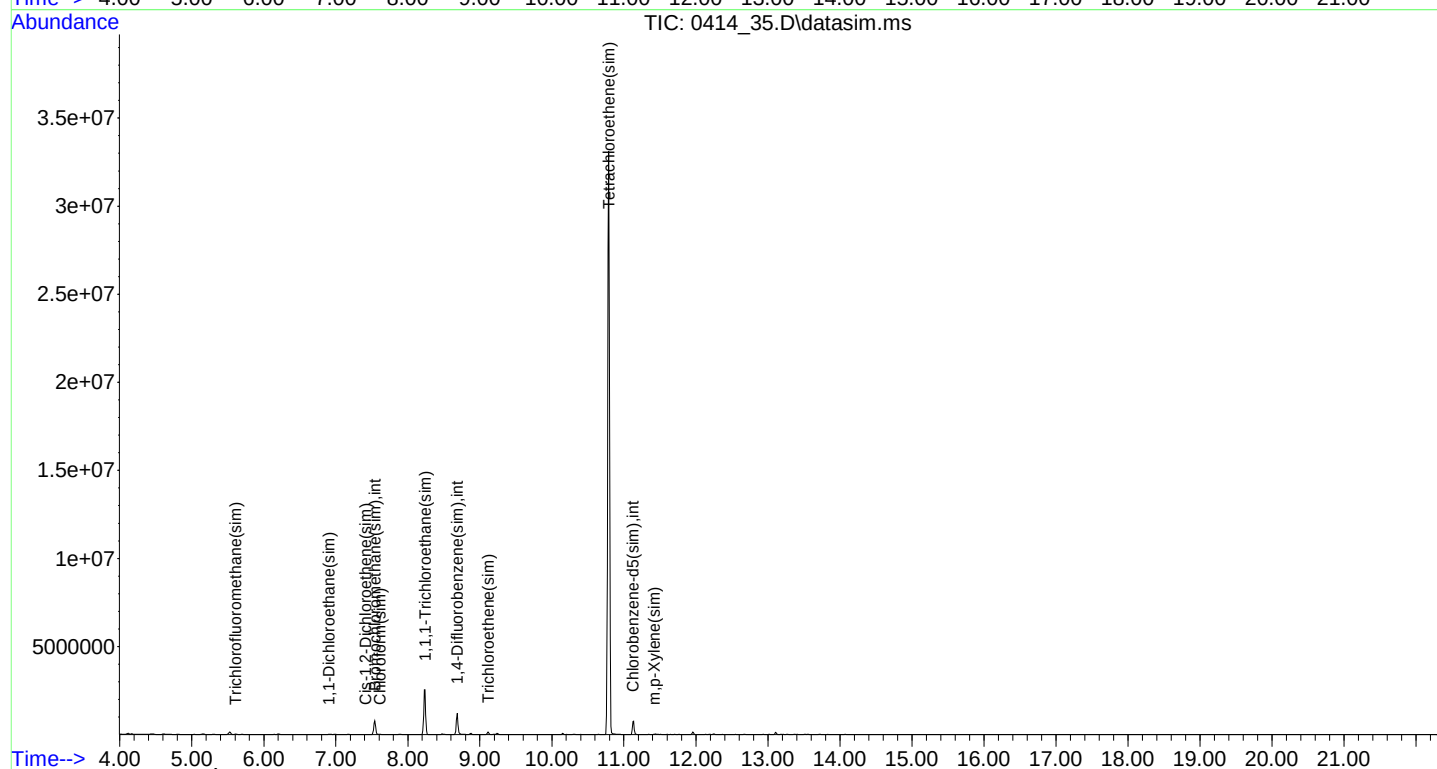
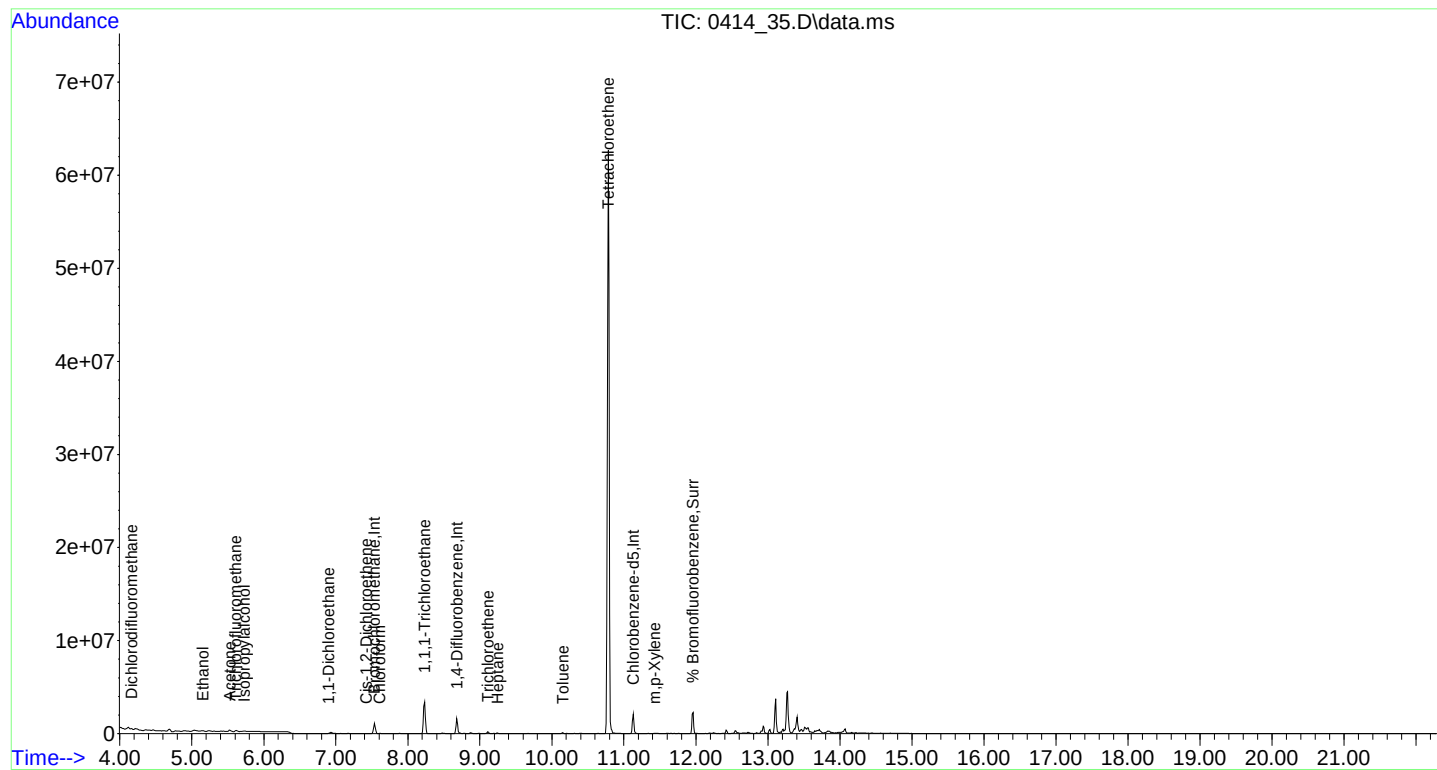
System Monitoring Compounds						
63) % Bromofluorobenzene	11.960	95	681118	10.221	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.20%

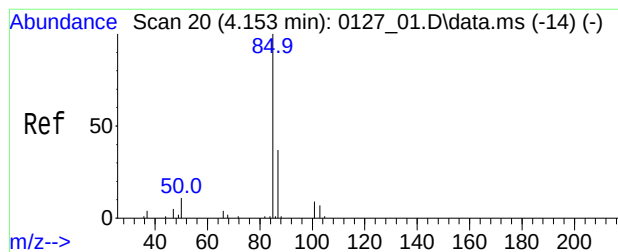
Target Compounds						Qvalue
3) Dichlorodifluoromethane	4.160	85	34306	0.494	ppbv	98
11) Ethanol	5.152	45	47719	3.555	ppbv#	85
12) Acetone	5.529	43	176672	2.614	ppbv	95
13) Trichlorofluoromethane	5.605	101	20860	0.280	ppbv	93
14) Isopropylalcohol	5.730	45	33977	0.561	ppbv#	97
23) 1,1-Dichloroethane	6.896	63	23552	0.397	ppbv	94
26) Methyl Ethyl Ketone	7.172	43	34750	0.337	ppbv	97
27) Cis-1,2-Dichloroethene	7.421	61	5308	0.103	ppbv	95
29) Chloroform	7.608	83	13499	0.217	ppbv	91
33) 1,1,1-Trichloroethane	8.233	97	2162425	29.453	ppbv#	89
35) Carbon Tetrachloride	8.600	117	1723	0.027	ppbv	94
40) Trichloroethene	9.110	130	54043	1.226	ppbv	97
44) Heptane	9.245	43	42000	0.453	ppbv#	92
49) Toluene	10.153	91	55702	0.493	ppbv	95
53) Tetrachloroethene	10.784	166	15621941	258.203	ppbv	93
58) m,p-Xylene	11.427	91	25919	0.250	ppbv	95
85) Trichlorofluoromethane...	5.610	101	21847	0.283	ppbv#	97
87) 1,1,1-Trichloroethane...	8.239	97	2067193	28.781	ppbv#	98
93) 1,1-Dichloroethane(sim)	6.902	63	26218	0.384	ppbv	100
94) Cis-1,2-Dichloroethene...	7.421	61	5308	0.090	ppbv	95
95) Chloroform(sim)	7.614	83	13657	0.201	ppbv	97
99) Trichloroethene(sim)	9.115	130	60201	1.113	ppbv	99
105) Tetrachloroethene(sim)	10.789	166	16204872	204.448	ppbv	89
108) m,p-Xylene(sim)	11.427	91	27705	0.237	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0414_35.D
Acq On : 15 Apr 2023 5:13 am
Operator :
Client ID : SV-3
Lab ID : CN84182
ALS Vial : 28 Sample Multiplier: 1

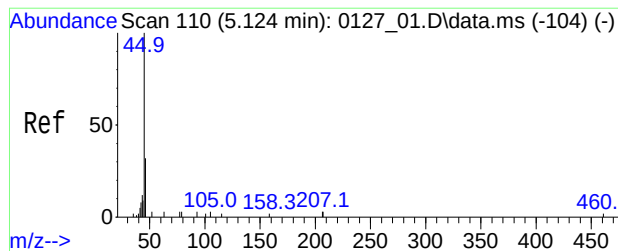
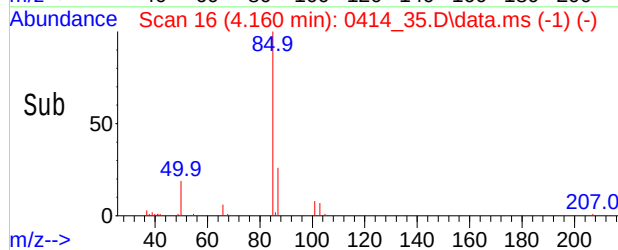
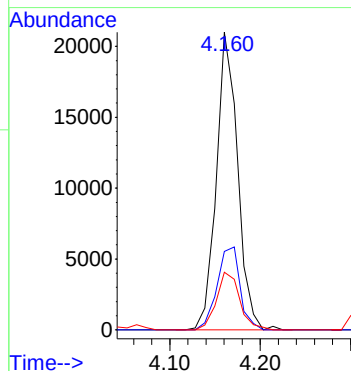
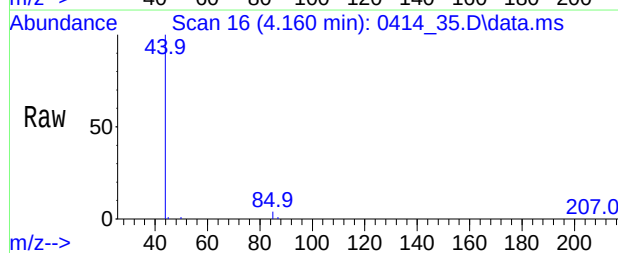
Quant Time: Apr 16 19:20:14 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration





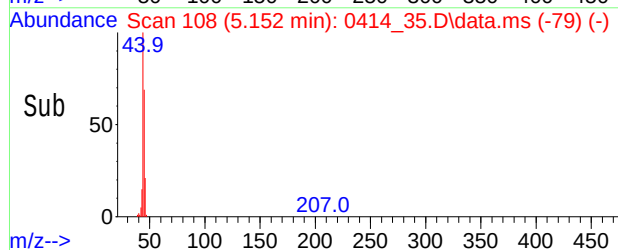
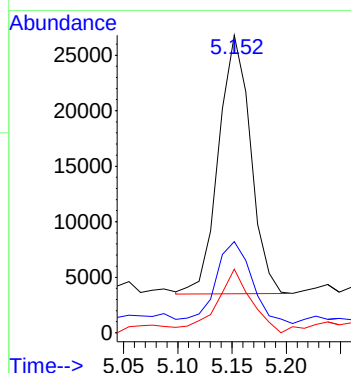
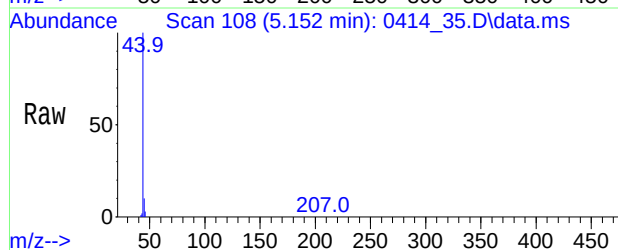
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.494 ppbv
 RT: 4.160 min Scan# 16
 Delta R.T. -0.011 min
 Lab File: 0414_35.D
 Acq: 15 Apr 2023 5:13 am

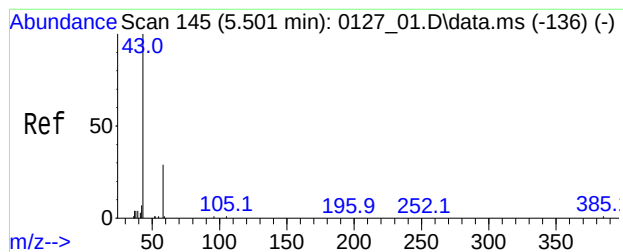
Tgt Ion:	85	Resp:	34306
Ion Ratio	Lower	Upper	
85	100		
87	30.2	25.1	37.7
50	21.3	18.1	27.1



#11
 Ethanol
 Conc: 8\$ 3.555 ppbv
 RT: 5.152 min Scan# 108
 Delta R.T. 0.011 min
 Lab File: 0414_35.D
 Acq: 15 Apr 2023 5:13 am

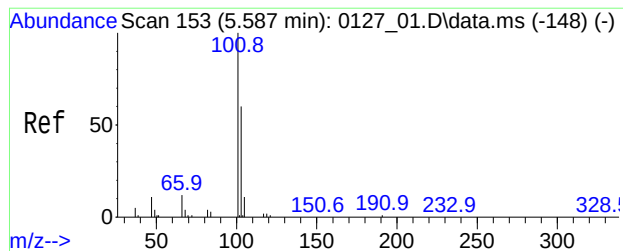
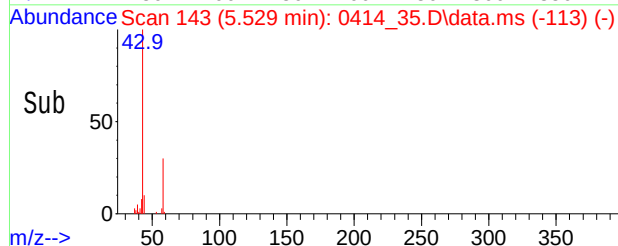
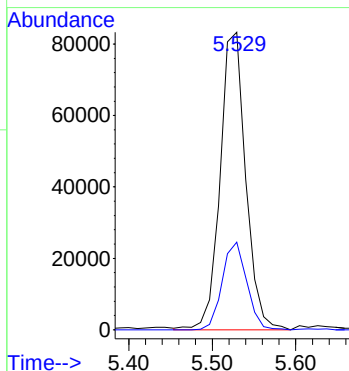
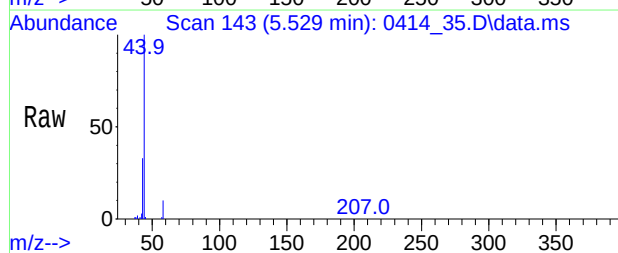
Tgt Ion:	45	Resp:	47719
Ion Ratio	Lower	Upper	
45	100		
46	35.8	25.1	37.7
43	26.4	31.4	47.2#





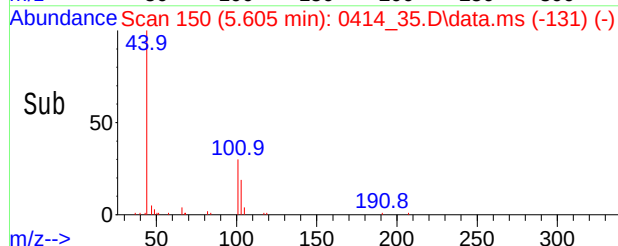
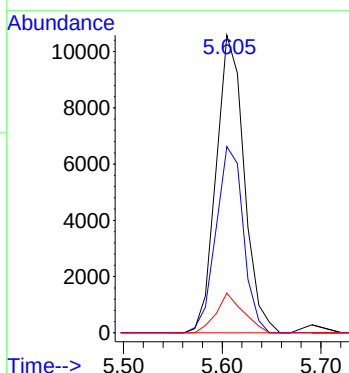
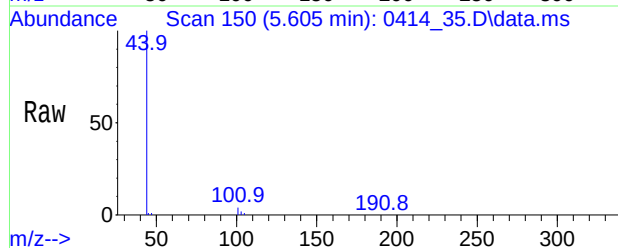
#12
Acetone
Conc: 8\$ 2.614 ppbv
RT: 5.529 min Scan# 143
Delta R.T. 0.021 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

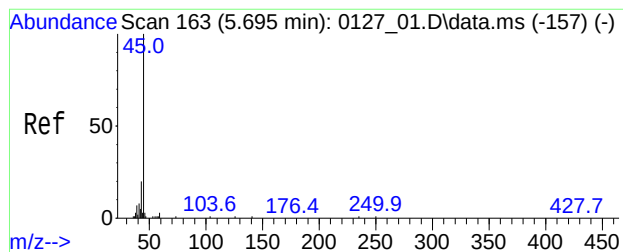
Tgt Ion: 43 Resp: 176672
Ion Ratio Lower Upper
43 100
58 28.2 20.6 30.8



#13
Trichlorofluoromethane
Conc: 8\$ 0.280 ppbv
RT: 5.605 min Scan# 150
Delta R.T. -0.000 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

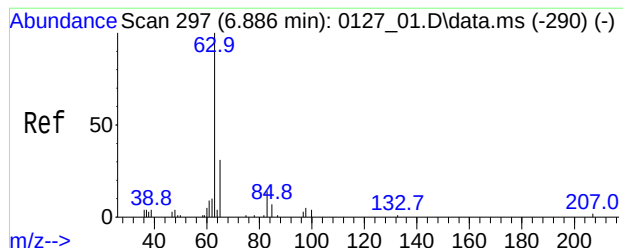
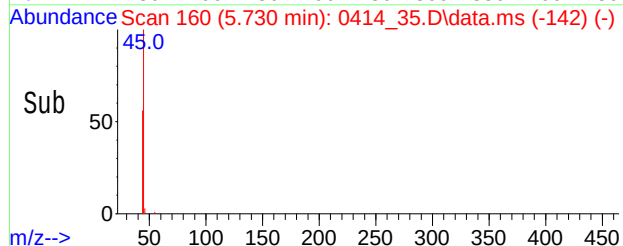
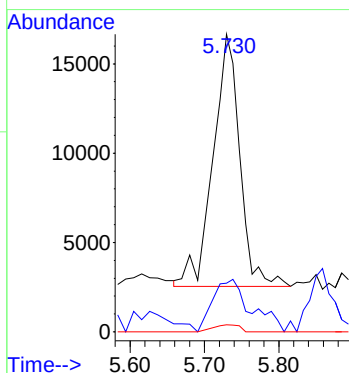
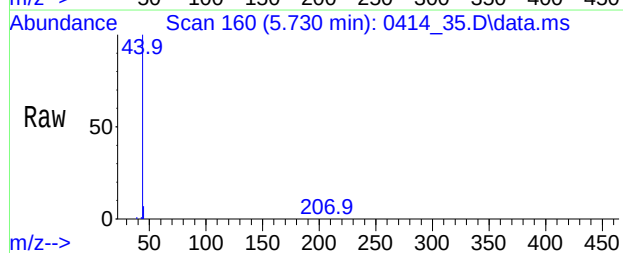
Tgt Ion: 101 Resp: 20860
Ion Ratio Lower Upper
101 100
103 61.4 53.8 80.8
66 12.9 12.9 19.3





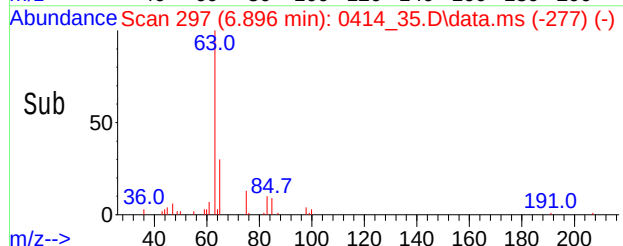
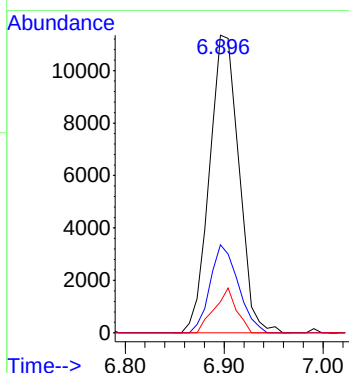
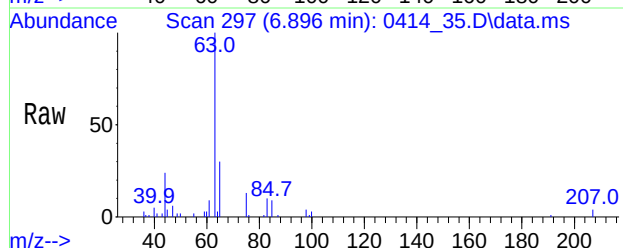
#14
Isopropylalcohol
Conc: 8\$ 0.561 ppbv
RT: 5.730 min Scan# 160
Delta R.T. 0.009 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

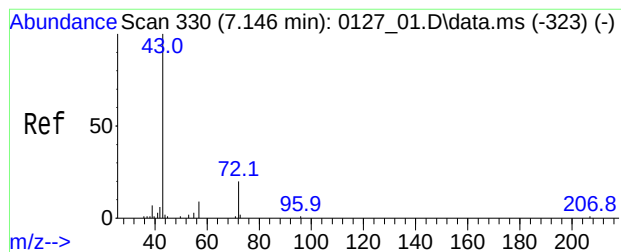
Tgt Ion: 45 Resp: 33977
Ion Ratio Lower Upper
45 100
43 21.0 15.9 23.9
59 3.1 3.6 5.4#



#23
1,1-Dichloroethane
Conc: 8\$ 0.397 ppbv
RT: 6.896 min Scan# 297
Delta R.T. 0.008 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

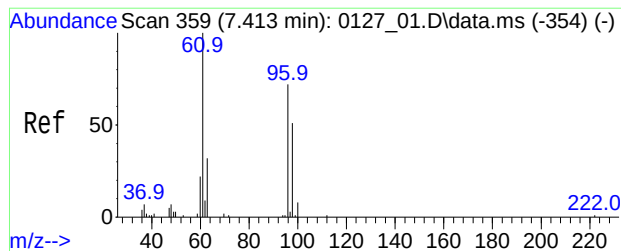
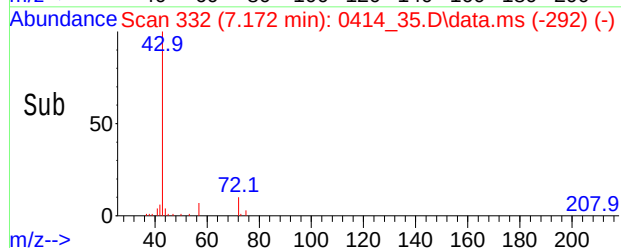
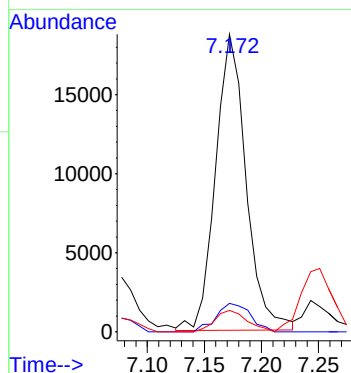
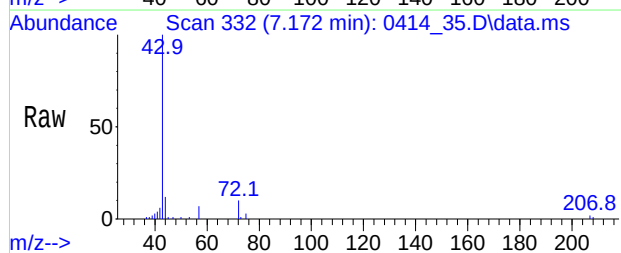
Tgt Ion: 63 Resp: 23552
Ion Ratio Lower Upper
63 100
65 28.2 11.5 51.5
83 11.2 0.0 34.2





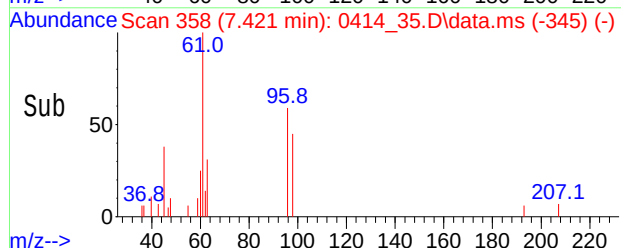
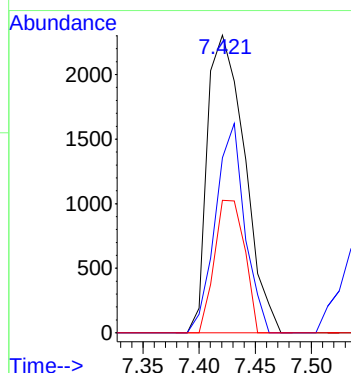
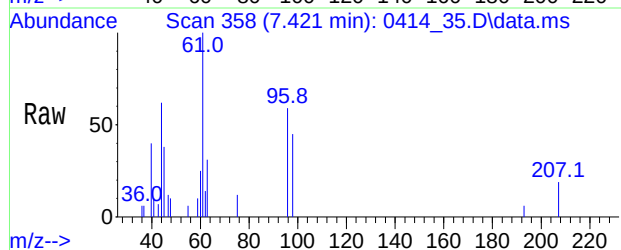
#26
Methyl Ethyl Ketone
Conc: 8\$ 0.337 ppbv
RT: 7.172 min Scan# 332
Delta R.T. 0.016 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

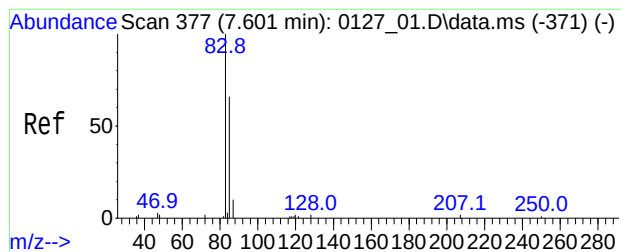
Tgt Ion: 43	Resp: 34750
Ion Ratio	Lower Upper
43 100	
72 10.8	10.2 15.4
57 7.6	6.1 9.1



#27
Cis-1,2-Dichloroethene
Conc: 8\$ Below Cal
RT: 7.421 min Scan# 358
Delta R.T. -0.000 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

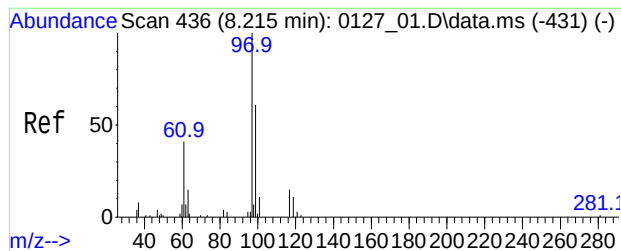
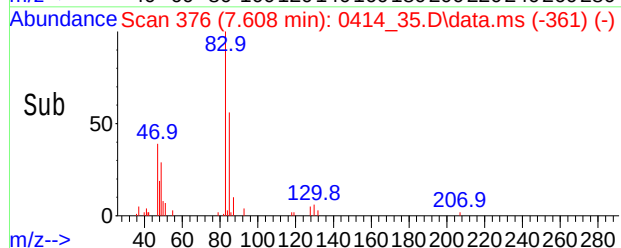
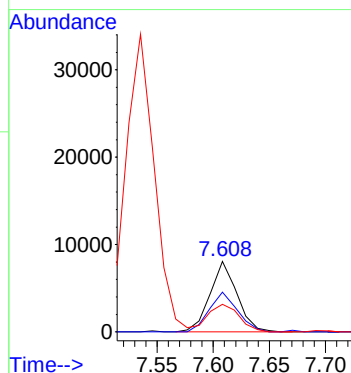
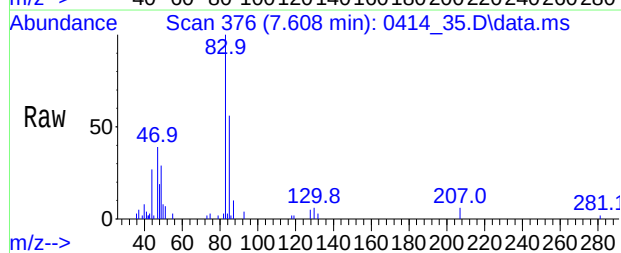
Tgt Ion: 61	Resp: 5308
Ion Ratio	Lower Upper
61 100	
96 55.5	47.8 71.8
98 35.9	30.7 46.1





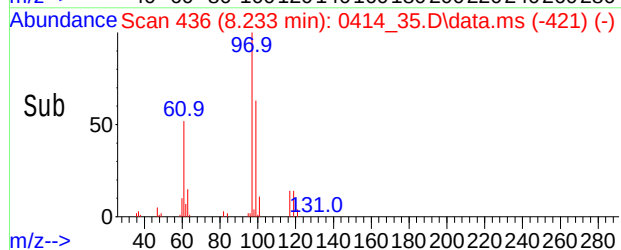
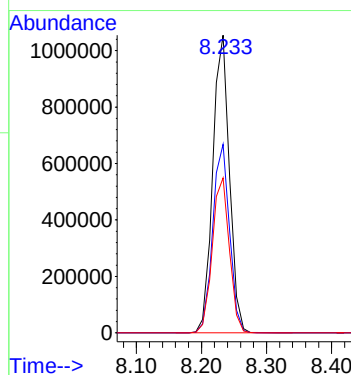
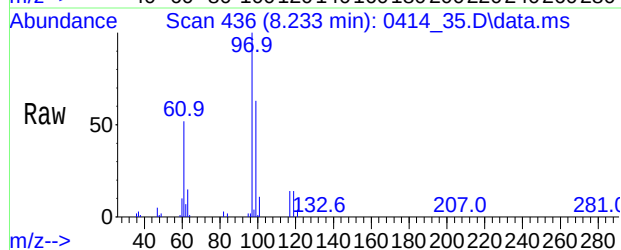
#29
Chloroform
Conc: 8\$ 0.217 ppbv
RT: 7.608 min Scan# 376
Delta R.T. 0.010 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

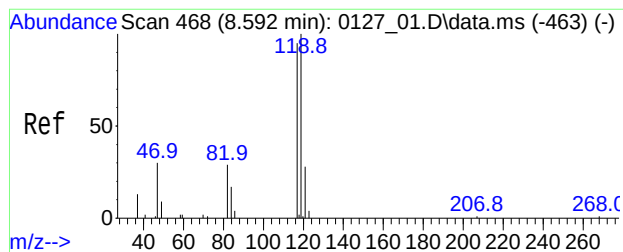
Tgt Ion	Ratio	Lower	Upper
83	100		
85	59.0	43.0	83.0
47	45.7	16.5	56.5



#33
1,1,1-Trichloroethane
Conc: 8\$ 29.453 ppbv
RT: 8.233 min Scan# 436
Delta R.T. 0.010 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

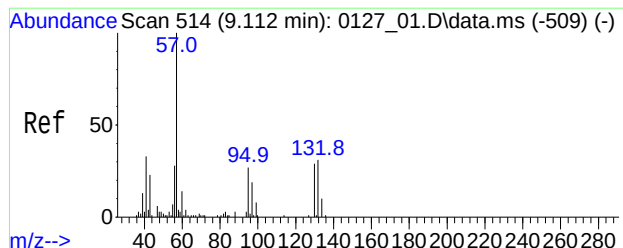
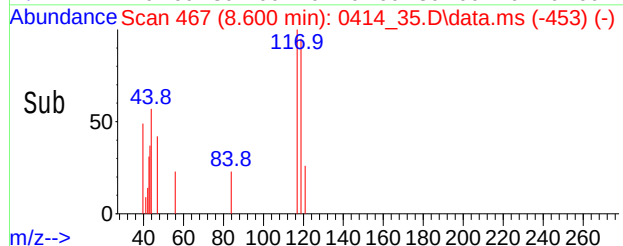
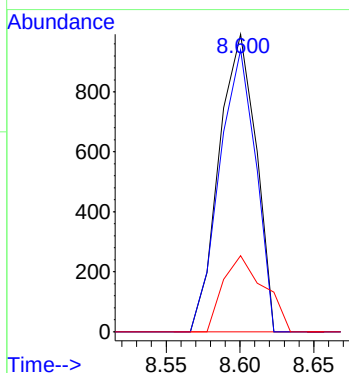
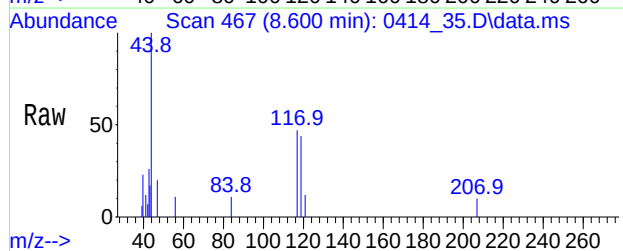
Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	46.2	69.4
61	54.1	35.5	53.3#





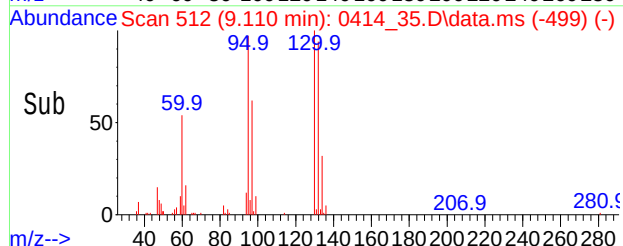
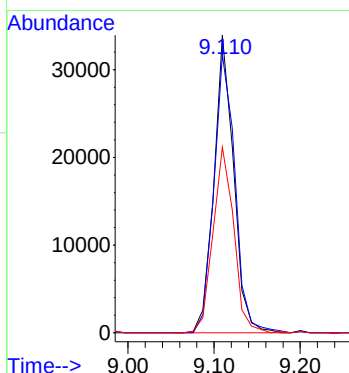
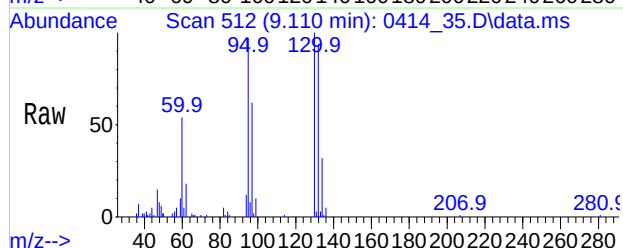
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.600 min Scan# 467
Delta R.T. 0.011 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

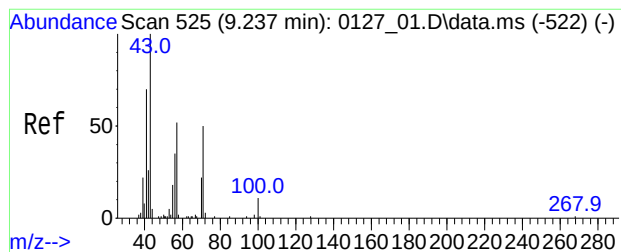
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1723		
119	92.5	77.5	117.5	
121	28.5	12.4	52.4	



#40
Trichloroethene
Conc: 8\$ 1.226 ppbv
RT: 9.110 min Scan# 512
Delta R.T. -0.000 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

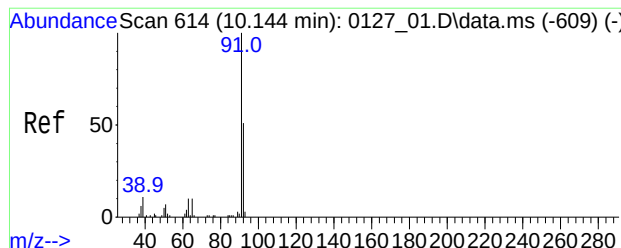
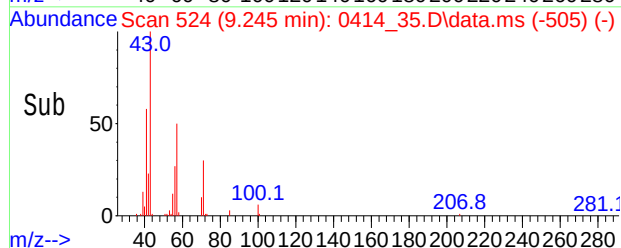
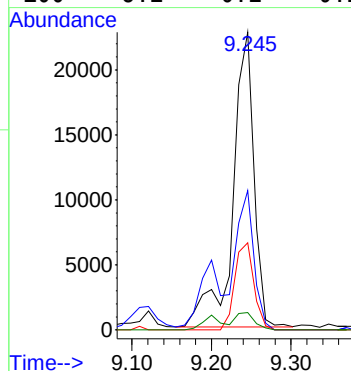
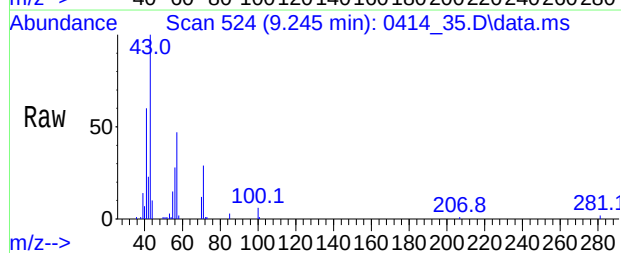
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	54043		
132	100.2	77.3	115.9	
97	65.8	50.8	76.2	





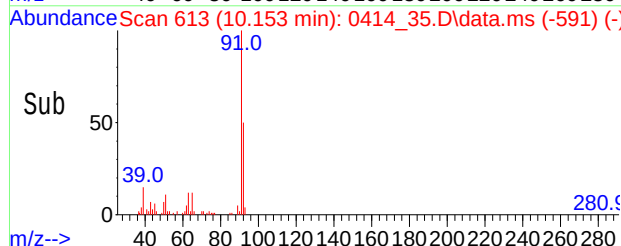
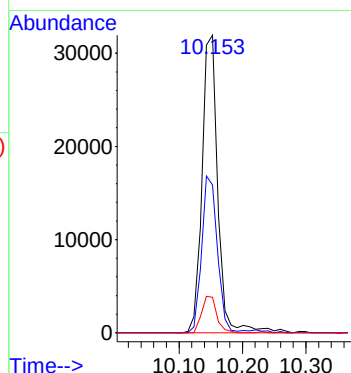
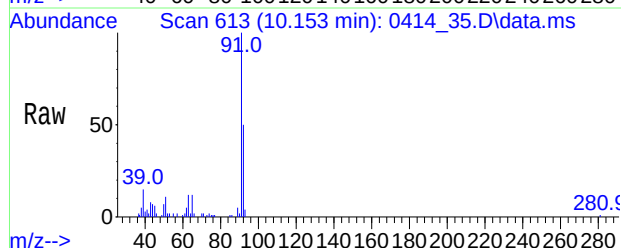
#44
Heptane
Conc: 8\$ 0.453 ppbv
RT: 9.245 min Scan# 524
Delta R.T. 0.011 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

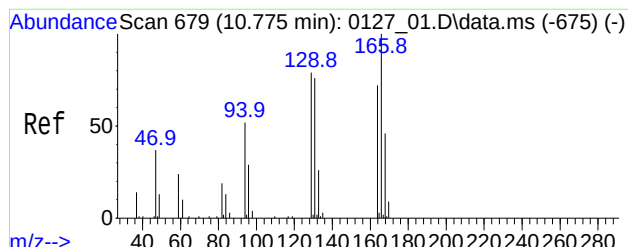
Tgt Ion	Ratio	Lower	Upper
43	100		
57	41.4	37.9	56.9
71	26.6	24.4	36.6
100	5.2	6.2	9.2#



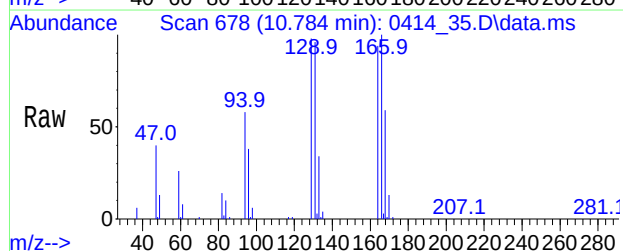
#49
Toluene
Conc: 8\$ 0.493 ppbv
RT: 10.153 min Scan# 613
Delta R.T. 0.010 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.8	44.8	67.2
65	11.6	10.5	15.7

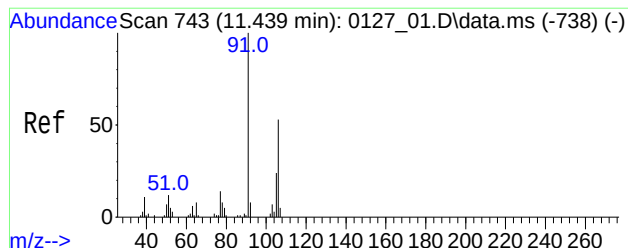
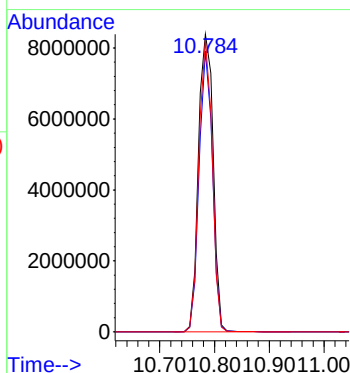
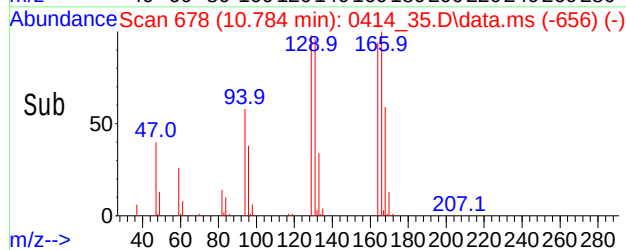




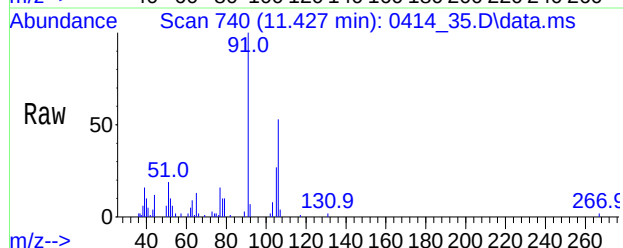
#53
Tetrachloroethene
Conc: 8\$ 258.203 ppbv
RT: 10.784 min Scan# 678
Delta R.T. 0.010 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am



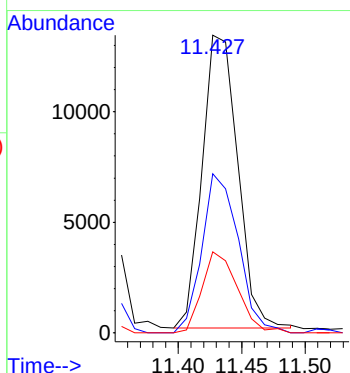
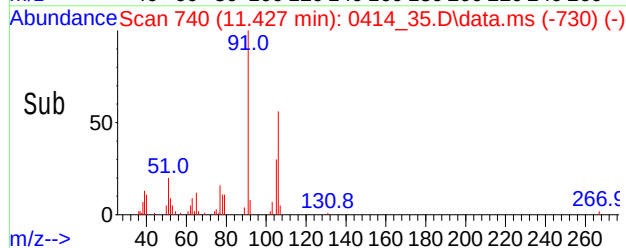
Tgt Ion: 166 Resp: 15621941
Ion Ratio Lower Upper
166 100
164 85.3 65.8 98.6
129 89.5 64.7 97.1

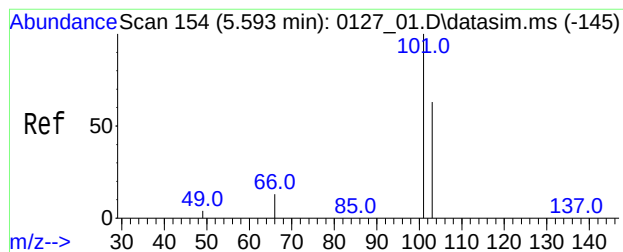


#58
m,p-Xylene
Conc: 8\$ 0.250 ppbv
RT: 11.427 min Scan# 740
Delta R.T. 0.000 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am



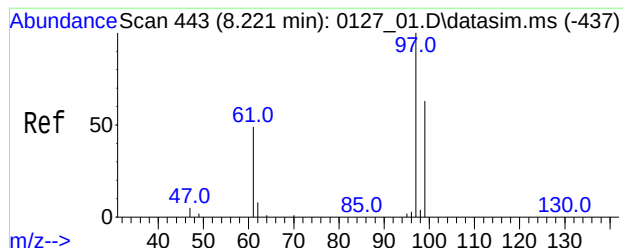
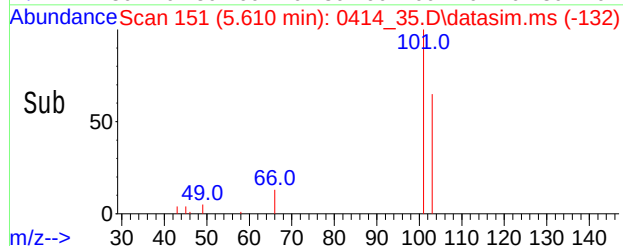
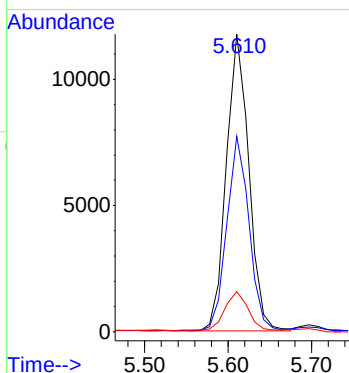
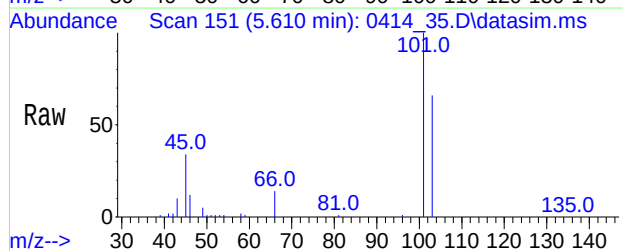
Tgt Ion: 91 Resp: 25919
Ion Ratio Lower Upper
91 100
106 55.5 41.4 62.2
105 27.5 19.8 29.8





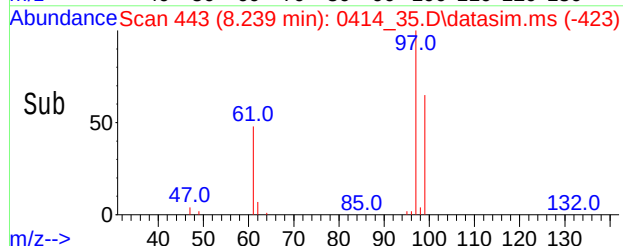
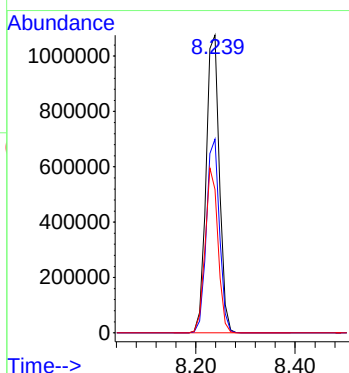
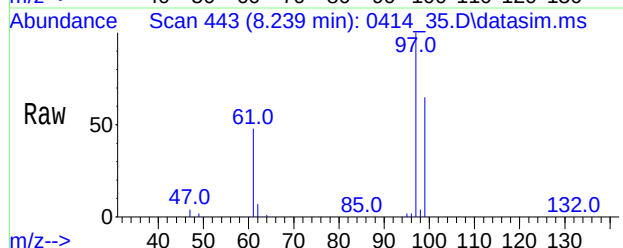
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.283 ppbv
RT: 5.610 min Scan# 151
Delta R.T. 0.000 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

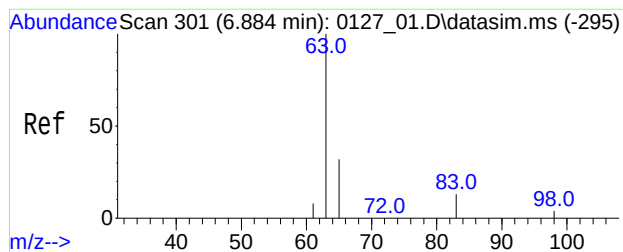
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	21847		
103	64.4	52.5	78.7	
66	13.8	18.3	18.3	



#87
1,1,1-Trichloroethane(sim)
Conc: 8\$ 28.781 ppbv
RT: 8.239 min Scan# 443
Delta R.T. 0.011 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

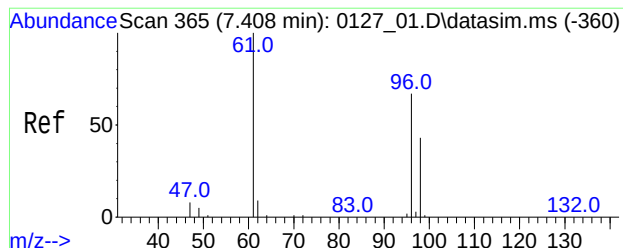
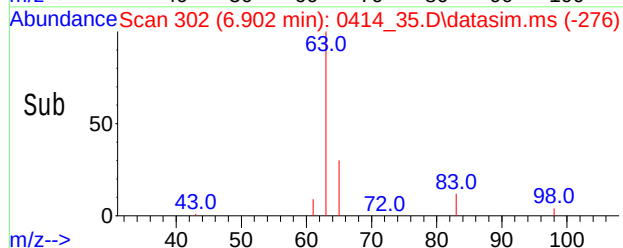
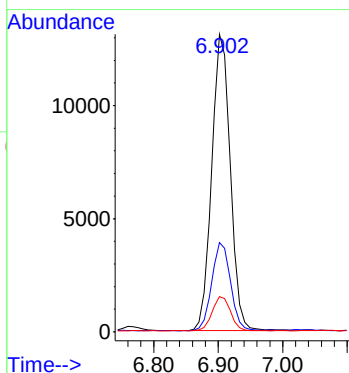
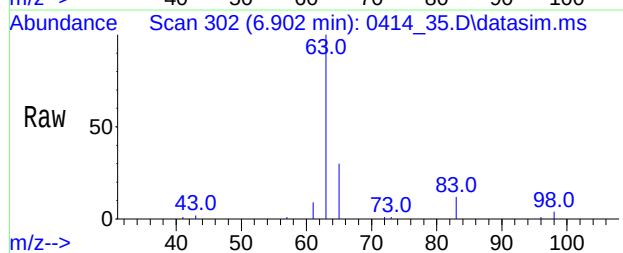
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	2067193		
99	64.1	64.4	64.4	
61	52.2	43.6	65.4	





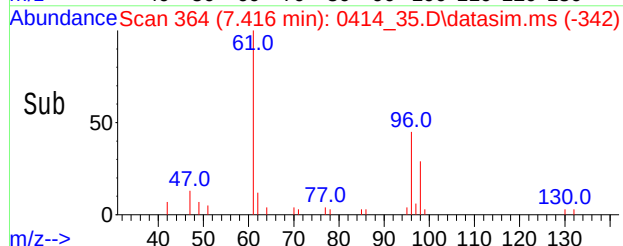
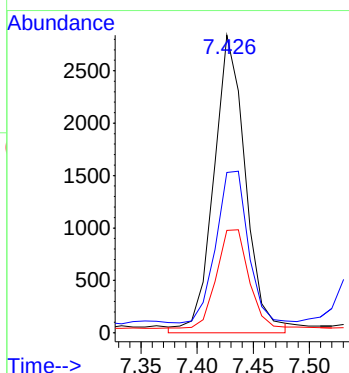
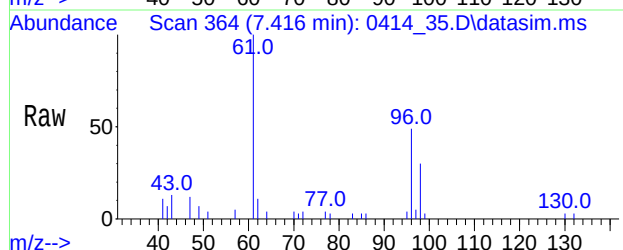
#93
1,1-Dichloroethane(sim)
Conc: 8\$ 0.384 ppbv
RT: 6.902 min Scan# 302
Delta R.T. 0.008 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

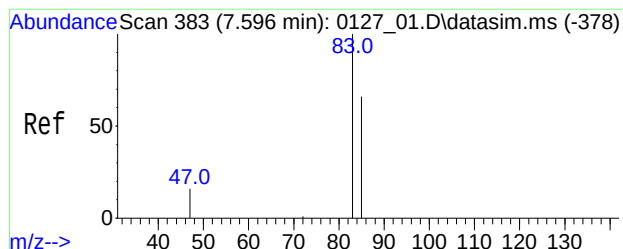
Tgt Ion	Ratio	Lower	Upper
63	100		
65	30.2	24.4	36.6
83	11.5	9.2	13.8



#94
Cis-1,2-Dichloroethene(sim)
Conc: 8\$ 0.090 ppbv
RT: 7.421 min Scan# 364
Delta R.T. -0.000 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

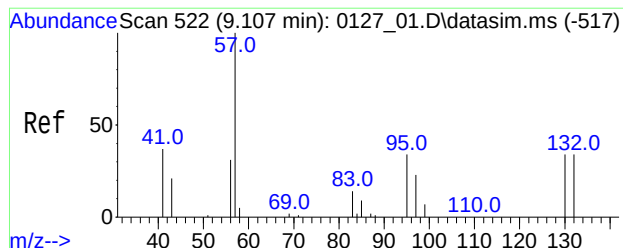
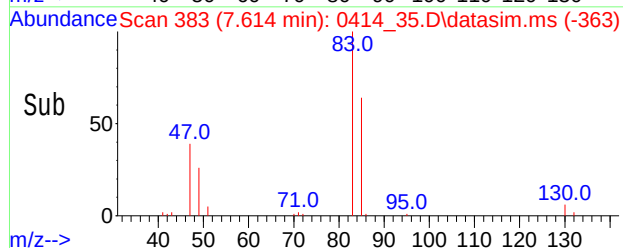
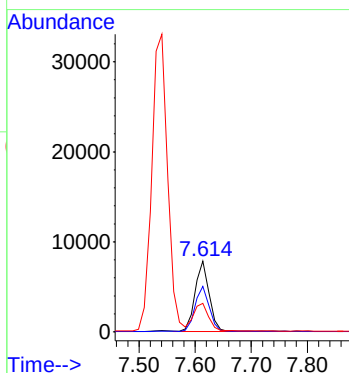
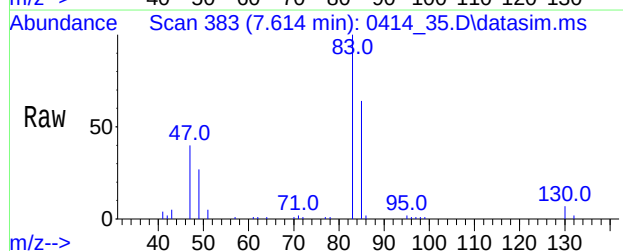
Tgt Ion	Ratio	Lower	Upper
61	100		
96	55.5	47.8	71.8
98	35.9	30.7	46.1





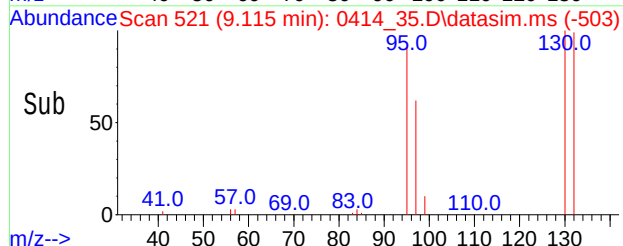
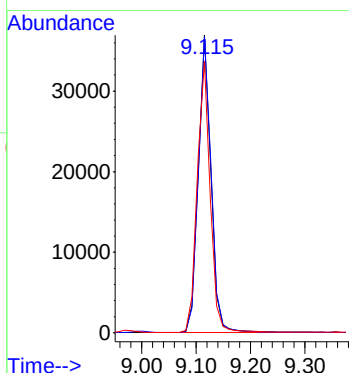
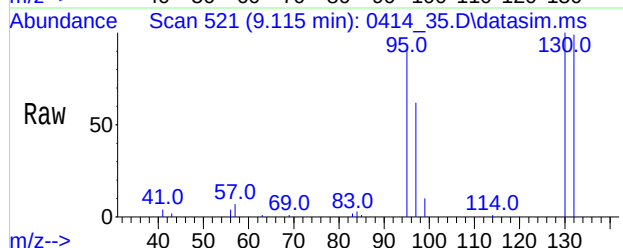
#95
Chloroform(sim)
Conc: 8\$ 0.201 ppbv
RT: 7.614 min Scan# 383
Delta R.T. 0.011 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

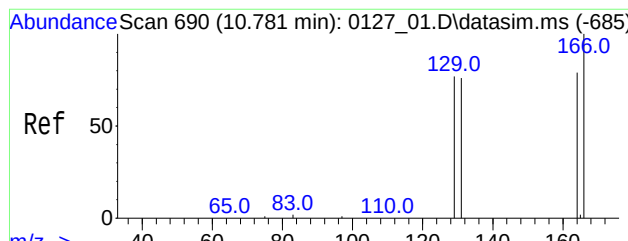
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.5	77.3
47	43.7	31.4	47.2



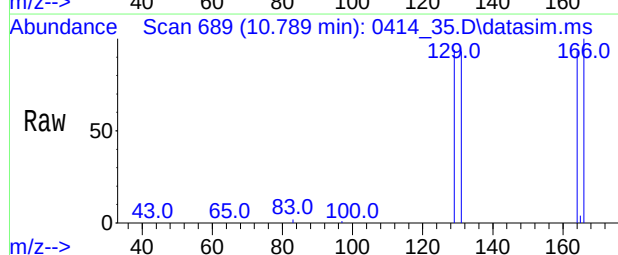
#99
Trichloroethene(sim)
Conc: 8\$ 1.113 ppbv
RT: 9.115 min Scan# 521
Delta R.T. 0.000 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am

Tgt Ion	Ratio	Lower	Upper
130	100		
132	100.1	79.0	118.4
95	92.6	73.0	109.6

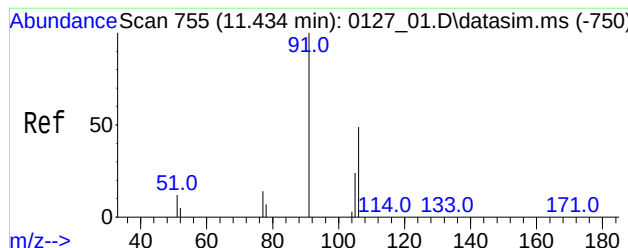
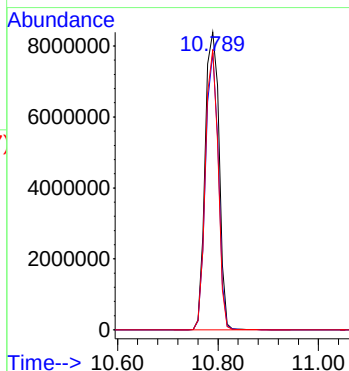




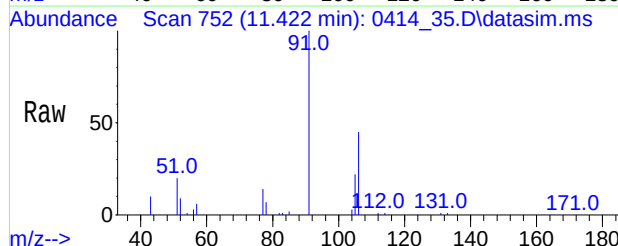
#105
Tetrachloroethene(sim)
Conc: 8\$ 204.448 ppbv
RT: 10.789 min Scan# 689
Delta R.T. 0.009 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am



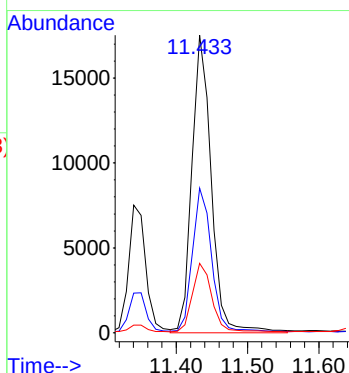
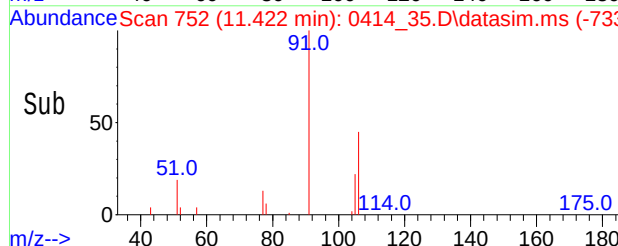
Tgt Ion: 166 Resp: 16204872
Ion Ratio Lower Upper
166 100
164 85.1 58.6 98.6
129 85.3 53.3 93.3



#108
m,p-Xylene(sim)
Conc: 8\$ 0.237 ppbv
RT: 11.427 min Scan# 752
Delta R.T. 0.000 min
Lab File: 0414_35.D
Acq: 15 Apr 2023 5:13 am



Tgt Ion: 91 Resp: 27705
Ion Ratio Lower Upper
91 100
106 52.0 47.5 58.1
105 26.2 19.4 29.2



Client: FPMGROUP Lab: Phoenix Env. Labs

Lab Sample ID: CN84182 140X

Lab File ID: 0417_16.D

Date Received: 04/14/23

Date Analyzed: 04/17/23Dilution Factor: 140

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

This form 1 and the associated quantitation report are filtered for detected compounds in the undiluted analysis.

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_16.D
 Acq On : 17 Apr 2023 8:56 pm
 Operator :
 Client ID : SV-3 140X
 Lab ID : CN84182 140X
 ALS Vial : 46 Sample Multiplier: 1

Quant Time: Apr 18 10:25:52 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

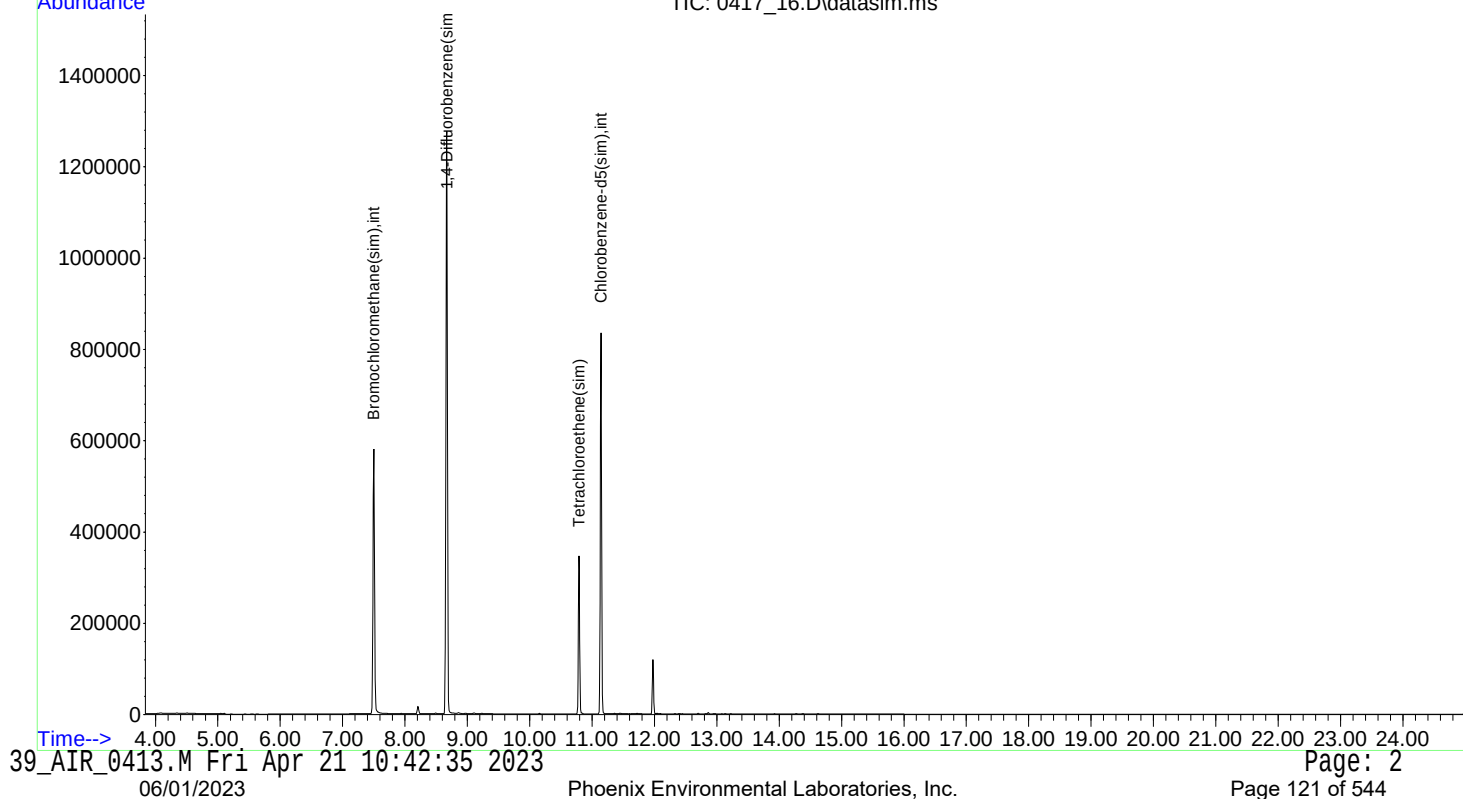
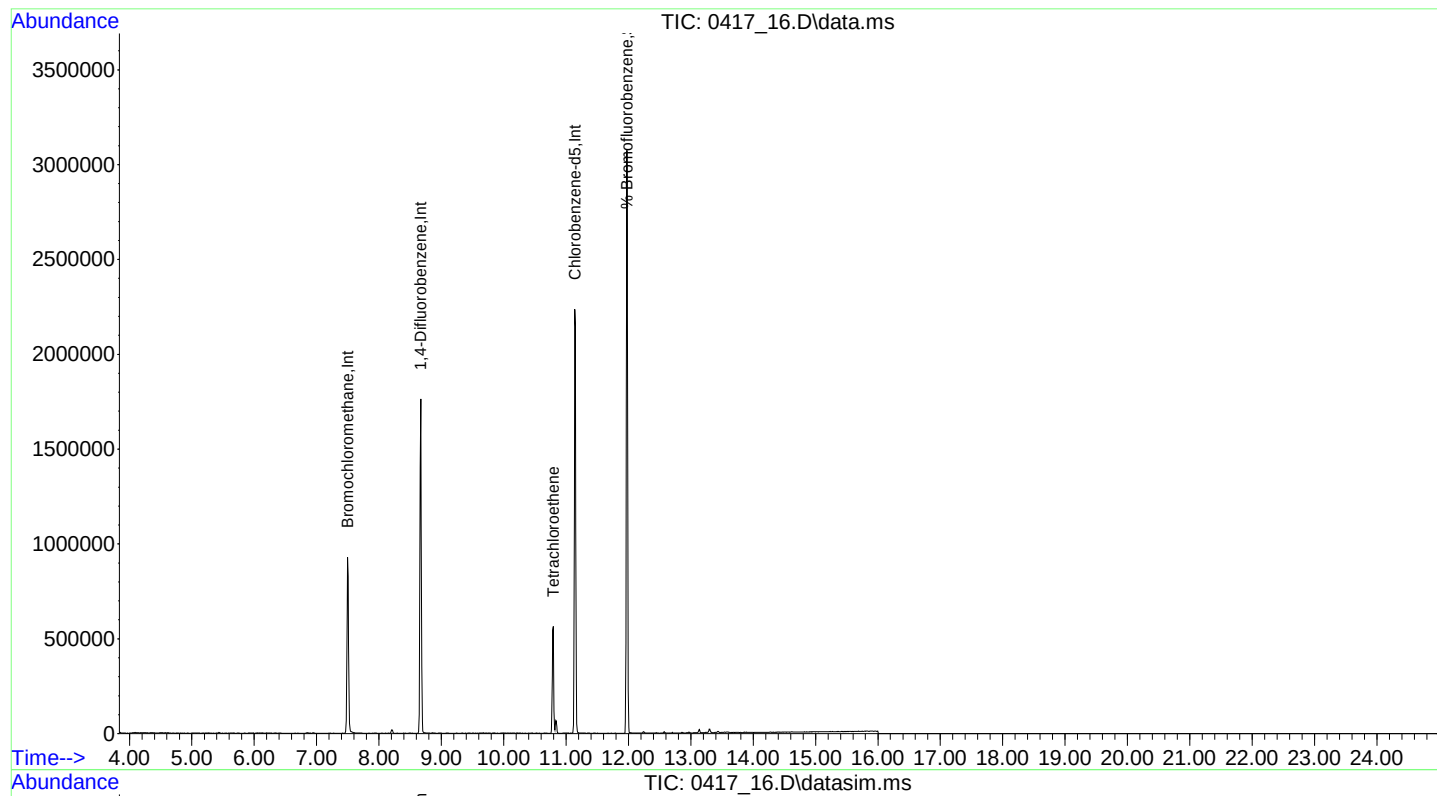
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

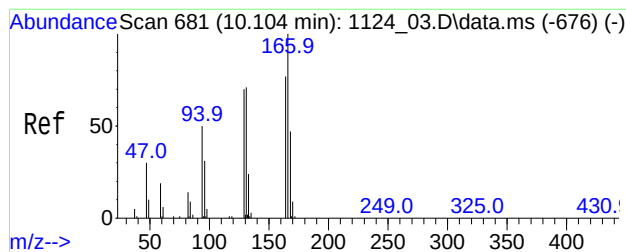
Internal Standards						
1) Bromochloromethane	7.497	130	380043	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.669	114	1377023	10.000	ng	0.00
54) Chlorobenzene-d5	11.140	82	630094	10.000	ng	0.00
81) Bromochloromethane(sim)	7.500	130	364746	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.669	114	1376876	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.140	82	630094	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.974	95	898649	10.238	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.40%	
Target Compounds						
						Qvalue
53) Tetrachloroethene	10.793	166	163586	1.940	ppbv	99
105] Tetrachloroethene(sim)	10.789	166	155804	1.839	ppbv	100

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2023\CHEM39\04APR\17\
Data File : 0417_16.D
Acq On : 17 Apr 2023 8:56 pm
Operator :
Client ID : SV-3 140X
Lab ID : CN84182 140X
ALS Vial : 46 Sample Multiplier: 1

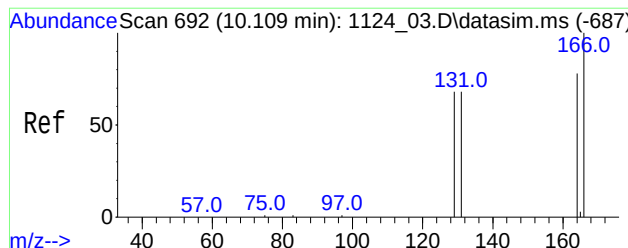
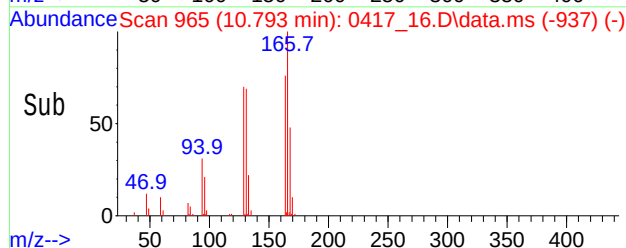
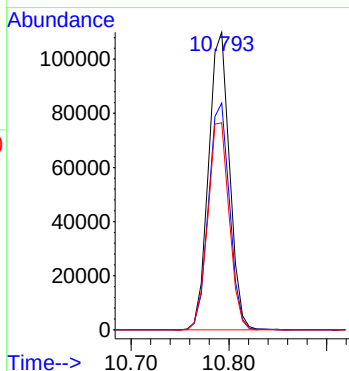
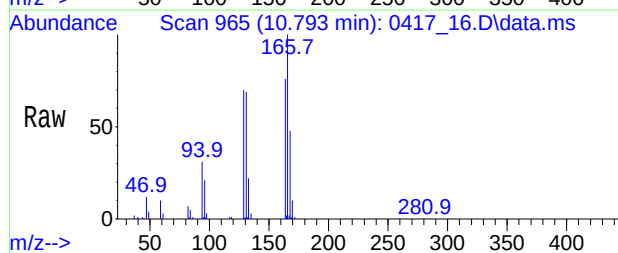
Quant Time: Apr 18 10:25:52 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 14 11:21:21 2023
Response via : Initial Calibration





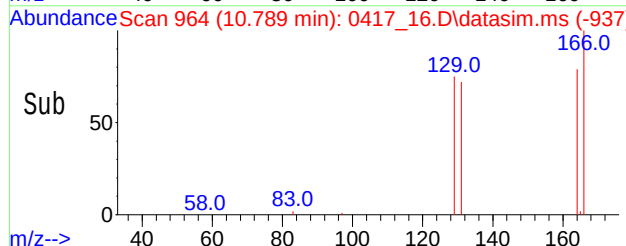
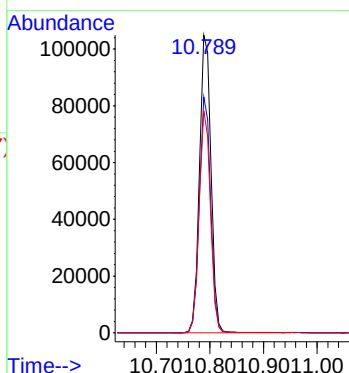
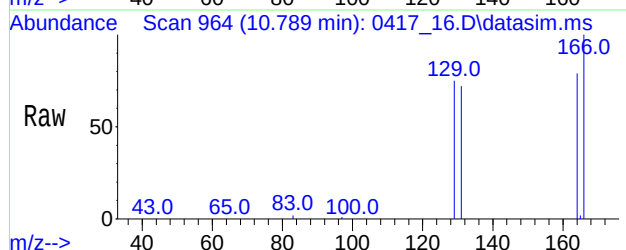
#53
Tetrachloroethene
Conc: 8\$ 1.940 ppbv
RT: 10.793 min Scan# 965
Delta R.T. -0.000 min
Lab File: 0417_16.D
Acq: 17 Apr 2023 8:56 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	163586		
164	76.7	62.5	93.7	
129	71.0	57.4	86.2	



#105
Tetrachloroethene(sim)
Conc: 8\$ 1.839 ppbv
RT: 10.789 min Scan# 964
Delta R.T. -0.007 min
Lab File: 0417_16.D
Acq: 17 Apr 2023 8:56 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	155804		
164	78.3	58.0	98.0	
129	73.1	52.6	92.6	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84183</u>
Canister:	<u>657</u>	Lab File ID:	<u>0414_21.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/14/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.458		0.202	0.202	r
74-87-3	Chloromethane	0.608		0.485	0.485	r
106-99-0	1,3-Butadiene	1.51		0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	71.6	ES	0.531	0.531	r
67-64-1	Acetone	43.0	ES	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.218		0.178	0.178	r
67-63-0	Isopropylalcohol	4.53	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	1.94		0.339	0.339	r
110-54-3	Hexane	10.7	S	0.284	0.284	r
67-66-3	Chloroform	0.966		0.205	0.205	r
141-78-6	Ethyl acetate	0.596		0.278	0.278	r
109-99-9	Tetrahydrofuran	1.13		0.339	0.339	r
71-43-2	Benzene	5.98		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	6.24		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	22.0		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	7.94		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	3.75		0.230	0.230	r
179601-23-1	m,p-Xylene	10.2		0.230	0.230	r
100-42-5	Styrene	0.238		0.235	0.235	r
95-47-6	o-Xylene	3.76		0.230	0.230	r
98-82-8	Isopropylbenzene	0.284		0.204	0.204	r
622-96-8	4-Ethyltoluene	2.95		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.823		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	2.68		0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84183</u>
Canister:	<u>657</u>	Lab File ID:	<u>0414_21.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/14/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.067		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_21.D
 Acq On : 14 Apr 2023 9:11 pm
 Operator :
 Client ID : IA-1
 Lab ID : CN84183
 ALS Vial : 18 Sample Multiplier: 1

Quant Time: Apr 16 19:04:00 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	299691	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1128170	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	538987	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	332167	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1128170	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	538896	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	729072	9.905	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.10%

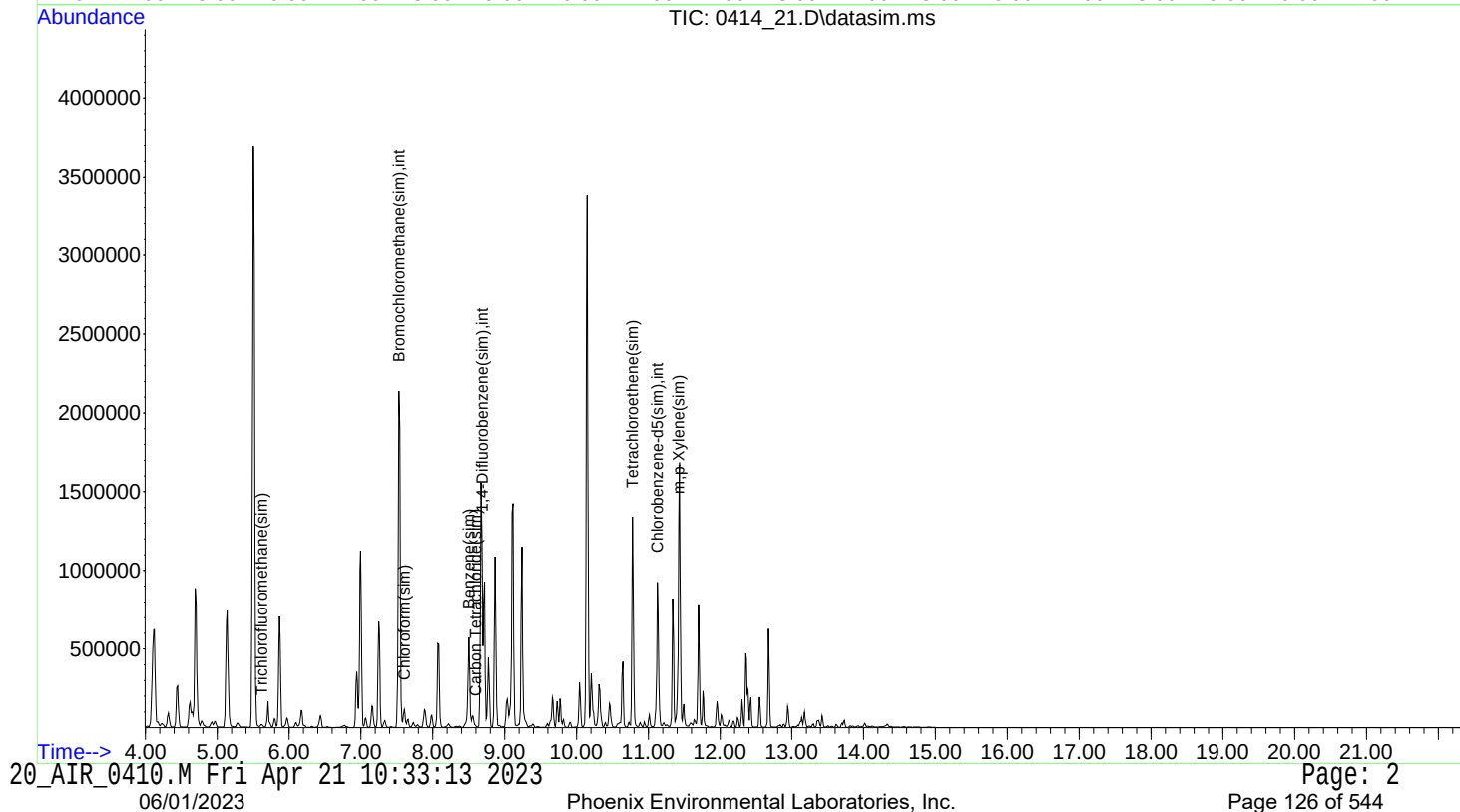
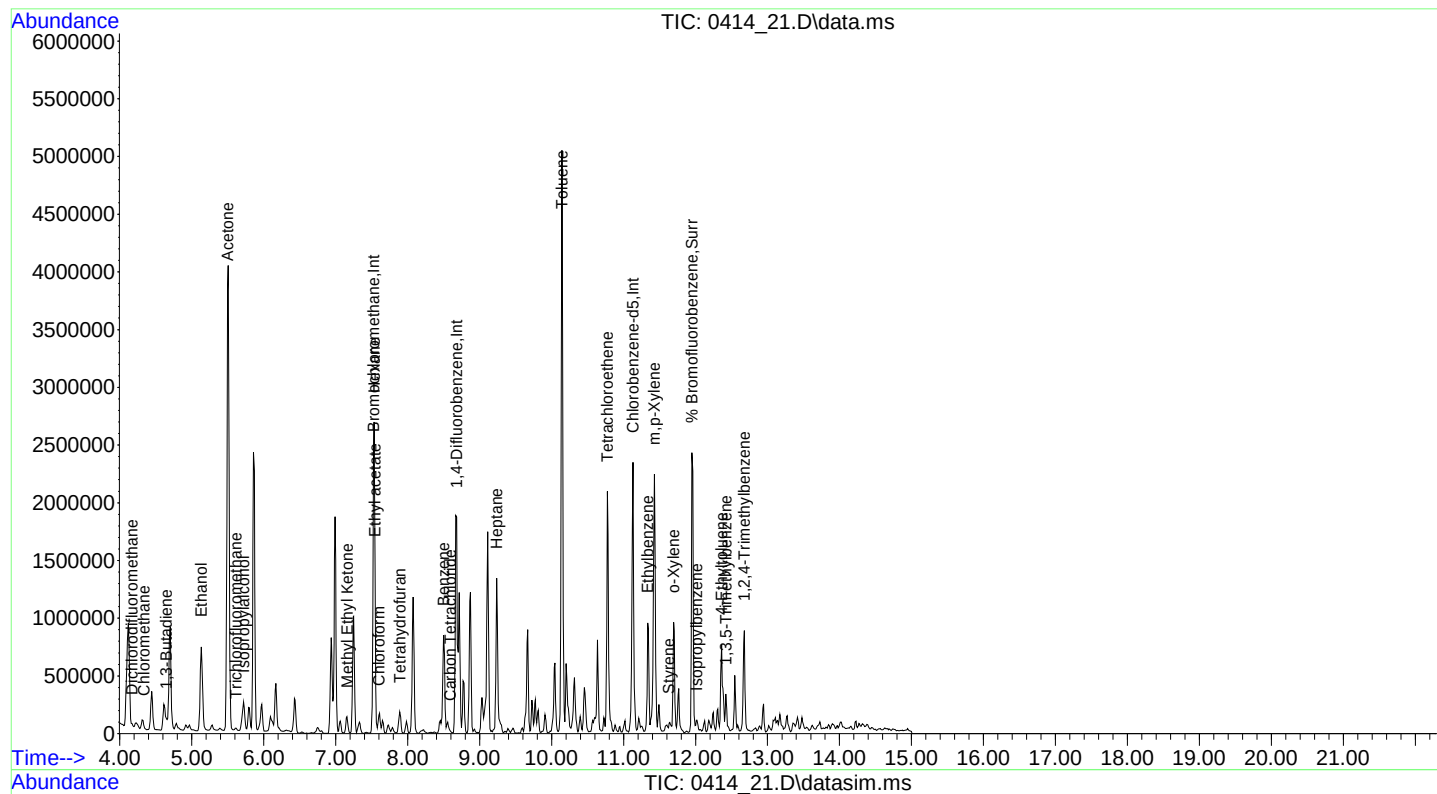
Target Compounds						Qvalue
3) Dichlorodifluoromethane	4.171	85	32360	0.458	ppbv	98
4) Chloromethane	4.333	50	23045	0.608	ppbv	94
7) 1,3-Butadiene	4.646	54	46022	1.508	ppbv#	63
11) Ethanol	5.131	45	979120	71.604	ppbv#	81
12) Acetone	5.497	43	2962944	43.033	ppbv#	74
13) Trichlorofluoromethane	5.616	101	16477	0.217	ppbv#	97
14) Isopropylalcohol	5.721	45	279484	4.531	ppbv#	96
26) Methyl Ethyl Ketone	7.157	43	204126	1.942	ppbv	99
27) Cis-1,2-Dichloroethene	7.421	61	2515	0.048	ppbv	96
28) Hexane	7.535	57	682230	10.650	ppbv	95
29) Chloroform	7.598	83	61279	0.966	ppbv	91
30) Ethyl acetate	7.546	61	9504	0.596	ppbv#	73
31) Tetrahydrofuran	7.890	42	67321	1.128	ppbv#	82
34) Benzene	8.499	78	533899	5.978	ppbv	97
35) Carbon Tetrachloride	8.589	117	3609	0.055	ppbv	81
44) Heptane	9.234	43	610475	6.235	ppbv	93
49) Toluene	10.143	91	2621606	22.003	ppbv	100
53) Tetrachloroethene	10.774	166	507198	7.943	ppbv	98
57) Ethylbenzene	11.335	91	574479	3.748	ppbv	100
58) m,p-Xylene	11.427	91	1170105	10.212	ppbv	97
60) Styrene	11.632	104	21457	0.238	ppbv#	88
62) o-Xylene	11.694	91	462645	3.761	ppbv	99
65) Isopropylbenzene	12.011	105	47154	0.284	ppbv	96
67) 4-Ethyltoluene	12.360	105	505550	2.946	ppbv	98
68) 1,3,5-Trimethylbenzene	12.422	105	119031	0.823	ppbv	98
69) 1,2,4-Trimethylbenzene	12.678	105	393247	2.677	ppbv#	84
85) Trichlorofluoromethane...	5.621	101	16891	0.214	ppbv#	97
88) Benzene(sim)	8.499	78	533899	5.298	ppbv	97
89) Carbon Tetrachloride(sim)	8.595	117	4354	0.067	ppbv	99
95) Chloroform(sim)	7.604	83	65457	0.942	ppbv	97
105) Tetrachloroethene(sim)	10.780	166	597078	7.133	ppbv	99
108) m,p-Xylene(sim)	11.427	91	1185670	9.195	ppbv	96

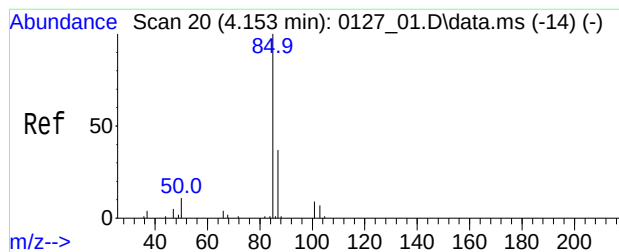
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_21.D
 Acq On : 14 Apr 2023 9:11 pm
 Operator :
 Client ID : IA-1
 Lab ID : CN84183
 ALS Vial : 18 Sample Multiplier: 1

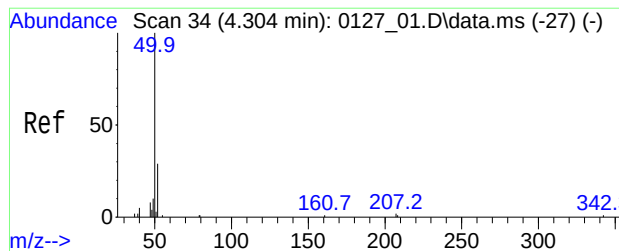
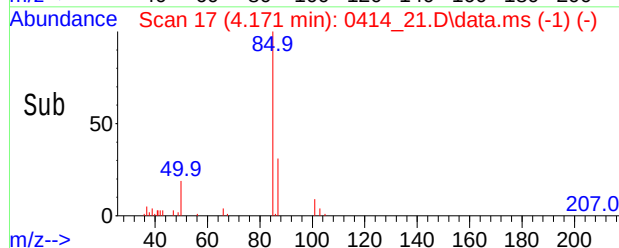
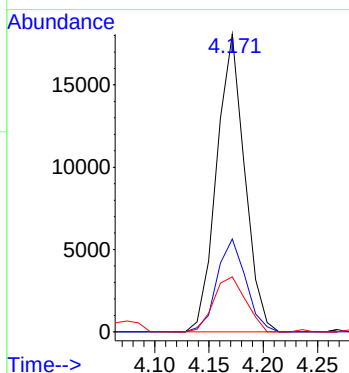
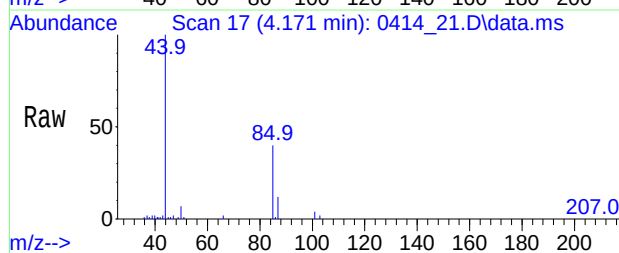
Quant Time: Apr 16 19:04:00 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration





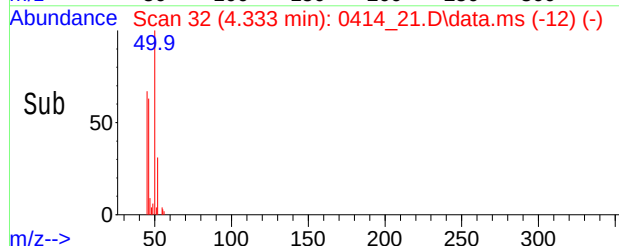
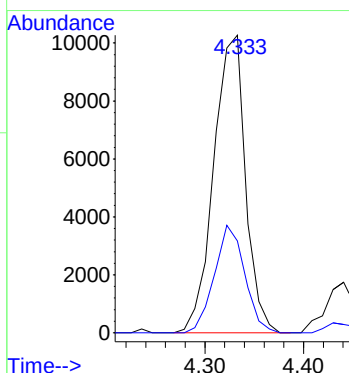
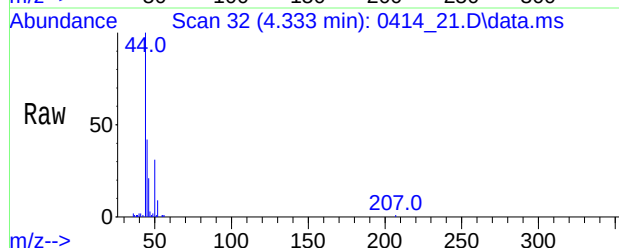
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.458 ppbv
 RT: 4.171 min Scan# 17
 Delta R.T. 0.000 min
 Lab File: 0414_21.D
 Acq: 14 Apr 2023 9:11 pm

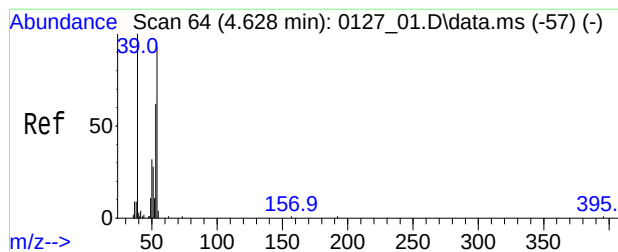
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.1	37.7
50	21.2	18.1	27.1



#4
 Chloromethane
 Conc: 8\$ 0.608 ppbv
 RT: 4.333 min Scan# 32
 Delta R.T. 0.011 min
 Lab File: 0414_21.D
 Acq: 14 Apr 2023 9:11 pm

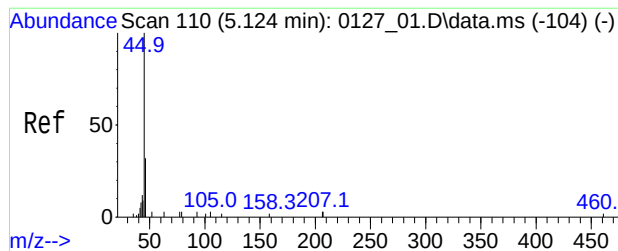
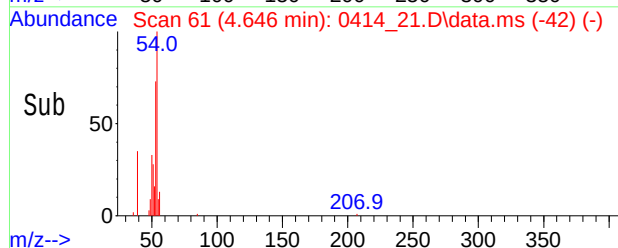
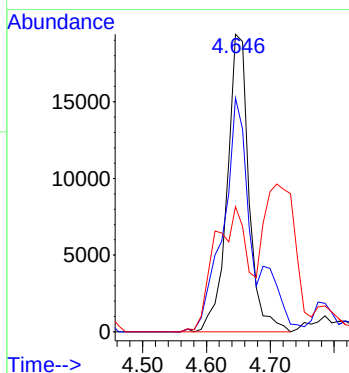
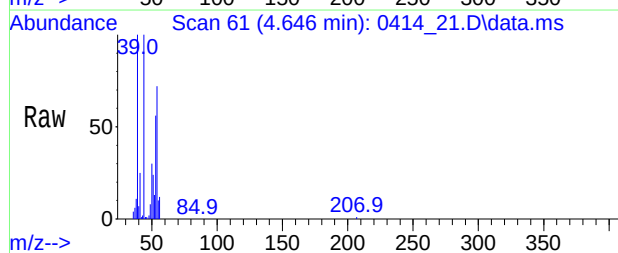
Tgt Ion	Ratio	Lower	Upper
50	100		
52	34.5	18.1	58.1





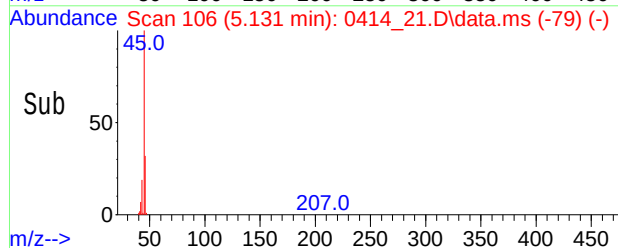
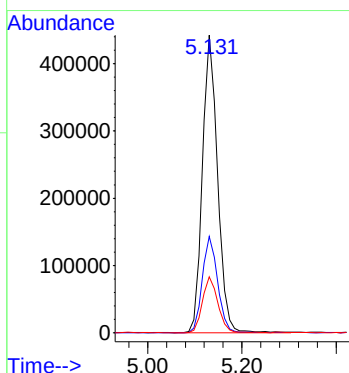
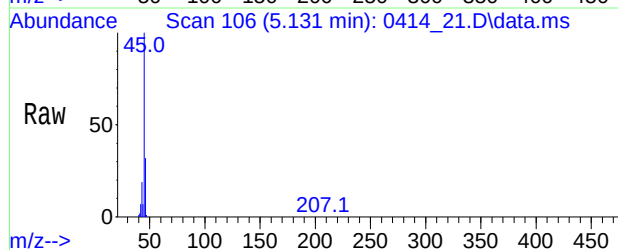
#7
1,3-Butadiene
Conc: 8\$ 1.508 ppbv
RT: 4.646 min Scan# 61
Delta R.T. 0.001 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

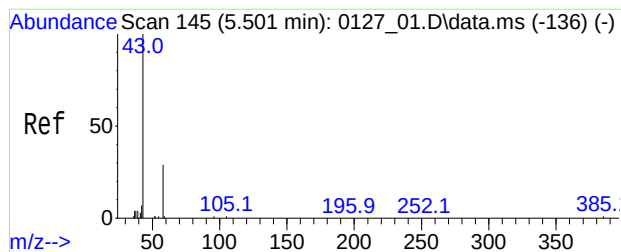
Tgt Ion	Ratio	Lower	Upper
54	100		
53	107.8	59.2	88.8#
50	65.2	35.7	53.5#



#11
Ethanol
Conc: 8\$ 71.604 ppbv
RT: 5.131 min Scan# 106
Delta R.T. -0.010 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

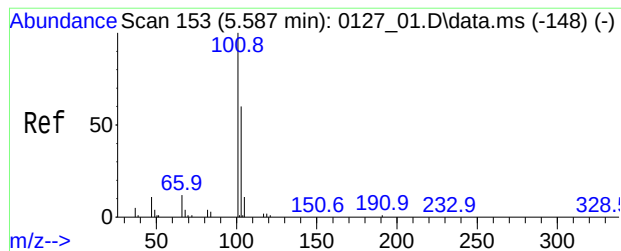
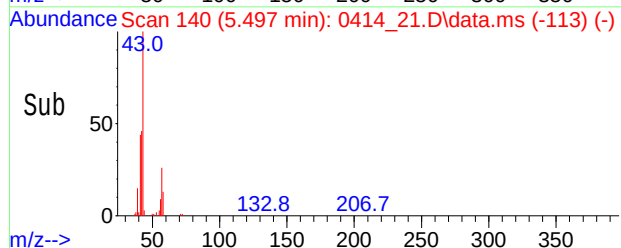
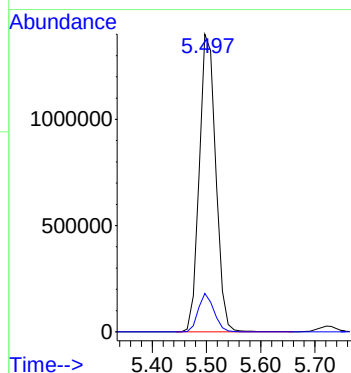
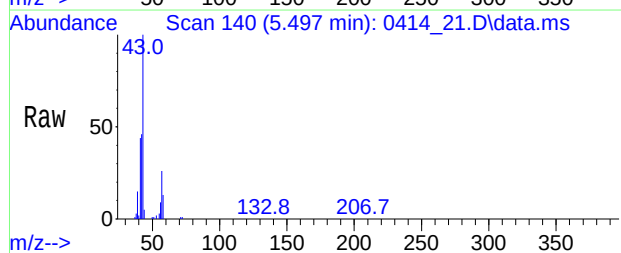
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.9	25.1	37.7
43	19.2	31.4	47.2#





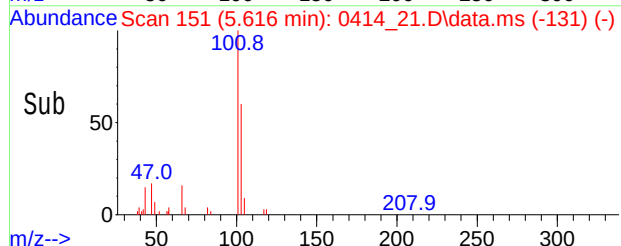
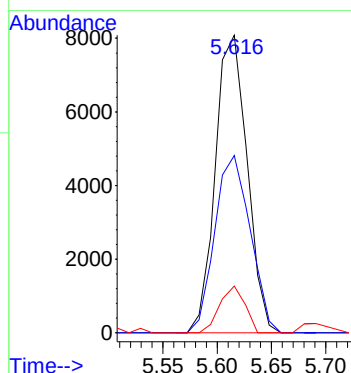
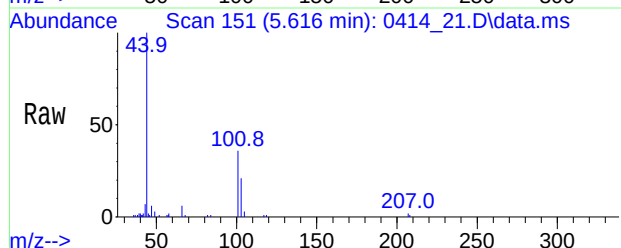
#12
Acetone
Conc: 8\$ 43.033 ppbv
RT: 5.497 min Scan# 140
Delta R.T. -0.011 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

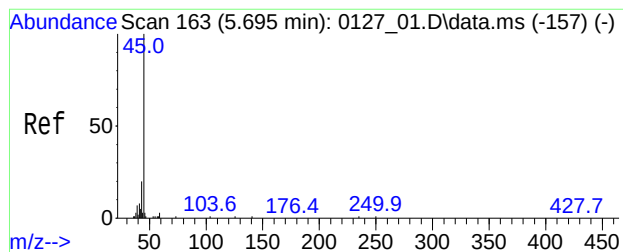
Tgt Ion: 43 Resp: 2962944
Ion Ratio Lower Upper
43 100
58 12.3 20.6 30.8#



#13
Trichlorofluoromethane
Conc: 8\$ 0.217 ppbv
RT: 5.616 min Scan# 151
Delta R.T. 0.011 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

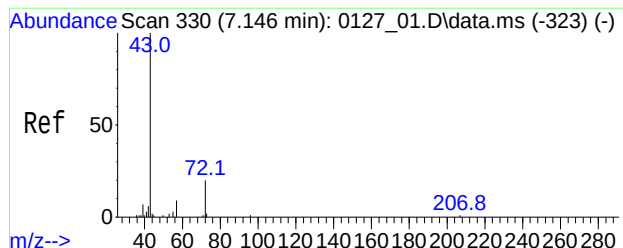
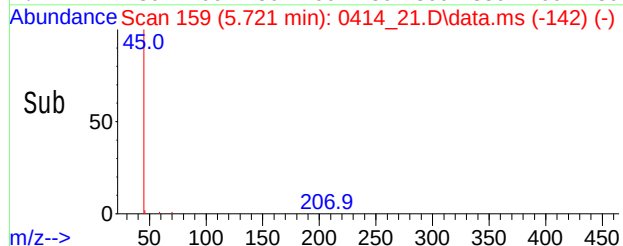
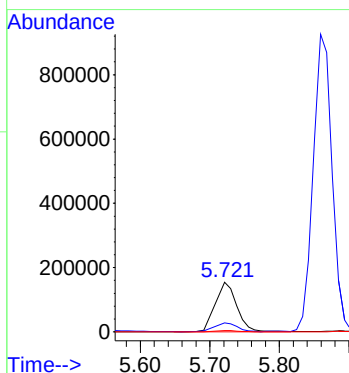
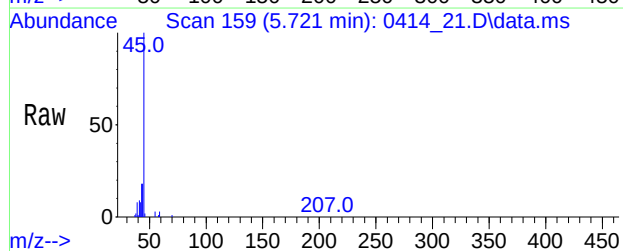
Tgt Ion: 101 Resp: 16477
Ion Ratio Lower Upper
101 100
103 66.3 53.8 80.8
66 12.5 12.9 19.3#





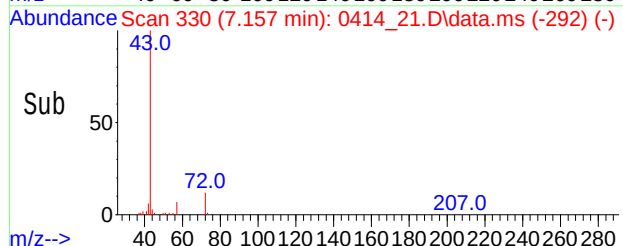
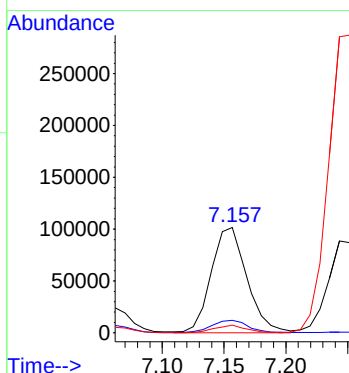
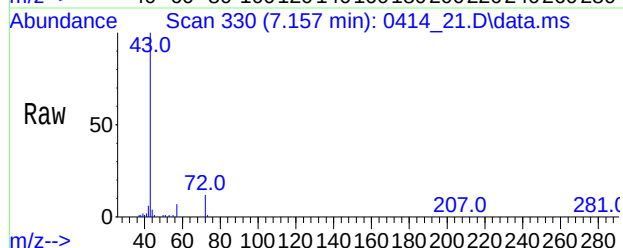
#14
Isopropylalcohol
Conc: 8\$ 4.531 ppbv
RT: 5.721 min Scan# 159
Delta R.T. 0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

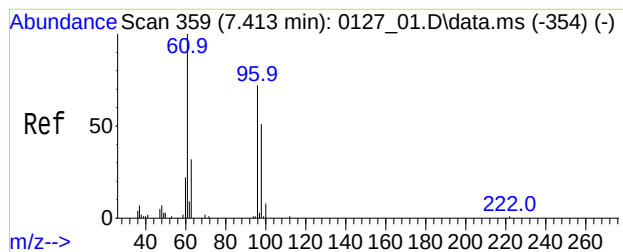
Tgt Ion	Ratio	Lower	Upper
45	100		
43	21.7	15.9	23.9
59	2.9	3.6	5.4#



#26
Methyl Ethyl Ketone
Conc: 8\$ 1.942 ppbv
RT: 7.157 min Scan# 330
Delta R.T. 0.001 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

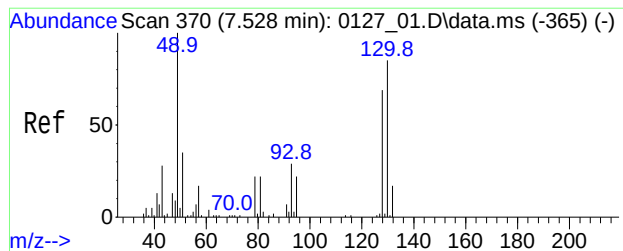
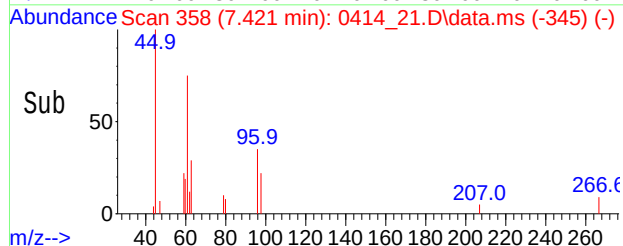
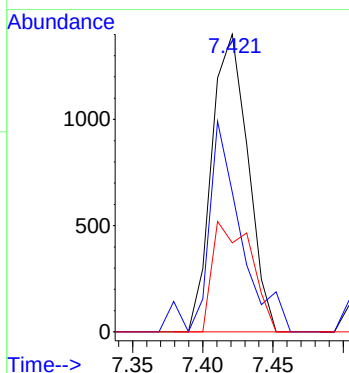
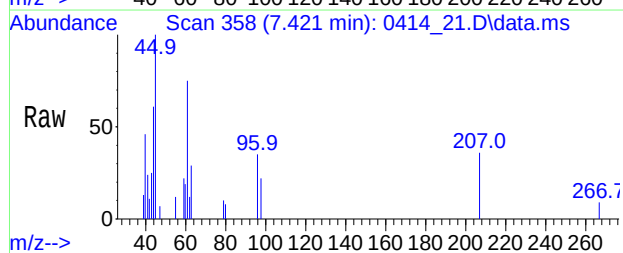
Tgt Ion	Ratio	Lower	Upper
43	100		
72	12.6	10.2	15.4
57	6.6	6.1	9.1





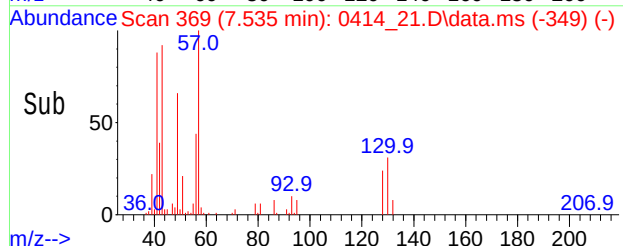
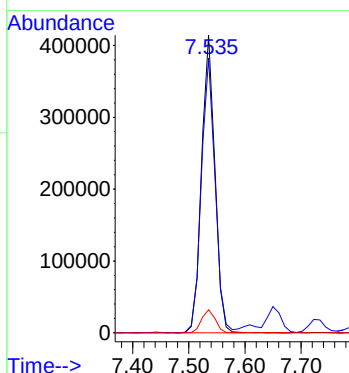
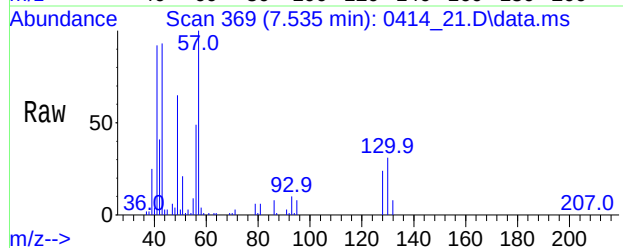
#27
Cis-1,2-Dichloroethene
Conc: 8\$ Below Cal
RT: 7.421 min Scan# 358
Delta R.T. -0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

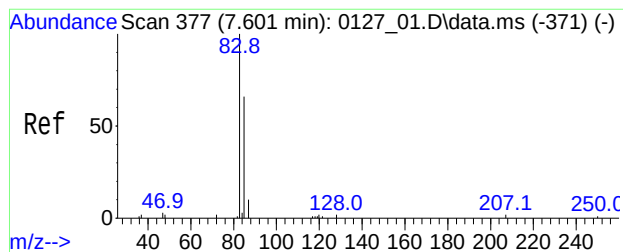
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	2515		
96	64.1	47.8	71.8	
98	39.4	30.7	46.1	



#28
Hexane
Conc: 8\$ 10.650 ppbv
RT: 7.535 min Scan# 369
Delta R.T. 0.010 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

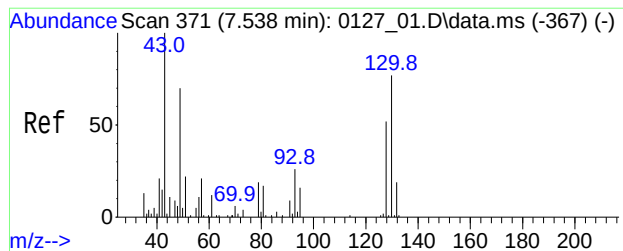
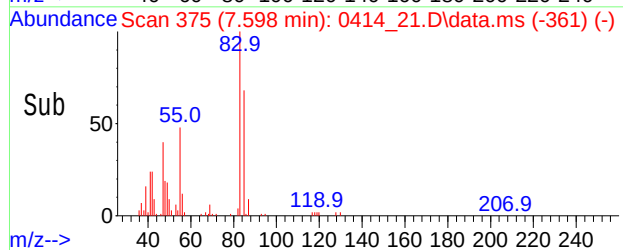
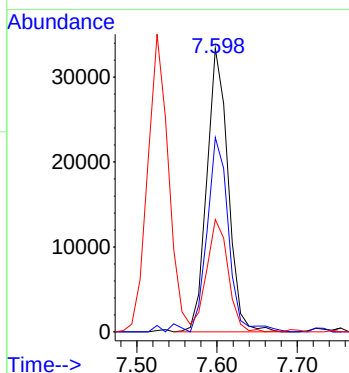
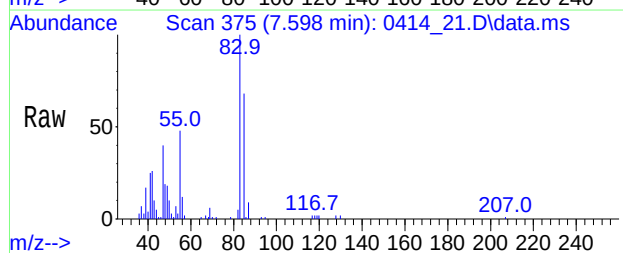
Tgt Ion	Ratio	Resp	Lower	Upper
57	100	682230		
41	95.1	72.3	108.5	
86	8.1	7.0	10.6	





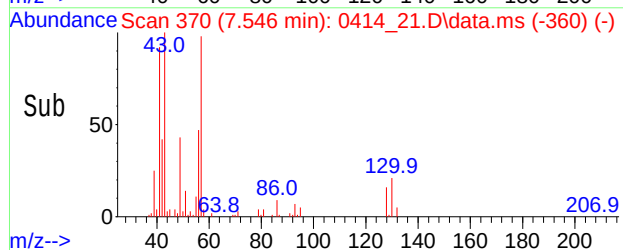
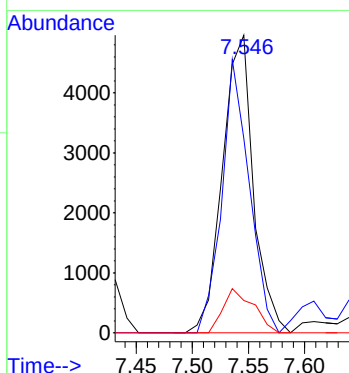
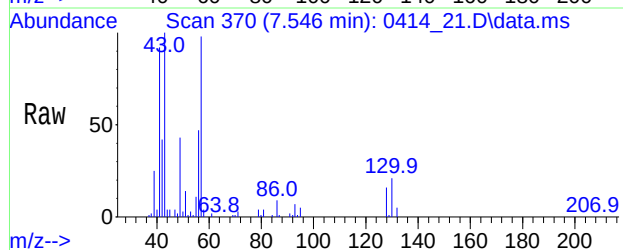
#29
Chloroform
Conc: 8\$ 0.966 ppbv
RT: 7.598 min Scan# 375
Delta R.T. -0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

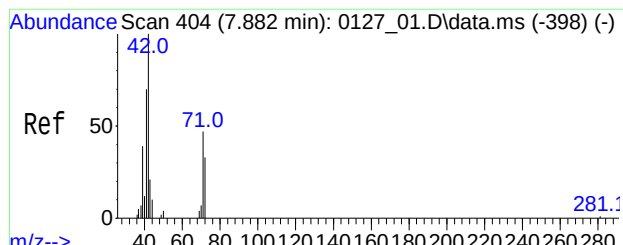
Tgt Ion	Ratio	Lower	Upper
83	100		
85	71.0	43.0	83.0
47	40.1	16.5	56.5



#30
Ethyl acetate
Conc: 8\$ 0.596 ppbv
RT: 7.546 min Scan# 370
Delta R.T. -0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

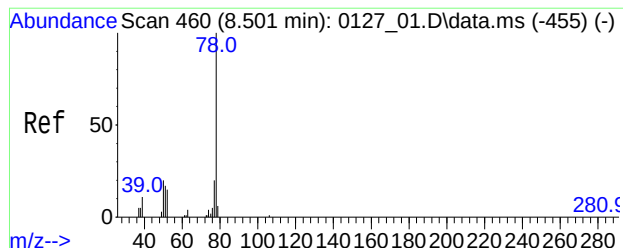
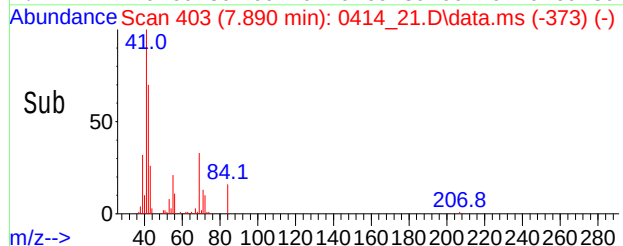
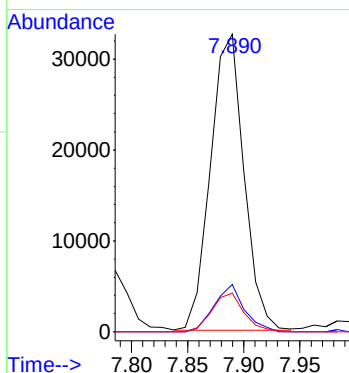
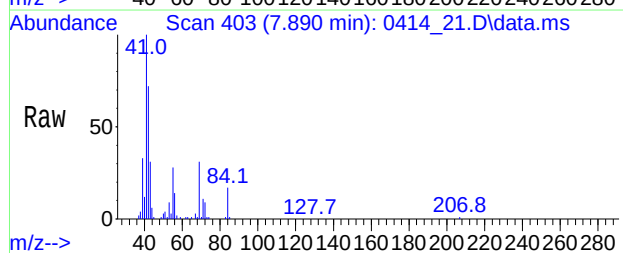
Tgt Ion	Ratio	Lower	Upper
61	100		
70	81.1	45.0	67.6#
88	14.4	12.6	19.0





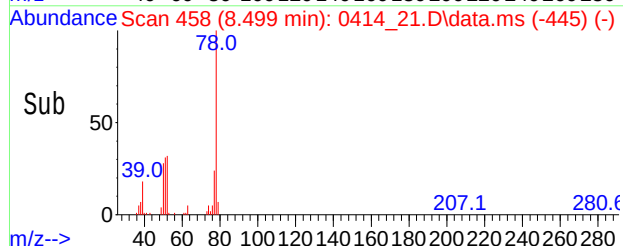
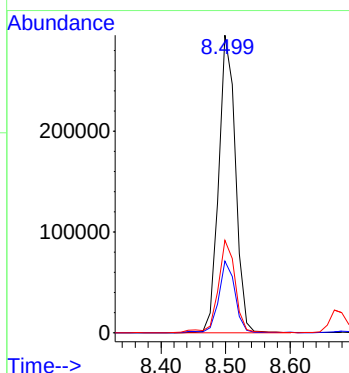
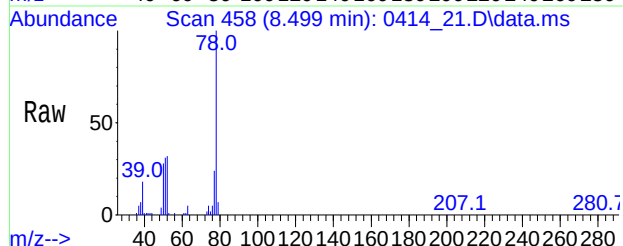
#31
Tetrahydrofuran
Conc: 8\$ 1.128 ppbv
RT: 7.890 min Scan# 403
Delta R.T. 0.011 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

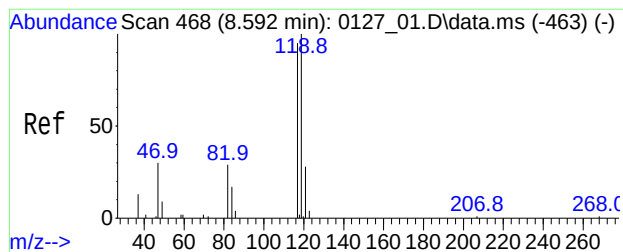
Tgt Ion	Ratio	Lower	Upper
42	100		
71	14.5	18.6	28.0#
72	12.7	17.1	25.7#



#34
Benzene
Conc: 8\$ 5.978 ppbv
RT: 8.499 min Scan# 458
Delta R.T. -0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

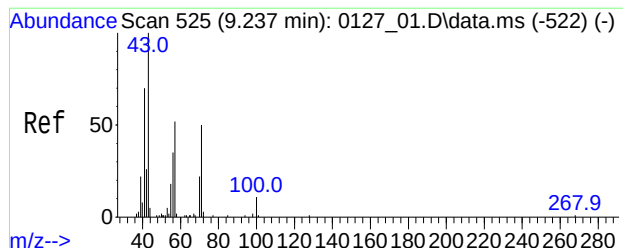
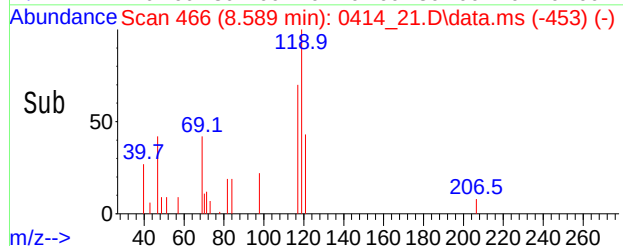
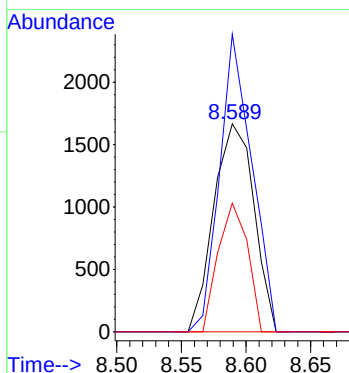
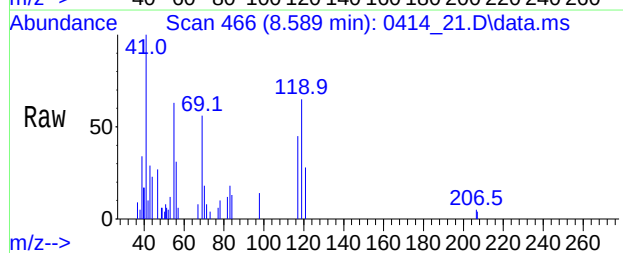
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	20.0	30.0
51	31.8	24.3	36.5





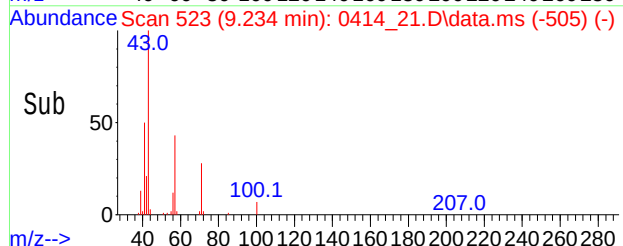
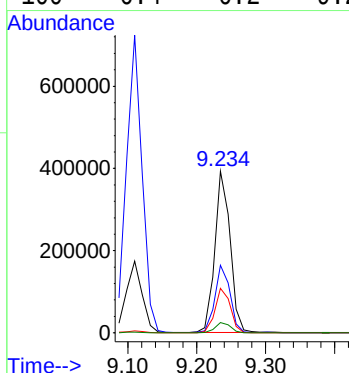
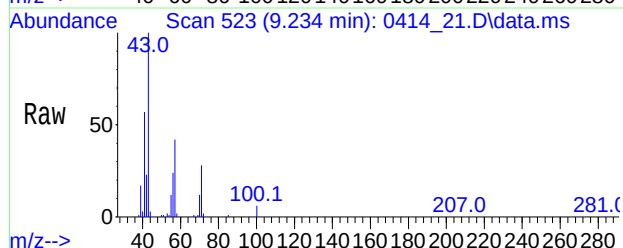
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.589 min Scan# 466
Delta R.T. 0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

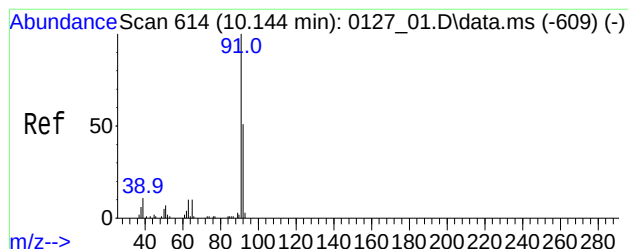
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	3609		
119	114.7	77.5	117.5	
121	45.2	12.4	52.4	



#44
Heptane
Conc: 8\$ 6.235 ppbv
RT: 9.234 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

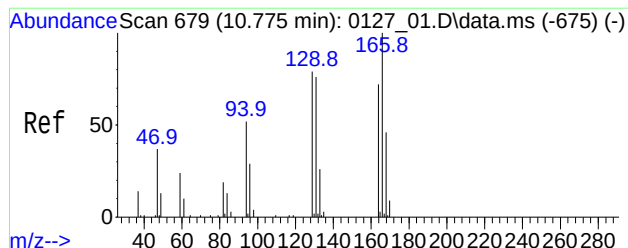
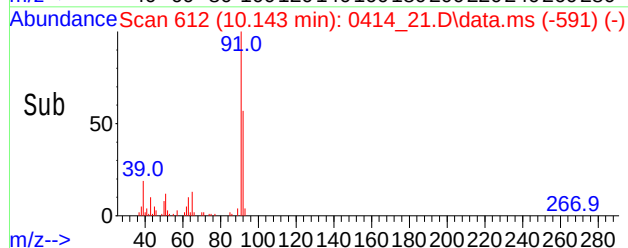
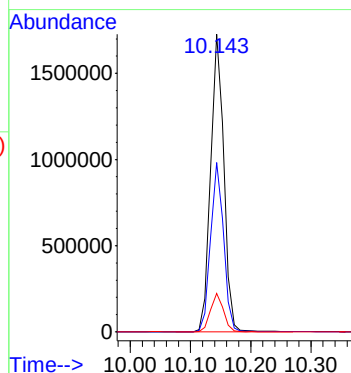
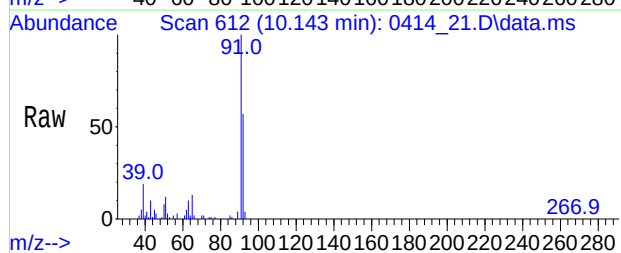
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	610475		
57	41.7	37.9	56.9	
71	27.6	24.4	36.6	
100	6.4	6.2	9.2	





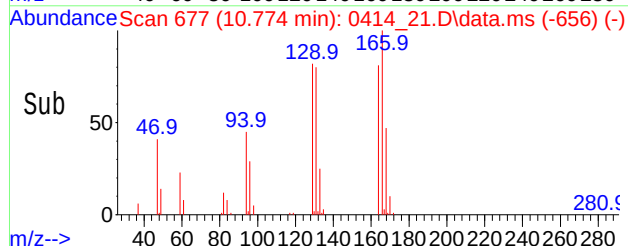
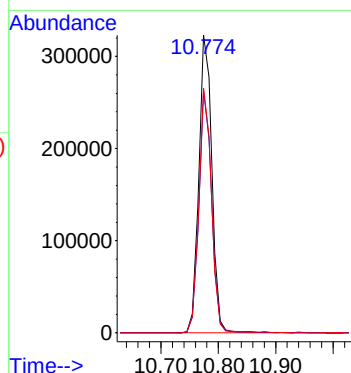
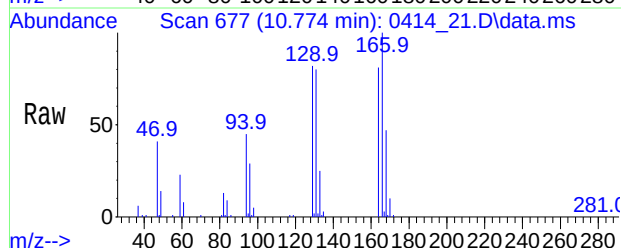
#49
Toluene
Conc: 8\$ 22.003 ppbv
RT: 10.143 min Scan# 612
Delta R.T. 0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

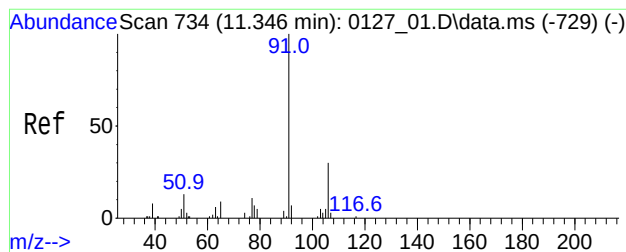
Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.3	44.8	67.2
65	12.9	10.5	15.7



#53
Tetrachloroethene
Conc: 8\$ 7.943 ppbv
RT: 10.774 min Scan# 677
Delta R.T. 0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

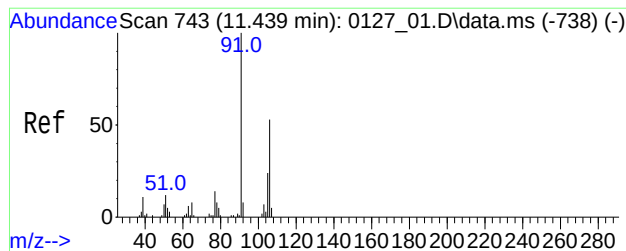
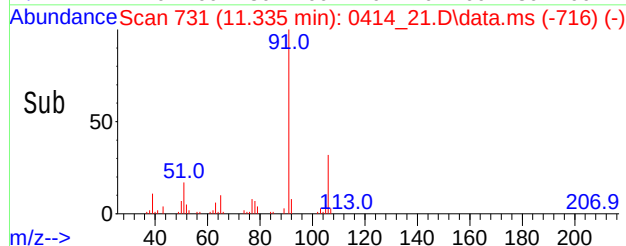
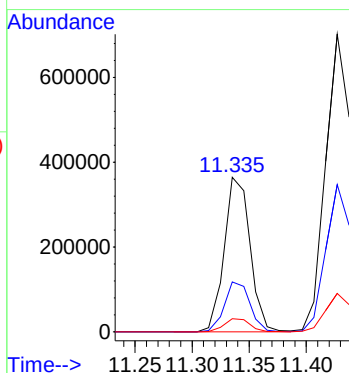
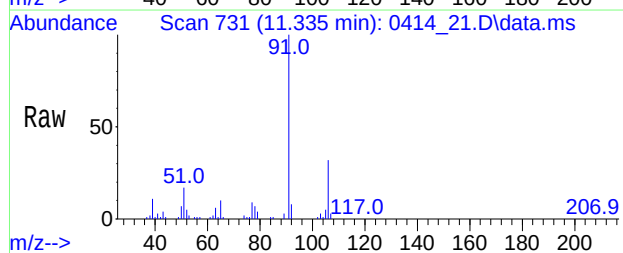
Tgt Ion	Ratio	Lower	Upper
166	100		
164	79.2	65.8	98.6
129	79.6	64.7	97.1





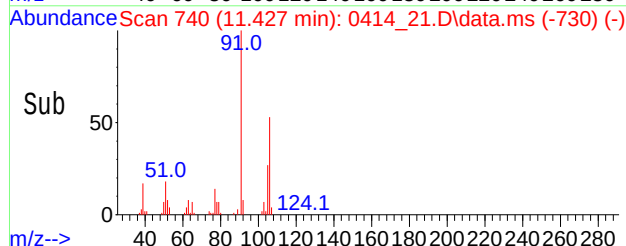
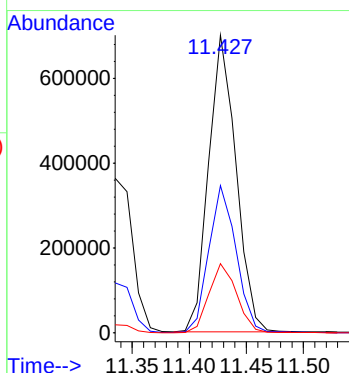
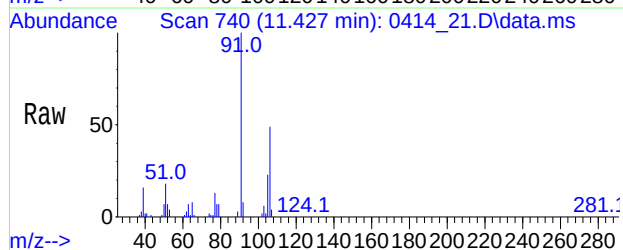
#57
Ethylbenzene
Conc: 8\$ 3.748 ppbv
RT: 11.335 min Scan# 731
Delta R.T. 0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

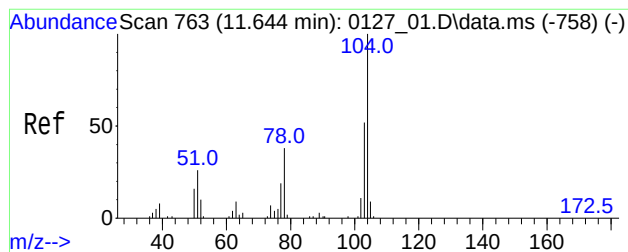
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.2	12.3	52.3
77	8.5	0.0	28.6



#58
m,p-Xylene
Conc: 8\$ 10.212 ppbv
RT: 11.427 min Scan# 740
Delta R.T. 0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

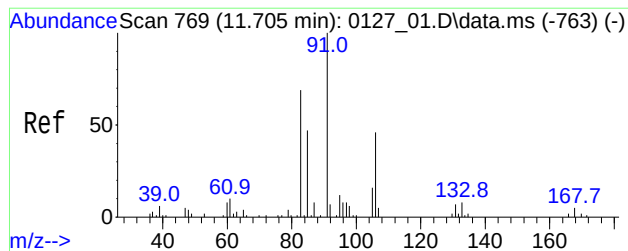
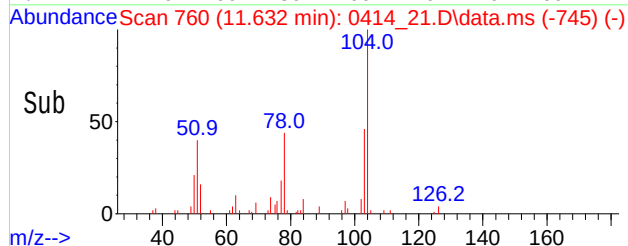
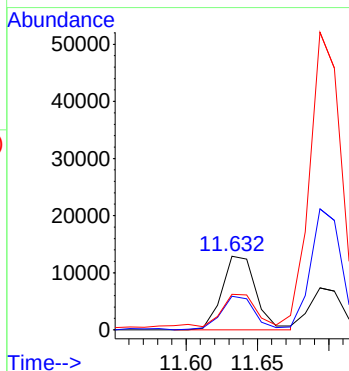
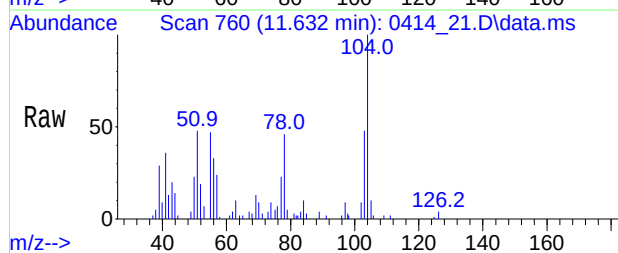
Tgt Ion	Ratio	Lower	Upper
91	100		
106	49.2	41.4	62.2
105	23.6	19.8	29.8





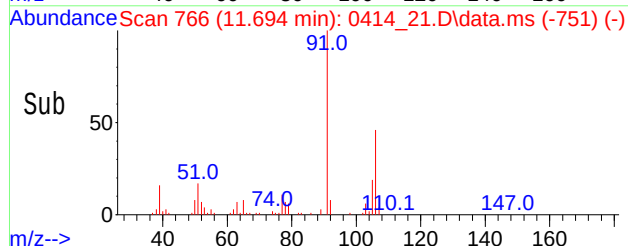
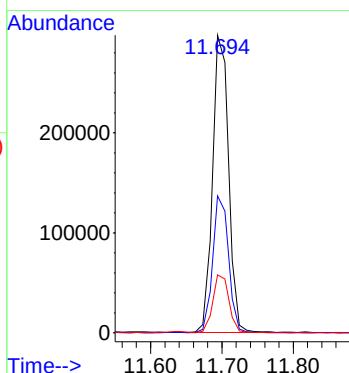
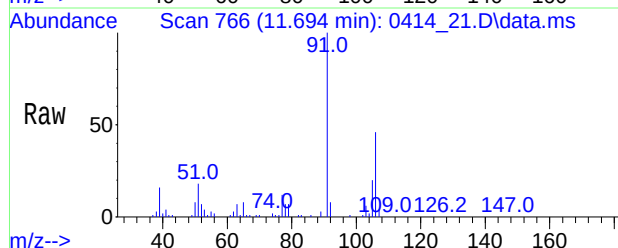
#60
Styrene
Conc: 8\$ 0.238 ppbv
RT: 11.632 min Scan# 760
Delta R.T. 0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

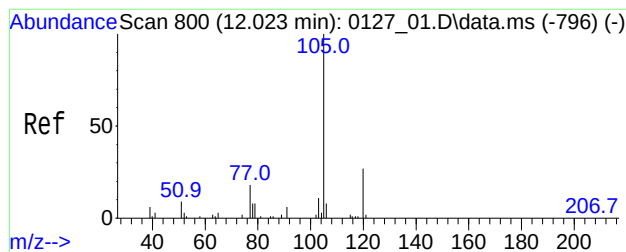
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	21457		
78	45.1	32.0	48.0	
51	48.2	30.6	45.8#	



#62
o-Xylene
Conc: 8\$ 3.761 ppbv
RT: 11.694 min Scan# 766
Delta R.T. -0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

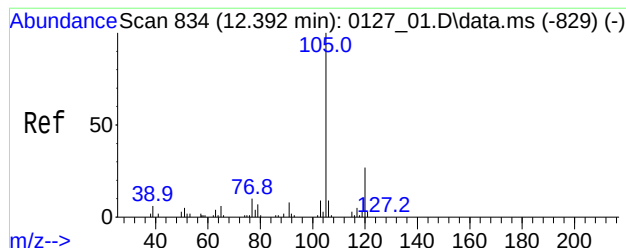
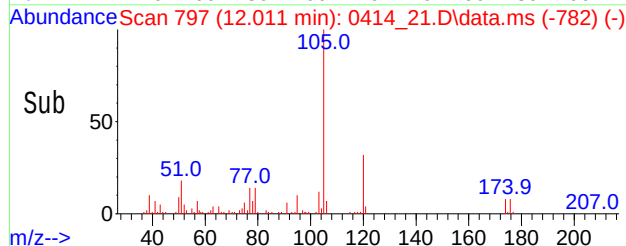
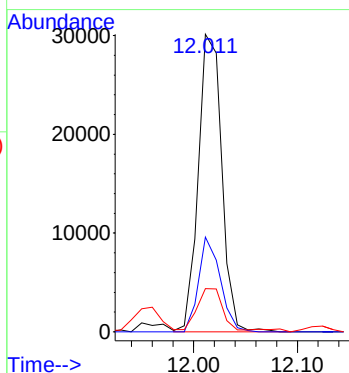
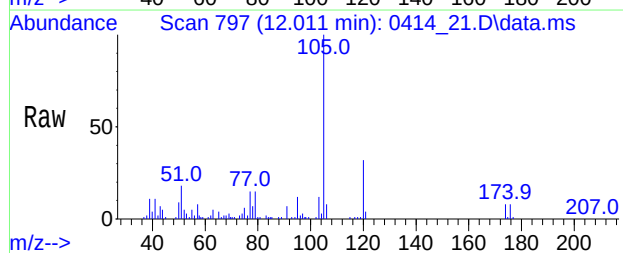
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	462645		
106	45.9	37.1	55.7	
105	19.8	16.2	24.2	





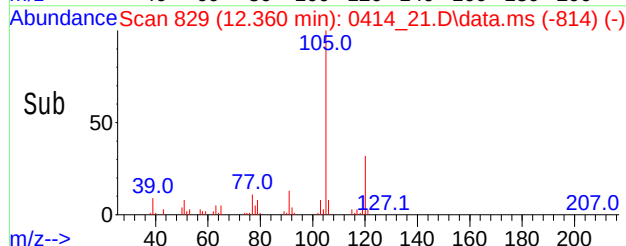
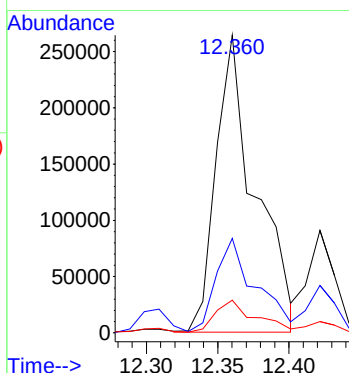
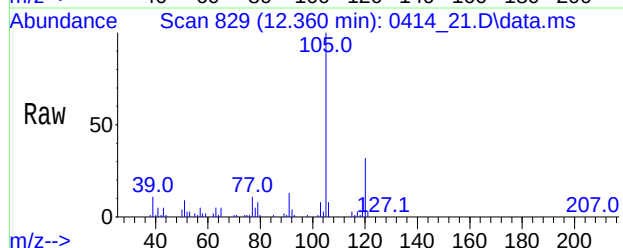
#65
Isopropylbenzene
Conc: 8\$ 0.284 ppbv
RT: 12.011 min Scan# 797
Delta R.T. 0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

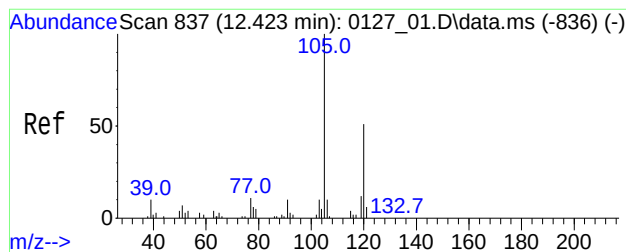
Tgt Ion:	105	Resp:	47154
Ion Ratio	100	Lower	Upper
105	100		
120	29.6	21.4	32.2
77	15.5	12.2	18.2



#67
4-Ethyltoluene
Conc: 8\$ 2.946 ppbv
RT: 12.360 min Scan# 829
Delta R.T. -0.021 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

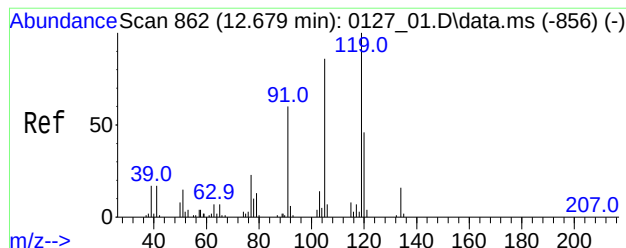
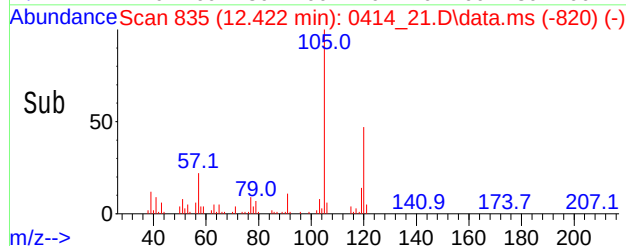
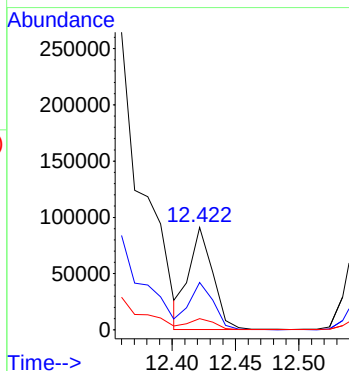
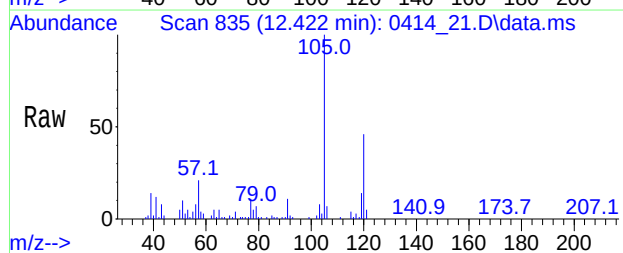
Tgt Ion:	105	Resp:	505550
Ion Ratio	100	Lower	Upper
105	100		
120	32.6	24.7	37.1
77	11.0	8.8	13.2





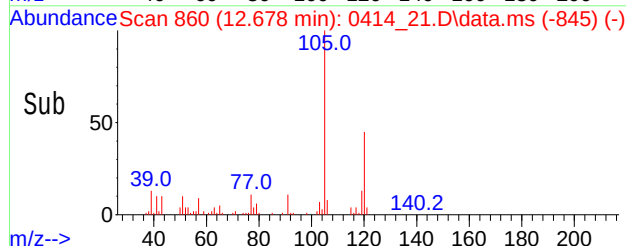
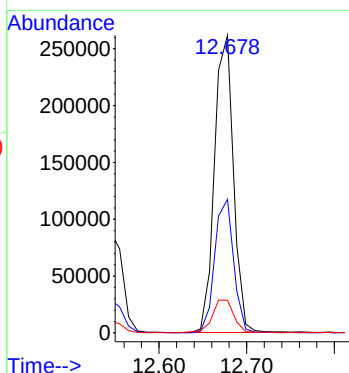
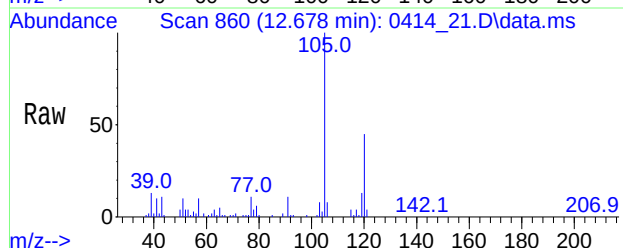
#68
1,3,5-Trimethylbenzene
Conc: 8\$ 0.823 ppbv
RT: 12.422 min Scan# 835
Delta R.T. -0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

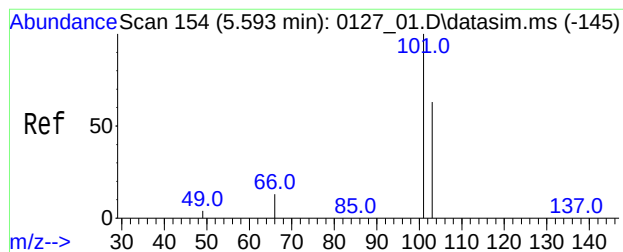
Tgt	Ion	Ratio	Resp	Lower	Upper
105	105	100	119031		
120	47.5	36.6	55.0		
77	11.9	9.9	14.9		



#69
1,2,4-Trimethylbenzene
Conc: 8\$ 2.677 ppbv
RT: 12.678 min Scan# 860
Delta R.T. 0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

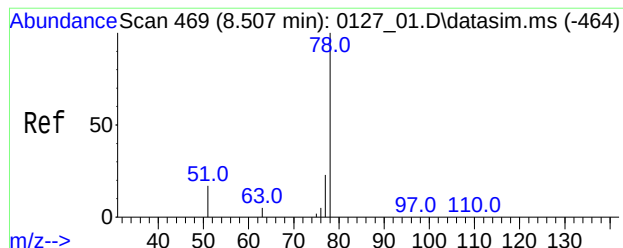
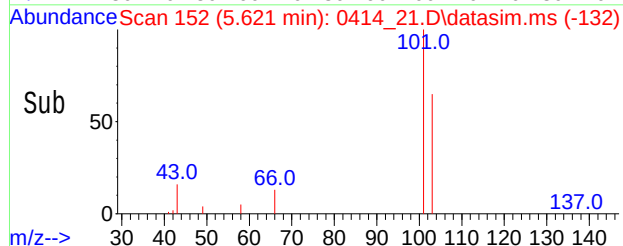
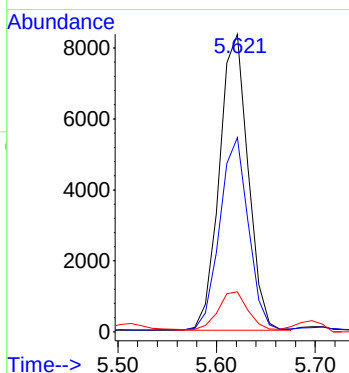
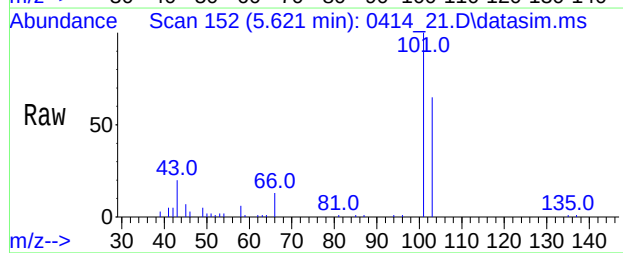
Tgt	Ion	Ratio	Resp	Lower	Upper
105	105	100	393247		
120	44.9	44.3	66.5		
77	12.6	17.8	26.8#		





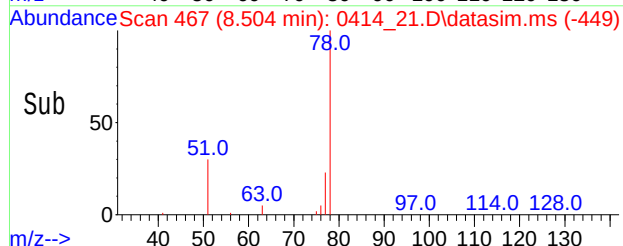
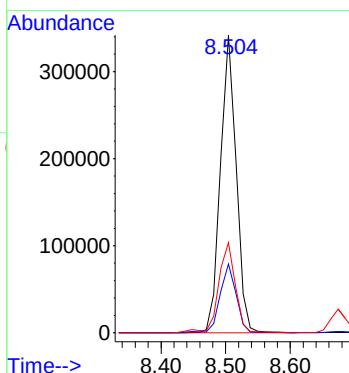
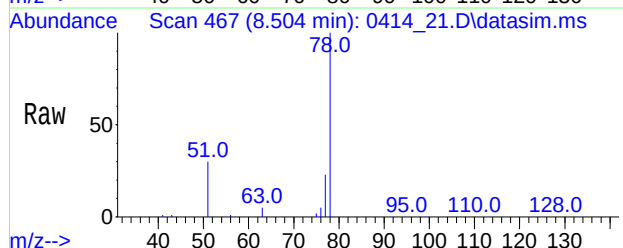
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.214 ppbv
RT: 5.621 min Scan# 152
Delta R.T. 0.011 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

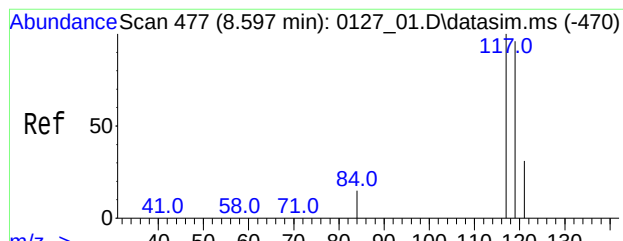
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	16891		
103	64.8	52.5	78.7	
66	14.3	18.3	18.3	



#88
Benzene(sim)
Conc: 8\$ 5.298 ppbv
RT: 8.499 min Scan# 467
Delta R.T. -0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

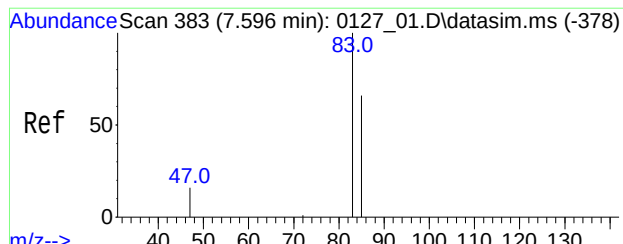
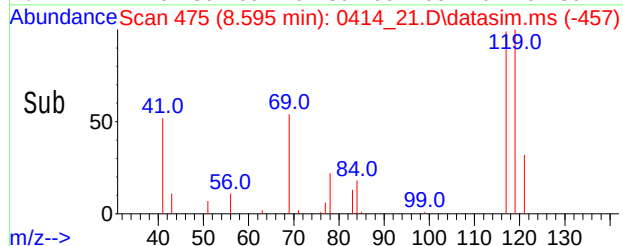
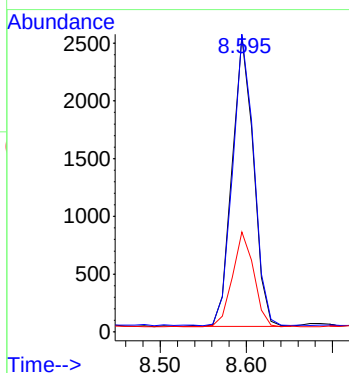
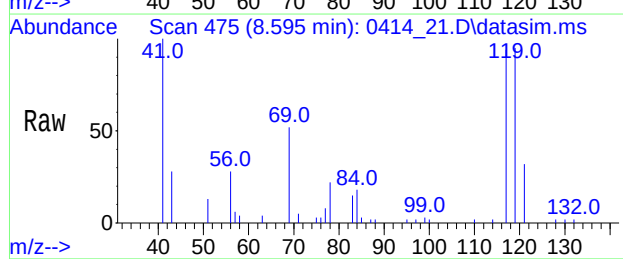
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	533899		
77	23.7	20.0	30.0	
51	31.8	24.3	36.5	





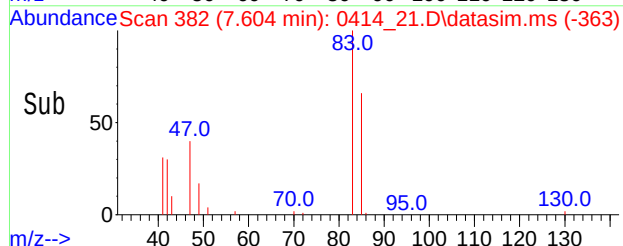
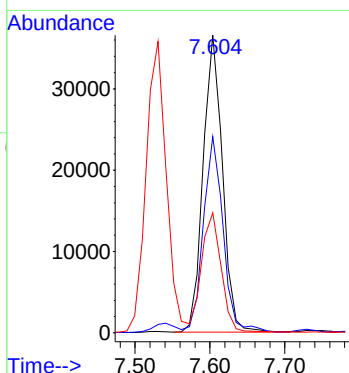
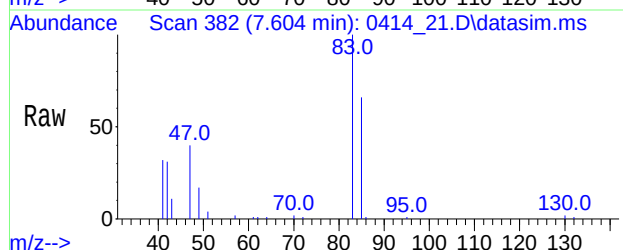
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.067 ppbv
RT: 8.595 min Scan# 475
Delta R.T. -0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

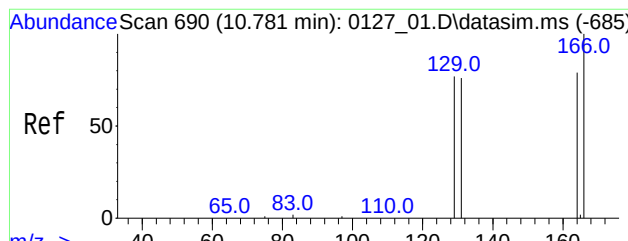
Tgt Ion:	117	Resp:	4354
Ion Ratio	Lower	Upper	
117	100		
119	99.8	79.2	118.8
121	32.8	25.5	38.3



#95
Chloroform(sim)
Conc: 8\$ 0.942 ppbv
RT: 7.604 min Scan# 382
Delta R.T. 0.001 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

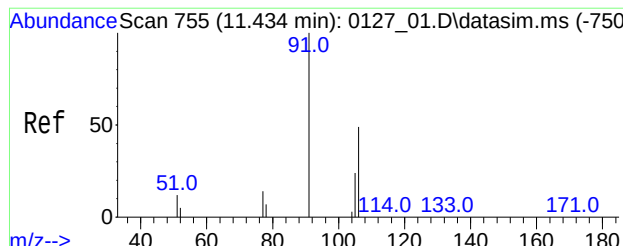
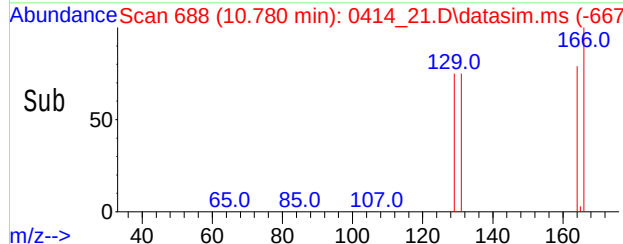
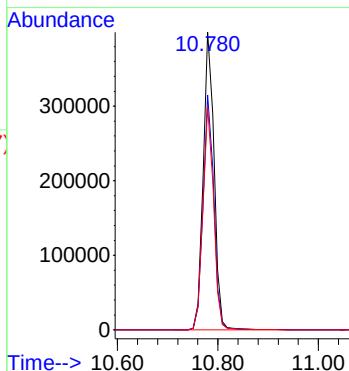
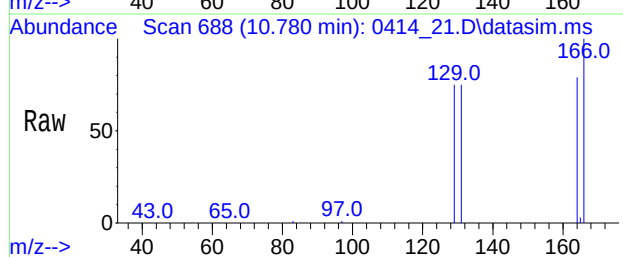
Tgt Ion:	83	Resp:	65457
Ion Ratio	Lower	Upper	
83	100		
85	67.3	51.5	77.3
47	40.7	31.4	47.2





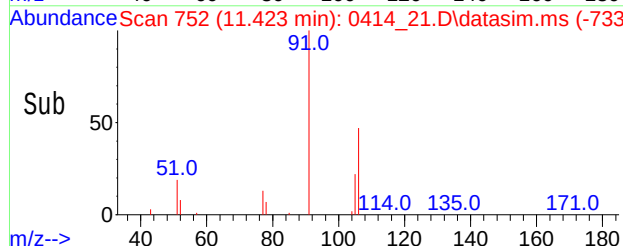
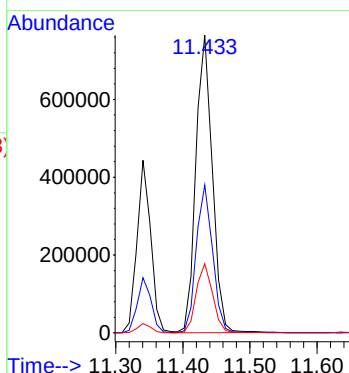
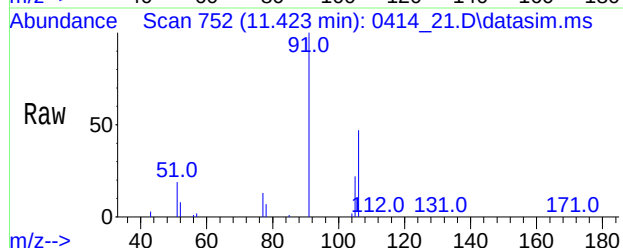
#105
Tetrachloroethene(sim)
Conc: 8\$ 7.133 ppbv
RT: 10.780 min Scan# 688
Delta R.T. -0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.3	58.6	98.6
129	74.2	53.3	93.3



#108
m,p-Xylene(sim)
Conc: 8\$ 9.195 ppbv
RT: 11.427 min Scan# 752
Delta R.T. 0.000 min
Lab File: 0414_21.D
Acq: 14 Apr 2023 9:11 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	49.1	47.5	58.1
105	23.5	19.4	29.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SV-4

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CN84184
Canister:	28605	Lab File ID:	0417_12.D
Instrument:	CHEM20	Column:	RTX-1 60M
Date Received:	04/14/23		
Purge Volume	200	(cc)	04/17/23
Date Analyzed:	04/17/23		
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.440		0.202	0.202	r
74-87-3	Chloromethane	0.714		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	41.2	ES	0.531	0.531	r
67-64-1	Acetone	15.9	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.195		0.178	0.178	r
67-63-0	Isopropylalcohol	1.43	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.682		0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.703		0.339	0.339	r
110-54-3	Hexane	0.440	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.509		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.651		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.12		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.469		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN84181 Lab Sample ID: CN84184

Canister: 28605 Lab File ID: 0417_12.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/14/23

Purge Volume 200 (cc) Date Analyzed: 04/17/23

Matrix: AIR Dilution Factor: 1

SV-4

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.048		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.368		0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_12.D
 Acq On : 17 Apr 2023 3:16 pm
 Operator :
 Client ID : SV-4
 Lab ID : CN84184
 ALS Vial : 8 Sample Multiplier: 1

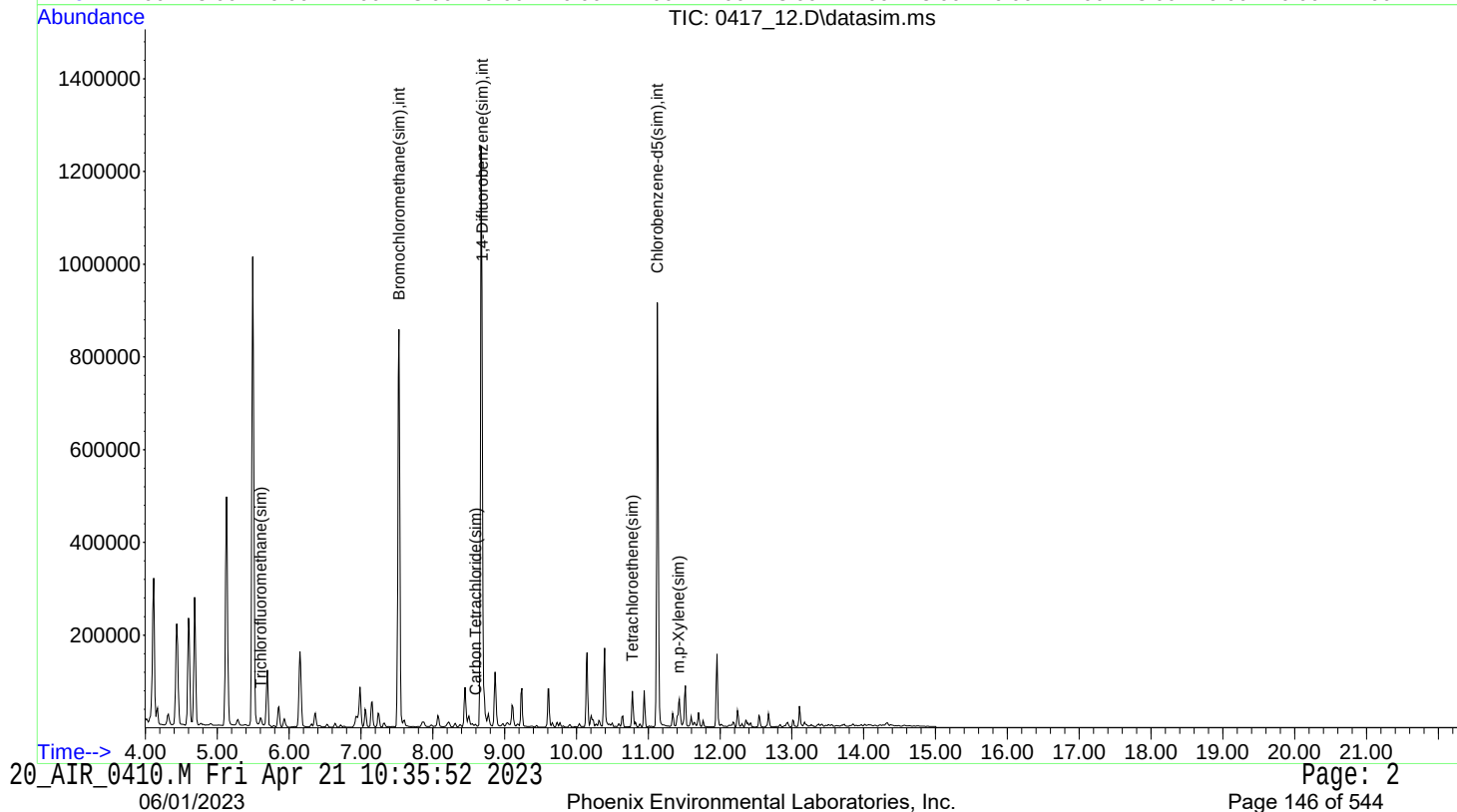
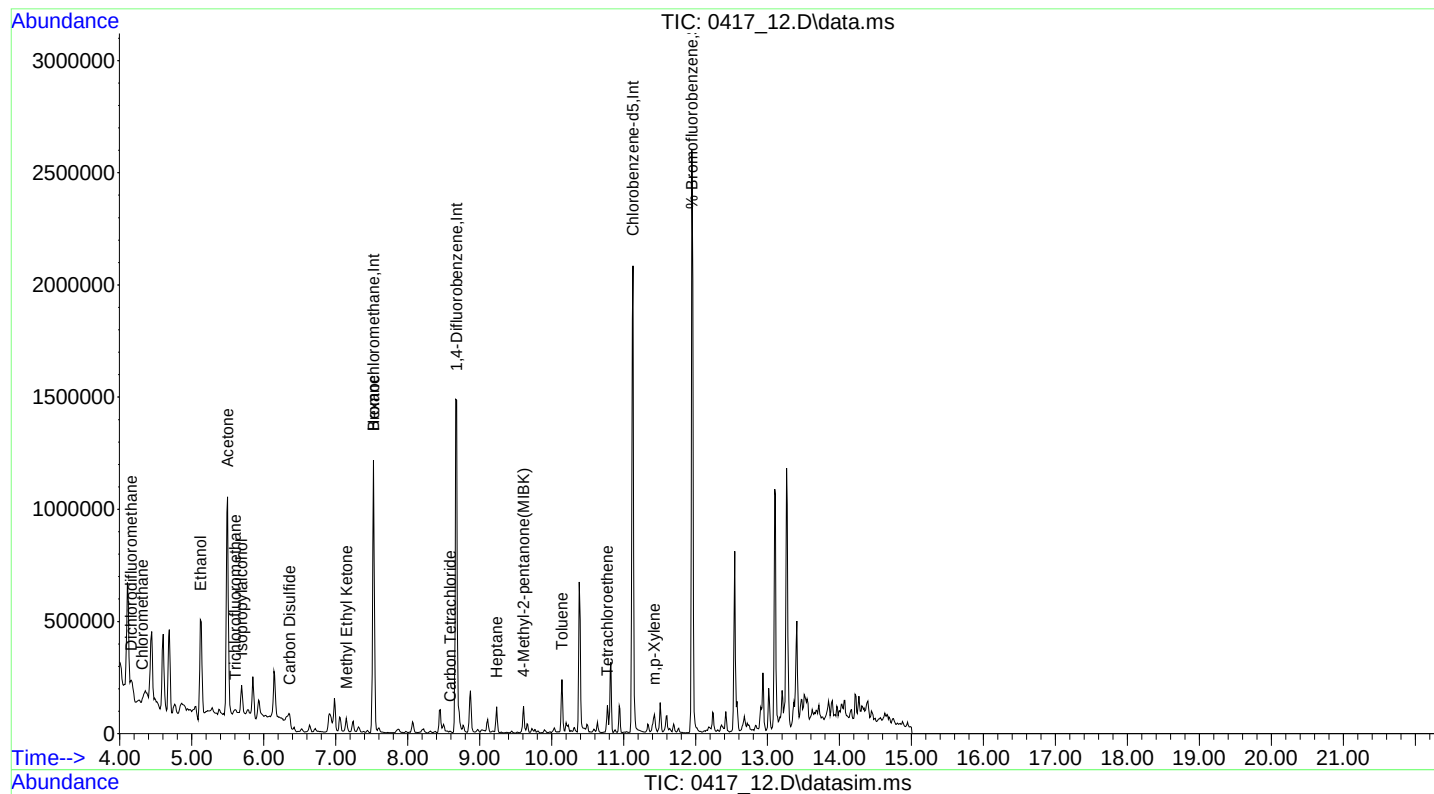
Quant Time: Apr 18 12:26:24 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

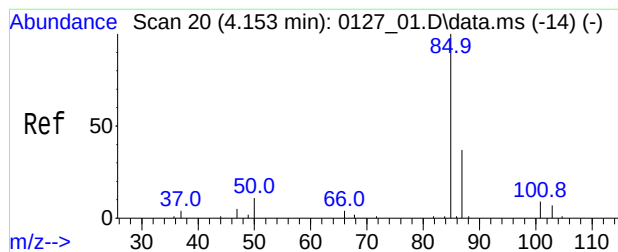
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	306591	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1123700	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	509265	10.000	ng	0.00
81) Bromochloromethane(sim)	7.530	130	337878	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1123847	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	508402	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	724751	10.421	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.20%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.160	85	31853	0.440	ppbv	95
4) Chloromethane	4.311	50	27663	0.714	ppbv	91
11) Ethanol	5.120	45	575964	41.173	ppbv#	82
12) Acetone	5.497	43	1122358	15.934	ppbv	97
13) Trichlorofluoromethane	5.605	101	15109	0.195	ppbv	98
14) Isopropylalcohol	5.691	45	90473	1.434	ppbv	98
20) Carbon Disulfide	6.359	76	47656	0.682	ppbv	97
26) Methyl Ethyl Ketone	7.148	43	75571	0.703	ppbv	97
28) Hexane	7.525	57	28856	0.440	ppbv	99
35) Carbon Tetrachloride	8.589	117	2939	0.044	ppbv	88
44) Heptane	9.234	43	49616	0.509	ppbv#	93
46) 4-Methyl-2-pentanone(M...)	9.609	43	83135m	0.651	ppbv	94
49) Toluene	10.143	91	133263	1.123	ppbv	98
53) Tetrachloroethene	10.774	166	29854	0.469	ppbv	96
58) m,p-Xylene	11.427	91	44528	0.411	ppbv	95
85) Trichlorofluoromethane...	5.599	101	16221	0.202	ppbv#	97
89) Carbon Tetrachloride(sim)	8.595	117	3199	0.048	ppbv	99
105) Tetrachloroethene(sim)	10.780	166	35140	0.421	ppbv	98
108] m,p-Xylene(sim)	11.427	91	44706	0.367	ppbv	95

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2023\CHEM20\04APR\17\
Data File : 0417_12.D
Acq On : 17 Apr 2023 3:16 pm
Operator :
Client ID : SV-4
Lab ID : CN84184
ALS Vial : 8 Sample Multiplier: 1

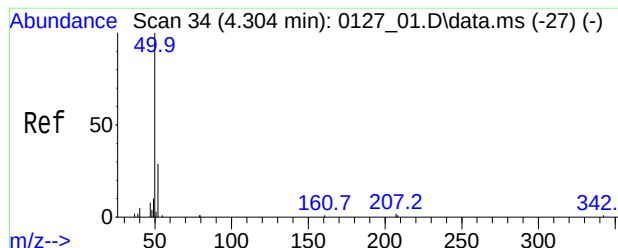
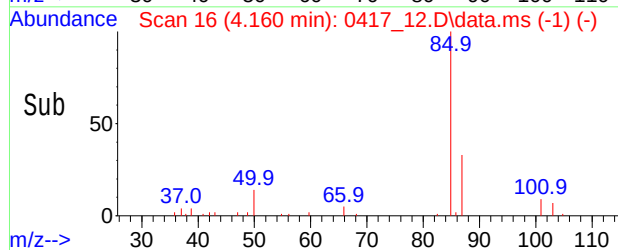
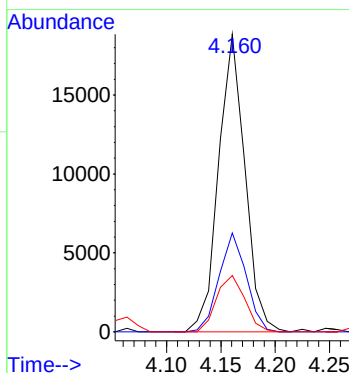
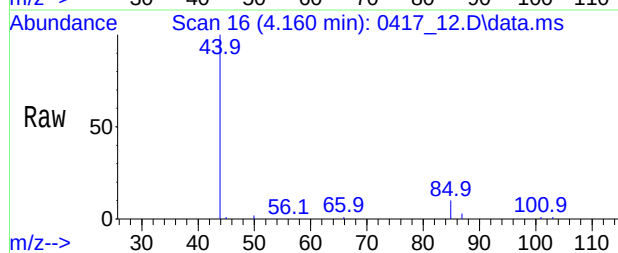
Quant Time: Apr 18 12:26:24 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration





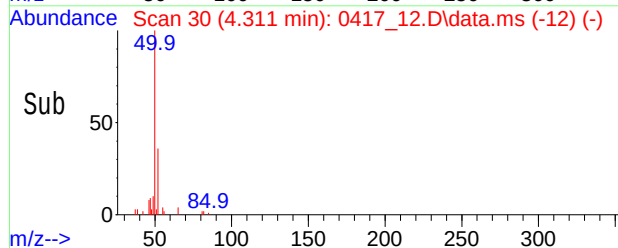
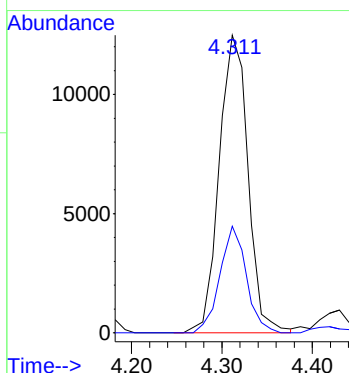
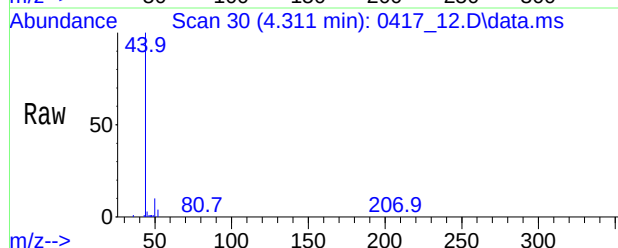
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.440 ppbv
 RT: 4.160 min Scan# 16
 Delta R.T. -0.011 min
 Lab File: 0417_12.D
 Acq: 17 Apr 2023 3:16 pm

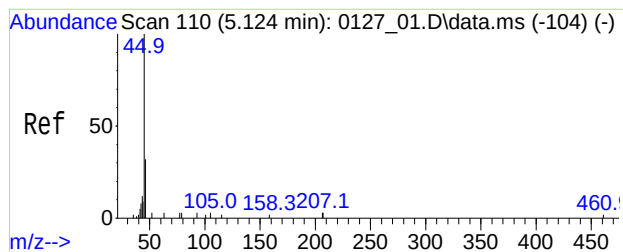
Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.2	25.1	37.7
50	20.4	18.1	27.1



#4
 Chloromethane
 Conc: 8\$ 0.714 ppbv
 RT: 4.311 min Scan# 30
 Delta R.T. -0.011 min
 Lab File: 0417_12.D
 Acq: 17 Apr 2023 3:16 pm

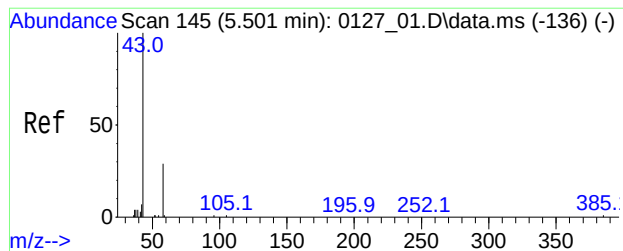
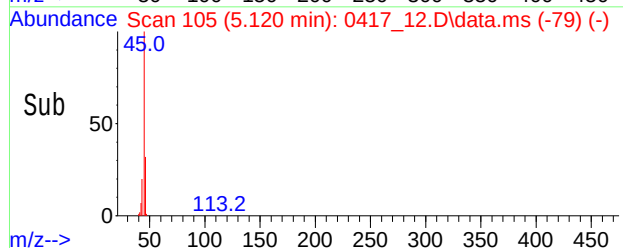
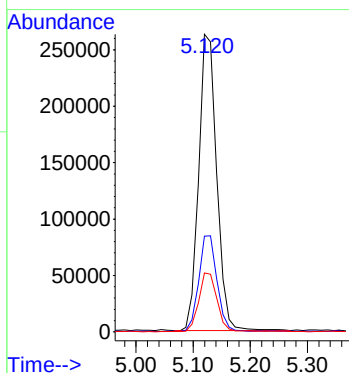
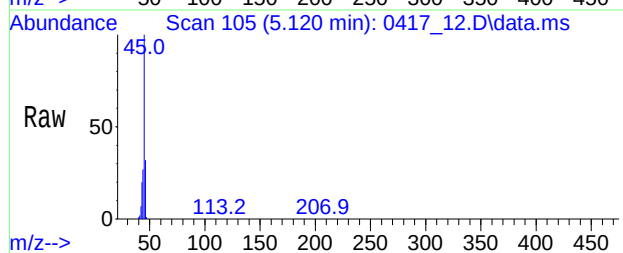
Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.9	18.1	58.1





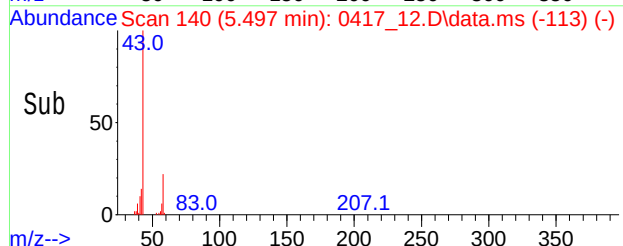
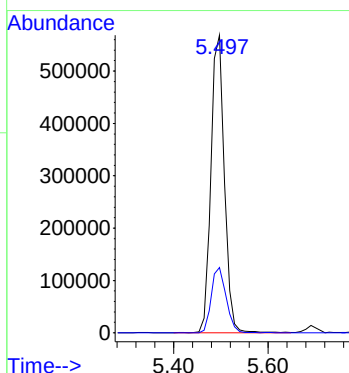
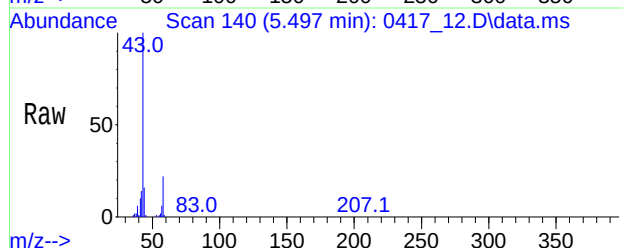
#11
Ethanol
Conc: 8\$ 41.173 ppbv
RT: 5.120 min Scan# 105
Delta R.T. -0.021 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

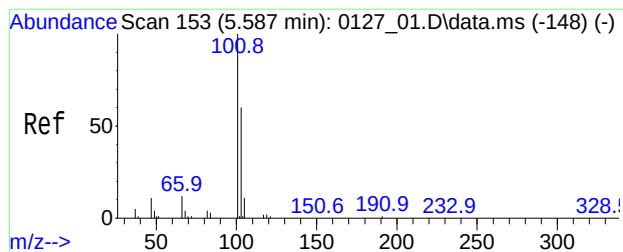
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.7	25.1	37.7
43	20.2	31.4	47.2#



#12
Acetone
Conc: 8\$ 15.934 ppbv
RT: 5.497 min Scan# 140
Delta R.T. -0.011 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

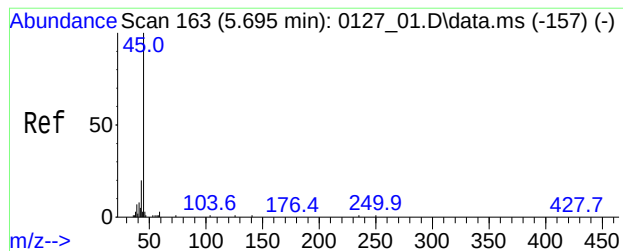
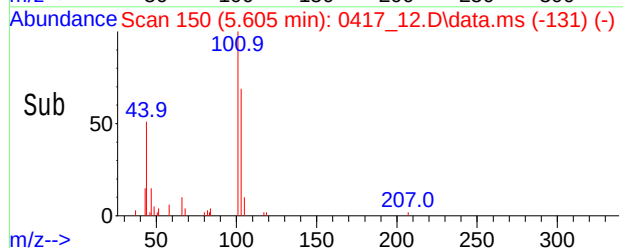
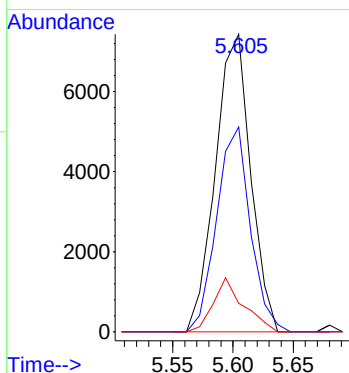
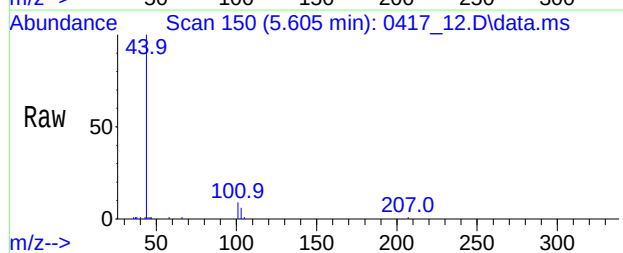
Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.4	20.6	30.8





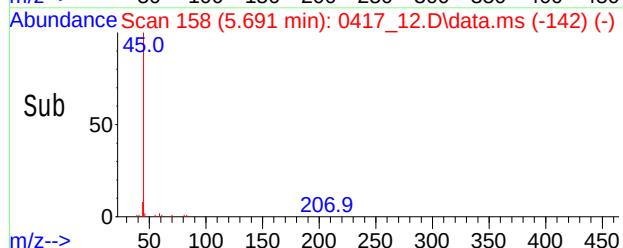
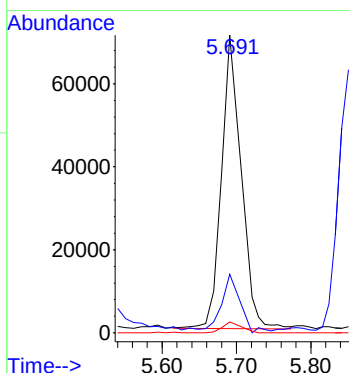
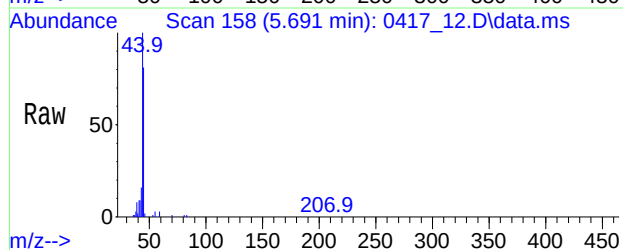
#13
 Trichlorofluoromethane
 Conc: 8\$ 0.195 ppbv
 RT: 5.605 min Scan# 150
 Delta R.T. -0.000 min
 Lab File: 0417_12.D
 Acq: 17 Apr 2023 3:16 pm

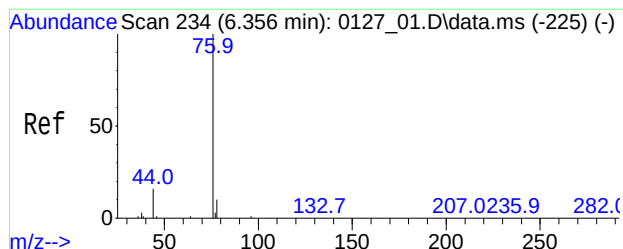
Tgt Ion:	101	Resp:	15109
Ion Ratio	Lower	Upper	
101	100		
103	65.9	53.8	80.8
66	15.6	12.9	19.3



#14
 Isopropylalcohol
 Conc: 8\$ 1.434 ppbv
 RT: 5.691 min Scan# 158
 Delta R.T. -0.030 min
 Lab File: 0417_12.D
 Acq: 17 Apr 2023 3:16 pm

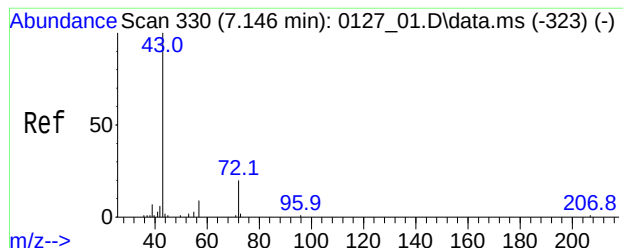
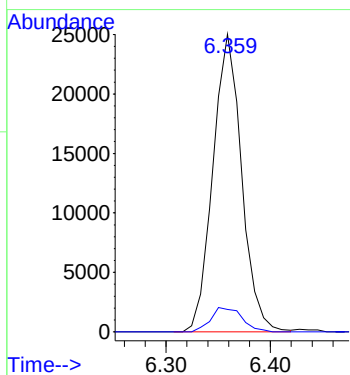
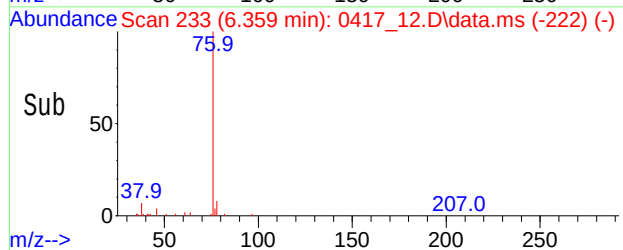
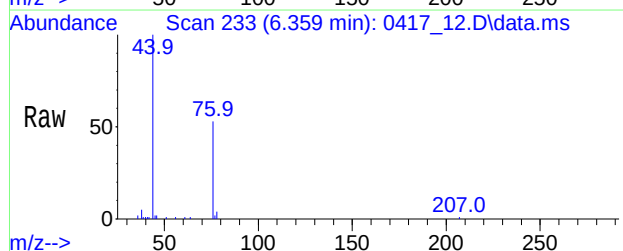
Tgt Ion:	45	Resp:	90473
Ion Ratio	Lower	Upper	
45	100		
43	19.0	15.9	23.9
59	3.8	3.6	5.4





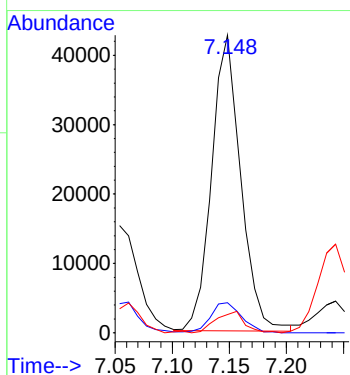
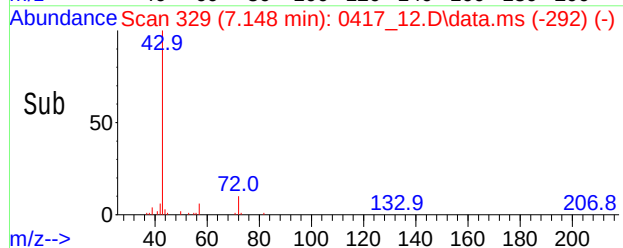
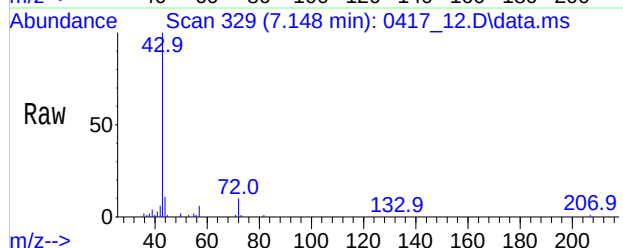
#20
Carbon Disulfide
Conc: 8\$ 0.682 ppbv
RT: 6.359 min Scan# 233
Delta R.T. -0.009 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

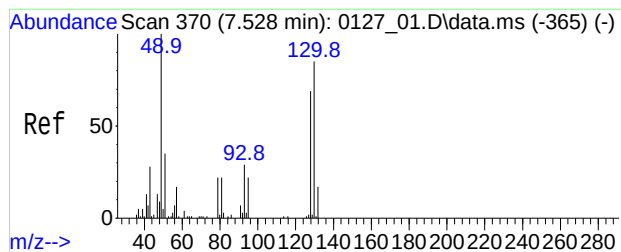
Tgt Ion: 76 Resp: 47656
Ion Ratio Lower Upper
76 100
78 8.9 6.4 9.6



#26
Methyl Ethyl Ketone
Conc: 8\$ 0.703 ppbv
RT: 7.148 min Scan# 329
Delta R.T. -0.008 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

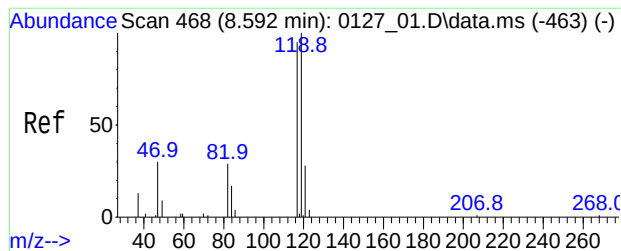
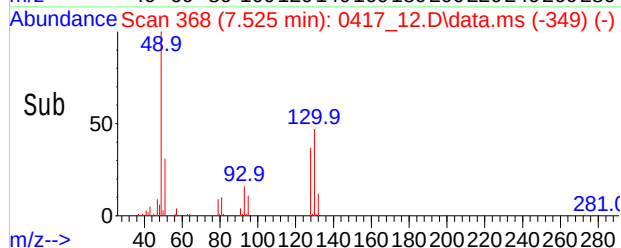
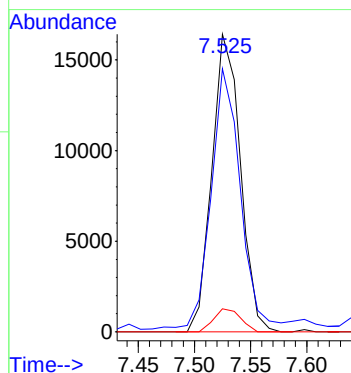
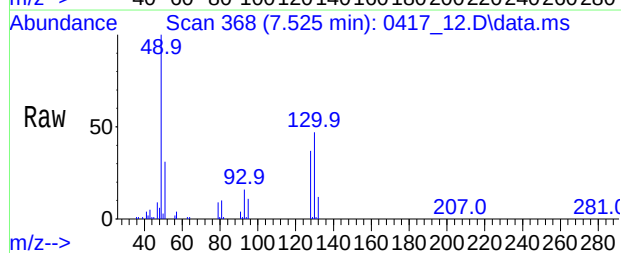
Tgt Ion: 43 Resp: 75571
Ion Ratio Lower Upper
43 100
72 11.0 10.2 15.4
57 7.3 6.1 9.1





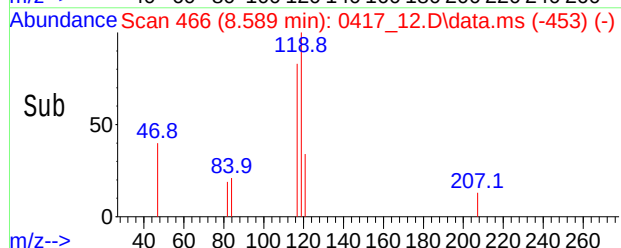
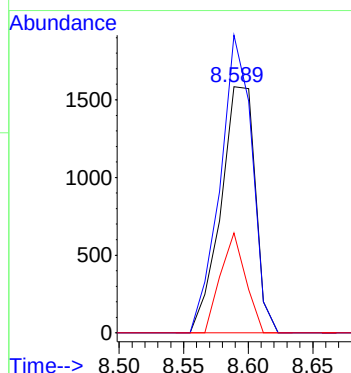
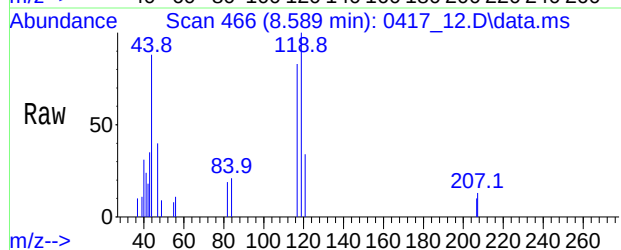
#28
Hexane
Conc: 8\$ 0.440 ppbv
RT: 7.525 min Scan# 368
Delta R.T. -0.000 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

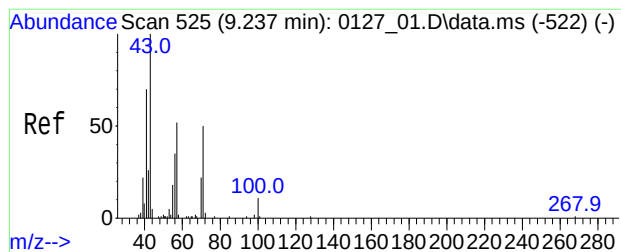
Tgt Ion	Ratio	Lower	Upper
57	100		
41	90.8	72.3	108.5
86	7.3	7.0	10.6



#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.589 min Scan# 466
Delta R.T. 0.000 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

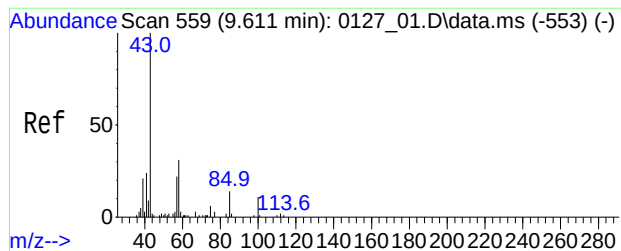
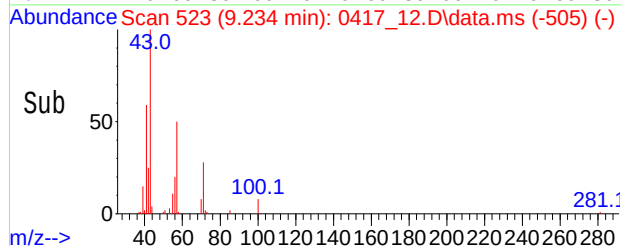
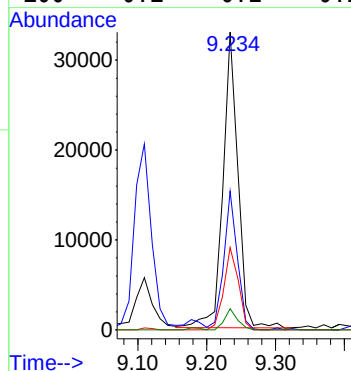
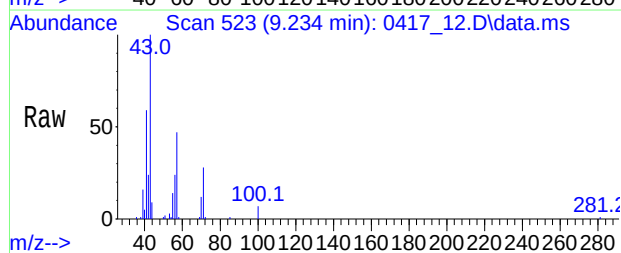
Tgt Ion	Ratio	Lower	Upper
117	100		
119	111.9	77.5	117.5
121	29.6	12.4	52.4





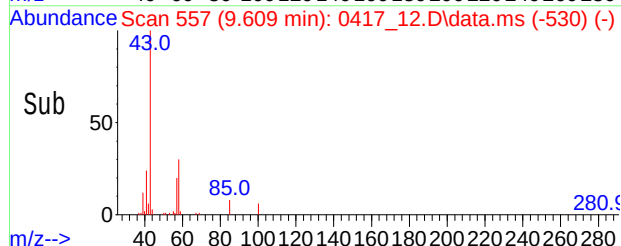
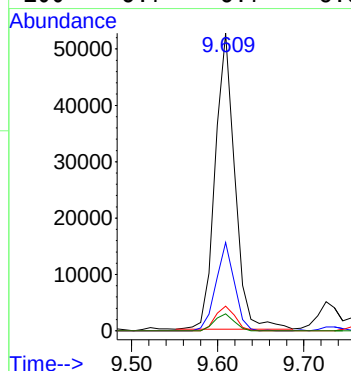
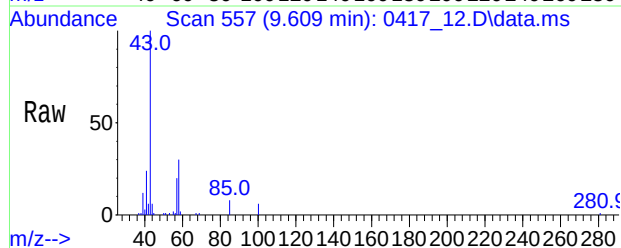
#44
Heptane
Conc: 8\$ 0.509 ppbv
RT: 9.234 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

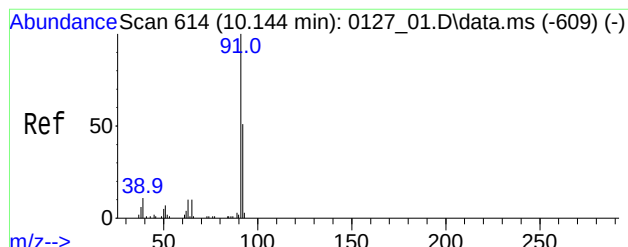
Tgt Ion: 43	Resp: 49616
Ion Ratio	Lower Upper
43 100	
57 42.3	37.9 56.9
71 27.1	24.4 36.6
100 6.1	6.2 9.2#



#46
4-Methyl-2-pentanone(MIBK)
Conc: 8\$ 0.651 ppbv
RT: 9.609 min Scan# 557
Delta R.T. 0.000 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

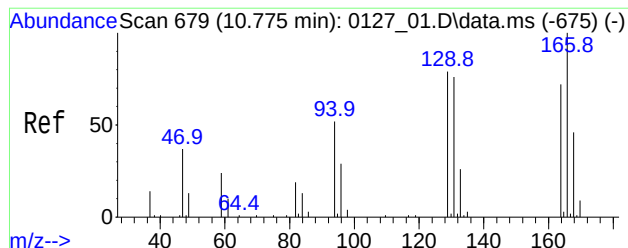
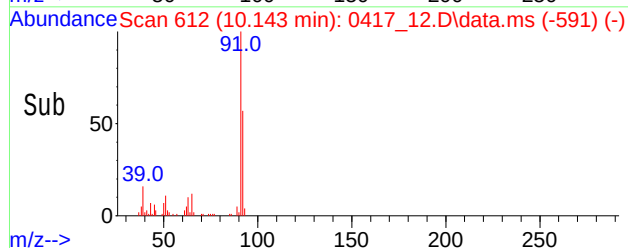
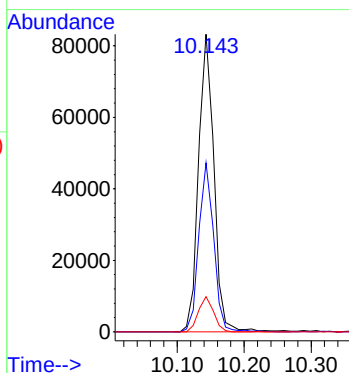
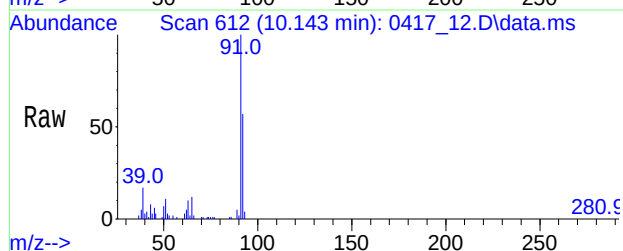
Tgt Ion: 43	Resp: 83135
Ion Ratio	Lower Upper
43 100	
58 27.9	25.4 38.2
85 8.3	8.0 12.0
100 5.7	5.7 8.5





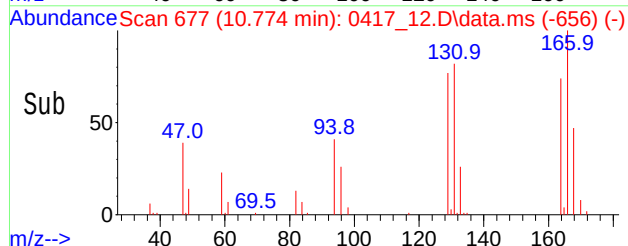
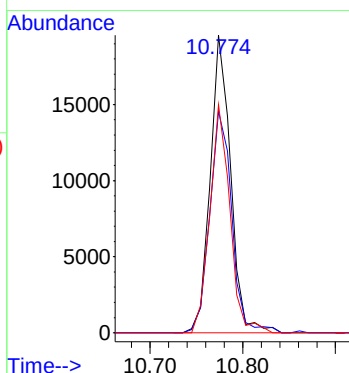
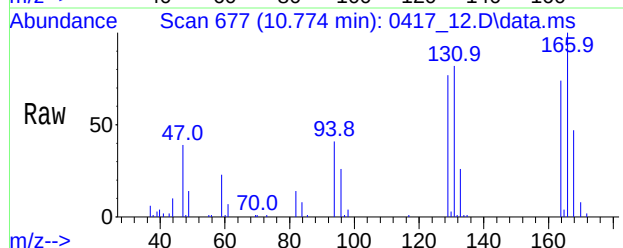
#49
Toluene
Conc: 8\$ 1.123 ppbv
RT: 10.143 min Scan# 612
Delta R.T. 0.000 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

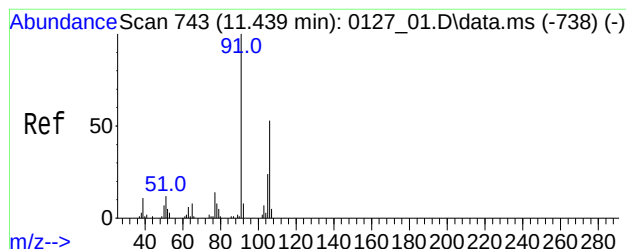
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.1	44.8	67.2
65	11.7	10.5	15.7



#53
Tetrachloroethene
Conc: 8\$ 0.469 ppbv
RT: 10.774 min Scan# 677
Delta R.T. -0.000 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

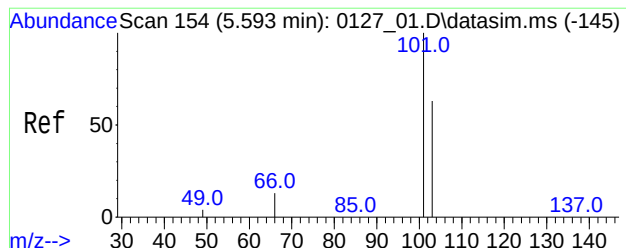
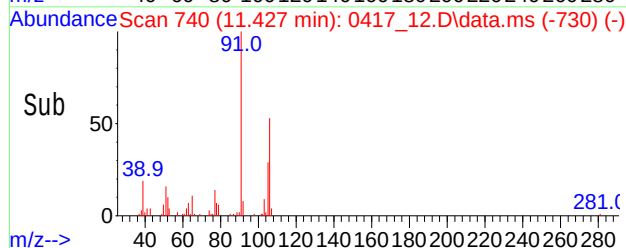
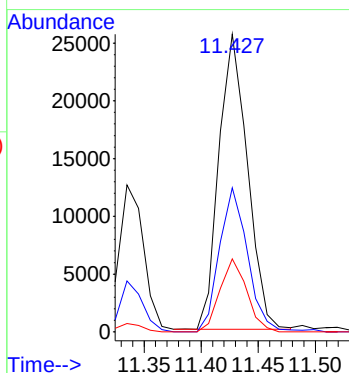
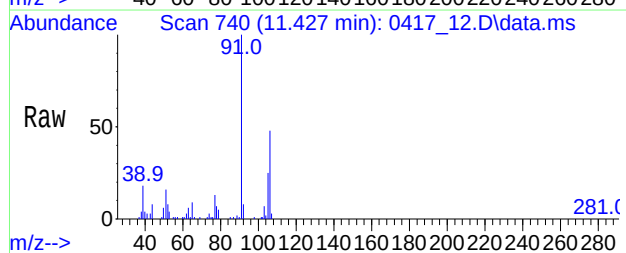
Tgt Ion	Ratio	Lower	Upper
166	100		
164	80.2	65.8	98.6
129	75.2	64.7	97.1





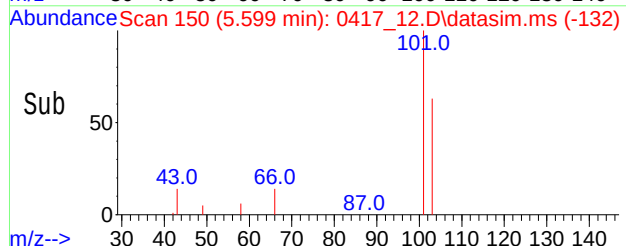
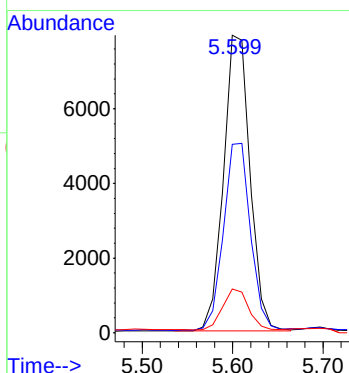
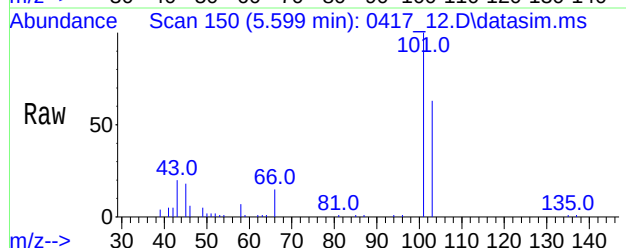
#58
m,p-Xylene
Conc: 8\$ 0.411 ppbv
RT: 11.427 min Scan# 740
Delta R.T. 0.000 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

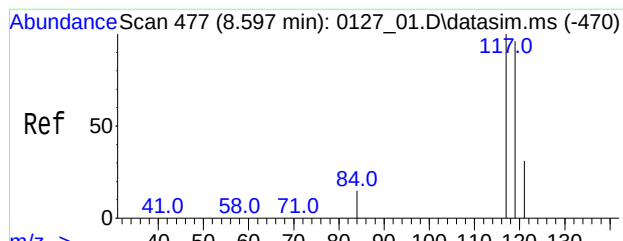
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	44528		
106	48.1		41.4	62.2
105	23.2		19.8	29.8



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.202 ppbv
RT: 5.599 min Scan# 150
Delta R.T. -0.011 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

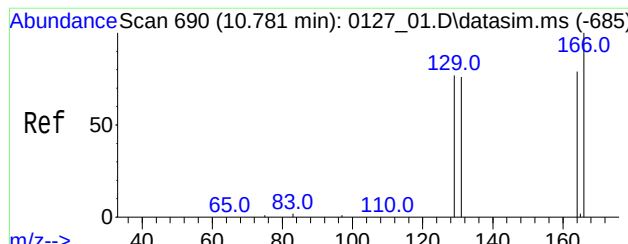
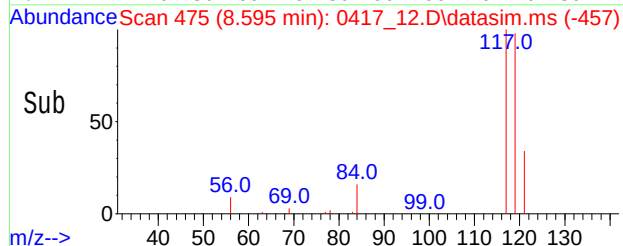
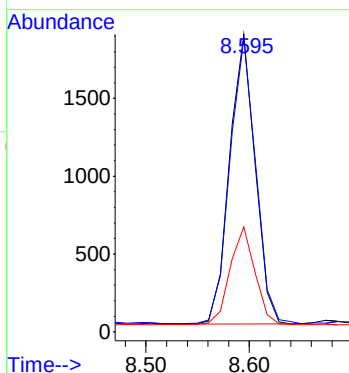
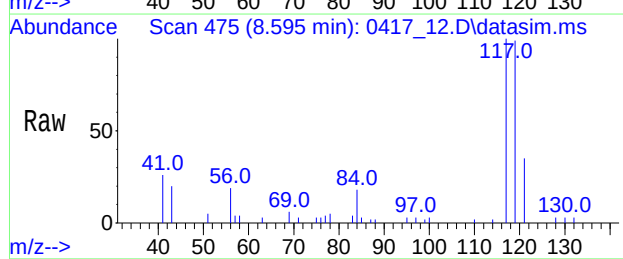
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	16221		
103	64.7		52.5	78.7
66	14.2		18.3	18.3#





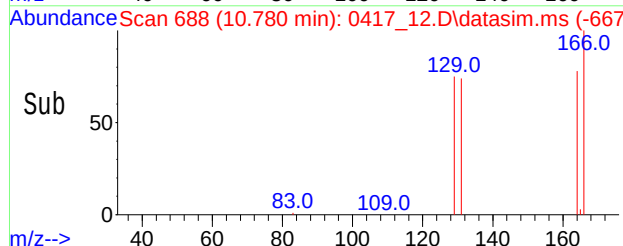
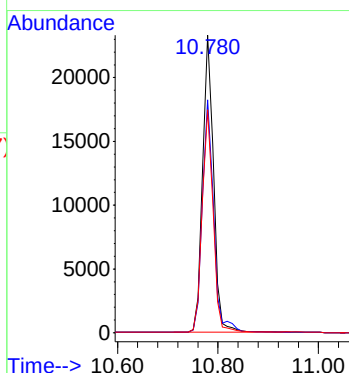
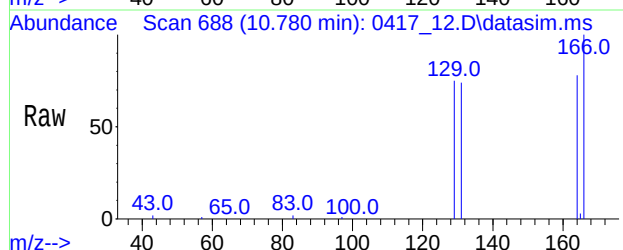
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.048 ppbv
RT: 8.595 min Scan# 475
Delta R.T. -0.000 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

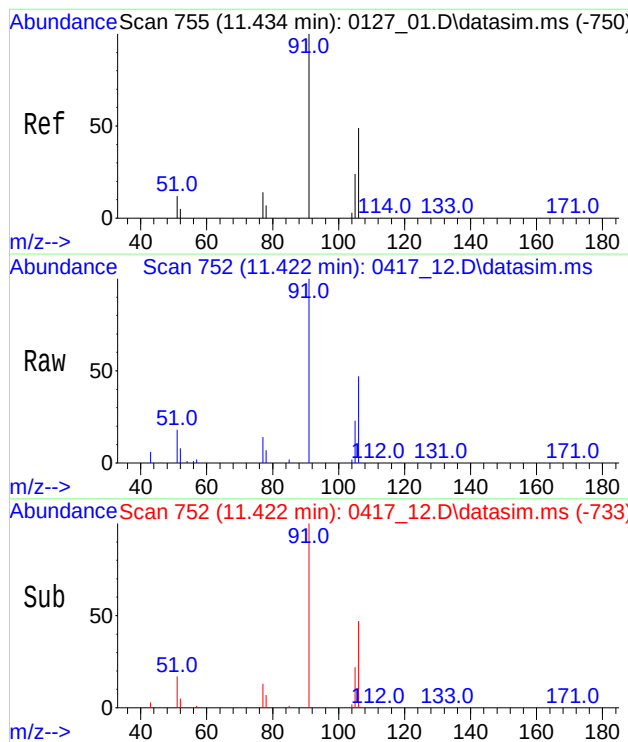
Tgt Ion:	117	Resp:	3199
Ion Ratio	Lower	Upper	
117	100		
119	99.5	79.2	118.8
121	33.3	25.5	38.3



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.421 ppbv
RT: 10.780 min Scan# 688
Delta R.T. -0.000 min
Lab File: 0417_12.D
Acq: 17 Apr 2023 3:16 pm

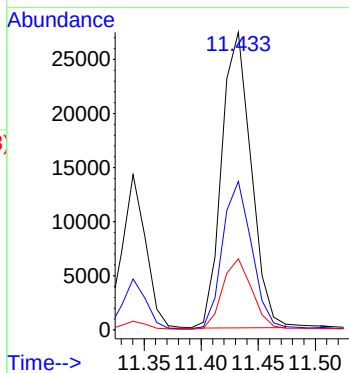
Tgt Ion:	166	Resp:	35140
Ion Ratio	Lower	Upper	
166	100		
164	80.9	58.6	98.6
129	74.9	53.3	93.3





#108
 m,p-Xylene(sim)
 Conc: 8\$ 0.367 ppbv
 RT: 11.427 min Scan# 752
 Delta R.T. 0.000 min
 Lab File: 0417_12.D
 Acq: 17 Apr 2023 3:16 pm

Tgt Ion: 91	Resp: 44706
Ion Ratio Lower Upper	
91 100	
106 48.2	47.5 58.1
105 23.1	19.4 29.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	AMBIENT
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84185</u>	
Canister:	<u>461</u>	Lab File ID:	<u>0414_22.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>04/14/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/14/23</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.439		0.202	0.202	r
74-87-3	Chloromethane	0.534		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	5.62	S	0.531	0.531	r
67-64-1	Acetone	3.14	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.193		0.178	0.178	r
67-63-0	Isopropylalcohol	0.660	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.377		0.051	0.051	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	1.44		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.718		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	AMBIENT
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84185</u>	
Canister:	<u>461</u>	Lab File ID:	<u>0414_22.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>04/14/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/14/23</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.066		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.144		0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_22.D
 Acq On : 14 Apr 2023 9:49 pm
 Operator :
 Client ID : AMBIENT
 Lab ID : CN84185
 ALS Vial : 19 Sample Multiplier: 1

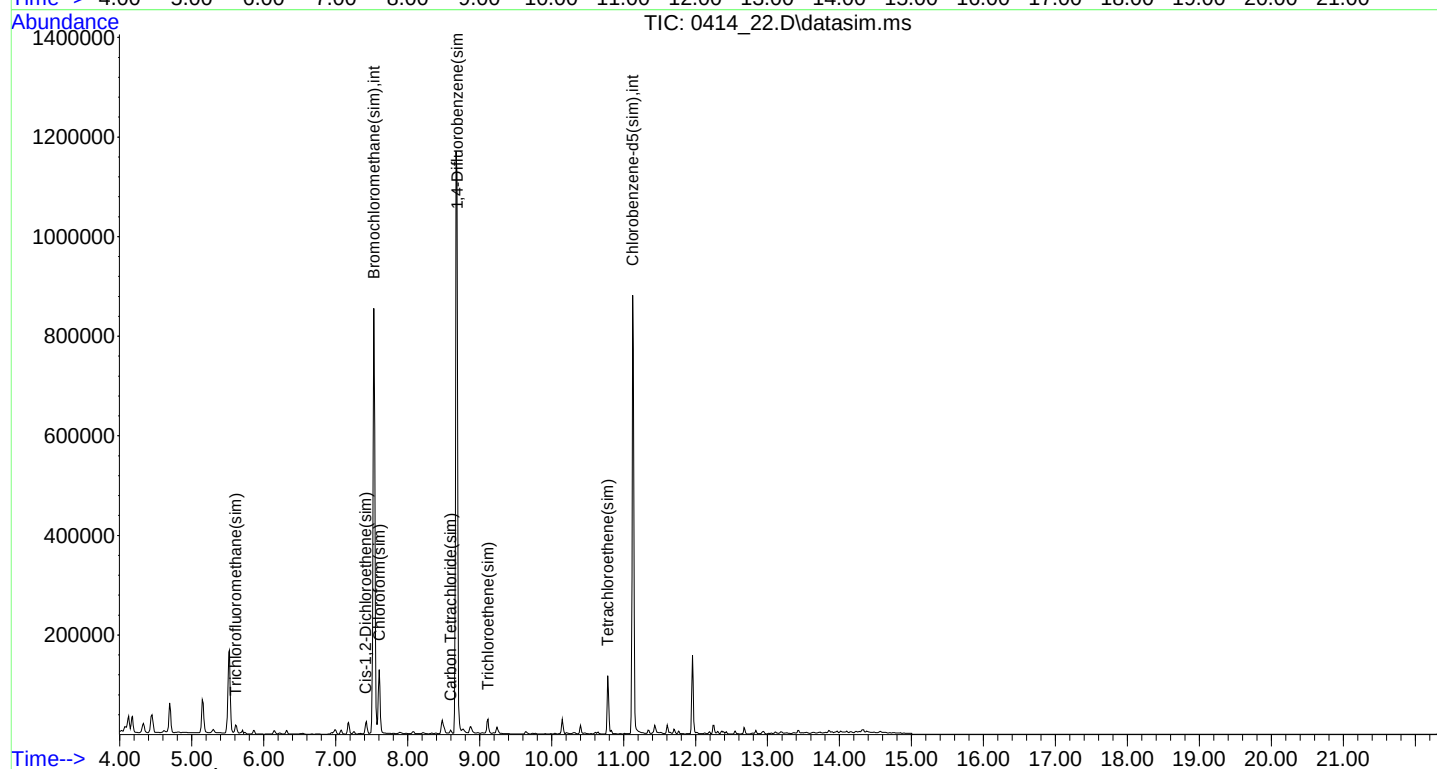
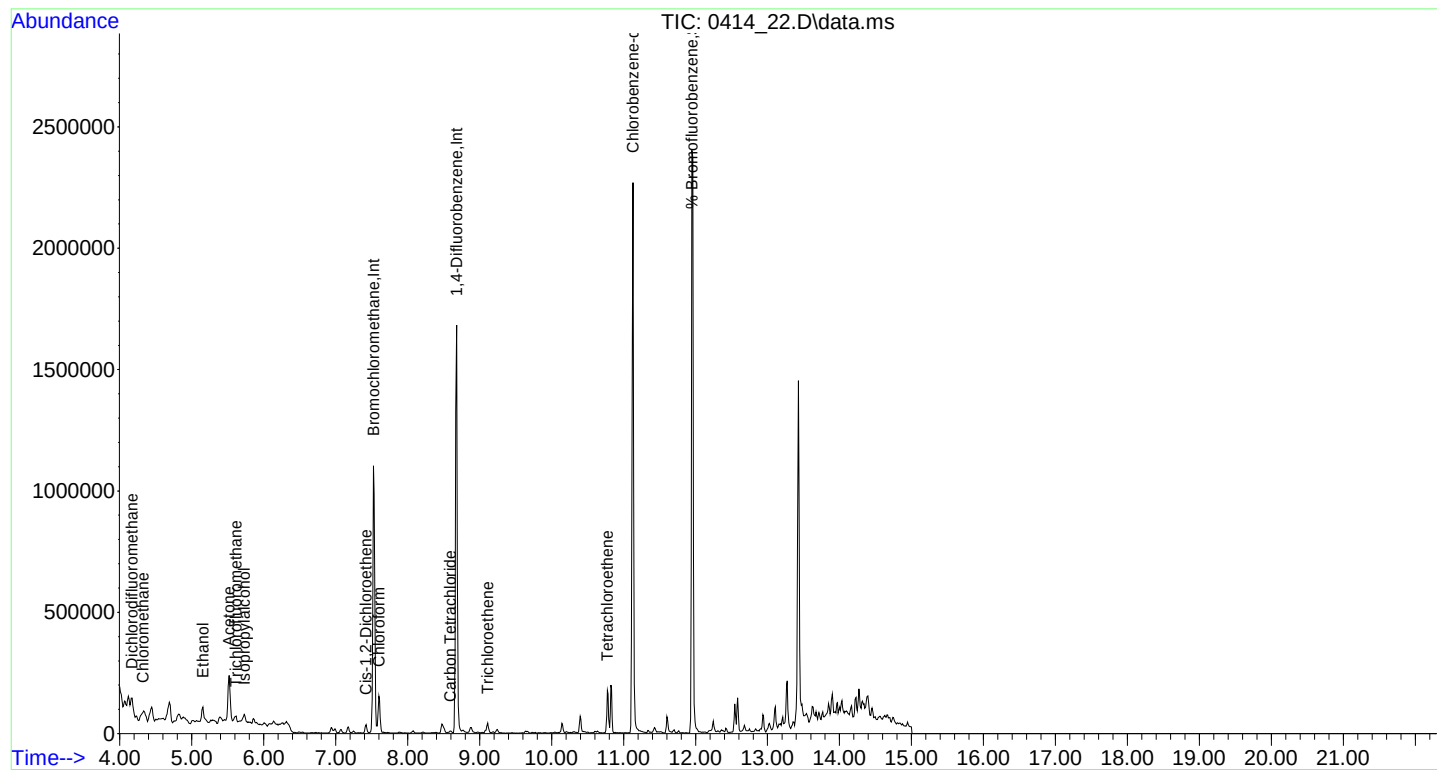
Quant Time: Apr 16 19:04:53 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

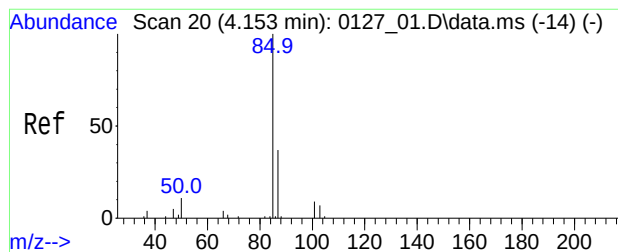
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	316955	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1174850	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	532550	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	347748	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1173503	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	532444	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	767436	10.553	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	105.50%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.171	85	32805	0.439	ppbv	97
4) Chloromethane	4.322	50	21384	0.534	ppbv	93
11) Ethanol	5.152	45	81336	5.624	ppbv#	82
12) Acetone	5.518	43	228406	3.137	ppbv	98
13) Trichlorofluoromethane	5.615	101	15430	0.193	ppbv	98
14) Isopropylalcohol	5.730	45	43061	0.660	ppbv#	99
27) Cis-1,2-Dichloroethene	7.421	61	20943	0.377	ppbv	92
29) Chloroform	7.598	83	96401	1.437	ppbv	97
35) Carbon Tetrachloride	8.589	117	4397	0.064	ppbv	96
40) Trichloroethene	9.110	130	7303	0.151	ppbv	91
53) Tetrachloroethene	10.774	166	47750	0.718	ppbv	94
85) Trichlorofluoromethane...	5.610	101	17166	0.208	ppbv#	96
89) Carbon Tetrachloride(sim)	8.595	117	4487	0.066	ppbv	98
94) Cis-1,2-Dichloroethene...	7.421	61	20943	0.331	ppbv	92
95) Chloroform(sim)	7.603	83	100374	1.379	ppbv	99
99) Trichloroethene(sim)	9.115	130	8566	0.144	ppbv	99
105) Tetrachloroethene(sim)	10.780	166	54755	0.629	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0414_22.D
Acq On : 14 Apr 2023 9:49 pm
Operator :
Client ID : AMBIENT
Lab ID : CN84185
ALS Vial : 19 Sample Multiplier: 1

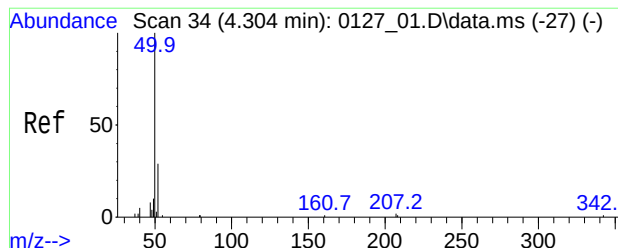
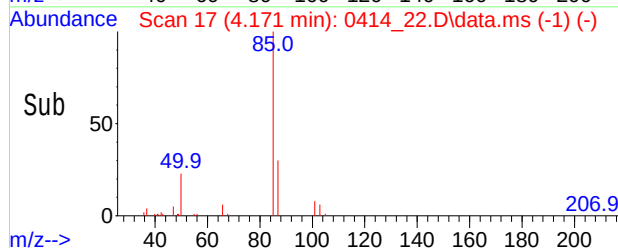
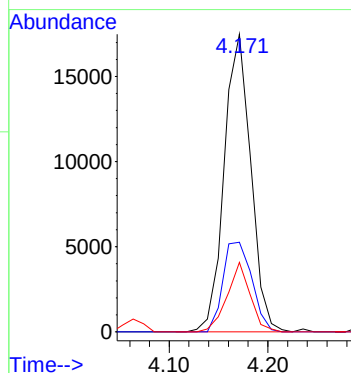
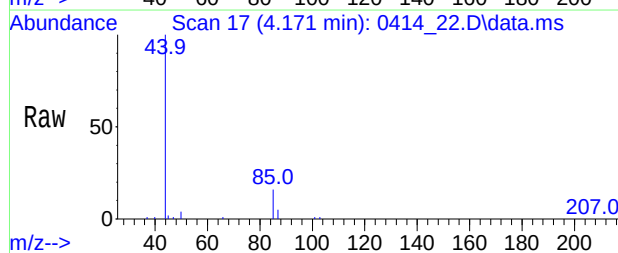
Quant Time: Apr 16 19:04:53 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration





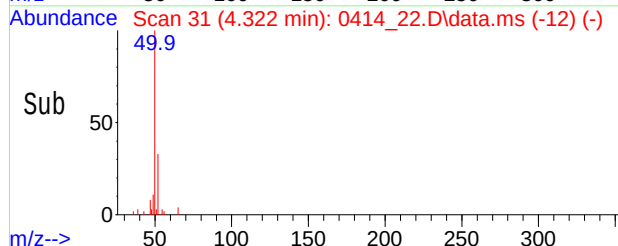
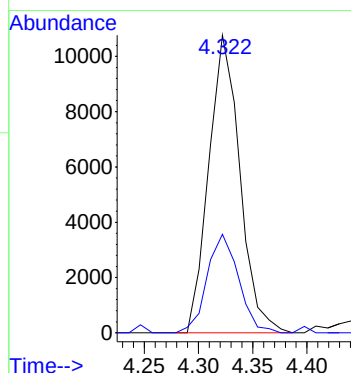
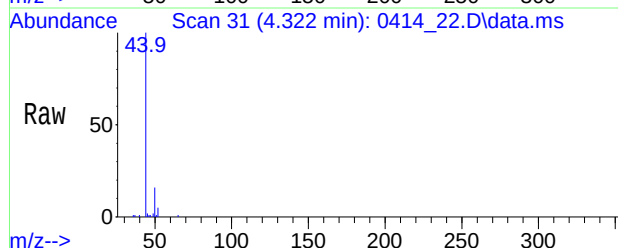
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.439 ppbv
 RT: 4.171 min Scan# 17
 Delta R.T. 0.000 min
 Lab File: 0414_22.D
 Acq: 14 Apr 2023 9:49 pm

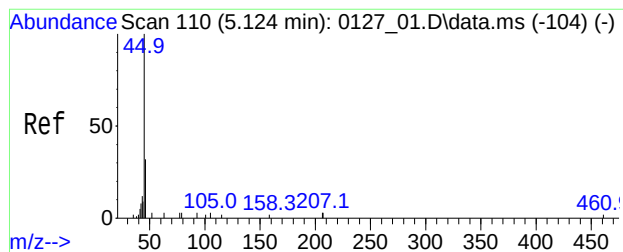
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.8	25.1	37.7
50	20.3	18.1	27.1



#4
 Chloromethane
 Conc: 8\$ 0.534 ppbv
 RT: 4.322 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: 0414_22.D
 Acq: 14 Apr 2023 9:49 pm

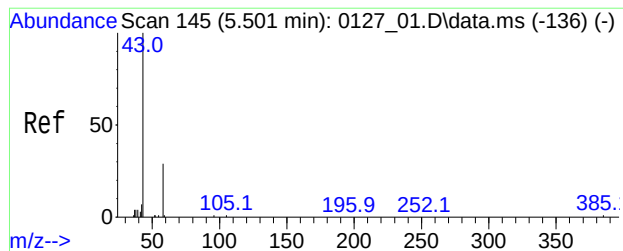
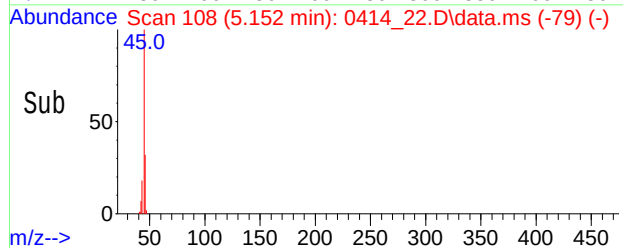
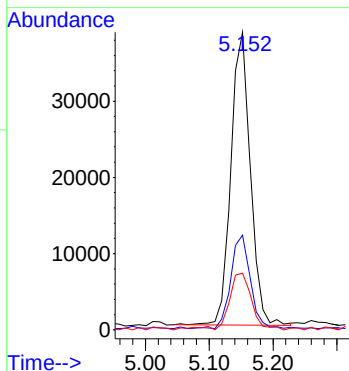
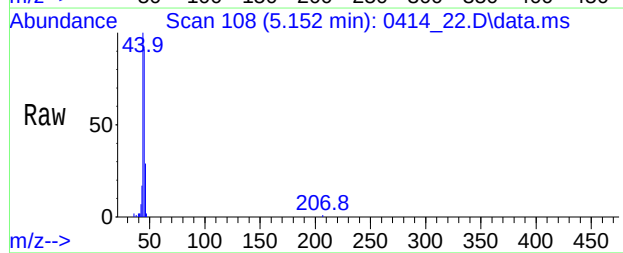
Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.6	18.1	58.1





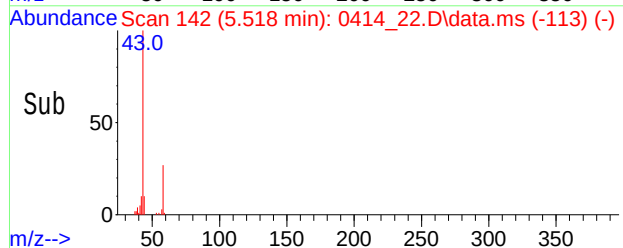
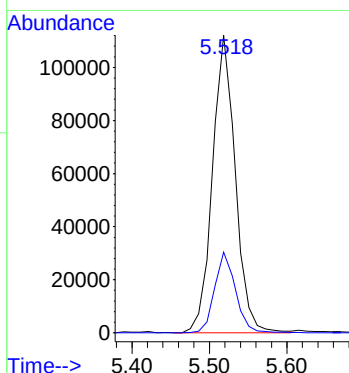
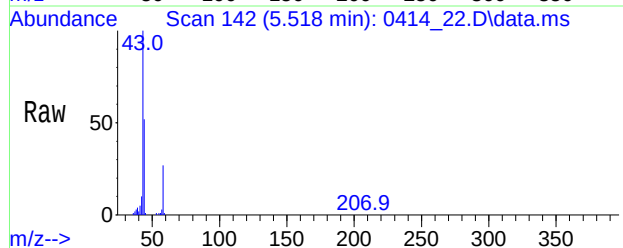
#11
Ethanol
Conc: 8\$ 5.624 ppbv
RT: 5.152 min Scan# 108
Delta R.T. 0.011 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm

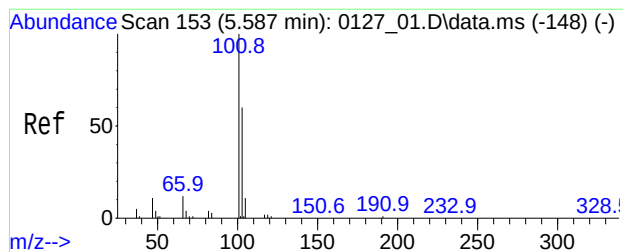
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.9	25.1	37.7
43	21.4	31.4	47.2#



#12
Acetone
Conc: 8\$ 3.137 ppbv
RT: 5.518 min Scan# 142
Delta R.T. 0.010 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm

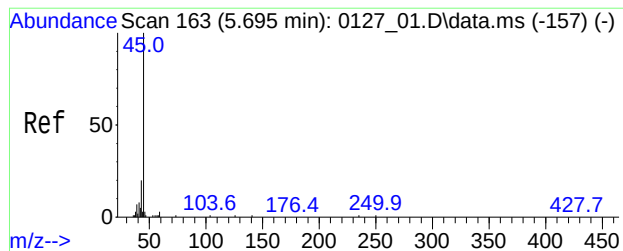
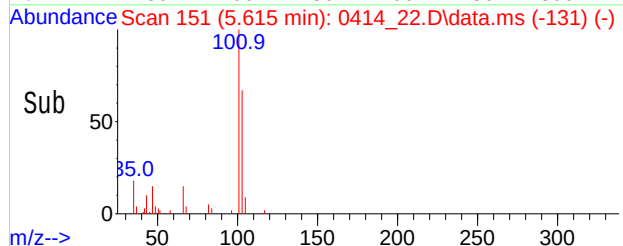
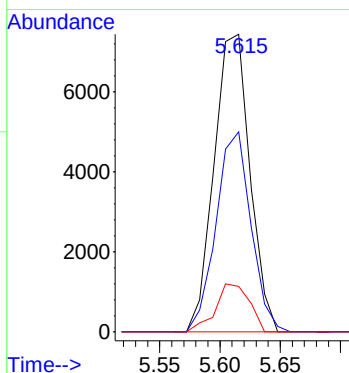
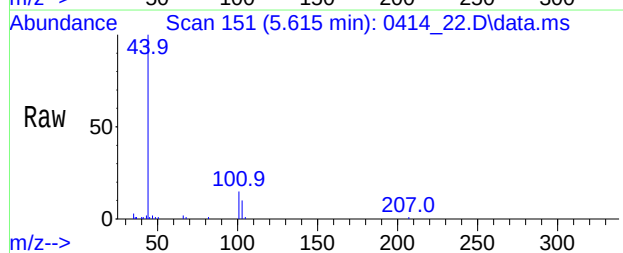
Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.9	20.6	30.8





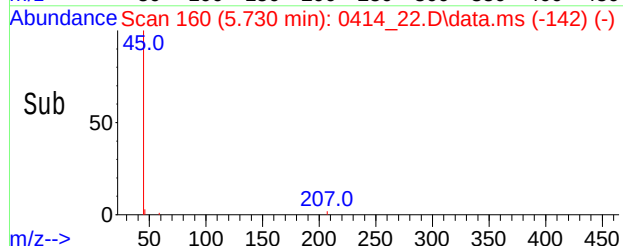
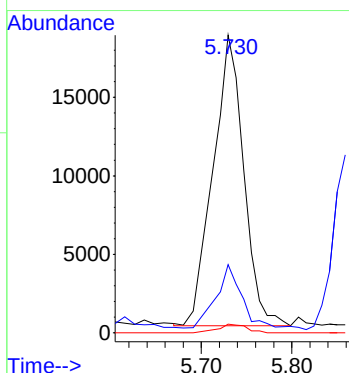
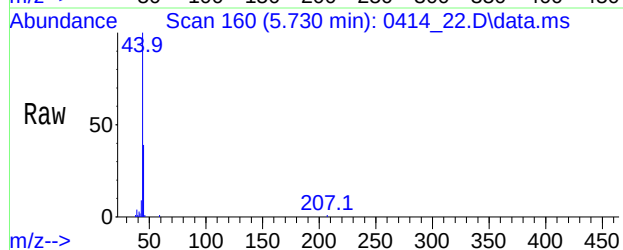
#13
 Trichlorofluoromethane
 Conc: 8\$ 0.193 ppbv
 RT: 5.615 min Scan# 151
 Delta R.T. 0.010 min
 Lab File: 0414_22.D
 Acq: 14 Apr 2023 9:49 pm

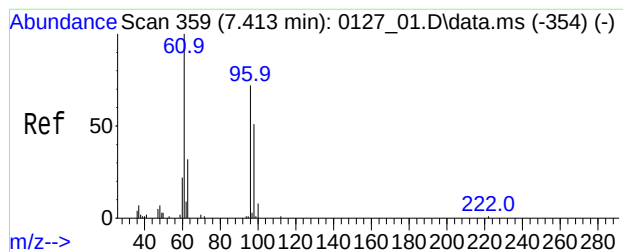
Tgt Ion	101	Resp:	15430
Ratio	Lower	Upper	
101	100		
103	65.4	53.8	80.8
66	15.2	12.9	19.3



#14
 Isopropylalcohol
 Conc: 8\$ 0.660 ppbv
 RT: 5.730 min Scan# 160
 Delta R.T. 0.009 min
 Lab File: 0414_22.D
 Acq: 14 Apr 2023 9:49 pm

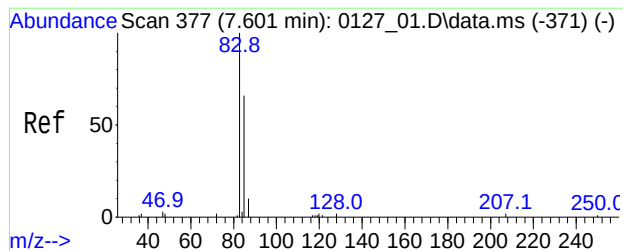
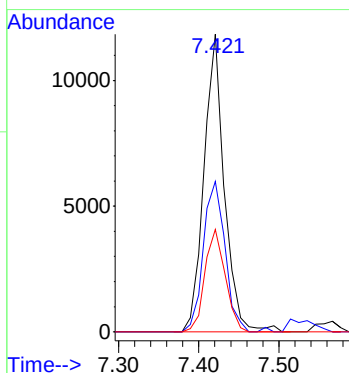
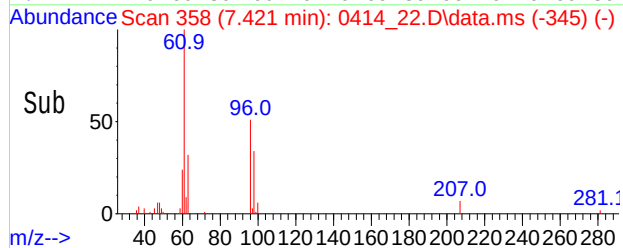
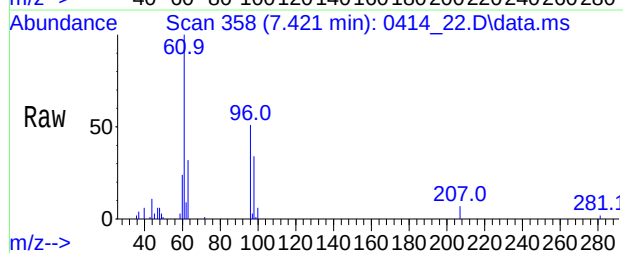
Tgt Ion	45	Resp:	43061
Ratio	Lower	Upper	
45	100		
43	20.0	15.9	23.9
59	3.2	3.6	5.4#





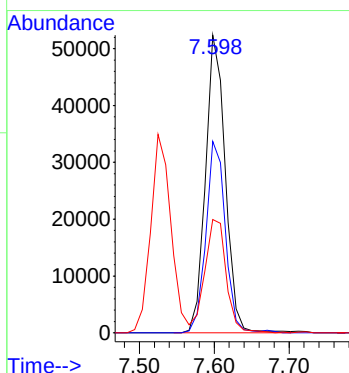
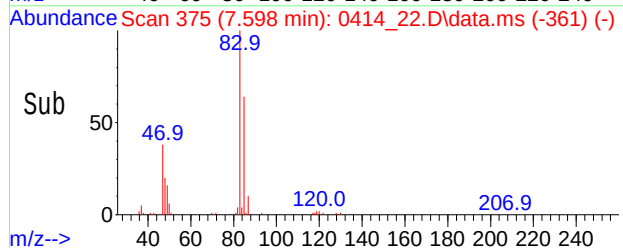
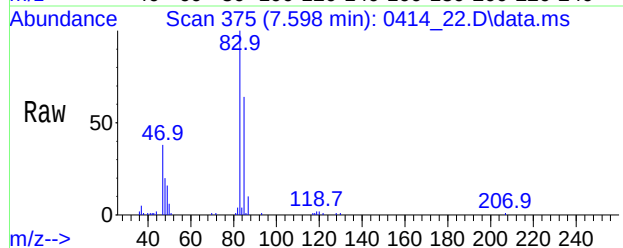
#27
Cis-1,2-Dichloroethene
Conc: 8\$ 0.377 ppbv
RT: 7.421 min Scan# 358
Delta R.T. -0.000 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm

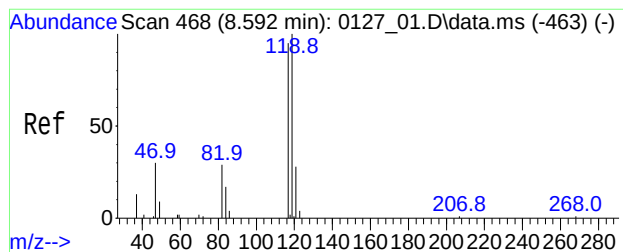
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	20943		
96	53.6	47.8	71.8	
98	34.4	30.7	46.1	



#29
Chloroform
Conc: 8\$ 1.437 ppbv
RT: 7.598 min Scan# 375
Delta R.T. -0.000 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm

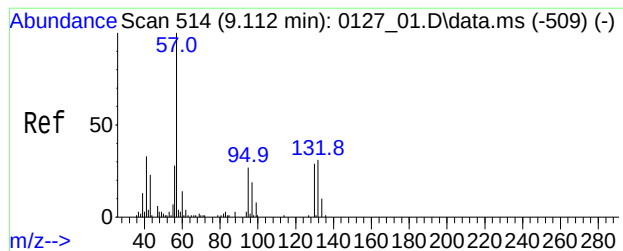
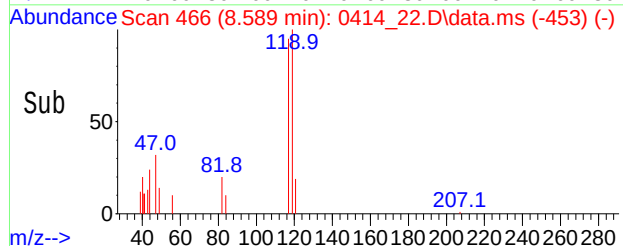
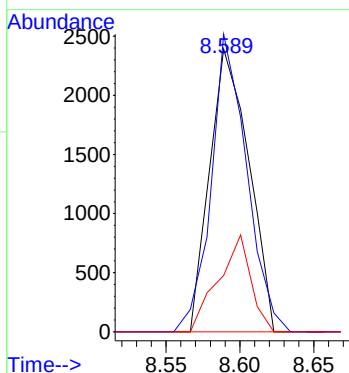
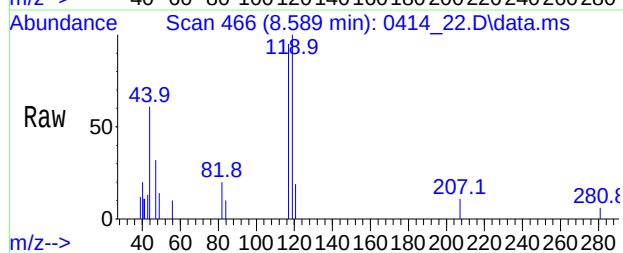
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	96401		
85	63.2	43.0	83.0	
47	41.2	16.5	56.5	





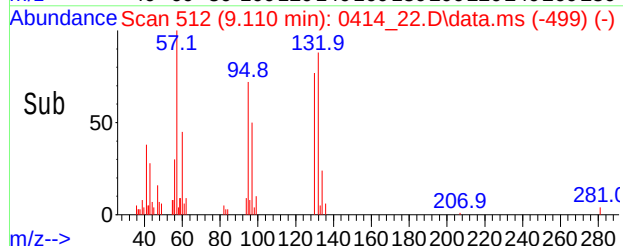
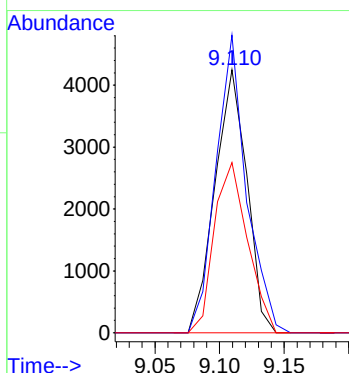
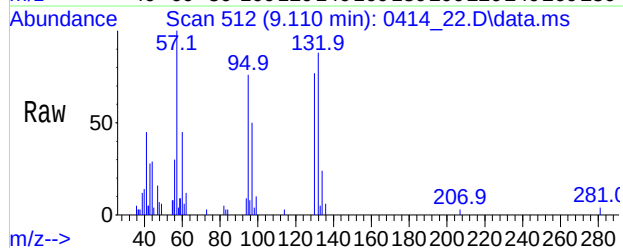
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.589 min Scan# 466
Delta R.T. 0.000 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm

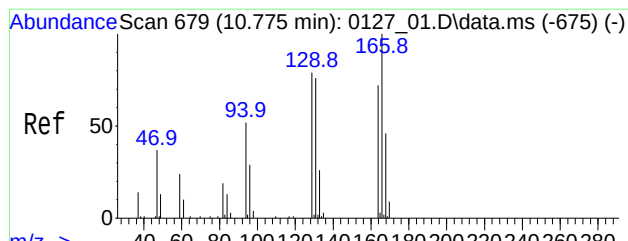
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4397		
119	95.1	77.5	117.5	
121	28.5	12.4	52.4	



#40
Trichloroethene
Conc: 8\$ 0.151 ppbv
RT: 9.110 min Scan# 512
Delta R.T. -0.000 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm

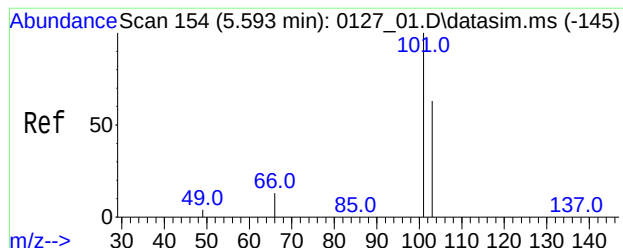
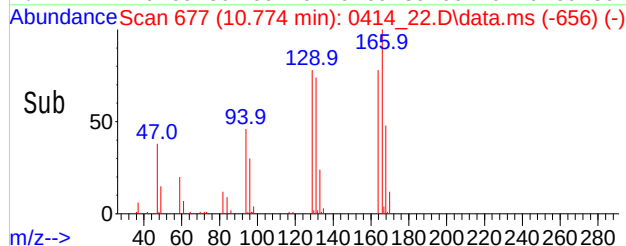
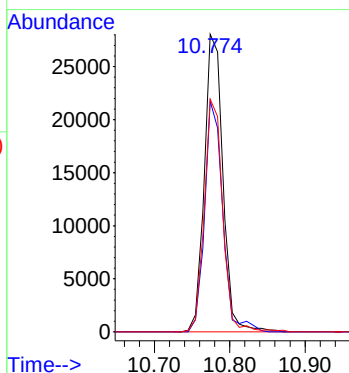
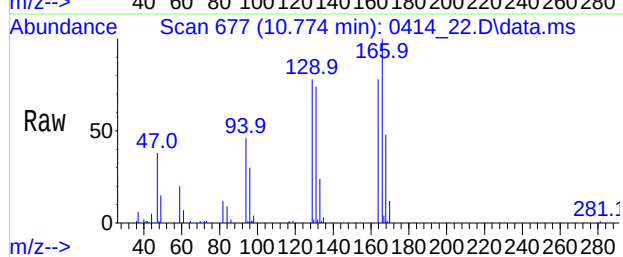
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	7303		
132	108.4	77.3	115.9	
97	67.7	50.8	76.2	





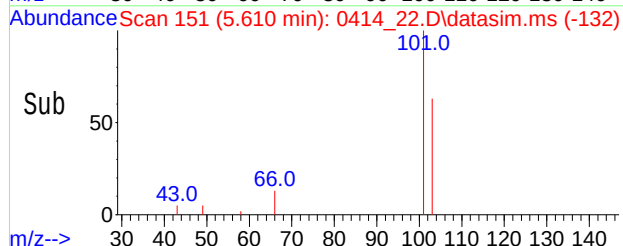
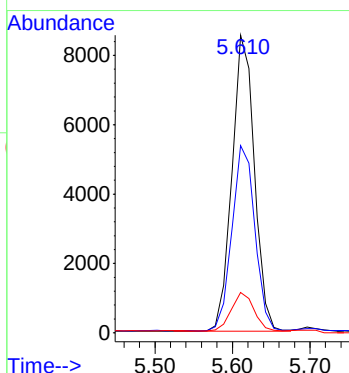
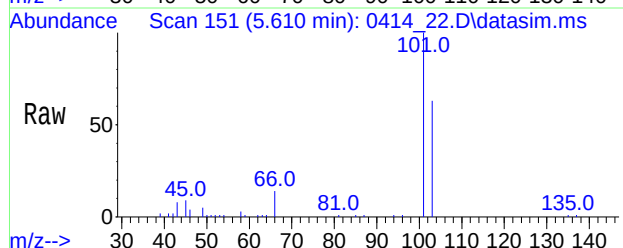
#53
Tetrachloroethene
Conc: 8\$ 0.718 ppbv
RT: 10.774 min Scan# 677
Delta R.T. -0.000 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm

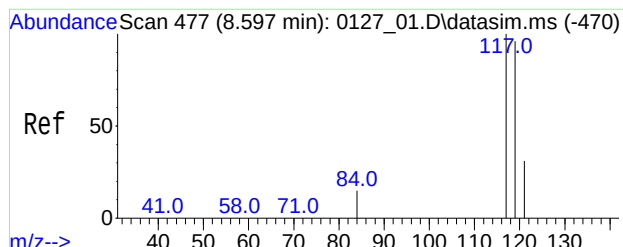
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	47750		
164	75.2	65.8	98.6	
129	77.5	64.7	97.1	



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.208 ppbv
RT: 5.610 min Scan# 151
Delta R.T. 0.000 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm

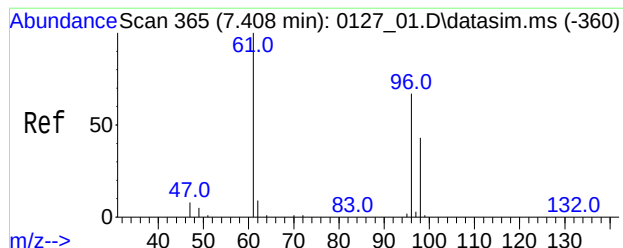
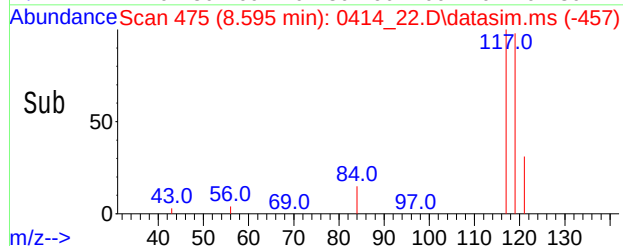
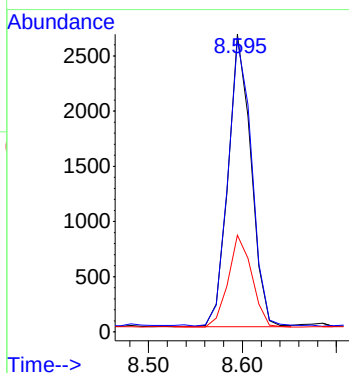
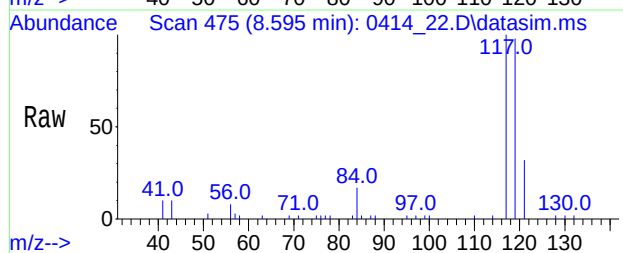
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	17166		
103	63.9	52.5	78.7	
66	13.5	18.3	18.3#	





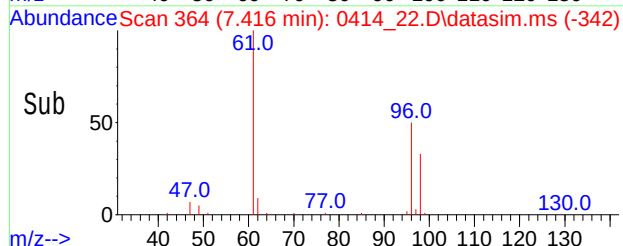
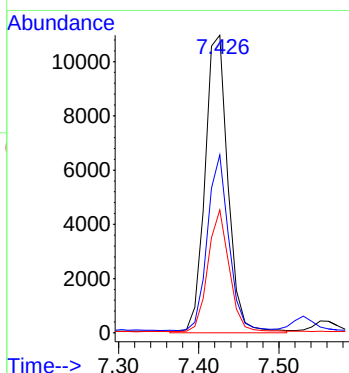
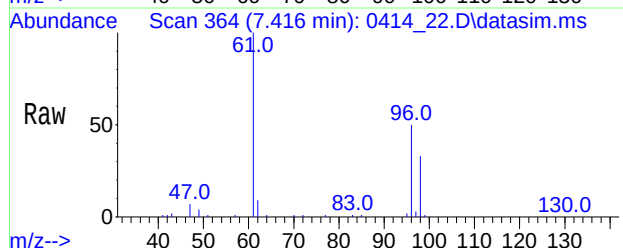
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.066 ppbv
RT: 8.595 min Scan# 475
Delta R.T. -0.000 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm

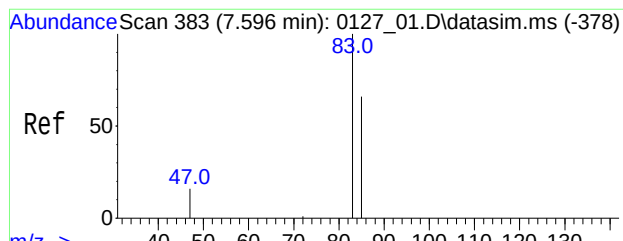
Tgt Ion: 117 Resp: 4487
Ion Ratio Lower Upper
117 100
119 101.5 79.2 118.8
121 32.4 25.5 38.3



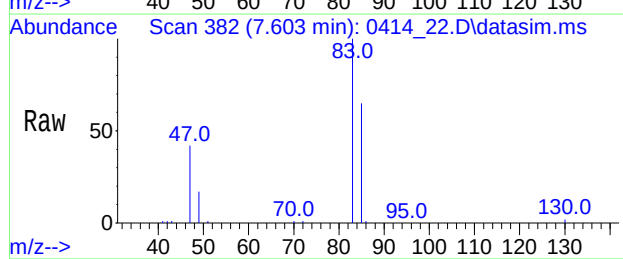
#94
Cis-1,2-Dichloroethene(sim)
Conc: 8\$ 0.331 ppbv
RT: 7.421 min Scan# 364
Delta R.T. -0.000 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm

Tgt Ion: 61 Resp: 20943
Ion Ratio Lower Upper
61 100
96 53.6 47.8 71.8
98 34.4 30.7 46.1

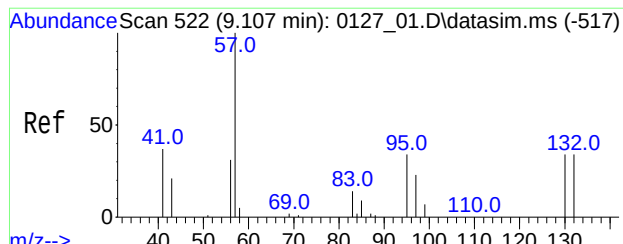
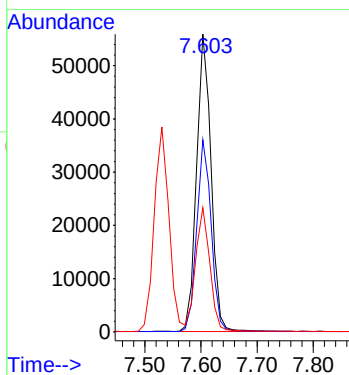
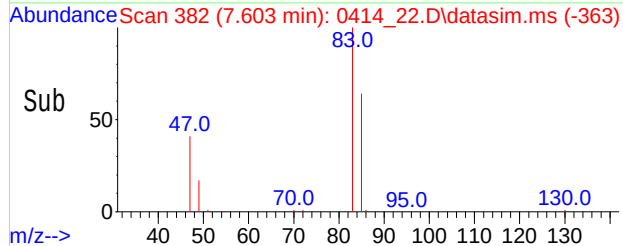




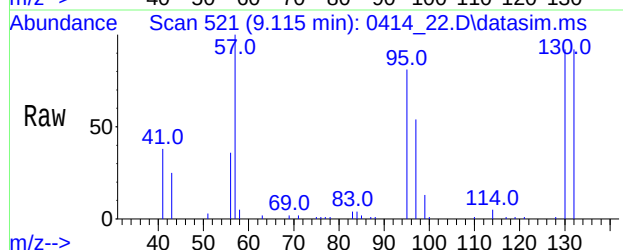
#95
Chloroform(sim)
Conc: 8\$ 1.379 ppbv
RT: 7.603 min Scan# 382
Delta R.T. 0.000 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm



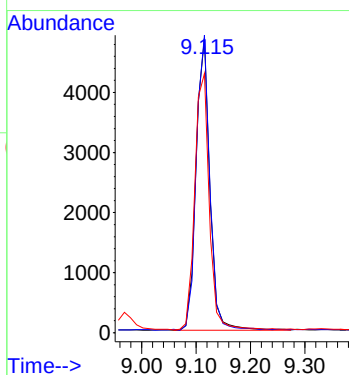
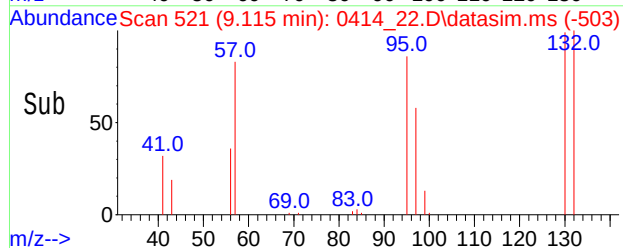
Tgt Ion: 83 Resp: 100374
Ion Ratio Lower Upper
83 100
85 64.5 51.5 77.3
47 41.0 31.4 47.2

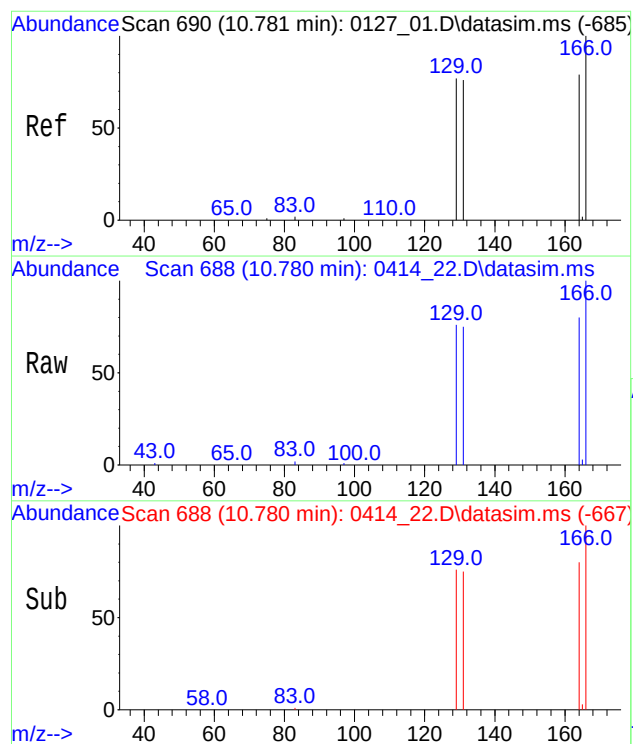


#99
Trichloroethene(sim)
Conc: 8\$ 0.144 ppbv
RT: 9.115 min Scan# 521
Delta R.T. 0.000 min
Lab File: 0414_22.D
Acq: 14 Apr 2023 9:49 pm



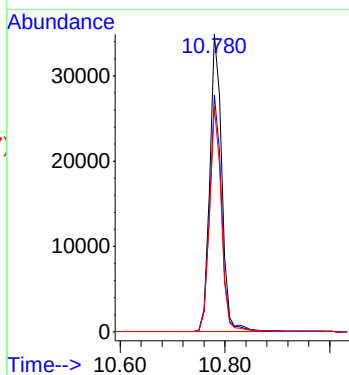
Tgt Ion: 130 Resp: 8566
Ion Ratio Lower Upper
130 100
132 99.7 79.0 118.4
95 92.0 73.0 109.6





#105
 Tetrachloroethene(sim)
 Conc: 8\$ 0.629 ppbv
 RT: 10.780 min Scan# 688
 Delta R.T. -0.000 min
 Lab File: 0414_22.D
 Acq: 14 Apr 2023 9:49 pm

Tgt Ion	166	Resp	54755
Ion Ratio	Lower	Upper	
166	100		
164	79.5	58.6	98.6
129	74.4	53.3	93.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SV-5

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CN84186
Canister:	644	Lab File ID:	0417_20.D
Instrument:	CHEM20	Column:	RTX-1 60M
		Date Received:	04/14/23
Purge Volume	200 (cc)	Date Analyzed:	04/17/23
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	5.18		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.456		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.915		0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	4.94	S	0.531	0.531	r
67-64-1	Acetone	22.0	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.275		0.178	0.178	r
67-63-0	Isopropylalcohol	1.08	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	2.16		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	0.239		0.051	0.051	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-55-6	1,1,1-Trichloroethane	6.75		0.183	0.183	r
71-43-2	Benzene	0.367		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
79-01-6	Trichloroethene	1.01		0.037	0.037	r
142-82-5	Heptane	0.678		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	2.81		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	1.19		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.296		0.244	0.244	r
127-18-4	Tetrachloroethene	28.5		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.263		0.230	0.230	r
179601-23-1	m,p-Xylene	0.660		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.256		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84186</u>
Canister:	<u>644</u>	Lab File ID:	<u>0417_20.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/17/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.110		0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_20.D
 Acq On : 17 Apr 2023 7:39 pm
 Operator :
 Client ID : SV-5
 Lab ID : CN84186
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 18 12:35:07 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.535	130	303625	10.000	ng	0.01
37) 1,4-Difluorobenzene	8.680	114	1117676	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	499695	10.000	ng	0.00
81) Bromochloromethane(sim)	7.541	130	337003	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.680	114	1117676	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	499801	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	723188	10.598	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	106.00%

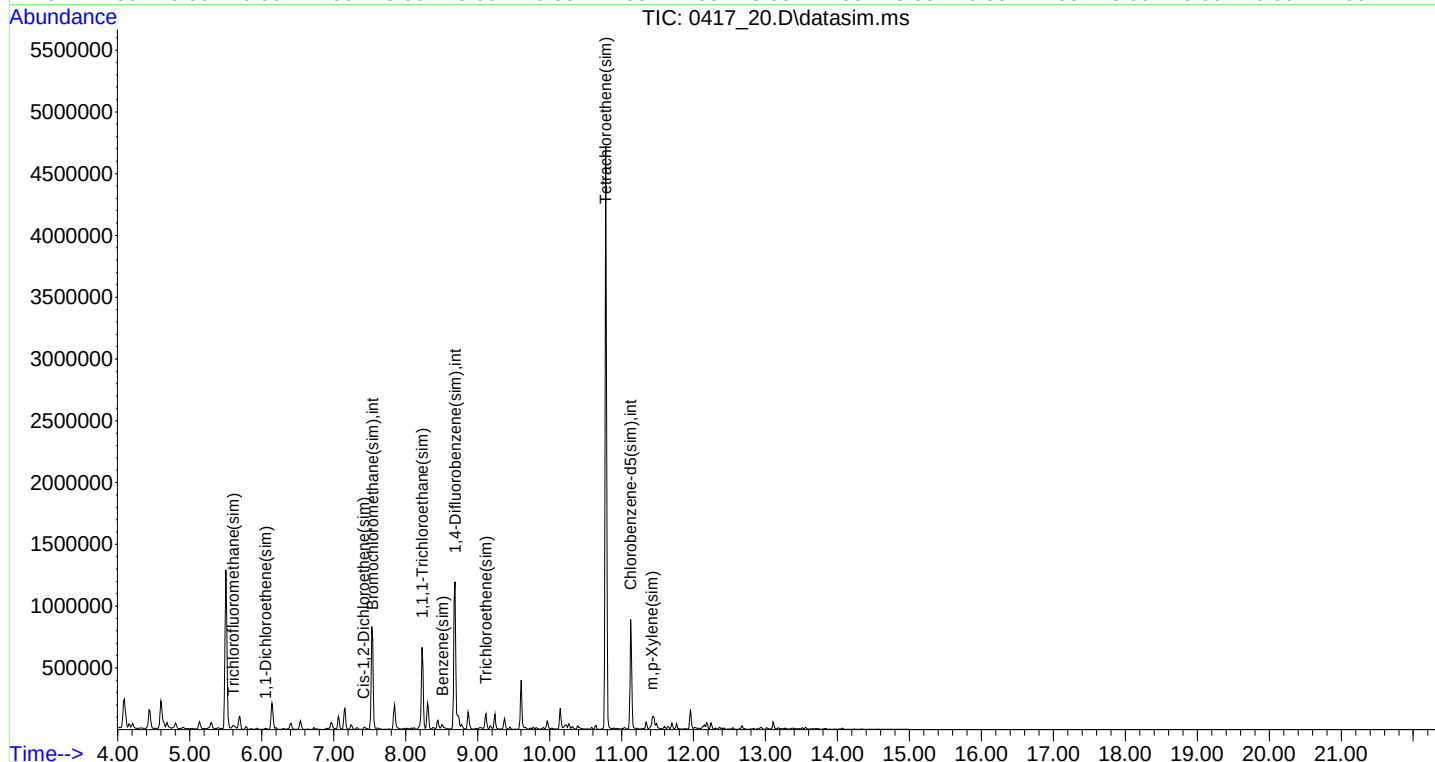
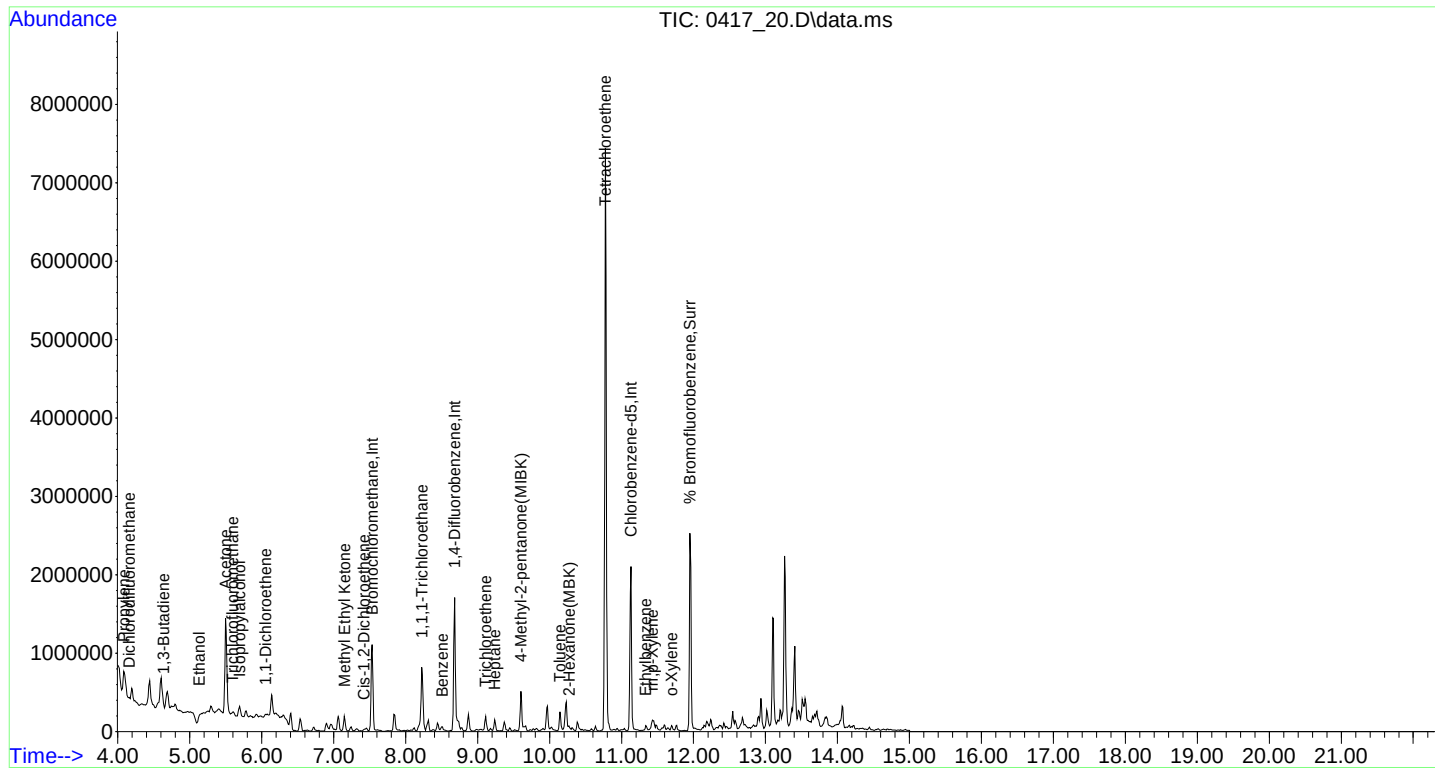
Target Compounds						Qvalue
2) Propylene	4.085	41	192123	5.181	ppbv#	89
3) Dichlorodifluoromethane	4.161	85	32674	0.456	ppbv	99
7) 1,3-Butadiene	4.635	54	28280	0.915	ppbv#	48
11) Ethanol	5.131	45	68496	4.944	ppbv#	82
12) Acetone	5.497	43	1535238	22.008	ppbv	97
13) Trichlorofluoromethane	5.594	101	21116	0.275	ppbv	93
14) Isopropylalcohol	5.691	45	67279	1.077	ppbv	96
16) 1,1-Dichloroethene	6.057	61	6935	0.124	ppbv#	93
26) Methyl Ethyl Ketone	7.149	43	229441	2.154	ppbv	97
27) Cis-1,2-Dichloroethene	7.421	61	12715	0.239	ppbv	99
33) 1,1,1-Trichloroethane	8.223	97	511307	6.749	ppbv	89
34) Benzene	8.510	78	33218	0.367	ppbv	92
40) Trichloroethene	9.110	130	46447	1.008	ppbv	97
44) Heptane	9.234	43	65782	0.678	ppbv	90
46) 4-Methyl-2-pentanone(M...)	9.600	43	357073	2.812	ppbv	96
49) Toluene	10.143	91	140783	1.193	ppbv	98
51) 2-Hexanone(MBK)	10.269	43	34369m	0.296	ppbv#	84
53) Tetrachloroethene	10.774	166	1802592	28.495	ppbv	97
57) Ethylbenzene	11.335	91	37403	0.263	ppbv	97
58) m,p-Xylene	11.427	91	70070	0.660	ppbv	98
62) o-Xylene	11.694	91	29191	0.256	ppbv	98
85) Trichlorofluoromethane...	5.600	101	22236	0.278	ppbv#	97
87) 1,1,1-Trichloroethane(...)	8.229	97	480478	6.458	ppbv#	98
88) Benzene(sim)	8.510	78	33218	0.325	ppbv	92
90) 1,1-Dichloroethene(sim)	6.057	61	6935	0.110	ppbv#	93
94) Cis-1,2-Dichloroethene...	7.421	61	12715	0.208	ppbv	99
99) Trichloroethene(sim)	9.115	130	52739	0.932	ppbv	99
105) Tetrachloroethene(sim)	10.780	166	2102218	25.349	ppbv	100
108) m,p-Xylene(sim)	11.427	91	72269	0.604	ppbv	96

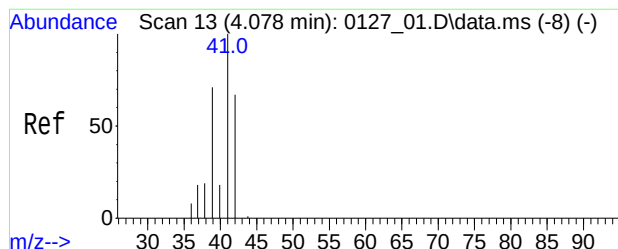
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_20.D
 Acq On : 17 Apr 2023 7:39 pm
 Operator :
 Client ID : SV-5
 Lab ID : CN84186
 ALS Vial : 12 Sample Multiplier: 1

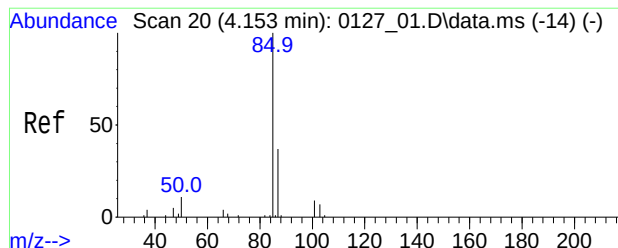
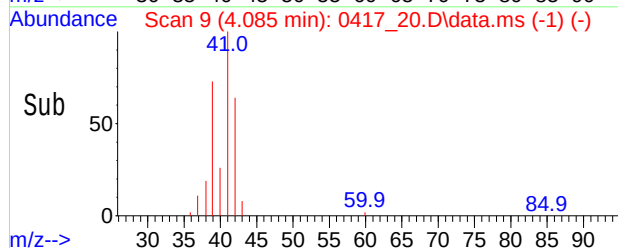
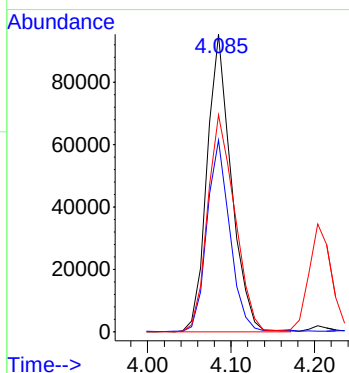
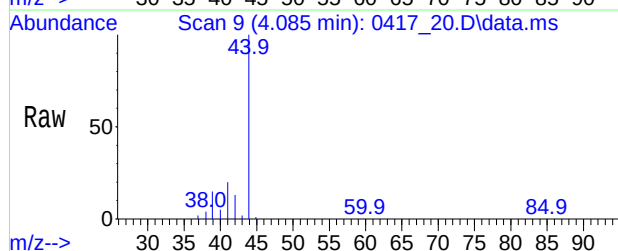
Quant Time: Apr 18 12:35:07 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration





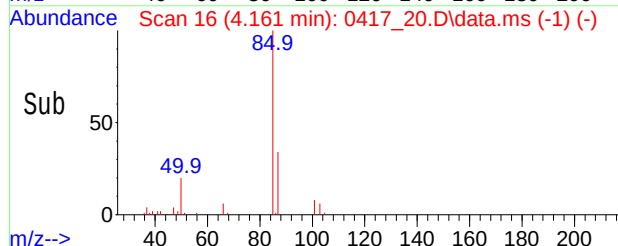
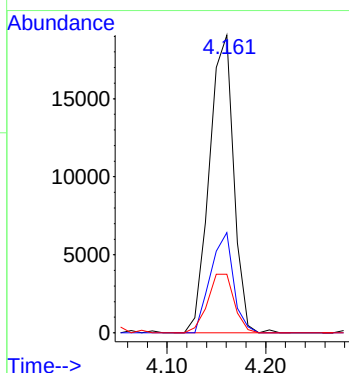
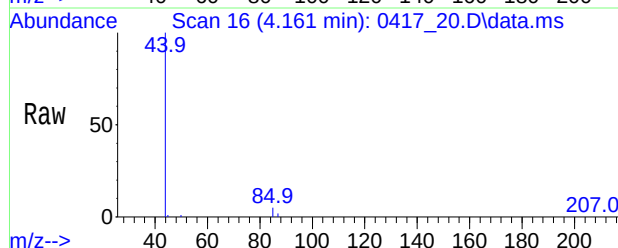
#2
Propylene
Conc: 8\$ 5.181 ppbv
RT: 4.085 min Scan# 9
Delta R.T. -0.022 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

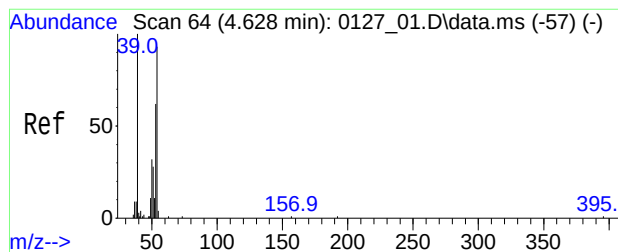
Tgt Ion	Ratio	Lower	Upper
41	100		
42	60.2	48.3	72.5
39	81.7	52.2	78.2#



#3
Dichlorodifluoromethane
Conc: 8\$ 0.456 ppbv
RT: 4.161 min Scan# 16
Delta R.T. -0.010 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

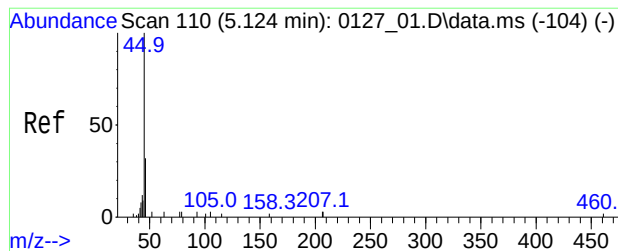
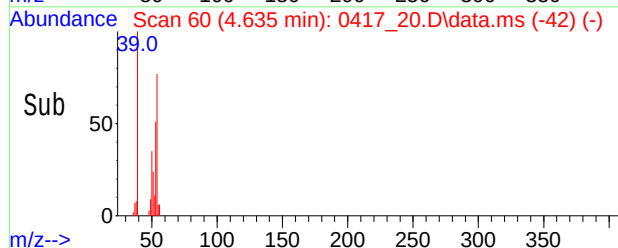
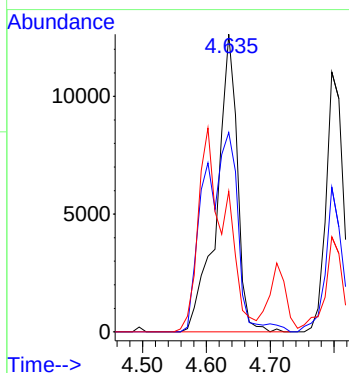
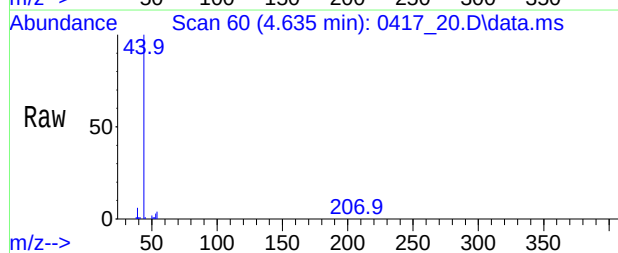
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.1	37.7
50	21.5	18.1	27.1





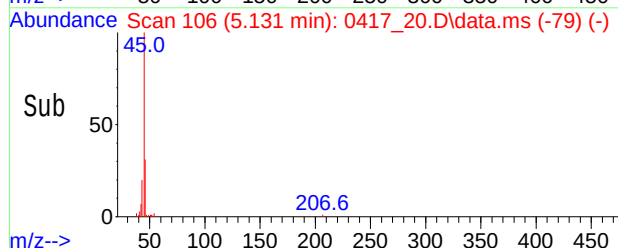
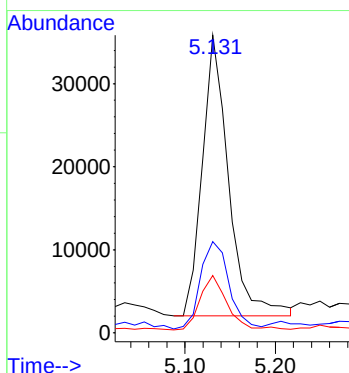
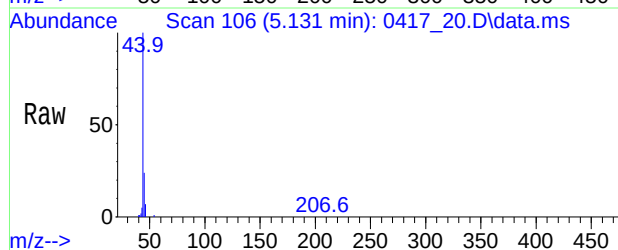
#7
1,3-Butadiene
Conc: 8\$ 0.915 ppbv
RT: 4.635 min Scan# 60
Delta R.T. -0.010 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

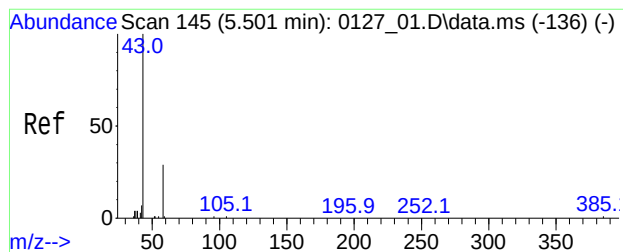
Tgt Ion	Ratio	Lower	Upper
54	100		
53	108.8	59.2	88.8#
50	89.6	35.7	53.5#



#11
Ethanol
Conc: 8\$ 4.944 ppbv
RT: 5.131 min Scan# 106
Delta R.T. -0.010 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

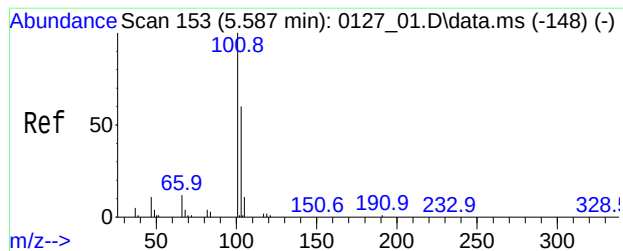
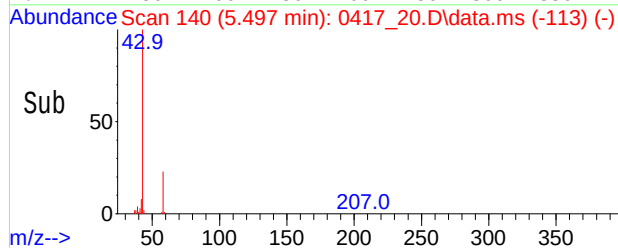
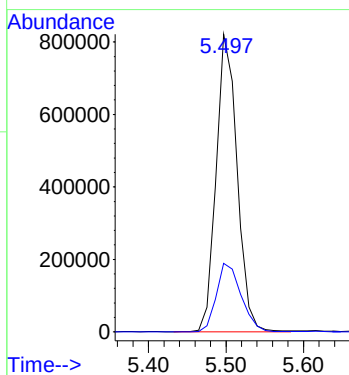
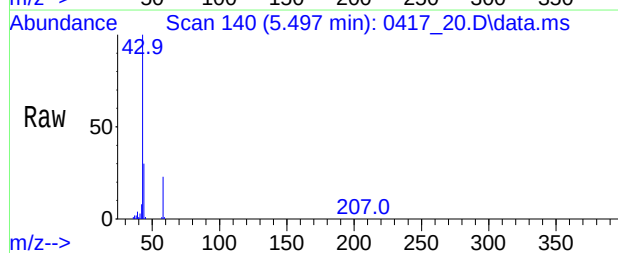
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.3	25.1	37.7
43	21.4	31.4	47.2#





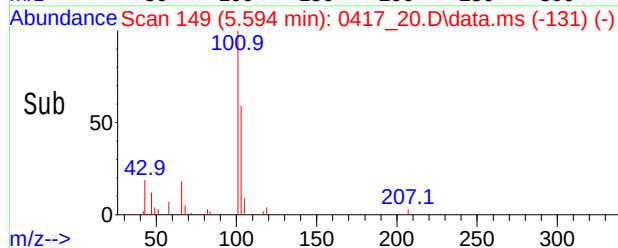
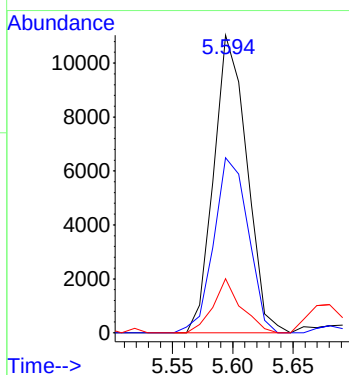
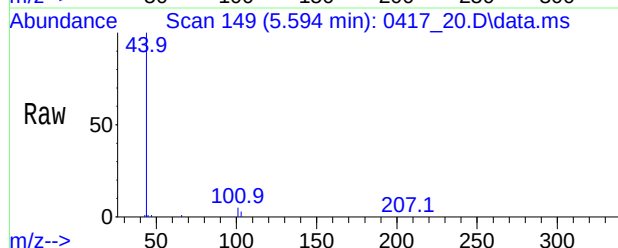
#12
Acetone
Conc: 8\$ 22.008 ppbv
RT: 5.497 min Scan# 140
Delta R.T. -0.011 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

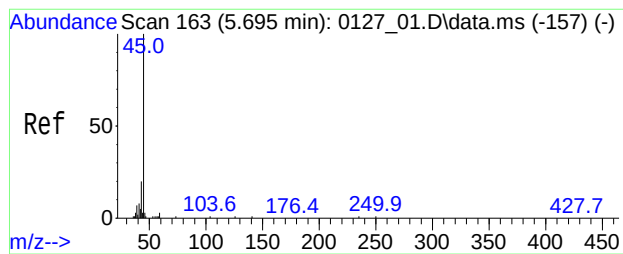
Tgt Ion: 43 Resp: 1535238
Ion Ratio Lower Upper
43 100
58 27.1 20.6 30.8



#13
Trichlorofluoromethane
Conc: 8\$ 0.275 ppbv
RT: 5.594 min Scan# 149
Delta R.T. -0.011 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

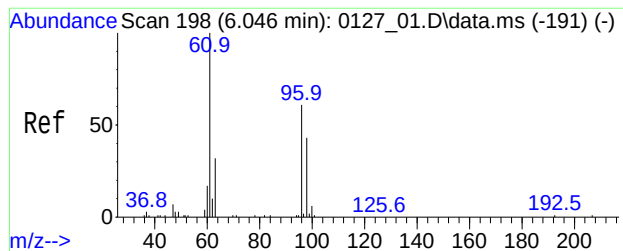
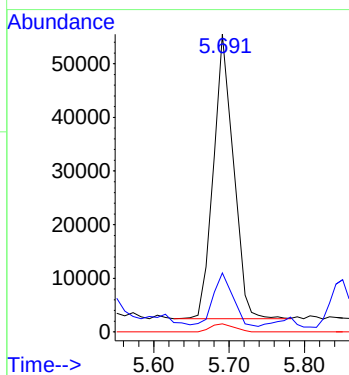
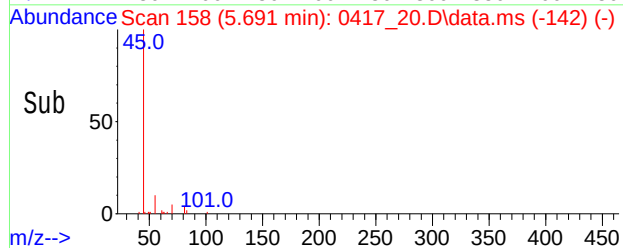
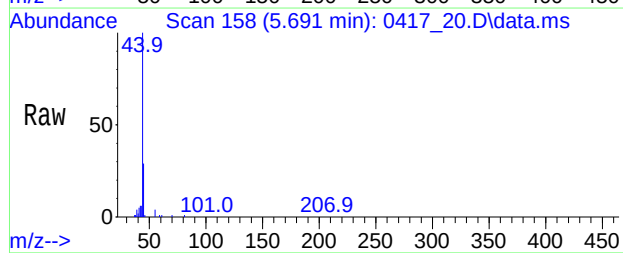
Tgt Ion: 101 Resp: 21116
Ion Ratio Lower Upper
101 100
103 61.1 53.8 80.8
66 15.5 12.9 19.3





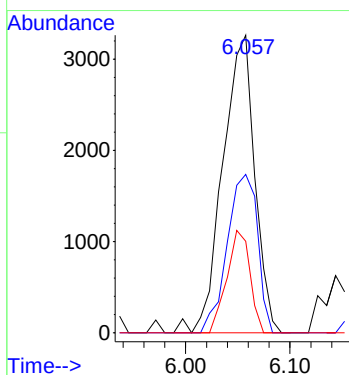
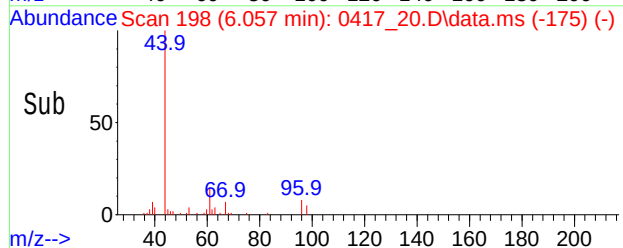
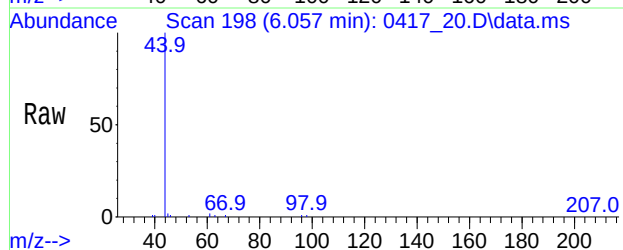
#14
Isopropylalcohol
Conc: 8\$ 1.077 ppbv
RT: 5.691 min Scan# 158
Delta R.T. -0.030 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

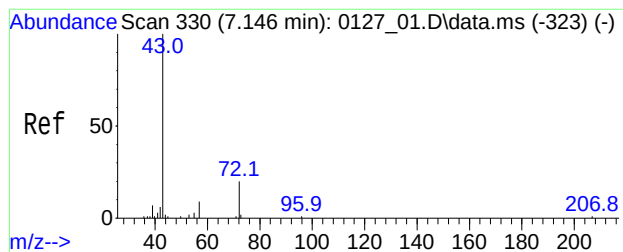
Tgt Ion:	45	Resp:	67279
Ion Ratio	Lower	Upper	
45	100		
43	22.0	15.9	23.9
59	3.9	3.6	5.4



#16
1,1-Dichloroethene
Conc: 8\$ Below Cal
RT: 6.057 min Scan# 198
Delta R.T. 0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

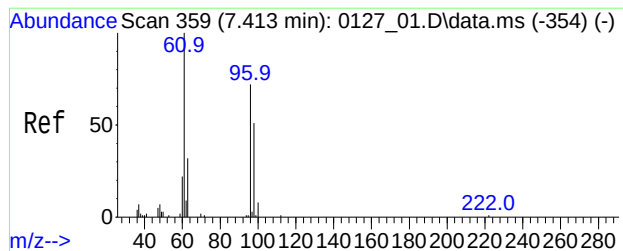
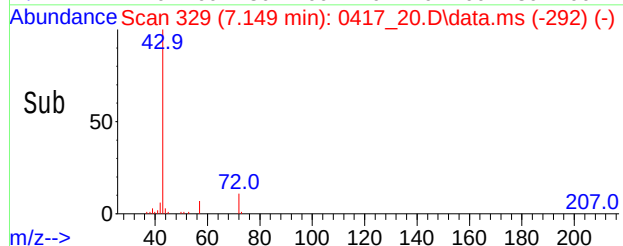
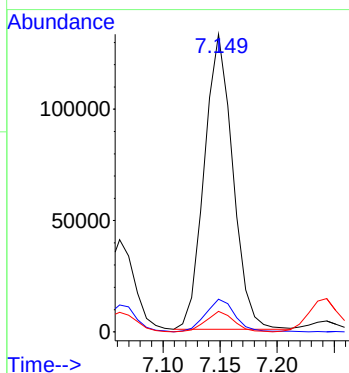
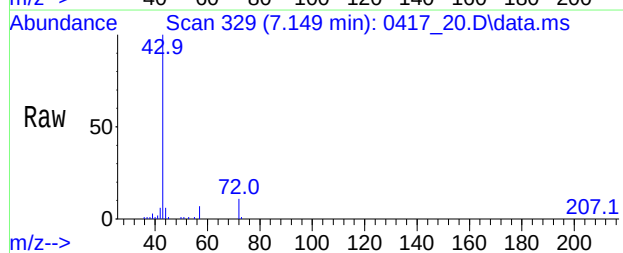
Tgt Ion:	61	Resp:	6935
Ion Ratio	Lower	Upper	
61	100		
96	50.5	39.7	59.5
98	24.8	26.4	39.6#





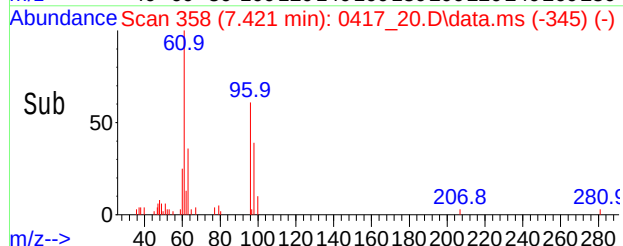
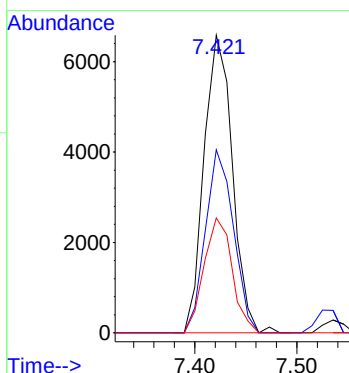
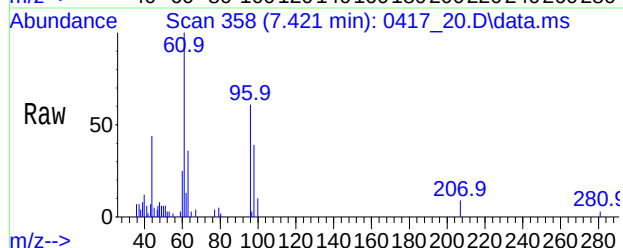
#26
Methyl Ethyl Ketone
Conc: 8\$ 2.154 ppbv
RT: 7.149 min Scan# 329
Delta R.T. -0.007 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

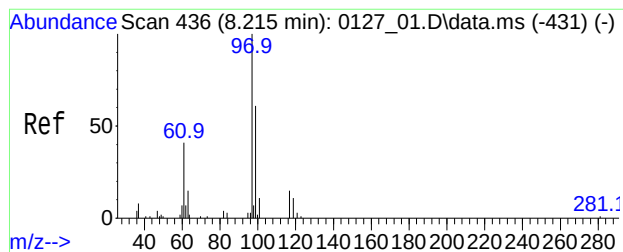
Tgt Ion: 43 Resp: 229441
Ion Ratio Lower Upper
43 100
72 11.6 10.2 15.4
57 6.9 6.1 9.1



#27
Cis-1,2-Dichloroethene
Conc: 8\$ 0.239 ppbv
RT: 7.421 min Scan# 358
Delta R.T. -0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

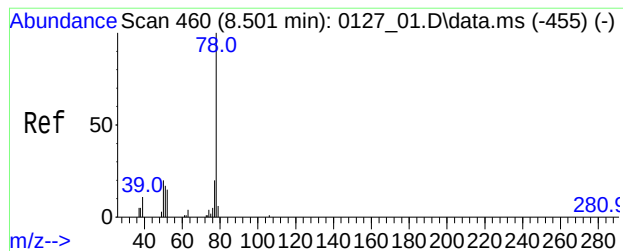
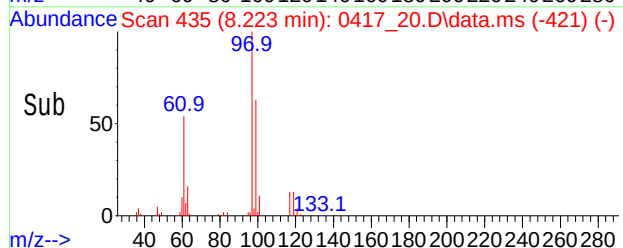
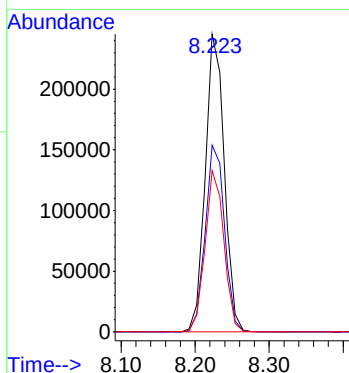
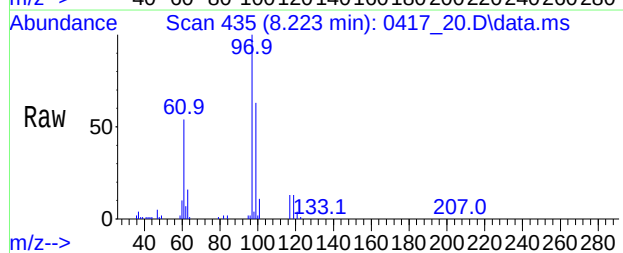
Tgt Ion: 61 Resp: 12715
Ion Ratio Lower Upper
61 100
96 60.7 47.8 71.8
98 38.3 30.7 46.1





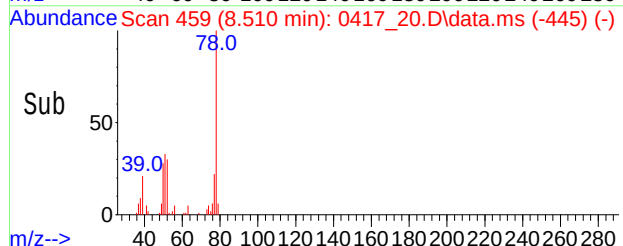
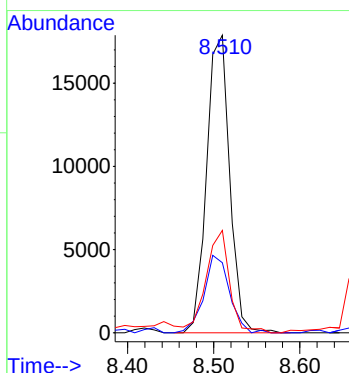
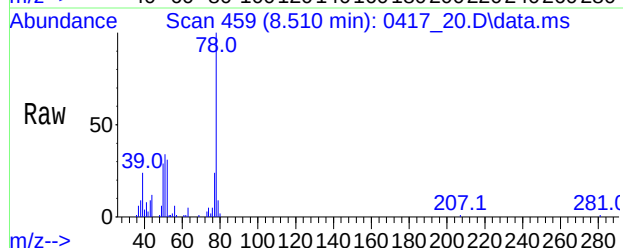
#33
1,1,1-Trichloroethane
Conc: 8\$ 6.749 ppbv
RT: 8.223 min Scan# 435
Delta R.T. -0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

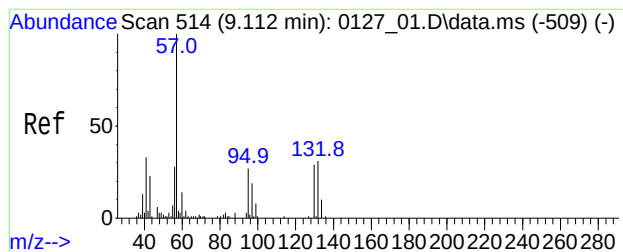
Tgt Ion:	97	Resp:	511307
Ion Ratio	Lower	Upper	
97	100		
99	64.2	46.2	69.4
61	53.1	35.5	53.3



#34
Benzene
Conc: 8\$ 0.367 ppbv
RT: 8.510 min Scan# 459
Delta R.T. 0.011 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

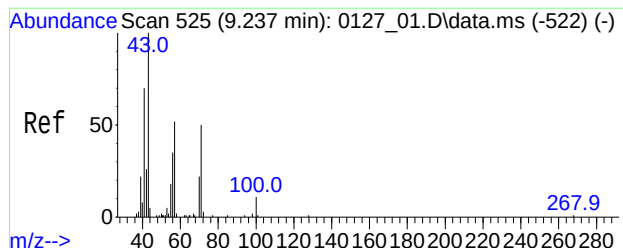
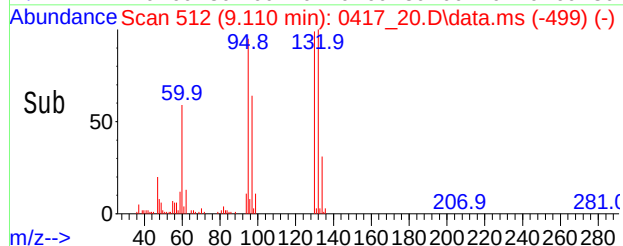
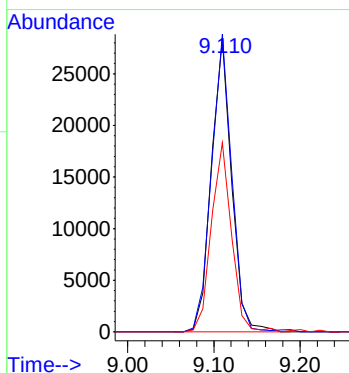
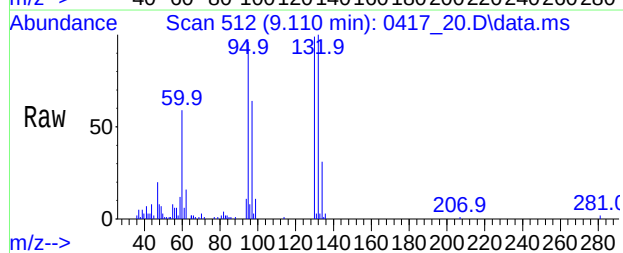
Tgt Ion:	78	Resp:	33218
Ion Ratio	Lower	Upper	
78	100		
77	28.9	20.0	30.0
51	35.0	24.3	36.5





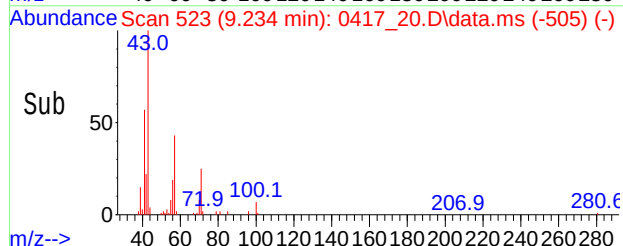
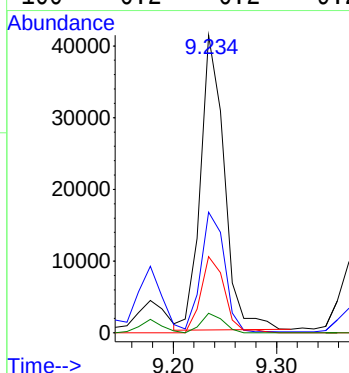
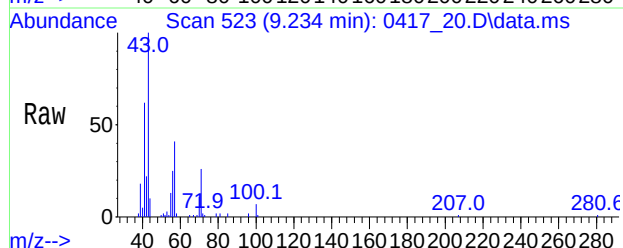
#40
Trichloroethene
Conc: 8\$ 1.008 ppbv
RT: 9.110 min Scan# 512
Delta R.T. -0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

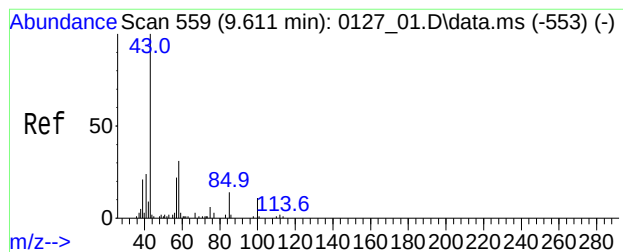
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	46447		
132	101.1	77.3	115.9	
97	64.2	50.8	76.2	



#44
Heptane
Conc: 8\$ 0.678 ppbv
RT: 9.234 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

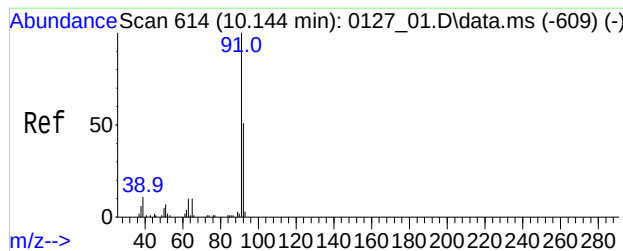
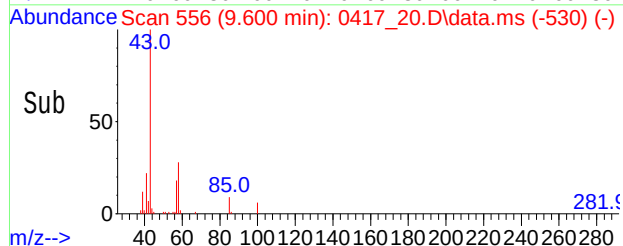
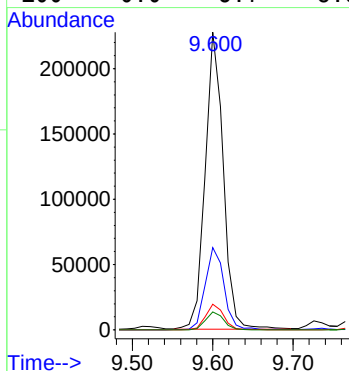
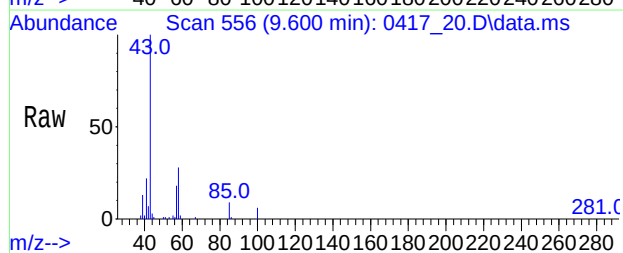
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	65782		
57	39.8	37.9	56.9	
71	25.8	24.4	36.6	
100	6.2	6.2	9.2	





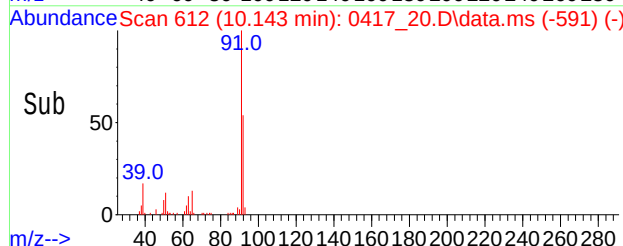
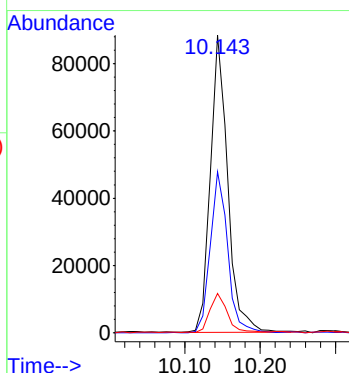
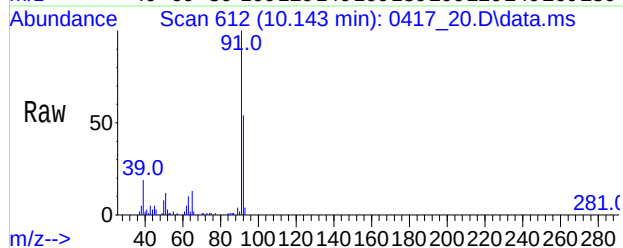
#46
4-Methyl-2-pentanone(MIBK)
Conc: 8\$ 2.812 ppbv
RT: 9.600 min Scan# 556
Delta R.T. -0.009 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

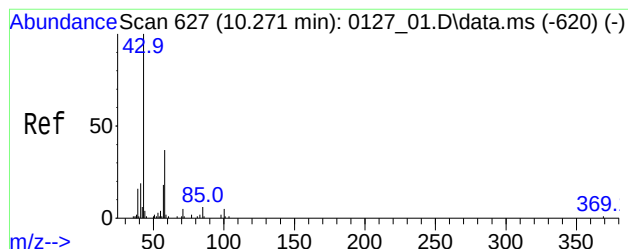
Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.0	25.4	38.2
85	8.7	8.0	12.0
100	6.0	5.7	8.5



#49
Toluene
Conc: 8\$ 1.193 ppbv
RT: 10.143 min Scan# 612
Delta R.T. 0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

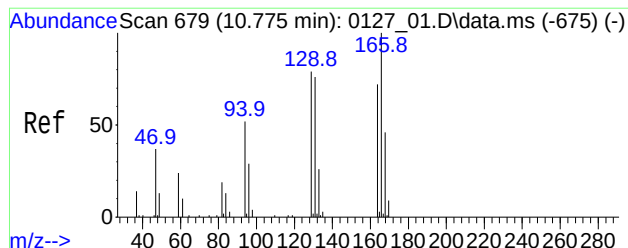
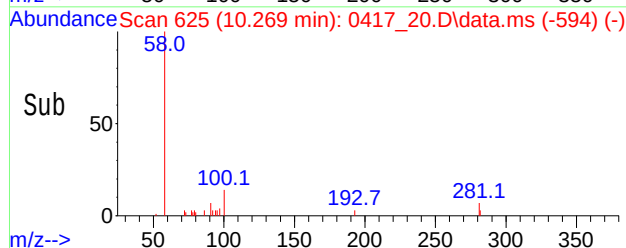
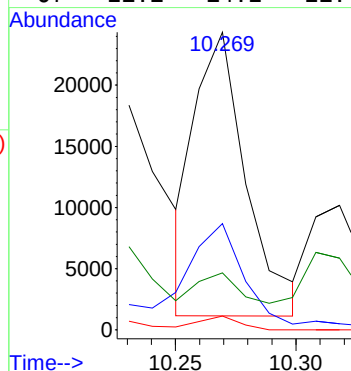
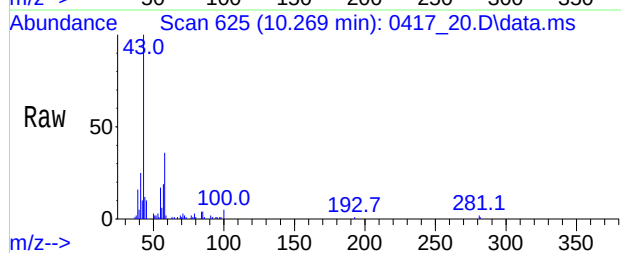
Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.4	44.8	67.2
65	13.1	10.5	15.7





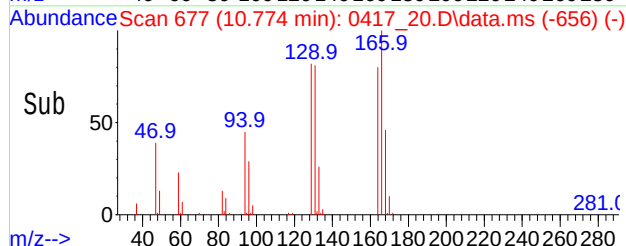
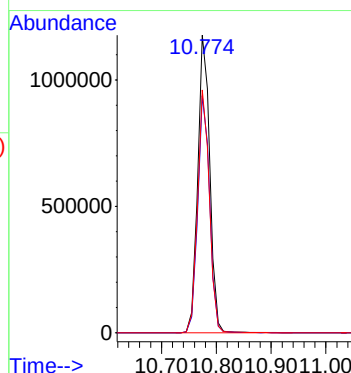
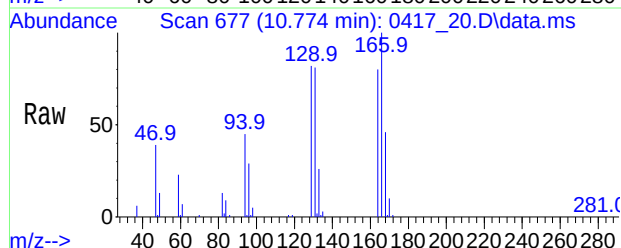
#51
2-Hexanone(MBK)
Conc: 8\$ 0.296 ppbv
RT: 10.269 min Scan# 625
Delta R.T. 0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

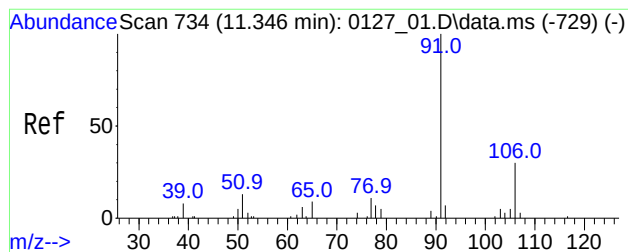
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	34369		
58	57.3	34.7	52.1#	
100	3.8	4.1	6.1#	
57	21.1	14.2	21.4	



#53
Tetrachloroethene
Conc: 8\$ 28.495 ppbv
RT: 10.774 min Scan# 677
Delta R.T. 0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

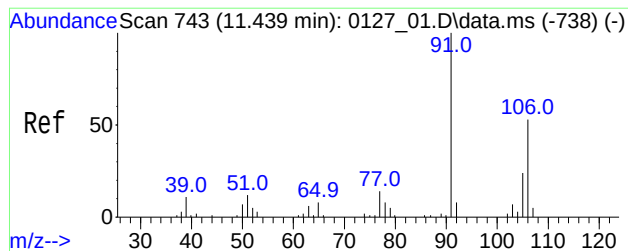
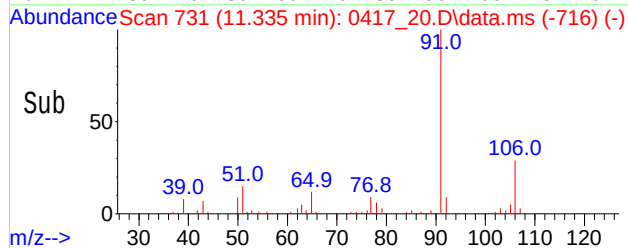
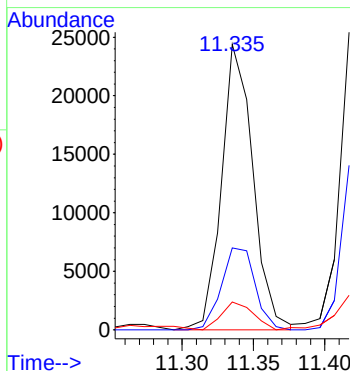
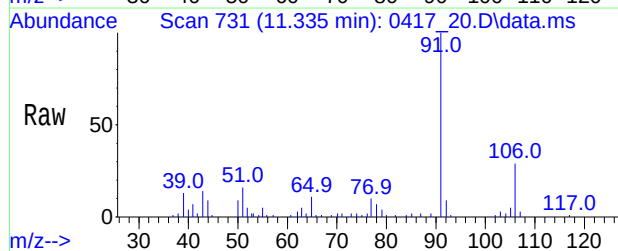
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	1802592		
164	78.7	65.8	98.6	
129	79.9	64.7	97.1	





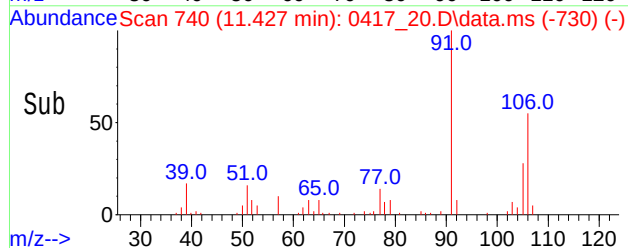
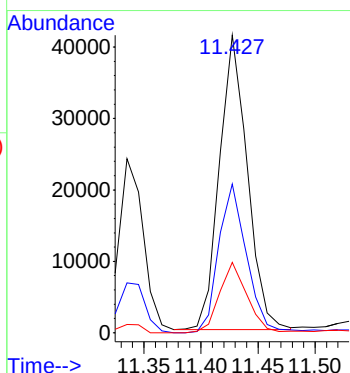
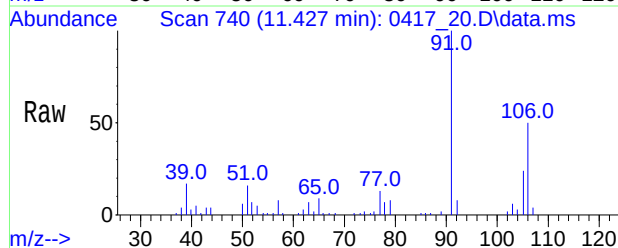
#57
Ethylbenzene
Conc: 8\$ 0.263 ppbv
RT: 11.335 min Scan# 731
Delta R.T. 0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

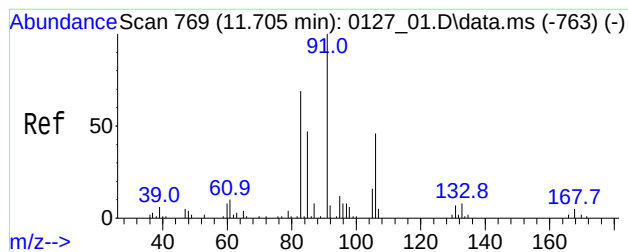
Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.8	12.3	52.3
77	10.4	0.0	28.6



#58
m,p-Xylene
Conc: 8\$ 0.660 ppbv
RT: 11.427 min Scan# 740
Delta R.T. 0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

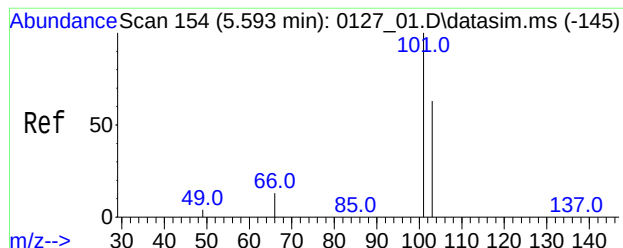
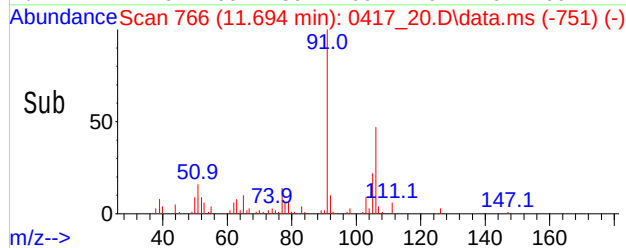
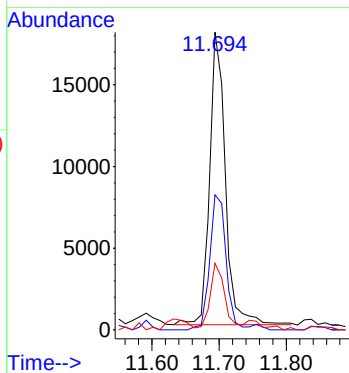
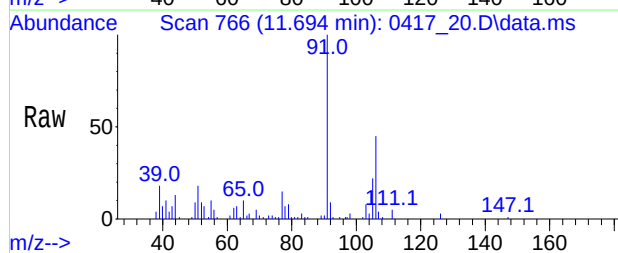
Tgt Ion	Ratio	Lower	Upper
91	100		
106	50.7	41.4	62.2
105	24.0	19.8	29.8





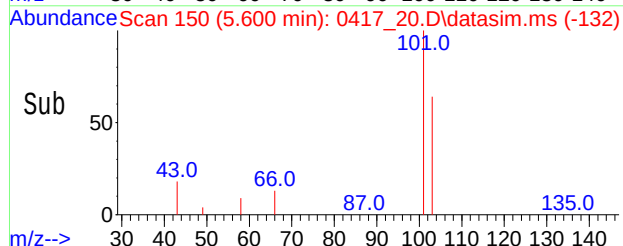
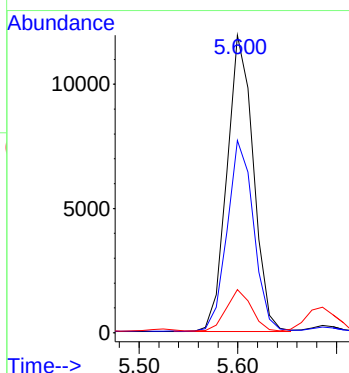
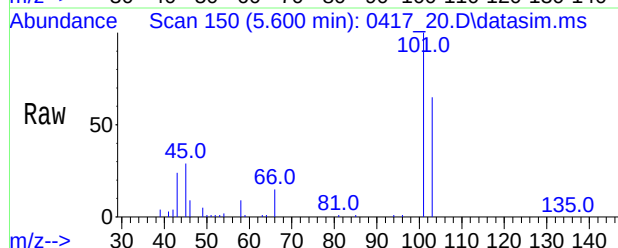
#62
o-Xylene
Conc: 8\$ 0.256 ppbv
RT: 11.694 min Scan# 766
Delta R.T. -0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

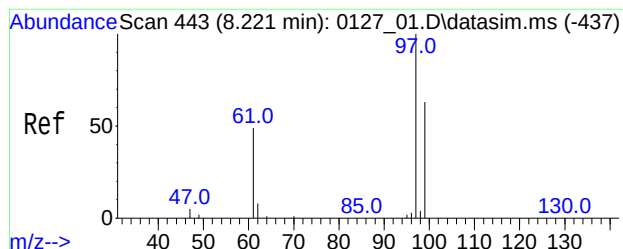
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	29191		
106	47.8	37.1	55.7	
105	21.3	16.2	24.2	



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.278 ppbv
RT: 5.600 min Scan# 150
Delta R.T. -0.010 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

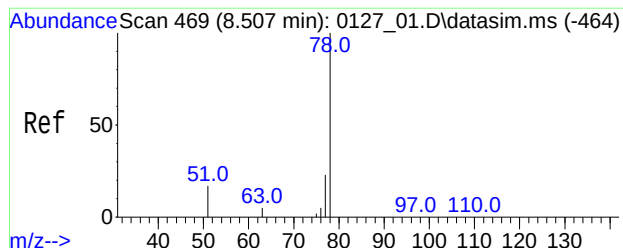
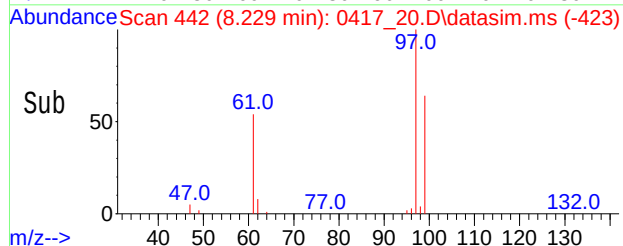
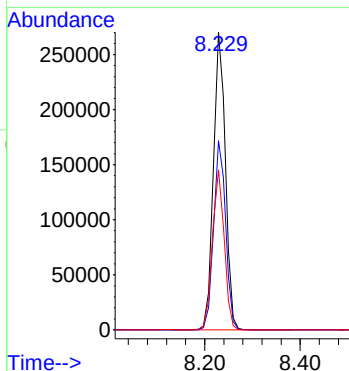
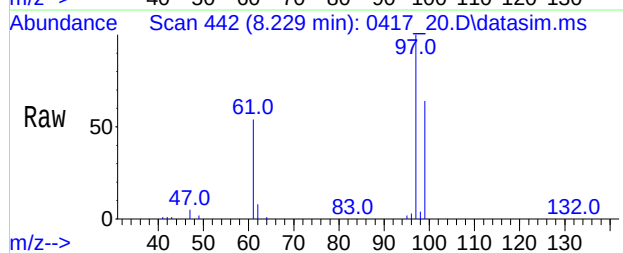
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	22236		
103	64.6	52.5	78.7	
66	14.0	18.3	18.3#	





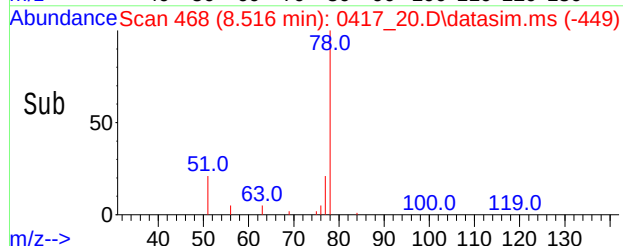
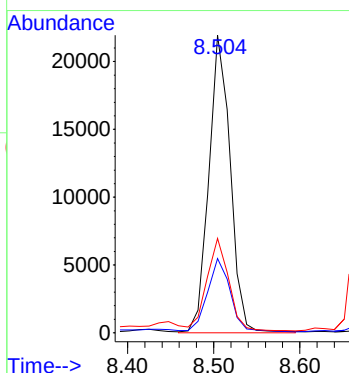
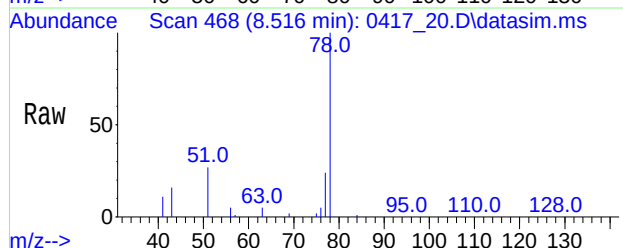
#87
1,1,1-Trichloroethane(sim)
Conc: 8\$ 6.458 ppbv
RT: 8.229 min Scan# 442
Delta R.T. 0.001 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

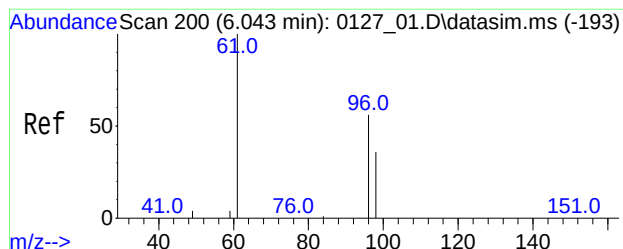
Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	64.4	64.4#
61	52.3	43.6	65.4



#88
Benzene(sim)
Conc: 8\$ 0.325 ppbv
RT: 8.510 min Scan# 468
Delta R.T. 0.011 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

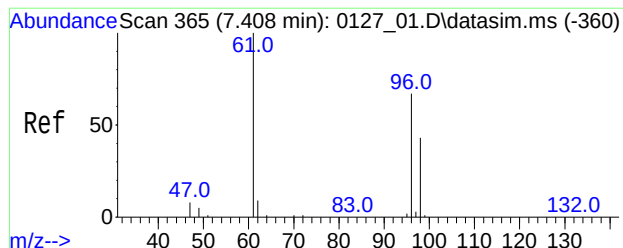
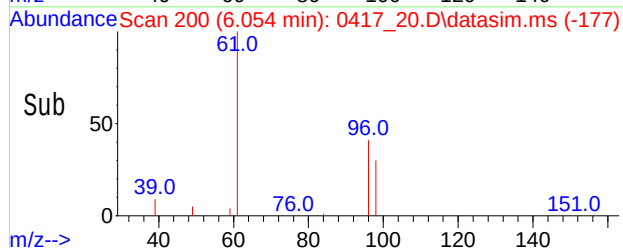
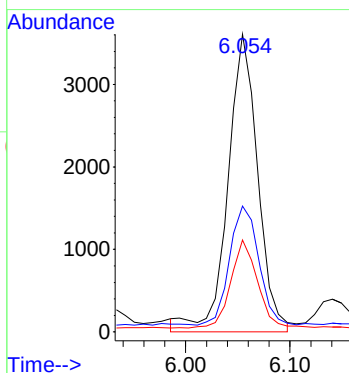
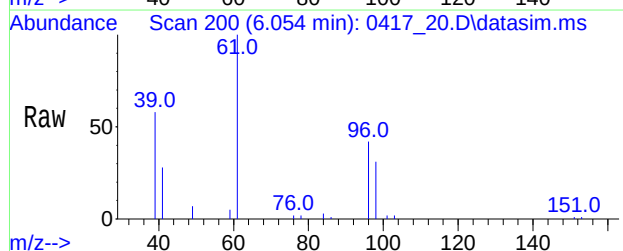
Tgt Ion	Ratio	Lower	Upper
78	100		
77	28.9	20.0	30.0
51	35.0	24.3	36.5





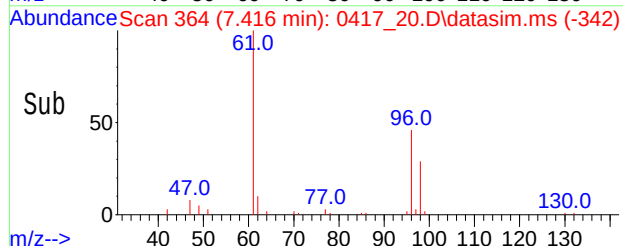
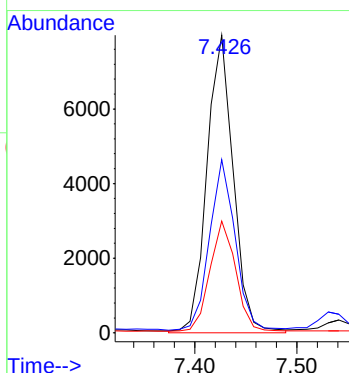
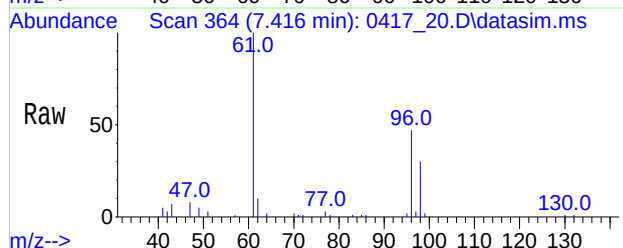
#90
1,1-Dichloroethene(sim)
Conc: 8\$ 0.110 ppbv
RT: 6.057 min Scan# 200
Delta R.T. 0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

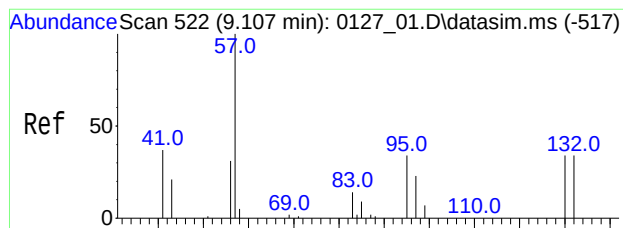
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	6935		
96	50.5	39.7	59.5	
98	24.8	26.4	39.6#	



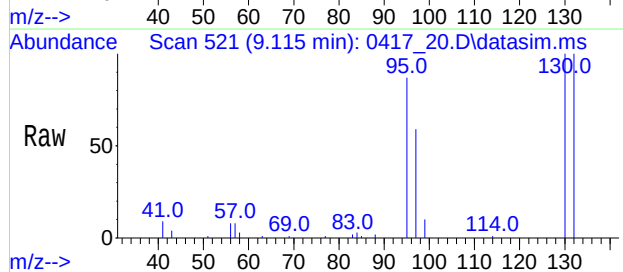
#94
Cis-1,2-Dichloroethene(sim)
Conc: 8\$ 0.208 ppbv
RT: 7.421 min Scan# 364
Delta R.T. -0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm

Tgt Ion	Ratio	Resp	Lower	Upper
61	100	12715		
96	60.7	47.8	71.8	
98	38.3	30.7	46.1	

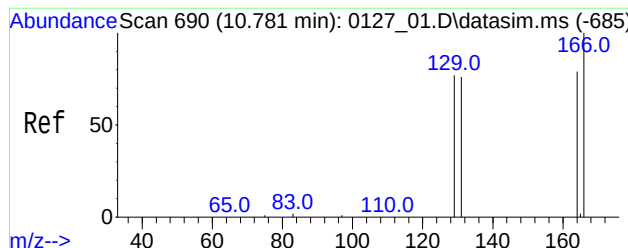
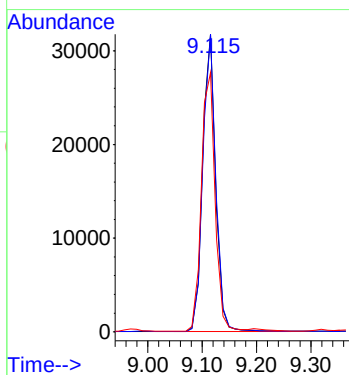
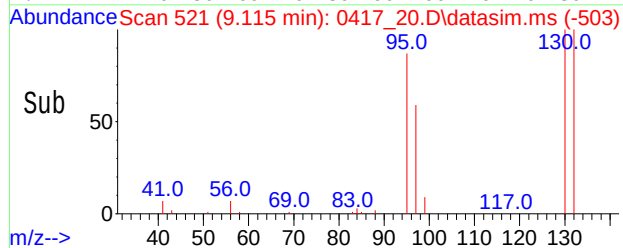




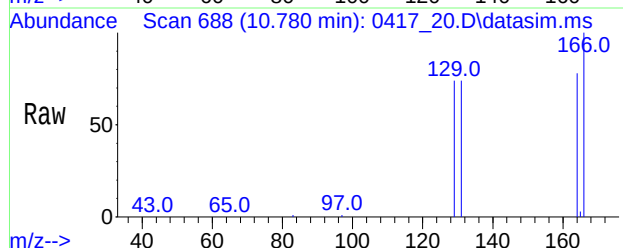
#99
Trichloroethene(sim)
Conc: 8\$ 0.932 ppbv
RT: 9.115 min Scan# 521
Delta R.T. 0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm



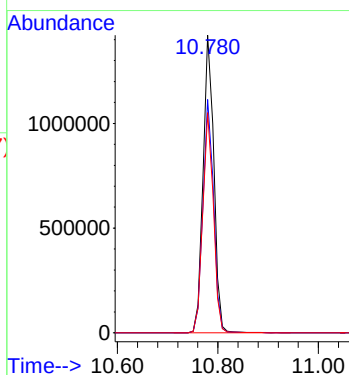
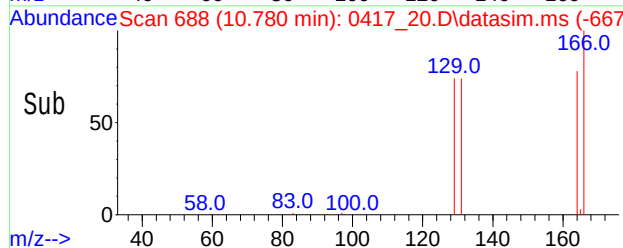
Tgt Ion: 130 Resp: 52739
Ion Ratio Lower Upper
130 100
132 100.1 79.0 118.4
95 92.0 73.0 109.6

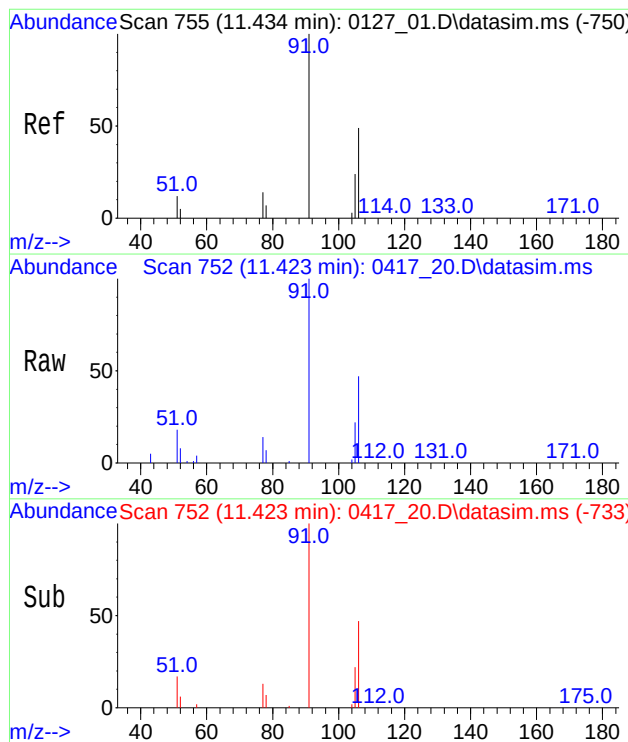


#105
Tetrachloroethene(sim)
Conc: 8\$ 25.349 ppbv
RT: 10.780 min Scan# 688
Delta R.T. -0.000 min
Lab File: 0417_20.D
Acq: 17 Apr 2023 7:39 pm



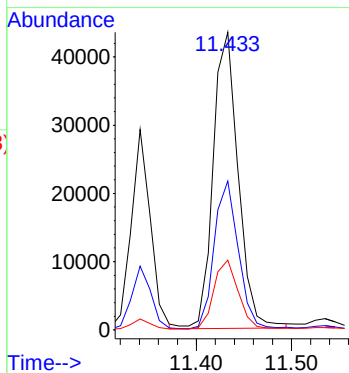
Tgt Ion: 166 Resp: 2102218
Ion Ratio Lower Upper
166 100
164 78.0 58.6 98.6
129 73.5 53.3 93.3





#108
 m,p-Xylene(sim)
 Conc: 8\$ 0.604 ppbv
 RT: 11.427 min Scan# 752
 Delta R.T. 0.000 min
 Lab File: 0417_20.D
 Acq: 17 Apr 2023 7:39 pm

Tgt Ion: 91	Resp: 72269
Ion Ratio	Lower Upper
91 100	
106 49.1	47.5 58.1
105 23.3	19.4 29.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN84181 Lab Sample ID: CN84187

Canister: 23349 Lab File ID: 0417_21.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/14/23

Purge Volume 200 (cc) Date Analyzed: 04/17/23

Matrix: AIR Dilution Factor: 1

SV-2

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.385		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	8.68	S	0.531	0.531	r
67-64-1	Acetone	8.37	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.202		0.178	0.178	r
67-63-0	Isopropylalcohol	0.814	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.683		0.339	0.339	r
110-54-3	Hexane	0.548	S	0.284	0.284	r
67-66-3	Chloroform	0.260		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-55-6	1,1,1-Trichloroethane	2.35		0.183	0.183	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	0.342		0.217	0.217	r
142-82-5	Heptane	2.55		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	0.995		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	12.2		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CN84187
Canister:	23349	Lab File ID:	0417_21.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	
		Date Received:	04/14/23
		Date Analyzed:	04/17/23
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.293		0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_21.D
 Acq On : 17 Apr 2023 8:16 pm
 Operator :
 Client ID : SV-2
 Lab ID : CN84187
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 18 12:35:39 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

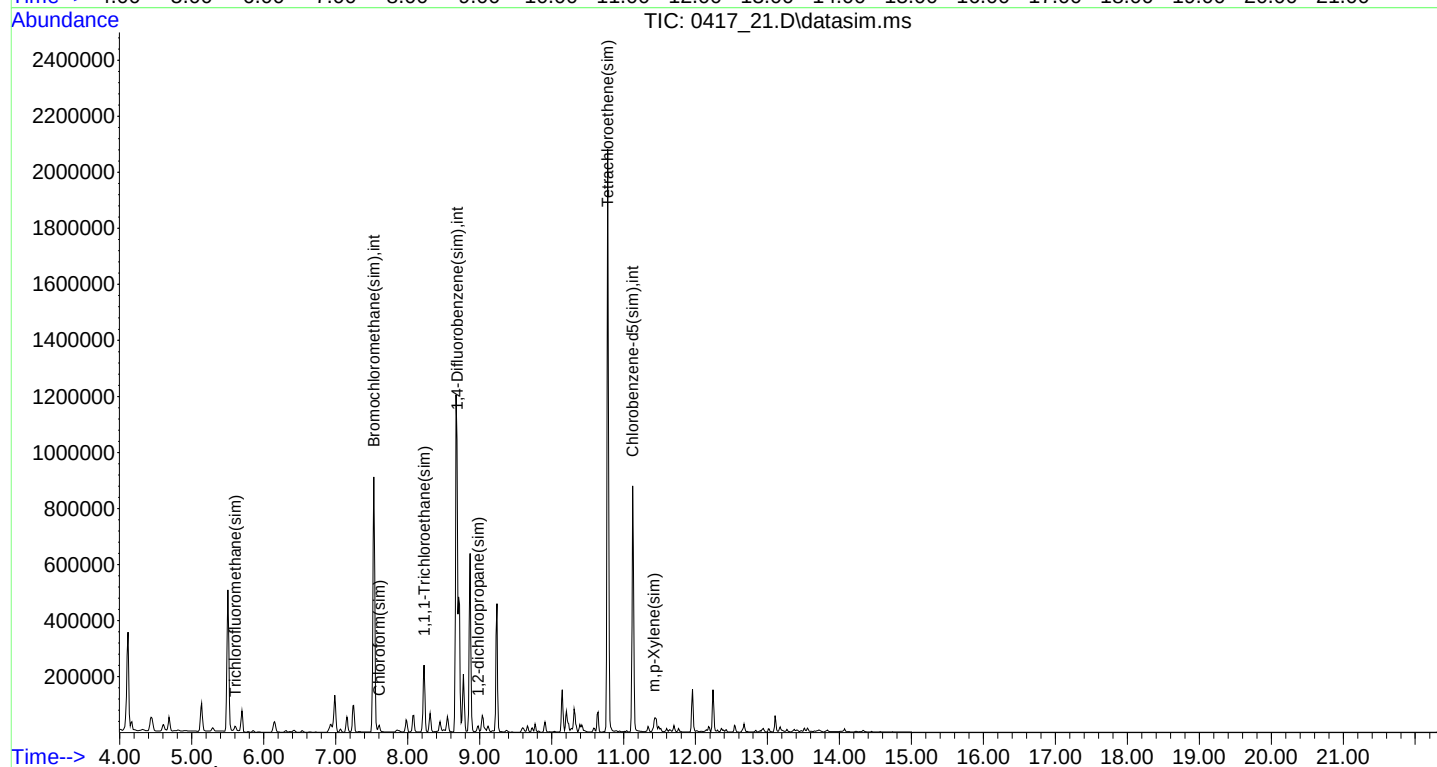
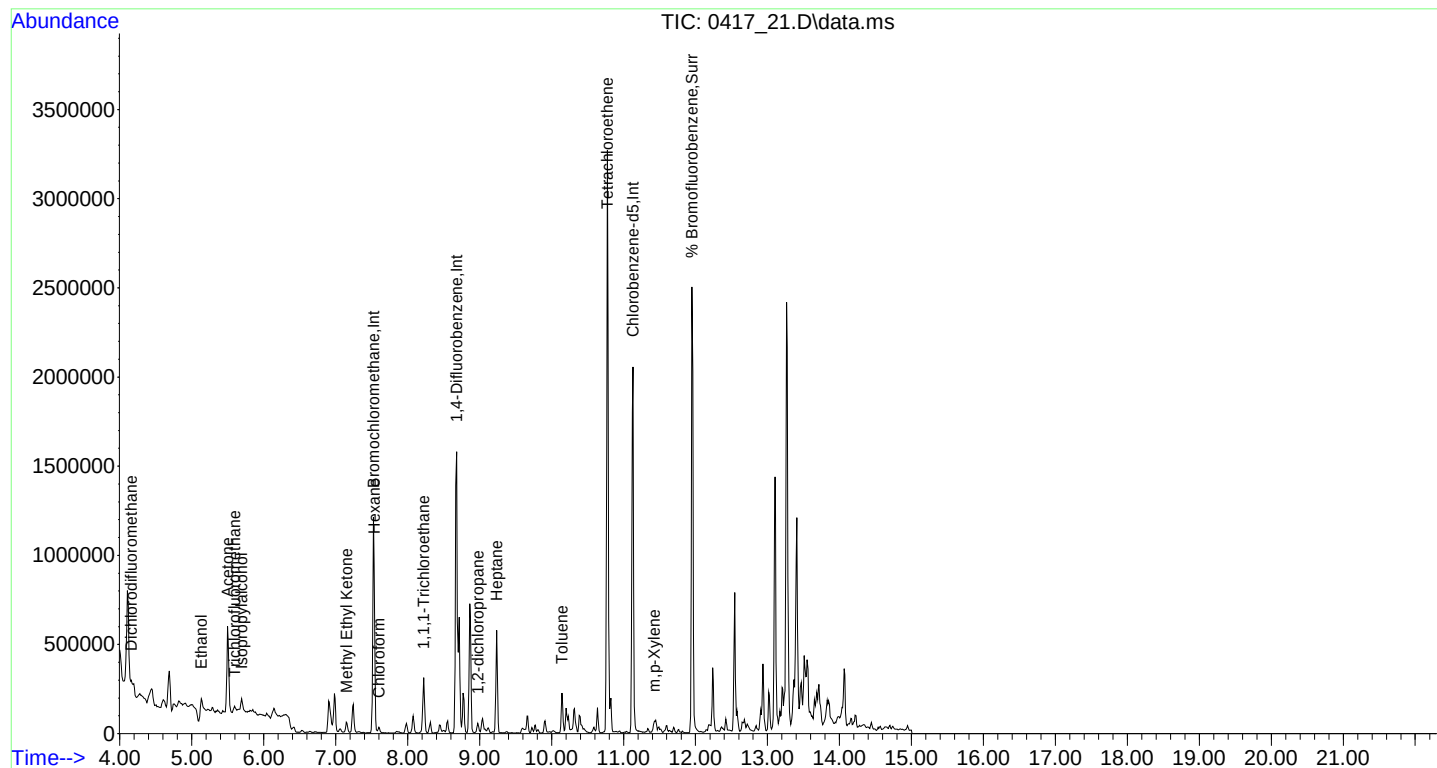
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	311227	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1123740	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	504779	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	337577	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1122840	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	504779	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	722337	10.479	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.80%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.160	85	28295	0.385	ppbv	97
11) Ethanol	5.131	45	123249	8.679	ppbv#	81
12) Acetone	5.497	43	598394	8.369	ppbv	97
13) Trichlorofluoromethane	5.594	101	15878	0.202	ppbv	95
14) Isopropylalcohol	5.691	45	52154	0.814	ppbv#	87
26) Methyl Ethyl Ketone	7.149	43	74542	0.683	ppbv	98
28) Hexane	7.535	57	36444	0.548	ppbv	95
29) Chloroform	7.598	83	17116	0.260	ppbv	99
33) 1,1,1-Trichloroethane	8.223	97	182844	2.354	ppbv	96
38) 1,2-dichloropropane	8.974	63	15063	0.342	ppbv	99
44) Heptane	9.234	43	248244	2.546	ppbv	93
49) Toluene	10.143	91	118058	0.995	ppbv	99
53) Tetrachloroethene	10.774	166	777925	12.231	ppbv	97
58) m,p-Xylene	11.427	91	34240	0.319	ppbv	100
85) Trichlorofluoromethane...	5.600	101	17379	0.217	ppbv#	97
87) 1,1,1-Trichloroethane(...	8.229	97	169849	2.279	ppbv#	98
95) Chloroform(sim)	7.604	83	17081	0.242	ppbv	99
97) 1,2-dichloropropane(sim)	8.980	63	15384	0.297	ppbv	99
105) Tetrachloroethene(sim)	10.780	166	916765	11.004	ppbv	100
108) m,p-Xylene(sim)	11.427	91	35369	0.293	ppbv	97

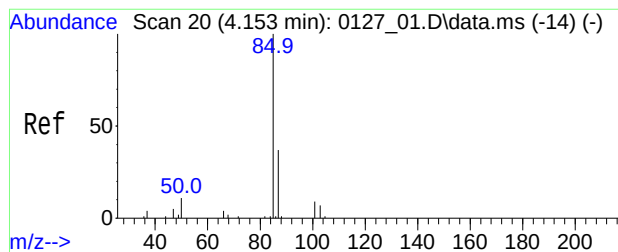
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_21.D
 Acq On : 17 Apr 2023 8:16 pm
 Operator :
 Client ID : SV-2
 Lab ID : CN84187
 ALS Vial : 13 Sample Multiplier: 1

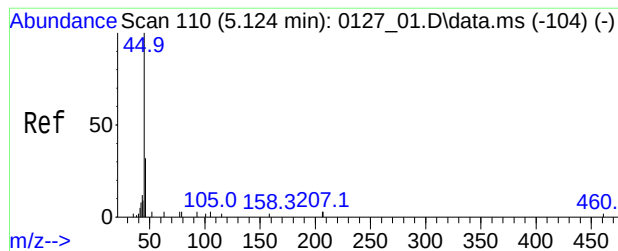
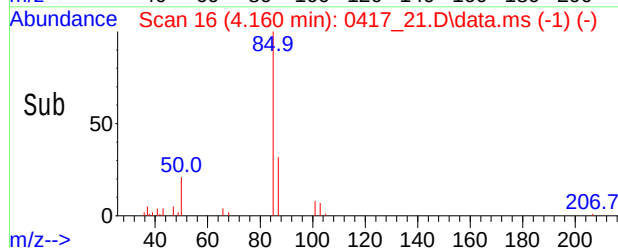
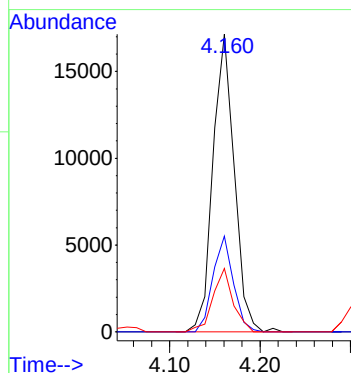
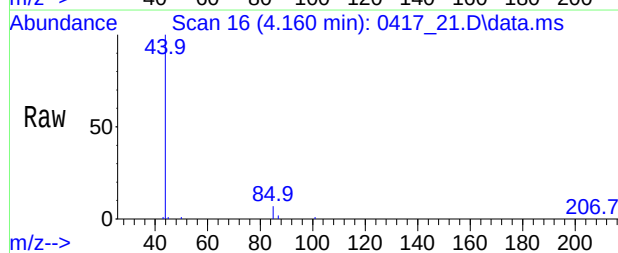
Quant Time: Apr 18 12:35:39 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration





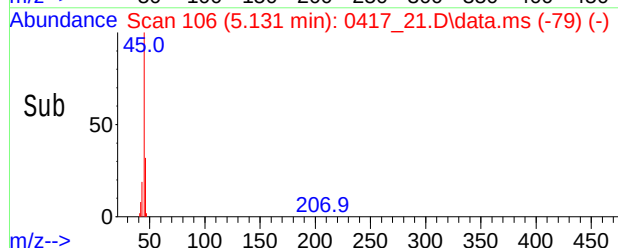
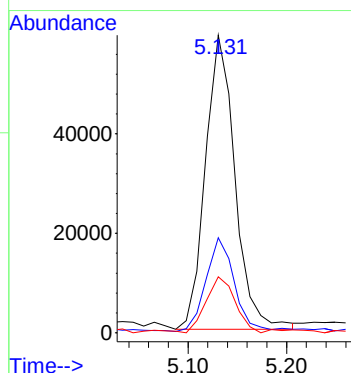
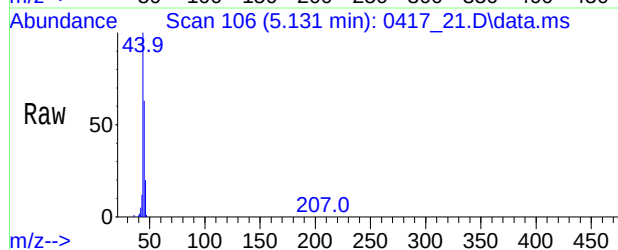
#3
Dichlorodifluoromethane
Conc: 8\$ 0.385 ppbv
RT: 4.160 min Scan# 16
Delta R.T. -0.011 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

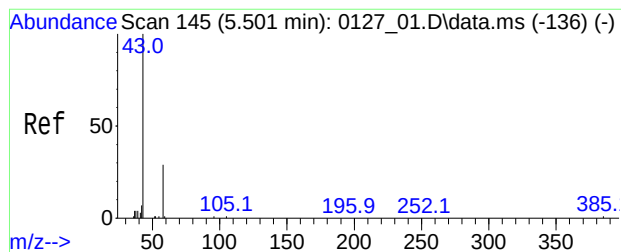
Tgt Ion	Ratio	Lower	Upper
85	100		
87	30.9	25.1	37.7
50	20.1	18.1	27.1



#11
Ethanol
Conc: 8\$ 8.679 ppbv
RT: 5.131 min Scan# 106
Delta R.T. -0.010 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

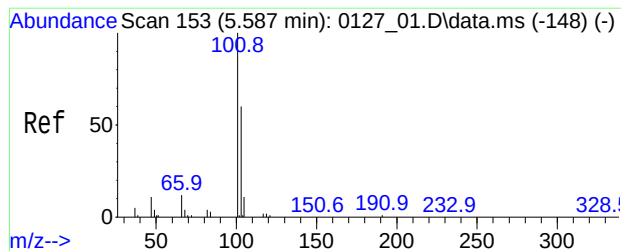
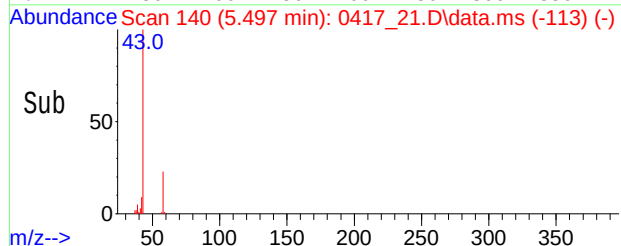
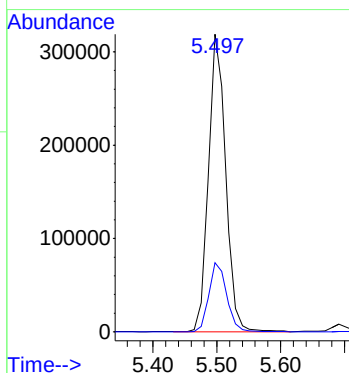
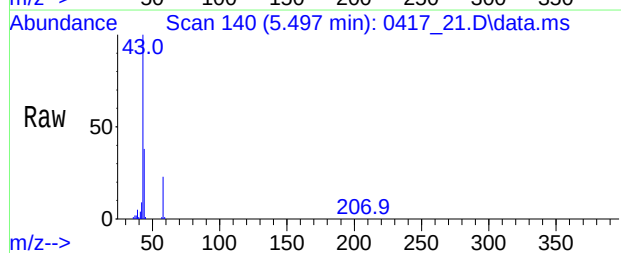
Tgt Ion	Ratio	Lower	Upper
45	100		
46	31.8	25.1	37.7
43	18.6	31.4	47.2#





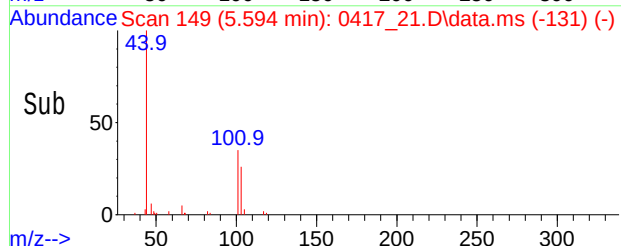
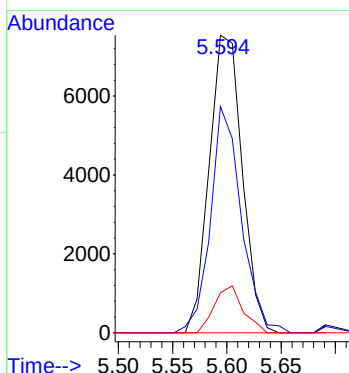
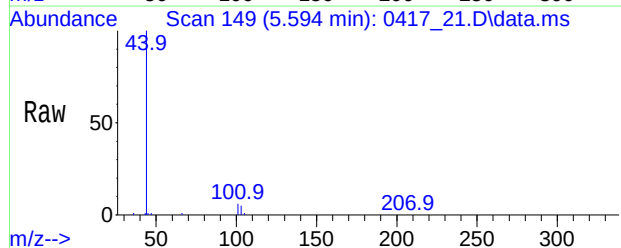
#12
Acetone
Conc: 8\$ 8.369 ppbv
RT: 5.497 min Scan# 140
Delta R.T. -0.011 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

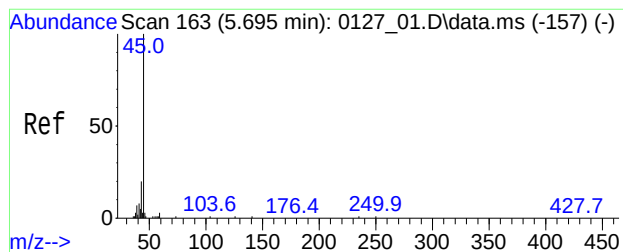
Tgt Ion: 43 Resp: 598394
Ion Ratio Lower Upper
43 100
58 24.1 20.6 30.8



#13
Trichlorofluoromethane
Conc: 8\$ 0.202 ppbv
RT: 5.594 min Scan# 149
Delta R.T. -0.011 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

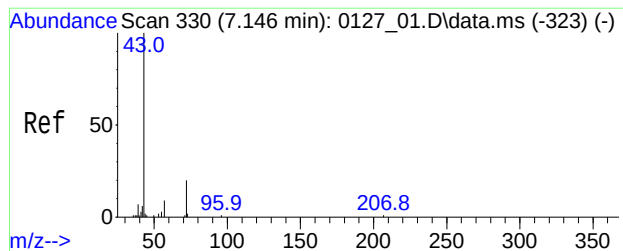
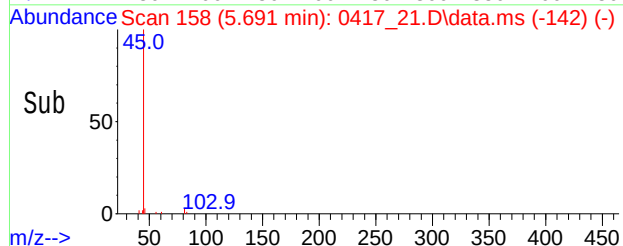
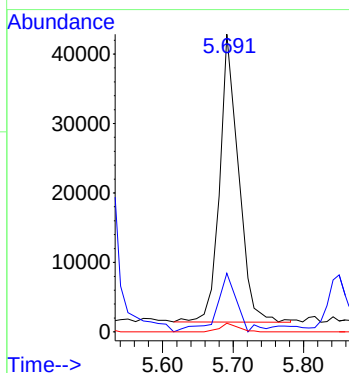
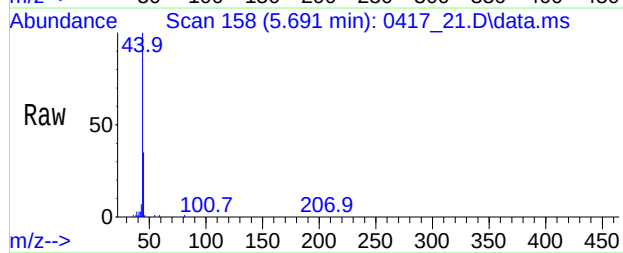
Tgt Ion: 101 Resp: 15878
Ion Ratio Lower Upper
101 100
103 71.2 53.8 80.8
66 13.7 12.9 19.3





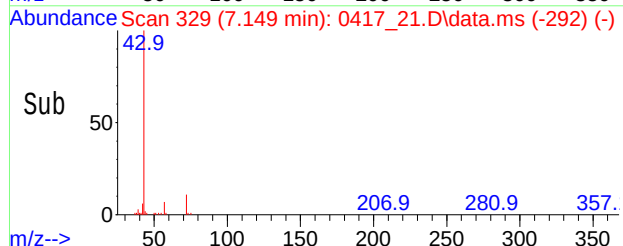
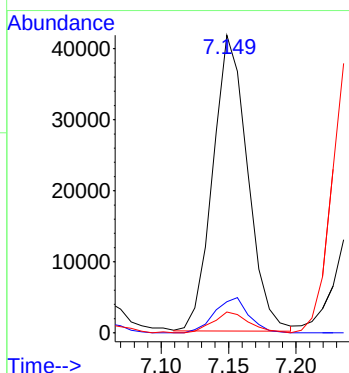
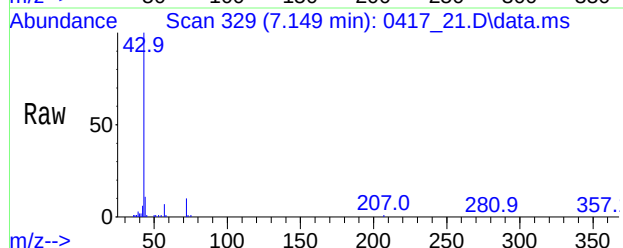
#14
Isopropylalcohol
Conc: 8\$ 0.814 ppbv
RT: 5.691 min Scan# 158
Delta R.T. -0.030 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

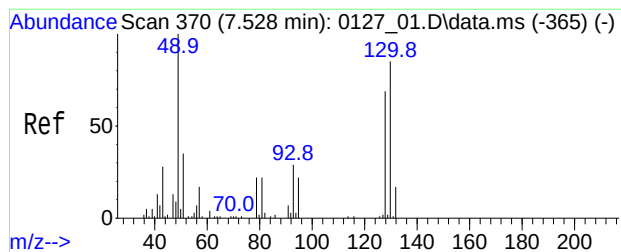
Tgt Ion	Ratio	Lower	Upper
45	100		
43	26.7	15.9	23.9#
59	3.2	3.6	5.4#



#26
Methyl Ethyl Ketone
Conc: 8\$ 0.683 ppbv
RT: 7.149 min Scan# 329
Delta R.T. -0.007 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

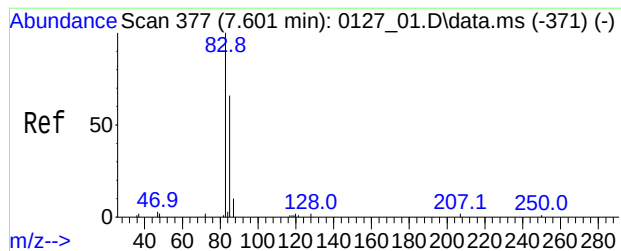
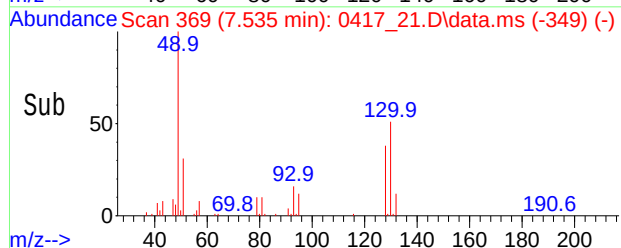
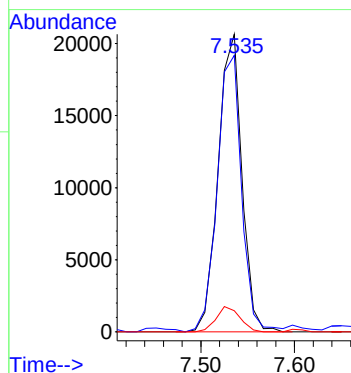
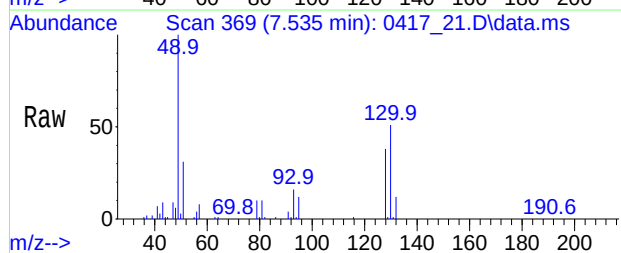
Tgt Ion	Ratio	Lower	Upper
43	100		
72	11.7	10.2	15.4
57	7.3	6.1	9.1





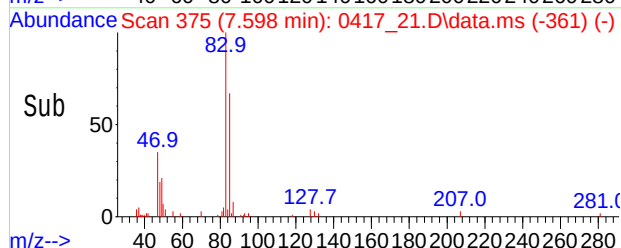
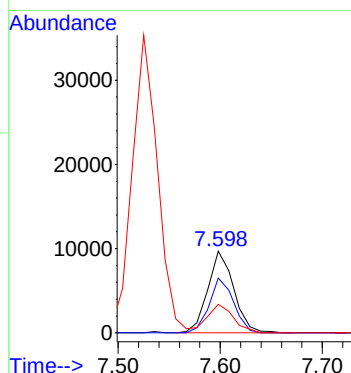
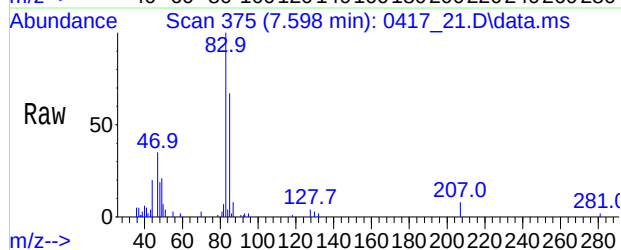
#28
Hexane
Conc: 8\$ 0.548 ppbv
RT: 7.535 min Scan# 369
Delta R.T. 0.010 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

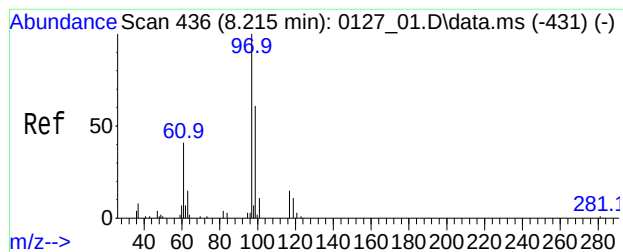
Tgt Ion: 57 Resp: 36444
Ion Ratio Lower Upper
57 100
41 95.1 72.3 108.5
86 8.5 7.0 10.6



#29
Chloroform
Conc: 8\$ 0.260 ppbv
RT: 7.598 min Scan# 375
Delta R.T. -0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

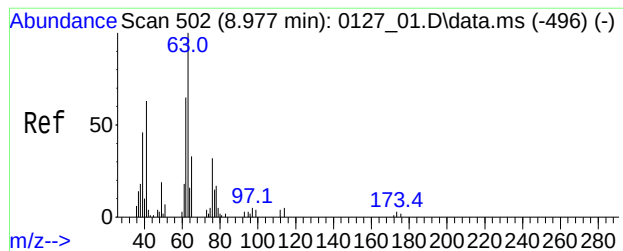
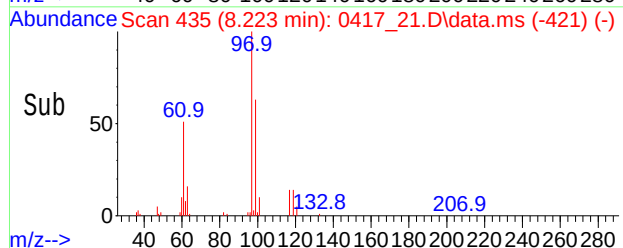
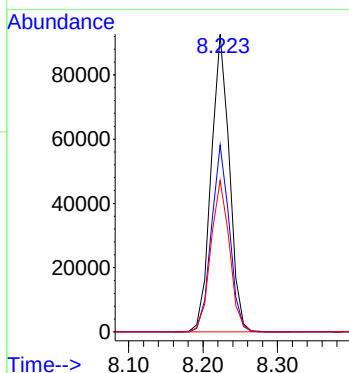
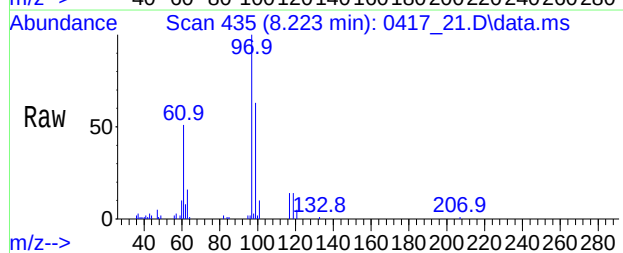
Tgt Ion: 83 Resp: 17116
Ion Ratio Lower Upper
83 100
85 62.7 43.0 83.0
47 35.7 16.5 56.5





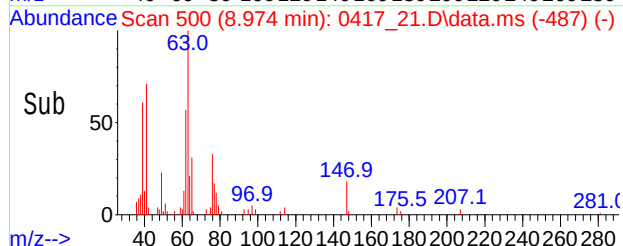
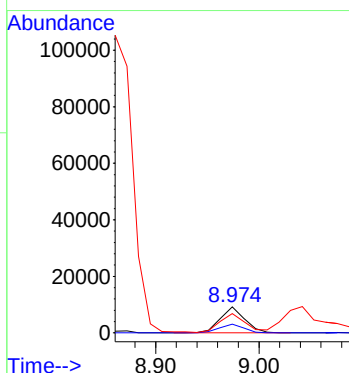
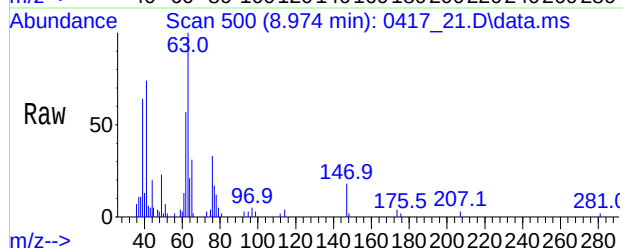
#33
 1,1,1-Trichloroethane
 Conc: 8\$ 2.354 ppbv
 RT: 8.223 min Scan# 435
 Delta R.T. -0.000 min
 Lab File: 0417_21.D
 Acq: 17 Apr 2023 8:16 pm

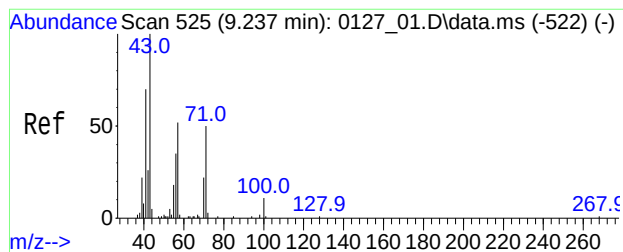
Tgt Ion	Ratio	Lower	Upper
97	100		
99	53.3	46.2	69.4
61	44.7	35.5	53.3



#38
 1,2-dichloropropane
 Conc: 8\$ 0.342 ppbv
 RT: 8.974 min Scan# 500
 Delta R.T. 0.000 min
 Lab File: 0417_21.D
 Acq: 17 Apr 2023 8:16 pm

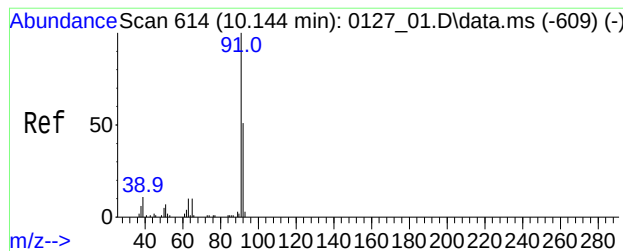
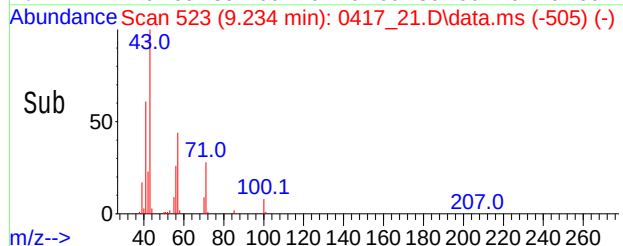
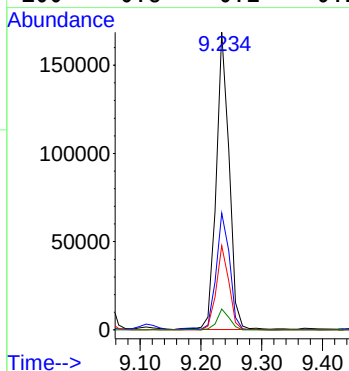
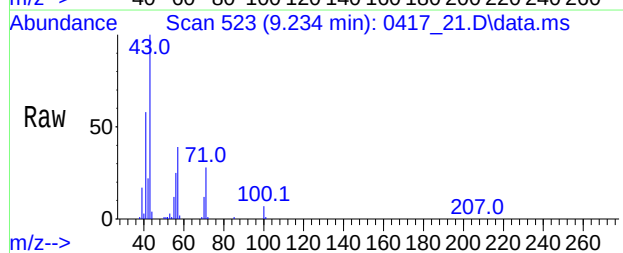
Tgt Ion	Ratio	Lower	Upper
63	100		
76	33.3	25.2	37.8
41	75.8	60.7	91.1





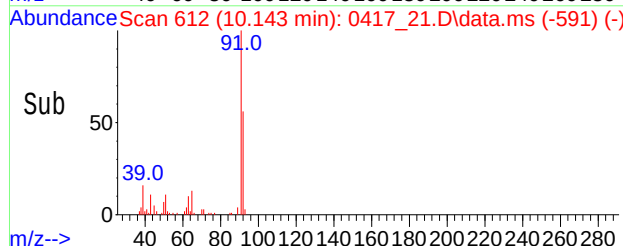
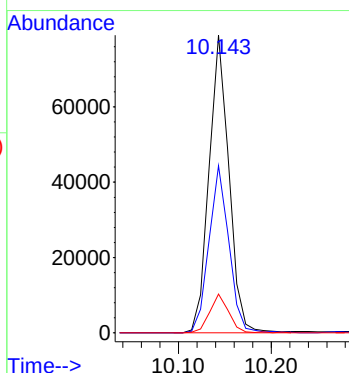
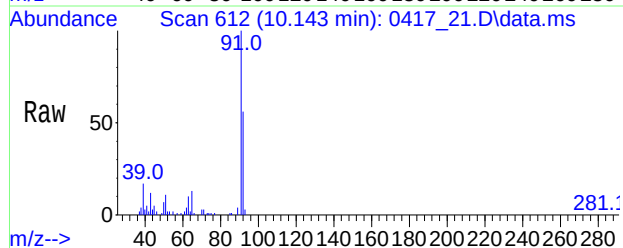
#44
Heptane
Conc: 8\$ 2.546 ppbv
RT: 9.234 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

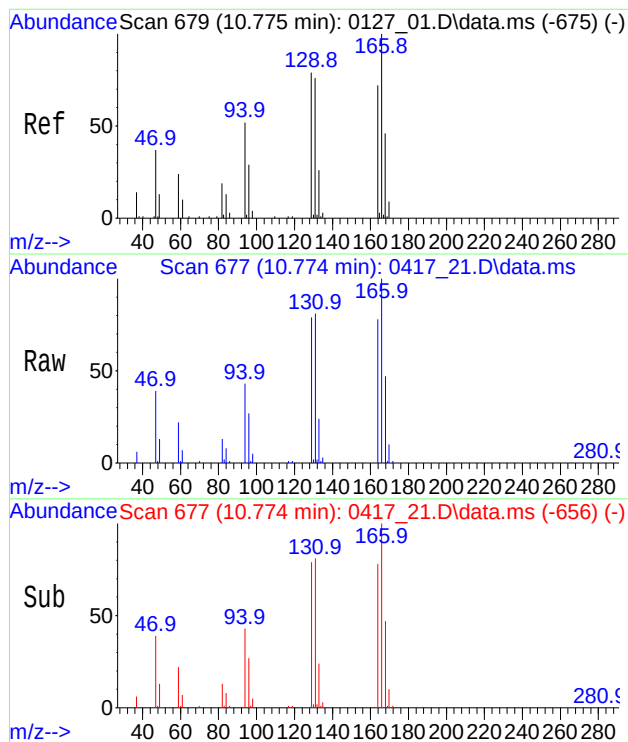
Tgt Ion	Ratio	Lower	Upper
43	100		
57	41.6	37.9	56.9
71	27.6	24.4	36.6
100	6.8	6.2	9.2



#49
Toluene
Conc: 8\$ 0.995 ppbv
RT: 10.143 min Scan# 612
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

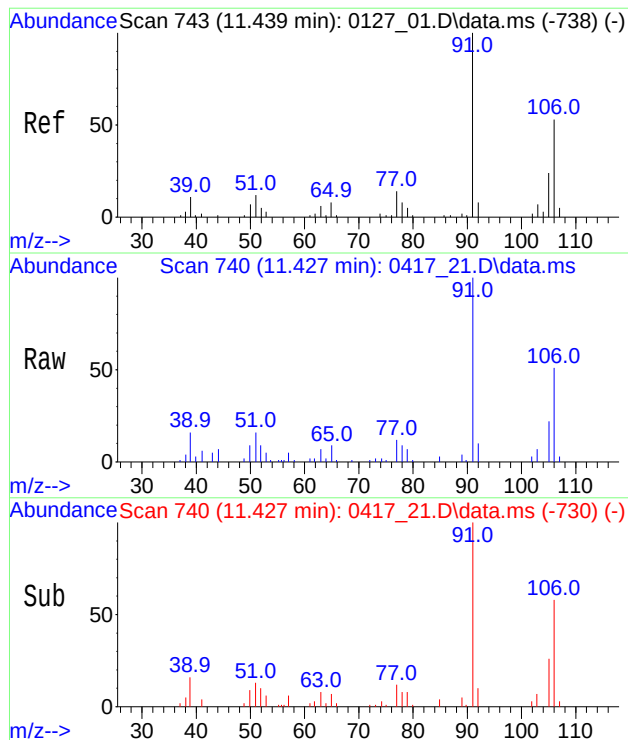
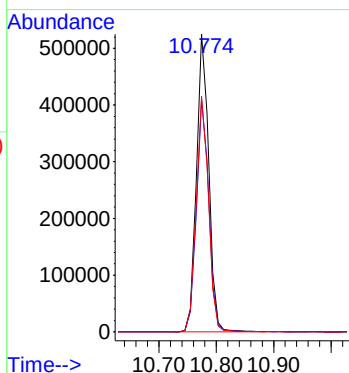
Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.4	44.8	67.2
65	12.6	10.5	15.7





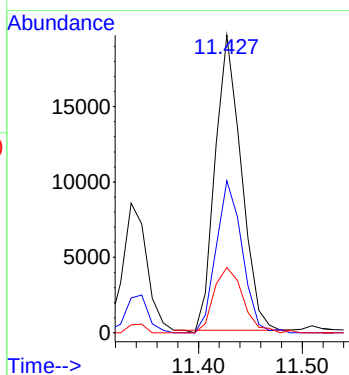
#53
Tetrachloroethene
Conc: 8\$ 12.231 ppbv
RT: 10.774 min Scan# 677
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

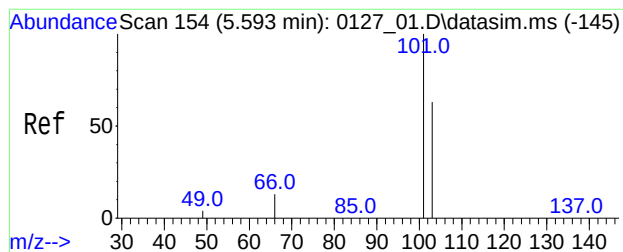
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	777925		
164	78.7	65.8	98.6	
129	78.9	64.7	97.1	



#58
m,p-Xylene
Conc: 8\$ 0.319 ppbv
RT: 11.427 min Scan# 740
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

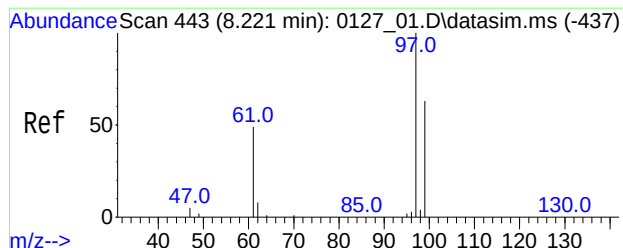
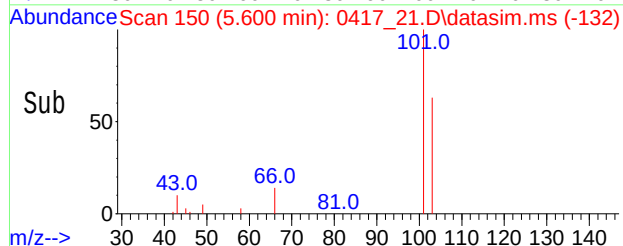
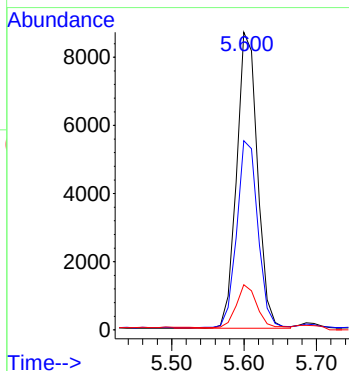
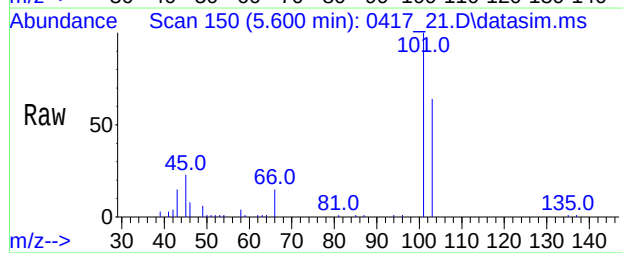
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	34240		
106	51.6	41.4	62.2	
105	24.6	19.8	29.8	





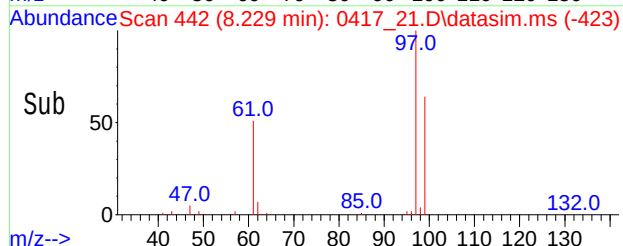
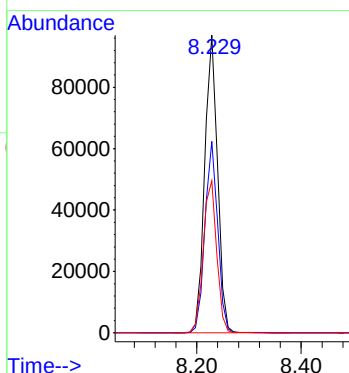
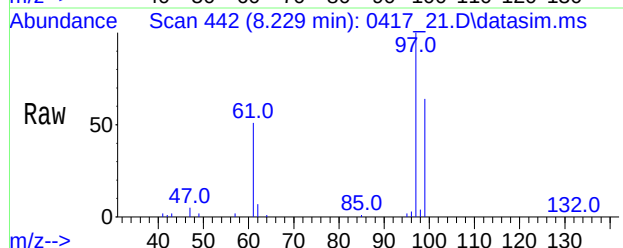
#85
 Trichlorofluoromethane(sim)
 Conc: 8\$ 0.217 ppbv
 RT: 5.600 min Scan# 150
 Delta R.T. -0.010 min
 Lab File: 0417_21.D
 Acq: 17 Apr 2023 8:16 pm

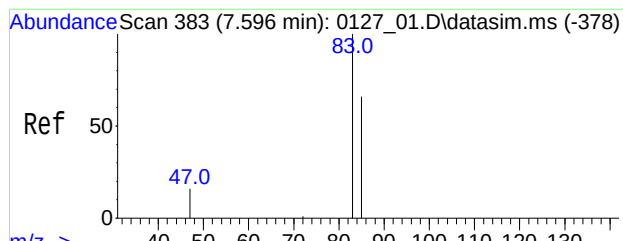
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	17379		
103	64.2	52.5	78.7	
66	14.9	18.3	18.3	



#87
 1,1,1-Trichloroethane(sim)
 Conc: 8\$ 2.279 ppbv
 RT: 8.229 min Scan# 442
 Delta R.T. 0.001 min
 Lab File: 0417_21.D
 Acq: 17 Apr 2023 8:16 pm

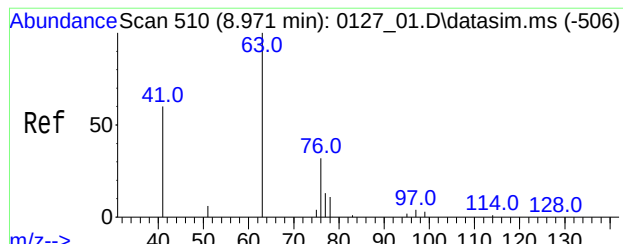
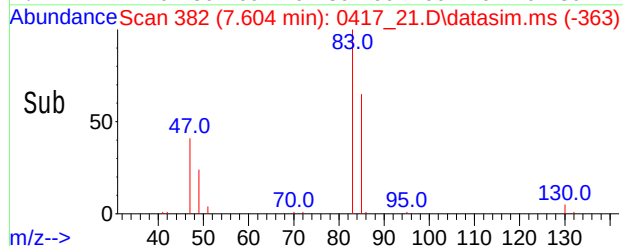
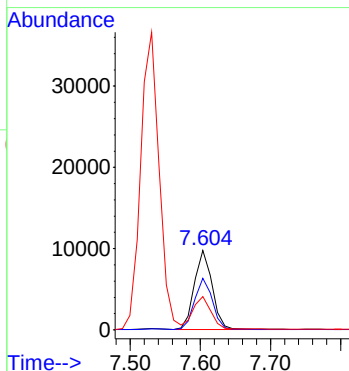
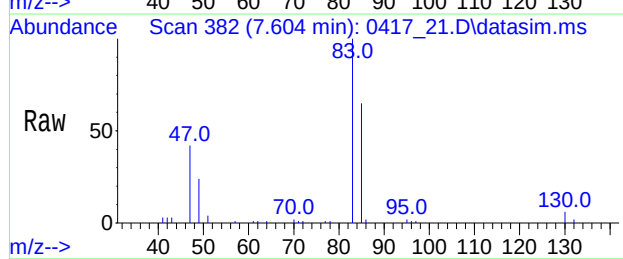
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	169849		
99	63.7	64.4	64.4	
61	52.3	43.6	65.4	





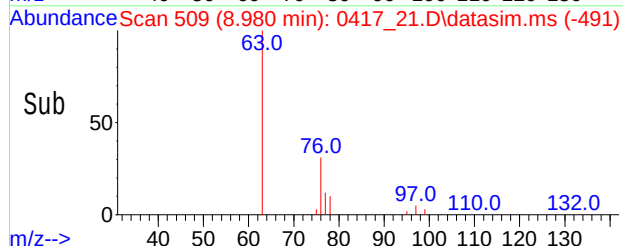
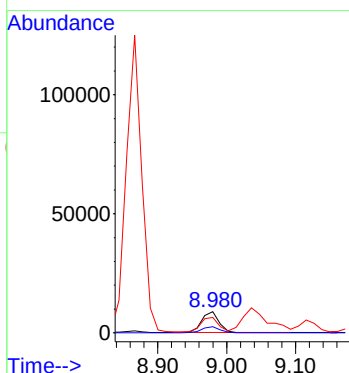
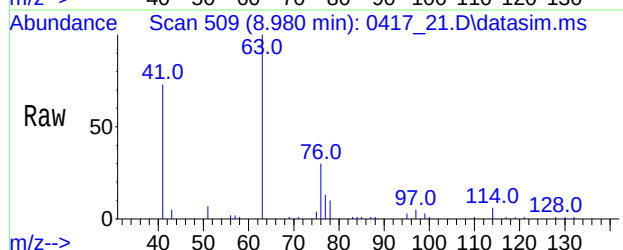
#95
Chloroform(sim)
Conc: 8\$ 0.242 ppbv
RT: 7.604 min Scan# 382
Delta R.T. 0.001 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

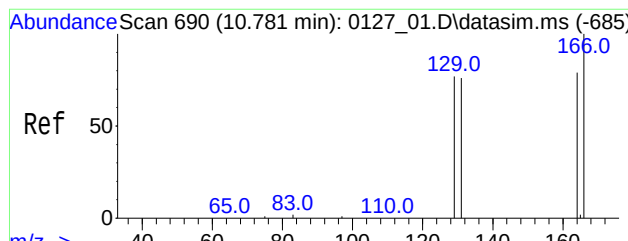
Tgt Ion: 83 Resp: 17081
Ion Ratio Lower Upper
83 100
85 64.7 51.5 77.3
47 41.3 31.4 47.2



#97
1,2-dichloropropane(sim)
Conc: 8\$ 0.297 ppbv
RT: 8.980 min Scan# 509
Delta R.T. 0.001 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

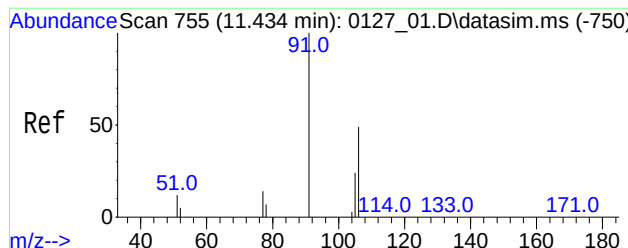
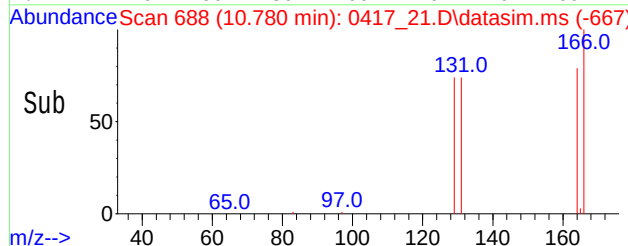
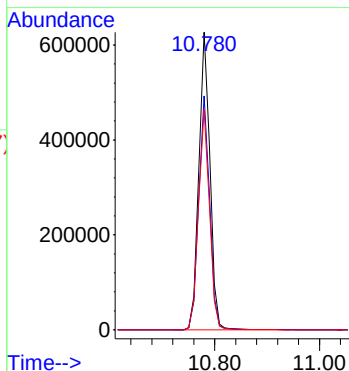
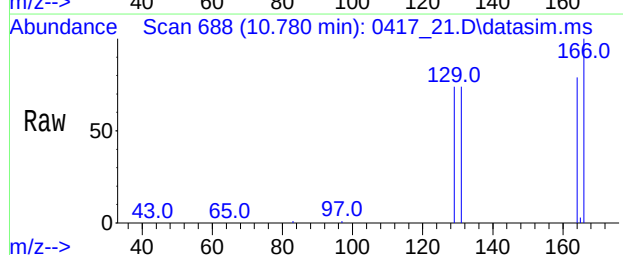
Tgt Ion: 63 Resp: 15384
Ion Ratio Lower Upper
63 100
76 29.2 22.9 34.3
41 70.1 55.4 83.0





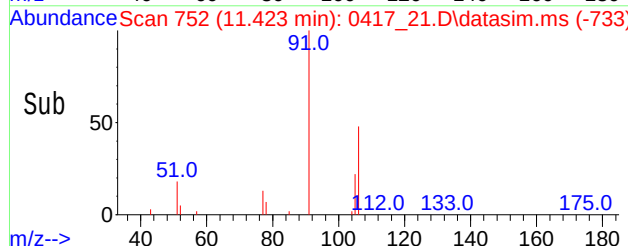
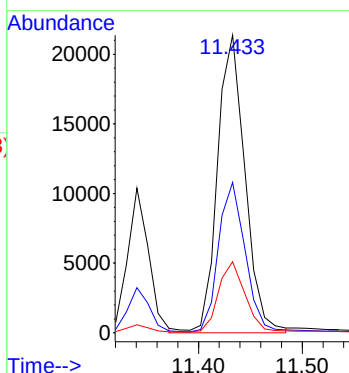
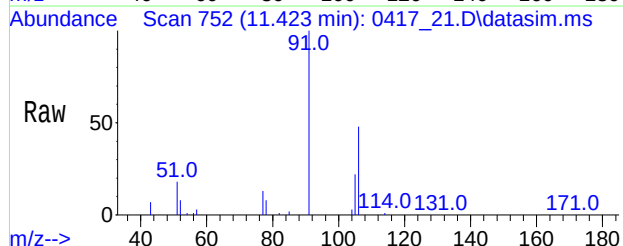
#105
Tetrachloroethene(sim)
Conc: 8\$ 11.004 ppbv
RT: 10.780 min Scan# 688
Delta R.T. -0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.3	58.6	98.6
129	73.8	53.3	93.3



#108
m,p-Xylene(sim)
Conc: 8\$ 0.293 ppbv
RT: 11.427 min Scan# 752
Delta R.T. 0.000 min
Lab File: 0417_21.D
Acq: 17 Apr 2023 8:16 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	50.0	47.5	58.1
105	24.0	19.4	29.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84188</u>
Canister:	<u>23332</u>	Lab File ID:	<u>0414_23.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/14/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.502		0.202	0.202	r
74-87-3	Chloromethane	0.689		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	65.2	ES	0.531	0.531	r
67-64-1	Acetone	14.3	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.229		0.178	0.178	r
67-63-0	Isopropylalcohol	5.44	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	2.85	S	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	2.49		0.339	0.339	r
110-54-3	Hexane	3.18	S	0.284	0.284	r
67-66-3	Chloroform	1.78		0.205	0.205	r
141-78-6	Ethyl acetate	0.485		0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	2.03		0.217	0.217	r
142-82-5	Heptane	13.4		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	5.22		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.253		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.347		0.230	0.230	r
179601-23-1	m,p-Xylene	0.981		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.411		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84188</u>
Canister:	<u>23332</u>	Lab File ID:	<u>0414_23.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/14/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.076		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.066		0.051	0.051	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.059		0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_23.D
 Acq On : 14 Apr 2023 10:23 pm
 Operator :
 Client ID : IA-5
 Lab ID : CN84188
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Apr 16 19:05:34 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.535	130	282233	10.000	ng	0.01
37) 1,4-Difluorobenzene	8.680	114	1026256	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	470026	10.000	ng	0.00
81) Bromochloromethane(sim)	7.541	130	307017	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1026256	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	470026	10.000	ng	0.00

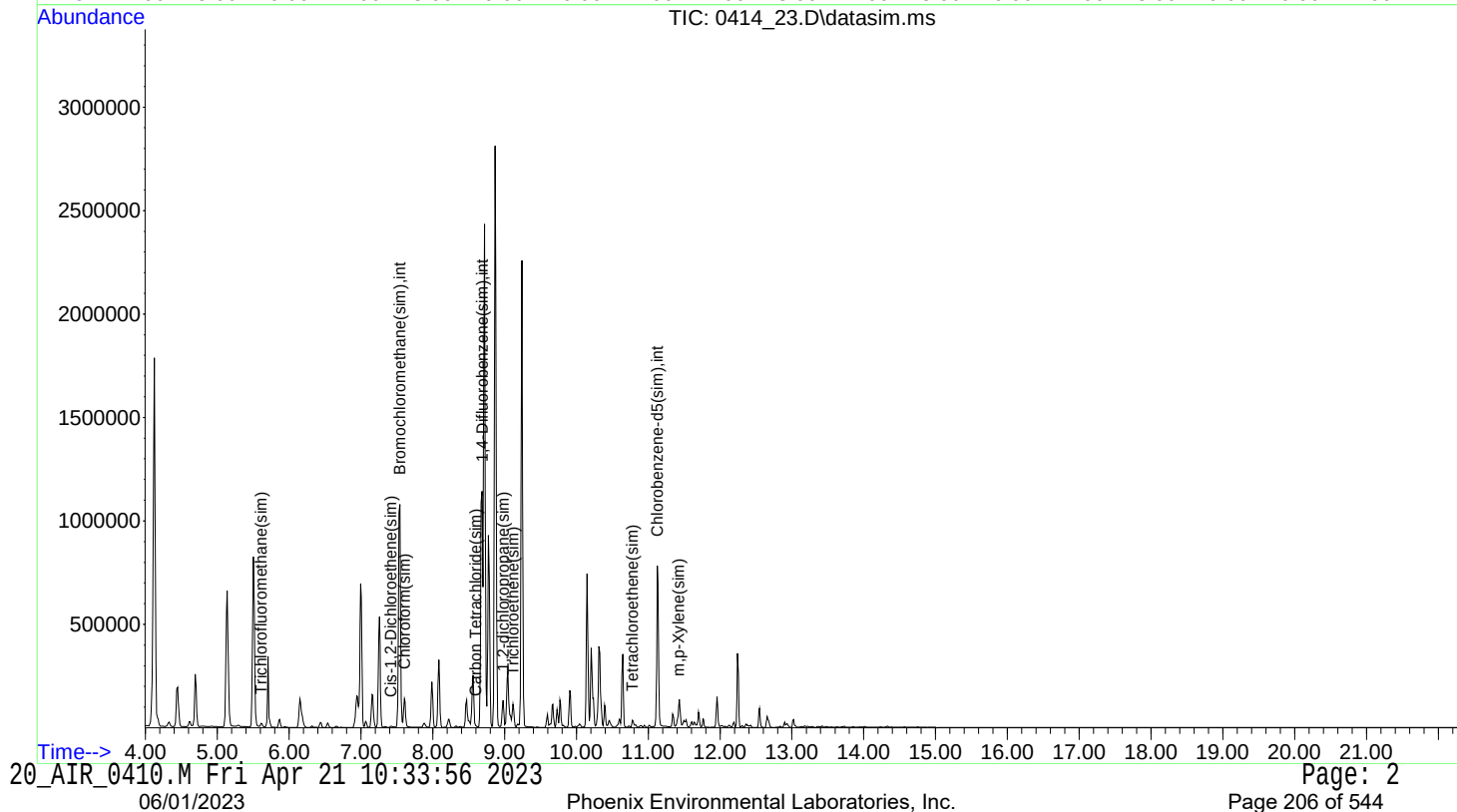
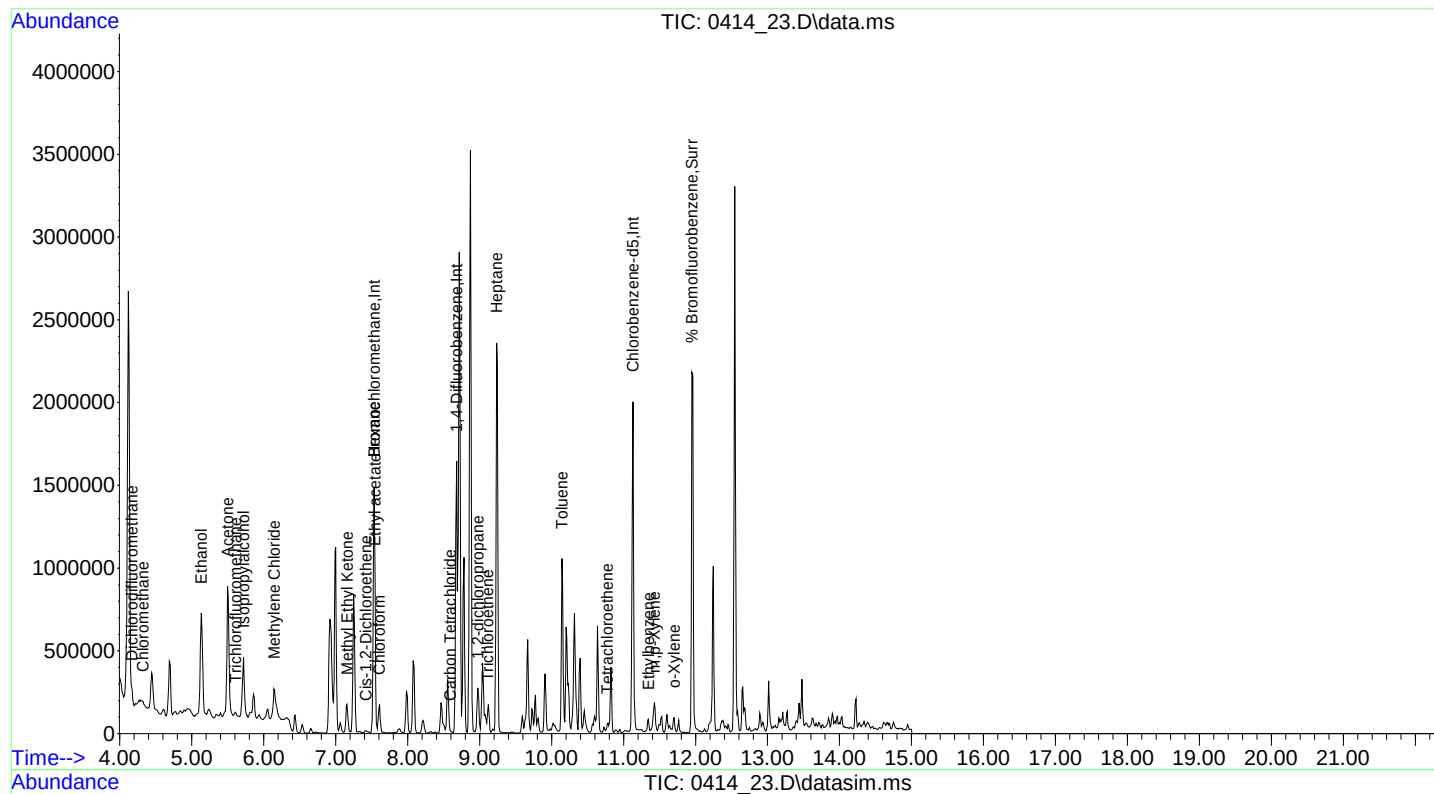
System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	678302	10.568	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	105.70%	

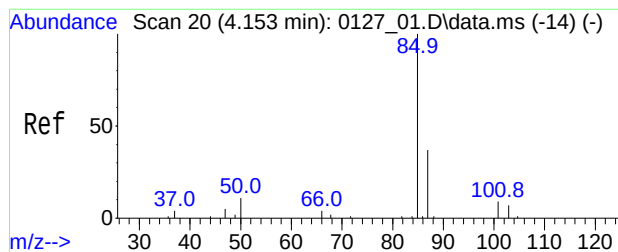
Target Compounds						Qvalue
3) Dichlorodifluoromethane	4.171	85	33448	0.502	ppbv	95
4) Chloromethane	4.322	50	24597	0.689	ppbv	83
11) Ethanol	5.130	45	839679	65.205	ppbv#	80
12) Acetone	5.497	43	924718	14.261	ppbv	98
13) Trichlorofluoromethane	5.605	101	16317	0.229	ppbv	94
14) Isopropylalcohol	5.721	45	316172	5.443	ppbv#	97
17) Methylene Chloride	6.143	49	139344	2.847	ppbv	98
26) Methyl Ethyl Ketone	7.156	43	245979	2.485	ppbv	98
27) Cis-1,2-Dichloroethene	7.421	61	3664	0.074	ppbv	91
28) Hexane	7.535	57	191726	3.178	ppbv	97
29) Chloroform	7.608	83	106033	1.775	ppbv	96
30) Ethyl acetate	7.546	61	7278	0.485	ppbv	97
35) Carbon Tetrachloride	8.589	117	4879	0.080	ppbv	91
38) 1,2-dichloropropane	8.974	63	81617	2.030	ppbv	99
40) Trichloroethene	9.110	130	2645	0.062	ppbv	94
44) Heptane	9.234	43	1189065	13.351	ppbv	92
49) Toluene	10.143	91	565456	5.217	ppbv	98
53) Tetrachloroethene	10.774	166	14686	0.253	ppbv	94
57) Ethylbenzene	11.345	91	46336	0.347	ppbv	100
58) m,p-Xylene	11.427	91	98031	0.981	ppbv	96
62) o-Xylene	11.704	91	44074	0.411	ppbv	98
85) Trichlorofluoromethane...	5.610	101	17369	0.238	ppbv#	96
89) Carbon Tetrachloride(sim)	8.595	117	4552	0.076	ppbv	99
94) Cis-1,2-Dichloroethene...	7.421	61	3664	0.066	ppbv	91
95) Chloroform(sim)	7.603	83	112313	1.748	ppbv	99
97) 1,2-dichloropropane(sim)	8.979	63	88184	1.860	ppbv	98
99) Trichloroethene(sim)	9.115	130	3052	0.059	ppbv	96
105) Tetrachloroethene(sim)	10.780	166	16720	0.220	ppbv	96
108) m,p-Xylene(sim)	11.427	91	100679	0.895	ppbv	96

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0414_23.D
Acq On : 14 Apr 2023 10:23 pm
Operator :
Client ID : IA-5
Lab ID : CN84188
ALS Vial : 20 Sample Multiplier: 1

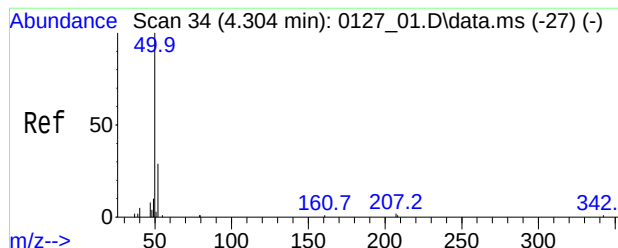
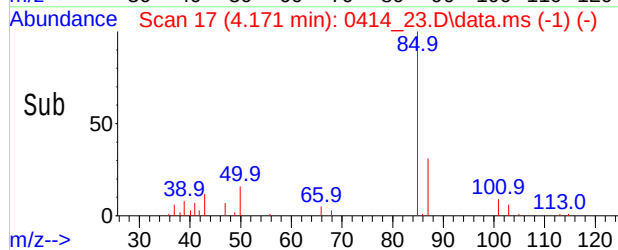
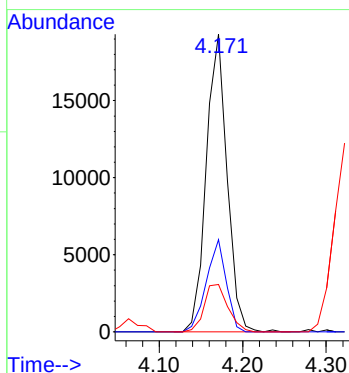
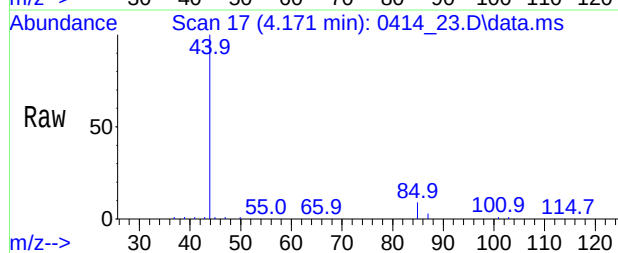
Quant Time: Apr 16 19:05:34 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration





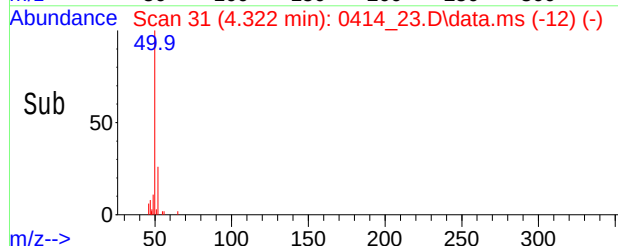
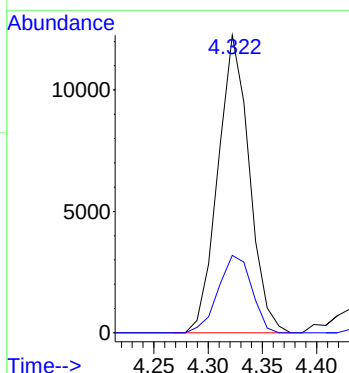
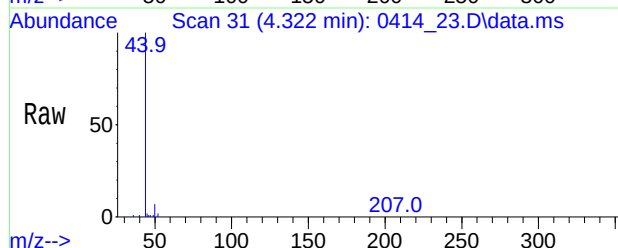
#3
Dichlorodifluoromethane
Conc: 8\$ 0.502 ppbv
RT: 4.171 min Scan# 17
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

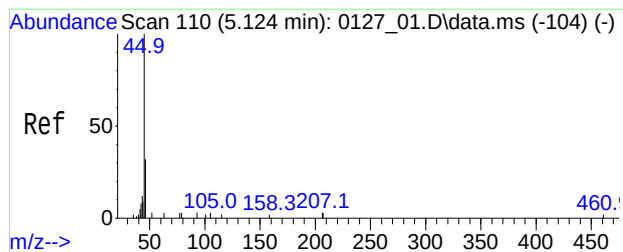
Tgt Ion	Ratio	Lower	Upper
85	100		
87	29.7	25.1	37.7
50	18.3	18.1	27.1



#4
Chloromethane
Conc: 8\$ 0.689 ppbv
RT: 4.322 min Scan# 31
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

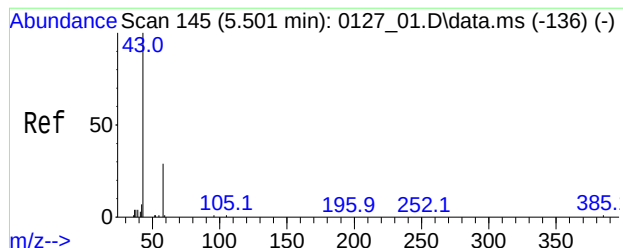
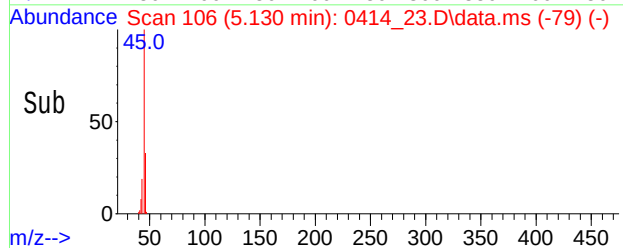
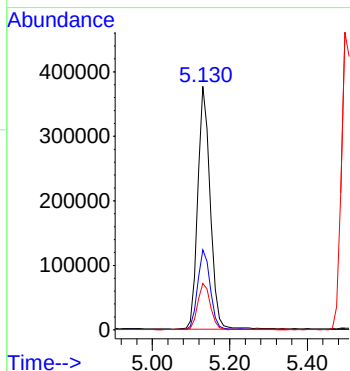
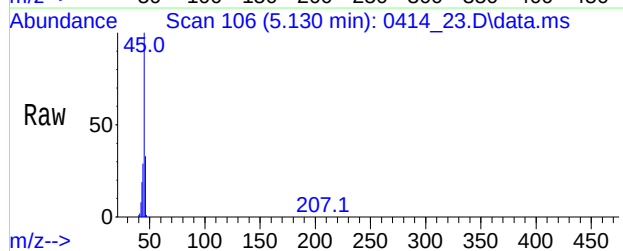
Tgt Ion	Ratio	Lower	Upper
50	100		
52	27.8	18.1	58.1





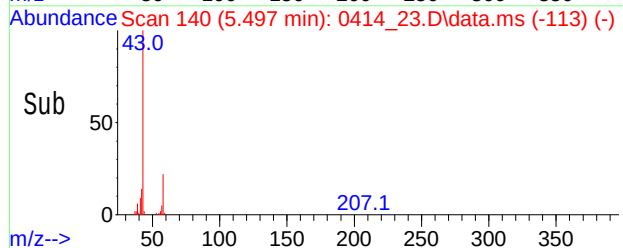
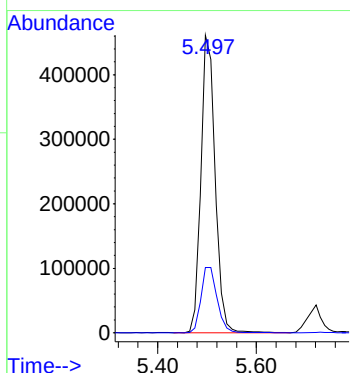
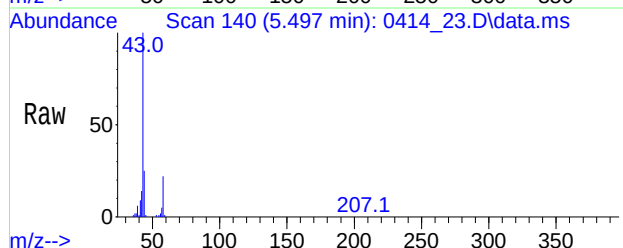
#11
Ethanol
Conc: 8\$ 65.205 ppbv
RT: 5.130 min Scan# 106
Delta R.T. -0.011 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

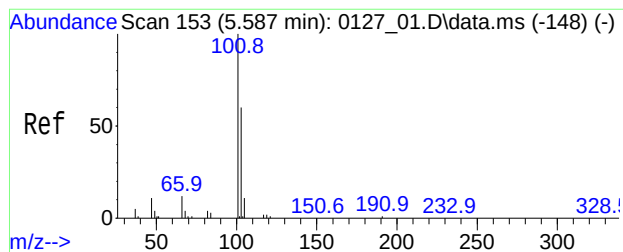
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.4	25.1	37.7
43	19.6	31.4	47.2#



#12
Acetone
Conc: 8\$ 14.261 ppbv
RT: 5.497 min Scan# 140
Delta R.T. -0.011 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

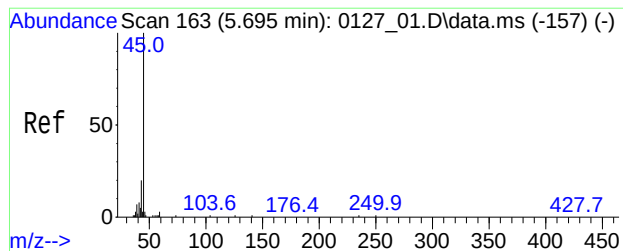
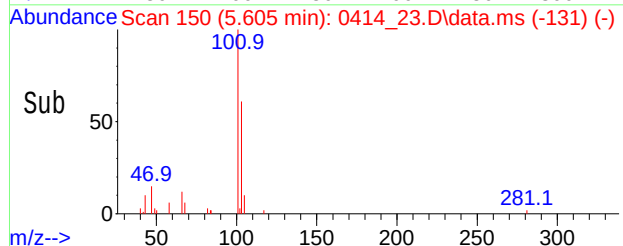
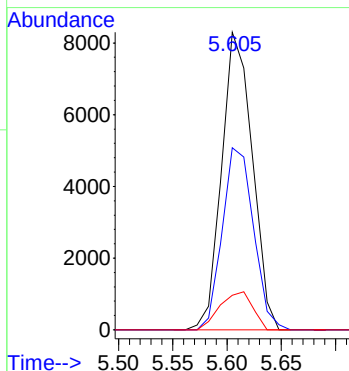
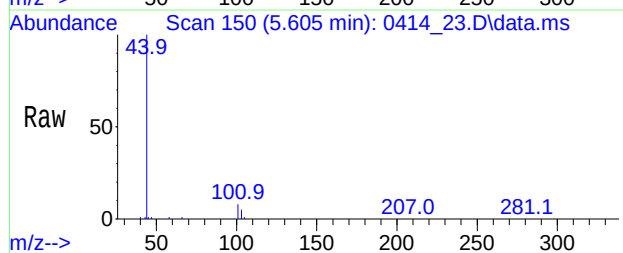
Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.7	20.6	30.8





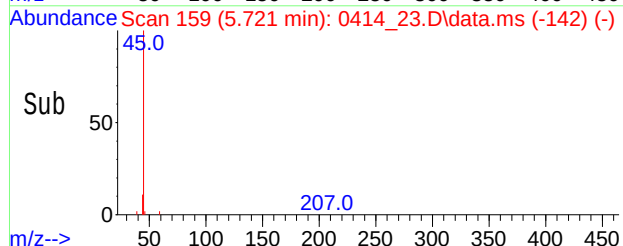
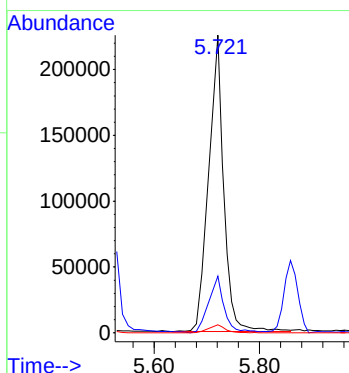
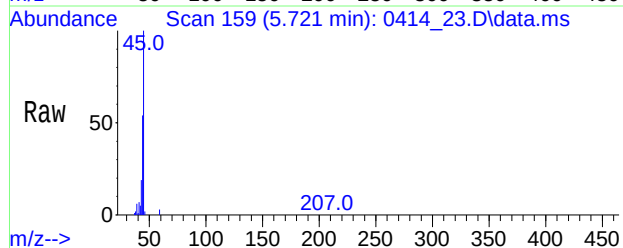
#13
Trichlorofluoromethane
Conc: 8\$ 0.229 ppbv
RT: 5.605 min Scan# 150
Delta R.T. -0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

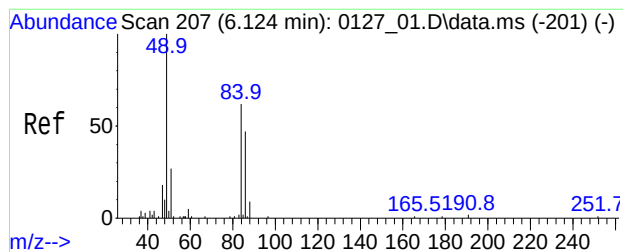
Tgt Ion:	101	Resp:	16317
Ion Ratio	Lower	Upper	
101	100		
103	62.3	53.8	80.8
66	13.7	12.9	19.3



#14
Isopropylalcohol
Conc: 8\$ 5.443 ppbv
RT: 5.721 min Scan# 159
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

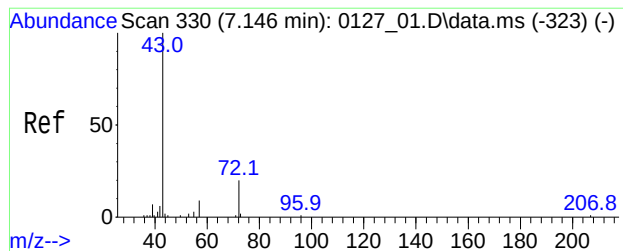
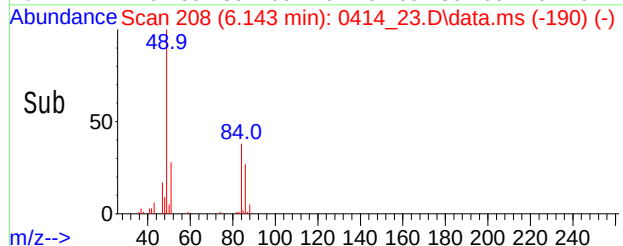
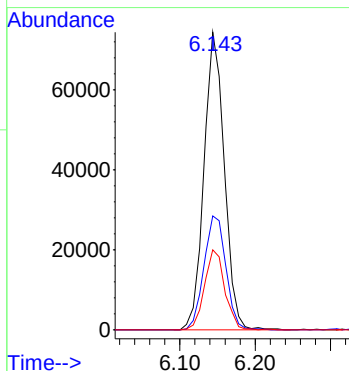
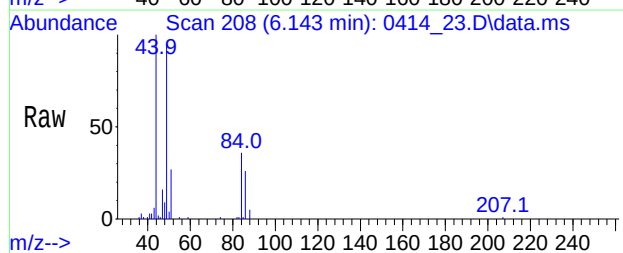
Tgt Ion:	45	Resp:	316172
Ion Ratio	Lower	Upper	
45	100		
43	21.4	15.9	23.9
59	3.3	3.6	5.4#





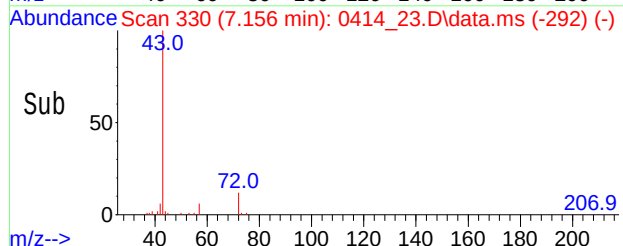
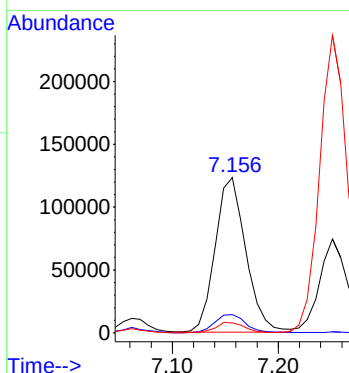
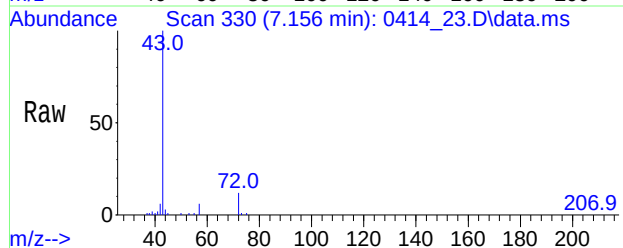
#17
Methylene Chloride
Conc: 8\$ 2.847 ppbv
RT: 6.143 min Scan# 208
Delta R.T. 0.008 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

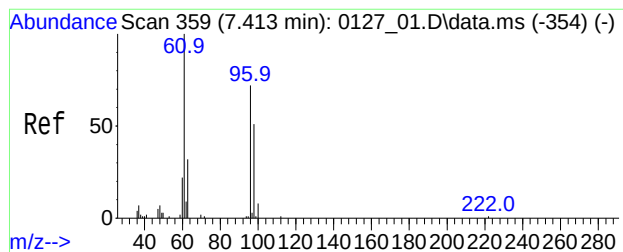
Tgt Ion: 49	Resp: 139344
Ion Ratio	Lower Upper
49 100	
84 41.4	34.0 51.0
86 26.8	20.7 31.1



#26
Methyl Ethyl Ketone
Conc: 8\$ 2.485 ppbv
RT: 7.156 min Scan# 330
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

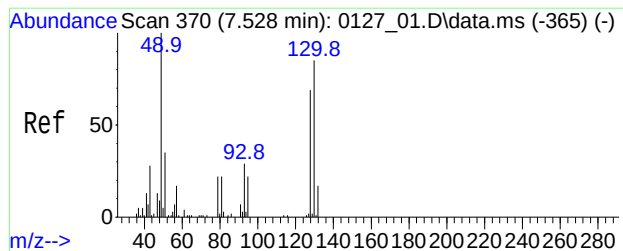
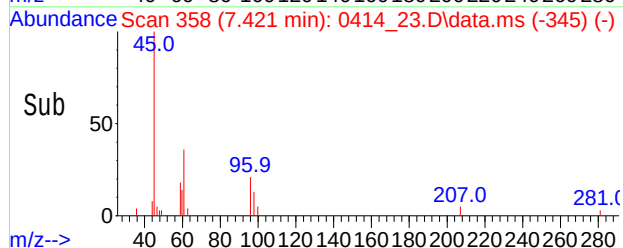
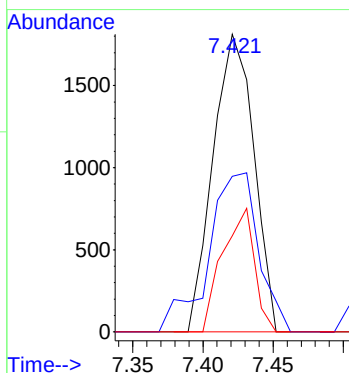
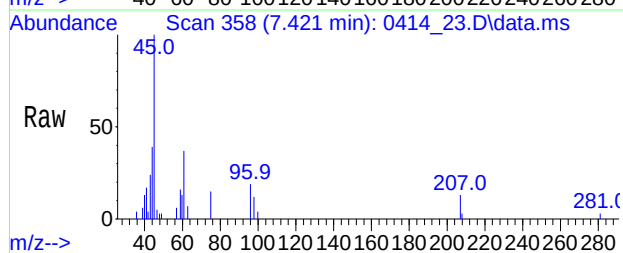
Tgt Ion: 43	Resp: 245979
Ion Ratio	Lower Upper
43 100	
72 12.1	10.2 15.4
57 6.4	6.1 9.1





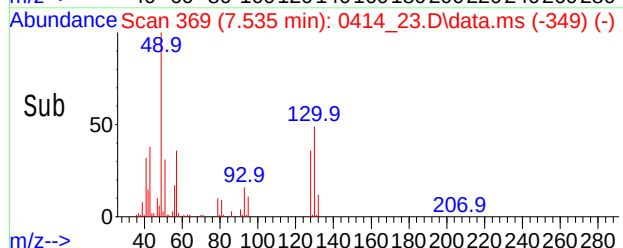
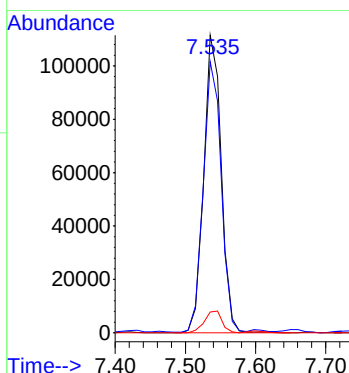
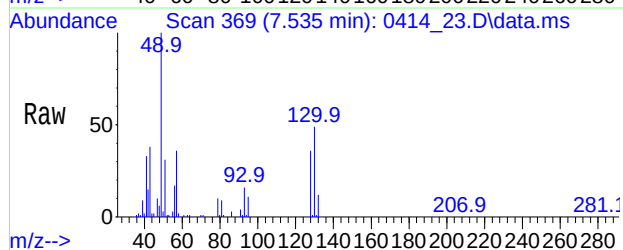
#27
Cis-1,2-Dichloroethene
Conc: 8\$ Below Cal
RT: 7.421 min Scan# 358
Delta R.T. -0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

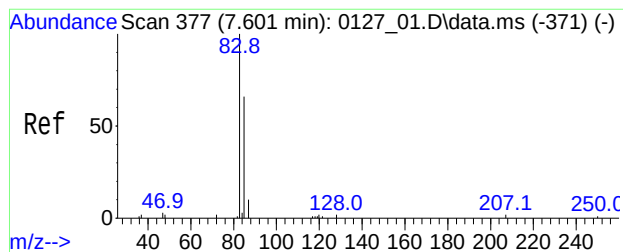
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	3664		
96	65.9	47.8	71.8	
98	32.6	30.7	46.1	



#28
Hexane
Conc: 8\$ 3.178 ppbv
RT: 7.535 min Scan# 369
Delta R.T. 0.010 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

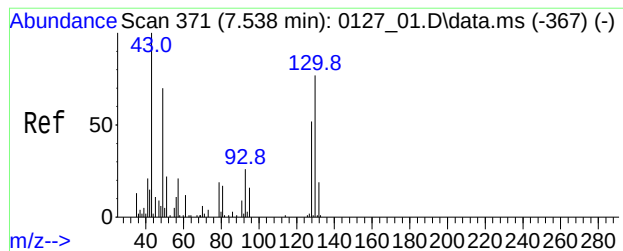
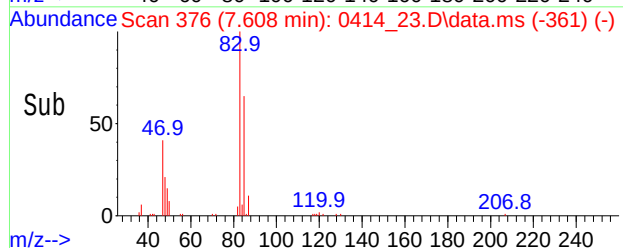
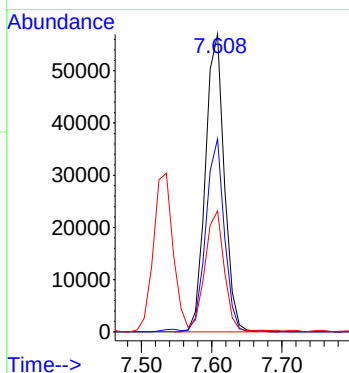
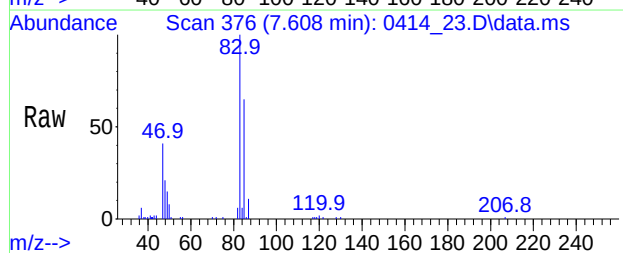
Tgt Ion	Ratio	Resp	Lower	Upper
57	100	191726		
41	93.3	72.3	108.5	
86	7.4	7.0	10.6	





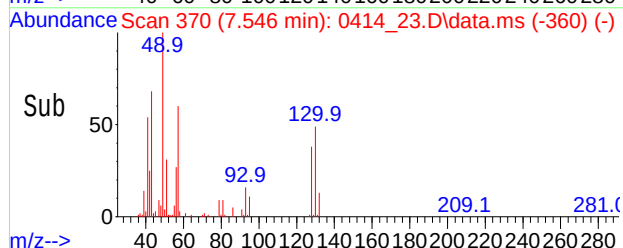
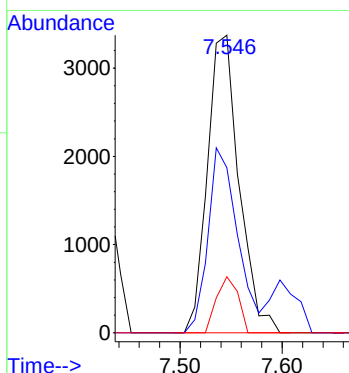
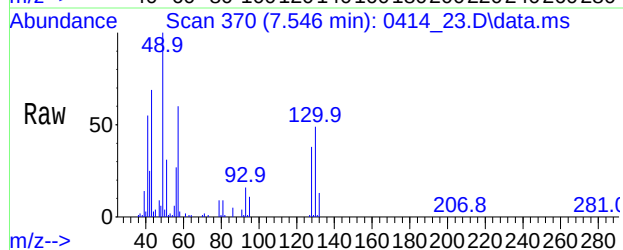
#29
Chloroform
Conc: 8\$ 1.775 ppbv
RT: 7.608 min Scan# 376
Delta R.T. 0.010 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

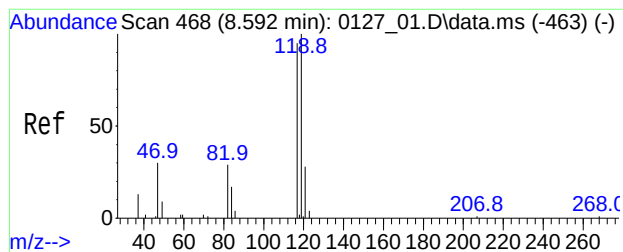
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	43.0	83.0
47	41.1	16.5	56.5



#30
Ethyl acetate
Conc: 8\$ 0.485 ppbv
RT: 7.546 min Scan# 370
Delta R.T. -0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

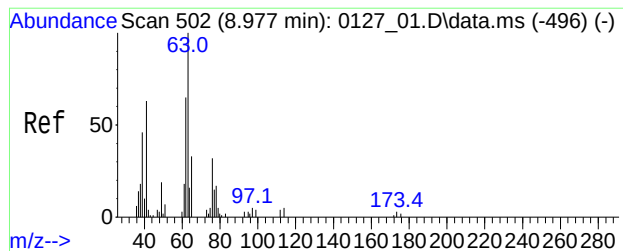
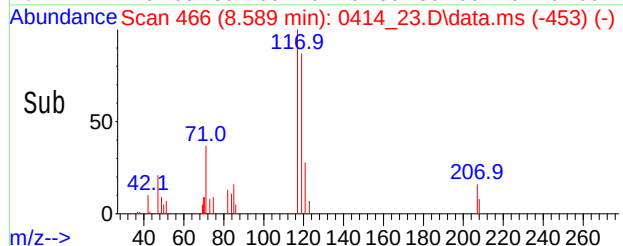
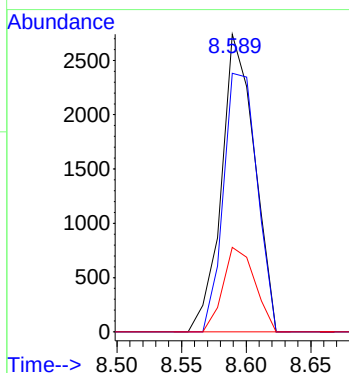
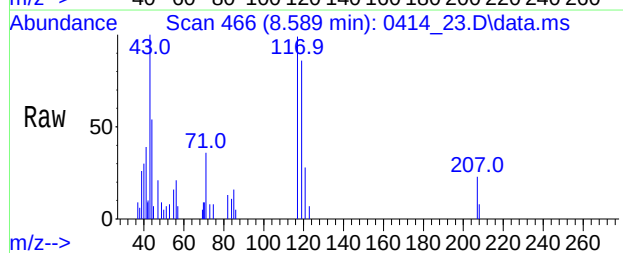
Tgt Ion	Ratio	Lower	Upper
61	100		
70	58.0	45.0	67.6
88	12.9	12.6	19.0





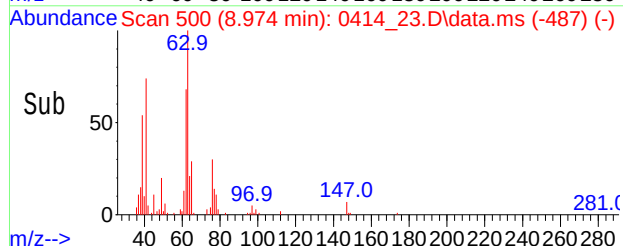
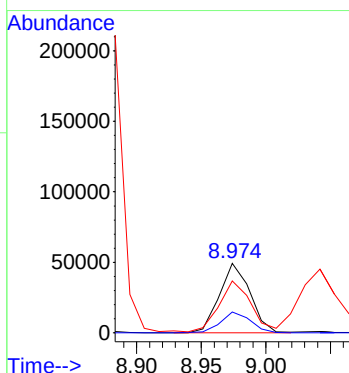
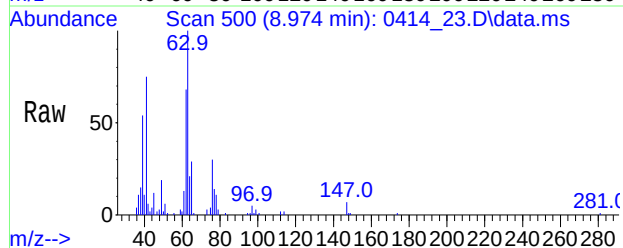
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.589 min Scan# 466
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

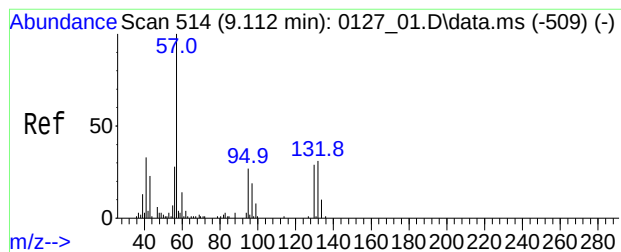
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4879		
119	88.4	77.5	117.5	
121	27.5	12.4	52.4	



#38
1,2-dichloropropane
Conc: 8\$ 2.030 ppbv
RT: 8.974 min Scan# 500
Delta R.T. -0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

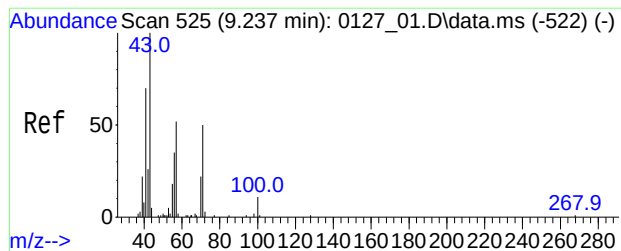
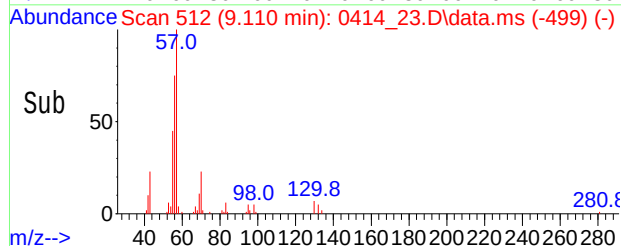
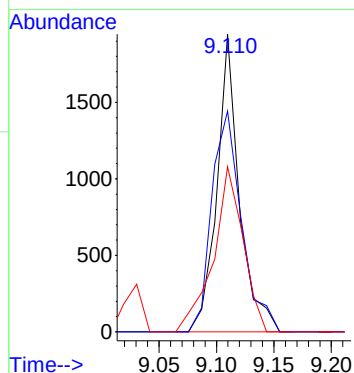
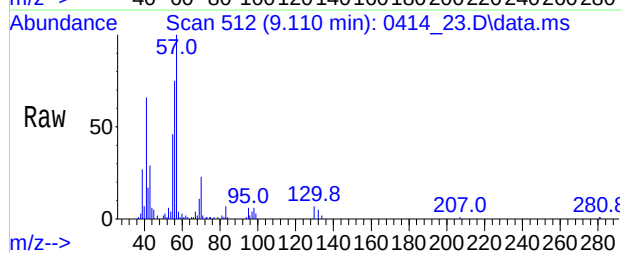
Tgt Ion	Ratio	Resp	Lower	Upper
63	100	81617		
76	29.2	25.2	37.8	
41	75.8	60.7	91.1	





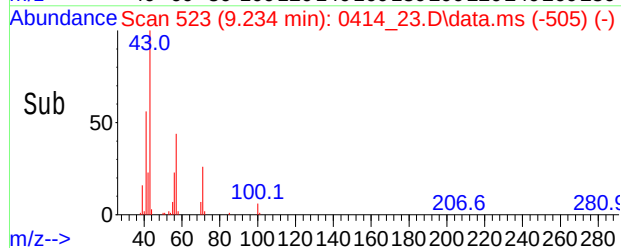
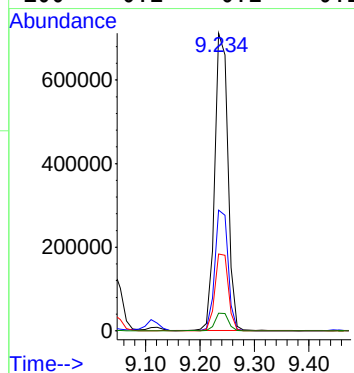
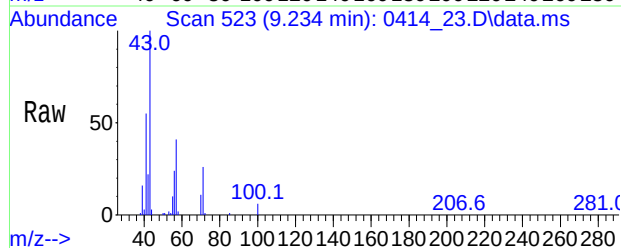
#40
Trichloroethene
Conc: 8\$ Below Cal
RT: 9.110 min Scan# 512
Delta R.T. -0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

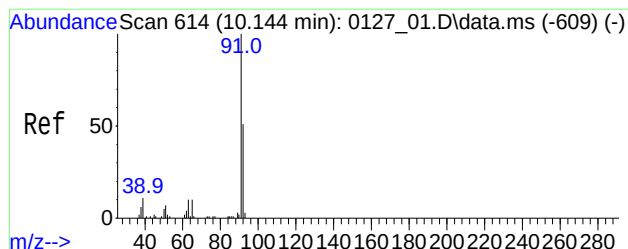
Tgt Ion	130	Resp	2645
Ratio	100	Lower	Upper
132	98.5	77.3	115.9
97	73.6	50.8	76.2



#44
Heptane
Conc: 8\$ 13.351 ppbv
RT: 9.234 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

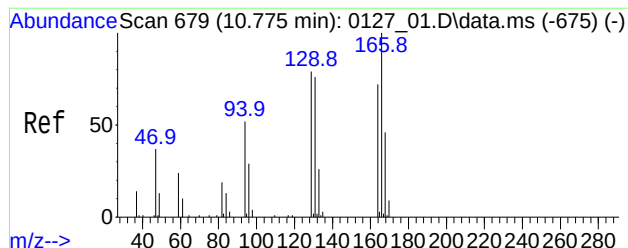
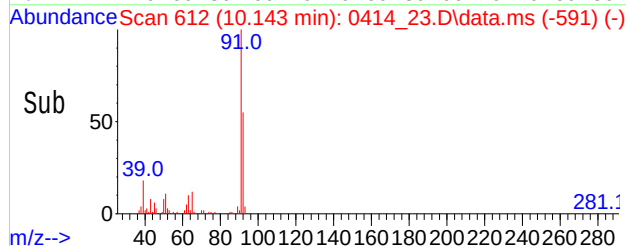
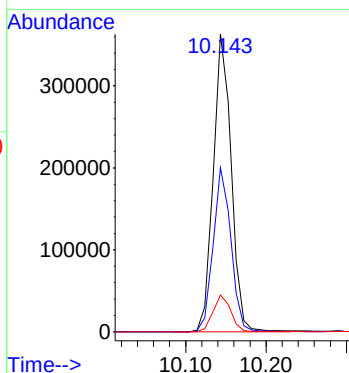
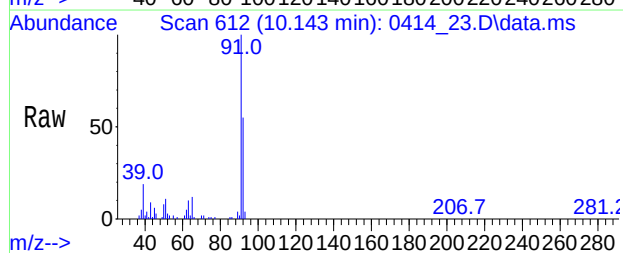
Tgt Ion	43	Resp	1189065
Ratio	100	Lower	Upper
57	41.0	37.9	56.9
71	26.4	24.4	36.6
100	6.2	6.2	9.2





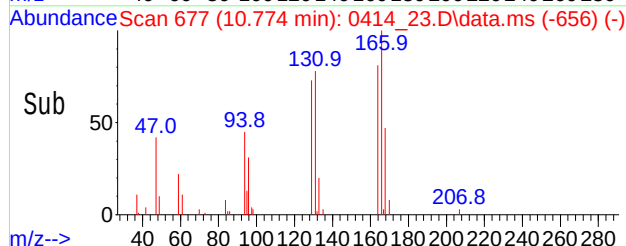
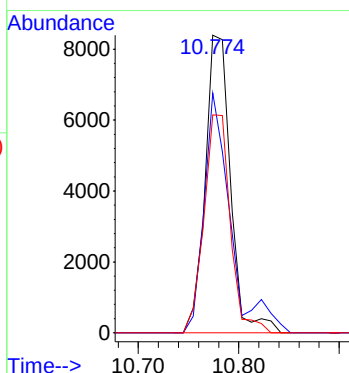
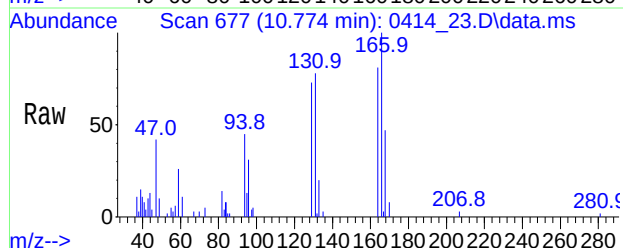
#49
Toluene
Conc: 8\$ 5.217 ppbv
RT: 10.143 min Scan# 612
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

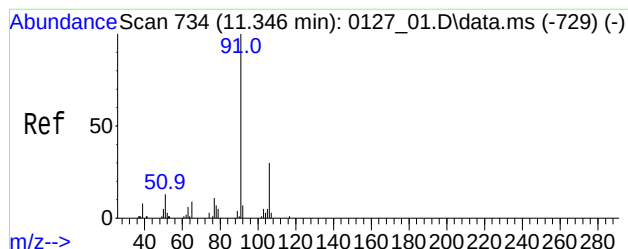
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	565456		
92	54.8		44.8	67.2
65	12.3		10.5	15.7



#53
Tetrachloroethene
Conc: 8\$ 0.253 ppbv
RT: 10.774 min Scan# 677
Delta R.T. -0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

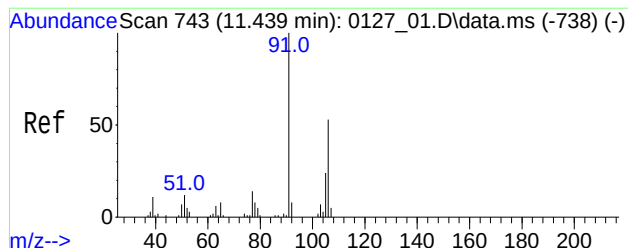
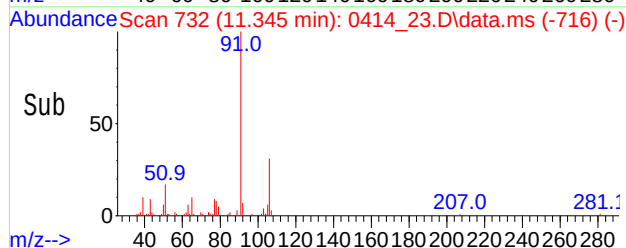
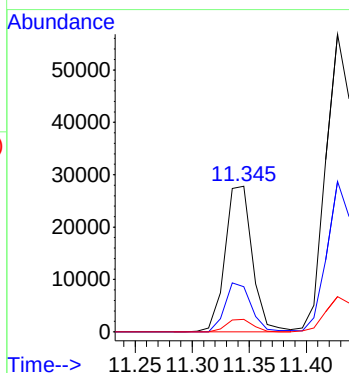
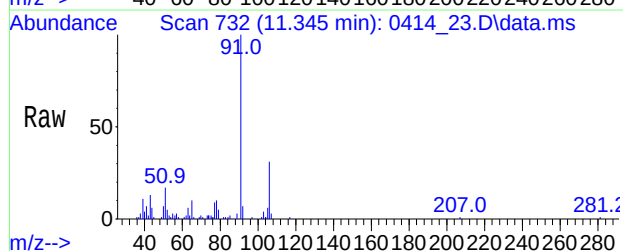
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	14686		
164	76.9		65.8	98.6
129	76.0		64.7	97.1





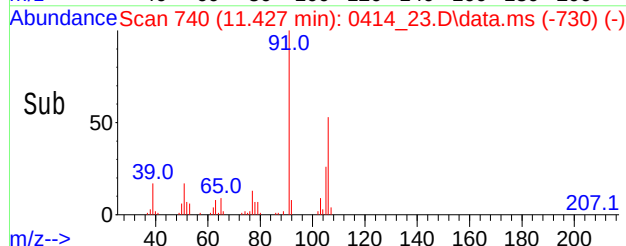
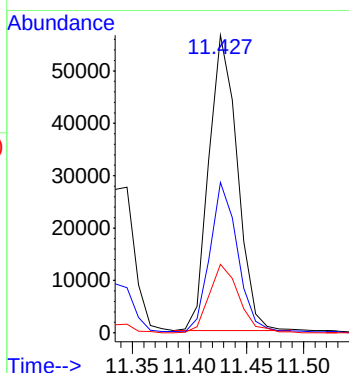
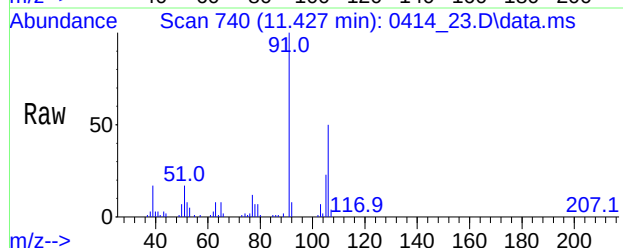
#57
Ethylbenzene
Conc: 8\$ 0.347 ppbv
RT: 11.345 min Scan# 732
Delta R.T. 0.010 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

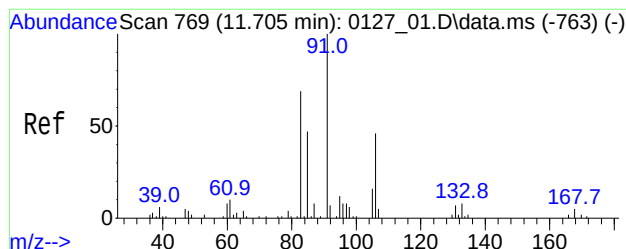
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.5	12.3	52.3
77	8.4	0.0	28.6



#58
m,p-Xylene
Conc: 8\$ 0.981 ppbv
RT: 11.427 min Scan# 740
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

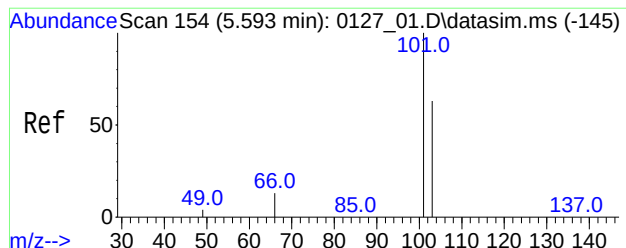
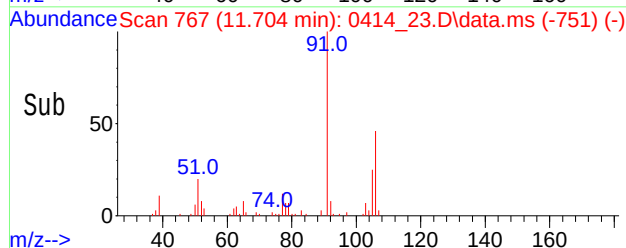
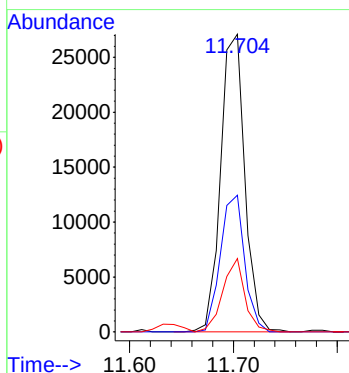
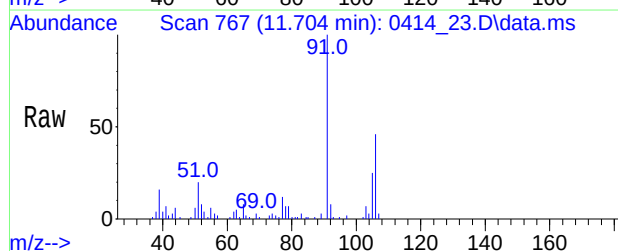
Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.4	41.4	62.2
105	24.3	19.8	29.8





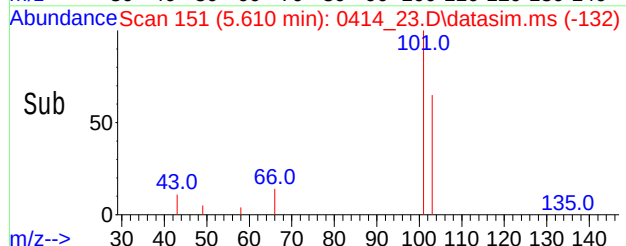
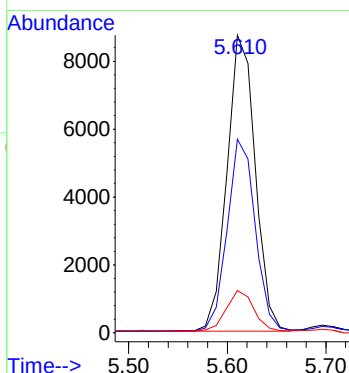
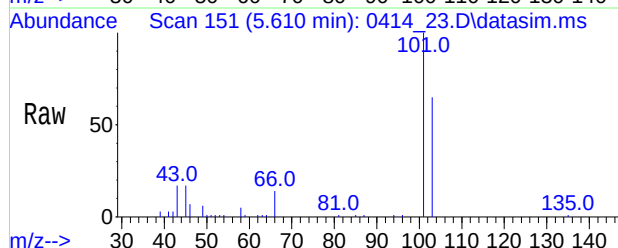
#62
o-Xylene
Conc: 8\$ 0.411 ppbv
RT: 11.704 min Scan# 767
Delta R.T. 0.010 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

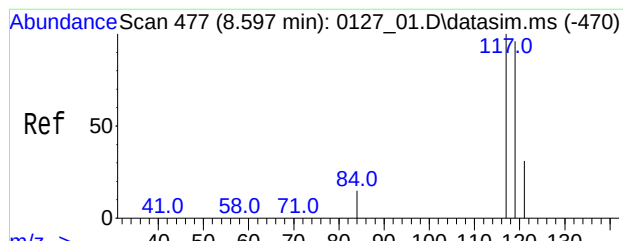
Tgt Ion	Ratio	Lower	Upper
91	100		
106	46.1	37.1	55.7
105	22.6	16.2	24.2



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.238 ppbv
RT: 5.610 min Scan# 151
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

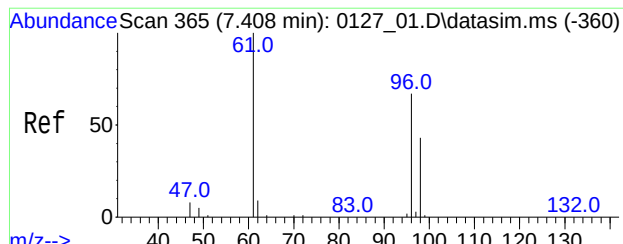
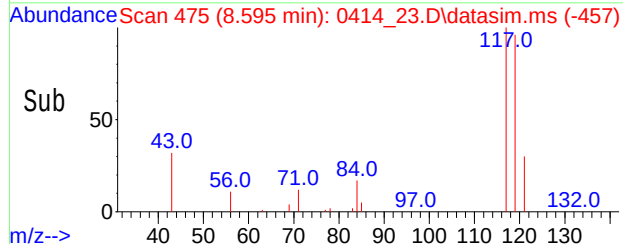
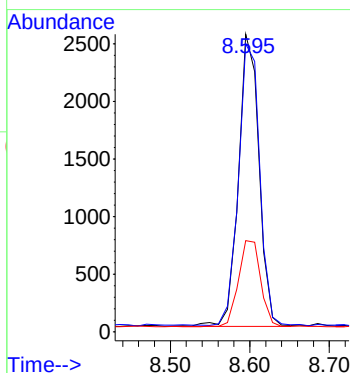
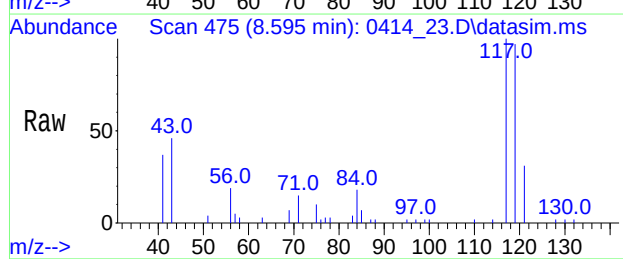
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.1	52.5	78.7
66	13.8	18.3	18.3#





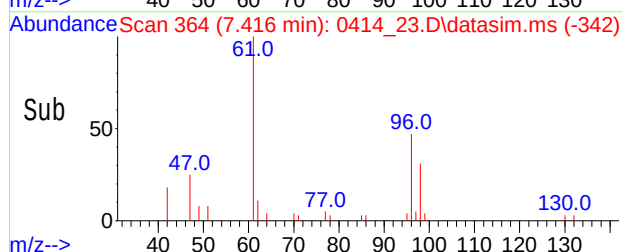
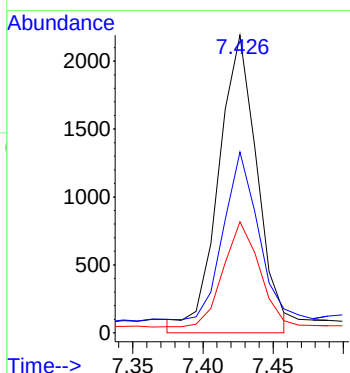
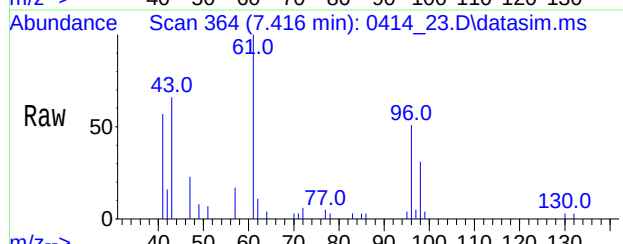
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.076 ppbv
RT: 8.595 min Scan# 475
Delta R.T. -0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

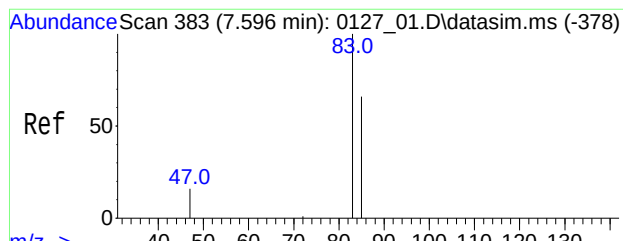
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4552		
119	100.1	79.2	118.8	
121	31.9	25.5	38.3	



#94
Cis-1,2-Dichloroethene(sim)
Conc: 8\$ 0.066 ppbv
RT: 7.421 min Scan# 364
Delta R.T. -0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

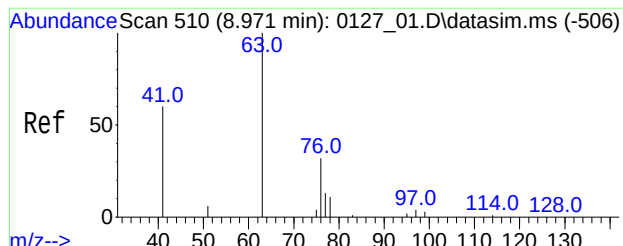
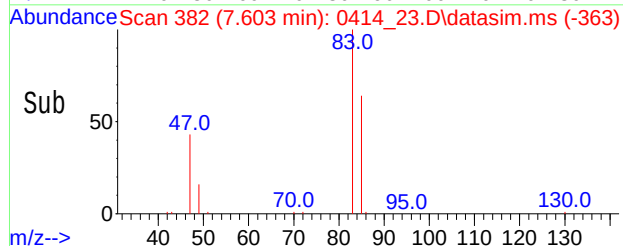
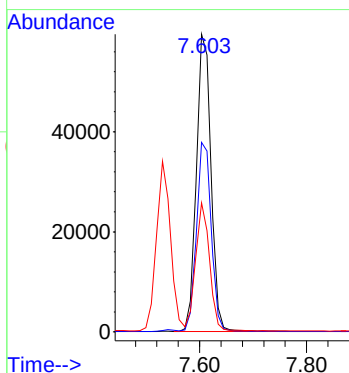
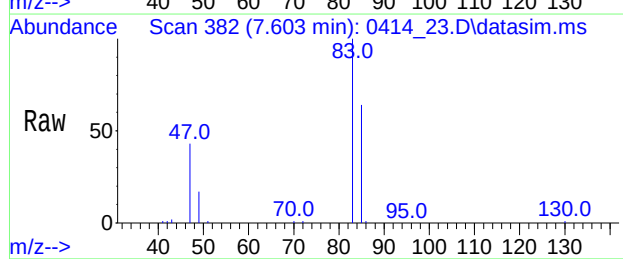
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	3664		
96	65.9	47.8	71.8	
98	32.6	30.7	46.1	





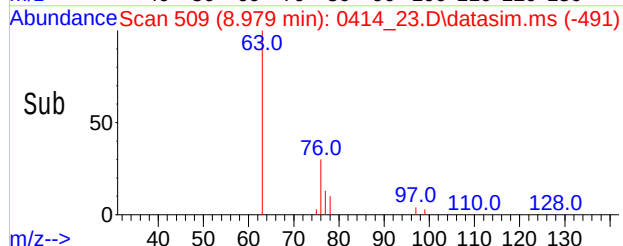
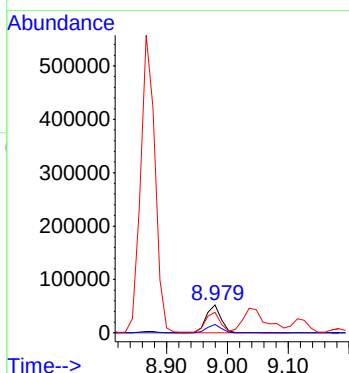
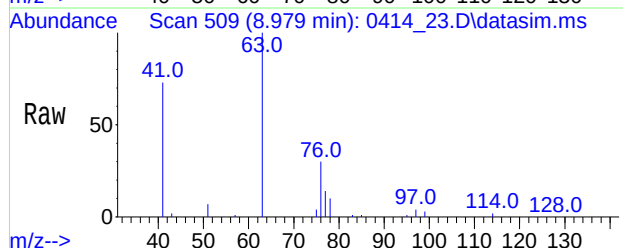
#95
Chloroform(sim)
Conc: 8\$ 1.748 ppbv
RT: 7.603 min Scan# 382
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

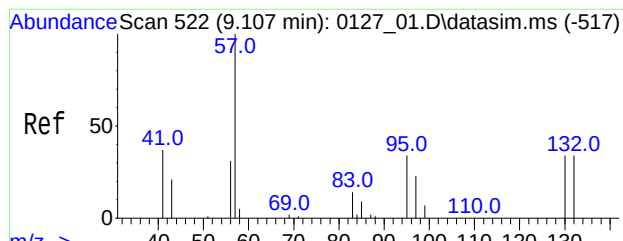
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.5	77.3
47	41.3	31.4	47.2



#97
1,2-dichloropropane(sim)
Conc: 8\$ 1.860 ppbv
RT: 8.979 min Scan# 509
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

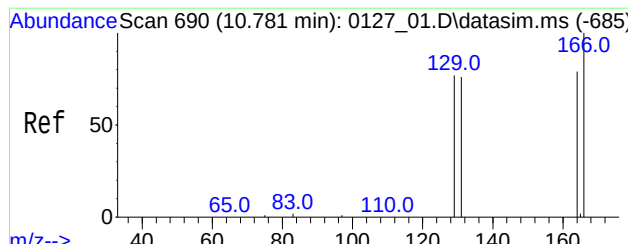
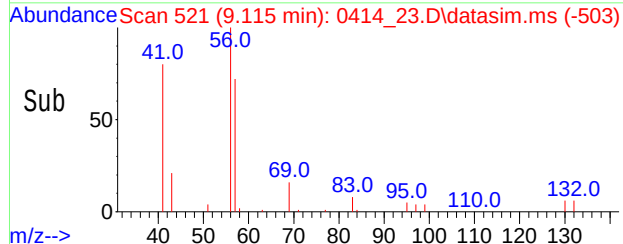
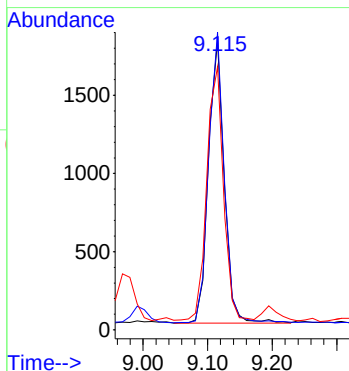
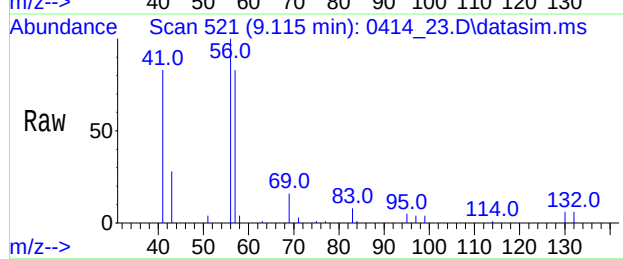
Tgt Ion	Ratio	Lower	Upper
63	100		
76	29.1	22.9	34.3
41	70.9	55.4	83.0





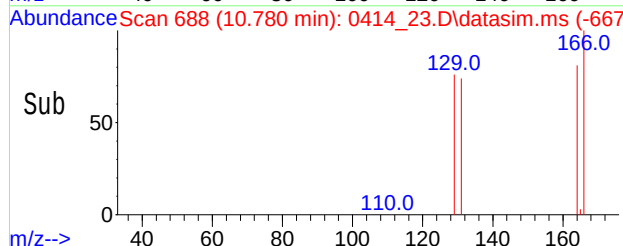
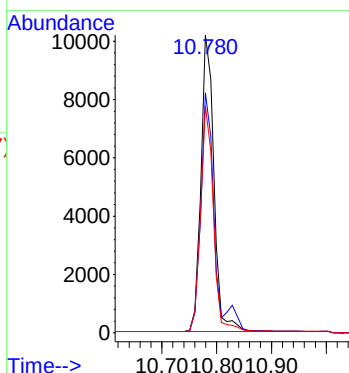
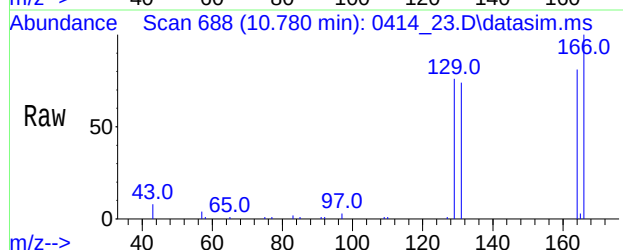
#99
Trichloroethene(sim)
Conc: 8\$ 0.059 ppbv
RT: 9.115 min Scan# 521
Delta R.T. 0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

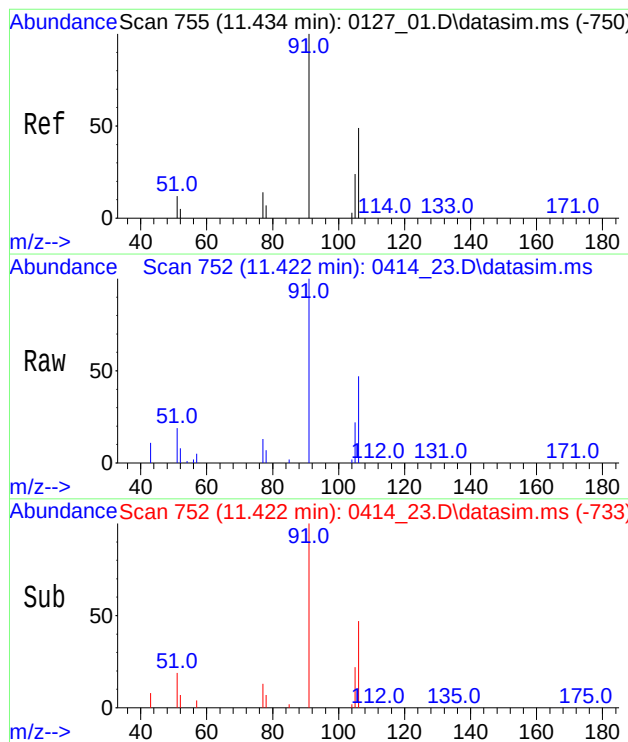
Tgt Ion	Ratio	Lower	Upper
130	100		
132	101.4	79.0	118.4
95	95.5	73.0	109.6



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.220 ppbv
RT: 10.780 min Scan# 688
Delta R.T. -0.000 min
Lab File: 0414_23.D
Acq: 14 Apr 2023 10:23 pm

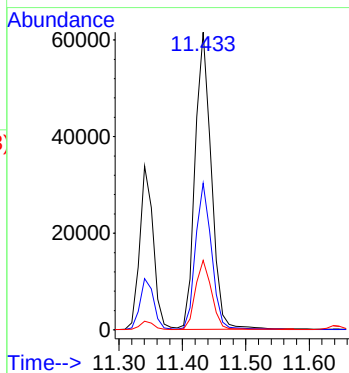
Tgt Ion	Ratio	Lower	Upper
166	100		
164	84.4	58.6	98.6
129	74.4	53.3	93.3





#108
 m,p-Xylene(sim)
 Conc: 8\$ 0.895 ppbv
 RT: 11.427 min Scan# 752
 Delta R.T. 0.000 min
 Lab File: 0414_23.D
 Acq: 14 Apr 2023 10:23 pm

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	100679		
106	49.6		47.5	58.1
105	23.4		19.4	29.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN84181 Lab Sample ID: CN84189

Canister: 13644 Lab File ID: 0414_24.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/14/23

Purge Volume 200 (cc) Date Analyzed: 04/14/23

Matrix: AIR Dilution Factor: 1

IA-55

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.483		0.202	0.202	r
74-87-3	Chloromethane	0.706		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	65.3	ES	0.531	0.531	r
67-64-1	Acetone	13.8	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.218		0.178	0.178	r
67-63-0	Isopropylalcohol	5.14	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	2.82	S	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	2.45		0.339	0.339	r
110-54-3	Hexane	3.14	S	0.284	0.284	r
67-66-3	Chloroform	1.75		0.205	0.205	r
141-78-6	Ethyl acetate	0.502		0.278	0.278	r
109-99-9	Tetrahydrofuran	0.411		0.339	0.339	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
78-87-5	1,2-dichloropropane	1.95		0.217	0.217	r
142-82-5	Heptane	13.0		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	4.94		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.261		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.334		0.230	0.230	r
179601-23-1	m,p-Xylene	0.913		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.391		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84189</u>
Canister:	<u>13644</u>	Lab File ID:	<u>0414_24.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/14/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.075		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.046		0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_24.D
 Acq On : 14 Apr 2023 10:57 pm
 Operator :
 Client ID : IA-55
 Lab ID : CN84189
 ALS Vial : 21 Sample Multiplier: 1

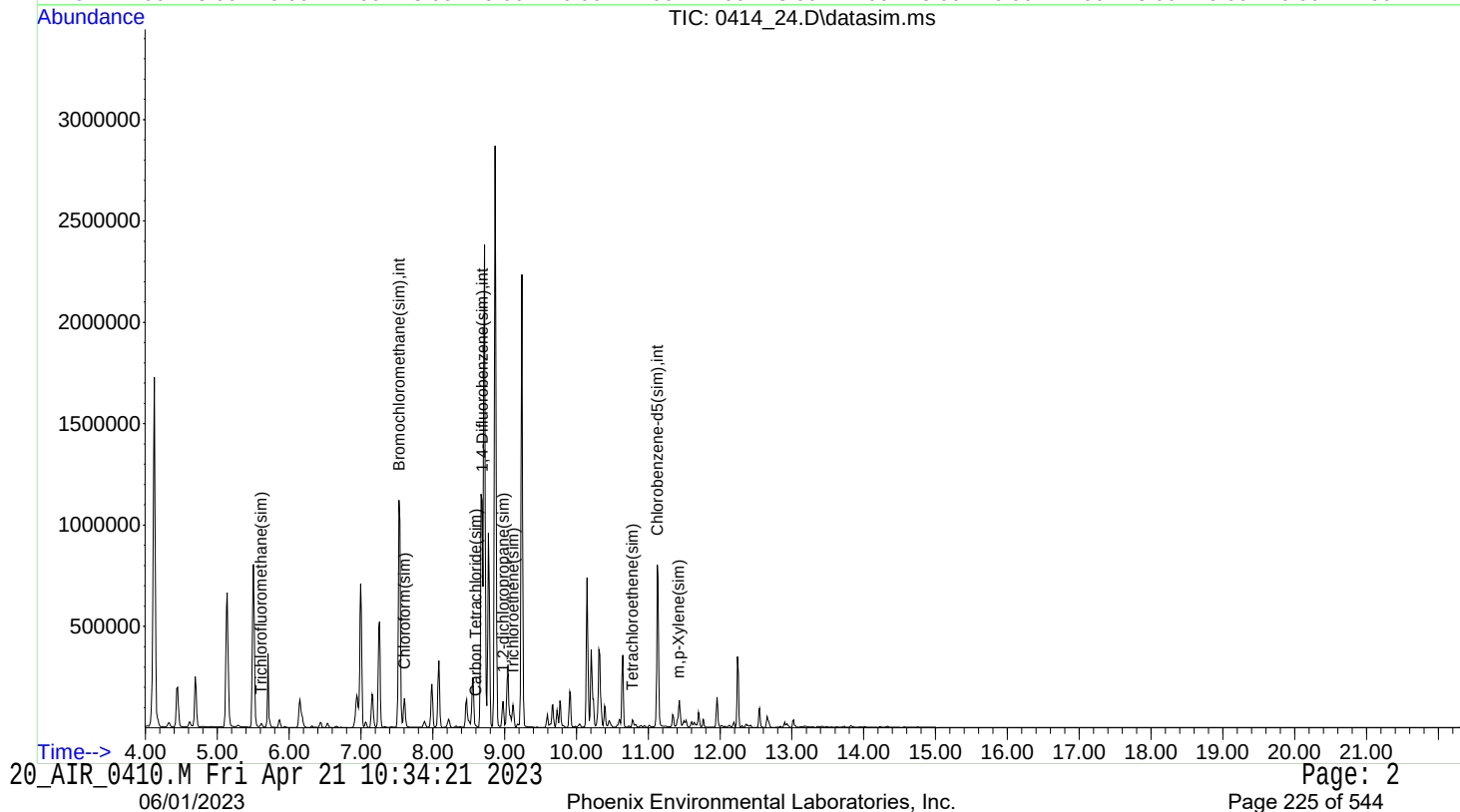
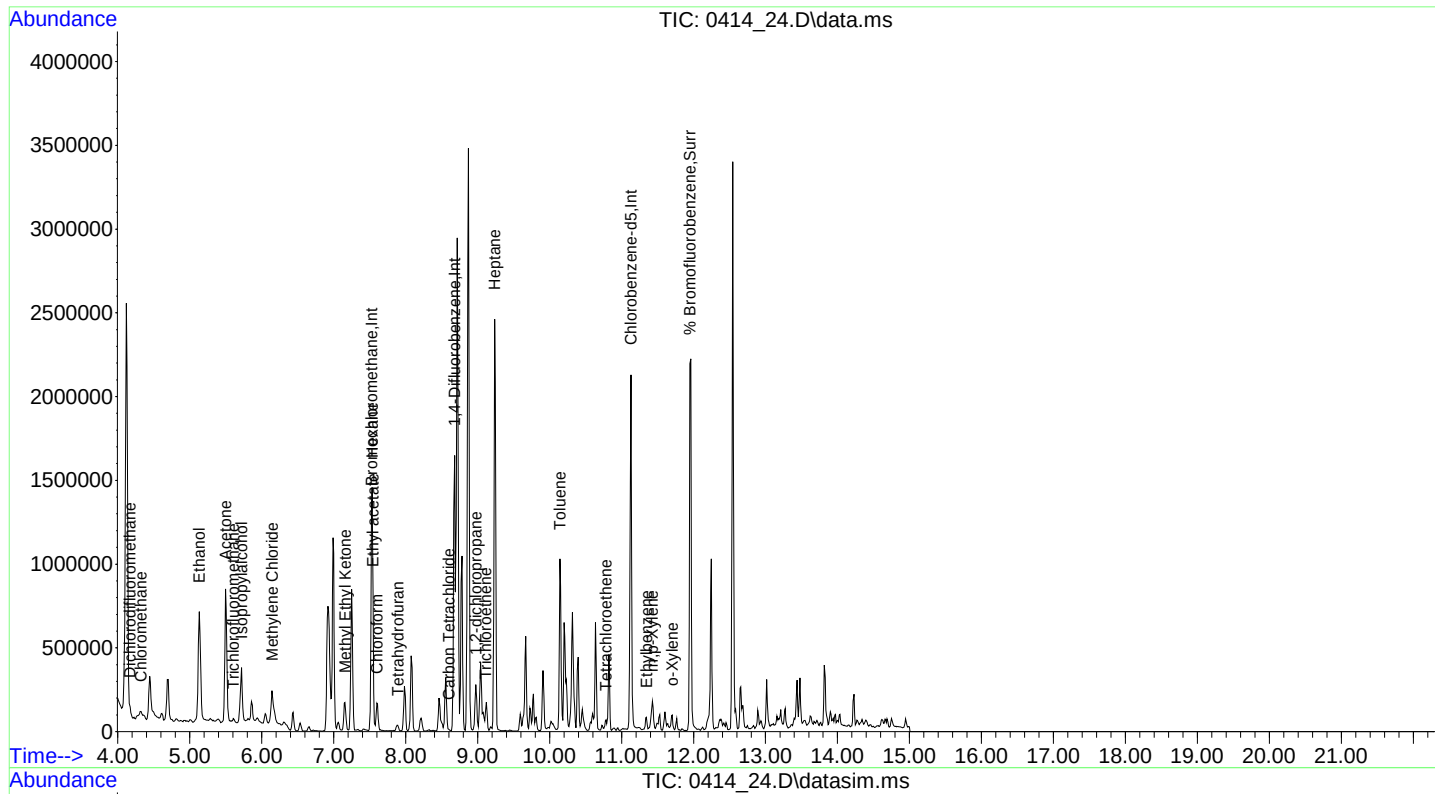
Quant Time: Apr 16 19:09:29 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

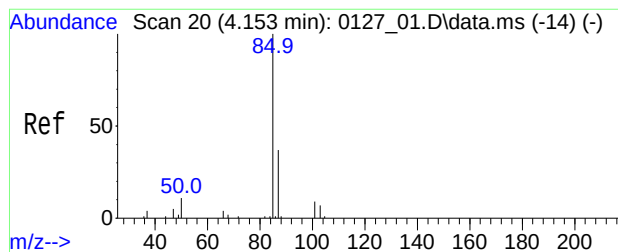
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	286094	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1050985	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	488517	10.000	ng	0.00
81) Bromochloromethane(sim)	7.530	130	315063	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1050985	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	488517	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	687158	10.300	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.00%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	4.171	85	32634	0.483	ppbv	96
4) Chloromethane	4.322	50	25525	0.706	ppbv	88
11) Ethanol	5.130	45	853012	65.346	ppbv#	80
12) Acetone	5.497	43	909393	13.835	ppbv	97
13) Trichlorofluoromethane	5.605	101	15774	0.218	ppbv	97
14) Isopropylalcohol	5.721	45	302521	5.138	ppbv#	98
17) Methylene Chloride	6.143	49	139720	2.816	ppbv	98
26) Methyl Ethyl Ketone	7.156	43	245595	2.447	ppbv	99
28) Hexane	7.535	57	191843	3.137	ppbv	98
29) Chloroform	7.598	83	106159	1.753	ppbv	96
30) Ethyl acetate	7.546	61	7646	0.502	ppbv	97
31) Tetrahydrofuran	7.889	42	23396	0.411	ppbv#	79
35) Carbon Tetrachloride	8.600	117	4252	0.068	ppbv	95
38) 1,2-dichloropropane	8.974	63	80478	1.954	ppbv	98
40) Trichloroethene	9.110	130	2022	0.047	ppbv#	74
44) Heptane	9.234	43	1181283	12.952	ppbv	91
49) Toluene	10.143	91	548452	4.941	ppbv	99
53) Tetrachloroethene	10.784	166	15529	0.261	ppbv	92
57) Ethylbenzene	11.345	91	46346	0.334	ppbv	99
58) m,p-Xylene	11.427	91	94811	0.913	ppbv	98
62) o-Xylene	11.704	91	43631	0.391	ppbv	98
85) Trichlorofluoromethane...	5.610	101	17190	0.230	ppbv#	97
89) Carbon Tetrachloride(sim)	8.595	117	4658	0.075	ppbv	98
95) Chloroform(sim)	7.603	83	111964	1.698	ppbv	99
97) 1,2-dichloropropane(sim)	8.979	63	87962	1.812	ppbv	98
99) Trichloroethene(sim)	9.115	130	2472	0.046	ppbv	98
105) Tetrachloroethene(sim)	10.779	166	17909	0.230	ppbv	96
108) m,p-Xylene(sim)	11.427	91	97974	0.838	ppbv	96

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0414_24.D
Acq On : 14 Apr 2023 10:57 pm
Operator :
Client ID : IA-55
Lab ID : CN84189
ALS Vial : 21 Sample Multiplier: 1

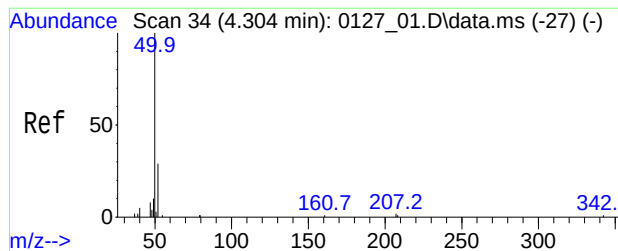
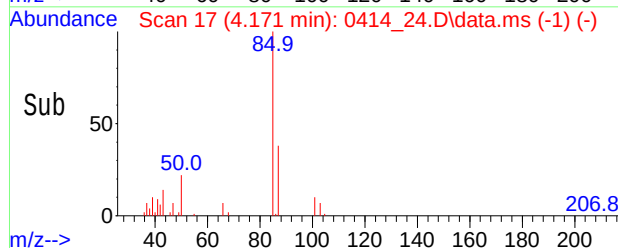
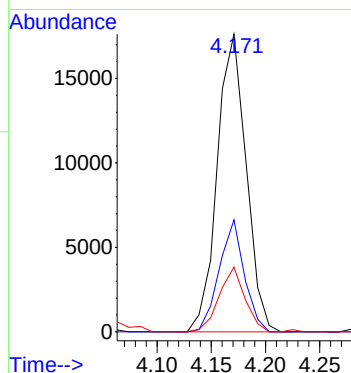
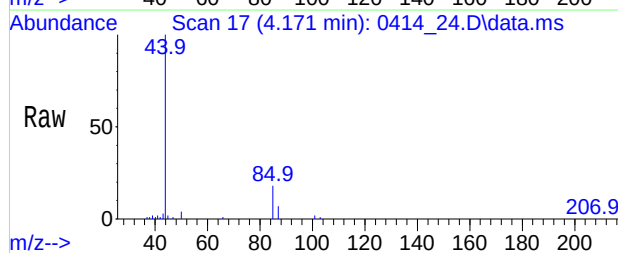
Quant Time: Apr 16 19:09:29 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration





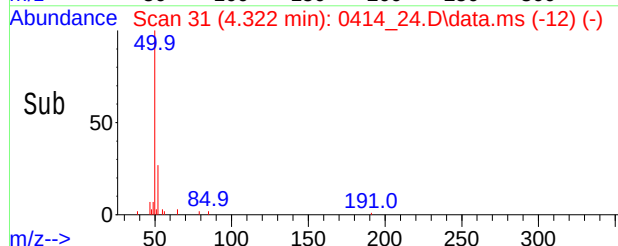
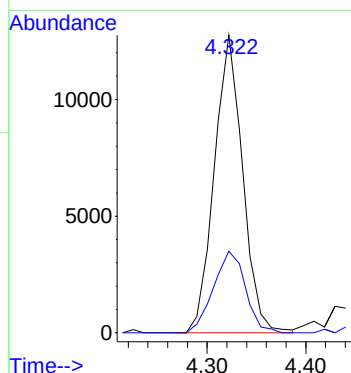
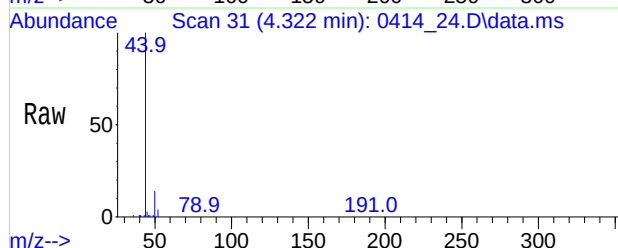
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.483 ppbv
 RT: 4.171 min Scan# 17
 Delta R.T. 0.000 min
 Lab File: 0414_24.D
 Acq: 14 Apr 2023 10:57 pm

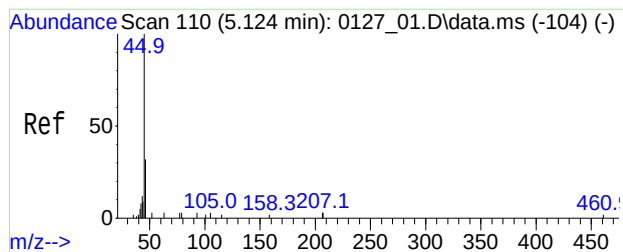
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.8	25.1	37.7
50	19.4	18.1	27.1



#4
 Chloromethane
 Conc: 8\$ 0.706 ppbv
 RT: 4.322 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: 0414_24.D
 Acq: 14 Apr 2023 10:57 pm

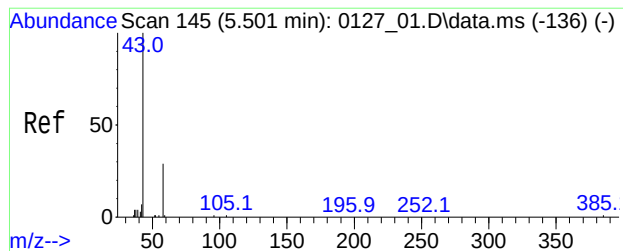
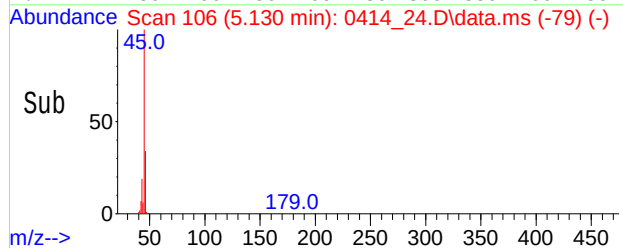
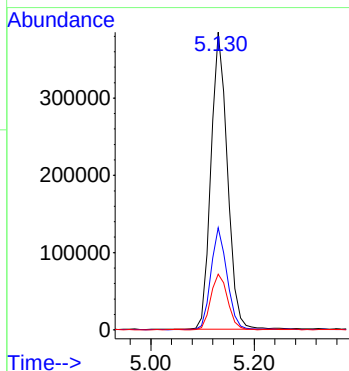
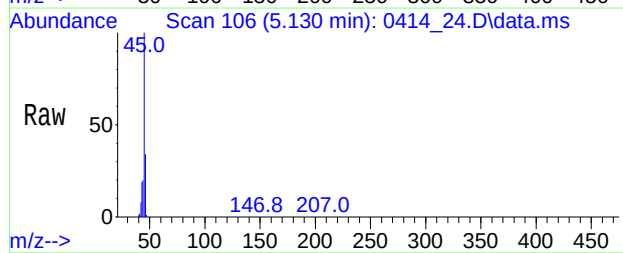
Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.9	18.1	58.1





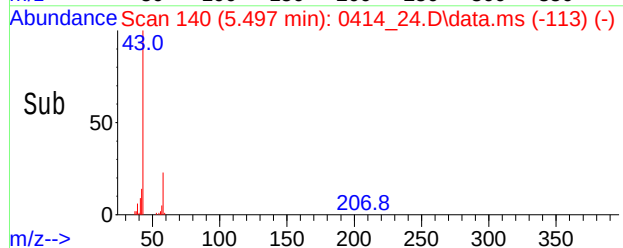
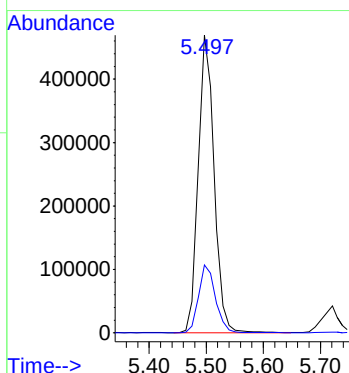
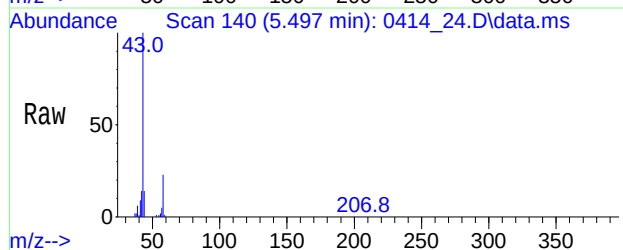
#11
Ethanol
Conc: 8\$ 65.346 ppbv
RT: 5.130 min Scan# 106
Delta R.T. -0.011 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

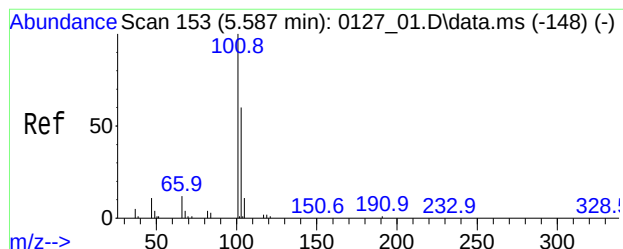
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.9	25.1	37.7
43	19.4	31.4	47.2#



#12
Acetone
Conc: 8\$ 13.835 ppbv
RT: 5.497 min Scan# 140
Delta R.T. -0.011 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

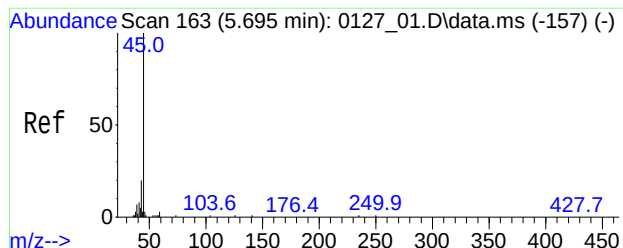
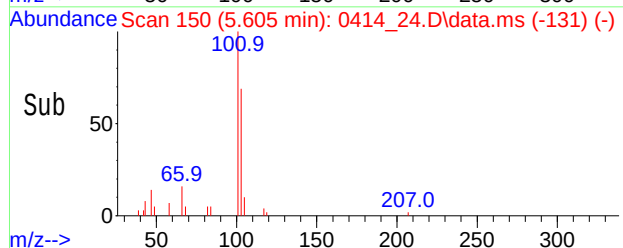
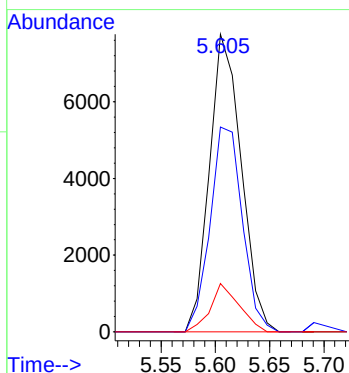
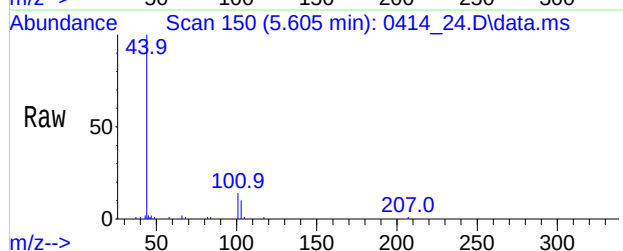
Tgt Ion	Ratio	Lower	Upper
43	100		
58	24.3	20.6	30.8





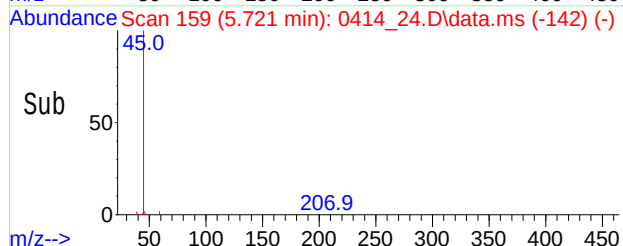
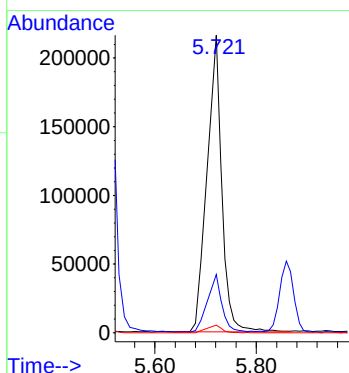
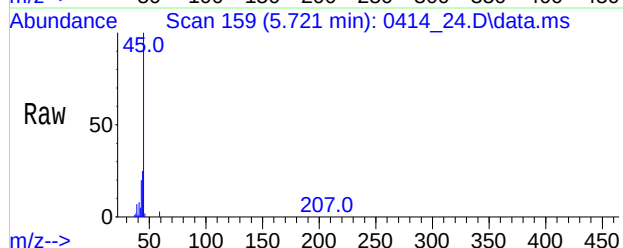
#13
Trichlorofluoromethane
Conc: 8\$ 0.218 ppbv
RT: 5.605 min Scan# 150
Delta R.T. -0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

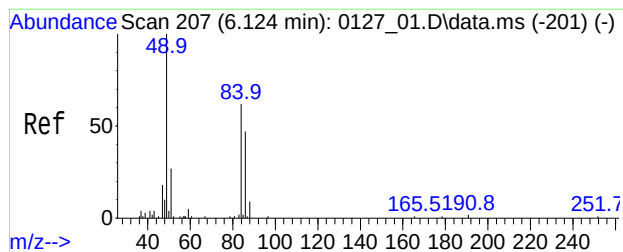
Tgt Ion:	101	Resp:	15774
Ion Ratio	Lower	Upper	
101	100		
103	70.0	53.8	80.8
66	14.7	12.9	19.3



#14
Isopropylalcohol
Conc: 8\$ 5.138 ppbv
RT: 5.721 min Scan# 159
Delta R.T. -0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

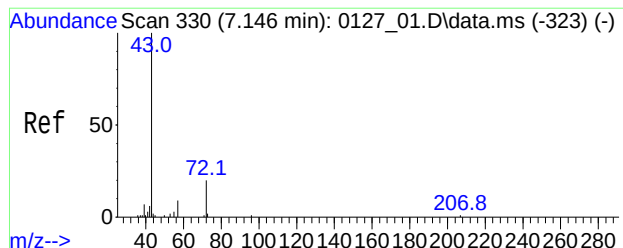
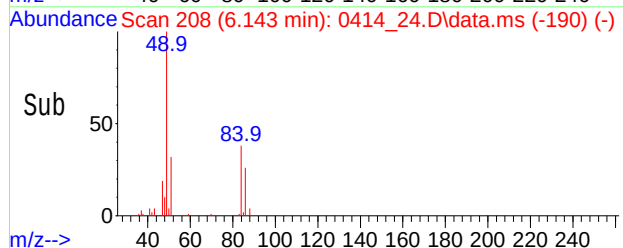
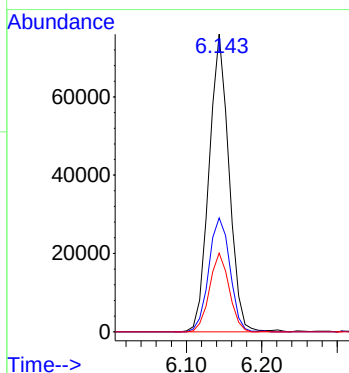
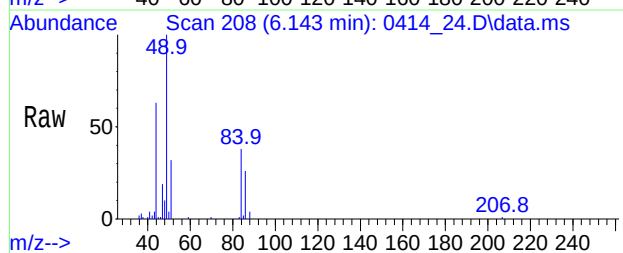
Tgt Ion:	45	Resp:	302521
Ion Ratio	Lower	Upper	
45	100		
43	20.6	15.9	23.9
59	2.9	3.6	5.4#





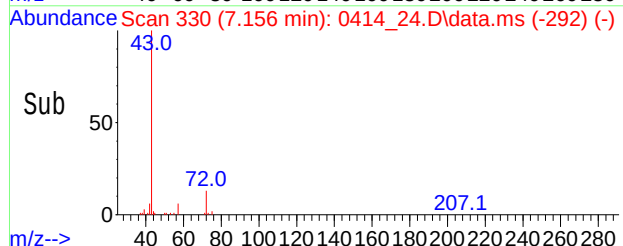
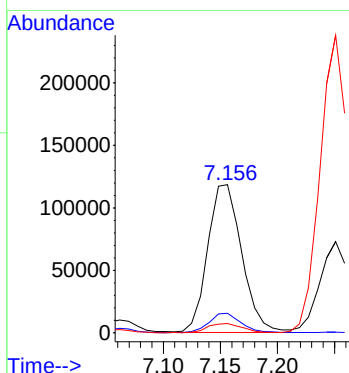
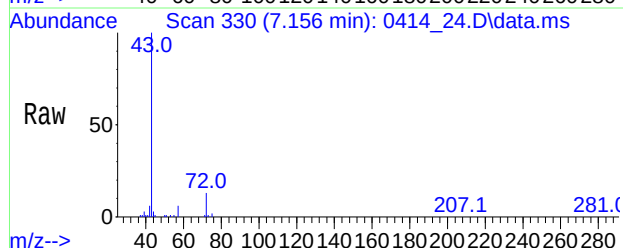
#17
Methylene Chloride
Conc: 8\$ 2.816 ppbv
RT: 6.143 min Scan# 208
Delta R.T. 0.008 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

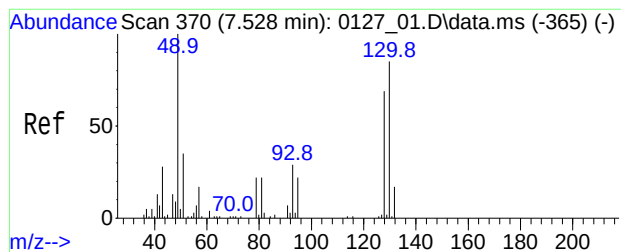
Tgt Ion	Ratio	Lower	Upper
49	100		
84	40.7	34.0	51.0
86	26.1	20.7	31.1



#26
Methyl Ethyl Ketone
Conc: 8\$ 2.447 ppbv
RT: 7.156 min Scan# 330
Delta R.T. 0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

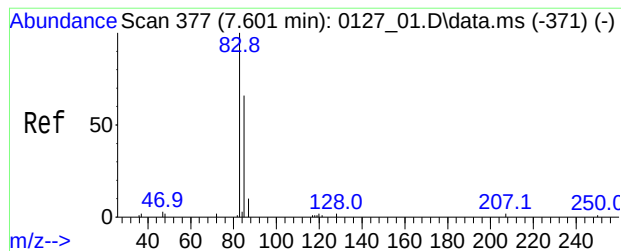
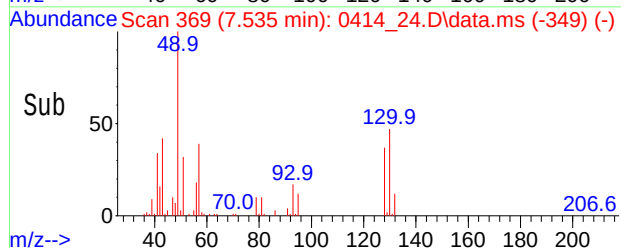
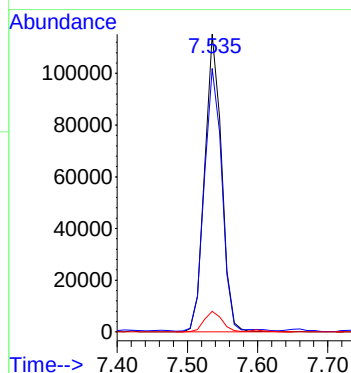
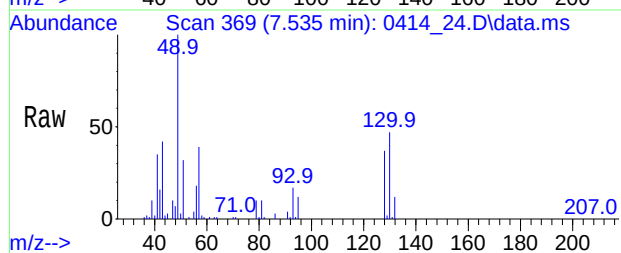
Tgt Ion	Ratio	Lower	Upper
43	100		
72	12.7	10.2	15.4
57	6.5	6.1	9.1





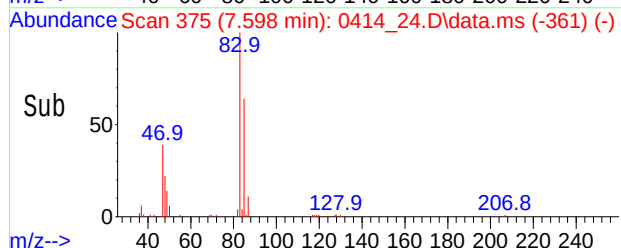
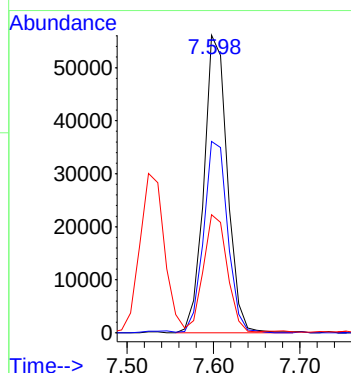
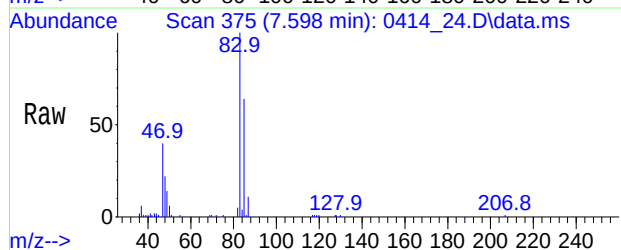
#28
Hexane
Conc: 8\$ 3.137 ppbv
RT: 7.535 min Scan# 369
Delta R.T. 0.010 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

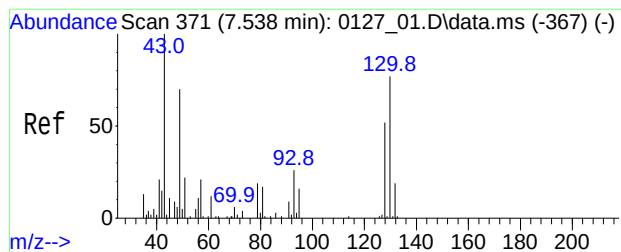
Tgt Ion: 57 Resp: 191843
Ion Ratio Lower Upper
57 100
41 91.6 72.3 108.5
86 7.3 7.0 10.6



#29
Chloroform
Conc: 8\$ 1.753 ppbv
RT: 7.598 min Scan# 375
Delta R.T. -0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

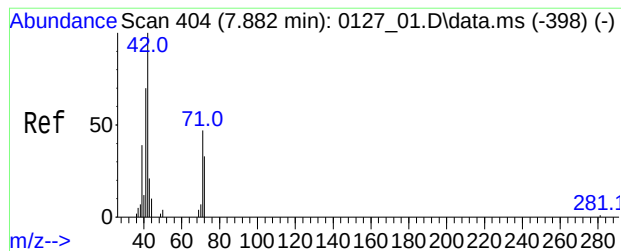
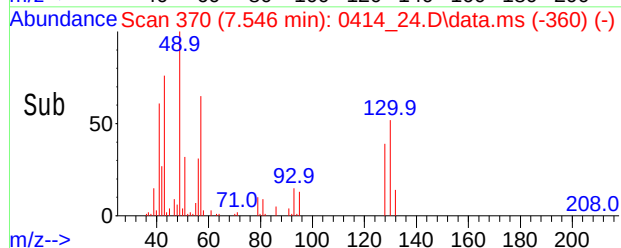
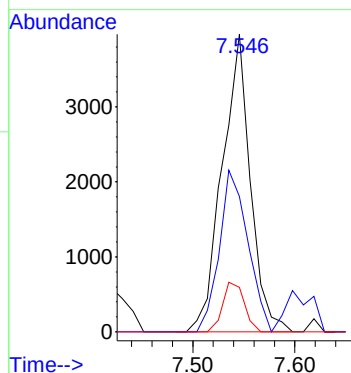
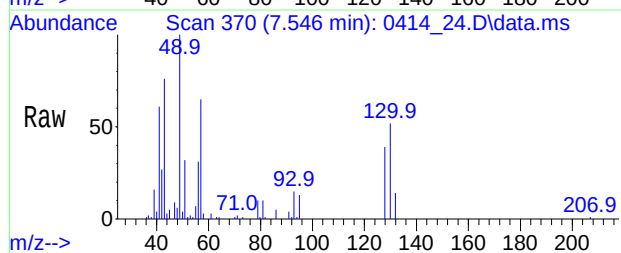
Tgt Ion: 83 Resp: 106159
Ion Ratio Lower Upper
83 100
85 65.8 43.0 83.0
47 39.8 16.5 56.5





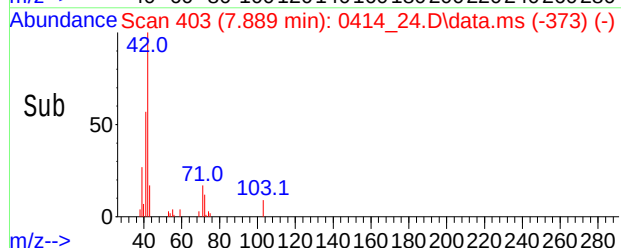
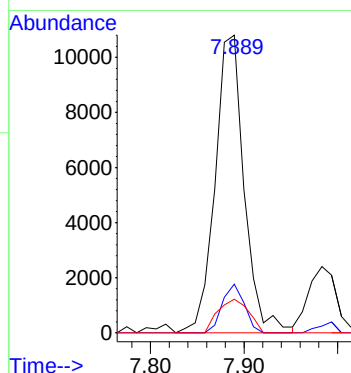
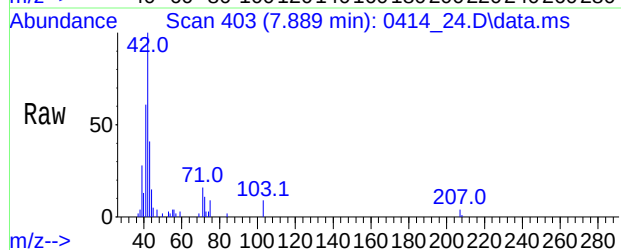
#30
Ethyl acetate
Conc: 8\$ 0.502 ppbv
RT: 7.546 min Scan# 370
Delta R.T. -0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

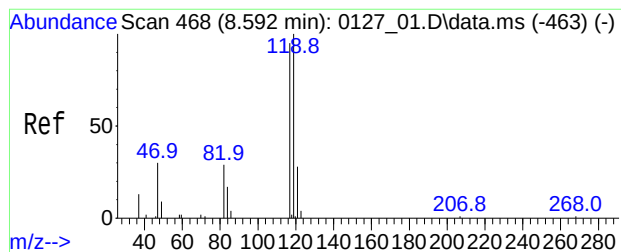
Tgt Ion	Ratio	Lower	Upper
61	100		
70	54.6	45.0	67.6
88	12.8	12.6	19.0



#31
Tetrahydrofuran
Conc: 8\$ 0.411 ppbv
RT: 7.889 min Scan# 403
Delta R.T. 0.010 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

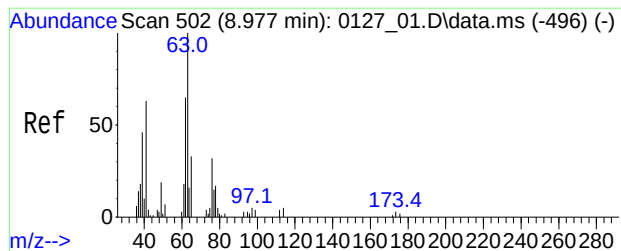
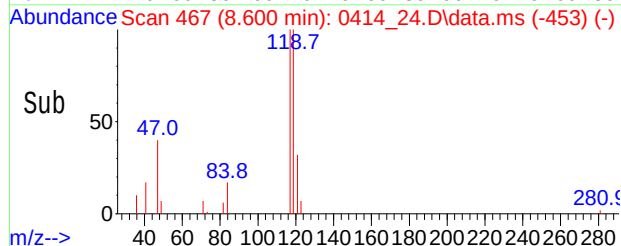
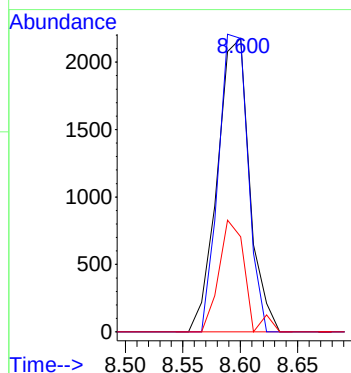
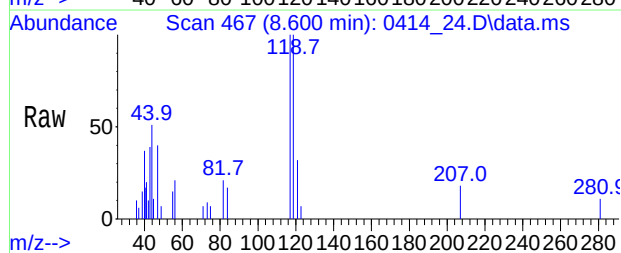
Tgt Ion	Ratio	Lower	Upper
42	100		
71	12.4	18.6	28.0#
72	11.9	17.1	25.7#





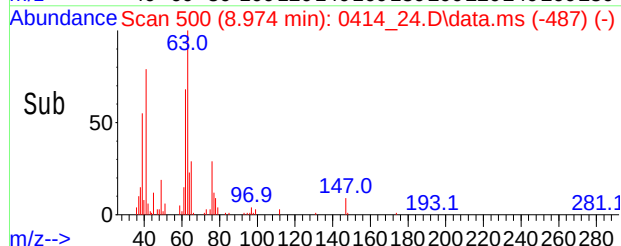
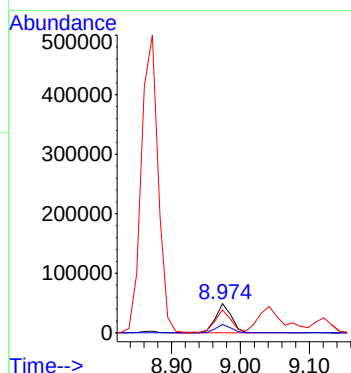
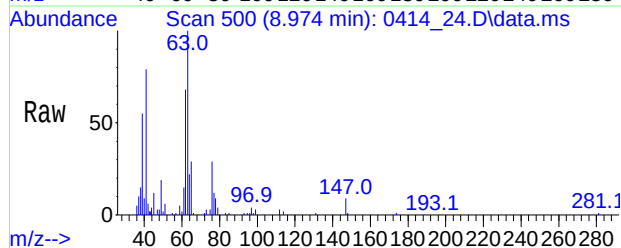
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.600 min Scan# 467
Delta R.T. 0.011 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

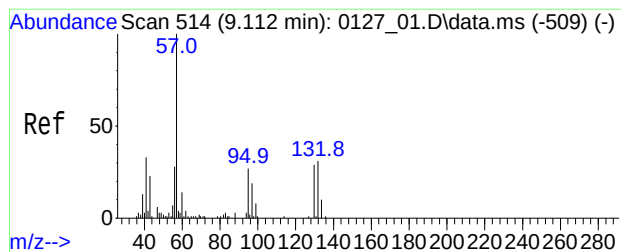
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4252		
119	92.5	77.5	117.5	
121	30.8	12.4	52.4	



#38
1,2-dichloropropane
Conc: 8\$ 1.954 ppbv
RT: 8.974 min Scan# 500
Delta R.T. -0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

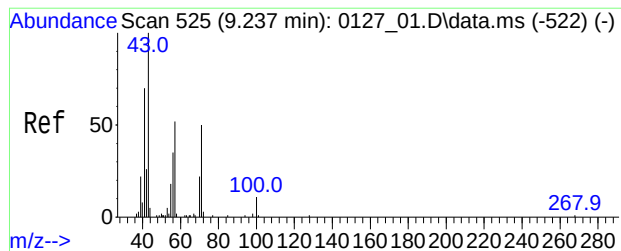
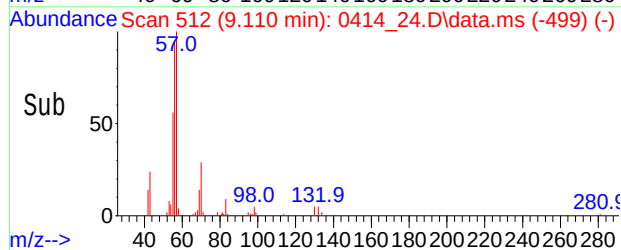
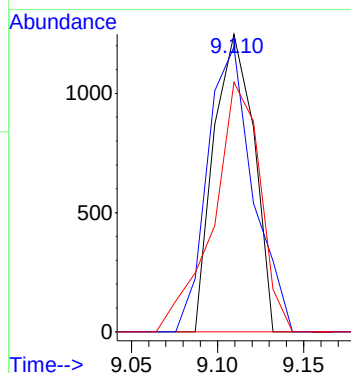
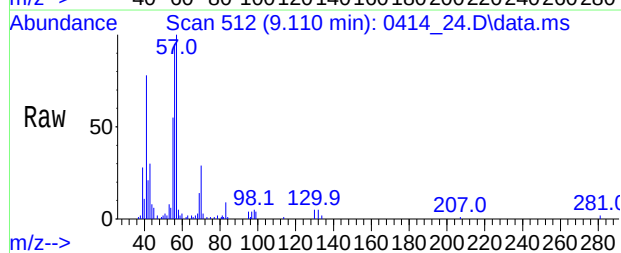
Tgt Ion	Ratio	Resp	Lower	Upper
63	100	80478		
76	28.0	25.2	37.8	
41	75.4	60.7	91.1	





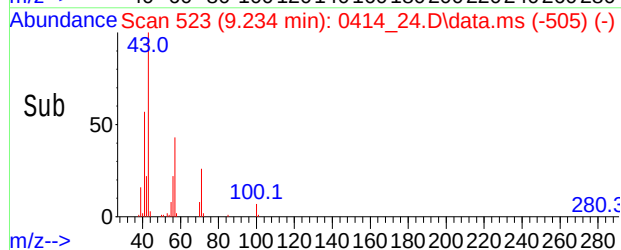
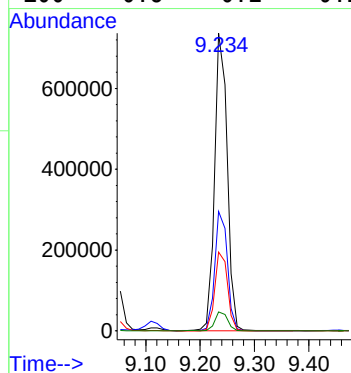
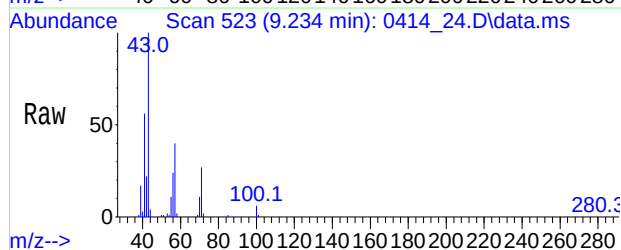
#40
Trichloroethene
Conc: 8\$ Below Cal
RT: 9.110 min Scan# 512
Delta R.T. -0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

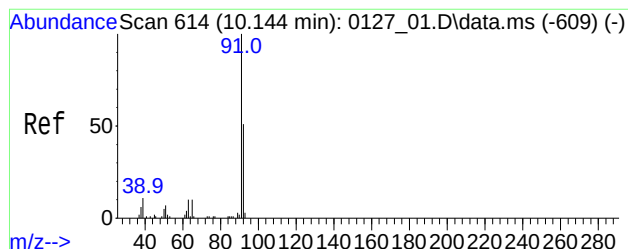
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	2022		
132	109.7	77.3	115.9	
97	98.5	50.8	76.2#	



#44
Heptane
Conc: 8\$ 12.952 ppbv
RT: 9.234 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

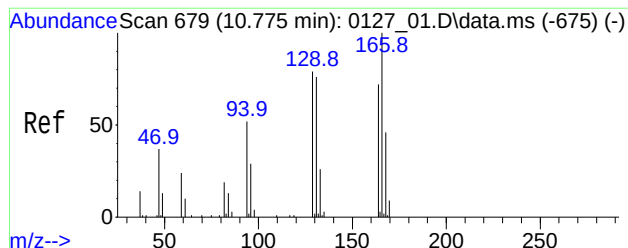
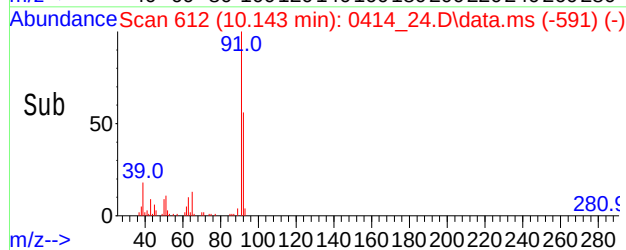
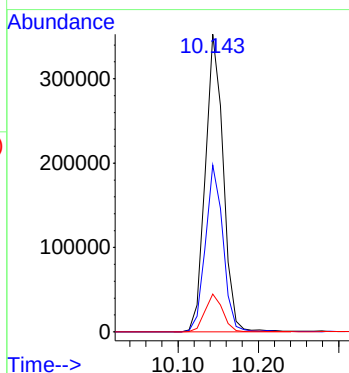
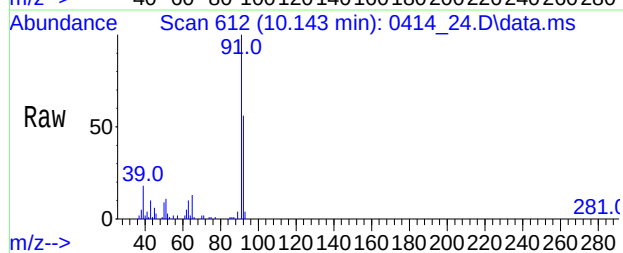
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	1181283		
57	40.3	37.9	56.9	
71	26.8	24.4	36.6	
100	6.5	6.2	9.2	





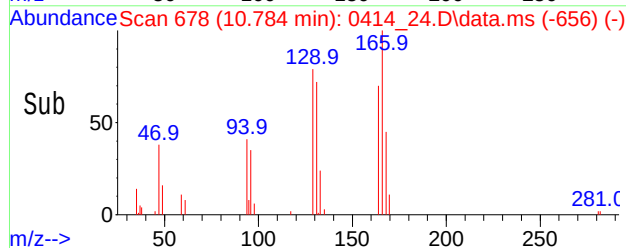
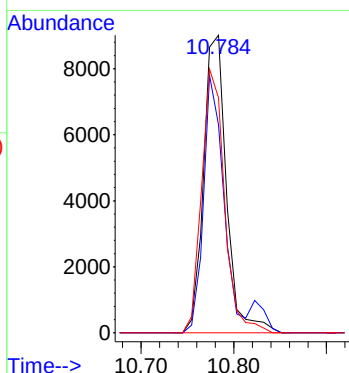
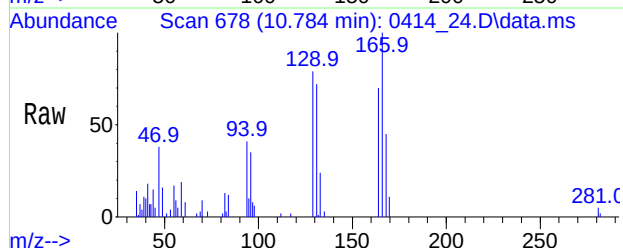
#49
Toluene
Conc: 8\$ 4.941 ppbv
RT: 10.143 min Scan# 612
Delta R.T. 0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

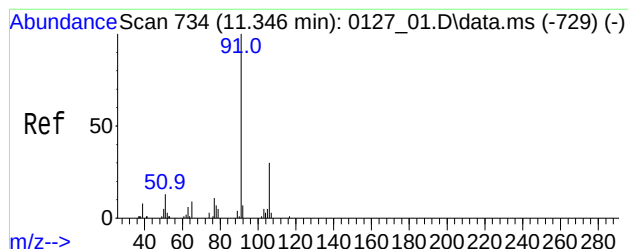
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.2	44.8	67.2
65	12.7	10.5	15.7



#53
Tetrachloroethene
Conc: 8\$ 0.261 ppbv
RT: 10.784 min Scan# 678
Delta R.T. 0.010 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

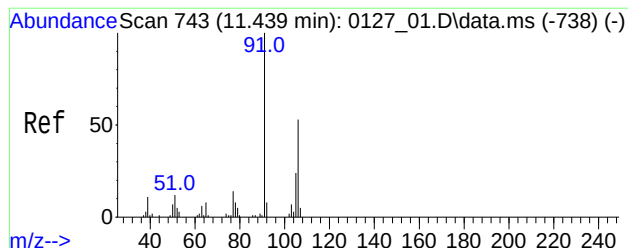
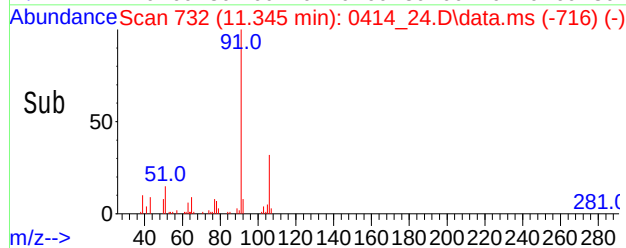
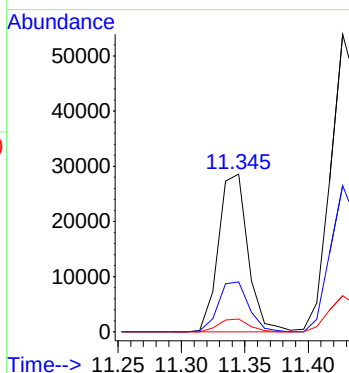
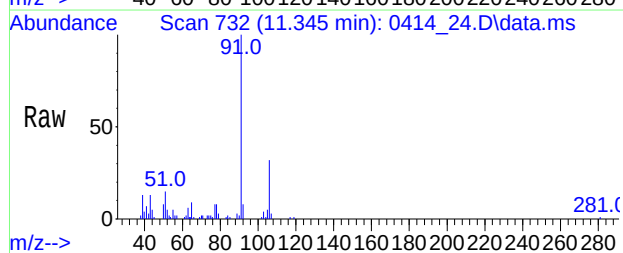
Tgt Ion	Ratio	Lower	Upper
166	100		
164	75.9	65.8	98.6
129	88.1	64.7	97.1





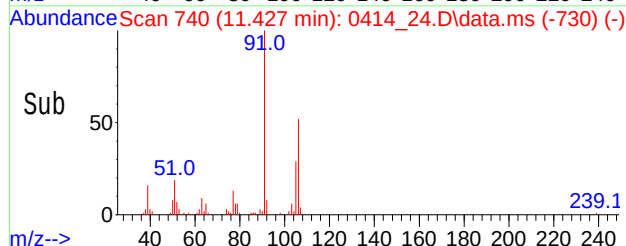
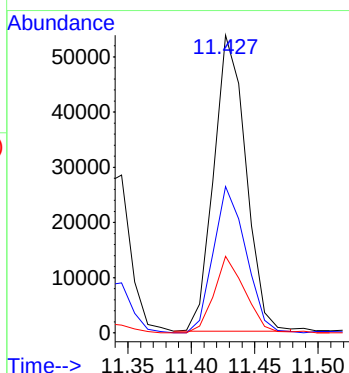
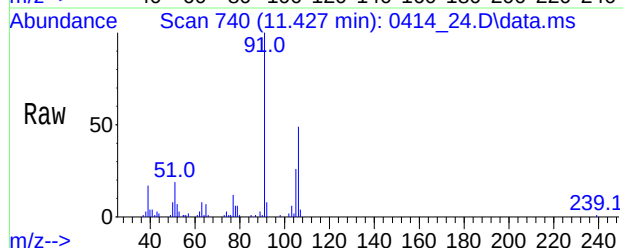
#57
Ethylbenzene
Conc: 8\$ 0.334 ppbv
RT: 11.345 min Scan# 732
Delta R.T. 0.010 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

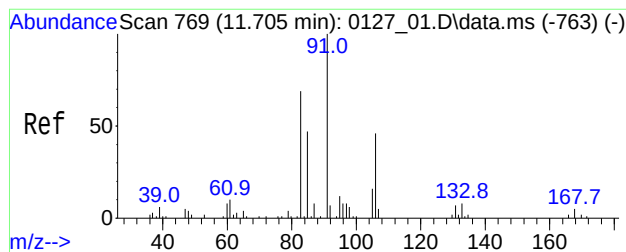
Tgt Ion	Ratio	Lower	Upper
91	100		
106	32.8	12.3	52.3
77	8.4	0.0	28.6



#58
m,p-Xylene
Conc: 8\$ 0.913 ppbv
RT: 11.427 min Scan# 740
Delta R.T. 0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

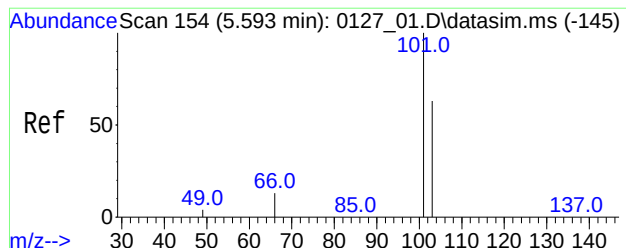
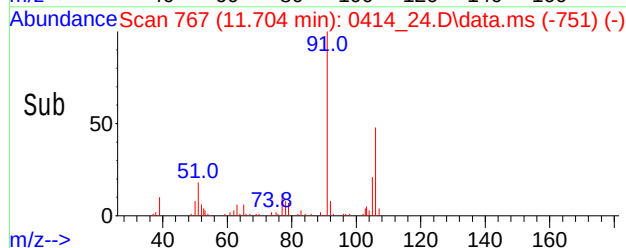
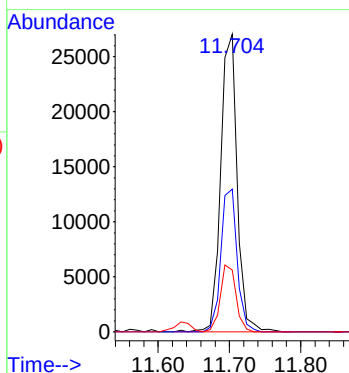
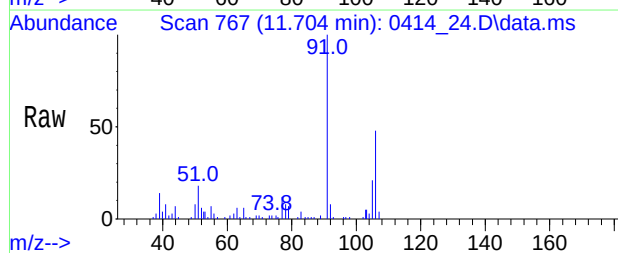
Tgt Ion	Ratio	Lower	Upper
91	100		
106	50.1	41.4	62.2
105	24.9	19.8	29.8





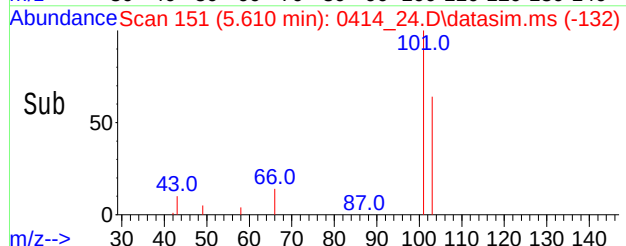
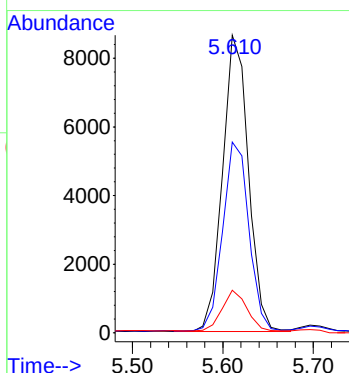
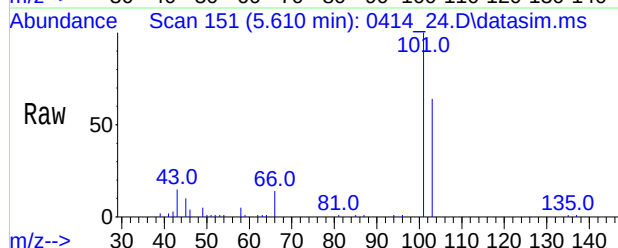
#62
o-Xylene
Conc: 8\$ 0.391 ppbv
RT: 11.704 min Scan# 767
Delta R.T. 0.010 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

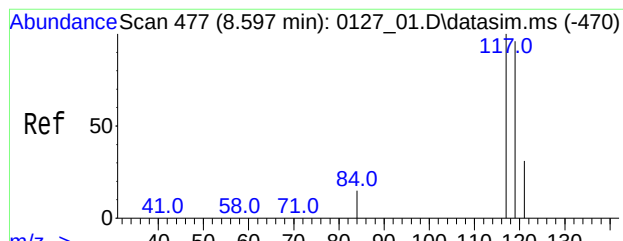
Tgt Ion:	91	Resp:	43631
Ion Ratio	Lower	Upper	
91	100		
106	47.3	37.1	55.7
105	21.3	16.2	24.2



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.230 ppbv
RT: 5.610 min Scan# 151
Delta R.T. 0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

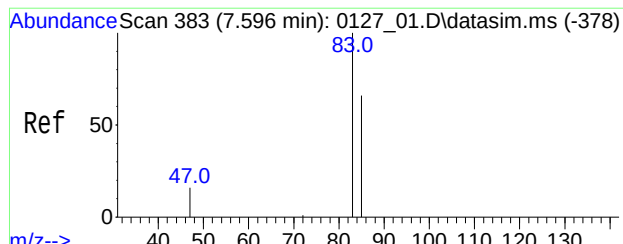
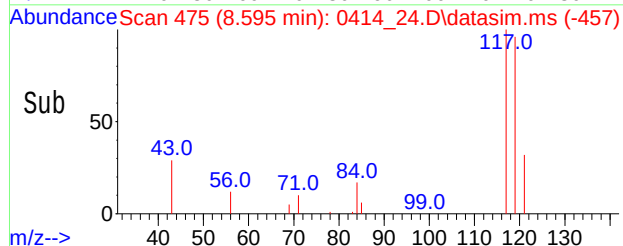
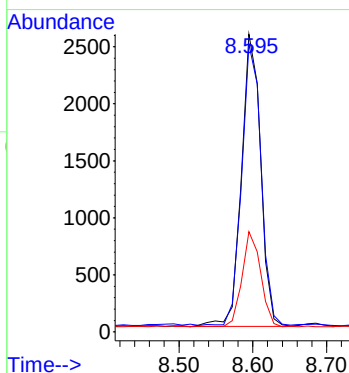
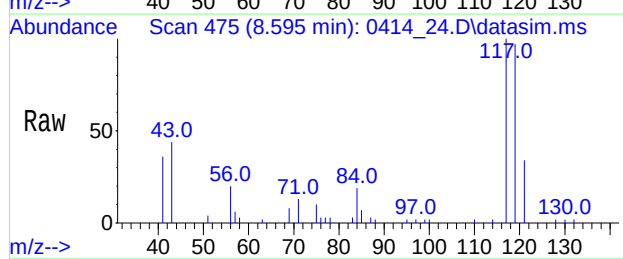
Tgt Ion:	101	Resp:	17190
Ion Ratio	Lower	Upper	
101	100		
103	64.4	52.5	78.7
66	13.7	18.3	18.3#





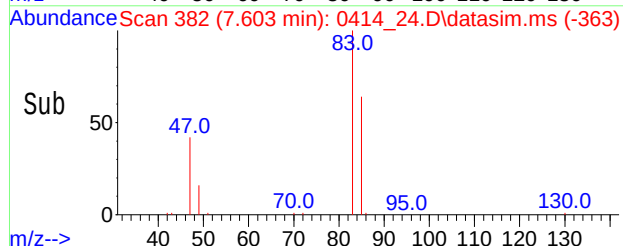
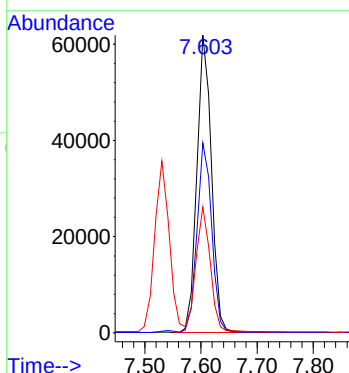
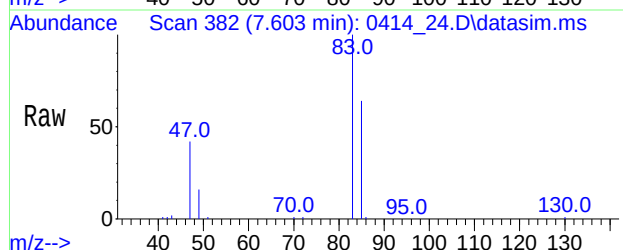
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.075 ppbv
RT: 8.595 min Scan# 475
Delta R.T. -0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

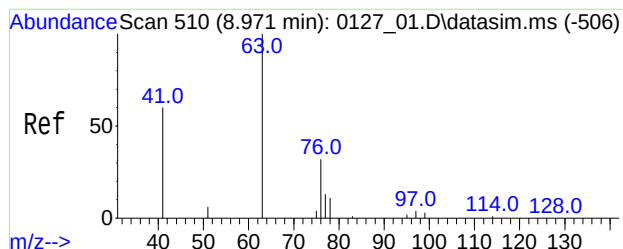
Tgt Ion: 117 Resp: 4658
Ion Ratio Lower Upper
117 100
119 97.1 79.2 118.8
121 31.4 25.5 38.3



#95
Chloroform(sim)
Conc: 8\$ 1.698 ppbv
RT: 7.603 min Scan# 382
Delta R.T. 0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

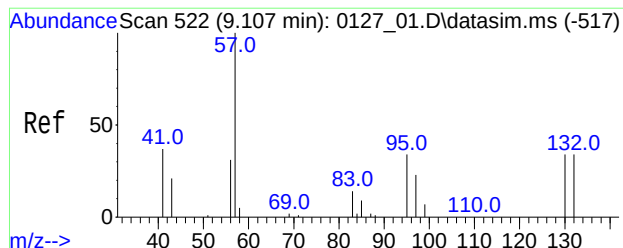
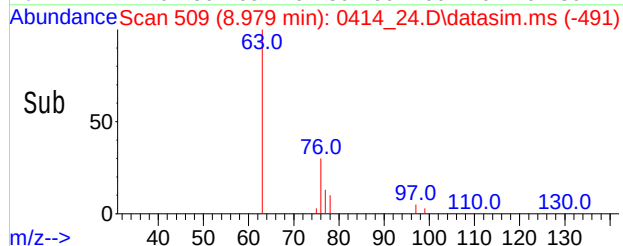
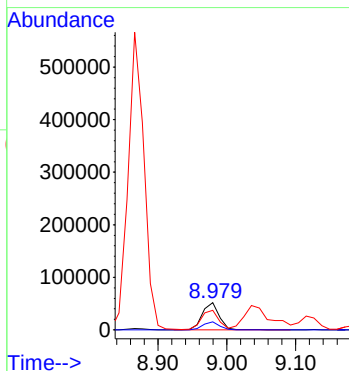
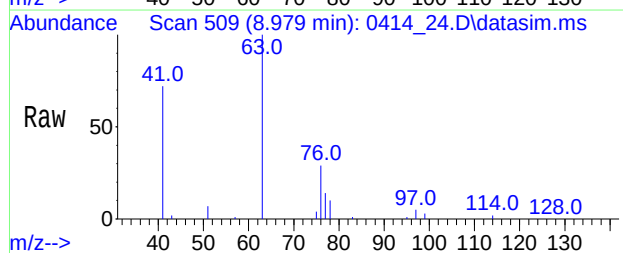
Tgt Ion: 83 Resp: 111964
Ion Ratio Lower Upper
83 100
85 64.1 51.5 77.3
47 41.1 31.4 47.2





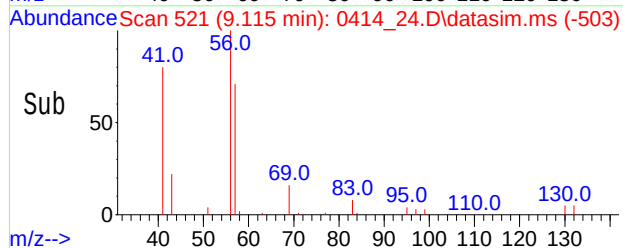
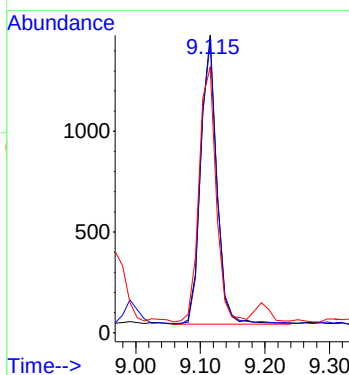
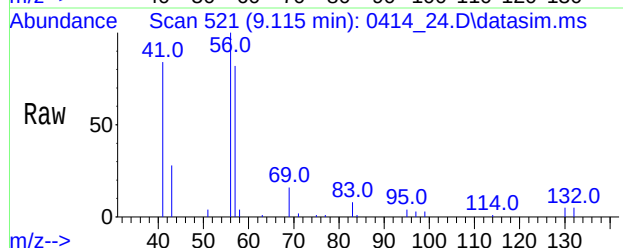
#97
1,2-dichloropropane(sim)
Conc: 8\$ 1.812 ppbv
RT: 8.979 min Scan# 509
Delta R.T. 0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

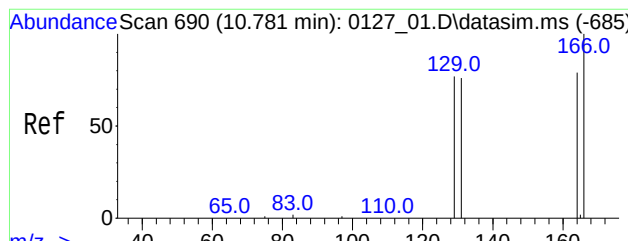
Tgt Ion	Ratio	Lower	Upper
63	100		
76	28.7	22.9	34.3
41	71.7	55.4	83.0



#99
Trichloroethene(sim)
Conc: 8\$ 0.046 ppbv
RT: 9.115 min Scan# 521
Delta R.T. 0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

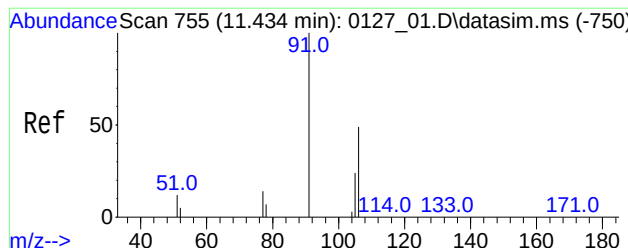
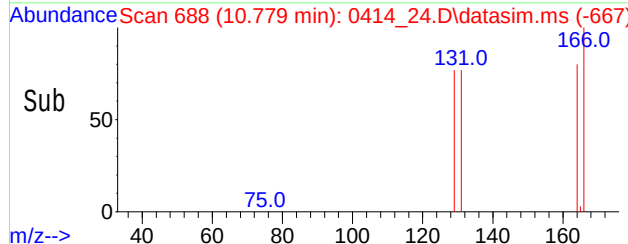
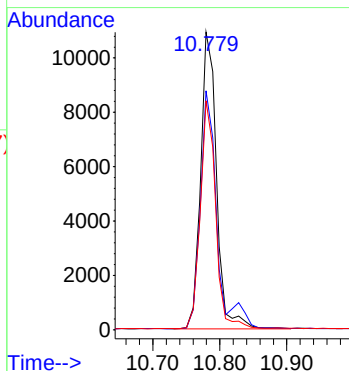
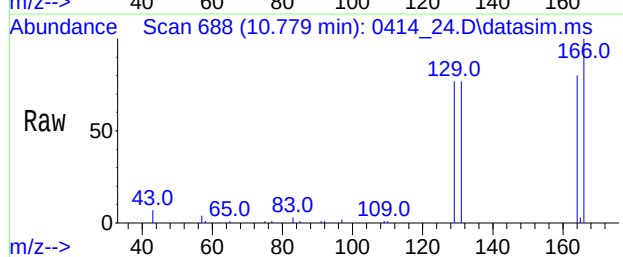
Tgt Ion	Ratio	Lower	Upper
130	100		
132	98.1	79.0	118.4
95	93.6	73.0	109.6





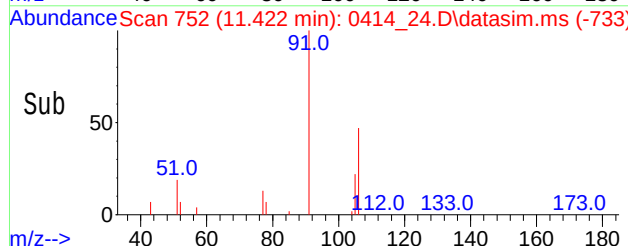
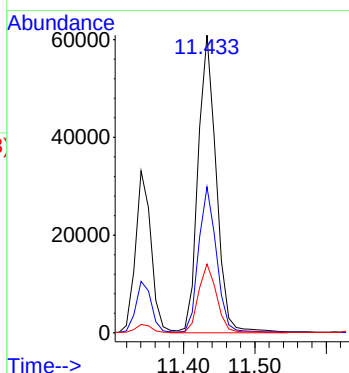
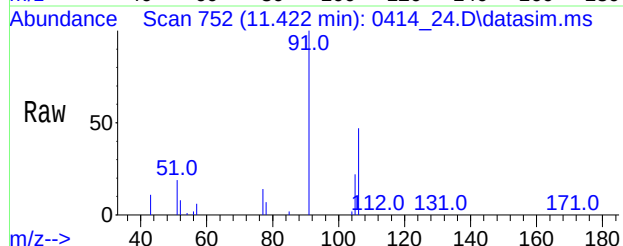
#105
Tetrachloroethene(sim)
Conc: 8\$ 0.230 ppbv
RT: 10.779 min Scan# 688
Delta R.T. -0.001 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
164	83.9	58.6	98.6
129	74.3	53.3	93.3



#108
m,p-Xylene(sim)
Conc: 8\$ 0.838 ppbv
RT: 11.427 min Scan# 752
Delta R.T. 0.000 min
Lab File: 0414_24.D
Acq: 14 Apr 2023 10:57 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	49.3	47.5	58.1
105	24.1	19.4	29.2



Response Factor Report CHEM20

Method Path : H:\AIR2023\CHEM20\Methods\
 Method File : 20_AIR_0410.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 11 10:01:36 2023
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)

.035=0410_06.D 0.05=0410_07.D 0.10=0410_08.D 0.2=0410_09.D 0.5=0410_10.D 1.0=0410_15.D 2.5=0410_11.D 5.0=0410_12.D
 10=0410_16.D 25=0410_13.D 40=0410_14.D 0.02=0410_05.D 0.01=0410_04.D

Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	0.01	Avg	%RSD
1) Int Bromochloromethane	-----ISTD-----														
2) Propylene				1.384	1.244	1.166	1.156	1.286	1.201	1.171	1.161			1.221	6.55
3) Dichlorodifluo...				2.862	2.365	2.282	2.219	2.456	2.268	2.220	2.204			2.360	9.33
4) Chloromethane				1.520	1.217	1.294	1.172	1.294	1.244	1.195	1.180			1.264	8.97
5) 1,2-Dichlorote...				2.408	2.235	2.148	2.092	2.345	2.157	2.080	2.102			2.196	5.60
6) Vinyl Chloride				1.087	1.019	0.958	0.960	1.074	0.995	0.970	0.970			1.004	5.11
7) 1,3-Butadiene				1.282	0.982	1.051	0.943	1.045	0.955	0.941	0.948			1.018	11.32
8) Bromomethane				0.995	0.824	0.802	0.778	0.846	0.787	0.778	0.776			0.823	8.98
9) Chloroethane				0.596	0.518	0.435	0.425	0.450	0.438	0.413	0.423			0.462	13.62
11) Ethanol				0.750	0.564	0.422	0.393	0.415	0.375	0.372	0.359			0.456	29.65
12) Acetone				2.807	2.323	2.282	2.134	2.340	2.199	2.145	2.150			2.297	9.64
13) Trichlorofluor...				2.563	2.466	2.392	2.294	2.832	2.687	2.439	2.553			2.528	6.77
14) Isopropylalcohol				1.863	1.368	1.707	2.123	2.367	2.441	2.260	2.337			2.058	18.39
15) Acrylonitrile				1.029	0.950	0.978	0.947	1.020	0.972	0.965	0.986			0.981	3.07
16) 1,1-Dichloroet...				1.899	1.758	1.814	1.789	1.977	1.856	1.798	1.804			1.837	3.86
17) Methylene Chlo...				1.916	1.748	1.709	1.667	1.816	1.703	1.646	1.668			1.734	5.28
20) Carbon Disulfide				2.422	2.271	2.234	2.154	2.414	2.270	2.221	2.250			2.279	4.08
21) Trichlorotrifl...				2.004	1.838	1.801	1.783	1.963	1.843	1.820	1.822			1.859	4.30
22) Trans-1,2-Dich...				1.972	1.619	1.701	1.723	1.879	1.703	1.664	1.674			1.742	6.90
23) 1,1-Dichloroet...				2.191	2.013	2.030	1.956	2.230	1.886	2.002	1.836			2.018	6.75
24) Methyl tert-bu...				2.582	2.490	2.464	2.427	2.741	2.329	2.468	2.281			2.473	5.80
26) Methyl Ethyl K...				3.466	3.450	3.383	3.165	4.025	3.712	3.583	3.276			3.507	7.67
27) Cis-1,2-Dichlo...				1.921	1.703	1.671	1.675	1.863	1.753	1.715	1.737			1.755	5.16
28) Hexane				2.335	2.180	2.035	1.997	2.275	2.097	2.088	2.093			2.138	5.48
29) Chloroform				2.172	2.073	2.051	2.025	2.284	2.115	2.094	2.118			2.117	3.85
30) Ethyl acetate				0.588	0.537	0.518	0.495	0.562	0.525	0.516	0.516			0.532	5.60
31) Tetrahydrofuran				2.422	1.900	1.898	1.863	2.058	1.943	1.918	1.927			1.991	9.20
32) 1,2-Dichloroet...				1.568	1.574	1.582	1.569	1.740	1.648	1.635	1.651			1.621	3.70
33) 1,1,1-Trichlor...				2.340	2.439	2.451	2.380	2.712	2.579	2.502	2.559			2.495	4.81
34) Benzene		3.481		3.062	2.789	2.874	2.781	3.093	2.956	2.881	2.903			2.980	7.26
35) Carbon Tetrach...				1.919	1.935	2.066	2.102	2.391	2.281	2.311	2.361			2.171	8.73
36) Cyclohexane				1.349	1.179	1.173	1.114	1.240	1.136	1.136	1.133			1.182	6.61
37) Int 1,4-Difluorobenzene	-----ISTD-----														
38) 1,2-dichloropr...				0.432	0.382	0.379	0.367	0.419	0.387	0.385	0.382			0.392	5.62
39) Bromodichlorom...				0.643	0.565	0.586	0.570	0.640	0.606	0.603	0.611			0.603	4.80
40) Trichloroethene				0.418	0.401	0.424	0.397	0.454	0.410	0.402	0.395			0.412	4.73
42) 1,4-Dioxane				0.180	0.180	0.179	0.169	0.172	0.156	0.154	0.151			0.168	7.31
44) Heptane				0.871	0.840	0.871	0.830	0.950	0.865	0.863	0.852			0.868	4.20
45) cis-1,3-Dichlo...				0.476	0.435	0.457	0.427	0.491	0.458	0.462	0.467			0.459	4.49

Response Factor Report CHEM20

Method Path : H:\AIR2023\CHEM20\Methods\

Method File : 20_AIR_0410.M

Title : VOA Standards for 5 point calibration

46)	4-Methyl-2-pen...	1.152	1.115	1.140	1.081	1.223	1.149	1.120	1.108	1.136	3.75
47)	trans-1,3-Dich...	0.440	0.419	0.424	0.406	0.457	0.438	0.435	0.442	0.432	3.69
48)	1,1,2-Trichlor...	0.347	0.350	0.382	0.340	0.385	0.356	0.352	0.357	0.359	4.59
49)	Toluene	1.119	1.031	1.055	0.998	1.130	1.051	1.037	1.027	1.056	4.34
50)	Dibromochlorom...	0.630	0.577	0.636	0.585	0.724	0.688	0.712	0.722	0.659	9.14
51)	2-Hexanone(MBK)	0.991	0.995	1.032	0.969	1.129	1.083	1.056	1.055	1.039	5.10
52)	1,2-Dibromoeth...	0.619	0.576	0.602	0.554	0.642	0.588	0.588	0.601	0.596	4.46
53)	Tetrachloroethene	0.636	0.533	0.565	0.533	0.606	0.553	0.549	0.554	0.566	6.42

54)	Int Chlorobenzene-d5	-----ISTD-----									
55)	1,1,1,2-Tetrac...	1.070	0.925	0.993	0.938	1.071	0.973	0.891	0.830	0.961	8.70
56)	Chlorobenzene	1.987	1.772	1.876	1.728	1.980	1.758	1.587	1.458	1.768	10.38
57)	Ethylbenzene	3.445	2.912	2.882	2.973	2.745	3.134	2.762	2.459	2.844	12.12
58)	m,p-Xylene	2.507	2.276	2.193	1.809	2.079	2.435	2.156	1.927	2.126	12.35
59)	Bromoform	1.247	1.220	1.290	1.206	1.449	1.327	1.288	1.217	1.281	6.27
60)	Styrene	1.703	1.735	1.820	1.622	1.895	1.674	1.526	1.421	1.674	9.12
61)	1,1,2,2-Tetrac...	1.709	1.627	1.721	1.567	1.859	1.665	1.482	1.338	1.621	9.85
62)	o-Xylene	2.770	2.490	2.351	2.294	2.170	2.481	2.195	1.975	2.282	12.59
63)	Surr% Bromofluorob...	1.420	1.441	1.400	1.422	1.436	1.342	1.272	1.192	1.366	6.64
65)	Isopropylbenzene	3.435	3.171	3.251	2.993	3.469	3.070	2.722	2.501	3.076	10.89
67)	4-Ethyltoluene	3.412	3.160	3.254	3.266	3.653	3.215	2.888	2.619	3.183	9.88
68)	1,3,5-Trimethy...	3.070	2.826	2.793	2.295	3.050	2.745	2.442	2.249	2.684	11.94
69)	1,2,4-Trimethy...	2.905	2.731	2.807	2.613	3.152	2.807	2.503	2.282	2.725	9.67
71)	Benzyl chloride	1.811	1.885	2.046	1.854	2.543	2.299	2.104	1.904	2.056	12.36
72)	1,3-Dichlorobe...	1.925	1.875	2.071	1.716	2.269	2.023	1.775	1.632	1.911	10.87
73)	1,4-Dichlorobe...	1.950	1.778	1.948	1.679	2.075	1.860	1.674	1.559	1.815	9.57
74)	sec-Butylbenzene	4.256	3.812	3.941	3.636	4.287	3.843	3.448	3.098	3.790	10.51
75)	4-Isopropyltol...	3.849	3.726	3.759	3.458	4.174	3.745	3.356	3.028	3.637	9.58
76)	1,2-Dichlorobe...	1.876	1.871	1.861	1.571	2.147	1.914	1.718	1.583	1.818	10.43
77)	n-Butylbenzene	3.138	2.991	3.087	2.789	3.466	3.151	2.830	2.550	3.000	9.28
78)	1,2,4-Trichlor...	0.803	0.788	1.352	0.848	1.523	1.491	1.406	1.331	1.193	26.93
80)	Hexachlorobuta...	1.093	0.931	1.151	0.913	1.610	1.413	1.295	1.203	1.201	19.68

81)	int Bromochloromethane...	-----ISTD-----													
82)	1,2-Dichlorote...	2.039	2.108	2.654	2.218	2.050	1.988	1.913	2.168			2.102	2.782	2.202	13.01
83)	Vinyl Chloride...	1.037	0.993	1.185	1.029	0.962	0.976	0.946	1.060			0.983	1.366	1.054	12.27
84)	Bromomethane(sim)	0.834	0.821	1.399	0.917	0.757	0.746	0.713	0.783			0.913		0.876	23.81
85)	Trichlorofluor...	2.238	2.322	2.640	2.402	2.204	2.239	2.133	2.366			2.265	2.913	2.372	9.94
86)	1,2-Dichloroet...	1.776	1.574	1.857	1.444	1.446	1.471	1.439	1.612			1.631	2.000	1.625	12.02
87)	1,1,1-Trichlor...	2.044	2.127	2.427	2.180	2.039	2.126	2.040	2.366			2.103	2.623	2.208	8.99
88)	Benzene(sim)	3.022	2.961	3.197	2.820	2.561	2.673	2.551				3.245	4.277	3.034	17.50
89)	Carbon Tetrach...	1.868	1.801	2.175	1.978	1.922	2.027	2.020				1.713	2.134	1.960	7.67
90)	1,1-Dichloroet...	1.853	1.794	2.102	1.748	1.615	1.687	1.641	1.831			2.134	2.304	1.871	12.41
91)	Trichlorotrifl...	1.809	1.757	2.304	1.862	1.742	1.769	1.705	1.920			1.921	2.114	1.890	9.97
92)	Trans-1,2-Dich...	1.677	1.750	2.134	1.816	1.487	1.582	1.581	1.741			1.807	2.005	1.758	11.23
93)	1,1-Dichloroet...	2.042	2.100	2.358	2.091	1.984	2.020	1.948	2.200			1.965	2.292	2.100	6.70
94)	Cis-1,2-Dichlo...	1.781	1.797	1.834	1.769	1.564	1.554	1.536	1.726			1.882	2.731	1.817	18.91
95)	Chloroform(sim)	1.907	1.992	2.328	2.082	1.941	1.996	1.922	2.176			2.069	2.514	2.093	9.37

96) int 1,4-Difluorobenzen... -----ISTD-----

Response Factor Report CHEM20

Method	Path : H:\AIR2023\CHEM20\Methods\												
Method	File : 20_AIR_0410.M												
Title	: VOA_Standards for 5 point calibration												
97)	1,2-dichloropr...	0.427	0.449	0.497	0.437	0.404	0.417	0.397	0.454	0.525	0.612	0.462	14.33
98)	Bromodichlorom...	0.578	0.588	0.769	0.643	0.571	0.589	0.571	0.640	0.875	0.823	0.665	17.23
99)	Trichloroethen...	0.489	0.481	0.530	0.475	0.442	0.453	0.429	0.486	0.494	0.786	0.506	20.19
100)	1,4-Dioxane(sim)		0.211	0.240	0.180	0.180	0.180	0.169	0.172			0.190	13.55
101)	cis-1,3-Dichlo...	0.475	0.482	0.570	0.516	0.474	0.496	0.466		0.501	0.623	0.511	10.22
102)	1,1,2-Trichlor...	0.381	0.429	0.453	0.347	0.350	0.383	0.340	0.386	0.499	0.591	0.416	19.15
103)	Dibromochlorom...	0.637	0.664	0.791	0.696	0.633	0.692	0.651		0.707	1.259	0.748	26.42
104)	1,2-Dibromoeth...	0.523	0.636	0.671	0.619	0.575	0.604	0.553	0.643	0.631	0.933	0.639	17.62
105)	Tetrachloroeth...	0.862	0.826	0.799	0.687	0.637	0.642	0.610	0.698	0.645		0.742	17.54
106)	int Chlorobenzene-d5(sim)	-----ISTD-----											
107)	Bromoform(sim)	1.525	1.450	1.718	1.452	1.384	1.516	1.335		1.621		1.500	8.30
108)	m,p-Xylene(sim)	2.325	2.333	2.610	2.392	2.236	2.321	2.111	2.467	2.740		2.393	7.96
109)	1,1,2,2-Tetrac...	1.815	1.754	2.108	1.832	1.731	1.809	1.624	1.924	1.951	2.584	1.913	14.14
112)	Benzyl chlorid...	2.585	2.023	2.142	1.811	1.884	2.043	1.855		2.640		2.123	15.15
113)	1,3-Dichlorobe...	2.131	2.069	2.468	2.225	2.179	2.323	1.938	2.623	2.260		2.246	9.20
114)	1,4-Dichlorobe...	2.865	2.709	2.358	1.949	1.787	1.948	1.679		2.562		2.232	20.17
115)	sec-Butylbenze...	4.404	4.273	5.106	4.525	4.275	4.387	4.049	4.707	4.574	7.112	4.741	18.58
116)	4-Isopropyltol...	4.139	3.890	4.380	3.849	3.724	3.759	3.461		4.431	6.903	4.282	24.11
117)	1,2-Dichlorobe...	2.167	1.941	2.286	2.046	1.954	2.083	1.762	2.374	2.326		2.104	9.63
118)	n-Butylbenzene...	3.648	3.266	3.366	3.138	2.990	3.087	2.789		3.623	5.889	3.533	26.24
119)	1,2,4-Trichlor...	1.290	1.183	1.031	0.921	0.900	1.566	0.986				1.125	21.32
120)	Hexachlorobuta...	1.514	1.347	1.411	1.093	0.931	1.151	0.913		1.566		1.241	20.53

(#,\$,@)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)

Response Factor Report Chem39

Method Path : H:\AIR2023\CHEM39\Methods\
 Method File : 39_AIR_0413.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Apr 14 11:21:21 2023
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)

.035=0413_07.D 0.05=0413_08.D 0.10=0413_09.D 0.2=0413_10.D 0.5=0413_11.D 1.0=0413_16.D 2.5=0413_12.D 5.0=0413_13.D
 10=0413_17.D 25=0413_14.D 40=0413_15.D 0.02=0413_06.D 0.01=0413_05.D

Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	0.01	Avg	%RSD
1) Int Bromochloromethane	-----ISTD-----														
2) Propylene	0.600	0.550	0.542	0.512	0.554	0.554	0.554	0.554	0.564	0.563				0.555	4.45
3) Dichlorodifluo...	2.238	2.102	1.987	1.953	2.127	2.139	2.127	2.139	2.127	2.082				2.094	4.29
4) Chloromethane	0.595	0.549	0.539	0.532	0.570	0.591	0.585	0.582						0.568	4.31
5) 1,2-Dichlorote...	2.101	2.055	1.991	1.954	2.120	2.124	2.104	2.083						2.067	3.03
6) Vinyl Chloride	0.730	0.718	0.694	0.688	0.740	0.753	0.757	0.758						0.730	3.81
7) 1,3-Butadiene	0.515	0.535	0.498	0.471	0.529	0.543	0.535	0.537						0.520	4.76
8) Bromomethane	0.850	0.803	0.823	0.749	0.810	0.815	0.823	0.822						0.812	3.54
9) Chloroethane	0.469	0.386	0.346	0.324	0.352	0.358	0.355	0.354						0.368	12.00
11) Ethanol	0.254	0.181	0.193	0.174	0.189	0.195	0.186	0.166						0.192	13.96
12) Acetone	1.162	1.020	0.966	0.925	0.978	1.011	1.011	1.015						1.011	6.83
13) Trichlorofluor...	2.058	2.033	2.009	1.959	2.127	2.136	2.151	2.130						2.075	3.41
14) Isopropylalcohol		1.177	1.188	1.102	1.231	1.267	1.238	1.168						1.196	4.58
15) Acrylonitrile	0.517	0.483	0.480	0.452	0.502	0.515	0.520	0.525						0.499	5.11
16) 1,1-Dichloroet...	1.176	1.160	1.124	1.122	1.220	1.238	1.224	1.211						1.184	3.86
17) Methylene Chlo...	0.761	0.714	0.722	0.690	0.763	0.776	0.771	0.769						0.746	4.31
20) Carbon Disulfide	2.253	2.148	2.171	2.056	2.248	2.282	2.296	2.283						2.217	3.80
21) Trichlorotrifl...	1.766	1.791	1.726	1.677	1.815	1.822	1.803	1.765						1.771	2.77
22) Trans-1,2-Dich...	1.245	1.229	1.224	1.201	1.321	1.335	1.337	1.325						1.277	4.50
23) 1,1-Dichloroet...	1.614	1.571	1.570	1.501	1.631	1.648	1.642	1.617						1.599	3.09
24) Methyl tert-bu...	2.340	2.461	2.432	2.359	2.541	2.543	2.516	2.480						2.459	3.16
26) Methyl Ethyl K...	1.385	1.417	1.489	1.468	1.688	1.781	1.836	1.770						1.604	11.41
27) Cis-1,2-Dichlo...	1.202	1.191	1.173	1.140	1.245	1.265	1.257	1.250						1.215	3.74
28) Hexane	1.403	1.364	1.350	1.281	1.387	1.378	1.351	1.322						1.354	2.86
29) Chloroform	2.020	1.929	1.904	1.856	2.000	2.003	1.992	1.967						1.959	2.94
30) Ethyl acetate	0.394	0.375	0.402	0.376	0.392	0.411	0.397	0.390						0.392	3.16
31) Tetrahydrofuran	0.841	0.912	0.867	0.839	0.906	0.943	0.920	0.907						0.892	4.31
32) 1,2-Dichloroet...	1.048	1.037	1.014	1.009	1.093	1.117	1.127	1.111						1.069	4.47
33) 1,1,1-Trichlor...	1.842	1.919	1.842	1.832	1.970	1.990	1.990	1.980						1.921	3.73
34) Benzene	3.189	3.022	2.993	2.891	3.124	3.119	3.102	3.051						3.061	3.04
35) Carbon Tetrach...	2.014	2.073	1.994	1.956	2.129	2.145	2.149	2.127						2.073	3.66
36) Cyclohexane	1.302	1.216	1.187	1.139	1.207	1.210	1.218	1.202						1.210	3.73
37) Int 1,4-Difluorobenzene	-----ISTD-----														
38) 1,2-dichloropr...	0.324	0.314	0.314	0.307	0.333	0.334	0.325	0.318						0.321	2.92
39) Bromodichlorom...	0.546	0.536	0.533	0.541	0.578	0.581	0.571	0.552						0.555	3.43
40) Trichloroethene	0.423	0.424	0.414	0.416	0.445	0.436	0.421	0.402						0.423	3.11
42) 1,4-Dioxane	0.184	0.184	0.198	0.180	0.199	0.197	0.186	0.167						0.187	5.85
44) Heptane	0.439	0.419	0.410	0.401	0.427	0.427	0.411	0.399						0.417	3.37
45) cis-1,3-Dichlo...	0.464	0.459	0.467	0.462	0.495	0.496	0.486	0.473						0.475	3.15

Response Factor Report Chem39

Method Path : H:\AIR2023\CHEM39\Methods\

Method File : 39_AIR_0413.M

Title : VOA Standards for 5 point calibration

46)	4-Methyl-2-pen...	0.550	0.527	0.539	0.504	0.543	0.545	0.515	0.497	0.527	3.82
47)	trans-1,3-Dich...	0.417	0.415	0.413	0.409	0.440	0.450	0.449	0.442	0.429	4.05
48)	1,1,2-Trichlor...	0.361	0.371	0.352	0.344	0.377	0.376	0.369	0.360	0.364	3.17
49)	Toluene	1.139	1.074	1.063	1.050	1.129	1.119	1.090	1.053	1.090	3.23
50)	Dibromochlorom...	0.686	0.666	0.658	0.664	0.728	0.732	0.723	0.709	0.696	4.43
51)	2-Hexanone(MBK)	0.478	0.476	0.507	0.484	0.521	0.523	0.508	0.497	0.499	3.70
52)	1,2-Dibromoeth...	0.600	0.587	0.588	0.573	0.624	0.624	0.614	0.600	0.601	3.07
53)	Tetrachloroethene	0.617	0.604	0.590	0.584	0.639	0.632	0.625	0.606	0.612	3.18

54)	Int Chlorobenzene-d5	-----ISTD-----									
55)	1,1,1,2-Tetrac...	0.992	0.944	0.896	0.899	0.986	0.953	0.905	0.853	0.929	5.19
56)	Chlorobenzene	1.957	1.885	1.785	1.740	1.869	1.812	1.697	1.581	1.791	6.63
57)	Ethylbenzene	3.030	2.913	2.842	2.776	2.687	2.892	2.829	2.630	2.782	6.32
58)	m,p-Xylene	2.370	2.247	2.229	1.737	2.100	2.276	2.202	2.022	2.112	10.09
59)	qfi Bromoform		0.189	0.465	0.916	2.292	5.048	10.19	25.41	Coef R2	1.00
60)	Styrene		1.798	1.791	1.732	1.673	1.812	1.763	1.662	1.724	5.02
61)	1,1,2,2-Tetrac...		1.683	1.682	1.607	1.509	1.690	1.651	1.507	1.587	7.32
62)	o-Xylene	2.350	2.349	2.296	2.192	2.125	2.294	2.210	2.032	2.191	7.31
63)	Surr% Bromofluorob...		1.440	1.440	1.428	1.427	1.407	1.394	1.322	1.393	4.15
65)	Isopropylbenzene		3.243	3.129	3.005	2.959	3.204	3.087	2.836	3.009	6.95
67)	4-Ethyltoluene		3.509	3.247	3.155	3.033	3.420	3.280	3.073	3.186	7.31
68)	1,3,5-Trimethy...		2.688	2.806	2.580	2.494	2.771	2.712	2.417	2.592	7.25
69)	1,2,4-Trimethy...		2.813	2.773	2.589	2.508	2.872	2.755	2.495	2.629	8.21
71)	Benzyl chloride		2.155	2.161	2.071	1.929	2.357	2.263	2.127	2.134	6.34
72)	1,3-Dichlorobe...		2.116	1.953	1.915	1.782	2.173	2.063	1.979	1.973	7.11
73)	1,4-Dichlorobe...		2.145	2.105	1.868	1.736	2.048	2.005	1.793	1.920	9.44
74)	sec-Butylbenzene		4.033	3.946	3.775	3.659	4.001	3.837	3.401	3.708	9.37
75)	4-Isopropyltol...		3.746	3.673	3.559	3.432	3.807	3.644	3.285	3.515	7.86
76)	1,2-Dichlorobe...		1.924	1.884	1.737	1.623	2.062	1.989	1.860	1.853	7.79
77)	n-Butylbenzene		3.022	3.017	2.990	2.817	3.221	3.090	2.780	2.937	7.07
78)	1,2,4-Trichlor...		1.304	1.285	1.603	1.281	1.716	1.696	1.643	1.509	12.54
80)	Hexachlorobuta...		1.297	1.231	1.301	1.180	1.657	1.605	1.563	1.412	12.97

81)	int Bromochloromethane...	-----ISTD-----											
82)	1,2-Dichlorote...	2.194	2.147	2.255	2.245	2.162	2.110	2.086	2.257	2.292	2.488	2.224	5.18
83)	Vinyl Chloride...	0.789	0.796	0.777	0.756	0.753	0.744	0.732	0.798	0.791	0.816	0.775	3.53
84)	Bromomethane(sim)	0.870	0.917	1.039	0.908	0.851	0.872	0.800	0.862	0.915	0.816	0.885	7.55
85)	Trichlorofluor...	2.131	2.193	2.316	2.165	2.132	2.103	2.096	2.265	2.155	2.233	2.179	3.33
86)	1,2-Dichloroet...	1.091	1.195	1.066	1.120	1.099	1.073	1.077	1.163	1.143	1.129	1.116	3.80
87)	1,1,1-Trichlor...	2.033	2.110	2.105	2.054	2.003	2.003	1.999	2.170	2.140	2.077	2.069	2.94
88)	Benzene(sim)	4.257	4.163	3.937	3.407	3.203	3.168	3.085				3.603	13.92
89)	Carbon Tetrach...	2.059	2.095	2.119	2.058	2.054	2.030	2.025		2.083	2.133	2.073	1.80
90)	1,1-Dichloroet...	1.270	1.374	1.397	1.256	1.229	1.190	1.198	1.299	1.286	1.245	1.274	5.36
91)	Trichlorotrifl...	1.807	1.847	2.119	1.833	1.807	1.793	1.770	1.909	1.845	2.019	1.875	5.95
92)	Trans-1,2-Dich...	1.256	1.395	1.412	1.330	1.302	1.296	1.282	1.406	1.359	1.364	1.340	4.11
93)	1,1-Dichloroet...	1.661	1.718	1.724	1.685	1.654	1.649	1.633	1.768	1.658	1.738	1.689	2.68
94)	Cis-1,2-Dichlo...	1.323	1.315	1.353	1.284	1.262	1.242	1.217	1.325	1.290	1.205	1.282	3.84
95)	Chloroform(sim)	2.365	2.365	2.246	2.084	2.023	1.994	1.970	2.127	2.798		2.219	11.88

96) int 1,4-Difluorobenzen... -----ISTD-----

Response Factor Report Chem39

Method Path : H:\AIR2023\CHEM39\Methods\ Method File : 39_AIR_0413.M Title : VOA_Standards for 5 point calibration													
97)	1,2-dichloropr...	0.321	0.329	0.340	0.316	0.313	0.314	0.309	0.335	0.327	0.369	0.327	5.39
98)	Bromodichlorom...	0.610	0.558	0.645	0.552	0.541	0.534	0.541	0.579	0.570	0.591	0.572	6.16
99)	Trichloroethen...	0.411	0.416	0.420	0.404	0.405	0.401	0.398	0.427	0.433	0.453	0.417	4.10
100)	1,4-Dioxane(sim)			0.203	0.184	0.184	0.198	0.180	0.199			0.192	4.98
101)	cis-1,3-Dichlo...	0.475	0.465	0.479	0.464	0.470	0.470	0.467		0.472	0.513	0.475	3.14
102)	1,1,2-Trichlor...	0.369	0.397	0.383	0.361	0.371	0.352	0.345	0.377	0.409	0.326	0.369	6.65
103)	Dibromochlorom...	0.646	0.646	0.640	0.629	0.627	0.625	0.627		0.661	0.681	0.642	2.89
104)	1,2-Dibromoeth...	0.603	0.700	0.619	0.597	0.590	0.584	0.573	0.624	0.607	0.595	0.609	5.82
105)	Tetrachloroeth...	0.682	0.675	0.597	0.569	0.565	0.551	0.550	0.599	0.672	0.715	0.615	9.67
106)	int Chlorobenzene-d5(sim)	-----ISTD-----											
107)	Bromoform(sim)	1.470	1.495	1.478	1.418	1.398	1.360	1.365		1.528	1.738	1.472	7.84
108)	m,p-Xylene(sim)			2.391	2.257	2.237	2.175	2.108	2.279			2.241	4.29
109)	1,1,2,2-Tetrac...	1.717	1.778	1.676	1.662	1.635	1.576	1.497	1.665	1.885	2.028	1.712	8.94
112)	Benzyl chlorid...	2.315	2.284	2.167	2.155	2.161	2.064	1.929		2.550	2.918	2.282	12.90
113)	1,3-Dichlorobe...	2.140	2.115	2.057	2.027	2.048	1.968	1.851	2.258	2.308	2.804	2.158	12.18
114)	qfi 1,4-Dichlorobe...	0.062	0.072	0.112	0.193	0.490	0.907	2.562				Coef R2	1.00
115)	sec-Butylbenze...	3.119	3.060	2.974	2.889	2.864	2.685	2.593	2.981	3.320		2.943	7.48
116)	4-Isopropyltol...	4.434	4.053	3.866	3.741	3.691	3.554	3.424	3.805			3.821	8.18
117)	1,2-Dichlorobe...	2.132	2.088	1.980	1.915	1.891	1.758	1.636	2.090	2.298		1.976	10.24
118)	n-Butylbenzene...		3.466	3.178	3.035	3.017	2.985	2.817				3.083	7.15
119)	1,2,4-Trichlor...	1.946	1.714	1.313	1.287	1.267	1.603	1.263				1.485	18.35
121)	qfi Hexachlorobuta...	0.046	0.060	0.101	0.191	0.461	1.009	2.506		0.033		Coef R2	1.00

(#,\$,@)=Out of Range l=linear lf=linear(0,0) q=Quadratic qf=Quadratic(0,0)													

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM20
Heated Purge (Y/N): Y
GC Column: _____

Client: FPMGROUP
SDG No.: GCN84181
Calibration Date From: 04/10/23 12:38
Calibration Date Thru: 04/10/23 16:24
Method File: 20_AIR_0410.M

Laboratory File Ids

RRF1	<u>0410_04.D</u>	RRF2	<u>0410_05.D</u>	RRF3	<u>0410_06.D</u>	RRF4	<u>0410_07.D</u>	RRF5	<u>0410_08.D</u>	RRF6	<u>0410_09.D</u>
RRF7	<u>0410_10.D</u>	RRF8	<u>0410_15.D</u>	RRF9	<u>0410_11.D</u>	RRF10	<u>0410_12.D</u>	RRF11	<u>0410_16.D</u>	RRF12	<u>0410_13.D</u>
RRF13	<u>0410_14.D</u>										

COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD
Propylene						1.384	1.244	1.166	1.156	1.286	1.201	1.171	1.161	1.221	6.55
Dichlorodifluoromethane						2.862	2.365	2.282	2.219	2.456	2.268	2.220	2.204	2.360	9.33
Chloromethane						1.520	1.217	1.294	1.172	1.294	1.244	1.195	1.180	1.264	8.97
1,2-Dichlorotetrafluoroethane						2.408	2.235	2.148	2.092	2.345	2.157	2.080	2.102	2.196	5.60
Vinyl Chloride						1.087	1.019	0.958	0.960	1.074	0.995	0.970	0.970	1.004	5.11
1,3-Butadiene						1.282	0.982	1.051	0.943	1.045	0.955	0.941	0.948	1.018	11.32
Bromomethane						0.995	0.824	0.802	0.778	0.846	0.787	0.778	0.776	0.823	8.98
Chloroethane						0.596	0.518	0.435	0.425	0.450	0.438	0.413	0.423	0.462	13.62
Ethanol						0.750	0.564	0.422	0.393	0.415	0.375	0.372	0.359	0.456	29.65
Acetone						2.807	2.323	2.282	2.134	2.340	2.199	2.145	2.150	2.297	9.64
Trichlorofluoromethane						2.563	2.466	2.392	2.294	2.832	2.687	2.439	2.553	2.528	6.77
Isopropylalcohol						1.863	1.368	1.707	2.123	2.367	2.441	2.260	2.337	2.058	18.39
Acrylonitrile						1.029	0.950	0.978	0.947	1.020	0.972	0.965	0.986	0.981	3.07
1,1-Dichloroethene						1.899	1.758	1.814	1.789	1.977	1.856	1.798	1.804	1.837	3.86
Methylene Chloride						1.916	1.748	1.709	1.667	1.816	1.703	1.646	1.668	1.734	5.28
Carbon Disulfide						2.422	2.271	2.234	2.154	2.414	2.270	2.221	2.250	2.279	4.08
Trichlorotrifluoroethane						2.004	1.838	1.801	1.783	1.963	1.843	1.820	1.822	1.859	4.30
Trans-1,2-Dichloroethene						1.972	1.619	1.701	1.723	1.879	1.703	1.664	1.674	1.742	6.90
1,1-Dichloroethane						2.191	2.013	2.030	1.956	2.230	1.886	2.002	1.836	2.018	6.75
Methyl tert-butyl ether(MTBE)						2.582	2.490	2.464	2.427	2.741	2.329	2.468	2.281	2.473	5.80
Methyl Ethyl Ketone						3.466	3.450	3.383	3.165	4.025	3.712	3.583	3.276	3.507	7.67
Cis-1,2-Dichloroethene						1.921	1.703	1.671	1.675	1.863	1.753	1.715	1.737	1.755	5.16
Hexane						2.335	2.180	2.035	1.997	2.275	2.097	2.088	2.093	2.138	5.48
Chloroform						2.172	2.073	2.051	2.025	2.284	2.115	2.094	2.118	2.117	3.85

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM20
Heated Purge (Y/N): Y
GC Column: _____

Client: FPMGROUP
SDG No.: GCN84181
Calibration Date From: 04/10/23 12:38
Calibration Date Thru: 04/10/23 16:24
Method File: 20_AIR_0410.M

Laboratory File Ids

RRF1	<u>0410_04.D</u>	RRF2	<u>0410_05.D</u>	RRF3	<u>0410_06.D</u>	RRF4	<u>0410_07.D</u>	RRF5	<u>0410_08.D</u>	RRF6	<u>0410_09.D</u>				
RRF7	<u>0410_10.D</u>	RRF8	<u>0410_15.D</u>	RRF9	<u>0410_11.D</u>	RRF10	<u>0410_12.D</u>	RRF11	<u>0410_16.D</u>	RRF12	<u>0410_13.D</u>				
RRF13	<u>0410_14.D</u>														
COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD
Ethyl acetate						0.588	0.537	0.518	0.495	0.562	0.525	0.516	0.516	0.532	5.60
Tetrahydrofuran						2.422	1.900	1.898	1.863	2.058	1.943	1.918	1.927	1.991	9.20
1,2-Dichloroethane						1.568	1.574	1.582	1.569	1.740	1.648	1.635	1.651	1.621	3.70
1,1,1-Trichloroethane						2.340	2.439	2.451	2.380	2.712	2.579	2.502	2.559	2.495	4.81
Benzene					3.481	3.062	2.789	2.874	2.781	3.093	2.956	2.881	2.903	2.980	7.26
Carbon Tetrachloride						1.919	1.935	2.066	2.102	2.391	2.281	2.311	2.361	2.171	8.73
Cyclohexane						1.349	1.179	1.173	1.114	1.240	1.136	1.136	1.133	1.182	6.61
1,2-dichloropropane						0.432	0.382	0.379	0.367	0.419	0.387	0.385	0.382	0.392	5.62
Bromodichloromethane						0.643	0.565	0.586	0.570	0.640	0.606	0.603	0.611	0.603	4.80
Trichloroethene						0.418	0.401	0.424	0.397	0.454	0.410	0.402	0.395	0.412	4.73
1,4-Dioxane						0.180	0.180	0.179	0.169	0.172	0.156	0.154	0.151	0.168	7.31
Heptane						0.871	0.840	0.871	0.830	0.950	0.865	0.863	0.852	0.868	4.20
cis-1,3-Dichloropropene						0.476	0.435	0.457	0.427	0.491	0.458	0.462	0.467	0.459	4.49
4-Methyl-2-pentanone(MIBK)						1.152	1.115	1.140	1.081	1.223	1.149	1.120	1.108	1.136	3.75
trans-1,3-Dichloropropene						0.440	0.419	0.424	0.406	0.457	0.438	0.435	0.442	0.432	3.69
1,1,2-Trichloroethane						0.347	0.350	0.382	0.340	0.385	0.356	0.352	0.357	0.359	4.59
Toluene						1.119	1.031	1.055	0.998	1.130	1.051	1.037	1.027	1.056	4.34
Dibromochloromethane						0.630	0.577	0.636	0.585	0.724	0.688	0.712	0.722	0.659	9.14
2-Hexanone(MBK)						0.991	0.995	1.032	0.969	1.129	1.083	1.056	1.055	1.039	5.10
1,2-Dibromoethane(EDB)						0.619	0.576	0.602	0.554	0.642	0.588	0.588	0.601	0.596	4.46
Tetrachloroethene						0.636	0.533	0.565	0.533	0.606	0.553	0.549	0.554	0.566	6.42
1,1,1,2-Tetrachloroethane						1.070	0.925	0.993	0.938	1.071	0.973	0.891	0.830	0.961	8.70
Chlorobenzene						1.987	1.772	1.876	1.728	1.980	1.758	1.587	1.458	1.768	10.38
Ethylbenzene					3.445	2.912	2.882	2.973	2.745	3.134	2.762	2.459	2.279	2.844	12.12

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM20
Heated Purge (Y/N): Y
GC Column: _____

Client: FPMGROUP
SDG No.: GCN84181
Calibration Date From: 04/10/23 12:38
Calibration Date Thru: 04/10/23 16:24
Method File: 20_AIR_0410.M

Laboratory File Ids

RRF1	<u>0410_04.D</u>	RRF2	<u>0410_05.D</u>	RRF3	<u>0410_06.D</u>	RRF4	<u>0410_07.D</u>	RRF5	<u>0410_08.D</u>	RRF6	<u>0410_09.D</u>				
RRF7	<u>0410_10.D</u>	RRF8	<u>0410_15.D</u>	RRF9	<u>0410_11.D</u>	RRF10	<u>0410_12.D</u>	RRF11	<u>0410_16.D</u>	RRF12	<u>0410_13.D</u>				
RRF13	<u>0410_14.D</u>														
COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD
m,p-Xylene					2.507	2.276	2.193	1.809	2.079	2.435	2.156	1.927	1.750	2.126	12.35
Bromoform						1.247	1.220	1.290	1.206	1.449	1.327	1.288	1.217	1.281	6.27
Styrene						1.703	1.735	1.820	1.622	1.895	1.674	1.526	1.421	1.674	9.12
1,1,2,2-Tetrachloroethane						1.709	1.627	1.721	1.567	1.859	1.665	1.482	1.338	1.621	9.85
o-Xylene					2.770	2.490	2.351	2.294	2.170	2.481	2.195	1.975	1.812	2.282	12.59
Isopropylbenzene						3.435	3.171	3.251	2.993	3.469	3.070	2.722	2.501	3.076	10.89
4-Ethyltoluene						3.412	3.160	3.254	3.266	3.653	3.215	2.888	2.619	3.183	9.88
1,3,5-Trimethylbenzene						3.070	2.826	2.793	2.295	3.050	2.745	2.442	2.249	2.684	11.94
1,2,4-Trimethylbenzene						2.905	2.731	2.807	2.613	3.152	2.807	2.503	2.282	2.725	9.67
Benzyl chloride						1.811	1.885	2.046	1.854	2.543	2.299	2.104	1.904	2.056	12.36
1,3-Dichlorobenzene						1.925	1.875	2.071	1.716	2.269	2.023	1.775	1.632	1.911	10.87
1,4-Dichlorobenzene						1.950	1.778	1.948	1.679	2.075	1.860	1.674	1.559	1.815	9.57
sec-Butylbenzene						4.256	3.812	3.941	3.636	4.287	3.843	3.448	3.098	3.790	10.51
4-Isopropyltoluene						3.849	3.726	3.759	3.458	4.174	3.745	3.356	3.028	3.637	9.58
1,2-Dichlorobenzene						1.876	1.871	1.861	1.571	2.147	1.914	1.718	1.583	1.818	10.43
n-Butylbenzene						3.138	2.991	3.087	2.789	3.466	3.151	2.830	2.550	3.000	9.28
1,2,4-Trichlorobenzene						0.803	0.788	1.352	0.848	1.523	1.491	1.406	1.331	1.193	26.93
Hexachlorobutadiene						1.093	0.931	1.151	0.913	1.610	1.413	1.295	1.203	1.201	19.68
1,2-Dichlorotetrafluoroethane(sim)	2.782	2.102	2.039	2.108	2.654	2.218	2.050	1.988	1.913	2.168				2.202	13.01
Vinyl Chloride(sim)	1.366	0.983	1.037	0.993	1.185	1.029	0.962	0.976	0.946	1.060				1.054	12.27
Bromomethane(sim)		0.913	0.834	0.821	1.399	0.917	0.757	0.746	0.713	0.783				0.876	23.81
Trichlorofluoromethane(sim)	2.913	2.265	2.238	2.322	2.640	2.402	2.204	2.239	2.133	2.366				2.372	9.94
1,2-Dichloroethane(sim)	2	1.631	1.776	1.574	1.857	1.444	1.446	1.471	1.439	1.612				1.625	12.02
1,1,1-Trichloroethane(sim)	2.623	2.103	2.044	2.127	2.427	2.180	2.039	2.126	2.040	2.366				2.208	8.99

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM20
Heated Purge (Y/N): Y
GC Column: _____

Client: FPMGROUP
SDG No.: GCN84181
Calibration Date From: 04/10/23 12:38
Calibration Date Thru: 04/10/23 16:24
Method File: 20_AIR_0410.M

Laboratory File Ids

RRF1	<u>0410_04.D</u>	RRF2	<u>0410_05.D</u>	RRF3	<u>0410_06.D</u>	RRF4	<u>0410_07.D</u>	RRF5	<u>0410_08.D</u>	RRF6	<u>0410_09.D</u>				
RRF7	<u>0410_10.D</u>	RRF8	<u>0410_15.D</u>	RRF9	<u>0410_11.D</u>	RRF10	<u>0410_12.D</u>	RRF11	<u>0410_16.D</u>	RRF12	<u>0410_13.D</u>				
RRF13	<u>0410_14.D</u>														
COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD
Benzene(sim)	4.277	3.245	3.022	2.961	3.197	2.820	2.561	2.673	2.551					3.034	17.50
Carbon Tetrachloride(sim)	2.134	1.713	1.868	1.801	2.175	1.978	1.922	2.027	2.020					1.960	7.67
1,1-Dichloroethene(sim)	2.304	2.134	1.853	1.794	2.102	1.748	1.615	1.687	1.641	1.831				1.871	12.41
Trichlorotrifluoroethane(sim)	2.114	1.921	1.809	1.757	2.304	1.862	1.742	1.769	1.705	1.920				1.890	9.97
Trans-1,2-Dichloroethene(sim)	2.005	1.807	1.677	1.750	2.134	1.816	1.487	1.582	1.581	1.741				1.758	11.23
1,1-Dichloroethane(sim)	2.292	1.965	2.042	2.100	2.358	2.091	1.984	2.020	1.948	2.200				2.100	6.70
Cis-1,2-Dichloroethene(sim)	2.731	1.882	1.781	1.797	1.834	1.769	1.564	1.554	1.536	1.726				1.817	18.91
Chloroform(sim)	2.514	2.069	1.907	1.992	2.328	2.082	1.941	1.996	1.922	2.176				2.093	9.37
1,2-dichloropropane(sim)	0.612	0.525	0.427	0.449	0.497	0.437	0.404	0.417	0.397	0.454				0.462	14.33
Bromodichloromethane(sim)	0.823	0.875	0.578	0.588	0.769	0.643	0.571	0.589	0.571	0.640				0.665	17.23
Trichloroethene(sim)	0.786	0.494	0.489	0.481	0.530	0.475	0.442	0.453	0.429	0.486				0.506	20.19
1,4-Dioxane(sim)				0.211	0.240	0.180	0.180	0.180	0.169	0.172				0.190	13.55
cis-1,3-Dichloropropene(sim)	0.623	0.501	0.475	0.482	0.570	0.516	0.474	0.496	0.466					0.511	10.22
1,1,2-Trichloroethane(sim)	0.591	0.499	0.381	0.429	0.453	0.347	0.350	0.383	0.340	0.386				0.416	19.15
Dibromochloromethane(sim)	1.259	0.707	0.637	0.664	0.791	0.696	0.633	0.692	0.651					0.748	26.42
1,2-Dibromoethane(EDB)(sim)	0.933	0.631	0.523	0.636	0.671	0.619	0.575	0.604	0.553	0.643				0.639	17.62
Tetrachloroethene(sim)		1.015	0.862	0.826	0.799	0.687	0.637	0.642	0.610	0.698	0.645			0.742	17.54
Bromoform(sim)		1.621	1.525	1.450	1.718	1.452	1.384	1.516	1.335					1.500	8.30
m,p-Xylene(sim)		2.740	2.325	2.333	2.610	2.392	2.236	2.321	2.111	2.467				2.393	7.96
1,1,2,2-Tetrachloroethane(sim)	2.584	1.951	1.815	1.754	2.108	1.832	1.731	1.809	1.624	1.924				1.913	14.14
Benzyl chloride(sim)		2.640	2.585	2.023	2.142	1.811	1.884	2.043	1.855					2.123	15.15
1,3-Dichlorobenzene(sim)		2.260	2.131	2.069	2.468	2.225	2.179	2.323	1.938	2.623				2.246	9.20
1,4-Dichlorobenzene(sim)		2.562	2.865	2.709	2.358	1.949	1.787	1.948	1.679					2.232	20.17
sec-Butylbenzene(sim)	7.112	4.574	4.404	4.273	5.106	4.525	4.275	4.387	4.049	4.707				4.741	18.58

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM20
 Heated Purge (Y/N): Y
 GC Column: _____

Client: FPMGROUP
 SDG No.: GCN84181
 Calibration Date From: 04/10/23 12:38
 Calibration Date Thru: 04/10/23 16:24
 Method File: 20_AIR_0410.M

Laboratory File Ids

RRF1	<u>0410_04.D</u>	RRF2	<u>0410_05.D</u>	RRF3	<u>0410_06.D</u>	RRF4	<u>0410_07.D</u>	RRF5	<u>0410_08.D</u>	RRF6	<u>0410_09.D</u>	RRF7	<u>0410_10.D</u>	RRF8	<u>0410_11.D</u>	RRF9	<u>0410_12.D</u>	RRF10	<u>0410_13.D</u>	RRF11	<u>0410_14.D</u>	RRF12	<u>0410_15.D</u>	RRF13	<u>0410_16.D</u>	RRF14	<u>0410_17.D</u>	RRF15	<u>0410_18.D</u>	RRF16	<u>0410_19.D</u>	RRF17	<u>0410_20.D</u>	RRF18	<u>0410_21.D</u>	RRF19	<u>0410_22.D</u>	RRF20	<u>0410_23.D</u>	RRF21	<u>0410_24.D</u>	RRF22	<u>0410_25.D</u>	RRF23	<u>0410_26.D</u>	RRF24	<u>0410_27.D</u>	RRF25	<u>0410_28.D</u>	RRF26	<u>0410_29.D</u>	RRF27	<u>0410_30.D</u>	RRF28	<u>0410_31.D</u>	RRF29	<u>0410_32.D</u>	RRF30	<u>0410_33.D</u>	RRF31	<u>0410_34.D</u>	RRF32	<u>0410_35.D</u>	RRF33	<u>0410_36.D</u>	RRF34	<u>0410_37.D</u>	RRF35	<u>0410_38.D</u>	RRF36	<u>0410_39.D</u>	RRF37	<u>0410_40.D</u>	RRF38	<u>0410_41.D</u>	RRF39	<u>0410_42.D</u>	RRF40	<u>0410_43.D</u>	RRF41	<u>0410_44.D</u>	RRF42	<u>0410_45.D</u>	RRF43	<u>0410_46.D</u>	RRF44	<u>0410_47.D</u>	RRF45	<u>0410_48.D</u>	RRF46	<u>0410_49.D</u>	RRF47	<u>0410_50.D</u>	RRF48	<u>0410_51.D</u>	RRF49	<u>0410_52.D</u>	RRF50	<u>0410_53.D</u>	RRF51	<u>0410_54.D</u>	RRF52	<u>0410_55.D</u>	RRF53	<u>0410_56.D</u>	RRF54	<u>0410_57.D</u>	RRF55	<u>0410_58.D</u>	RRF56	<u>0410_59.D</u>	RRF57	<u>0410_60.D</u>	RRF58	<u>0410_61.D</u>	RRF59	<u>0410_62.D</u>	RRF60	<u>0410_63.D</u>	RRF61	<u>0410_64.D</u>	RRF62	<u>0410_65.D</u>	RRF63	<u>0410_66.D</u>	RRF64	<u>0410_67.D</u>	RRF65	<u>0410_68.D</u>	RRF66	<u>0410_69.D</u>	RRF67	<u>0410_70.D</u>	RRF68	<u>0410_71.D</u>	RRF69	<u>0410_72.D</u>	RRF70	<u>0410_73.D</u>	RRF71	<u>0410_74.D</u>	RRF72	<u>0410_75.D</u>	RRF73	<u>0410_76.D</u>	RRF74	<u>0410_77.D</u>	RRF75	<u>0410_78.D</u>	RRF76	<u>0410_79.D</u>	RRF77	<u>0410_80.D</u>	RRF78	<u>0410_81.D</u>	RRF79	<u>0410_82.D</u>	RRF80	<u>0410_83.D</u>	RRF81	<u>0410_84.D</u>	RRF82	<u>0410_85.D</u>	RRF83	<u>0410_86.D</u>	RRF84	<u>0410_87.D</u>	RRF85	<u>0410_88.D</u>	RRF86	<u>0410_89.D</u>	RRF87	<u>0410_90.D</u>	RRF88	<u>0410_91.D</u>	RRF89	<u>0410_92.D</u>	RRF90	<u>0410_93.D</u>	RRF91	<u>0410_94.D</u>	RRF92	<u>0410_95.D</u>	RRF93	<u>0410_96.D</u>	RRF94	<u>0410_97.D</u>	RRF95	<u>0410_98.D</u>	RRF96	<u>0410_99.D</u>	RRF97	<u>0410_100.D</u>	RRF98	<u>0410_101.D</u>	RRF99	<u>0410_102.D</u>	RRF100	<u>0410_103.D</u>	RRF101	<u>0410_104.D</u>	RRF102	<u>0410_105.D</u>	RRF103	<u>0410_106.D</u>	RRF104	<u>0410_107.D</u>	RRF105	<u>0410_108.D</u>	RRF106	<u>0410_109.D</u>	RRF107	<u>0410_110.D</u>	RRF108	<u>0410_111.D</u>	RRF109	<u>0410_112.D</u>	RRF110	<u>0410_113.D</u>	RRF111	<u>0410_114.D</u>	RRF112	<u>0410_115.D</u>	RRF113	<u>0410_116.D</u>	RRF114	<u>0410_117.D</u>	RRF115	<u>0410_118.D</u>	RRF116	<u>0410_119.D</u>	RRF117	<u>0410_120.D</u>	RRF118	<u>0410_121.D</u>	RRF119	<u>0410_122.D</u>	RRF120	<u>0410_123.D</u>	RRF121	<u>0410_124.D</u>	RRF122	<u>0410_125.D</u>	RRF123	<u>0410_126.D</u>	RRF124	<u>0410_127.D</u>	RRF125	<u>0410_128.D</u>	RRF126	<u>0410_129.D</u>	RRF127	<u>0410_130.D</u>	RRF128	<u>0410_131.D</u>	RRF129	<u>0410_132.D</u>	RRF130	<u>0410_133.D</u>	RRF131	<u>0410_134.D</u>	RRF132	<u>0410_135.D</u>	RRF133	<u>0410_136.D</u>	RRF134	<u>0410_137.D</u>	RRF135	<u>0410_138.D</u>	RRF136	<u>0410_139.D</u>	RRF137	<u>0410_140.D</u>	RRF138	<u>0410_141.D</u>	RRF139	<u>0410_142.D</u>	RRF140	<u>0410_143.D</u>	RRF141	<u>0410_144.D</u>	RRF142	<u>0410_145.D</u>	RRF143	<u>0410_146.D</u>	RRF144	<u>0410_147.D</u>	RRF145	<u>0410_148.D</u>	RRF146	<u>0410_149.D</u>	RRF147	<u>0410_150.D</u>	RRF148	<u>0410_151.D</u>	RRF149	<u>0410_152.D</u>	RRF150	<u>0410_153.D</u>	RRF151	<u>0410_154.D</u>	RRF152	<u>0410_155.D</u>	RRF153	<u>0410_156.D</u>	RRF154	<u>0410_157.D</u>	RRF155	<u>0410_158.D</u>	RRF156	<u>0410_159.D</u>	RRF157	<u>0410_160.D</u>	RRF158	<u>0410_161.D</u>	RRF159	<u>0410_162.D</u>	RRF160	<u>0410_163.D</u>	RRF161	<u>0410_164.D</u>	RRF162	<u>0410_165.D</u>	RRF163	<u>0410_166.D</u>	RRF164	<u>0410_167.D</u>	RRF165	<u>0410_168.D</u>	RRF166	<u>0410_169.D</u>	RRF167	<u>0410_170.D</u>	RRF168	<u>0410_171.D</u>	RRF169	<u>0410_172.D</u>	RRF170	<u>0410_173.D</u>	RRF171	<u>0410_174.D</u>	RRF172	<u>0410_175.D</u>	RRF173	<u>0410_176.D</u>	RRF174	<u>0410_177.D</u>	RRF175	<u>0410_178.D</u>	RRF176	<u>0410_179.D</u>	RRF177	<u>0410_180.D</u>	RRF178	<u>0410_181.D</u>	RRF179	<u>0410_182.D</u>	RRF180	<u>0410_183.D</u>	RRF181	<u>0410_184.D</u>	RRF182	<u>0410_185.D</u>	RRF183	<u>0410_186.D</u>	RRF184	<u>0410_187.D</u>	RRF185	<u>0410_188.D</u>	RRF186	<u>0410_189.D</u>	RRF187	<u>0410_190.D</u>	RRF188	<u>0410_191.D</u>	RRF189	<u>0410_192.D</u>	RRF190	<u>0410_193.D</u>	RRF191	<u>0410_194.D</u>	RRF192	<u>0410_195.D</u>	RRF193	<u>0410_196.D</u>	RRF194	<u>0410_197.D</u>	RRF195	<u>0410_198.D</u>	RRF196	<u>0410_199.D</u>	RRF197	<u>0410_200.D</u>	RRF198	<u>0410_201.D</u>	RRF199	<u>0410_202.D</u>	RRF200	<u>0410_203.D</u>	RRF201	<u>0410_204.D</u>	RRF202	<u>0410_205.D</u>	RRF203	<u>0410_206.D</u>	RRF204	<u>0410_207.D</u>	RRF205	<u>0410_208.D</u>	RRF206	<u>0410_209.D</u>	RRF207	<u>0410_210.D</u>	RRF208	<u>0410_211.D</u>	RRF209	<u>0410_212.D</u>	RRF210	<u>0410_213.D</u>	RRF211	<u>0410_214.D</u>	RRF212	<u>0410_215.D</u>	RRF213	<u>0410_216.D</u>	RRF214	<u>0410_217.D</u>	RRF215	<u>0410_218.D</u>	RRF216	<u>0410_219.D</u>	RRF217	<u>0410_220.D</u>	RRF218	<u>0410_221.D</u>	RRF219	<u>0410_222.D</u>	RRF220	<u>0410_223.D</u>	RRF221	<u>0410_224.D</u>	RRF222	<u>0410_225.D</u>	RRF223	<u>0410_226.D</u>	RRF224	<u>0410_227.D</u>	RRF225	<u>0410_228.D</u>	RRF226	<u>0410_229.D</u>	RRF227	<u>0410_230.D</u>	RRF228	<u>0410_231.D</u>	RRF229	<u>0410_232.D</u>	RRF230	<u>0410_233.D</u>	RRF231	<u>0410_234.D</u>	RRF232	<u>0410_235.D</u>	RRF233	<u>0410_236.D</u>	RRF234	<u>0410_237.D</u>	RRF235	<u>0410_238.D</u>	RRF236	<u>0410_239.D</u>	RRF237	<u>0410_240.D</u>	RRF238	<u>0410_241.D</u>	RRF239	<u>0410_242.D</u>	RRF240	<u>0410_243.D</u>	RRF241	<u>0410_244.D</u>	RRF242	<u>0410_245.D</u>	RRF243	<u>0410_246.D</u>	RRF244	<u>0410_247.D</u>	RRF245	<u>0410_248.D</u>	RRF246	<u>0410_249.D</u>	RRF247	<u>0410_250.D</u>	RRF248	<u>0410_251.D</u>	RRF249	<u>0410_252.D</u>	RRF250	<u>0410_253.D</u>	RRF251	<u>0410_254.D</u>	RRF252	<u>0410_255.D</u>	RRF253	<u>0410_256.D</u>	RRF254	<u>0410_257.D</u>	RRF255	<u>0410_258.D</u>	RRF256	<u>0410_259.D</u>	RRF257	<u>0410_260.D</u>	RRF258	<u>0410_261.D</u>	RRF259	<u>0410_262.D</u>	RRF260	<u>0410_263.D</u>	RRF261	<u>0410_264.D</u>	RRF262	<u>0410_265.D</u>	RRF263	<u>0410_266.D</u>	RRF264	<u>0410_267.D</u>	RRF265	<u>0410_268.D</u>	RRF266	<u>0410_269.D</u>	RRF267	<u>0410_270.D</u>	RRF268	<u>0410_271.D</u>	RRF269	<u>0410_272.D</u>	RRF270	<u>0410_273.D</u>	RRF271	<u>0410_274.D</u>	RRF272	<u>0410_275.D</u>	RRF273	<u>0410_276.D</u>	RRF274	<u>0410_277.D</u>	RRF275	<u>0410_278.D</u>	RRF276	<u>0410_279.D</u>	RRF277	<u>0410_280.D</u>	RRF278	<u>0410_281.D</u>	RRF279	<u>0410_282.D</u>	RRF280	<u>0410_283.D</u>	RRF281	<u>0410_284.D</u>	RRF282	<u>0410_285.D</u>	RRF283	<u>0410_286.D</u>	RRF284	<u>0410_287.D</u>	RRF285	<u>0410_288.D</u>	RRF286	<u>0410_289.D</u>	RRF287	<u>0410_290.D</u>	RRF288	<u>0410_291.D</u>	RRF289	<u>0410_292.D</u>	RRF290	<u>0410_293.D</u>	RRF291	<u>0410_294.D</u>	RRF292	<u>0410_295.D</u>	RRF293	<u>0410_296.D</u>	RRF294	<u>0410_297.D</u>	RRF295	<u>0410_298.D</u>	RRF296	<u>0410_299.D</u>	RRF297	<u>0410_300.D</u>	RRF298	<u>0410_301.D</u>	RRF299	<u>0410_302.D</u>	RRF300	<u>0410_303.D</u>	RRF301	<u>0410_304.D</u>	RRF302	<u>0410_305.D</u>	RRF303	<u>0410_306.D</u>	RRF304	<u>0410_307.D</u>	RRF305	<u>0410_308.D</u>	RRF306	<u>0410_309.D</u>	RRF307	<u>0410_310.D</u>	RRF308	<u>0410_311.D</u>	RRF309	<u>0410_312.D</u>	RRF310	<u>0410_313.D</u>	RRF311	<u>0410_314.D</u>	RRF312	<u>0410_315.D</u>	RRF313	<u>0410_316.D</u>	RRF314	<u>0410_317.D</u>	RRF315	<u>0410_318.D</u>	RRF316	<u>0410_319.D</u>	RRF317	<u>0410_320.D</u>	RRF318	<u>0410_321.D</u>	RRF319	<u>0410_322.D</u>	RRF320	<u>0410_323.D</u>	RRF321	<u>0410_324.D</u>	RRF322	<u>0410_325.D</u>	RRF323	<u>0410_326.D</u>	RRF324	<u>0410_327.D</u>	RRF325	<u>0410_328.D</u>	RRF326	<u>0410_329.D</u>	RRF327	<u>0410_330.D</u>	RRF328	<u>0410_331.D</u>	RRF329	<u>0410_332.D</u>	RRF330	<u>0410_333.D</u>	RRF331	<u>0410_334.D</u>	RRF332	<u>0410_335.D</u>	RRF333	<u>0410_336.D</u>	RRF334	<u>0410_337.D</u>	RRF335	<u>0410_338.D</u>	RRF336	<u>0410_339.D</u>	RRF337	<u>0410_340.D</u>	RRF338	<u>0410_341.D</u>	RRF339	<u>0410_342.D</u>	RRF340	<u>0410_343.D</u>	RRF341	<u>0410_344.D</u>	RRF342	<u>0410_345.D</u>	RRF343	<u>0410_346.D</u>	RRF344	<u>0410_347.D</u>	RRF345	<u>0410_348.D</u>	RRF346	<u>0410_349.D</u>	RRF347	<u>0410_350.D</u>	RRF348	<u>0410_351.D</u>	RRF349	<u>0410_352.D</u>	RRF350	<u>0410_353.D</u>	RRF351	<u>0410_354.D</u>	RRF352	<u>0410_355.D</u>	RRF353	<u>0410_356.D</u>	RRF354	<u>0410_357.D</u>	RRF355	<u>0410_358.D</u>	RRF356	<u>0410_359.D</u>	RRF357	<u>0410_360.D</u>	RRF358	<u>0410_361.D</u>	RRF359	<u>0410_362.D</u>	RRF360	<u>0410_363.D</u>	RRF361	<u>0410_364.D</u>	RRF362	<u>0410_365.D</u>	RRF363	<u>0410_366.D</u>	RRF364	<u>0410_367.D</u>	RRF365	<u>0410_368.D</u>	RRF366	<u>0410_369.D</u>	RRF367	<u>0410_370.D</u>	RRF368	<u>0410_371.D</u>	RRF369	<u>0410_372.D</u>	RRF370	<u>0410_373.D</u>	RRF371	<u>0410_374.D</u>	RRF372	<u>0410_375.D</u>	RRF373	<u>0410_376.D</u>	RRF374	<u>0410_377.D</u>	RRF375	<u>0410_378.D</u>	RRF376	<u>0410_379.D</u>	RRF377	<u>0410_380.D</u>	RRF378	<u>0410_381.D</u>	RRF379	<u>0410_382.D</u>	RRF380	<u>0410_383.D</u>	RRF381	<u>0410_384.D</u>	RRF382	<u>0410_385.D</u>	RRF383	<u>0410_386.D</u>	RRF384	<u>0410_387.D</u>	RRF385	<u>0410_388.D</u>	RRF386	<u>0410_389.D</u>	RRF387	<u>0410_390.D</u>	RRF388	<u>0410_391.D</u>	RRF389	<u>0410_392.D</u>	RRF390

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_04.D
 Acq On : 10 Apr 2023 10:01 am
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 ppbV ; AirT01501Y
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 13:56:10 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 13:54:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	378148	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1417731	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	642879	10.000	ng	0.00
81) Bromochloromethane(sim)	7.530	130	410543	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1414990	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	642879	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.960	95	888625	9.591	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.90%

Target Compounds						Qvalue
2) Propylene	4.117	41	1627	0.035	ppbv#	87
3) Dichlorodifluoromethane	4.182	85	1912	0.021	ppbv#	68
4) Chloromethane	4.344	50	2320	0.049	ppbv	77
5) 1,2-Dichlorotetrafluor...	4.484	85	779	0.009	ppbv	93
6) Vinyl Chloride	4.527	62	927	0.024	ppbv#	1
7) 1,3-Butadiene	4.645	54	957	0.025	ppbv#	14
8) Bromomethane	4.882	94	1174	0.038	ppbv#	59
9) Chloroethane	5.109	64	379	0.022	ppbv	88
11) Ethanol	5.163	45	1438	0.083	ppbv#	43
12) Acetone	5.529	43	4920	0.057	ppbv#	50
13) Trichlorofluoromethane	5.626	101	1388	0.015	ppbv#	30
14) Isopropylalcohol	5.730	45	4458	0.057	ppbv#	70
15) Acrylonitrile	5.824	53	1815	0.049	ppbv#	73
16) 1,1-Dichloroethene	6.057	61	1598	0.023	ppbv#	42
17) Methylene Chloride	6.143	49	1463	0.022	ppbv#	46
20) Carbon Disulfide	6.376	76	1714	0.020	ppbv#	75
21) Trichlorotrifluoroethane	6.316	101	890	0.013	ppbv#	51
22) Trans-1,2-Dichloroethene	6.762	61	1181	0.018	ppbv#	54
23) 1,1-Dichloroethane	6.896	63	1386	0.018	ppbv#	60
24) Methyl tert-butyl ethe...	6.967	73	1826	0.020	ppbv#	19
26) Methyl Ethyl Ketone	7.172	43	3613	0.027	ppbv#	93
27) Cis-1,2-Dichloroethene	7.421	61	1138	0.017	ppbv#	30
28) Hexane	7.535	57	1368	0.017	ppbv#	58
29) Chloroform	7.608	83	2046	0.026	ppbv#	55
30) Ethyl acetate	0.000	61	0	0.000	ppbv	0
31) Tetrahydrofuran	7.900	42	1426	0.019	ppbv#	78
32) 1,2-Dichloroethane	8.066	62	575	0.009	ppbv#	28
33) 1,1,1-Trichloroethane	8.233	97	2189	0.023	ppbv#	63
34) Benzene	8.498	78	2198	0.020	ppbv#	56
35) Carbon Tetrachloride	8.589	117	1067	0.013	ppbv	95
36) Cyclohexane	8.680	84	1724	0.039	ppbv#	1
38) 1,2-dichloropropane	8.985	63	1788	0.032	ppbv#	72
39) Bromodichloromethane	9.087	83	2024	0.024	ppbv#	54
40) Trichloroethene	9.110	130	1195	0.020	ppbv#	63
42) 1,4-Dioxane	9.155	88	906	0.038	ppbv#	83
44) Heptane	9.245	43	2267	0.018	ppbv#	84
45) cis-1,3-Dichloropropene	9.580	75	884	0.014	ppbv#	49
46) 4-Methyl-2-pentanone(M...	9.629	43	2443	0.015	ppbv#	85
47) trans-1,3-Dichloropropene	9.881	75	1179	0.019	ppbv#	45
48) 1,1,2-Trichloroethane	9.988	97	1498	0.029	ppbv#	77
49) Toluene	10.153	91	3544	0.024	ppbv#	88
50) Dibromochloromethane	10.395	129	1393	0.015	ppbv#	69

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_04.D
 Acq On : 10 Apr 2023 10:01 am
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 ppbV ; AirT01501Y
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 13:56:10 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 13:54:27 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.279	43	3355	0.023	ppbv#	90
52)	1,2-Dibromoethane(EDB)	10.541	107	1757	0.021	ppbv	82
53)	Tetrachloroethene	10.774	166	2235	0.028	ppbv	93
55)	1,1,1,2-Tetrachloroethane	11.140	131	1163	0.019	ppbv#	78
56)	Chlorobenzene	11.150	112	2960	0.026	ppbv#	1
57)	Ethylbenzene	11.345	91	3360	0.018	ppbv	90
58)	m,p-Xylene	11.437	91	5047	0.037	ppbv	95
59)	Bromoform	11.519	173	2217	0.027	ppbv#	87
60)	Styrene	11.642	104	3189	0.030	ppbv#	81
61)	1,1,2,2-Tetrachloroethane	11.704	83	1945	0.019	ppbv#	56
62)	o-Xylene	11.704	91	3461	0.024	ppbv	95
65)	Isopropylbenzene	12.022	105	3867	0.020	ppbv#	86
67)	4-Ethyltoluene	12.391	105	3697	0.018	ppbv#	93
68)	1,3,5-Trimethylbenzene	12.421	105	2879	0.017	ppbv#	64
69)	1,2,4-Trimethylbenzene	12.678	105	3914	0.022	ppbv#	85
72)	1,3-Dichlorobenzene	12.801	146	2782	0.023	ppbv#	60
73)	1,4-Dichlorobenzene	12.832	146	4763	0.041	ppbv#	61
74)	sec-Butylbenzene	12.842	105	4805	0.020	ppbv#	95
75)	4-Isopropyltoluene	12.924	119	4079	0.017	ppbv#	71
76)	1,2-Dichlorobenzene	13.058	146	2865	0.025	ppbv#	79
77)	n-Butylbenzene	13.191	91	4212	0.022	ppbv	94
78)	1,2,4-Trichlorobenzene	14.238	180	3705	0.048	ppbv#	92
80)	Hexachlorobutadiene	14.566	225	2688	0.035	ppbv	90
82)	1,2-Dichlorotetrafluor...	4.425	85	1142m	0.013	ppbv	88
83)	Vinyl Chloride(sim)	4.532	62	561	0.013	ppbv	98
84)	Bromomethane(sim)	4.888	94	374m	0.010	ppbv	59
85)	Trichlorofluoromethane...	5.621	101	1196	0.012	ppbv#	90
86)	1,2-Dichloroethane(sim)	8.072	62	821m	0.012	ppbv	28
87)	1,1,1-Trichloroethane(...	8.228	97	1077	0.012	ppbv#	69
88)	Benzene(sim)	8.504	78	1756m	0.014	ppbv	56
89)	Carbon Tetrachloride(sim)	8.595	117	876	0.011	ppbv	94
90)	1,1-Dichloroethene(sim)	6.063	61	946m	0.012	ppbv	42
91)	Trichlorotrifluoroetha...	6.313	101	868	0.011	ppbv#	74
92)	Trans-1,2-Dichloroethe...	6.760	61	823m	0.011	ppbv	47
93)	1,1-Dichloroethane(sim)	6.894	63	941m	0.011	ppbv	51
94)	Cis-1,2-Dichloroethene...	7.426	61	1121m	0.015	ppbv	34
95)	Chloroform(sim)	7.603	83	1032	0.012	ppbv#	65
97)	1,2-dichloropropane(sim)	8.979	63	866	0.013	ppbv#	68
98)	Bromodichloromethane(sim)	9.093	83	1164m	0.012	ppbv	49
99)	Trichloroethene(sim)	9.115	130	1112	0.016	ppbv	95
100)	1,4-Dioxane(sim)	9.160	88	695m	0.026	ppbv	65
101)	cis-1,3-Dichloropropen...	9.595	75	881m	0.012	ppbv	98
102)	1,1,2-Trichloroethane(...	9.993	97	836m	0.014	ppbv	77
103)	Dibromochloromethane(sim)	10.401	129	1781	0.017	ppbv	87
104)	1,2-Dibromoethane(EDB)...	10.547	107	1320m	0.015	ppbv	85
105)	Tetrachloroethene(sim)	10.780	166	2449	0.023	ppbv	99
107)	Bromoform(sim)	11.525	173	2538	0.026	ppbv	98
108)	m,p-Xylene(sim)	11.437	91	5489	0.036	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.699	83	1661m	0.014	ppbv	98
112)	Benzyl chloride(sim)	12.776	91	2510m	0.018	ppbv	79
113)	1,3-Dichlorobenzene(sim)	12.796	146	2999	0.021	ppbv	96
114)	1,4-Dichlorobenzene(sim)	12.838	146	4556m	0.032	ppbv	62
115)	sec-Butylbenzene(sim)	12.838	105	4572	0.015	ppbv	96
116)	4-Isopropyltoluene(sim)	12.930	119	4438m	0.016	ppbv	71
117)	1,2-Dichlorobenzene(sim)	13.053	146	3012	0.022	ppbv	95

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_04.D
Acq On : 10 Apr 2023 10:01 am
Operator :
Client ID : ICAL 0.01
Lab ID : 0.01 ppbV ; AirT01501Y
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 10 13:56:10 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 10 13:54:27 2023
Response via : Initial Calibration

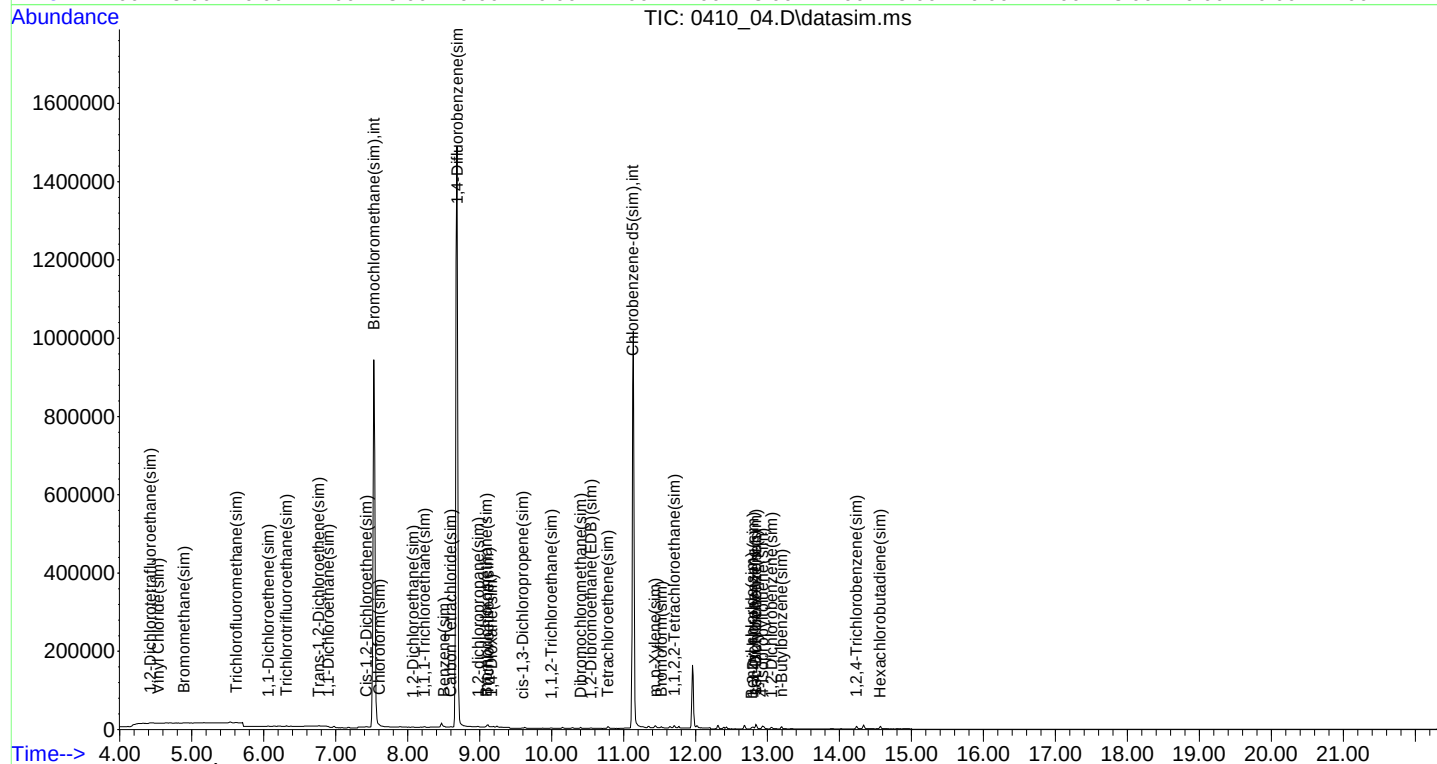
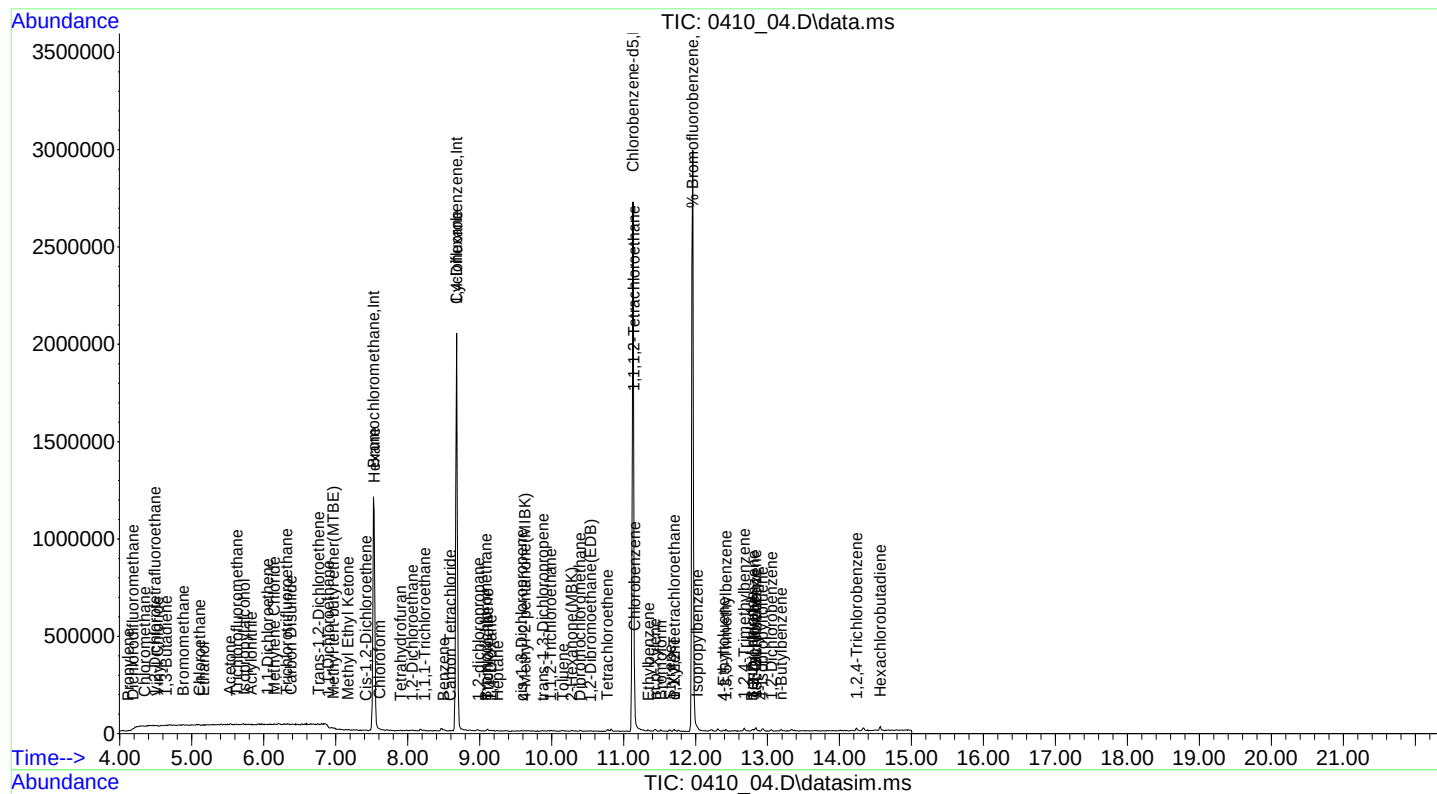
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.197	91	3786m	0.017	ppbv	92
119]	1,2,4-Trichlorobenzene...	14.233	180	4184	0.058	ppbv	96

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

```
Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_04.D
Acq On : 10 Apr 2023 10:01 am
Operator :
Client ID : ICAL 0.01
Lab ID : 0.01 ppbV ; AirT01501Y
ALS Vial : 1 Sample Multiplier: 1
```

Quant Time: Apr 10 13:56:10 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Mon Apr 10 13:54:27 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_05.D
 Acq On : 10 Apr 2023 10:31 am
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ppbV ; AirT01501y
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 10 13:57:12 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 13:56:20 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	390713	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1416269	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	659066	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	417290	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1413487	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	658981	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.960	95	925259	9.741	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.40%

Target Compounds						Qvalue
2) Propylene	4.117	41	1743	0.037	ppbv#	79
3) Dichlorodifluoromethane	4.171	85	3347	0.036	ppbv#	74
4) Chloromethane	4.333	50	1506	0.030	ppbv#	62
5) 1,2-Dichlorotetrafluor...	4.430	85	2537	0.030	ppbv	89
6) Vinyl Chloride	4.516	62	805	0.021	ppbv#	1
7) 1,3-Butadiene	4.656	54	1714	0.043	ppbv	92
8) Bromomethane	4.872	94	1022	0.032	ppbv#	74
9) Chloroethane	5.012	64	734	0.041	ppbv#	20
11) Ethanol	5.152	45	1817	0.102	ppbv#	2
12) Acetone	5.529	43	6945	0.077	ppbv	100
13) Trichlorofluoromethane	5.616	101	1883	0.019	ppbv#	50
14) Isopropylalcohol	5.721	45	2957	0.037	ppbv#	31
15) Acrylonitrile	5.825	53	1406	0.037	ppbv	91
16) 1,1-Dichloroethene	6.057	61	1781	0.025	ppbv#	23
17) Methylene Chloride	6.135	49	1975	0.029	ppbv#	60
20) Carbon Disulfide	6.368	76	2693	0.030	ppbv#	77
21) Trichlorotrifluoroethane	6.316	101	1530	0.021	ppbv#	59
22) Trans-1,2-Dichloroethene	6.762	61	1508	0.022	ppbv#	80
23) 1,1-Dichloroethane	6.896	63	2076	0.026	ppbv	76
24) Methyl tert-butyl ethe...	6.959	73	2701	0.028	ppbv#	42
26) Methyl Ethyl Ketone	7.164	43	3674	0.027	ppbv#	91
27) Cis-1,2-Dichloroethene	7.421	61	1276	0.019	ppbv#	1
28) Hexane	7.535	57	2343	0.028	ppbv#	74
29) Chloroform	7.598	83	2609	0.032	ppbv	86
30) Ethyl acetate	7.546	61	768	0.037	ppbv#	79
31) Tetrahydrofuran	7.900	42	2043	0.026	ppbv#	86
32) 1,2-Dichloroethane	8.067	62	1167	0.018	ppbv#	5
33) 1,1,1-Trichloroethane	8.233	97	2088	0.021	ppbv#	86
34) Benzene	8.510	78	3354	0.029	ppbv#	78
35) Carbon Tetrachloride	8.589	117	1349	0.016	ppbv	81
36) Cyclohexane	8.680	84	3668	0.079	ppbv#	19
38) 1,2-dichloropropane	8.985	63	1208	0.022	ppbv#	23
39) Bromodichloromethane	9.087	83	2475	0.029	ppbv	85
40) Trichloroethene	9.110	130	1488	0.025	ppbv#	81
42) 1,4-Dioxane	9.155	88	1178	0.050	ppbv#	78
44) Heptane	9.234	43	4657	0.038	ppbv#	74
45) cis-1,3-Dichloropropene	9.590	75	1391	0.021	ppbv#	61
46) 4-Methyl-2-pentanone(M...	9.619	43	3770	0.023	ppbv#	93
47) trans-1,3-Dichloropropene	9.871	75	1387	0.023	ppbv#	76
48) 1,1,2-Trichloroethane	9.988	97	1411	0.028	ppbv#	50
49) Toluene	10.153	91	4948	0.033	ppbv#	84
50) Dibromochloromethane	10.396	129	2011	0.022	ppbv#	93

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_05.D
 Acq On : 10 Apr 2023 10:31 am
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ppbV ; AirT01501y
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 10 13:57:12 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 13:56:20 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.289	43	3676	0.025	ppbv#	86
52)	1,2-Dibromoethane(EDB)	10.531	107	1776	0.021	ppbv	99
53)	Tetrachloroethene	10.774	166	2030	0.025	ppbv	93
55)	1,1,1,2-Tetrachloroethane	11.140	131	1380	0.022	ppbv#	95
56)	Chlorobenzene	11.150	112	3112	0.027	ppbv#	1
57)	Ethylbenzene	11.345	91	4804	0.026	ppbv	75
58)	m,p-Xylene	11.437	91	6354	0.045	ppbv	94
59)	Bromoform	11.519	173	1882	0.022	ppbv	91
60)	Styrene	11.642	104	2481	0.022	ppbv#	87
61)	1,1,2,2-Tetrachloroethane	11.704	83	3654	0.034	ppbv#	69
62)	o-Xylene	11.704	91	3690	0.025	ppbv#	89
65)	Isopropylbenzene	12.022	105	4681	0.023	ppbv#	92
67)	4-Ethyltoluene	12.391	105	4530	0.022	ppbv#	86
68)	1,3,5-Trimethylbenzene	12.422	105	4952	0.028	ppbv#	87
69)	1,2,4-Trimethylbenzene	12.678	105	4811	0.027	ppbv	97
72)	1,3-Dichlorobenzene	12.791	146	2660	0.021	ppbv#	50
73)	1,4-Dichlorobenzene	12.832	146	4536	0.038	ppbv#	70
74)	sec-Butylbenzene	12.842	105	6053	0.024	ppbv#	95
75)	4-Isopropyltoluene	12.924	119	5584	0.023	ppbv#	88
76)	1,2-Dichlorobenzene	13.058	146	3165	0.026	ppbv	93
77)	n-Butylbenzene	13.191	91	4775	0.024	ppbv	94
78)	1,2,4-Trichlorobenzene	14.238	180	1938	0.025	ppbv	89
80)	Hexachlorobutadiene	14.566	225	2317	0.029	ppbv	93
82)	1,2-Dichlorotetrafluor...	4.425	85	1754m	0.019	ppbv	87
83)	Vinyl Chloride(sim)	4.533	62	820	0.019	ppbv#	54
84)	Bromomethane(sim)	4.888	94	762m	0.021	ppbv	74
85)	Trichlorofluoromethane...	5.610	101	1890	0.019	ppbv#	95
86)	1,2-Dichloroethane(sim)	8.072	62	1361m	0.020	ppbv	5
87)	1,1,1-Trichloroethane(...	8.229	97	1755	0.019	ppbv#	85
88)	Benzene(sim)	8.504	78	2708m	0.021	ppbv	78
89)	Carbon Tetrachloride(sim)	8.595	117	1430	0.017	ppbv	96
90)	1,1-Dichloroethene(sim)	6.057	61	1781	0.023	ppbv#	1
91)	Trichlorotrifluoroetha...	6.313	101	1603	0.020	ppbv#	76
92)	Trans-1,2-Dichloroethe...	6.762	61	1508	0.021	ppbv#	84
93)	1,1-Dichloroethane(sim)	6.894	63	1640	0.019	ppbv#	89
94)	Cis-1,2-Dichloroethene...	7.416	61	1571m	0.021	ppbv	1
95)	Chloroform(sim)	7.604	83	1727	0.020	ppbv#	74
97)	1,2-dichloropropane(sim)	8.980	63	1485	0.023	ppbv	87
98)	Bromodichloromethane(sim)	9.087	83	2475	0.026	ppbv	86
99)	Trichloroethene(sim)	9.115	130	1396m	0.019	ppbv	95
100)	1,4-Dioxane(sim)	9.149	88	746m	0.028	ppbv	78
101)	cis-1,3-Dichloropropen...	9.586	75	1417	0.020	ppbv#	90
102)	1,1,2-Trichloroethane(...	9.988	97	1411	0.024	ppbv#	50
103)	Dibromochloromethane(sim)	10.401	129	1998	0.019	ppbv	98
104)	1,2-Dibromoethane(EDB)...	10.547	107	1785m	0.020	ppbv	94
105)	Tetrachloroethene(sim)	10.780	166	2870	0.027	ppbv	98
107)	Bromoform(sim)	11.525	173	2136	0.022	ppbv	97
108)	m,p-Xylene(sim)	11.437	91	7223	0.046	ppbv	96
109)	1,1,2,2-Tetrachloroeth...	11.699	83	2572	0.020	ppbv#	97
112)	Benzyl chloride(sim)	12.781	91	3480	0.025	ppbv	87
113)	1,3-Dichlorobenzene(sim)	12.797	146	2978	0.020	ppbv	96
114)	1,4-Dichlorobenzene(sim)	12.838	146	3376m	0.023	ppbv	71
115)	sec-Butylbenzene(sim)	12.838	105	6029	0.019	ppbv	97
116)	4-Isopropyltoluene(sim)	12.930	119	5840m	0.021	ppbv	88
117)	1,2-Dichlorobenzene(sim)	13.053	146	3065	0.022	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_05.D
 Acq On : 10 Apr 2023 10:31 am
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ppbV ; AirT01501y
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 10 13:57:12 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Apr 10 13:56:20 2023
 Response via : Initial Calibration

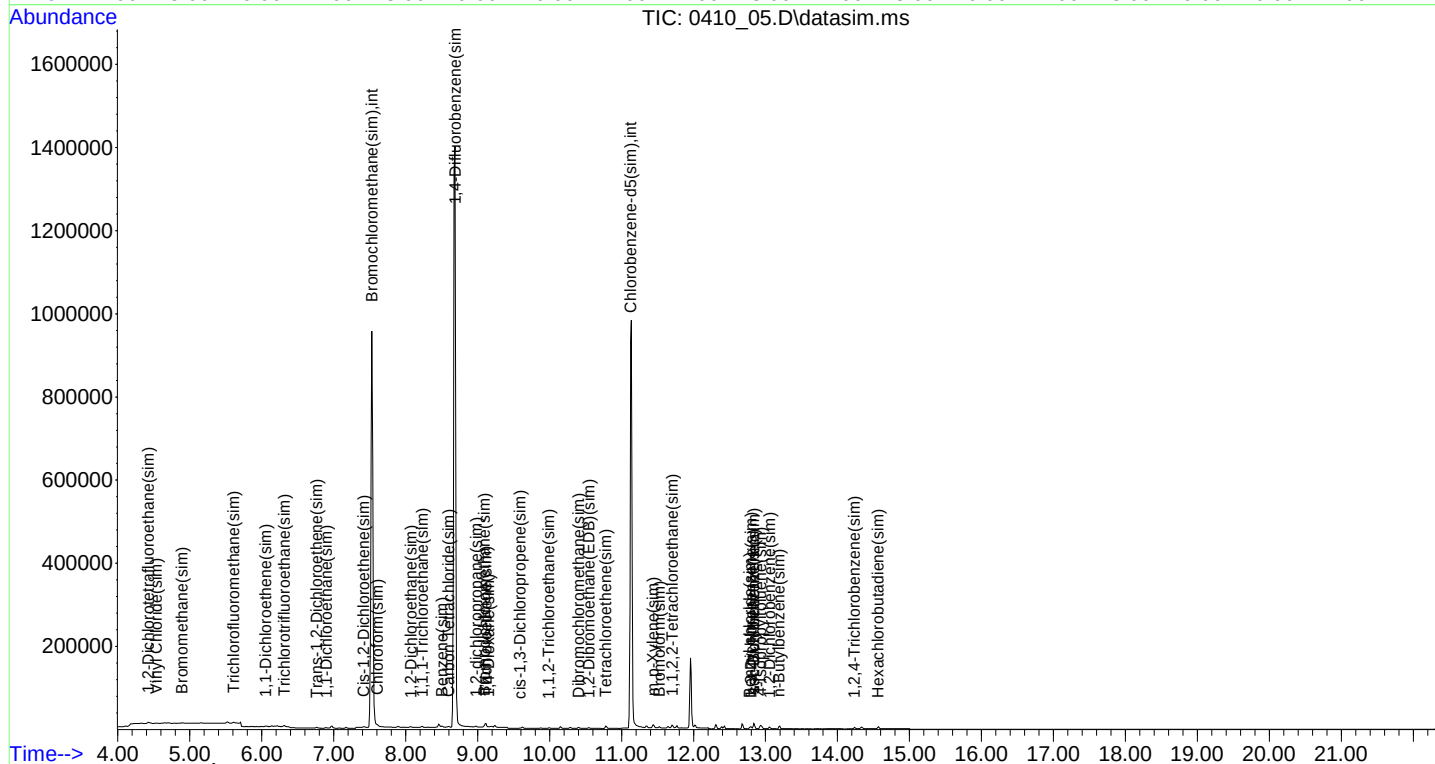
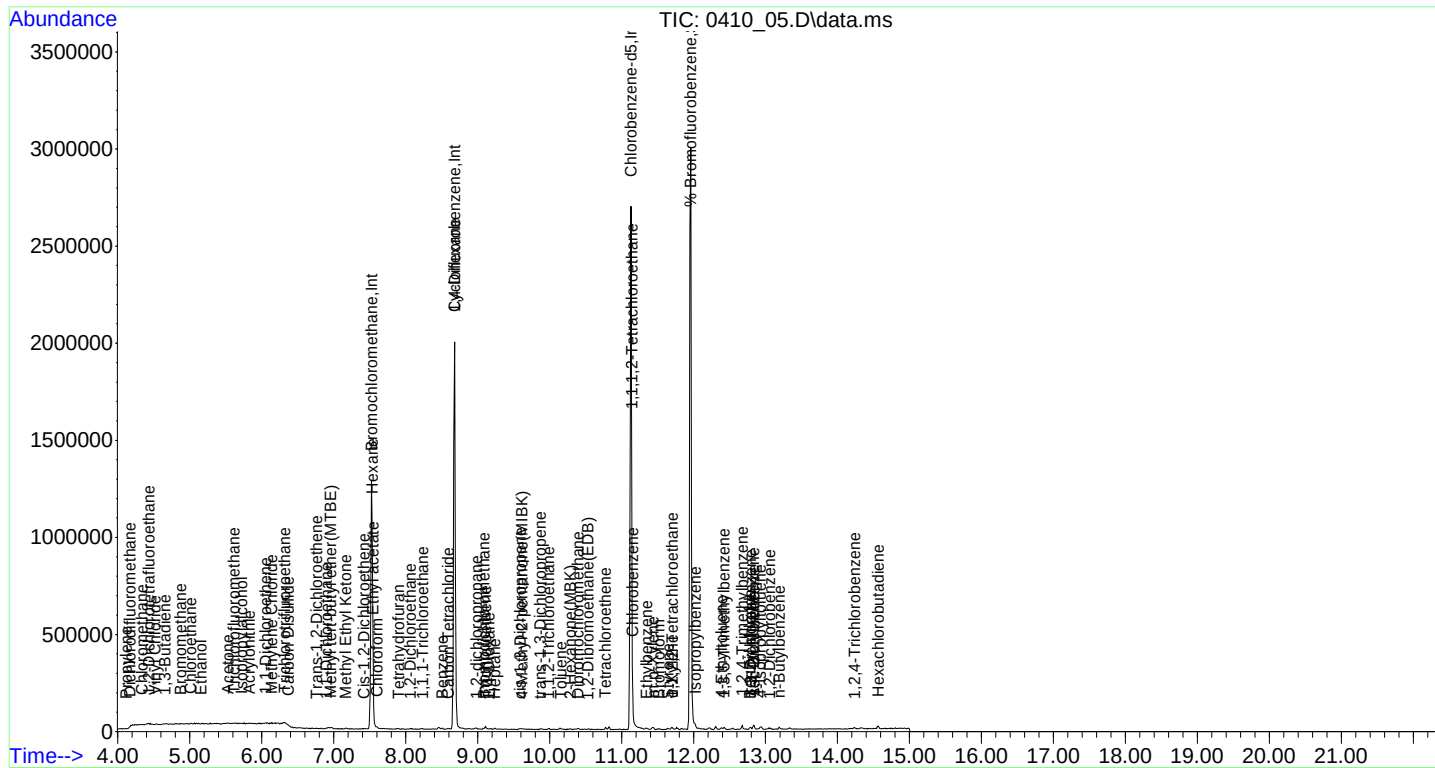
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.191	91	4775	0.021	ppbv	94
119]	1,2,4-Trichlorobenzene...	14.233	180	2255	0.030	ppbv	96

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_05.D
 Acq On : 10 Apr 2023 10:31 am
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ppbV ; AirT01501y
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 10 13:57:12 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Apr 10 13:56:20 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_06.D
 Acq On : 10 Apr 2023 11:03 am
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 ppbV ; AirT01501Y
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 10 13:58:12 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 13:57:20 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	376511	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1406228	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	629928	10.000	ng	0.00
81) Bromochloromethane(sim)	7.530	130	408819	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1403867	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	629928	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.960	95	900113	9.914	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.10%

Target Compounds						Qvalue
2) Propylene	4.096	41	2565	0.056	ppbv#	81
3) Dichlorodifluoromethane	4.171	85	5597	0.063	ppbv#	83
4) Chloromethane	4.333	50	2723	0.057	ppbv#	41
5) 1,2-Dichlorotetrafluor...	4.419	85	3229	0.039	ppbv#	74
6) Vinyl Chloride	4.527	62	1720	0.045	ppbv#	62
7) 1,3-Butadiene	4.635	54	1594	0.042	ppbv#	73
8) Bromomethane	4.882	94	2540	0.082	ppbv#	74
9) Chloroethane	5.033	64	843	0.048	ppbv#	61
11) Ethanol	5.141	45	3767	0.219	ppbv#	89
12) Acetone	5.518	43	8179	0.095	ppbv	91
13) Trichlorofluoromethane	5.605	101	3025	0.032	ppbv#	74
14) Isopropylalcohol	5.721	45	4303	0.056	ppbv#	58
15) Acrylonitrile	5.816	53	2062	0.056	ppbv#	94
16) 1,1-Dichloroethene	6.049	61	3102	0.045	ppbv#	86
17) Methylene Chloride	6.126	49	2969	0.045	ppbv#	70
20) Carbon Disulfide	6.359	76	3051	0.036	ppbv#	73
21) Trichlorotrifluoroethane	6.299	101	2684	0.038	ppbv	91
22) Trans-1,2-Dichloroethene	6.762	61	2857	0.044	ppbv#	61
23) 1,1-Dichloroethane	6.888	63	3330	0.044	ppbv	87
24) Methyl tert-butyl ethe...	6.959	73	3927	0.042	ppbv#	64
26) Methyl Ethyl Ketone	7.164	43	6441	0.049	ppbv#	96
27) Cis-1,2-Dichloroethene	7.421	61	2235	0.034	ppbv#	55
28) Hexane	7.535	57	3994	0.050	ppbv#	84
29) Chloroform	7.598	83	3165	0.040	ppbv#	53
30) Ethyl acetate	7.556	61	764	0.038	ppbv#	58
31) Tetrahydrofuran	7.889	42	3280	0.044	ppbv#	91
32) 1,2-Dichloroethane	8.067	62	2514	0.041	ppbv#	87
33) 1,1,1-Trichloroethane	8.223	97	2767	0.029	ppbv#	77
34) Benzene	8.498	78	4873	0.043	ppbv#	72
35) Carbon Tetrachloride	8.589	117	2582	0.032	ppbv	99
36) Cyclohexane	8.680	84	2558	0.057	ppbv#	1
38) 1,2-dichloropropane	8.974	63	2682	0.049	ppbv#	75
39) Bromodichloromethane	9.087	83	3256	0.038	ppbv	88
40) Trichloroethene	9.098	130	2115	0.036	ppbv#	73
42) 1,4-Dioxane	9.155	88	1203	0.051	ppbv#	56
44) Heptane	9.234	43	5258	0.043	ppbv#	75
45) cis-1,3-Dichloropropene	9.590	75	2348	0.036	ppbv	84
46) 4-Methyl-2-pentanone(M...	9.619	43	5286	0.033	ppbv#	88
47) trans-1,3-Dichloropropene	9.871	75	2057	0.034	ppbv#	80
48) 1,1,2-Trichloroethane	9.988	97	1856	0.037	ppbv#	77
49) Toluene	10.153	91	6224	0.042	ppbv#	91
50) Dibromochloromethane	10.395	129	2657	0.029	ppbv#	84

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_06.D
 Acq On : 10 Apr 2023 11:03 am
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 ppbV ; AirT01501Y
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 10 13:58:12 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 13:57:20 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.279	43	4277	0.029	ppbv#	75
52)	1,2-Dibromoethane(EDB)	10.541	107	2841	0.034	ppbv	93
53)	Tetrachloroethene	10.784	166	3500	0.044	ppbv	98
55)	1,1,1,2-Tetrachloroethane	11.140	131	2711	0.045	ppbv#	81
56)	Chlorobenzene	11.150	112	4448	0.040	ppbv#	1
57)	Ethylbenzene	11.345	91	7392	0.041	ppbv	97
58)	m,p-Xylene	11.437	91	9124	0.068	ppbv#	90
59)	Bromoform	11.519	173	2067	0.026	ppbv#	54
60)	Styrene	11.642	104	4269	0.040	ppbv#	81
61)	1,1,2,2-Tetrachloroethane	11.704	83	5697	0.056	ppbv#	86
62)	o-Xylene	11.704	91	6323	0.044	ppbv	97
65)	Isopropylbenzene	12.022	105	7478	0.039	ppbv#	95
67)	4-Ethyltoluene	12.391	105	7304	0.036	ppbv#	52
68)	1,3,5-Trimethylbenzene	12.432	105	5986	0.035	ppbv#	40
69)	1,2,4-Trimethylbenzene	12.678	105	6723	0.039	ppbv#	95
72)	1,3-Dichlorobenzene	12.791	146	4100	0.034	ppbv#	80
73)	1,4-Dichlorobenzene	12.832	146	6592	0.058	ppbv	89
74)	sec-Butylbenzene	12.842	105	9314	0.039	ppbv	97
75)	4-Isopropyltoluene	12.924	119	9126	0.040	ppbv#	85
76)	1,2-Dichlorobenzene	13.047	146	4510	0.039	ppbv#	92
77)	n-Butylbenzene	13.191	91	8042	0.043	ppbv	93
78)	1,2,4-Trichlorobenzene	14.238	180	2646	0.035	ppbv#	89
80)	Hexachlorobutadiene	14.566	225	3337	0.044	ppbv	84
82)	1,2-Dichlorotetrafluor...	4.425	85	2917m	0.032	ppbv	72
83)	Vinyl Chloride(sim)	4.532	62	1484	0.034	ppbv	94
84)	Bromomethane(sim)	4.888	94	1193m	0.033	ppbv	74
85)	Trichlorofluoromethane...	5.610	101	3202	0.033	ppbv#	97
86)	1,2-Dichloroethane(sim)	8.062	62	2541m	0.038	ppbv	87
87)	1,1,1-Trichloroethane(...	8.228	97	2924	0.032	ppbv#	89
88)	Benzene(sim)	8.504	78	4324m	0.035	ppbv	72
89)	Carbon Tetrachloride(sim)	8.595	117	2673	0.033	ppbv	99
90)	1,1-Dichloroethene(sim)	6.063	61	2651m	0.035	ppbv	86
91)	Trichlorotrifluoroetha...	6.304	101	2589	0.033	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.760	61	2400m	0.033	ppbv	63
93)	1,1-Dichloroethane(sim)	6.894	63	2922	0.034	ppbv#	97
94)	Cis-1,2-Dichloroethene...	7.416	61	2549m	0.034	ppbv	55
95)	Chloroform(sim)	7.603	83	2729	0.032	ppbv#	66
97)	1,2-dichloropropane(sim)	8.979	63	2099	0.032	ppbv	100
98)	Bromodichloromethane(sim)	9.093	83	2839m	0.030	ppbv	94
99)	Trichloroethene(sim)	9.115	130	2403	0.034	ppbv	98
100)	1,4-Dioxane(sim)	9.149	88	1072m	0.040	ppbv	56
101)	cis-1,3-Dichloropropen...	9.586	75	2332	0.032	ppbv	95
102)	1,1,2-Trichloroethane(...	9.993	97	1871m	0.032	ppbv	77
103)	Dibromochloromethane(sim)	10.401	129	3128	0.030	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.541	107	2569	0.029	ppbv	98
105)	Tetrachloroethene(sim)	10.780	166	4235	0.041	ppbv	98
107)	Bromoform(sim)	11.525	173	3363	0.036	ppbv	98
108)	m,p-Xylene(sim)	11.437	91	10253	0.068	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.699	83	4002	0.033	ppbv	99
112)	Benzyl chloride(sim)	12.781	91	5699	0.043	ppbv	89
113)	1,3-Dichlorobenzene(sim)	12.797	146	4698	0.033	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.838	146	6317m	0.045	ppbv	88
115)	sec-Butylbenzene(sim)	12.838	105	9710	0.033	ppbv	98
116)	4-Isopropyltoluene(sim)	12.924	119	9126	0.034	ppbv#	85
117)	1,2-Dichlorobenzene(sim)	13.053	146	4778	0.036	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_06.D
 Acq On : 10 Apr 2023 11:03 am
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 ppbV ; AirT01501Y
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 10 13:58:12 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Apr 10 13:57:20 2023
 Response via : Initial Calibration

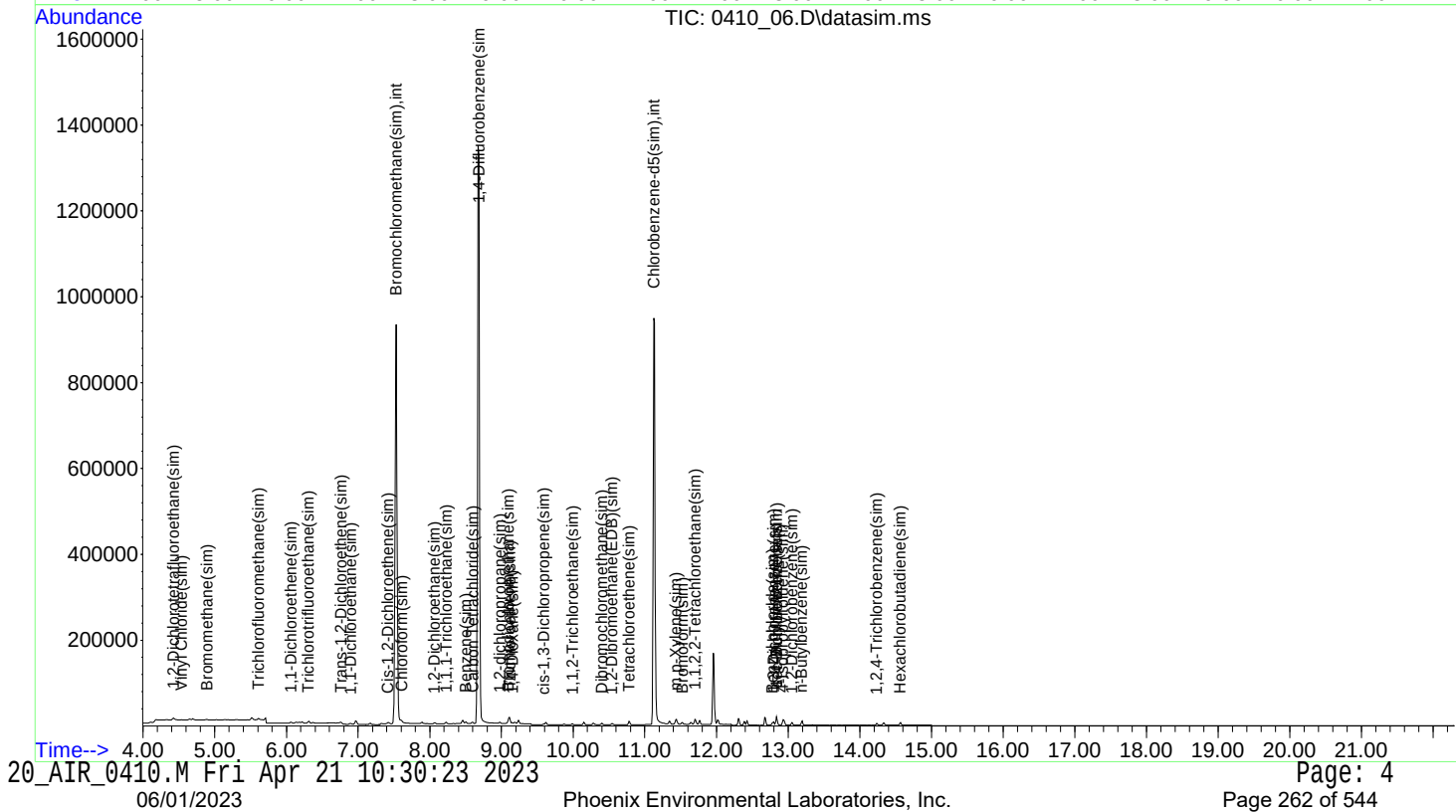
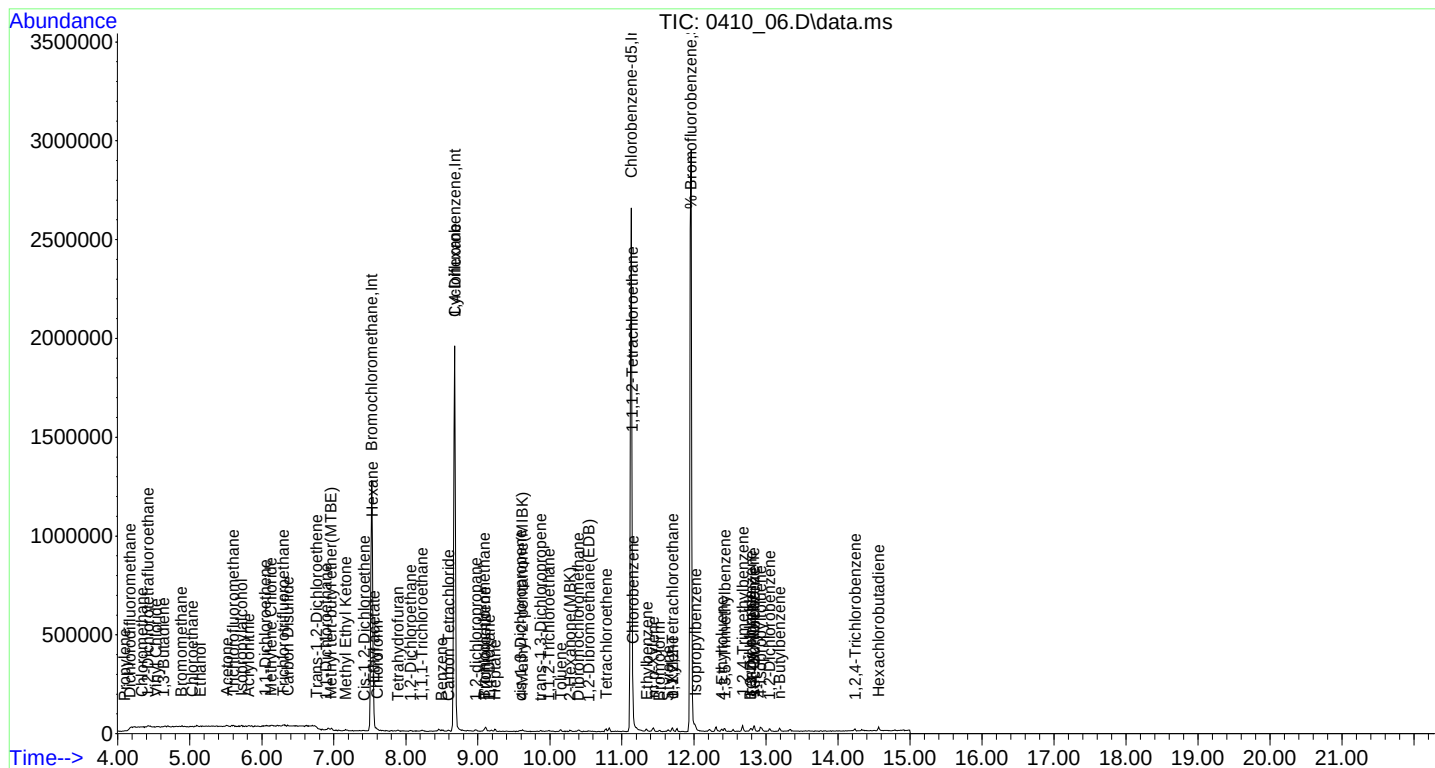
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.191	91	8042	0.036	ppbv	93
119]	1,2,4-Trichlorobenzene...	14.233	180	2844	0.040	ppbv	97

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_06.D
Acq On : 10 Apr 2023 11:03 am
Operator :
Client ID : ICAL 0.035
Lab ID : 0.035 ppbV ; AirT01501Y
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 10 13:58:12 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 10 13:57:20 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_07.D
 Acq On : 10 Apr 2023 11:36 am
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 13:59:26 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 13:58:40 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	379803	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1376115	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	633295	10.000	ng	0.00
81) Bromochloromethane(sim)	7.530	130	407532	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1373686	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	633295	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.960	95	900479	9.866	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.70%

Target Compounds						Qvalue
2) Propylene	4.117	41	3914	0.084	ppbv#	84
3) Dichlorodifluoromethane	4.171	85	6197	0.069	ppbv#	79
4) Chloromethane	4.333	50	3903	0.081	ppbv	79
5) 1,2-Dichlorotetrafluor...	4.419	85	4296	0.052	ppbv	91
6) Vinyl Chloride	4.527	62	2560	0.067	ppbv#	51
7) 1,3-Butadiene	4.656	54	2451	0.063	ppbv#	81
8) Bromomethane	4.893	94	1494	0.048	ppbv#	98
9) Chloroethane	5.141	64	898	0.051	ppbv	98
11) Ethanol	5.152	45	1694	0.098	ppbv#	27
12) Acetone	5.529	43	7952	0.091	ppbv#	70
13) Trichlorofluoromethane	5.615	101	4167	0.043	ppbv#	63
14) Isopropylalcohol	5.721	45	9080	0.116	ppbv#	72
15) Acrylonitrile	5.824	53	3705	0.099	ppbv	86
16) 1,1-Dichloroethene	6.066	61	4224	0.061	ppbv#	72
17) Methylene Chloride	6.135	49	4028	0.061	ppbv#	82
20) Carbon Disulfide	6.368	76	4526	0.052	ppbv#	56
21) Trichlorotrifluoroethane	6.307	101	3767	0.053	ppbv#	91
22) Trans-1,2-Dichloroethene	6.754	61	3566	0.054	ppbv#	68
23) 1,1-Dichloroethane	6.896	63	4542	0.059	ppbv#	61
24) Methyl tert-butyl ethe...	6.967	73	6276	0.067	ppbv#	79
26) Methyl Ethyl Ketone	7.172	43	6366	0.048	ppbv#	80
27) Cis-1,2-Dichloroethene	7.421	61	2868	0.043	ppbv#	66
28) Hexane	7.535	57	4673	0.058	ppbv	93
29) Chloroform	7.598	83	4796	0.060	ppbv#	65
30) Ethyl acetate	7.556	61	1208	0.060	ppbv#	88
31) Tetrahydrofuran	7.900	42	5171	0.068	ppbv#	82
32) 1,2-Dichloroethane	8.066	62	3029	0.049	ppbv#	80
33) 1,1,1-Trichloroethane	8.223	97	4450	0.047	ppbv	95
34) Benzene	8.510	78	5719	0.051	ppbv#	75
35) Carbon Tetrachloride	8.589	117	3913	0.047	ppbv	99
36) Cyclohexane	8.668	84	3803	0.085	ppbv#	19
38) 1,2-dichloropropane	8.974	63	3571	0.066	ppbv#	77
39) Bromodichloromethane	9.087	83	3965	0.048	ppbv#	59
40) Trichloroethene	9.110	130	2878	0.051	ppbv#	86
42) 1,4-Dioxane	9.144	88	1625	0.070	ppbv#	64
44) Heptane	9.234	43	5929	0.050	ppbv#	79
45) cis-1,3-Dichloropropene	9.580	75	3610	0.057	ppbv	95
46) 4-Methyl-2-pentanone(M...	9.619	43	9400	0.060	ppbv#	91
47) trans-1,3-Dichloropropene	9.871	75	3125	0.053	ppbv#	95
48) 1,1,2-Trichloroethane	9.988	97	2841	0.058	ppbv#	74
49) Toluene	10.143	91	7435	0.051	ppbv	99
50) Dibromochloromethane	10.395	129	4864	0.054	ppbv#	86

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_07.D
 Acq On : 10 Apr 2023 11:36 am
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 13:59:26 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 13:58:40 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.279	43	6308	0.044	ppbv#	92
52)	1,2-Dibromoethane(EDB)	10.541	107	4272	0.052	ppbv	97
53)	Tetrachloroethene	10.774	166	5242	0.067	ppbv	96
55)	1,1,1,2-Tetrachloroethane	11.140	131	3143	0.052	ppbv	97
56)	Chlorobenzene	11.161	112	6723	0.060	ppbv#	1
57)	Ethylbenzene	11.345	91	9050	0.050	ppbv	98
58)	m,p-Xylene	11.437	91	14775	0.110	ppbv#	95
59)	Bromoform	11.519	173	3712	0.046	ppbv	86
60)	Styrene	11.642	104	5435	0.051	ppbv#	85
61)	1,1,2,2-Tetrachloroethane	11.694	83	6042	0.059	ppbv	90
62)	o-Xylene	11.704	91	7691	0.053	ppbv#	95
65)	Isopropylbenzene	12.021	105	10803	0.055	ppbv	97
67)	4-Ethyltoluene	12.391	105	12793	0.063	ppbv#	90
68)	1,3,5-Trimethylbenzene	12.421	105	8434	0.050	ppbv	96
69)	1,2,4-Trimethylbenzene	12.678	105	9495	0.055	ppbv	98
72)	1,3-Dichlorobenzene	12.801	146	6245	0.052	ppbv	94
73)	1,4-Dichlorobenzene	12.832	146	7592	0.066	ppbv	93
74)	sec-Butylbenzene	12.842	105	12649	0.053	ppbv#	91
75)	4-Isopropyltoluene	12.924	119	12318	0.053	ppbv#	85
76)	1,2-Dichlorobenzene	13.047	146	7134	0.062	ppbv#	85
77)	n-Butylbenzene	13.191	91	10342	0.054	ppbv	91
78)	1,2,4-Trichlorobenzene	14.227	180	3348	0.044	ppbv	95
80)	Hexachlorobutadiene	14.566	225	4394	0.058	ppbv	88
82)	1,2-Dichlorotetrafluor...	4.419	85	4296	0.048	ppbv	91
83)	Vinyl Chloride(sim)	4.532	62	2024	0.047	ppbv#	84
84)	Bromomethane(sim)	4.888	94	1673m	0.047	ppbv	98
85)	Trichlorofluoromethane...	5.610	101	4731	0.049	ppbv#	77
86)	1,2-Dichloroethane(sim)	8.072	62	3207m	0.048	ppbv	80
87)	1,1,1-Trichloroethane(...	8.228	97	4335	0.048	ppbv#	93
88)	Benzene(sim)	8.504	78	6034m	0.049	ppbv	75
89)	Carbon Tetrachloride(sim)	8.595	117	3669	0.046	ppbv	99
90)	1,1-Dichloroethene(sim)	6.063	61	3656m	0.048	ppbv	72
91)	Trichlorotrifluoroetha...	6.313	101	3581	0.046	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.754	61	3566	0.050	ppbv#	70
93)	1,1-Dichloroethane(sim)	6.894	63	4280	0.050	ppbv#	70
94)	Cis-1,2-Dichloroethene...	7.416	61	3662m	0.049	ppbv	66
95)	Chloroform(sim)	7.603	83	4059	0.048	ppbv#	90
97)	1,2-dichloropropane(sim)	8.979	63	3082	0.049	ppbv	99
98)	Bromodichloromethane(sim)	9.093	83	4041m	0.044	ppbv	57
99)	Trichloroethene(sim)	9.115	130	3303	0.047	ppbv	99
100)	1,4-Dioxane(sim)	9.160	88	1452m	0.056	ppbv	86
101)	cis-1,3-Dichloropropen...	9.586	75	3314	0.047	ppbv	99
102)	1,1,2-Trichloroethane(...	9.988	97	2946	0.052	ppbv#	76
103)	Dibromochloromethane(sim)	10.401	129	4563m	0.044	ppbv	98
104)	1,2-Dibromoethane(EDB)...	10.541	107	4369	0.050	ppbv	85
105)	Tetrachloroethene(sim)	10.779	166	5672	0.056	ppbv	98
107)	Bromoform(sim)	11.525	173	4591	0.048	ppbv	98
108)	m,p-Xylene(sim)	11.437	91	14775	0.097	ppbv#	95
109)	1,1,2,2-Tetrachloroeth...	11.699	83	5555	0.046	ppbv	98
112)	Benzyl chloride(sim)	12.781	91	6407	0.048	ppbv	93
113)	1,3-Dichlorobenzene(sim)	12.796	146	6552	0.046	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.838	146	8577m	0.061	ppbv	94
115)	sec-Butylbenzene(sim)	12.838	105	13531	0.045	ppbv	99
116)	4-Isopropyltoluene(sim)	12.924	119	12318	0.045	ppbv#	85
117)	1,2-Dichlorobenzene(sim)	13.053	146	6147	0.046	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_07.D
Acq On : 10 Apr 2023 11:36 am
Operator :
Client ID : ICAL 0.05
Lab ID : 0.05 ppbV ; AirT01501Y
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 13:59:26 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 10 13:58:40 2023
Response via : Initial Calibration

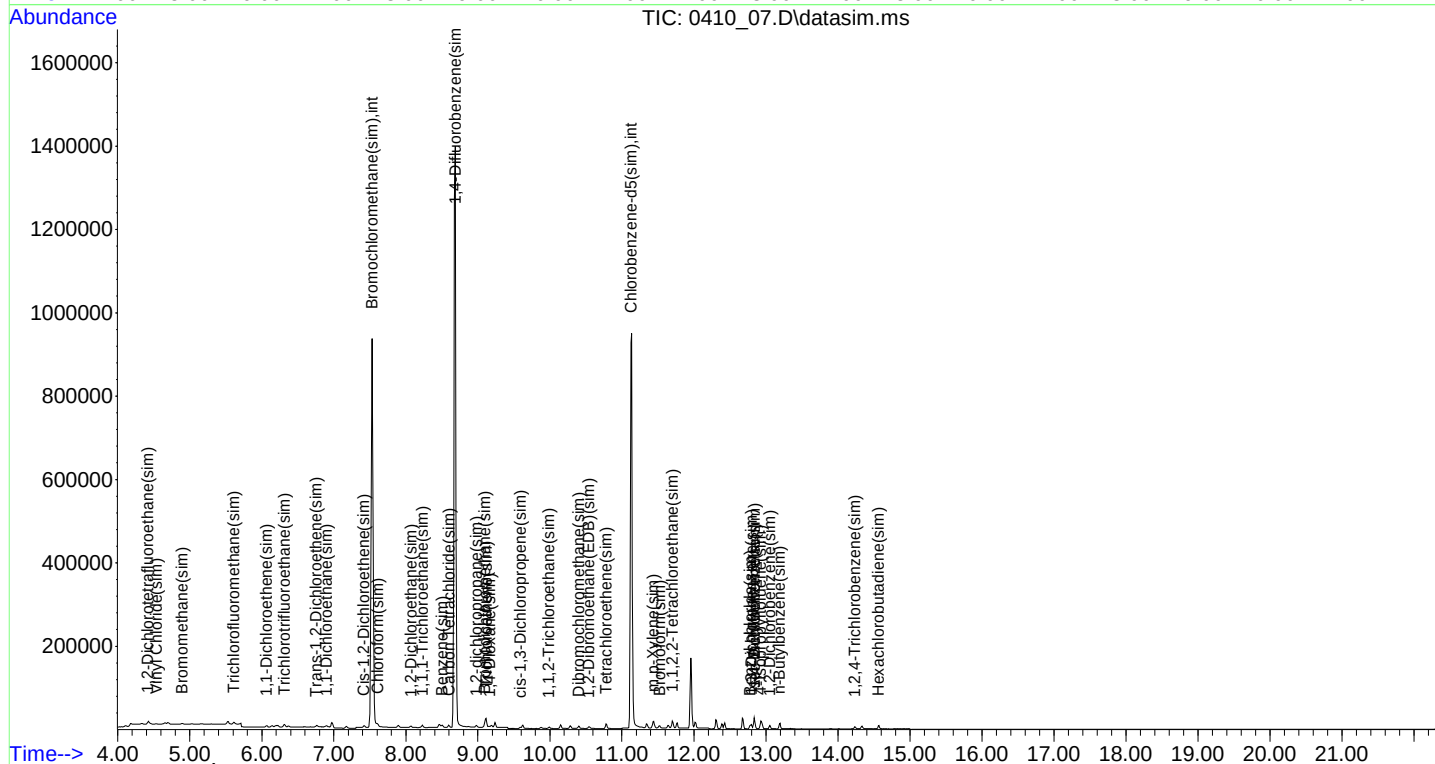
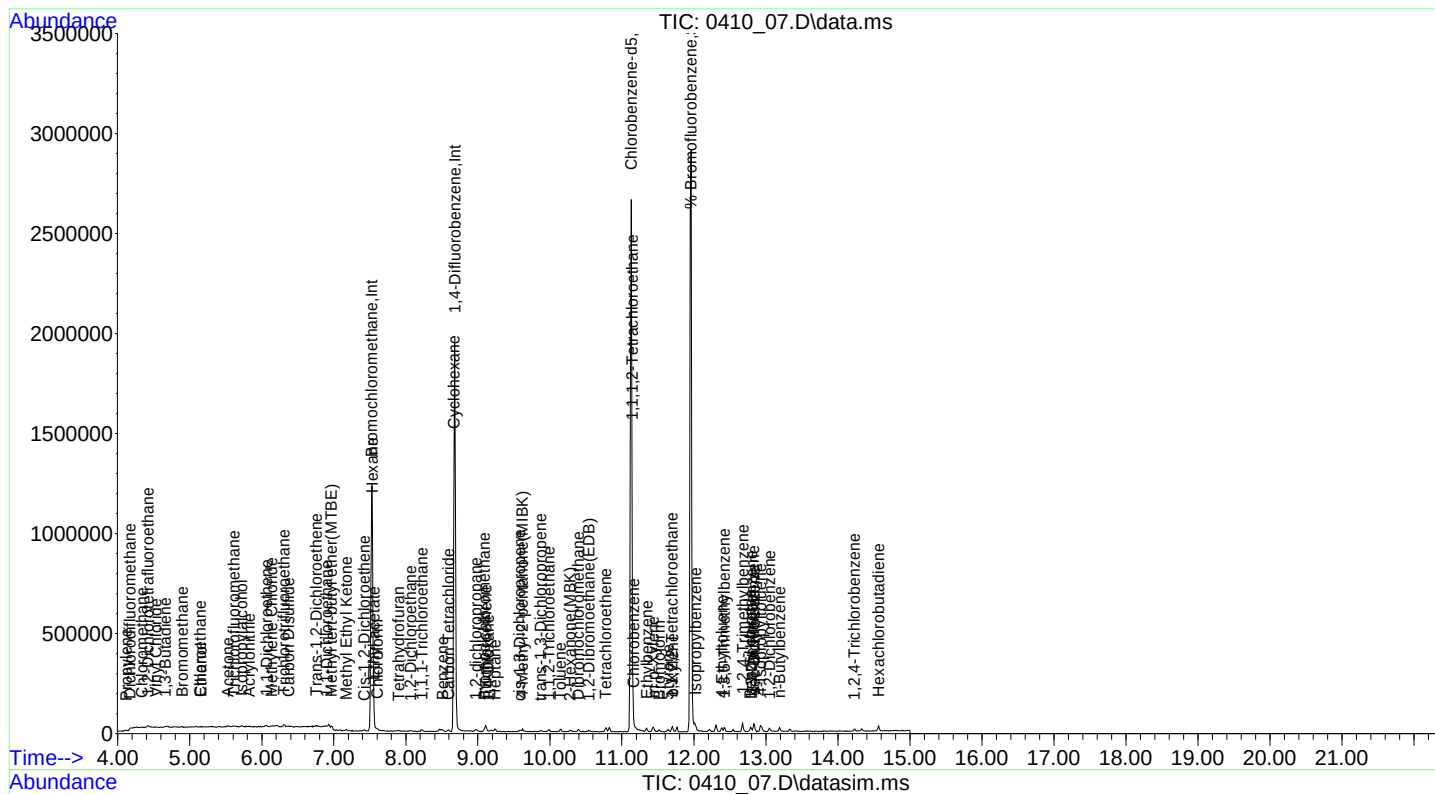
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.191	91	10342	0.046	ppbv	91
119]	1,2,4-Trichlorobenzene...	14.233	180	3746	0.053	ppbv	96
120]	Hexachlorobutadiene(sim)	14.566	225	4264	0.044	ppbv	90

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_07.D
 Acq On : 10 Apr 2023 11:36 am
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 13:59:26 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Apr 10 13:58:40 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_08.D
 Acq On : 10 Apr 2023 12:07 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppbV ; AirT01501Y
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 10 13:59:40 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 13:59:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	372403	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1387726	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	633024	10.000	ng	0.00
81) Bromochloromethane(sim)	7.530	130	405518	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1386575	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	631058	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.960	95	900153	9.866	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.70%

Target Compounds					Qvalue
2) Propylene	4.096	41	5178	0.114	ppbv# 75
3) Dichlorodifluoromethane	4.171	85	11257	0.128	ppbv# 88
4) Chloromethane	4.322	50	5397	0.115	ppbv 75
5) 1,2-Dichlorotetrafluor...	4.419	85	10720	0.131	ppbv 98
6) Vinyl Chloride	4.527	62	5100	0.136	ppbv 68
7) 1,3-Butadiene	4.645	54	5744	0.151	ppbv 92
8) Bromomethane	4.882	94	5675	0.185	ppbv# 87
9) Chloroethane	5.023	64	2858	0.166	ppbv 87
11) Ethanol	5.152	45	2070	0.122	ppbv# 1
12) Acetone	5.518	43	10838	0.127	ppbv 99
13) Trichlorofluoromethane	5.605	101	10795	0.115	ppbv# 90
14) Isopropylalcohol	5.721	45	8370	0.109	ppbv 94
15) Acrylonitrile	5.824	53	5265	0.144	ppbv# 89
16) 1,1-Dichloroethene	6.057	61	8522	0.125	ppbv 92
17) Methylene Chloride	6.135	49	9600	0.149	ppbv 89
20) Carbon Disulfide	6.368	76	11451	0.135	ppbv# 94
21) Trichlorotrifluoroethane	6.307	101	8411	0.121	ppbv 89
22) Trans-1,2-Dichloroethene	6.754	61	8652	0.133	ppbv 97
23) 1,1-Dichloroethane	6.888	63	9272	0.123	ppbv 94
24) Methyl tert-butyl ethe...	6.959	73	11278	0.122	ppbv# 94
26) Methyl Ethyl Ketone	7.156	43	13561	0.104	ppbv# 90
27) Cis-1,2-Dichloroethene	7.421	61	7436	0.114	ppbv# 82
28) Hexane	7.525	57	10720	0.135	ppbv 96
29) Chloroform	7.598	83	9892	0.125	ppbv 88
30) Ethyl acetate	7.556	61	3124	0.158	ppbv# 85
31) Tetrahydrofuran	7.889	42	10703	0.144	ppbv# 86
32) 1,2-Dichloroethane	8.066	62	7531	0.125	ppbv 97
33) 1,1,1-Trichloroethane	8.223	97	9835	0.106	ppbv 90
34) Benzene	8.498	78	12963	0.117	ppbv# 85
35) Carbon Tetrachloride	8.589	117	8423	0.104	ppbv 90
36) Cyclohexane	8.668	84	6313	0.143	ppbv# 54
38) 1,2-dichloropropane	8.974	63	7569	0.139	ppbv 93
39) Bromodichloromethane	9.087	83	10664	0.127	ppbv 96
40) Trichloroethene	9.110	130	6372	0.111	ppbv 93
42) 1,4-Dioxane	9.144	88	3322	0.143	ppbv# 68
44) Heptane	9.234	43	13728	0.114	ppbv 98
45) cis-1,3-Dichloropropene	9.590	75	7309	0.115	ppbv 94
46) 4-Methyl-2-pentanone(M...	9.609	43	18576	0.118	ppbv# 97
47) trans-1,3-Dichloropropene	9.871	75	6365	0.106	ppbv# 82
48) 1,1,2-Trichloroethane	9.988	97	6280	0.126	ppbv# 90
49) Toluene	10.143	91	17689	0.121	ppbv# 94
50) Dibromochloromethane	10.395	129	9578	0.105	ppbv# 85

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_08.D
 Acq On : 10 Apr 2023 12:07 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppbV ; AirT01501Y
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 10 13:59:40 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 13:59:37 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.279	43	12998	0.090	ppbv#	94
52)	1,2-Dibromoethane(EDB)	10.541	107	9301	0.112	ppbv	99
53)	Tetrachloroethene	10.784	166	9751	0.124	ppbv	93
55)	1,1,1,2-Tetrachloroethane	11.140	131	7547	0.124	ppbv	97
56)	Chlorobenzene	11.150	112	13960	0.125	ppbv#	49
57)	Ethylbenzene	11.345	91	21805	0.121	ppbv	97
58)	m,p-Xylene	11.437	91	31742	0.236	ppbv	97
59)	Bromoform	11.519	173	9454	0.117	ppbv	95
60)	Styrene	11.642	104	14126	0.133	ppbv	96
61)	1,1,2,2-Tetrachloroethane	11.694	83	13027	0.127	ppbv	99
62)	o-Xylene	11.704	91	17532	0.121	ppbv#	93
65)	Isopropylbenzene	12.022	105	24933	0.128	ppbv	97
67)	4-Ethyltoluene	12.391	105	23810	0.118	ppbv	98
68)	1,3,5-Trimethylbenzene	12.421	105	17218	0.101	ppbv#	79
69)	1,2,4-Trimethylbenzene	12.678	105	22437	0.130	ppbv	95
72)	1,3-Dichlorobenzene	12.791	146	14133	0.117	ppbv	98
73)	1,4-Dichlorobenzene	12.832	146	14883	0.130	ppbv	96
74)	sec-Butylbenzene	12.842	105	31111	0.130	ppbv	95
75)	4-Isopropyltoluene	12.924	119	27641	0.120	ppbv	96
76)	1,2-Dichlorobenzene	13.047	146	15749	0.137	ppbv	93
77)	n-Butylbenzene	13.191	91	21239	0.112	ppbv	98
78)	1,2,4-Trichlorobenzene	14.227	180	6198	0.082	ppbv	90
80)	Hexachlorobutadiene	14.566	225	8903	0.117	ppbv	93
82)	1,2-Dichlorotetrafluor...	4.419	85	10761	0.121	ppbv	99
83)	Vinyl Chloride(sim)	4.522	62	4804	0.112	ppbv	95
84)	Bromomethane(sim)	4.882	94	5675	0.160	ppbv#	87
85)	Trichlorofluoromethane...	5.610	101	10707	0.111	ppbv#	90
86)	1,2-Dichloroethane(sim)	8.066	62	7531	0.114	ppbv	97
87)	1,1,1-Trichloroethane(...	8.228	97	9841	0.110	ppbv#	97
88)	Benzene(sim)	8.498	78	12963	0.105	ppbv#	85
89)	Carbon Tetrachloride(sim)	8.595	117	8820	0.111	ppbv	99
90)	1,1-Dichloroethene(sim)	6.057	61	8522	0.112	ppbv	92
91)	Trichlorotrifluoroetha...	6.313	101	9345	0.122	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.754	61	8652	0.121	ppbv	98
93)	1,1-Dichloroethane(sim)	6.894	63	9564	0.112	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.421	61	7436	0.101	ppbv#	82
95)	Chloroform(sim)	7.603	83	9439	0.111	ppbv	96
97)	1,2-dichloropropane(sim)	8.979	63	6895	0.108	ppbv	97
98)	Bromodichloromethane(sim)	9.087	83	10664	0.116	ppbv	95
99)	Trichloroethene(sim)	9.115	130	7349	0.105	ppbv	99
100)	1,4-Dioxane(sim)	9.144	88	3322	0.126	ppbv#	90
101)	cis-1,3-Dichloropropen...	9.586	75	7908	0.112	ppbv	99
102)	1,1,2-Trichloroethane(...	9.988	97	6280	0.109	ppbv	90
103)	Dibromochloromethane(sim)	10.401	129	10973	0.106	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.541	107	9301	0.105	ppbv	100
105)	Tetrachloroethene(sim)	10.779	166	11083	0.108	ppbv	99
107)	Bromoform(sim)	11.525	173	10840	0.115	ppbv	99
108)	m,p-Xylene(sim)	11.437	91	32938	0.218	ppbv	97
109)	1,1,2,2-Tetrachloroeth...	11.699	83	13305	0.110	ppbv	99
112)	Benzyl chloride(sim)	12.770	91	13518	0.101	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.796	146	15572	0.110	ppbv	100
114)	1,4-Dichlorobenzene(sim)	12.832	146	14883	0.106	ppbv	97
115)	sec-Butylbenzene(sim)	12.838	105	32221	0.108	ppbv	100
116)	4-Isopropyltoluene(sim)	12.924	119	27641	0.102	ppbv	96
117)	1,2-Dichlorobenzene(sim)	13.053	146	14424	0.109	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_08.D
Acq On : 10 Apr 2023 12:07 pm
Operator :
Client ID : ICAL 0.1
Lab ID : 0.10 ppbV ; AirT01501Y
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 10 13:59:40 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 10 13:59:37 2023
Response via : Initial Calibration

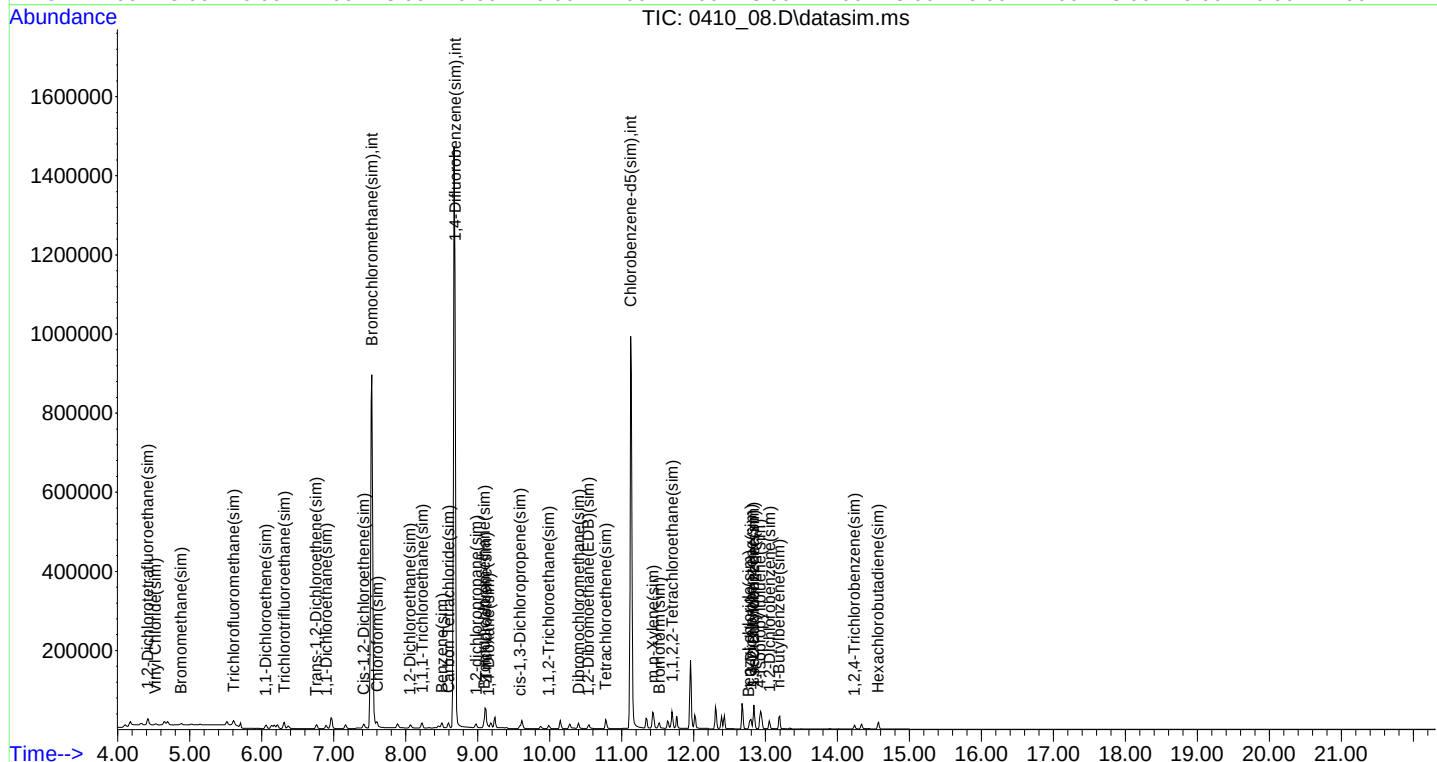
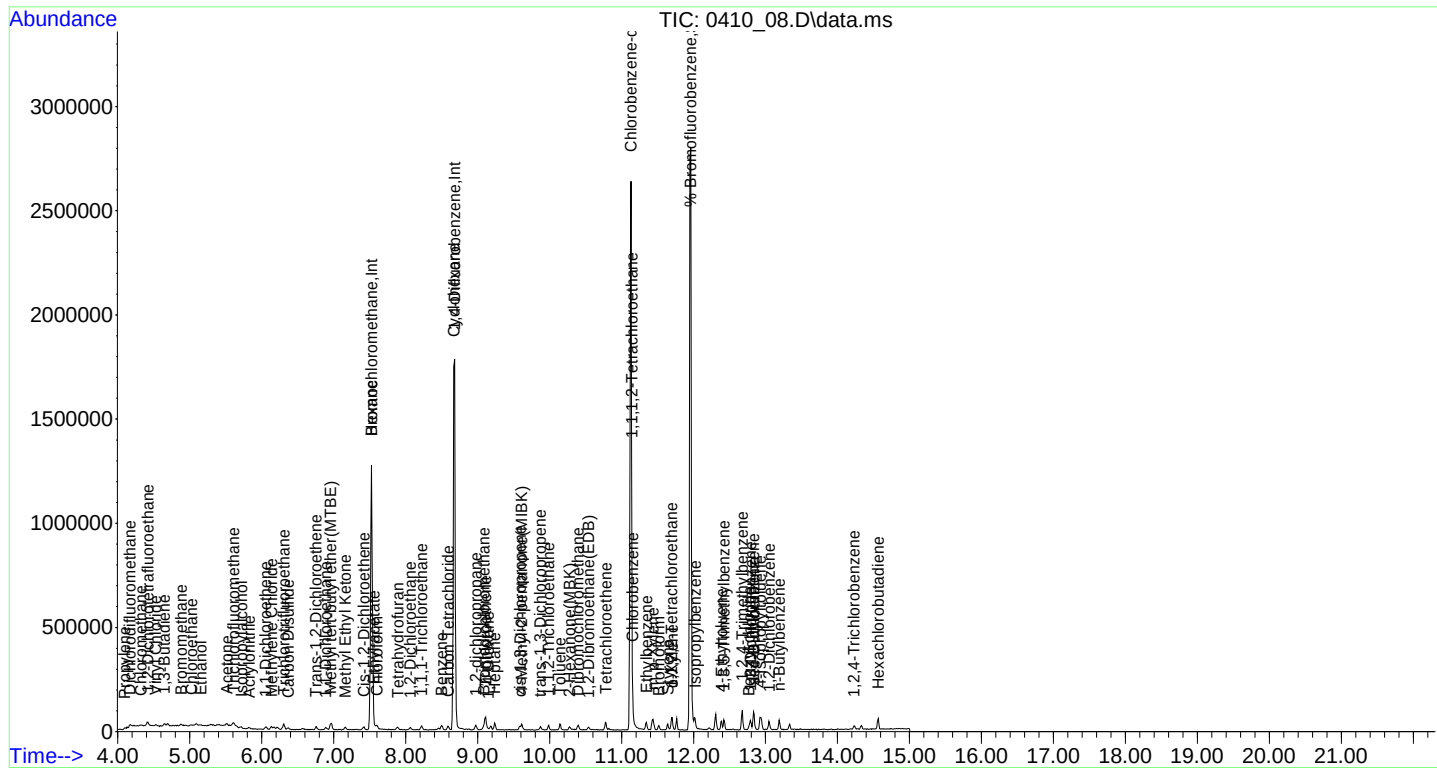
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.191	91	21239	0.095	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.233	180	6508	0.092	ppbv	98
120]	Hexachlorobutadiene(sim)	14.566	225	8903	0.103	ppbv	92

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_08.D
 Acq On : 10 Apr 2023 12:07 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppbV ; AirT01501Y
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 10 13:59:40 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Apr 10 13:59:37 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_09.D
 Acq On : 10 Apr 2023 12:38 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 14:00:03 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 14:00:00 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	370098	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1359199	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	629278	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	401876	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1359199	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	629429	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	893664	9.853	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.50%

Target Compounds						Qvalue
2) Propylene	4.096	41	10241	0.227	ppbv#	75
3) Dichlorodifluoromethane	4.171	85	21186	0.243	ppbv	94
4) Chloromethane	4.322	50	11251	0.240	ppbv	93
5) 1,2-Dichlorotetrafluor...	4.419	85	17825	0.219	ppbv	94
6) Vinyl Chloride	4.527	62	8049	0.217	ppbv	77
7) 1,3-Butadiene	4.645	54	9489	0.252	ppbv	94
8) Bromomethane	4.883	94	7368	0.242	ppbv	86
9) Chloroethane	5.023	64	4411	0.258	ppbv	85
11) Ethanol	5.141	45	5552	0.329	ppbv#	84
12) Acetone	5.508	43	20775	0.244	ppbv	99
13) Trichlorofluoromethane	5.605	101	18971	0.203	ppbv	98
14) Isopropylalcohol	5.721	45	13792	0.181	ppbv#	84
15) Acrylonitrile	5.816	53	7618	0.210	ppbv	94
16) 1,1-Dichloroethene	6.057	61	14053	0.207	ppbv	94
17) Methylene Chloride	6.135	49	14185	0.221	ppbv#	84
20) Carbon Disulfide	6.359	76	17925	0.212	ppbv#	66
21) Trichlorotrifluoroethane	6.299	101	14836	0.216	ppbv	98
22) Trans-1,2-Dichloroethene	6.754	61	14597	0.226	ppbv	93
23) 1,1-Dichloroethane	6.888	63	16220	0.217	ppbv	100
24) Methyl tert-butyl ethe...	6.951	73	19111	0.209	ppbv	93
26) Methyl Ethyl Ketone	7.156	43	25655	0.198	ppbv#	96
27) Cis-1,2-Dichloroethene	7.410	61	14220	0.219	ppbv	97
28) Hexane	7.525	57	17282	0.218	ppbv	100
29) Chloroform	7.598	83	16080	0.205	ppbv	93
30) Ethyl acetate	7.546	61	4353	0.221	ppbv#	93
31) Tetrahydrofuran	7.879	42	17928	0.243	ppbv#	91
32) 1,2-Dichloroethane	8.067	62	11605	0.193	ppbv	95
33) 1,1,1-Trichloroethane	8.223	97	17321	0.188	ppbv	95
34) Benzene	8.499	78	22665	0.206	ppbv#	92
35) Carbon Tetrachloride	8.589	117	14202	0.177	ppbv	96
36) Cyclohexane	8.668	84	9986	0.228	ppbv#	77
38) 1,2-dichloropropane	8.974	63	11754	0.221	ppbv	97
39) Bromodichloromethane	9.087	83	17490	0.213	ppbv	93
40) Trichloroethene	9.110	130	11352	0.203	ppbv	93
42) 1,4-Dioxane	9.144	88	4903	0.215	ppbv#	67
44) Heptane	9.234	43	23675	0.201	ppbv	94
45) cis-1,3-Dichloropropene	9.580	75	12940	0.207	ppbv	97
46) 4-Methyl-2-pentanone(M...	9.609	43	31321	0.203	ppbv#	97
47) trans-1,3-Dichloropropene	9.871	75	11965	0.204	ppbv	97
48) 1,1,2-Trichloroethane	9.988	97	9433	0.194	ppbv#	87
49) Toluene	10.143	91	30426	0.212	ppbv	95
50) Dibromochloromethane	10.396	129	17126	0.191	ppbv	91

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_09.D
 Acq On : 10 Apr 2023 12:38 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 14:00:03 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 14:00:00 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.269	43	26926	0.191	ppbv	99
52)	1,2-Dibromoethane(EDB)	10.541	107	16832	0.208	ppbv	97
53)	Tetrachloroethene	10.774	166	17281	0.225	ppbv	94
55)	1,1,1,2-Tetrachloroethane	11.140	131	13469	0.223	ppbv	88
56)	Chlorobenzene	11.150	112	25009	0.225	ppbv#	80
57)	Ethylbenzene	11.345	91	36653	0.205	ppbv	99
58)	m,p-Xylene	11.437	91	57279	0.428	ppbv	97
59)	Bromoform	11.519	173	15700	0.195	ppbv	95
60)	Styrene	11.632	104	21435	0.203	ppbv	94
61)	1,1,2,2-Tetrachloroethane	11.694	83	21510	0.211	ppbv	94
62)	o-Xylene	11.694	91	31344	0.218	ppbv	97
65)	Isopropylbenzene	12.011	105	43230	0.223	ppbv	98
67)	4-Ethyltoluene	12.381	105	42945	0.214	ppbv	98
68)	1,3,5-Trimethylbenzene	12.422	105	38643	0.229	ppbv	97
69)	1,2,4-Trimethylbenzene	12.678	105	36567	0.213	ppbv	98
72)	1,3-Dichlorobenzene	12.791	146	24232	0.202	ppbv	96
73)	1,4-Dichlorobenzene	12.832	146	24541	0.215	ppbv	96
74)	sec-Butylbenzene	12.832	105	53568	0.225	ppbv	98
75)	4-Isopropyltoluene	12.924	119	48448	0.212	ppbv	98
76)	1,2-Dichlorobenzene	13.048	146	23616	0.206	ppbv	97
77)	n-Butylbenzene	13.191	91	39497	0.209	ppbv	97
78)	1,2,4-Trichlorobenzene	14.228	180	10104	0.135	ppbv	92
80)	Hexachlorobutadiene	14.566	225	13761	0.182	ppbv	93
82)	1,2-Dichlorotetrafluor...	4.419	85	17825	0.201	ppbv	94
83)	Vinyl Chloride(sim)	4.522	62	8267	0.195	ppbv	100
84)	Bromomethane(sim)	4.883	94	7368	0.209	ppbv	86
85)	Trichlorofluoromethane...	5.610	101	19309	0.203	ppbv#	97
86)	1,2-Dichloroethane(sim)	8.067	62	11605	0.178	ppbv	95
87)	1,1,1-Trichloroethane(...	8.228	97	17521	0.197	ppbv#	99
88)	Benzene(sim)	8.499	78	22665	0.186	ppbv#	92
89)	Carbon Tetrachloride(sim)	8.595	117	15900	0.202	ppbv	100
90)	1,1-Dichloroethene(sim)	6.057	61	14053	0.187	ppbv	94
91)	Trichlorotrifluoroetha...	6.304	101	14963	0.197	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.754	61	14597	0.207	ppbv	95
93)	1,1-Dichloroethane(sim)	6.894	63	16804	0.199	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.410	61	14220	0.195	ppbv	97
95)	Chloroform(sim)	7.603	83	16736	0.199	ppbv	98
97)	1,2-dichloropropane(sim)	8.979	63	11884	0.189	ppbv	98
98)	Bromodichloromethane(sim)	9.087	83	17490	0.194	ppbv	96
99)	Trichloroethene(sim)	9.104	130	12918	0.188	ppbv	99
100)	1,4-Dioxane(sim)	9.144	88	4903	0.190	ppbv#	77
101)	cis-1,3-Dichloropropen...	9.586	75	14028	0.202	ppbv	99
102)	1,1,2-Trichloroethane(...	9.988	97	9433	0.167	ppbv	87
103)	Dibromochloromethane(sim)	10.401	129	18908	0.186	ppbv	98
104)	1,2-Dibromoethane(EDB)...	10.541	107	16832	0.194	ppbv	97
105)	Tetrachloroethene(sim)	10.780	166	18677	0.185	ppbv	99
107)	Bromoform(sim)	11.515	173	18273	0.194	ppbv	99
108)	m,p-Xylene(sim)	11.437	91	60235	0.400	ppbv	96
109)	1,1,2,2-Tetrachloroeth...	11.699	83	23056	0.191	ppbv	99
112)	Benzyl chloride(sim)	12.770	91	22796	0.171	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.797	146	28006	0.198	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.832	146	24541	0.175	ppbv	96
115)	sec-Butylbenzene(sim)	12.838	105	56965	0.191	ppbv	99
116)	4-Isopropyltoluene(sim)	12.924	119	48448	0.180	ppbv	97
117)	1,2-Dichlorobenzene(sim)	13.053	146	25754	0.194	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_09.D
 Acq On : 10 Apr 2023 12:38 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 14:00:03 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Apr 10 14:00:00 2023
 Response via : Initial Calibration

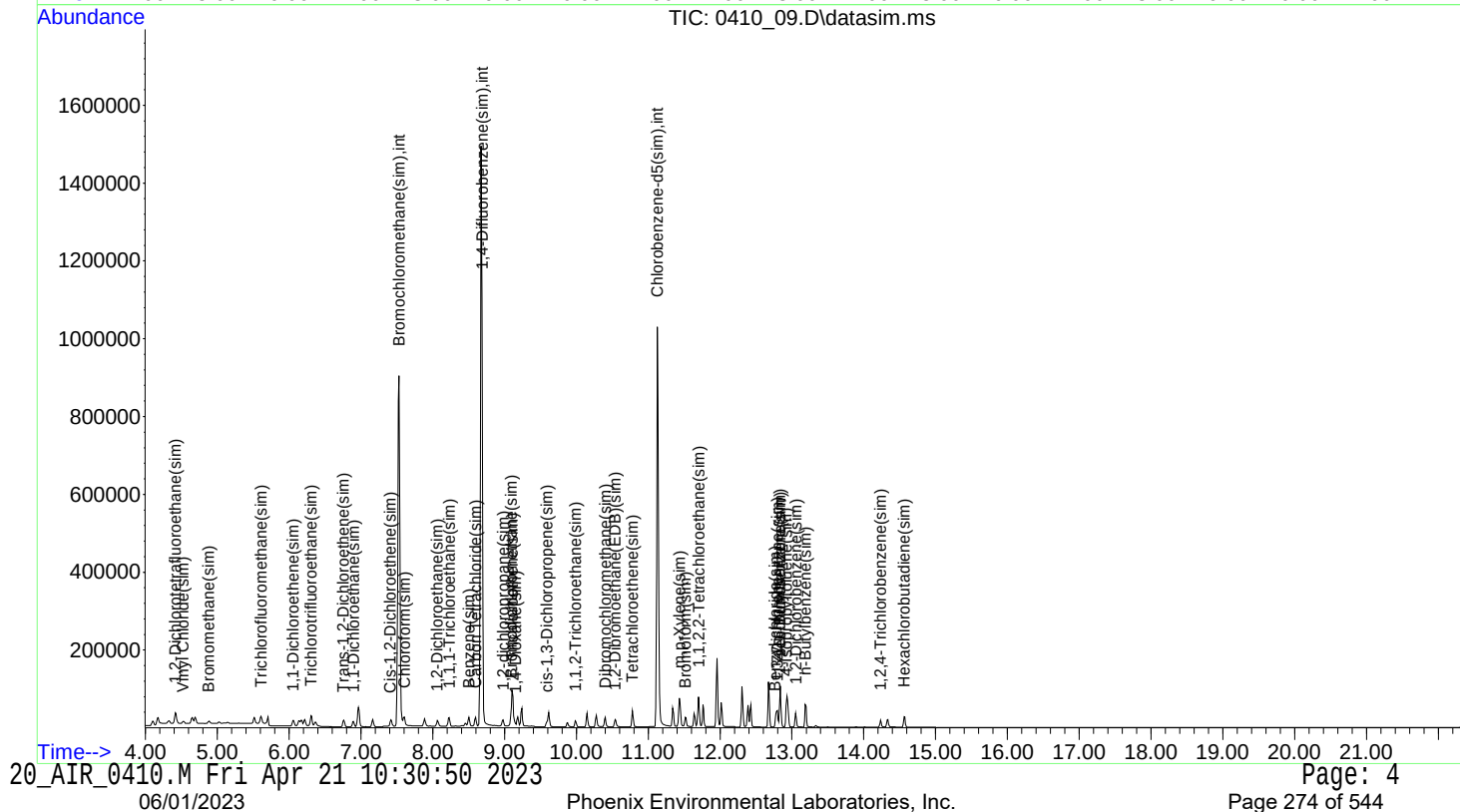
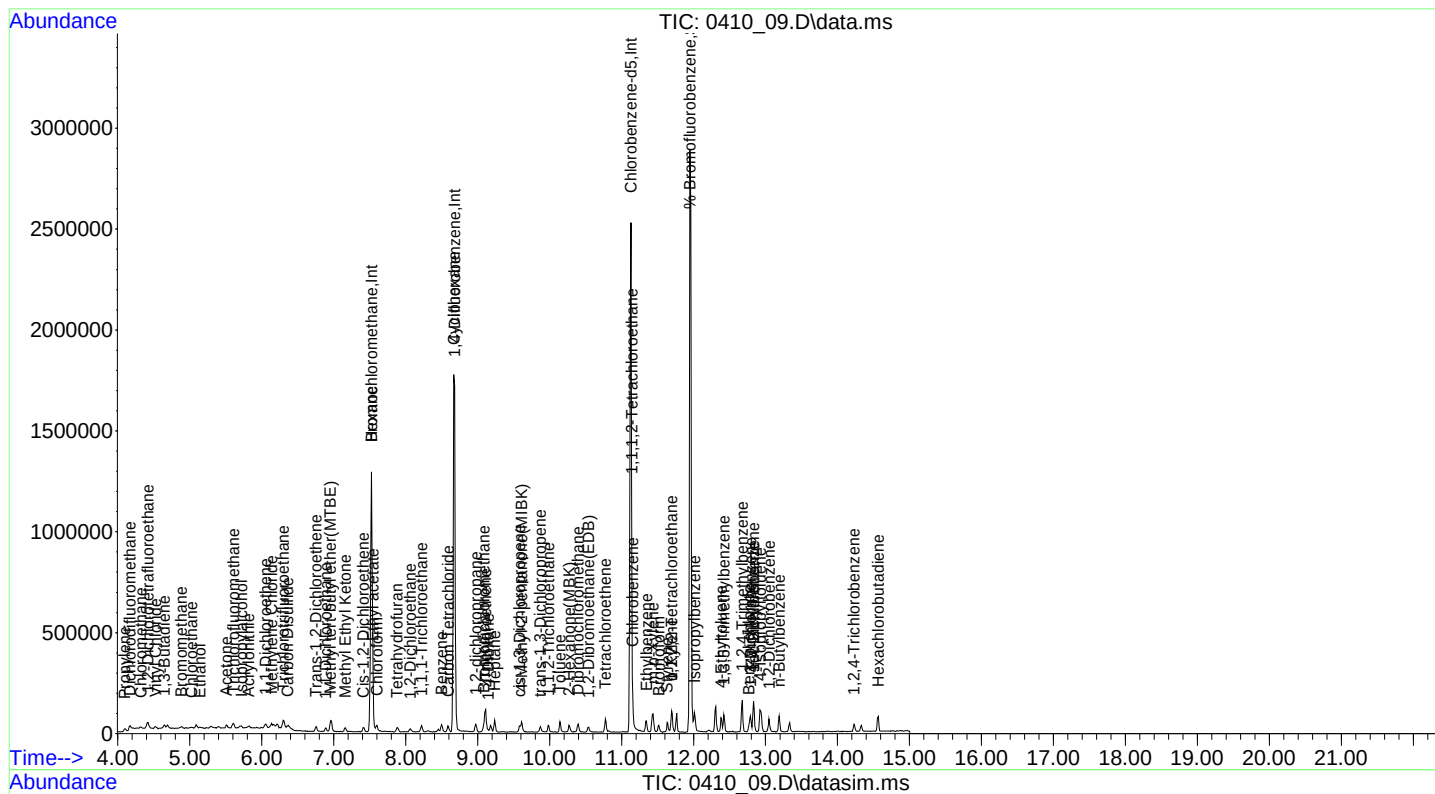
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.191	91	39497	0.178	ppbv	97
119]	1,2,4-Trichlorobenzene...	14.233	180	11600	0.164	ppbv	98
120]	Hexachlorobutadiene(sim)	14.566	225	13761	0.166	ppbv	93

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_09.D
 Acq On : 10 Apr 2023 12:38 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 10 14:00:03 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Apr 10 14:00:00 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_10.D
 Acq On : 10 Apr 2023 1:10 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppbV ; AirT01501Y
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 10 13:53:57 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Sun Apr 02 19:02:16 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	369797	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1366979	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	623577	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	402728	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1364693	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	623901	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	898744	10.133	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.30%

Target Compounds						Qvalue
2) Propylene	4.107	41	22999	0.509	ppbv#	83
3) Dichlorodifluoromethane	4.171	85	43721	0.501	ppbv#	95
4) Chloromethane	4.322	50	22509	0.481	ppbv	95
5) 1,2-Dichlorotetrafluor...	4.419	85	41328	0.509	ppbv	96
6) Vinyl Chloride	4.527	62	18849	0.508	ppbv	90
7) 1,3-Butadiene	4.645	54	18163	0.482	ppbv#	91
8) Bromomethane	4.883	94	15240	0.501	ppbv#	83
9) Chloroethane	5.023	64	9572	0.560	ppbv	88
11) Ethanol	5.141	45	10435	0.618	ppbv	95
12) Acetone	5.508	43	42960	0.506	ppbv	93
13) Trichlorofluoromethane	5.605	101	45597	0.488	ppbv#	96
14) Isopropylalcohol	5.721	45	25289	0.332	ppbv#	76
15) Acrylonitrile	5.816	53	17563	0.484	ppbv	88
16) 1,1-Dichloroethene	6.057	61	32513	0.479	ppbv	94
17) Methylene Chloride	6.135	49	32325	0.504	ppbv#	87
20) Carbon Disulfide	6.368	76	41982	0.498	ppbv	96
21) Trichlorotrifluoroethane	6.307	101	33981	0.494	ppbv	98
22) Trans-1,2-Dichloroethene	6.754	61	29936	0.465	ppbv	90
23) 1,1-Dichloroethane	6.888	63	37217	0.499	ppbv	97
24) Methyl tert-butyl ethe...	6.951	73	46035	0.503	ppbv#	87
26) Methyl Ethyl Ketone	7.156	43	63793	0.492	ppbv#	98
27) Cis-1,2-Dichloroethene	7.421	61	31494	0.485	ppbv	96
28) Hexane	7.525	57	40302	0.510	ppbv	86
29) Chloroform	7.598	83	38338	0.490	ppbv	96
30) Ethyl acetate	7.546	61	9920	0.504	ppbv#	97
31) Tetrahydrofuran	7.879	42	35128	0.477	ppbv	99
32) 1,2-Dichloroethane	8.067	62	29108	0.486	ppbv	93
33) 1,1,1-Trichloroethane	8.223	97	45101	0.489	ppbv	87
34) Benzene	8.499	78	51566	0.468	ppbv	96
35) Carbon Tetrachloride	8.589	117	35783	0.446	ppbv	92
36) Cyclohexane	8.668	84	21803	0.499	ppbv#	91
38) 1,2-dichloropropane	8.974	63	26108	0.487	ppbv	94
39) Bromodichloromethane	9.087	83	38639	0.469	ppbv	98
40) Trichloroethene	9.110	130	27425	0.486	ppbv	91
42) 1,4-Dioxane	9.132	88	12274	0.536	ppbv#	84
44) Heptane	9.234	43	57384	0.484	ppbv	95
45) cis-1,3-Dichloropropene	9.580	75	29757	0.474	ppbv	95
46) 4-Methyl-2-pentanone(M...	9.609	43	76185	0.491	ppbv#	91
47) trans-1,3-Dichloropropene	9.871	75	28627	0.484	ppbv#	93
48) 1,1,2-Trichloroethane	9.988	97	23894	0.488	ppbv	97
49) Toluene	10.143	91	70487	0.488	ppbv	93
50) Dibromochloromethane	10.396	129	39441	0.438	ppbv	91

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_10.D
 Acq On : 10 Apr 2023 1:10 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppbV ; AirT01501Y
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 10 13:53:57 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Sun Apr 02 19:02:16 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.269	43	68018	0.479	ppbv#	92
52)	1,2-Dibromoethane(EDB)	10.541	107	39387	0.483	ppbv	93
53)	Tetrachloroethene	10.774	166	36426	0.471	ppbv	98
55)	1,1,1,2-Tetrachloroethane	11.140	131	28851	0.481	ppbv	91
56)	Chlorobenzene	11.150	112	55260	0.501	ppbv#	67
57)	Ethylbenzene	11.335	91	89855	0.507	ppbv	93
58)	m,p-Xylene	11.427	91	136750	1.032	ppbv	91
59)	Bromoform	11.519	173	38033	0.476	ppbv	95
60)	Styrene	11.632	104	54081	0.518	ppbv	100
61)	1,1,2,2-Tetrachloroethane	11.694	83	50718	0.502	ppbv#	84
62)	o-Xylene	11.694	91	73306	0.515	ppbv	92
65)	Isopropylbenzene	12.011	105	98873	0.515	ppbv	95
67)	4-Ethyltoluene	12.381	105	98528	0.496	ppbv	98
68)	1,3,5-Trimethylbenzene	12.422	105	88108	0.526	ppbv#	97
69)	1,2,4-Trimethylbenzene	12.678	105	85162	0.501	ppbv#	92
71)	Benzyl chloride	12.770	91	58769	0.657	ppbv	95
72)	1,3-Dichlorobenzene	12.791	146	58474	0.491	ppbv	99
73)	1,4-Dichlorobenzene	12.832	146	55432	0.490	ppbv	94
74)	sec-Butylbenzene	12.832	105	118868	0.503	ppbv	93
75)	4-Isopropyltoluene	12.924	119	116181	0.512	ppbv	92
76)	1,2-Dichlorobenzene	13.048	146	58338	0.515	ppbv	94
77)	n-Butylbenzene	13.191	91	93266	0.498	ppbv#	89
78)	1,2,4-Trichlorobenzene	14.228	180	24570	0.330	ppbv	94
80)	Hexachlorobutadiene	14.566	225	29029	0.388	ppbv	92
82)	1,2-Dichlorotetrafluor...	4.419	85	41285	0.466	ppbv	97
83)	Vinyl Chloride(sim)	4.532	62	19376	0.457	ppbv	94
84)	Bromomethane(sim)	4.883	94	15240	0.432	ppbv#	83
85)	Trichlorofluoromethane...	5.610	101	44385	0.465	ppbv#	97
86)	1,2-Dichloroethane(sim)	8.067	62	29108	0.445	ppbv	93
87)	1,1,1-Trichloroethane(...	8.228	97	41063	0.462	ppbv#	93
88)	Benzene(sim)	8.499	78	51566	0.422	ppbv	96
89)	Carbon Tetrachloride(sim)	8.595	117	38710	0.490	ppbv	98
90)	1,1-Dichloroethene(sim)	6.057	61	32513	0.432	ppbv	94
91)	Trichlorotrifluoroetha...	6.313	101	35080	0.461	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.754	61	29936	0.423	ppbv	91
93)	1,1-Dichloroethane(sim)	6.894	63	39957	0.472	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.421	61	31494	0.430	ppbv	96
95)	Chloroform(sim)	7.603	83	39077	0.464	ppbv	99
97)	1,2-dichloropropane(sim)	8.979	63	27534	0.437	ppbv	90
98)	Bromodichloromethane(sim)	9.087	83	38958	0.429	ppbv	96
99)	Trichloroethene(sim)	9.115	130	30150	0.436	ppbv	90
100)	1,4-Dioxane(sim)	9.132	88	12274	0.473	ppbv#	74
101)	cis-1,3-Dichloropropen...	9.586	75	32314	0.463	ppbv	96
102)	1,1,2-Trichloroethane(...	9.988	97	23894	0.421	ppbv	97
103)	Dibromochloromethane(sim)	10.401	129	43206	0.423	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.541	107	39265	0.450	ppbv	93
105)	Tetrachloroethene(sim)	10.780	166	43433	0.429	ppbv	99
107)	Bromoform(sim)	11.515	173	43184	0.461	ppbv	99
108)	m,p-Xylene(sim)	11.427	91	139529	0.935	ppbv#	87
109)	1,1,2,2-Tetrachloroeth...	11.699	83	53996	0.452	ppbv	98
112)	Benzyl chloride(sim)	12.770	91	58769	0.444	ppbv	95
113)	1,3-Dichlorobenzene(sim)	12.797	146	67977	0.485	ppbv	98
114)	1,4-Dichlorobenzene(sim)	12.832	146	55730	0.400	ppbv	93
115)	sec-Butylbenzene(sim)	12.838	105	133346	0.451	ppbv	96
116)	4-Isopropyltoluene(sim)	12.924	119	116181	0.435	ppbv	92

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_10.D
Acq On : 10 Apr 2023 1:10 pm
Operator :
Client ID : ICAL 0.5
Lab ID : 0.50 ppbV ; AirT01501Y
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 10 13:53:57 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Sun Apr 02 19:02:16 2023
Response via : Initial Calibration

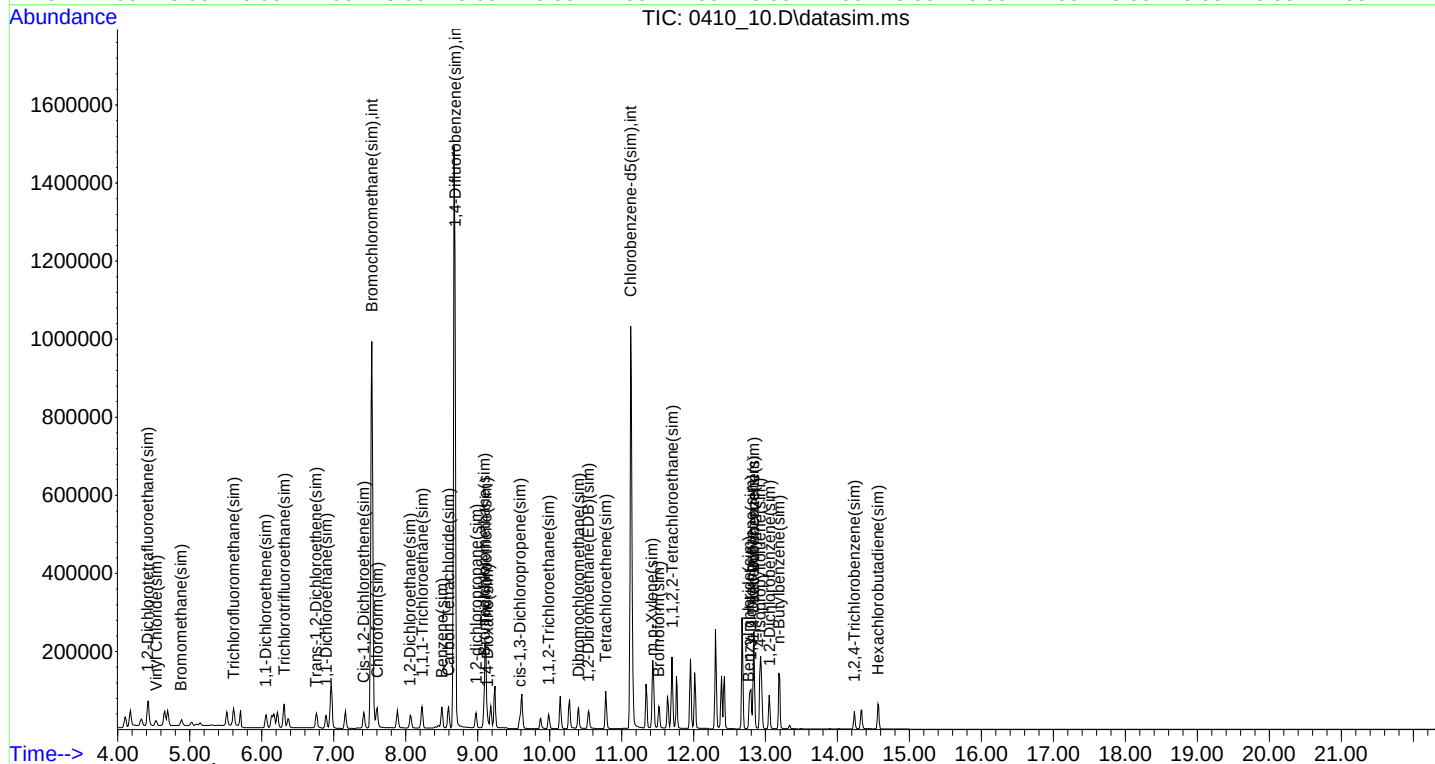
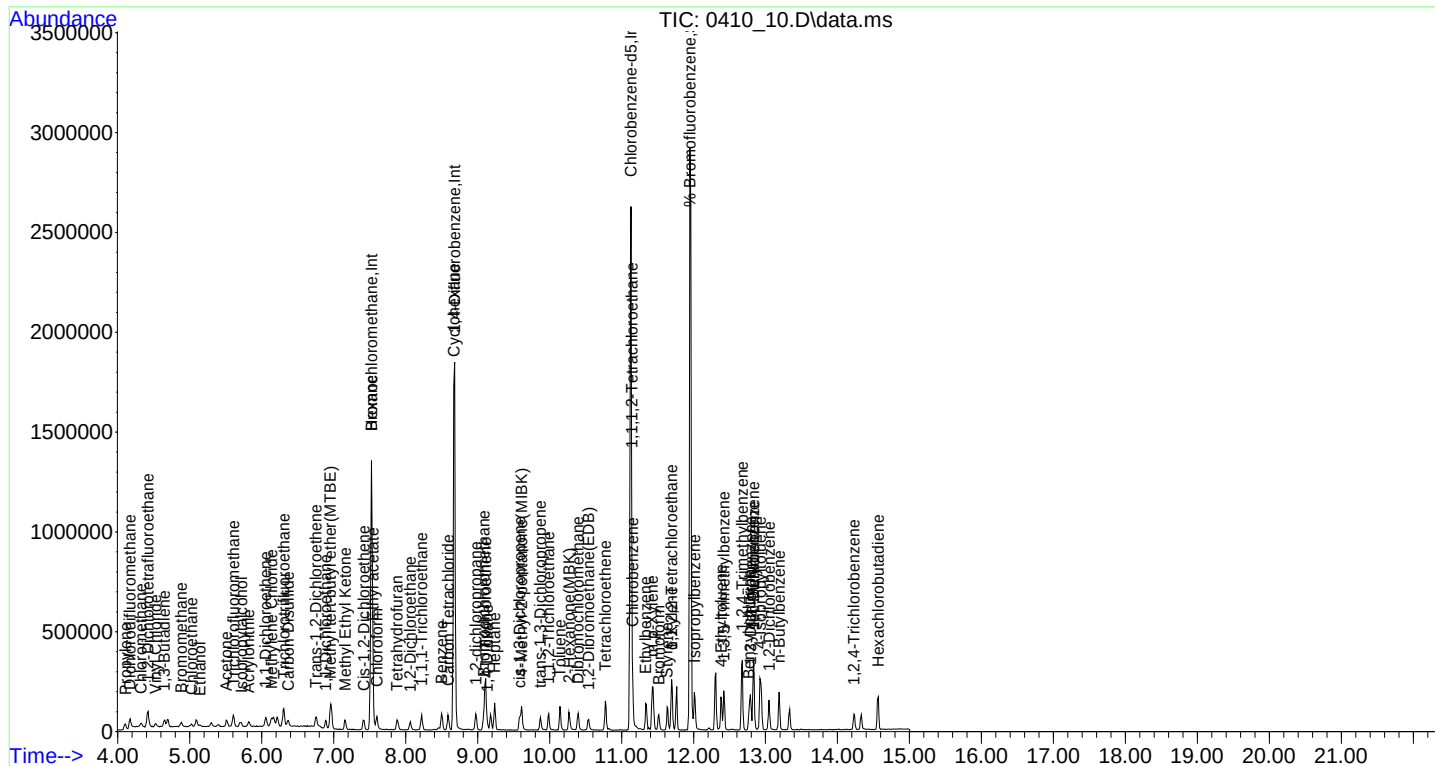
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.053	146	60947	0.464	ppbv	97
118]	n-Butylbenzene(sim)	13.191	91	93266	0.423	ppbv	89
119]	1,2,4-Trichlorobenzene...	14.233	180	28065	0.400	ppbv	99
120]	Hexachlorobutadiene(sim)	14.566	225	29029	0.410	ppbv	91

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_10.D
 Acq On : 10 Apr 2023 1:10 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppbV ; AirT01501Y
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 10 13:53:57 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Sun Apr 02 19:02:16 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_11.D
 Acq On : 10 Apr 2023 1:43 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppbV ; AirT01502B
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 10 14:39:27 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 14:01:38 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.523	130	361951	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.676	114	1351901	10.000	ng	0.00
54) Chlorobenzene-d5	11.126	82	624434	10.000	ng	0.00
81) Bromochloromethane(sim)	7.528	130	394682	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.676	114	1349400	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.126	82	624434	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.956	95	887982	9.960	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.60%

Target Compounds						Qvalue
2) Propylene	4.096	41	104637	2.367	ppbv	90
3) Dichlorodifluoromethane	4.161	85	200820	2.351	ppbv	96
4) Chloromethane	4.311	50	106049	2.317	ppbv	93
5) 1,2-Dichlorotetrafluor...	4.408	85	189288	2.382	ppbv	99
6) Vinyl Chloride	4.516	62	86913	2.391	ppbv	91
7) 1,3-Butadiene	4.635	54	85367	2.316	ppbv	97
8) Bromomethane	4.872	94	70394	2.362	ppbv	93
9) Chloroethane	5.012	64	38472	2.300	ppbv	91
11) Ethanol	5.131	45	35530	2.151	ppbv	96
12) Acetone	5.497	43	193056	2.322	ppbv	100
13) Trichlorofluoromethane	5.605	101	207558	2.268	ppbv	95
14) Isopropylalcohol	5.691	45	192134	2.579	ppbv#	99
15) Acrylonitrile	5.807	53	85725	2.414	ppbv	84
16) 1,1-Dichloroethene	6.049	61	161917	2.435	ppbv	93
17) Methylene Chloride	6.126	49	150817	2.403	ppbv	98
20) Carbon Disulfide	6.359	76	194893	2.362	ppbv	96
21) Trichlorotrifluoroethane	6.299	101	161345	2.397	ppbv	96
22) Trans-1,2-Dichloroethene	6.755	61	155955	2.473	ppbv	99
23) 1,1-Dichloroethane	6.889	63	177024	2.424	ppbv	97
24) Methyl tert-butyl ethe...	6.936	73	219582	2.454	ppbv	96
26) Methyl Ethyl Ketone	7.141	43	286401	2.256	ppbv	99
27) Cis-1,2-Dichloroethene	7.408	61	151567	2.386	ppbv	98
28) Hexane	7.523	57	180678	2.335	ppbv	97
29) Chloroform	7.595	83	183213	2.391	ppbv	98
30) Ethyl acetate	7.533	61	44753	2.324	ppbv	97
31) Tetrahydrofuran	7.877	42	168611	2.339	ppbv	97
32) 1,2-Dichloroethane	8.064	62	141968	2.420	ppbv	93
33) 1,1,1-Trichloroethane	8.220	97	215332	2.384	ppbv	99
34) Benzene	8.495	78	251665	2.333	ppbv	98
35) Carbon Tetrachloride	8.586	117	190242	2.421	ppbv	97
36) Cyclohexane	8.665	84	100764	2.355	ppbv	86
38) 1,2-dichloropropane	8.971	63	124118	2.343	ppbv	91
39) Bromodichloromethane	9.084	83	192575	2.362	ppbv	96
40) Trichloroethene	9.106	130	134259	2.408	ppbv	98
42) 1,4-Dioxane	9.118	88	56959	2.514	ppbv#	91
44) Heptane	9.231	43	280556	2.391	ppbv	96
45) cis-1,3-Dichloropropene	9.587	75	144320	2.325	ppbv	96
46) 4-Methyl-2-pentanone(M...	9.596	43	365236	2.378	ppbv	97
47) trans-1,3-Dichloropropene	9.868	75	137119	2.345	ppbv	98
48) 1,1,2-Trichloroethane	9.985	97	114763	2.368	ppbv	95
49) Toluene	10.140	91	337233	2.362	ppbv	99
50) Dibromochloromethane	10.392	129	197866	2.220	ppbv	95

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_11.D
 Acq On : 10 Apr 2023 1:43 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppbV ; AirT01502B
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 10 14:39:27 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 14:01:38 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.266	43	327596	2.333	ppbv	97
52)	1,2-Dibromoethane(EDB)	10.538	107	187315	2.324	ppbv	95
53)	Tetrachloroethene	10.780	166	179994	2.352	ppbv	94
55)	1,1,1,2-Tetrachloroethane	11.136	131	146507	2.440	ppbv	94
56)	Chlorobenzene	11.147	112	269781	2.443	ppbv	87
57)	Ethylbenzene	11.341	91	428570	2.414	ppbv	99
58)	m,p-Xylene	11.434	91	649158	4.890	ppbv	99
59)	Bromoform	11.516	173	188326	2.355	ppbv	99
60)	Styrene	11.639	104	253161	2.421	ppbv	98
61)	1,1,2,2-Tetrachloroethane	11.690	83	244663	2.417	ppbv	99
62)	o-Xylene	11.700	91	338820	2.378	ppbv	99
65)	Isopropylbenzene	12.018	105	467163	2.432	ppbv	100
67)	4-Ethyltoluene	12.387	105	509900	2.565	ppbv	96
68)	1,3,5-Trimethylbenzene	12.418	105	358276	2.138	ppbv	96
69)	1,2,4-Trimethylbenzene	12.674	105	407877	2.397	ppbv	97
71)	Benzyl chloride	12.777	91	289389	2.499	ppbv	99
72)	1,3-Dichlorobenzene	12.787	146	267884	2.245	ppbv	98
73)	1,4-Dichlorobenzene	12.828	146	262032	2.312	ppbv	98
74)	sec-Butylbenzene	12.838	105	567550	2.398	ppbv	97
75)	4-Isopropyltoluene	12.921	119	539880	2.377	ppbv	97
76)	1,2-Dichlorobenzene	13.044	146	245317	2.161	ppbv	95
77)	n-Butylbenzene	13.187	91	435399	2.324	ppbv	99
78)	1,2,4-Trichlorobenzene	14.234	180	132409	1.778	ppbv	94
80)	Hexachlorobutadiene	14.562	225	142505	1.900	ppbv	94
82)	1,2-Dichlorotetrafluor...	4.408	85	188793	2.172	ppbv	99
83)	Vinyl Chloride(sim)	4.522	62	93351	2.245	ppbv	98
84)	Bromomethane(sim)	4.872	94	70394	2.036	ppbv	93
85)	Trichlorofluoromethane...	5.600	101	210471	2.248	ppbv#	98
86)	1,2-Dichloroethane(sim)	8.064	62	141968	2.214	ppbv	93
87)	1,1,1-Trichloroethane(...	8.226	97	201327	2.311	ppbv#	98
88)	Benzene(sim)	8.495	78	251665	2.102	ppbv	98
89)	Carbon Tetrachloride(sim)	8.591	117	199300	2.577	ppbv	100
90)	1,1-Dichloroethene(sim)	6.049	61	161917	2.193	ppbv	93
91)	Trichlorotrifluoroetha...	6.304	101	168239	2.255	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.755	61	155955	2.248	ppbv	97
93)	1,1-Dichloroethane(sim)	6.886	63	192226	2.319	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.408	61	151567	2.113	ppbv	98
95)	Chloroform(sim)	7.601	83	189601	2.296	ppbv	99
97)	1,2-dichloropropane(sim)	8.976	63	134077	2.151	ppbv	99
98)	Bromodichloromethane(sim)	9.084	83	192575	2.147	ppbv	95
99)	Trichloroethene(sim)	9.112	130	144673	2.117	ppbv	100
100)	1,4-Dioxane(sim)	9.118	88	56959	2.219	ppbv#	91
101)	cis-1,3-Dichloropropen...	9.583	75	157270	2.279	ppbv	100
102)	1,1,2-Trichloroethane(...	9.985	97	114842	2.046	ppbv	95
103)	Dibromochloromethane(sim)	10.398	129	219749	2.178	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.538	107	186605	2.165	ppbv	95
105)	Tetrachloroethene(sim)	10.776	166	205655	2.054	ppbv	99
107)	Bromoform(sim)	11.521	173	208327	2.224	ppbv	100
108)	m,p-Xylene(sim)	11.434	91	659070	4.411	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.695	83	253565	2.122	ppbv	99
112)	Benzyl chloride(sim)	12.777	91	289614	2.185	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.793	146	302539	2.157	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.828	146	262032	1.880	ppbv	97
115)	sec-Butylbenzene(sim)	12.834	105	632041	2.135	ppbv	100
116)	4-Isopropyltoluene(sim)	12.921	119	540356	2.021	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_11.D
Acq On : 10 Apr 2023 1:43 pm
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5 ppbV ; AirT01502B
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 10 14:39:27 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 10 14:01:38 2023
Response via : Initial Calibration

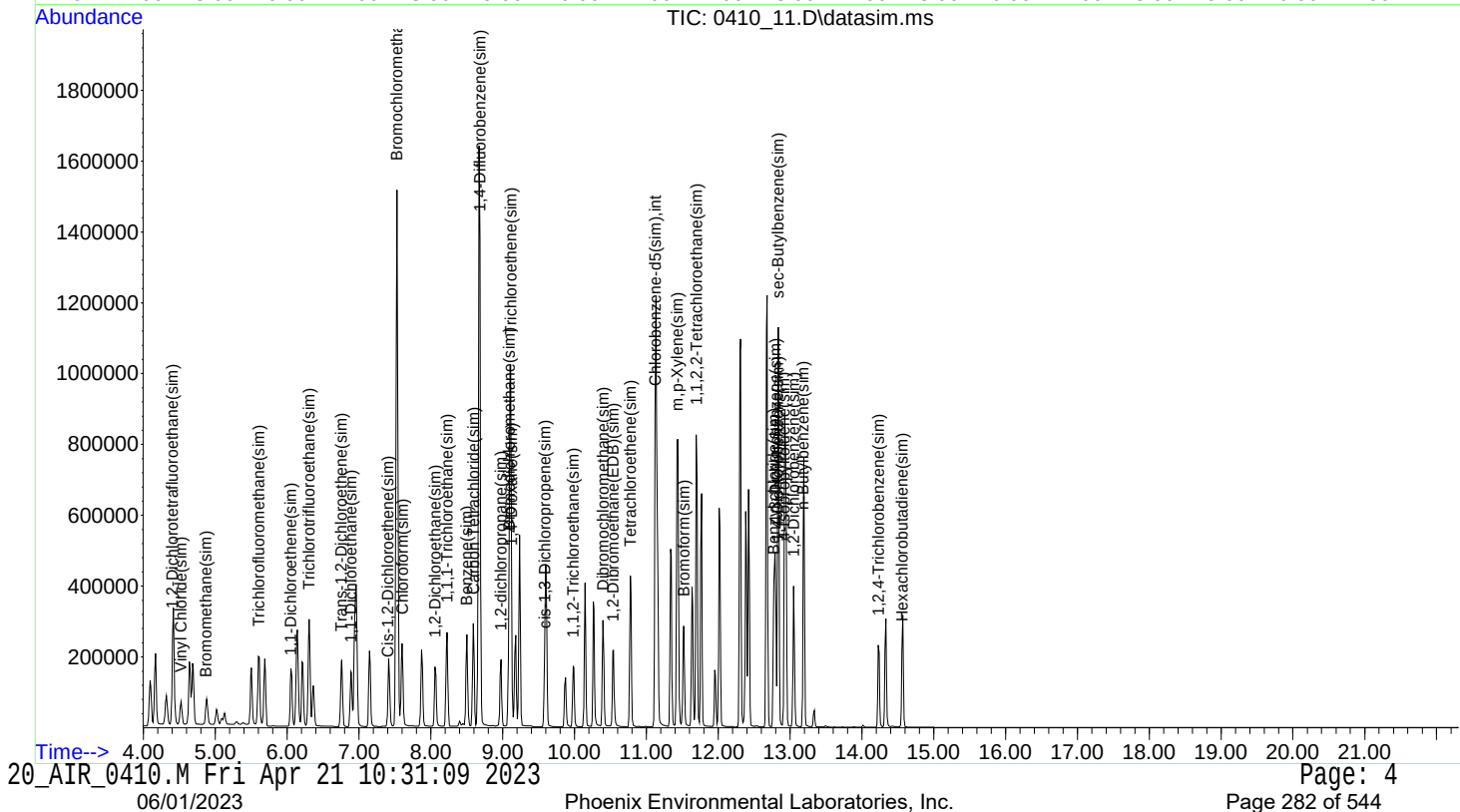
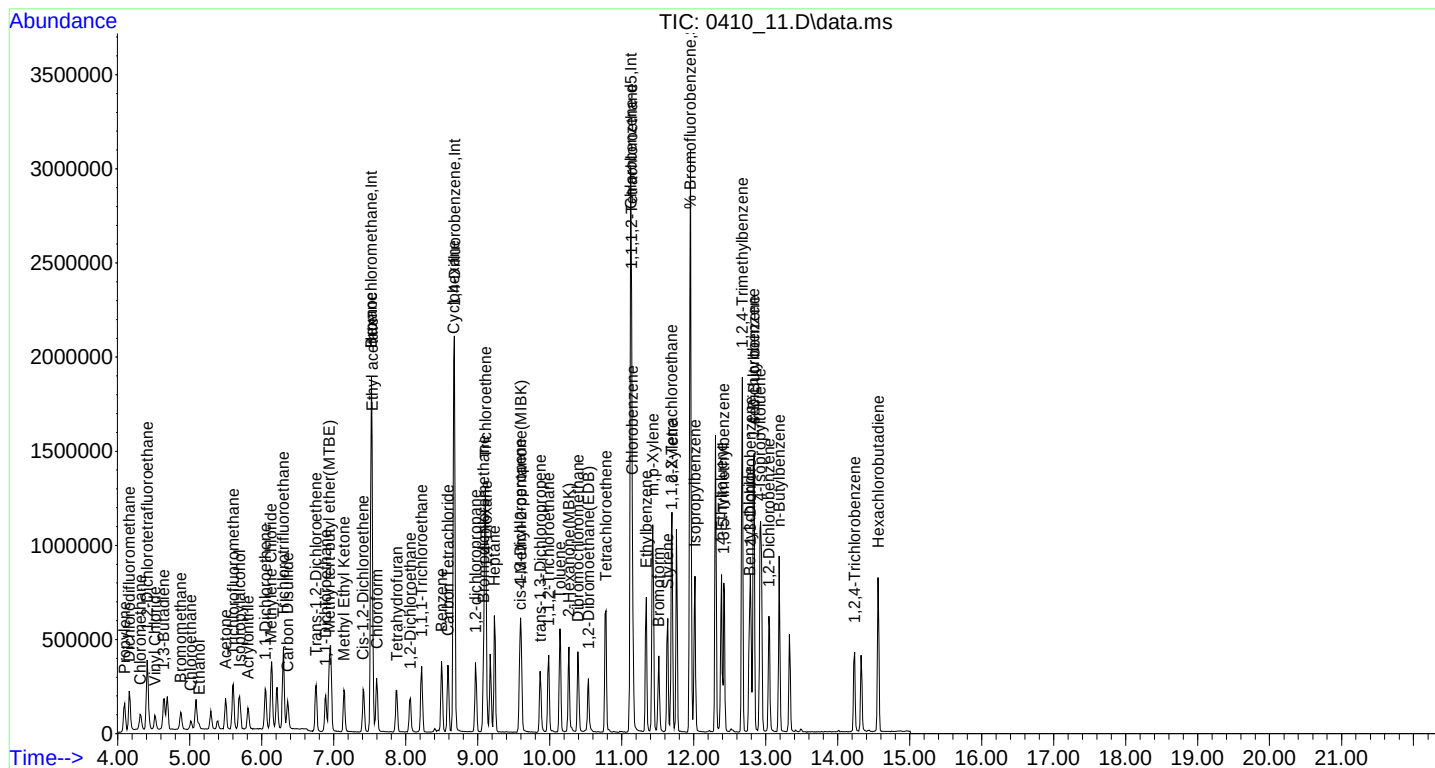
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.049	146	275137	2.094	ppbv	99
118]	n-Butylbenzene(sim)	13.187	91	435399	1.974	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.229	180	154000	2.191	ppbv	99
120]	Hexachlorobutadiene(sim)	14.562	225	142505	2.519	ppbv	94

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_11.D
Acq On : 10 Apr 2023 1:43 pm
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5 ppbV ; AirT01502B
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 10 14:39:27 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 10 14:01:38 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_12.D
 Acq On : 10 Apr 2023 2:14 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 ppbV ; AirT01501Z
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 10 14:39:42 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 14:39:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	363174	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1337112	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	624638	10.000	ng	0.00
81) Bromochloromethane(sim)	7.530	130	392120	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1335275	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	624638	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	896710	10.054	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.50%

Target Compounds						Qvalue
2) Propylene	4.096	41	233572	5.266	ppbv	93
3) Dichlorodifluoromethane	4.160	85	445917	5.204	ppbv	96
4) Chloromethane	4.322	50	234978	5.117	ppbv	91
5) 1,2-Dichlorotetrafluor...	4.408	85	425814	5.339	ppbv	100
6) Vinyl Chloride	4.516	62	194937	5.345	ppbv	88
7) 1,3-Butadiene	4.645	54	189670	5.128	ppbv	97
8) Bromomethane	4.883	94	153567	5.136	ppbv	92
9) Chloroethane	5.023	64	81647	4.864	ppbv	87
11) Ethanol	5.120	45	75327	4.546	ppbv#	83
12) Acetone	5.497	43	424869	5.092	ppbv	98
13) Trichlorofluoromethane	5.605	101	514277	5.601	ppbv#	94
14) Isopropylalcohol	5.680	45	429807	5.750	ppbv#	98
15) Acrylonitrile	5.807	53	185308	5.201	ppbv	89
16) 1,1-Dichloroethene	6.057	61	358920	5.380	ppbv	93
17) Methylene Chloride	6.135	49	329814	5.237	ppbv	98
20) Carbon Disulfide	6.359	76	438293	5.295	ppbv	96
21) Trichlorotrifluoroethane	6.299	101	356509	5.280	ppbv	95
22) Trans-1,2-Dichloroethene	6.754	61	341262	5.394	ppbv	96
23) 1,1-Dichloroethane	6.888	63	404965	5.526	ppbv	97
24) Methyl tert-butyl ethe...	6.936	73	497698	5.542	ppbv	95
26) Methyl Ethyl Ketone	7.141	43	730799	5.737	ppbv#	97
27) Cis-1,2-Dichloroethene	7.410	61	338335	5.309	ppbv	99
28) Hexane	7.525	57	413144	5.322	ppbv	99
29) Chloroform	7.598	83	414788	5.396	ppbv	99
30) Ethyl acetate	7.525	61	102016	5.280	ppbv	97
31) Tetrahydrofuran	7.869	42	373636	5.167	ppbv	97
32) 1,2-Dichloroethane	8.056	62	315967	5.368	ppbv	93
33) 1,1,1-Trichloroethane	8.223	97	492520	5.435	ppbv	91
34) Benzene	8.499	78	561695	5.190	ppbv	96
35) Carbon Tetrachloride	8.589	117	434131	5.506	ppbv	98
36) Cyclohexane	8.668	84	225159	5.244	ppbv#	83
38) 1,2-dichloropropane	8.974	63	280116	5.347	ppbv	93
39) Bromodichloromethane	9.087	83	427593	5.304	ppbv	98
40) Trichloroethene	9.110	130	303433	5.502	ppbv	99
42) 1,4-Dioxane	9.121	88	114762	5.121	ppbv#	84
44) Heptane	9.234	43	635266	5.475	ppbv	95
45) cis-1,3-Dichloropropene	9.580	75	328354	5.347	ppbv	95
46) 4-Methyl-2-pentanone(M...	9.600	43	817862	5.385	ppbv	98
47) trans-1,3-Dichloropropene	9.871	75	305806	5.288	ppbv	99
48) 1,1,2-Trichloroethane	9.978	97	257725	5.376	ppbv	99
49) Toluene	10.143	91	755585	5.351	ppbv	99
50) Dibromochloromethane	10.395	129	484125	5.491	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_12.D
 Acq On : 10 Apr 2023 2:14 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 ppbV ; AirT01501Z
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 10 14:39:42 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 14:39:36 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.260	43	754632	5.434	ppbv	96
52)	1,2-Dibromoethane(EDB)	10.531	107	428972	5.380	ppbv	97
53)	Tetrachloroethene	10.774	166	405004	5.352	ppbv	96
55)	1,1,1,2-Tetrachloroethane	11.140	131	334372	5.568	ppbv	95
56)	Chlorobenzene	11.150	112	618534	5.600	ppbv	85
57)	Ethylbenzene	11.335	91	978690	5.510	ppbv	99
58)	m,p-Xylene	11.427	91	1520976	11.454	ppbv	98
59)	Bromoform	11.519	173	452686	5.659	ppbv	98
60)	Styrene	11.632	104	591736	5.658	ppbv	98
61)	1,1,2,2-Tetrachloroethane	11.694	83	580690	5.734	ppbv	96
62)	o-Xylene	11.694	91	774849	5.436	ppbv	99
65)	Isopropylbenzene	12.011	105	1083387	5.638	ppbv	99
67)	4-Ethyltoluene	12.380	105	1141021	5.738	ppbv	99
68)	1,3,5-Trimethylbenzene	12.422	105	952518	5.682	ppbv	97
69)	1,2,4-Trimethylbenzene	12.678	105	984418	5.783	ppbv	99
71)	Benzyl chloride	12.770	91	794284	6.915	ppbv	98
72)	1,3-Dichlorobenzene	12.791	146	708621	5.937	ppbv	98
73)	1,4-Dichlorobenzene	12.832	146	648153	5.717	ppbv	99
74)	sec-Butylbenzene	12.832	105	1338998	5.656	ppbv	97
75)	4-Isopropyltoluene	12.924	119	1303594	5.738	ppbv	98
76)	1,2-Dichlorobenzene	13.047	146	670637	5.906	ppbv	97
77)	n-Butylbenzene	13.191	91	1082494	5.776	ppbv	100
78)	1,2,4-Trichlorobenzene	14.228	180	475641	6.385	ppbv	93
80)	Hexachlorobutadiene	14.566	225	502916	6.703	ppbv	92
82)	1,2-Dichlorotetrafluor...	4.408	85	425084	4.923	ppbv	100
83)	Vinyl Chloride(sim)	4.522	62	207851	5.030	ppbv	99
84)	Bromomethane(sim)	4.883	94	153567	4.471	ppbv	92
85)	Trichlorofluoromethane...	5.610	101	463820	4.986	ppbv#	97
86)	1,2-Dichloroethane(sim)	8.056	62	315967	4.959	ppbv	93
87)	1,1,1-Trichloroethane(...	8.228	97	463919	5.359	ppbv#	97
88)	Benzene(sim)	8.499	78	561695	4.721	ppbv	96
89)	Carbon Tetrachloride(sim)	8.595	117	458493	5.966	ppbv	100
90)	1,1-Dichloroethene(sim)	6.057	61	358920	4.893	ppbv	93
91)	Trichlorotrifluoroetha...	6.304	101	376482	5.079	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.754	61	341262	4.951	ppbv	95
93)	1,1-Dichloroethane(sim)	6.894	63	431382	5.238	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.410	61	338335	4.748	ppbv	99
95)	Chloroform(sim)	7.603	83	426655	5.199	ppbv	99
97)	1,2-dichloropropane(sim)	8.968	63	303362	4.918	ppbv	99
98)	Bromodichloromethane(sim)	9.087	83	427593	4.817	ppbv	98
99)	Trichloroethene(sim)	9.104	130	324431	4.797	ppbv	100
100)	1,4-Dioxane(sim)	9.121	88	114762	4.517	ppbv#	84
101)	cis-1,3-Dichloropropen...	9.586	75	361835	5.298	ppbv	99
102)	1,1,2-Trichloroethane(...	9.978	97	257611	4.639	ppbv	99
103)	Dibromochloromethane(sim)	10.401	129	523355	5.242	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.531	107	428972	5.029	ppbv	97
105)	Tetrachloroethene(sim)	10.780	166	466012	4.703	ppbv	100
107)	Bromoform(sim)	11.515	173	518687	5.536	ppbv	100
108)	m,p-Xylene(sim)	11.427	91	1541016	10.310	ppbv	97
109)	1,1,2,2-Tetrachloroeth...	11.699	83	600964	5.028	ppbv	98
112)	Benzyl chloride(sim)	12.770	91	794284	5.990	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.797	146	819253	5.839	ppbv	100
114)	1,4-Dichlorobenzene(sim)	12.832	146	648153	4.649	ppbv	98
115)	sec-Butylbenzene(sim)	12.838	105	1470095	4.964	ppbv	100
116)	4-Isopropyltoluene(sim)	12.924	119	1304651	4.878	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_12.D
Acq On : 10 Apr 2023 2:14 pm
Operator :
Client ID : ICAL 5
Lab ID : 5.0 ppbV ; AirT01501Z
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 10 14:39:42 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 10 14:39:36 2023
Response via : Initial Calibration

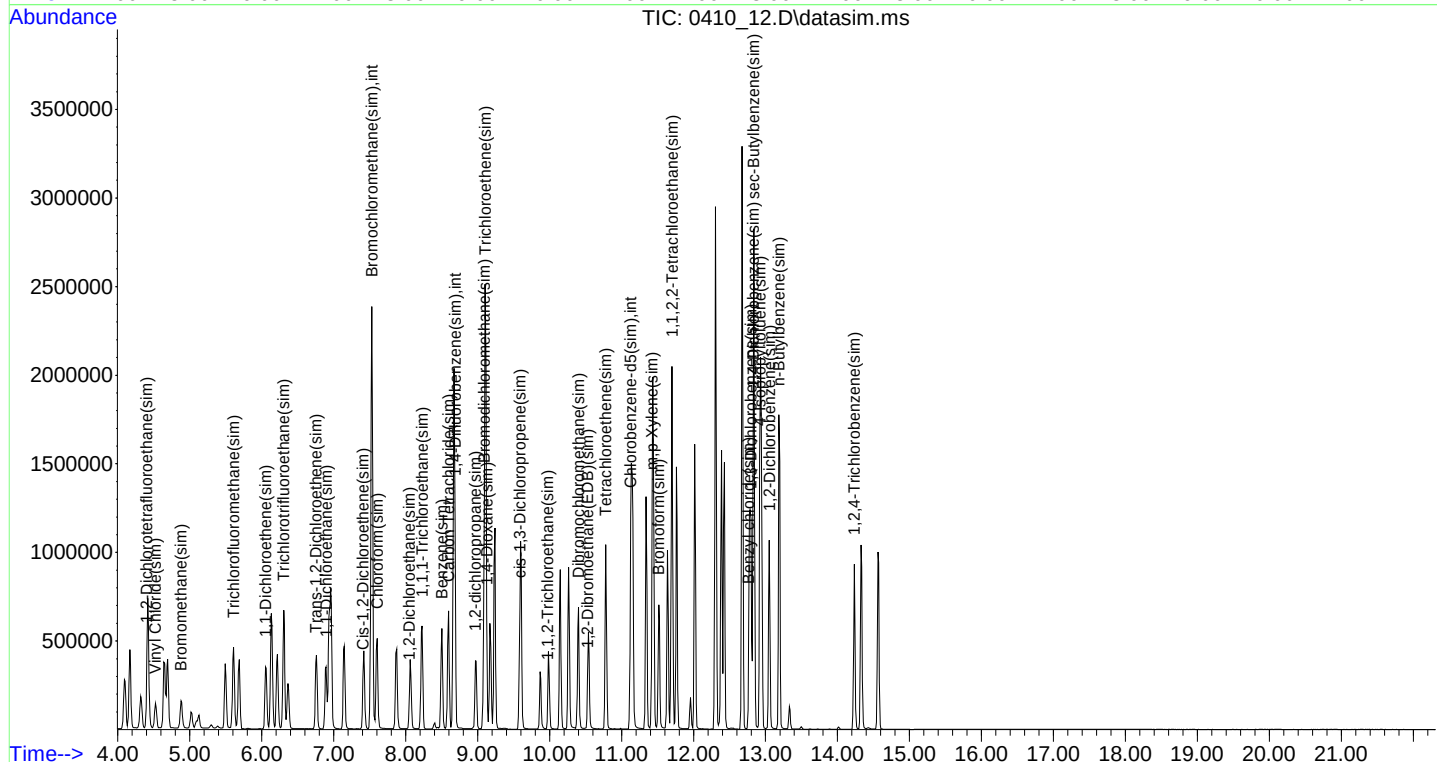
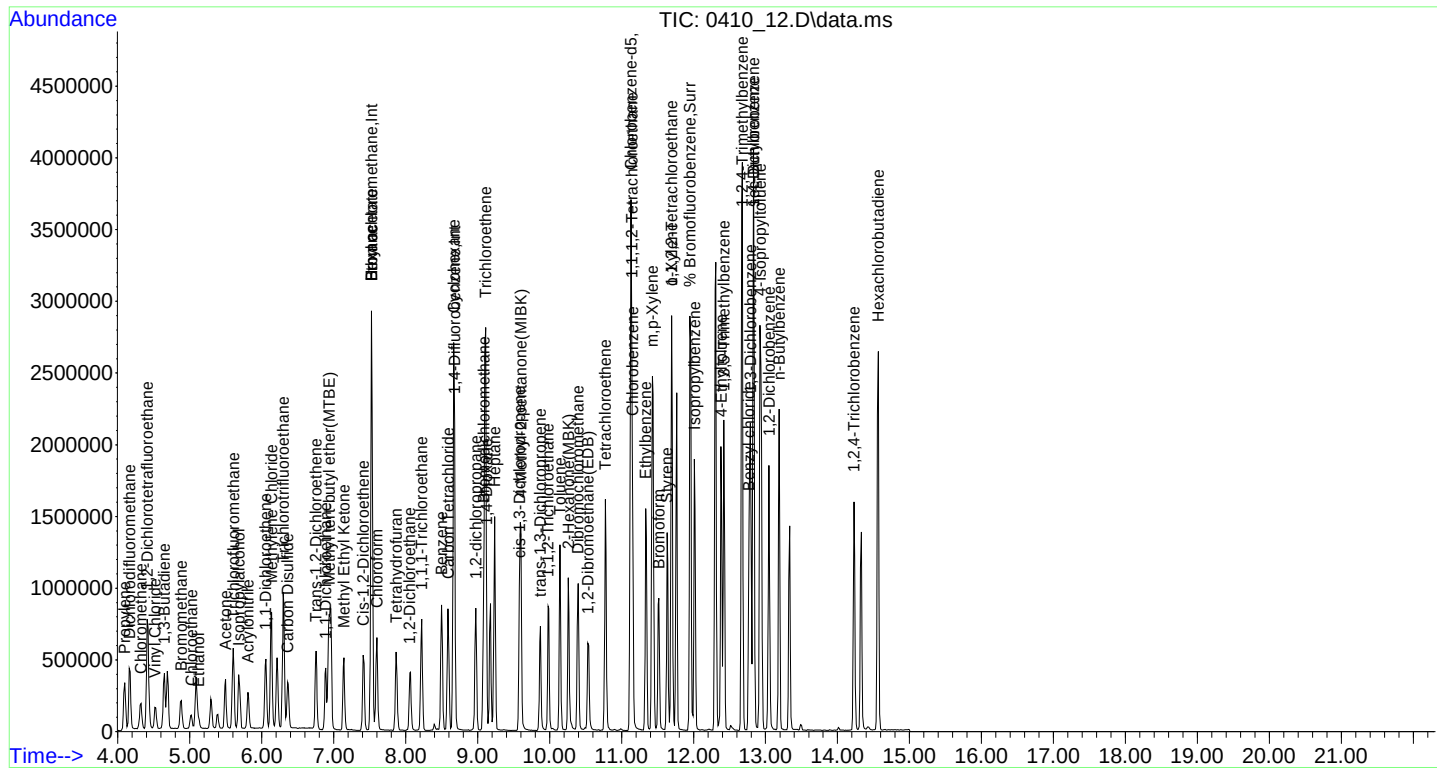
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.053	146	741366	5.640	ppbv	100
118]	n-Butylbenzene(sim)	13.191	91	1082494	4.905	ppbv	100
119]	1,2,4-Trichlorobenzene...	14.233	180	552769	7.863	ppbv	99

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_12.D
 Acq On : 10 Apr 2023 2:14 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 ppbV ; AirT01501Z
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 10 14:39:42 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Mon Apr 10 14:39:36 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_13.D
 Acq On : 10 Apr 2023 2:47 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ppbV ; AirT01501Z
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 10 16:21:44 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 14:39:54 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	358657	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1347380	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	727184	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	390186	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1347380	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	727184	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.960	95	924737	8.894	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	88.90%

Target Compounds					Qvalue
2) Propylene	4.096	41	1050087	23.974	ppbv 92
3) Dichlorodifluoromethane	4.171	85	1990428	23.520	ppbv# 95
4) Chloromethane	4.322	50	1071655	23.630	ppbv 89
5) 1,2-Dichlorotetrafluor...	4.419	85	1864954	23.680	ppbv 100
6) Vinyl Chloride	4.527	62	869990	24.156	ppbv 89
7) 1,3-Butadiene	4.645	54	843728	23.098	ppbv 96
8) Bromomethane	4.883	94	697678	23.629	ppbv 92
9) Chloroethane	5.023	64	370256	22.335	ppbv 89
11) Ethanol	5.120	45	333398	20.373	ppbv# 81
12) Acetone	5.486	43	1923481	23.343	ppbv 98
13) Trichlorofluoromethane	5.605	101	2187022	24.119	ppbv# 94
14) Isopropylalcohol	5.669	45	2026523	27.452	ppbv# 98
15) Acrylonitrile	5.807	53	865435	24.597	ppbv 85
16) 1,1-Dichloroethene	6.057	61	1612076	24.470	ppbv 92
17) Methylene Chloride	6.135	49	1475477	23.724	ppbv 99
20) Carbon Disulfide	6.368	76	1991777	24.364	ppbv 98
21) Trichlorotrifluoroethane	6.307	101	1631983	24.473	ppbv 96
22) Trans-1,2-Dichloroethene	6.754	61	1491620	23.874	ppbv 95
23) 1,1-Dichloroethane	6.888	63	1794906	24.799	ppbv 96
24) Methyl tert-butyl ethe...	6.920	73	2213151	24.956	ppbv 96
26) Methyl Ethyl Ketone	7.133	43	3212554	25.538	ppbv 97
27) Cis-1,2-Dichloroethene	7.410	61	1537447	24.429	ppbv 98
28) Hexane	7.525	57	1872433	24.424	ppbv 98
29) Chloroform	7.598	83	1877141	24.728	ppbv 99
30) Ethyl acetate	7.525	61	462719	24.251	ppbv 97
31) Tetrahydrofuran	7.858	42	1720179	24.086	ppbv 98
32) 1,2-Dichloroethane	8.067	62	1465806	25.215	ppbv 92
33) 1,1,1-Trichloroethane	8.223	97	2243564	25.069	ppbv 90
34) Benzene	8.499	78	2583318	24.170	ppbv 96
35) Carbon Tetrachloride	8.589	117	2072511	26.618	ppbv 99
36) Cyclohexane	8.668	84	1018405	24.017	ppbv# 83
38) 1,2-dichloropropane	8.974	63	1296652	24.562	ppbv 92
39) Bromodichloromethane	9.087	83	2032045	25.013	ppbv 99
40) Trichloroethene	9.110	130	1352445	24.338	ppbv 99
42) 1,4-Dioxane	9.098	88	518027	22.939	ppbv# 86
44) Heptane	9.234	43	2907139	24.863	ppbv 96
45) cis-1,3-Dichloropropene	9.580	75	1556923	25.161	ppbv 96
46) 4-Methyl-2-pentanone(M...	9.590	43	3772274	24.646	ppbv 98
47) trans-1,3-Dichloropropene	9.871	75	1464098	25.125	ppbv 98
48) 1,1,2-Trichloroethane	9.988	97	1185188	24.534	ppbv 98
49) Toluene	10.143	91	3493453	24.550	ppbv 100
50) Dibromochloromethane	10.396	129	2399111	27.004	ppbv 96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_13.D
 Acq On : 10 Apr 2023 2:47 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ppbV ; AirT01501Z
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 10 16:21:44 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 14:39:54 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.260	43	3556216	25.414	ppbv	96
52)	1,2-Dibromoethane(EDB)	10.541	107	1980337	24.648	ppbv	98
53)	Tetrachloroethene	10.774	166	1849782	24.256	ppbv	97
55)	1,1,1,2-Tetrachloroethane	11.140	131	1620543	23.178	ppbv	94
56)	Chlorobenzene	11.150	112	2885537	22.439	ppbv	84
57)	Ethylbenzene	11.345	91	4471265	21.624	ppbv	99
58)	m,p-Xylene	11.437	91	7007650	45.331	ppbv	98
59)	Bromoform	11.519	173	2341478	25.143	ppbv	99
60)	Styrene	11.632	104	2773823	22.782	ppbv	98
61)	1,1,2,2-Tetrachloroethane	11.694	83	2694763	22.858	ppbv	96
62)	o-Xylene	11.704	91	3590687	21.638	ppbv	100
65)	Isopropylbenzene	12.011	105	4949228	22.123	ppbv	99
67)	4-Ethyltoluene	12.381	105	5250768	22.682	ppbv	99
68)	1,3,5-Trimethylbenzene	12.422	105	4439360	22.748	ppbv	96
69)	1,2,4-Trimethylbenzene	12.678	105	4551243	22.967	ppbv	100
71)	Benzyl chloride	12.770	91	3824546	12.824	ppbv	97
72)	1,3-Dichlorobenzene	12.791	146	3226536	23.219	ppbv	98
73)	1,4-Dichlorobenzene	12.832	146	3042497	23.050	ppbv	98
74)	sec-Butylbenzene	12.842	105	6267953	22.742	ppbv	97
75)	4-Isopropyltoluene	12.924	119	6100267	23.065	ppbv	98
76)	1,2-Dichlorobenzene	13.048	146	3122687	23.623	ppbv	96
77)	n-Butylbenzene	13.191	91	5145365	23.583	ppbv	100
78)	1,2,4-Trichlorobenzene	14.228	180	2556208	29.475	ppbv	94
80)	Hexachlorobutadiene	14.566	225	2354620	26.957	ppbv	94
82)	1,2-Dichlorotetrafluor...	4.419	85	1862756	21.679	ppbv	100
83)	Vinyl Chloride(sim)	4.522	62	934058	22.718	ppbv	99
84)	Bromomethane(sim)	4.883	94	697678	20.412	ppbv	92
85)	Trichlorofluoromethane...	5.610	101	2092926	22.611	ppbv#	97
86)	1,2-Dichloroethane(sim)	8.067	62	1465806	23.120	ppbv	92
87)	1,1,1-Trichloroethane(...	8.228	97	2132861	24.762	ppbv#	98
88)	Benzene(sim)	8.499	78	2584979	21.836	ppbv	96
89)	Carbon Tetrachloride(sim)	8.595	117	2167892	28.350	ppbv	100
90)	1,1-Dichloroethene(sim)	6.057	61	1612076	22.084	ppbv	92
91)	Trichlorotrifluoroetha...	6.304	101	1687506	22.878	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.754	61	1491620	21.747	ppbv	94
93)	1,1-Dichloroethane(sim)	6.894	63	1949687	23.793	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.410	61	1537447	21.680	ppbv	98
95)	Chloroform(sim)	7.603	83	1952861	23.917	ppbv	99
97)	1,2-dichloropropane(sim)	8.979	63	1399840	22.489	ppbv	99
98)	Bromodichloromethane(sim)	9.087	83	2032045	22.686	ppbv	99
99)	Trichloroethene(sim)	9.115	130	1455456	21.328	ppbv	100
100)	1,4-Dioxane(sim)	9.098	88	518027	20.207	ppbv#	86
101)	cis-1,3-Dichloropropen...	9.586	75	1686906	24.478	ppbv	99
102)	1,1,2-Trichloroethane(...	9.988	97	1185188	21.151	ppbv	98
103)	Dibromochloromethane(sim)	10.401	129	2582691	25.635	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.541	107	1980337	23.008	ppbv	98
105)	Tetrachloroethene(sim)	10.780	166	2128791	21.293	ppbv	100
107)	Bromoform(sim)	11.525	173	2647267	24.269	ppbv	99
108)	m,p-Xylene(sim)	11.437	91	7064015	40.596	ppbv	97
109)	1,1,2,2-Tetrachloroeth...	11.699	83	2742872	19.714	ppbv	98
112)	Benzyl chloride(sim)	12.770	91	3824546	24.773	ppbv	97
113)	1,3-Dichlorobenzene(sim)	12.797	146	3642813	22.302	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.832	146	3042497	18.745	ppbv	97
115)	sec-Butylbenzene(sim)	12.838	105	6653985	19.300	ppbv	99
116)	4-Isopropyltoluene(sim)	12.924	119	6106353	19.611	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_13.D
Acq On : 10 Apr 2023 2:47 pm
Operator :
Client ID : ICAL 25
Lab ID : 25 ppbV ; AirT01501Z
ALS Vial : 10 Sample Multiplier: 1

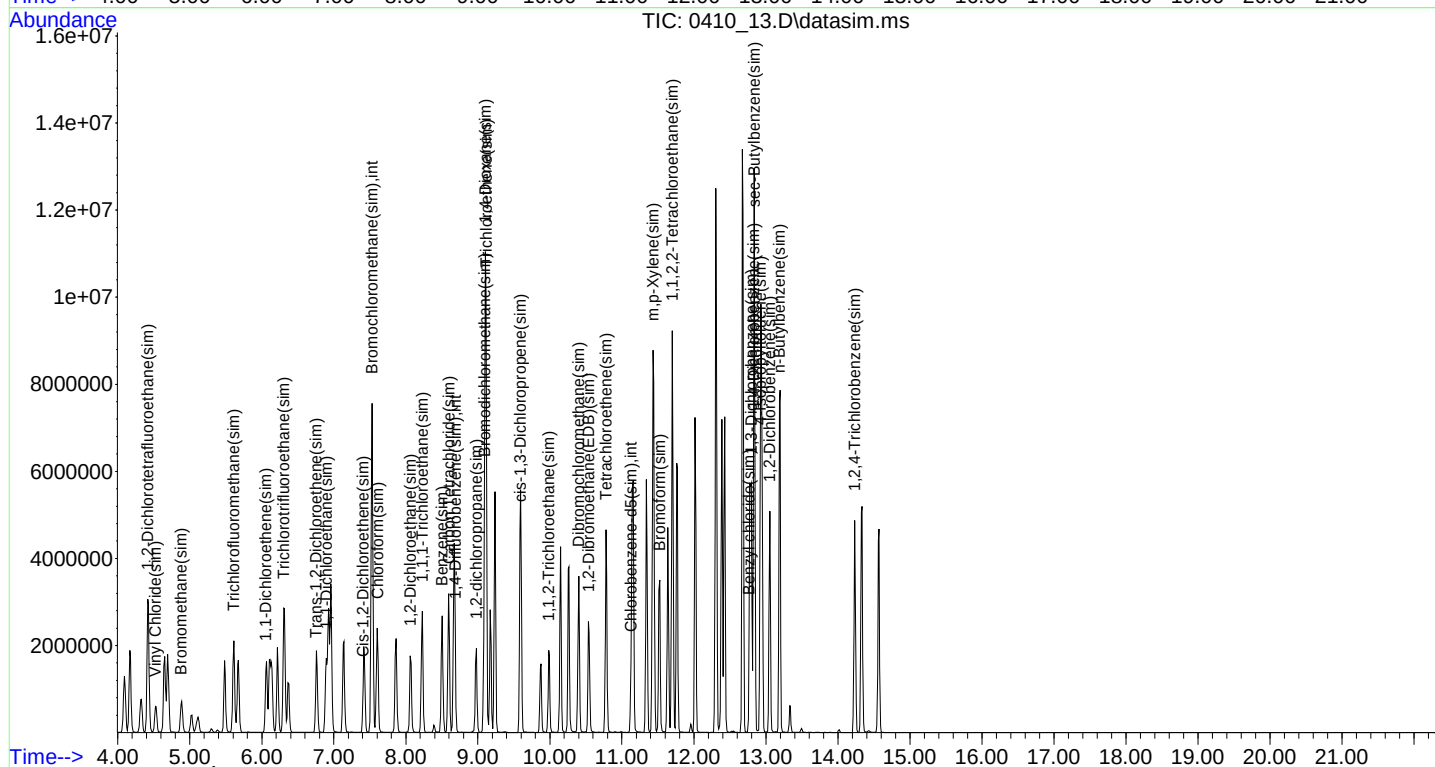
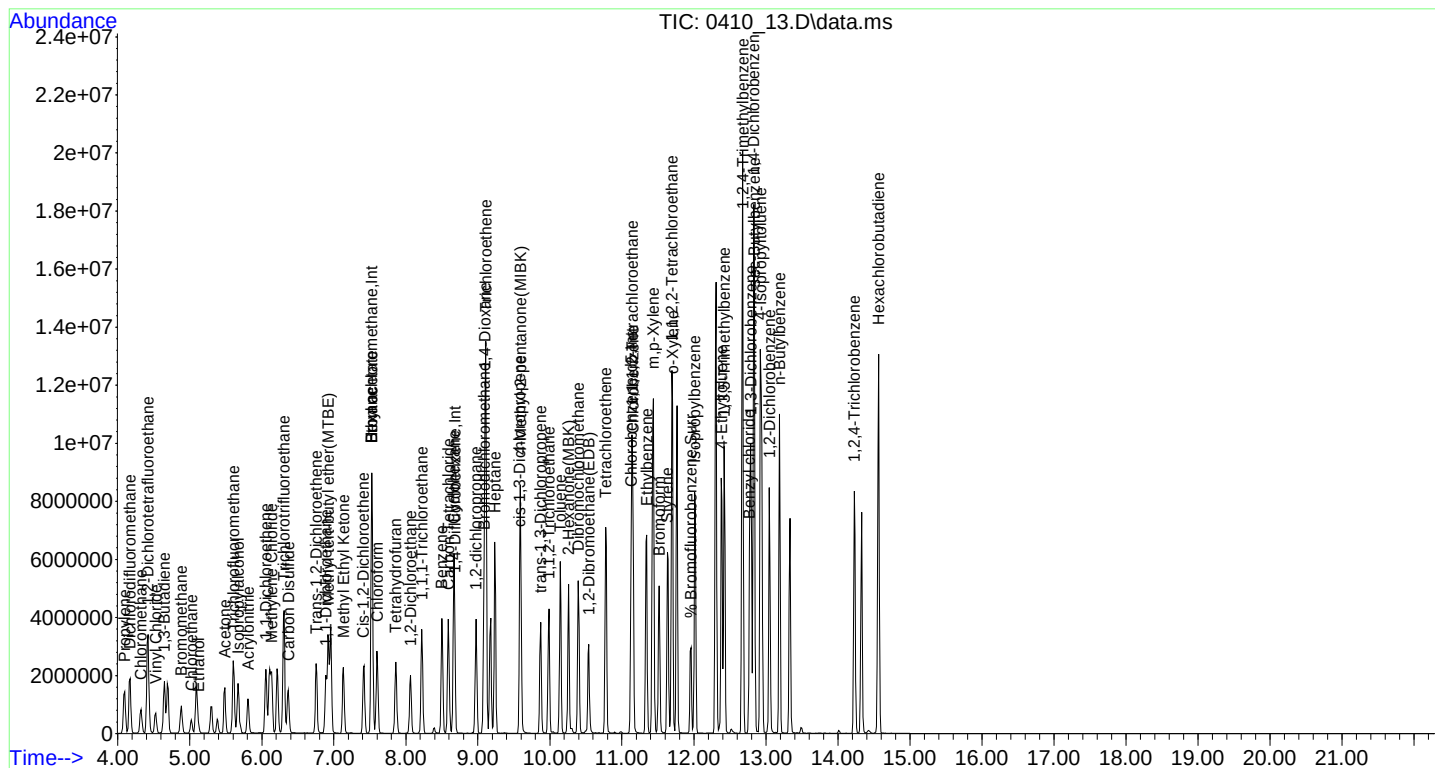
Quant Time: Apr 10 16:21:44 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 10 14:39:54 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.053	146	3427292	22.398	ppbv	99
118]	n-Butylbenzene(sim)	13.191	91	5145365	20.029	ppbv	100
119]	1,2,4-Trichlorobenzene...	14.233	180	2889853	35.311	ppbv	98

(#)out of range (m)manual integration reviewed by analyst (+)signals summed


```
Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_13.D
Acq On : 10 Apr 2023 2:47 pm
Operator :
Client ID : ICAL 25
Lab ID : 25 ppbV ; AirT01501Z
ALS Vial : 10 Sample Multiplier: 1
```

Quant Time: Apr 10 16:21:44 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 10 14:39:54 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_14.D
 Acq On : 10 Apr 2023 3:22 pm
 Operator :
 Client ID : ICAL 40
 Lab ID : 40 ppbV ; AirT01501Z
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 10 16:21:54 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 16:21:51 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	360387	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1363562	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	798956	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	393520	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1363735	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	800447	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.960	95	952391	8.526	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	85.30%

Target Compounds						Qvalue
2) Propylene	4.085	41	1674099	38.036	ppbv	92
3) Dichlorodifluoromethane	4.171	85	3177326	37.364	ppbv#	95
4) Chloromethane	4.322	50	1701031	37.327	ppbv	89
5) 1,2-Dichlorotetrafluor...	4.408	85	3030421	38.294	ppbv	100
6) Vinyl Chloride	4.527	62	1397615	38.620	ppbv	89
7) 1,3-Butadiene	4.645	54	1367192	37.248	ppbv	97
8) Bromomethane	4.883	94	1118168	37.689	ppbv	92
9) Chloroethane	5.023	64	610232	36.635	ppbv	90
11) Ethanol	5.109	45	517733	31.486	ppbv#	80
12) Acetone	5.475	43	3099720	37.437	ppbv	98
13) Trichlorofluoromethane	5.605	101	3680081	40.391	ppbv#	94
14) Isopropylalcohol	5.659	45	3368410	45.411	ppbv#	98
15) Acrylonitrile	5.807	53	1421388	40.204	ppbv#	85
16) 1,1-Dichloroethene	6.057	61	2600135	39.279	ppbv	93
17) Methylene Chloride	6.135	49	2403867	38.465	ppbv	99
20) Carbon Disulfide	6.368	76	3243148	39.481	ppbv	98
21) Trichlorotrifluoroethane	6.307	101	2626646	39.199	ppbv	97
22) Trans-1,2-Dichloroethene	6.754	61	2413667	38.447	ppbv	96
23) 1,1-Dichloroethane	6.888	63	2646613	36.392	ppbv	96
24) Methyl tert-butyl ethe...	6.920	73	3287552	36.894	ppbv	96
26) Methyl Ethyl Ketone	7.133	43	4722406	37.360	ppbv	99
27) Cis-1,2-Dichloroethene	7.421	61	2504132	39.597	ppbv	98
28) Hexane	7.535	57	3017649	39.173	ppbv	98
29) Chloroform	7.598	83	3053848	40.035	ppbv	99
30) Ethyl acetate	7.525	61	743801	38.795	ppbv	96
31) Tetrahydrofuran	7.858	42	2778498	38.718	ppbv	98
32) 1,2-Dichloroethane	8.067	62	2379316	40.733	ppbv	92
33) 1,1,1-Trichloroethane	8.223	97	3689277	41.025	ppbv	91
34) Benzene	8.499	78	4185203	38.970	ppbv	96
35) Carbon Tetrachloride	8.589	117	3403966	43.508	ppbv	98
36) Cyclohexane	8.668	84	1632868	38.323	ppbv#	83
38) 1,2-dichloropropane	8.974	63	2084850	39.024	ppbv	93
39) Bromodichloromethane	9.087	83	3331787	40.524	ppbv	98
40) Trichloroethene	9.110	130	2153451	38.293	ppbv	98
42) 1,4-Dioxane	9.098	88	825682	36.129	ppbv#	85
44) Heptane	9.234	43	4647591	39.276	ppbv	96
45) cis-1,3-Dichloropropene	9.580	75	2546486	40.665	ppbv	96
46) 4-Methyl-2-pentanone(M...	9.590	43	6040812	39.000	ppbv	98
47) trans-1,3-Dichloropropene	9.871	75	2410752	40.880	ppbv	98
48) 1,1,2-Trichloroethane	9.988	97	1945734	39.800	ppbv	99
49) Toluene	10.143	91	5602375	38.903	ppbv	100
50) Dibromochloromethane	10.396	129	3938600	43.806	ppbv	95

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_14.D
 Acq On : 10 Apr 2023 3:22 pm
 Operator :
 Client ID : ICAL 40
 Lab ID : 40 ppbV ; AirT01501Z
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 10 16:21:54 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Apr 10 16:21:51 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.260	43	5751837	40.617	ppbv	97
52)	1,2-Dibromoethane(EDB)	10.541	107	3277842	40.313	ppbv	98
53)	Tetrachloroethene	10.774	166	3022128	39.159	ppbv	96
55)	1,1,1,2-Tetrachloroethane	11.140	131	2651415	34.516	ppbv	95
56)	Chlorobenzene	11.150	112	4657976	32.968	ppbv	85
57)	Ethylbenzene	11.345	91	7284519	32.064	ppbv	100
58)	m,p-Xylene	11.437	91	11188095	65.871	ppbv	99
59)	Bromoform	11.519	173	3888330	38.003	ppbv	98
60)	Styrene	11.642	104	4541437	33.949	ppbv	98
61)	1,1,2,2-Tetrachloroethane	11.694	83	4276972	33.020	ppbv	96
62)	o-Xylene	11.704	91	5790374	31.758	ppbv	100
65)	Isopropylbenzene	12.022	105	7992352	32.516	ppbv	99
67)	4-Ethyltoluene	12.381	105	8368861	32.904	ppbv	99
68)	1,3,5-Trimethylbenzene	12.422	105	7186477	33.516	ppbv	96
69)	1,2,4-Trimethylbenzene	12.678	105	7292984	33.497	ppbv	99
72)	1,3-Dichlorobenzene	12.791	146	5216831	34.169	ppbv	99
73)	1,4-Dichlorobenzene	12.832	146	4981074	34.347	ppbv	99
74)	sec-Butylbenzene	12.842	105	9899840	32.692	ppbv	98
75)	4-Isopropyltoluene	12.924	119	9676703	33.301	ppbv	99
76)	1,2-Dichlorobenzene	13.048	146	5059600	34.837	ppbv	96
77)	n-Butylbenzene	13.191	91	8150321	34.000	ppbv	98
78)	1,2,4-Trichlorobenzene	14.228	180	4252098	44.626	ppbv	94
80)	Hexachlorobutadiene	14.566	225	3844020	40.055	ppbv	94
82)	1,2-Dichlorotetrafluor...	4.408	85	3026656	34.926	ppbv	99
83)	Vinyl Chloride(sim)	4.522	62	1509703	36.407	ppbv	99
84)	Bromomethane(sim)	4.883	94	1118168	32.438	ppbv	92
85)	Trichlorofluoromethane...	5.610	101	3365164	36.048	ppbv#	98
86)	1,2-Dichloroethane(sim)	8.067	62	2379316	37.211	ppbv	92
87)	1,1,1-Trichloroethane(...	8.228	97	3449823	39.712	ppbv#	98
88)	Benzene(sim)	8.499	78	4188905	35.085	ppbv	96
89)	Carbon Tetrachloride(sim)	8.595	117	3538092	45.877	ppbv	99
90)	1,1-Dichloroethene(sim)	6.057	61	2600135	35.318	ppbv	93
91)	Trichlorotrifluoroetha...	6.304	101	2721223	36.580	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.754	61	2413667	34.892	ppbv	94
93)	1,1-Dichloroethane(sim)	6.894	63	2880789	34.857	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.421	61	2504132	35.013	ppbv	98
95)	Chloroform(sim)	7.604	83	3174042	38.543	ppbv	99
97)	1,2-dichloropropane(sim)	8.980	63	2273451	36.086	ppbv	99
98)	Bromodichloromethane(sim)	9.087	83	3331787	36.750	ppbv	98
99)	Trichloroethene(sim)	9.115	130	2330815	33.745	ppbv	99
100)	1,4-Dioxane(sim)	9.098	88	825682	31.822	ppbv#	85
101)	cis-1,3-Dichloropropen...	9.586	75	2741546	39.304	ppbv	99
102)	1,1,2-Trichloroethane(...	9.988	97	1945734	34.308	ppbv	99
103)	Dibromochloromethane(sim)	10.401	129	4251581	41.694	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.541	107	3277842	37.626	ppbv	98
105)	Tetrachloroethene(sim)	10.780	166	3429764	33.894	ppbv	100
107)	Bromoform(sim)	11.525	173	4418220	36.798	ppbv	99
108)	m,p-Xylene(sim)	11.437	91	11254603	58.759	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.699	83	4391603	28.675	ppbv	98
112)	Benzyl chloride(sim)	12.781	91	6084110	35.802	ppbv	97
113)	1,3-Dichlorobenzene(sim)	12.797	146	5811646	32.324	ppbv	98
114)	1,4-Dichlorobenzene(sim)	12.832	146	4981074	27.880	ppbv	98
115)	sec-Butylbenzene(sim)	12.838	105	10322057	27.198	ppbv	97
116)	4-Isopropyltoluene(sim)	12.924	119	9677954	28.237	ppbv	99
117)	1,2-Dichlorobenzene(sim)	13.053	146	5487735	32.580	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_14.D
Acq On : 10 Apr 2023 3:22 pm
Operator :
Client ID : ICAL 40
Lab ID : 40 ppbv ; AirT01501Z
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 10 16:21:54 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Apr 10 16:21:51 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.191	91	8150321	28.822	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.233	180	4751302	52.742	ppbv	98

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_15.D
 Acq On : 10 Apr 2023 3:53 pm
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 ppbV ; AirT01502B
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 10:02:30 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	378736	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1383826	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	630854	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	407191	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1380365	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	630854	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	884527	10.267	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.70%

Target Compounds						Qvalue
2) Propylene	4.096	41	44172	0.955	ppbv	87
3) Dichlorodifluoromethane	4.160	85	86444	0.967	ppbv	97
4) Chloromethane	4.322	50	48992	1.023	ppbv	93
5) 1,2-Dichlorotetrafluor...	4.408	85	81351	0.978	ppbv	98
6) Vinyl Chloride	4.516	62	36284	0.954	ppbv	93
7) 1,3-Butadiene	4.646	54	39822	1.032	ppbv	92
8) Bromomethane	4.883	94	30385	0.975	ppbv#	92
9) Chloroethane	5.023	64	16485	0.942	ppbv	96
11) Ethanol	5.131	45	15996	0.926	ppbv#	77
12) Acetone	5.497	43	86440	0.993	ppbv	97
13) Trichlorofluoromethane	5.605	101	90578	0.946	ppbv	95
14) Isopropylalcohol	5.691	45	64634	0.829	ppbv	95
15) Acrylonitrile	5.816	53	37035	0.997	ppbv	84
16) 1,1-Dichloroethene	6.057	61	68692	0.987	ppbv	95
17) Methylene Chloride	6.135	49	64715	0.985	ppbv	97
20) Carbon Disulfide	6.359	76	84627	0.980	ppbv#	95
21) Trichlorotrifluoroethane	6.299	101	68207	0.969	ppbv	97
22) Trans-1,2-Dichloroethene	6.754	61	64430	0.977	ppbv	99
23) 1,1-Dichloroethane	6.888	63	76877	1.006	ppbv	97
24) Methyl tert-butyl ethe...	6.944	73	93315	0.996	ppbv	97
26) Methyl Ethyl Ketone	7.149	43	128120	0.964	ppbv	100
27) Cis-1,2-Dichloroethene	7.410	61	63289	0.952	ppbv	97
28) Hexane	7.525	57	77080	0.952	ppbv	95
29) Chloroform	7.598	83	77672	0.969	ppbv	99
30) Ethyl acetate	7.535	61	19607	0.973	ppbv	96
31) Tetrahydrofuran	7.879	42	71894	0.953	ppbv	99
32) 1,2-Dichloroethane	8.067	62	59915	0.976	ppbv	96
33) 1,1,1-Trichloroethane	8.223	97	92823	0.982	ppbv	95
34) Benzene	8.499	78	108843	0.964	ppbv	98
35) Carbon Tetrachloride	8.589	117	78265	0.952	ppbv	99
36) Cyclohexane	8.668	84	44407	0.992	ppbv	91
38) 1,2-dichloropropane	8.974	63	52511	0.969	ppbv	92
39) Bromodichloromethane	9.087	83	81029	0.971	ppbv	96
40) Trichloroethene	9.110	130	58617	1.027	ppbv	98
42) 1,4-Dioxane	9.132	88	24832	1.071	ppbv#	80
44) Heptane	9.234	43	120536	1.004	ppbv	95
45) cis-1,3-Dichloropropene	9.580	75	63300	0.996	ppbv	98
46) 4-Methyl-2-pentanone(M...	9.609	43	157766	1.004	ppbv	97
47) trans-1,3-Dichloropropene	9.871	75	58612	0.979	ppbv	99
48) 1,1,2-Trichloroethane	9.988	97	52831	1.065	ppbv	95
49) Toluene	10.143	91	146046	0.999	ppbv	97
50) Dibromochloromethane	10.396	129	87973	0.964	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_15.D
 Acq On : 10 Apr 2023 3:53 pm
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 ppbv ; AirT01502B
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 10:02:30 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.269	43	142760	0.993	ppbv	97
52)	1,2-Dibromoethane(EDB)	10.541	107	83344	1.010	ppbv	99
53)	Tetrachloroethene	10.774	166	78137	0.998	ppbv	91
55)	1,1,1,2-Tetrachloroethane	11.140	131	62720	1.034	ppbv	96
56)	Chlorobenzene	11.150	112	118524	1.062	ppbv	92
57)	Ethylbenzene	11.335	91	187807	1.047	ppbv	97
58)	m,p-Xylene	11.427	91	285740	2.131	ppbv	95
59)	Bromoform	11.519	173	81507	1.009	ppbv	96
60)	Styrene	11.632	104	114974	1.088	ppbv	98
61)	1,1,2,2-Tetrachloroethane	11.694	83	108721	1.063	ppbv	97
62)	o-Xylene	11.694	91	144880	1.006	ppbv	98
65)	Isopropylbenzene	12.011	105	205349	1.058	ppbv	99
67)	4-Ethyltoluene	12.381	105	205544	1.023	ppbv	98
68)	1,3,5-Trimethylbenzene	12.422	105	176416	1.042	ppbv	97
69)	1,2,4-Trimethylbenzene	12.678	105	177285	1.031	ppbv	99
71)	Benzyl chloride	12.771	91	129239	0.997	ppbv	98
72)	1,3-Dichlorobenzene	12.791	146	130844	1.085	ppbv	97
73)	1,4-Dichlorobenzene	12.832	146	123042	1.075	ppbv	100
74)	sec-Butylbenzene	12.832	105	248937	1.041	ppbv	97
75)	4-Isopropyltoluene	12.924	119	237443	1.035	ppbv	97
76)	1,2-Dichlorobenzene	13.048	146	117565	1.025	ppbv	95
77)	n-Butylbenzene	13.191	91	195005	1.030	ppbv	99
78)	1,2,4-Trichlorobenzene	14.228	180	85370	1.135	ppbv	96
80)	Hexachlorobutadiene	14.566	225	72722	0.960	ppbv	95
82)	1,2-Dichlorotetrafluor...	4.408	85	80946	0.903	ppbv	98
83)	Vinyl Chloride(sim)	4.522	62	39757	0.927	ppbv	99
84)	Bromomethane(sim)	4.883	94	30385	0.852	ppbv	94
85)	Trichlorofluoromethane...	5.610	101	91177	0.944	ppbv#	98
86)	1,2-Dichloroethane(sim)	8.067	62	59915	0.906	ppbv	96
87)	1,1,1-Trichloroethane(...	8.228	97	86556	0.963	ppbv#	98
88)	Benzene(sim)	8.499	78	108843	0.881	ppbv	98
89)	Carbon Tetrachloride(sim)	8.595	117	82524	1.034	ppbv	100
90)	1,1-Dichloroethene(sim)	6.057	61	68692	0.902	ppbv	95
91)	Trichlorotrifluoroetha...	6.304	101	72024	0.936	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.754	61	64430	0.900	ppbv	98
93)	1,1-Dichloroethane(sim)	6.894	63	82248	0.962	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.410	61	63289	0.855	ppbv	97
95)	Chloroform(sim)	7.604	83	81287	0.954	ppbv	100
97)	1,2-dichloropropane(sim)	8.980	63	57516	0.902	ppbv	100
98)	Bromodichloromethane(sim)	9.087	83	81303	0.886	ppbv	95
99)	Trichloroethene(sim)	9.104	130	62580	0.895	ppbv	100
100)	1,4-Dioxane(sim)	9.132	88	24832	0.945	ppbv#	80
101)	cis-1,3-Dichloropropen...	9.586	75	68501	0.970	ppbv	99
102)	1,1,2-Trichloroethane(...	9.988	97	52831	0.920	ppbv	95
103)	Dibromochloromethane(sim)	10.401	129	95487	0.925	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.541	107	83344	0.945	ppbv	99
105)	Tetrachloroethene(sim)	10.780	166	88587	0.865	ppbv	100
107)	Bromoform(sim)	11.515	173	95766	1.012	ppbv	100
108)	m,p-Xylene(sim)	11.427	91	292966	1.941	ppbv	95
109)	1,1,2,2-Tetrachloroeth...	11.699	83	114231	0.946	ppbv	100
112)	Benzyl chloride(sim)	12.771	91	129078	0.964	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.797	146	146760	1.036	ppbv	100
114)	1,4-Dichlorobenzene(sim)	12.832	146	123042	0.874	ppbv	99
115)	sec-Butylbenzene(sim)	12.838	105	277131	0.927	ppbv	100
116)	4-Isopropyltoluene(sim)	12.924	119	237443	0.879	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_15.D
Acq On : 10 Apr 2023 3:53 pm
Operator :
Client ID : ICAL 1
Lab ID : 1.0 ppbV ; AirT01502B
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 10:02:30 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration

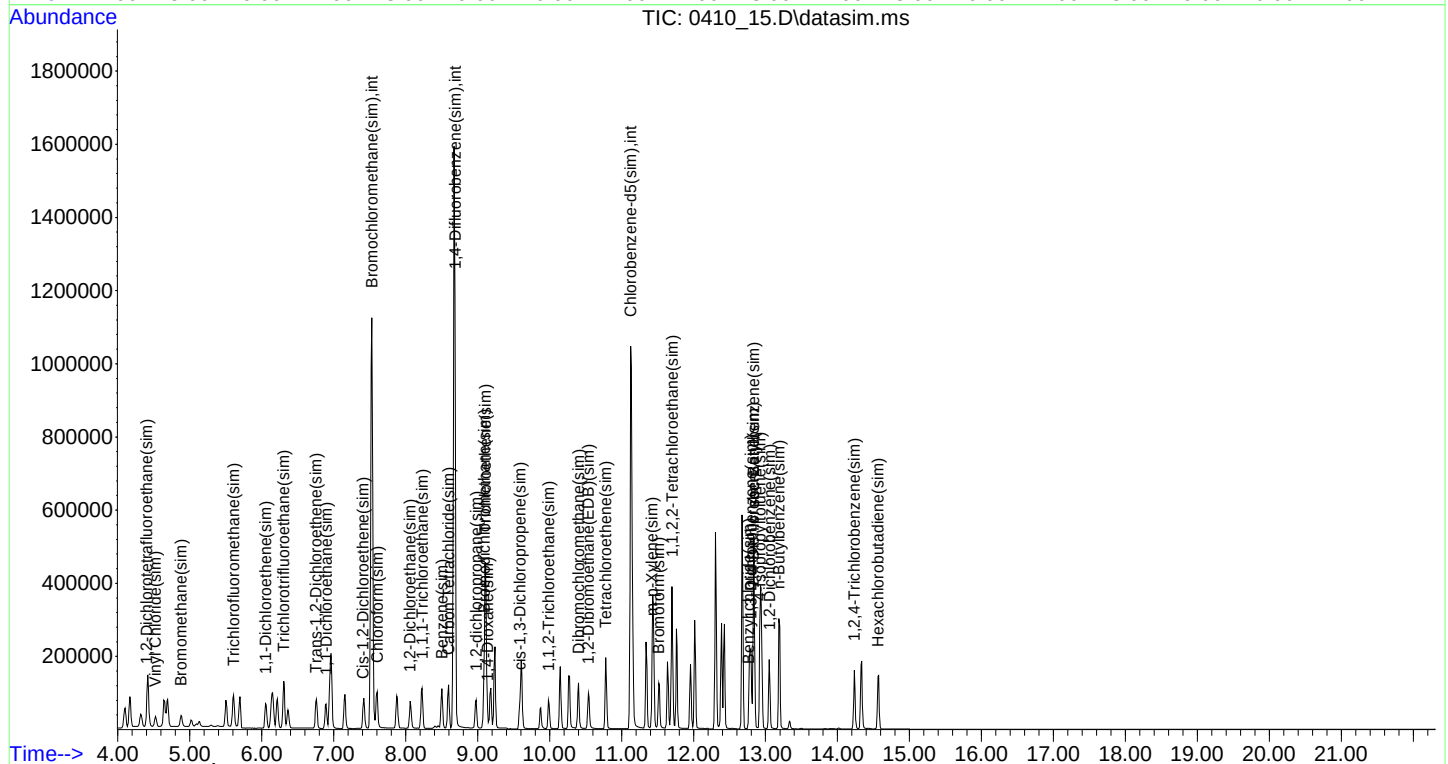
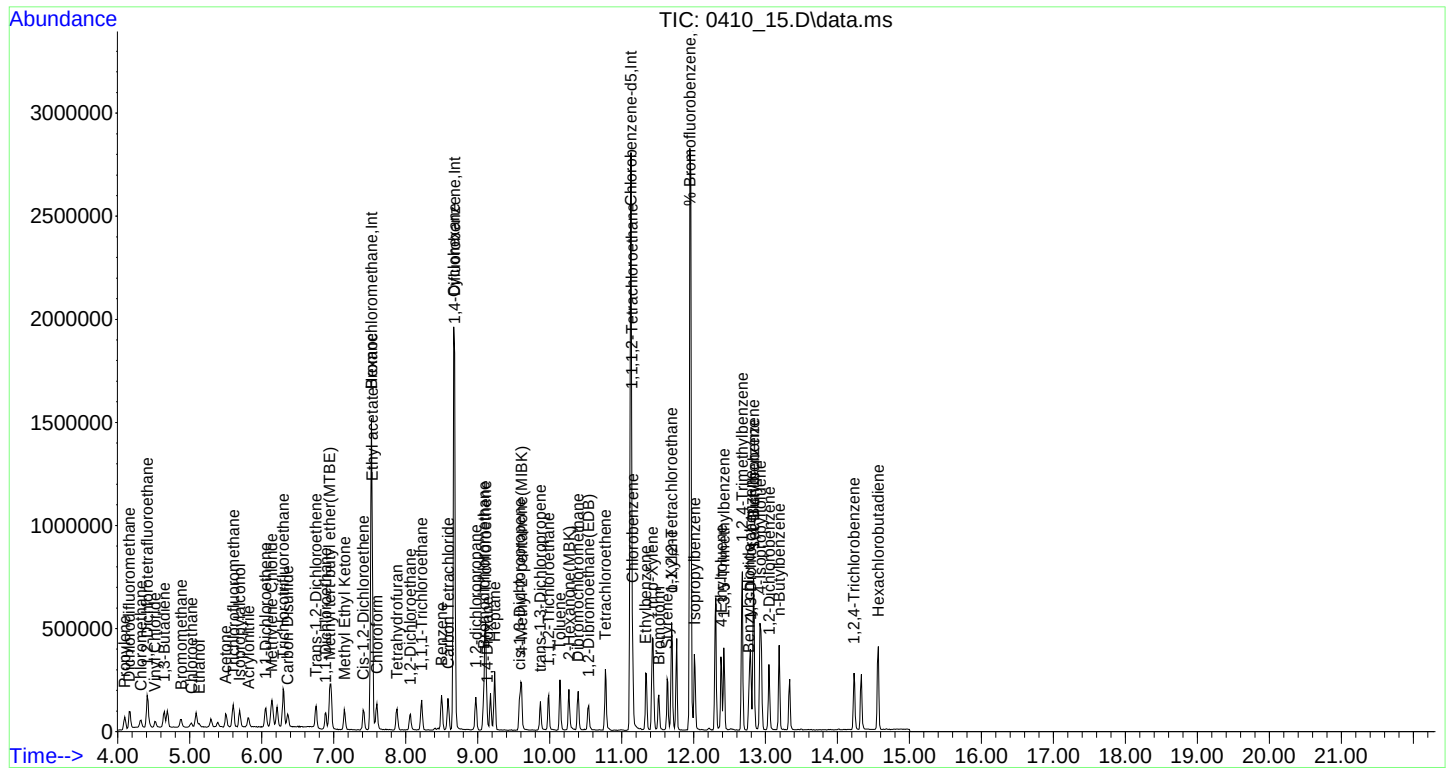
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.053	146	131581	0.991	ppbv	100
118]	n-Butylbenzene(sim)	13.191	91	195005	0.875	ppbv	100
119]	1,2,4-Trichlorobenzene...	14.233	180	98931	1.393	ppbv	100
120]	Hexachlorobutadiene(sim)	14.566	225	72722	0.929	ppbv	95

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_15.D
 Acq On : 10 Apr 2023 3:53 pm
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 ppbV ; AirT01502B
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 10:02:30 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_16.D
 Acq On : 10 Apr 2023 4:24 pm
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ppbV ; AirT01501Z
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 11 10:02:44 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	370430	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1392534	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	676163	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	403594	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1390942	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	676163	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	907229	9.825	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.30%

Target Compounds						Qvalue
2) Propylene	4.096	41	445034	9.837	ppbv	92
3) Dichlorodifluoromethane	4.160	85	840304	9.614	ppbv	96
4) Chloromethane	4.322	50	460749	9.837	ppbv	89
5) 1,2-Dichlorotetrafluor...	4.408	85	798941	9.822	ppbv	99
6) Vinyl Chloride	4.516	62	368483	9.906	ppbv	90
7) 1,3-Butadiene	4.645	54	353720	9.376	ppbv	98
8) Bromomethane	4.883	94	291377	9.555	ppbv	93
9) Chloroethane	5.012	64	162144	9.470	ppbv	89
11) Ethanol	5.109	45	138893	8.218	ppbv#	80
12) Acetone	5.486	43	814443	9.570	ppbv	98
13) Trichlorofluoromethane	5.605	101	995335	10.628	ppbv#	92
14) Isopropylalcohol	5.669	45	904295	11.861	ppbv#	98
15) Acrylonitrile	5.807	53	360094	9.909	ppbv	86
16) 1,1-Dichloroethene	6.057	61	687618	10.106	ppbv	92
17) Methylene Chloride	6.126	49	630948	9.822	ppbv	99
20) Carbon Disulfide	6.359	76	840702	9.957	ppbv	97
21) Trichlorotrifluoroethane	6.299	101	682672	9.912	ppbv	97
22) Trans-1,2-Dichloroethene	6.754	61	630814	9.776	ppbv	95
23) 1,1-Dichloroethane	6.888	63	698532	9.345	ppbv	96
24) Methyl tert-butyl ethe...	6.920	73	862673	9.419	ppbv	97
26) Methyl Ethyl Ketone	7.133	43	1375115	10.584	ppbv#	97
27) Cis-1,2-Dichloroethene	7.410	61	649283	9.989	ppbv	98
28) Hexane	7.525	57	776782	9.810	ppbv	100
29) Chloroform	7.598	83	783499	9.993	ppbv	98
30) Ethyl acetate	7.525	61	194576	9.874	ppbv	94
31) Tetrahydrofuran	7.858	42	719734	9.758	ppbv	98
32) 1,2-Dichloroethane	8.056	62	610600	10.170	ppbv	93
33) 1,1,1-Trichloroethane	8.223	97	955309	10.335	ppbv	91
34) Benzene	8.499	78	1094887	9.918	ppbv	96
35) Carbon Tetrachloride	8.589	117	844989	10.507	ppbv	98
36) Cyclohexane	8.668	84	420648	9.605	ppbv#	83
38) 1,2-dichloropropane	8.974	63	539170	9.882	ppbv	93
39) Bromodichloromethane	9.087	83	843729	10.049	ppbv	98
40) Trichloroethene	9.110	130	570270	9.930	ppbv	99
42) 1,4-Dioxane	9.110	88	217347	9.312	ppbv#	89
44) Heptane	9.234	43	1205204	9.973	ppbv	96
45) cis-1,3-Dichloropropene	9.580	75	637683	9.971	ppbv	96
46) 4-Methyl-2-pentanone(M...	9.590	43	1600413	10.117	ppbv	97
47) trans-1,3-Dichloropropene	9.871	75	609299	10.117	ppbv	97
48) 1,1,2-Trichloroethane	9.988	97	496055	9.936	ppbv	99
49) Toluene	10.143	91	1463161	9.949	ppbv	99
50) Dibromochloromethane	10.396	129	958433	10.438	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_16.D
 Acq On : 10 Apr 2023 4:24 pm
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ppbV ; AirT01501Z
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 11 10:02:44 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.260	43	1507586	10.425	ppbv	96
52)	1,2-Dibromoethane(EDB)	10.531	107	818761	9.860	ppbv	96
53)	Tetrachloroethene	10.774	166	770101	9.771	ppbv	97
55)	1,1,1,2-Tetrachloroethane	11.140	131	657957	10.121	ppbv	95
56)	Chlorobenzene	11.150	112	1188685	9.941	ppbv	84
57)	Ethylbenzene	11.335	91	1867448	9.713	ppbv	99
58)	m,p-Xylene	11.427	91	2915232	20.281	ppbv	97
59)	Bromoform	11.519	173	897208	10.361	ppbv	98
60)	Styrene	11.632	104	1131676	9.996	ppbv	98
61)	1,1,2,2-Tetrachloroethane	11.694	83	1126125	10.273	ppbv	96
62)	o-Xylene	11.694	91	1484346	9.620	ppbv	100
65)	Isopropylbenzene	12.011	105	2076053	9.980	ppbv	99
67)	4-Ethyltoluene	12.381	105	2173646	10.098	ppbv	99
68)	1,3,5-Trimethylbenzene	12.422	105	1856037	10.228	ppbv	97
69)	1,2,4-Trimethylbenzene	12.678	105	1897940	10.300	ppbv	99
71)	Benzyl chloride	12.770	91	1554669	11.185	ppbv	97
72)	1,3-Dichlorobenzene	12.791	146	1367974	10.587	ppbv	98
73)	1,4-Dichlorobenzene	12.832	146	1257425	10.245	ppbv	99
74)	sec-Butylbenzene	12.832	105	2598743	10.140	ppbv	96
75)	4-Isopropyltoluene	12.924	119	2532514	10.298	ppbv	98
76)	1,2-Dichlorobenzene	13.048	146	1294381	10.531	ppbv	96
77)	n-Butylbenzene	13.191	91	2130431	10.501	ppbv	99
78)	1,2,4-Trichlorobenzene	14.228	180	1007958	12.500	ppbv	93
80)	Hexachlorobutadiene	14.566	225	955180	11.760	ppbv	93
82)	1,2-Dichlorotetrafluor...	4.408	85	797933	8.978	ppbv	99
83)	Vinyl Chloride(sim)	4.522	62	398291	9.365	ppbv	99
84)	Bromomethane(sim)	4.883	94	291377	8.242	ppbv	93
85)	Trichlorofluoromethane...	5.610	101	892379	9.321	ppbv#	96
86)	1,2-Dichloroethane(sim)	8.056	62	610600	9.311	ppbv	93
87)	1,1,1-Trichloroethane(...	8.228	97	894186	10.036	ppbv#	98
88)	Benzene(sim)	8.499	78	1095334	8.945	ppbv	96
89)	Carbon Tetrachloride(sim)	8.595	117	894677	11.311	ppbv	100
90)	1,1-Dichloroethene(sim)	6.057	61	687618	9.107	ppbv	92
91)	Trichlorotrifluoroetha...	6.304	101	719286	9.428	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.754	61	630814	8.891	ppbv	93
93)	1,1-Dichloroethane(sim)	6.886	63	756360	8.923	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.410	61	649283	8.852	ppbv	98
95)	Chloroform(sim)	7.603	83	824173	9.758	ppbv	99
97)	1,2-dichloropropane(sim)	8.968	63	589539	9.175	ppbv	99
98)	Bromodichloromethane(sim)	9.087	83	843729	9.124	ppbv	98
99)	Trichloroethene(sim)	9.104	130	620481	8.807	ppbv	100
100)	1,4-Dioxane(sim)	9.110	88	217347	8.213	ppbv#	88
101)	cis-1,3-Dichloropropen...	9.586	75	703478	9.888	ppbv	99
102)	1,1,2-Trichloroethane(...	9.988	97	496055	8.575	ppbv	99
103)	Dibromochloromethane(sim)	10.401	129	1037061	9.971	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.531	107	818761	9.215	ppbv	97
105)	Tetrachloroethene(sim)	10.780	166	896968	8.691	ppbv	100
107)	Bromoform(sim)	11.515	173	1032466	10.180	ppbv	100
108)	m,p-Xylene(sim)	11.427	91	2939458	18.167	ppbv	96
109)	1,1,2,2-Tetrachloroeth...	11.699	83	1162119	8.983	ppbv	98
112)	Benzyl chloride(sim)	12.770	91	1554669	10.830	ppbv	97
113)	1,3-Dichlorobenzene(sim)	12.797	146	1559529	10.268	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.832	146	1257425	8.332	ppbv	98
115)	sec-Butylbenzene(sim)	12.838	105	2823427	8.807	ppbv	100
116)	4-Isopropyltoluene(sim)	12.924	119	2534348	8.753	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0410_16.D
Acq On : 10 Apr 2023 4:24 pm
Operator :
Client ID : ICAL 10
Lab ID : 10 ppbV ; AirT01501Z
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 11 10:02:44 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration

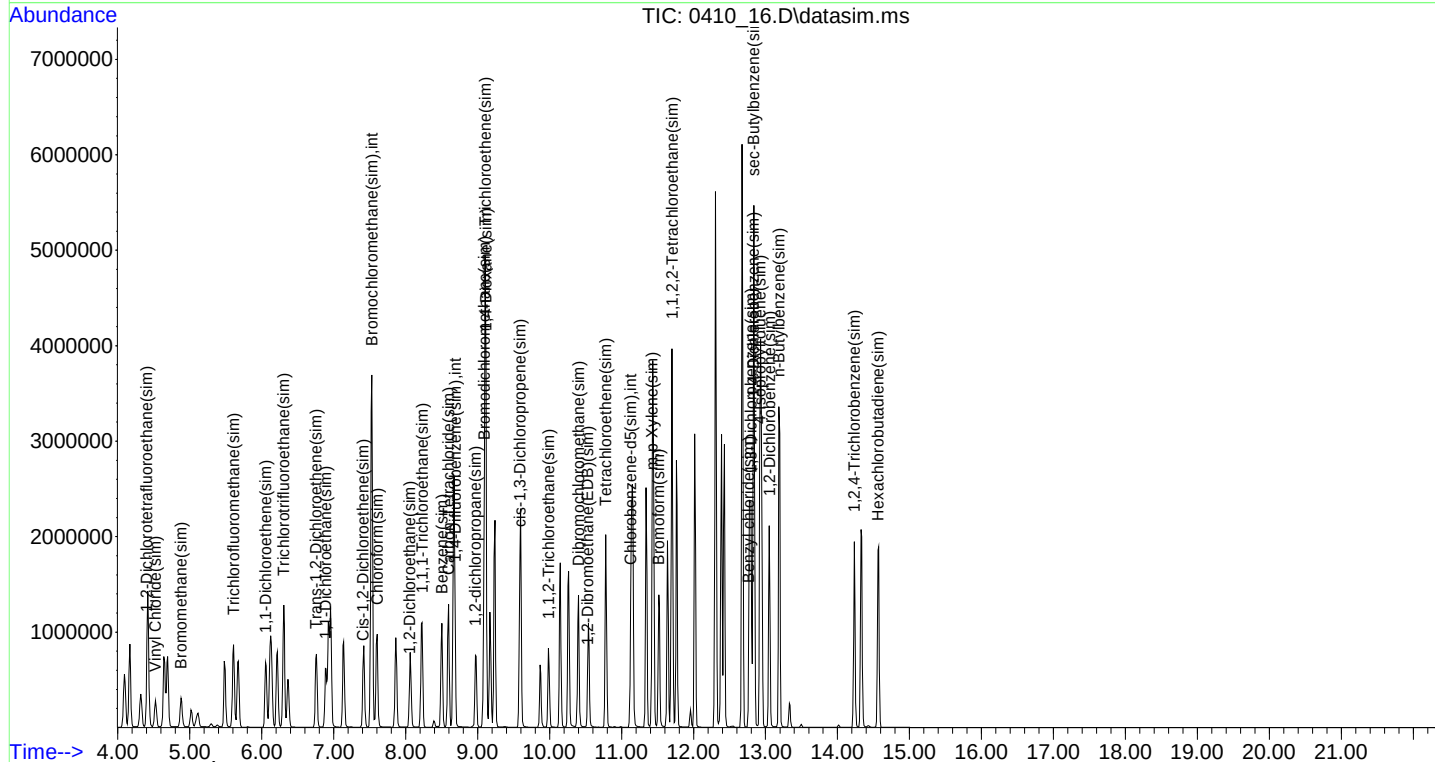
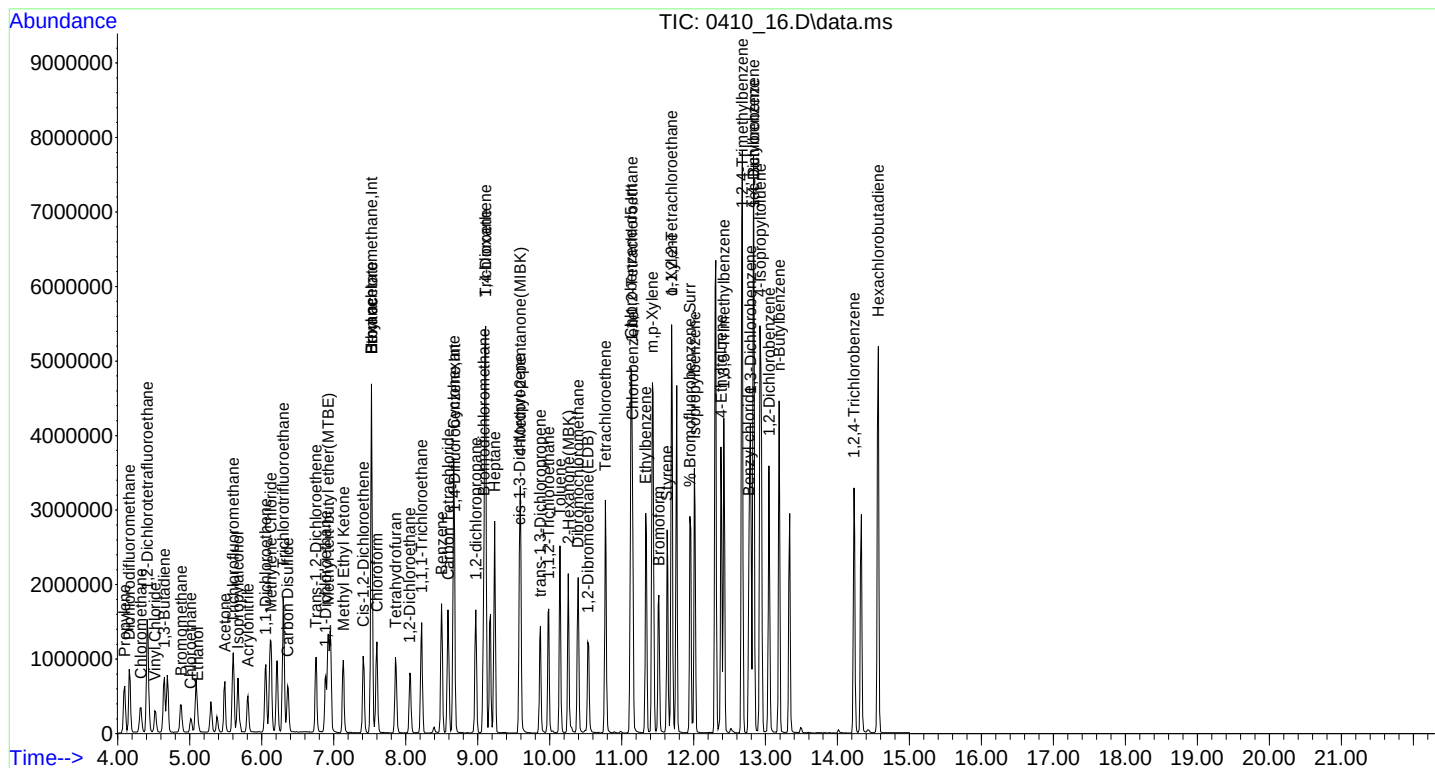
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.053	146	1435527	10.089	ppbv	99
118]	n-Butylbenzene(sim)	13.191	91	2130431	8.919	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.233	180	1150967	15.125	ppbv	99
120]	Hexachlorobutadiene(sim)	14.566	225	954942	11.384	ppbv	93

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0410_16.D
 Acq On : 10 Apr 2023 4:24 pm
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ppbV ; AirT01501Z
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 11 10:02:44 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration



6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM39
Heated Purge (Y/N): Y
GC Column: _____

Client: FPMGROUP
SDG No.: GCN84181
Calibration Date From: 04/13/23 20:33
Calibration Date Thru: 04/14/23 00:57
Method File: 39_AIR_0413.M

Laboratory File Ids

RRF1	<u>0413_05.D</u>	RRF2	<u>0413_06.D</u>	RRF3	<u>0413_07.D</u>	RRF4	<u>0413_08.D</u>	RRF5	<u>0413_09.D</u>	RRF6	<u>0413_10.D</u>
RRF7	<u>0413_11.D</u>	RRF8	<u>0413_16.D</u>	RRF9	<u>0413_12.D</u>	RRF10	<u>0413_13.D</u>	RRF11	<u>0413_17.D</u>	RRF12	<u>0413_14.D</u>
RRF13	<u>0413_15.D</u>										

COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD
Propylene						0.600	0.550	0.542	0.512	0.554	0.554	0.564	0.563	0.555	4.45
Dichlorodifluoromethane						2.238	2.102	1.987	1.953	2.127	2.139	2.127	2.082	2.094	4.29
Chloromethane						0.595	0.549	0.539	0.532	0.570	0.591	0.585	0.582	0.568	4.31
1,2-Dichlorotetrafluoroethane						2.101	2.055	1.991	1.954	2.120	2.124	2.104	2.083	2.067	3.03
Vinyl Chloride						0.730	0.718	0.694	0.688	0.740	0.753	0.757	0.758	0.730	3.81
1,3-Butadiene						0.515	0.535	0.498	0.471	0.529	0.543	0.535	0.537	0.520	4.76
Bromomethane						0.850	0.803	0.823	0.749	0.810	0.815	0.823	0.822	0.812	3.54
Chloroethane						0.469	0.386	0.346	0.324	0.352	0.358	0.355	0.354	0.368	12.00
Ethanol						0.254	0.181	0.193	0.174	0.189	0.195	0.186	0.166	0.192	13.96
Acetone						1.162	1.020	0.966	0.925	0.978	1.011	1.011	1.015	1.011	6.83
Trichlorofluoromethane						2.058	2.033	2.009	1.959	2.127	2.136	2.151	2.130	2.075	3.41
Isopropylalcohol							1.177	1.188	1.102	1.231	1.267	1.238	1.168	1.196	4.58
Acrylonitrile						0.517	0.483	0.480	0.452	0.502	0.515	0.520	0.525	0.499	5.11
1,1-Dichloroethene						1.176	1.160	1.124	1.122	1.220	1.238	1.224	1.211	1.184	3.86
Methylene Chloride						0.761	0.714	0.722	0.690	0.763	0.776	0.771	0.769	0.746	4.31
Carbon Disulfide						2.253	2.148	2.171	2.056	2.248	2.282	2.296	2.283	2.217	3.80
Trichlorotrifluoroethane						1.766	1.791	1.726	1.677	1.815	1.822	1.803	1.765	1.771	2.77
Trans-1,2-Dichloroethene						1.245	1.229	1.224	1.201	1.321	1.335	1.337	1.325	1.277	4.50
1,1-Dichloroethane						1.614	1.571	1.570	1.501	1.631	1.648	1.642	1.617	1.599	3.09
Methyl tert-butyl ether(MTBE)						2.340	2.461	2.432	2.359	2.541	2.543	2.516	2.480	2.459	3.16
Methyl Ethyl Ketone						1.385	1.417	1.489	1.468	1.688	1.781	1.836	1.770	1.604	11.41
Cis-1,2-Dichloroethene						1.202	1.191	1.173	1.140	1.245	1.265	1.257	1.250	1.215	3.74
Hexane						1.403	1.364	1.350	1.281	1.387	1.378	1.351	1.322	1.354	2.86
Chloroform						2.020	1.929	1.904	1.856	2.000	2.003	1.992	1.967	1.959	2.94

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, lfi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM39
Heated Purge (Y/N): Y
GC Column: _____

Client: FPMGROUP
SDG No.: GCN84181
Calibration Date From: 04/13/23 20:33
Calibration Date Thru: 04/14/23 00:57
Method File: 39_AIR_0413.M

Laboratory File Ids

RRF1	<u>0413_05.D</u>	RRF2	<u>0413_06.D</u>	RRF3	<u>0413_07.D</u>	RRF4	<u>0413_08.D</u>	RRF5	<u>0413_09.D</u>	RRF6	<u>0413_10.D</u>	RRF7	<u>0413_11.D</u>	RRF8	<u>0413_16.D</u>	RRF9	<u>0413_12.D</u>	RRF10	<u>0413_13.D</u>	RRF11	<u>0413_17.D</u>	RRF12	<u>0413_14.D</u>	RRF13	<u>0413_15.D</u>
COMPOUND		RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD									
Ethyl acetate							0.394	0.375	0.402	0.376	0.392	0.411	0.397	0.390	0.392	3.16									
Tetrahydrofuran							0.841	0.912	0.867	0.839	0.906	0.943	0.920	0.907	0.892	4.31									
1,2-Dichloroethane							1.048	1.037	1.014	1.009	1.093	1.117	1.127	1.111	1.069	4.47									
1,1,1-Trichloroethane							1.842	1.919	1.842	1.832	1.970	1.990	1.990	1.980	1.921	3.73									
Benzene							3.189	3.022	2.993	2.891	3.124	3.119	3.102	3.051	3.061	3.04									
Carbon Tetrachloride							2.014	2.073	1.994	1.956	2.129	2.145	2.149	2.127	2.073	3.66									
Cyclohexane							1.302	1.216	1.187	1.139	1.207	1.210	1.218	1.202	1.210	3.73									
1,2-dichloropropane							0.324	0.314	0.314	0.307	0.333	0.334	0.325	0.318	0.321	2.92									
Bromodichloromethane							0.546	0.536	0.533	0.541	0.578	0.581	0.571	0.552	0.555	3.43									
Trichloroethene							0.423	0.424	0.414	0.416	0.445	0.436	0.421	0.402	0.423	3.11									
1,4-Dioxane							0.184	0.184	0.198	0.180	0.199	0.197	0.186	0.167	0.187	5.85									
Heptane							0.439	0.419	0.410	0.401	0.427	0.427	0.411	0.399	0.417	3.37									
cis-1,3-Dichloropropene							0.464	0.459	0.467	0.462	0.495	0.496	0.486	0.473	0.475	3.15									
4-Methyl-2-pentanone(MIBK)							0.550	0.527	0.539	0.504	0.543	0.545	0.515	0.497	0.527	3.82									
trans-1,3-Dichloropropene							0.417	0.415	0.413	0.409	0.440	0.450	0.449	0.442	0.429	4.05									
1,1,2-Trichloroethane							0.361	0.371	0.352	0.344	0.377	0.376	0.369	0.360	0.364	3.17									
Toluene							1.139	1.074	1.063	1.050	1.129	1.119	1.090	1.053	1.090	3.23									
Dibromochloromethane							0.686	0.666	0.658	0.664	0.728	0.732	0.723	0.709	0.696	4.43									
2-Hexanone(MBK)							0.478	0.476	0.507	0.484	0.521	0.523	0.508	0.497	0.499	3.70									
1,2-Dibromoethane(EDB)							0.600	0.587	0.588	0.573	0.624	0.624	0.614	0.600	0.601	3.07									
Tetrachloroethene							0.617	0.604	0.590	0.584	0.639	0.632	0.625	0.606	0.612	3.18									
1,1,1,2-Tetrachloroethane							0.992	0.944	0.896	0.899	0.986	0.953	0.905	0.853	0.929	5.19									
Chlorobenzene							1.957	1.885	1.785	1.740	1.869	1.812	1.697	1.581	1.791	6.63									
Ethylbenzene						3.030	2.913	2.842	2.776	2.687	2.892	2.829	2.630	2.437	2.782	6.32									

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

(l) linear (q) quadratic (i) inverse conc weight (i2) inverse conc weight squared (f) force through zero

Compounds not using average response (l, li, lfi, li2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM39
Heated Purge (Y/N): Y
GC Column: _____

Client: FPMGROUP
SDG No.: GCN84181
Calibration Date From: 04/13/23 20:33
Calibration Date Thru: 04/14/23 00:57
Method File: 39_AIR_0413.M

Laboratory File Ids

RRF1	<u>0413_05.D</u>	RRF2	<u>0413_06.D</u>	RRF3	<u>0413_07.D</u>	RRF4	<u>0413_08.D</u>	RRF5	<u>0413_09.D</u>	RRF6	<u>0413_10.D</u>				
RRF7	<u>0413_11.D</u>	RRF8	<u>0413_16.D</u>	RRF9	<u>0413_12.D</u>	RRF10	<u>0413_13.D</u>	RRF11	<u>0413_17.D</u>	RRF12	<u>0413_14.D</u>				
RRF13	<u>0413_15.D</u>														
COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD
m,p-Xylene					2.370	2.247	2.229	1.737	2.100	2.276	2.202	2.022	1.827	2.112	10.09
Bromoform	qfi					0.189	0.465	0.916	2.292	5.048	10.190	25.410	39.680	Coef R2	1.00
Styrene						1.798	1.791	1.732	1.673	1.812	1.763	1.662	1.561	1.724	5.02
1,1,2,2-Tetrachloroethane						1.683	1.682	1.607	1.509	1.690	1.651	1.507	1.367	1.587	7.32
o-Xylene					2.350	2.349	2.296	2.192	2.125	2.294	2.210	2.032	1.869	2.191	7.31
Isopropylbenzene						3.243	3.129	3.005	2.959	3.204	3.087	2.836	2.608	3.009	6.95
4-Ethyltoluene						3.509	3.247	3.155	3.033	3.420	3.280	3.073	2.773	3.186	7.31
1,3,5-Trimethylbenzene						2.688	2.806	2.580	2.494	2.771	2.712	2.417	2.267	2.592	7.25
1,2,4-Trimethylbenzene						2.813	2.773	2.589	2.508	2.872	2.755	2.495	2.226	2.629	8.21
Benzyl chloride						2.155	2.161	2.071	1.929	2.357	2.263	2.127	2.014	2.134	6.34
1,3-Dichlorobenzene						2.116	1.953	1.915	1.782	2.173	2.063	1.979	1.803	1.973	7.11
1,4-Dichlorobenzene						2.145	2.105	1.868	1.736	2.048	2.005	1.793	1.658	1.920	9.44
sec-Butylbenzene						4.033	3.946	3.775	3.659	4.001	3.837	3.401	3.015	3.708	9.37
4-Isopropyltoluene						3.746	3.673	3.559	3.432	3.807	3.644	3.285	2.974	3.515	7.86
1,2-Dichlorobenzene						1.924	1.884	1.737	1.623	2.062	1.989	1.860	1.748	1.853	7.79
n-Butylbenzene						3.022	3.017	2.990	2.817	3.221	3.090	2.780	2.560	2.937	7.07
1,2,4-Trichlorobenzene						1.304	1.285	1.603	1.281	1.716	1.696	1.643	1.543	1.509	12.54
Hexachlorobutadiene						1.297	1.231	1.301	1.180	1.657	1.605	1.563	1.460	1.412	12.97
1,2-Dichlorotetrafluoroethane(sim)	2.488	2.292	2.194	2.147	2.255	2.245	2.162	2.110	2.086	2.257				2.224	5.18
Vinyl Chloride(sim)	0.816	0.791	0.789	0.796	0.777	0.756	0.753	0.744	0.732	0.798				0.775	3.53
Bromomethane(sim)	0.816	0.915	0.870	0.917	1.039	0.908	0.851	0.872	0.800	0.862				0.885	7.55
Trichlorofluoromethane(sim)	2.233	2.155	2.131	2.193	2.316	2.165	2.132	2.103	2.096	2.265				2.179	3.33
1,2-Dichloroethane(sim)	1.129	1.143	1.091	1.195	1.066	1.120	1.099	1.073	1.077	1.163				1.116	3.80
1,1,1-Trichloroethane(sim)	2.077	2.140	2.033	2.110	2.105	2.054	2.003	2.003	1.999	2.170				2.069	2.94

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Note: m,p-xylene TV is 2 times the TV Listed

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Compounds not using average response (l, li, lfi, li2, fi2, q, qi, qfi, qi2, qfi2) display concentrations and not response factors

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM39
Heated Purge (Y/N): Y
GC Column: _____

Client: FPMGROUP
SDG No.: GCN84181
Calibration Date From: 04/13/23 20:33
Calibration Date Thru: 04/14/23 00:57
Method File: 39_AIR_0413.M

Laboratory File Ids

RRF1	<u>0413_05.D</u>	RRF2	<u>0413_06.D</u>	RRF3	<u>0413_07.D</u>	RRF4	<u>0413_08.D</u>	RRF5	<u>0413_09.D</u>	RRF6	<u>0413_10.D</u>				
RRF7	<u>0413_11.D</u>	RRF8	<u>0413_16.D</u>	RRF9	<u>0413_12.D</u>	RRF10	<u>0413_13.D</u>	RRF11	<u>0413_17.D</u>	RRF12	<u>0413_14.D</u>				
RRF13	<u>0413_15.D</u>														
COMPOUND	RRF1 0.01	RRF2 0.02	RRF3 0.035	RRF4 0.05	RRF5 0.1	RRF6 0.2	RRF7 0.5	RRF8 1	RRF9 2.5	RRF10 5	RRF11 10	RRF12 25	RRF13 40	— RRF	% RSD
Benzene(sim)			4.257	4.163	3.937	3.407	3.203	3.168	3.085					3.603	13.92
Carbon Tetrachloride(sim)	2.133	2.083	2.059	2.095	2.119	2.058	2.054	2.030	2.025					2.073	1.80
1,1-Dichloroethene(sim)	1.245	1.286	1.270	1.374	1.397	1.256	1.229	1.190	1.198	1.299				1.274	5.36
Trichlorotrifluoroethane(sim)	2.019	1.845	1.807	1.847	2.119	1.833	1.807	1.793	1.770	1.909				1.875	5.95
Trans-1,2-Dichloroethene(sim)	1.364	1.359	1.256	1.395	1.412	1.330	1.302	1.296	1.282	1.406				1.340	4.11
1,1-Dichloroethane(sim)	1.738	1.658	1.661	1.718	1.724	1.685	1.654	1.649	1.633	1.768				1.689	2.68
Cis-1,2-Dichloroethene(sim)	1.205	1.290	1.323	1.315	1.353	1.284	1.262	1.242	1.217	1.325				1.282	3.84
Chloroform(sim)		2.798	2.365	2.365	2.246	2.084	2.023	1.994	1.970	2.127				2.219	11.88
1,2-dichloropropane(sim)	0.369	0.327	0.321	0.329	0.340	0.316	0.313	0.314	0.309	0.335				0.327	5.39
Bromodichloromethane(sim)	0.591	0.570	0.610	0.558	0.645	0.552	0.541	0.534	0.541	0.579				0.572	6.16
Trichloroethene(sim)	0.453	0.433	0.411	0.416	0.420	0.404	0.405	0.401	0.398	0.427				0.417	4.10
1,4-Dioxane(sim)					0.203	0.184	0.184	0.198	0.180	0.199				0.192	4.98
cis-1,3-Dichloropropene(sim)	0.513	0.472	0.475	0.465	0.479	0.464	0.470	0.470	0.467					0.475	3.14
1,1,2-Trichloroethane(sim)	0.326	0.409	0.369	0.397	0.383	0.361	0.371	0.352	0.345	0.377				0.369	6.65
Dibromochloromethane(sim)	0.681	0.661	0.646	0.646	0.640	0.629	0.627	0.625	0.627					0.642	2.89
1,2-Dibromoethane(EDB)(sim)	0.595	0.607	0.603	0.700	0.619	0.597	0.590	0.584	0.573	0.624				0.609	5.82
Tetrachloroethene(sim)	0.715	0.672	0.682	0.675	0.597	0.569	0.565	0.551	0.550	0.599	0.592			0.615	9.67
Bromoform(sim)	1.738	1.528	1.470	1.495	1.478	1.418	1.398	1.360	1.365					1.472	7.84
m,p-Xylene(sim)					2.391	2.257	2.237	2.175	2.108	2.279				2.241	4.29
1,1,2,2-Tetrachloroethane(sim)	2.028	1.885	1.717	1.778	1.676	1.662	1.635	1.576	1.497	1.665				1.712	8.94
Benzyl chloride(sim)	2.918	2.550	2.315	2.284	2.167	2.155	2.161	2.064	1.929					2.282	12.90
1,3-Dichlorobenzene(sim)	2.804	2.308	2.140	2.115	2.057	2.027	2.048	1.968	1.851	2.258				2.158	12.18
1,4-Dichlorobenzene(sim)	qfi		0.062	0.072	0.112	0.193	0.490	0.907	2.562					Coef R2	1.00
sec-Butylbenzene(sim)		3.320	3.119	3.060	2.974	2.889	2.864	2.685	2.593	2.981				2.943	7.48

(#) The maximum %RSD was not met for this compound

Note: m,p-xylene TV is 2 times the TV Listed

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6B
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Lab Name: Phoenix Environmental Labs
 Lab Code: Phoenix
 Instrument ID: CHEM39
 Heated Purge (Y/N): Y
 GC Column: _____

Client: FPMGROUP
 SDG No.: GCN84181
 Calibration Date From: 04/13/23 20:33
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 Method File: 39_AIR_0413.M

Laboratory File Ids

RRF1	<u>0413_05.D</u>	RRF2	<u>0413_06.D</u>	RRF3	<u>0413_07.D</u>	RRF4	<u>0413_08.D</u>	RRF5	<u>0413_09.D</u>	RRF6	<u>0413_10.D</u>	RRF7	<u>0413_11.D</u>	RRF8	<u>0413_12.D</u>	RRF9	<u>0413_13.D</u>	RRF10	<u>0413_14.D</u>	RRF11	<u>0413_15.D</u>	RRF12	<u>0413_16.D</u>	RRF13	<u>0413_17.D</u>	RRF14	<u>0413_18.D</u>	RRF15	<u>0413_19.D</u>	RRF16	<u>0413_20.D</u>	RRF17	<u>0413_21.D</u>	RRF18	<u>0413_22.D</u>	RRF19	<u>0413_23.D</u>	RRF20	<u>0413_24.D</u>	RRF21	<u>0413_25.D</u>	RRF22	<u>0413_26.D</u>	RRF23	<u>0413_27.D</u>	RRF24	<u>0413_28.D</u>	RRF25	<u>0413_29.D</u>	RRF26	<u>0413_30.D</u>	RRF27	<u>0413_31.D</u>	RRF28	<u>0413_32.D</u>	RRF29	<u>0413_33.D</u>	RRF30	<u>0413_34.D</u>	RRF31	<u>0413_35.D</u>	RRF32	<u>0413_36.D</u>	RRF33	<u>0413_37.D</u>	RRF34	<u>0413_38.D</u>	RRF35	<u>0413_39.D</u>	RRF36	<u>0413_40.D</u>	RRF37	<u>0413_41.D</u>	RRF38	<u>0413_42.D</u>	RRF39	<u>0413_43.D</u>	RRF40	<u>0413_44.D</u>	RRF41	<u>0413_45.D</u>	RRF42	<u>0413_46.D</u>	RRF43	<u>0413_47.D</u>	RRF44	<u>0413_48.D</u>	RRF45	<u>0413_49.D</u>	RRF46	<u>0413_50.D</u>	RRF47	<u>0413_51.D</u>	RRF48	<u>0413_52.D</u>	RRF49	<u>0413_53.D</u>	RRF50	<u>0413_54.D</u>	RRF51	<u>0413_55.D</u>	RRF52	<u>0413_56.D</u>	RRF53	<u>0413_57.D</u>	RRF54	<u>0413_58.D</u>	RRF55	<u>0413_59.D</u>	RRF56	<u>0413_60.D</u>	RRF57	<u>0413_61.D</u>	RRF58	<u>0413_62.D</u>	RRF59	<u>0413_63.D</u>	RRF60	<u>0413_64.D</u>	RRF61	<u>0413_65.D</u>	RRF62	<u>0413_66.D</u>	RRF63	<u>0413_67.D</u>	RRF64	<u>0413_68.D</u>	RRF65	<u>0413_69.D</u>	RRF66	<u>0413_70.D</u>	RRF67	<u>0413_71.D</u>	RRF68	<u>0413_72.D</u>	RRF69	<u>0413_73.D</u>	RRF70	<u>0413_74.D</u>	RRF71	<u>0413_75.D</u>	RRF72	<u>0413_76.D</u>	RRF73	<u>0413_77.D</u>	RRF74	<u>0413_78.D</u>	RRF75	<u>0413_79.D</u>	RRF76	<u>0413_80.D</u>	RRF77	<u>0413_81.D</u>	RRF78	<u>0413_82.D</u>	RRF79	<u>0413_83.D</u>	RRF80	<u>0413_84.D</u>	RRF81	<u>0413_85.D</u>	RRF82	<u>0413_86.D</u>	RRF83	<u>0413_87.D</u>	RRF84	<u>0413_88.D</u>	RRF85	<u>0413_89.D</u>	RRF86	<u>0413_90.D</u>	RRF87	<u>0413_91.D</u>	RRF88	<u>0413_92.D</u>	RRF89	<u>0413_93.D</u>	RRF90	<u>0413_94.D</u>	RRF91	<u>0413_95.D</u>	RRF92	<u>0413_96.D</u>	RRF93	<u>0413_97.D</u>	RRF94	<u>0413_98.D</u>	RRF95	<u>0413_99.D</u>	RRF96	<u>0413_100.D</u>	RRF97	<u>0413_101.D</u>	RRF98	<u>0413_102.D</u>	RRF99	<u>0413_103.D</u>	RRF100	<u>0413_104.D</u>	RRF101	<u>0413_105.D</u>	RRF102	<u>0413_106.D</u>	RRF103	<u>0413_107.D</u>	RRF104	<u>0413_108.D</u>	RRF105	<u>0413_109.D</u>	RRF106	<u>0413_110.D</u>	RRF107	<u>0413_111.D</u>	RRF108	<u>0413_112.D</u>	RRF109	<u>0413_113.D</u>	RRF110	<u>0413_114.D</u>	RRF111	<u>0413_115.D</u>	RRF112	<u>0413_116.D</u>	RRF113	<u>0413_117.D</u>	RRF114	<u>0413_118.D</u>	RRF115	<u>0413_119.D</u>	RRF116	<u>0413_120.D</u>	RRF117	<u>0413_121.D</u>	RRF118	<u>0413_122.D</u>	RRF119	<u>0413_123.D</u>	RRF120	<u>0413_124.D</u>	RRF121	<u>0413_125.D</u>	RRF122	<u>0413_126.D</u>	RRF123	<u>0413_127.D</u>	RRF124	<u>0413_128.D</u>	RRF125	<u>0413_129.D</u>	RRF126	<u>0413_130.D</u>	RRF127	<u>0413_131.D</u>	RRF128	<u>0413_132.D</u>	RRF129	<u>0413_133.D</u>	RRF130	<u>0413_134.D</u>	RRF131	<u>0413_135.D</u>	RRF132	<u>0413_136.D</u>	RRF133	<u>0413_137.D</u>	RRF134	<u>0413_138.D</u>	RRF135	<u>0413_139.D</u>	RRF136	<u>0413_140.D</u>	RRF137	<u>0413_141.D</u>	RRF138	<u>0413_142.D</u>	RRF139	<u>0413_143.D</u>	RRF140	<u>0413_144.D</u>	RRF141	<u>0413_145.D</u>	RRF142	<u>0413_146.D</u>	RRF143	<u>0413_147.D</u>	RRF144	<u>0413_148.D</u>	RRF145	<u>0413_149.D</u>	RRF146	<u>0413_150.D</u>	RRF147	<u>0413_151.D</u>	RRF148	<u>0413_152.D</u>	RRF149	<u>0413_153.D</u>	RRF150	<u>0413_154.D</u>	RRF151	<u>0413_155.D</u>	RRF152	<u>0413_156.D</u>	RRF153	<u>0413_157.D</u>	RRF154	<u>0413_158.D</u>	RRF155	<u>0413_159.D</u>	RRF156	<u>0413_160.D</u>	RRF157	<u>0413_161.D</u>	RRF158	<u>0413_162.D</u>	RRF159	<u>0413_163.D</u>	RRF160	<u>0413_164.D</u>	RRF161	<u>0413_165.D</u>	RRF162	<u>0413_166.D</u>	RRF163	<u>0413_167.D</u>	RRF164	<u>0413_168.D</u>	RRF165	<u>0413_169.D</u>	RRF166	<u>0413_170.D</u>	RRF167	<u>0413_171.D</u>	RRF168	<u>0413_172.D</u>	RRF169	<u>0413_173.D</u>	RRF170	<u>0413_174.D</u>	RRF171	<u>0413_175.D</u>	RRF172	<u>0413_176.D</u>	RRF173	<u>0413_177.D</u>	RRF174	<u>0413_178.D</u>	RRF175	<u>0413_179.D</u>	RRF176	<u>0413_180.D</u>	RRF177	<u>0413_181.D</u>	RRF178	<u>0413_182.D</u>	RRF179	<u>0413_183.D</u>	RRF180	<u>0413_184.D</u>	RRF181	<u>0413_185.D</u>	RRF182	<u>0413_186.D</u>	RRF183	<u>0413_187.D</u>	RRF184	<u>0413_188.D</u>	RRF185	<u>0413_189.D</u>	RRF186	<u>0413_190.D</u>	RRF187	<u>0413_191.D</u>	RRF188	<u>0413_192.D</u>	RRF189	<u>0413_193.D</u>	RRF190	<u>0413_194.D</u>	RRF191	<u>0413_195.D</u>	RRF192	<u>0413_196.D</u>	RRF193	<u>0413_197.D</u>	RRF194	<u>0413_198.D</u>	RRF195	<u>0413_199.D</u>	RRF196	<u>0413_200.D</u>	RRF197	<u>0413_201.D</u>	RRF198	<u>0413_202.D</u>	RRF199	<u>0413_203.D</u>	RRF200	<u>0413_204.D</u>	RRF201	<u>0413_205.D</u>	RRF202	<u>0413_206.D</u>	RRF203	<u>0413_207.D</u>	RRF204	<u>0413_208.D</u>	RRF205	<u>0413_209.D</u>	RRF206	<u>0413_210.D</u>	RRF207	<u>0413_211.D</u>	RRF208	<u>0413_212.D</u>	RRF209	<u>0413_213.D</u>	RRF210	<u>0413_214.D</u>	RRF211	<u>0413_215.D</u>	RRF212	<u>0413_216.D</u>	RRF213	<u>0413_217.D</u>	RRF214	<u>0413_218.D</u>	RRF215	<u>0413_219.D</u>	RRF216	<u>0413_220.D</u>	RRF217	<u>0413_221.D</u>	RRF218	<u>0413_222.D</u>	RRF219	<u>0413_223.D</u>	RRF220	<u>0413_224.D</u>	RRF221	<u>0413_225.D</u>	RRF222	<u>0413_226.D</u>	RRF223	<u>0413_227.D</u>	RRF224	<u>0413_228.D</u>	RRF225	<u>0413_229.D</u>	RRF226	<u>0413_230.D</u>	RRF227	<u>0413_231.D</u>	RRF228	<u>0413_232.D</u>	RRF229	<u>0413_233.D</u>	RRF230	<u>0413_234.D</u>	RRF231	<u>0413_235.D</u>	RRF232	<u>0413_236.D</u>	RRF233	<u>0413_237.D</u>	RRF234	<u>0413_238.D</u>	RRF235	<u>0413_239.D</u>	RRF236	<u>0413_240.D</u>	RRF237	<u>0413_241.D</u>	RRF238	<u>0413_242.D</u>	RRF239	<u>0413_243.D</u>	RRF240	<u>0413_244.D</u>	RRF241	<u>0413_245.D</u>	RRF242	<u>0413_246.D</u>	RRF243	<u>0413_247.D</u>	RRF244	<u>0413_248.D</u>	RRF245	<u>0413_249.D</u>	RRF246	<u>0413_250.D</u>	RRF247	<u>0413_251.D</u>	RRF248	<u>0413_252.D</u>	RRF249	<u>0413_253.D</u>	RRF250	<u>0413_254.D</u>	RRF251	<u>0413_255.D</u>	RRF252	<u>0413_256.D</u>	RRF253	<u>0413_257.D</u>	RRF254	<u>0413_258.D</u>	RRF255	<u>0413_259.D</u>	RRF256	<u>0413_260.D</u>	RRF257	<u>0413_261.D</u>	RRF258	<u>0413_262.D</u>	RRF259	<u>0413_263.D</u>	RRF260	<u>0413_264.D</u>	RRF261	<u>0413_265.D</u>	RRF262	<u>0413_266.D</u>	RRF263	<u>0413_267.D</u>	RRF264	<u>0413_268.D</u>	RRF265	<u>0413_269.D</u>	RRF266	<u>0413_270.D</u>	RRF267	<u>0413_271.D</u>	RRF268	<u>0413_272.D</u>	RRF269	<u>0413_273.D</u>	RRF270	<u>0413_274.D</u>	RRF271	<u>0413_275.D</u>	RRF272	<u>0413_276.D</u>	RRF273	<u>0413_277.D</u>	RRF274	<u>0413_278.D</u>	RRF275	<u>0413_279.D</u>	RRF276	<u>0413_280.D</u>	RRF277	<u>0413_281.D</u>	RRF278	<u>0413_282.D</u>	RRF279	<u>0413_283.D</u>	RRF280	<u>0413_284.D</u>	RRF281	<u>0413_285.D</u>	RRF282	<u>0413_286.D</u>	RRF283	<u>0413_287.D</u>	RRF284	<u>0413_288.D</u>	RRF285	<u>0413_289.D</u>	RRF286	<u>0413_290.D</u>	RRF287	<u>0413_291.D</u>	RRF288	<u>0413_292.D</u>	RRF289	<u>0413_293.D</u>	RRF290	<u>0413_294.D</u>	RRF291	<u>0413_295.D</u>	RRF292	<u>0413_296.D</u>	RRF293	<u>0413_297.D</u>	RRF294	<u>0413_298.D</u>	RRF295	<u>0413_299.D</u>	RRF296	<u>0413_300.D</u>	RRF297	<u>0413_301.D</u>	RRF298	<u>0413_302.D</u>	RRF299	<u>0413_303.D</u>	RRF300	<u>0413_304.D</u>	RRF301	<u>0413_305.D</u>	RRF302	<u>0413_306.D</u>	RRF303	<u>0413_307.D</u>	RRF304	<u>0413_308.D</u>	RRF305	<u>0413_309.D</u>	RRF306	<u>0413_310.D</u>	RRF307	<u>0413_311.D</u>	RRF308	<u>0413_312.D</u>	RRF309	<u>0413_313.D</u>	RRF310	<u>0413_314.D</u>	RRF311	<u>0413_315.D</u>	RRF312	<u>0413_316.D</u>	RRF313	<u>0413_317.D</u>	RRF314	<u>0413_318.D</u>	RRF315	<u>0413_319.D</u>	RRF316	<u>0413_320.D</u>	RRF317	<u>0413_321.D</u>	RRF318	<u>0413_322.D</u>	RRF319	<u>0413_323.D</u>	RRF320	<u>0413_324.D</u>	RRF321	<u>0413_325.D</u>	RRF322	<u>0413_326.D</u>	RRF323	<u>0413_327.D</u>	RRF324	<u>0413_328.D</u>	RRF325	<u>0413_329.D</u>	RRF326	<u>0413_330.D</u>	RRF327	<u>0413_331.D</u>	RRF328	<u>0413_332.D</u>	RRF329	<u>0413_333.D</u>	RRF330	<u>0413_334.D</u>	RRF331	<u>0413_335.D</u>	RRF332	<u>0413_336.D</u>	RRF333	<u>0413_337.D</u>	RRF334	<u>0413_338.D</u>	RRF335	<u>0413_339.D</u>	RRF336	<u>0413_340.D</u>	RRF337	<u>0413_341.D</u>	RRF338	<u>0413_342.D</u>	RRF339	<u>0413_343.D</u>	RRF340	<u>0413_344.D</u>	RRF341	<u>0413_345.D</u>	RRF342	<u>0413_346.D</u>	RRF343	<u>0413_347.D</u>	RRF344	<u>0413_348.D</u>	RRF345	<u>0413_349.D</u>	RRF346	<u>0413_350.D</u>	RRF347	<u>0413_351.D</u>	RRF348	<u>0413_352.D</u>	RRF349	<u>0413_353.D</u>	RRF350	<u>0413_354.D</u>	RRF351	<u>0413_355.D</u>	RRF352	<u>0413_356.D</u>	RRF353	<u>0413_357.D</u>	RRF354	<u>0413_358.D</u>	RRF355	<u>0413_359.D</u>	RRF356	<u>0413_360.D</u>	RRF357	<u>0413_361.D</u>	RRF358	<u>0413_362.D</u>	RRF359	<u>0413_363.D</u>	RRF360	<u>0413_364.D</u>	RRF361	<u>0413_365.D</u>	RRF362	<u>0413_366.D</u>	RRF363	<u>0413_367.D</u>	RRF364	<u>0413_368.D</u>	RRF365	<u>0413_369.D</u>	RRF366	<u>0413_370.D</u>	RRF367	<u>0413_371.D</u>	RRF368	<u>0413_372.D</u>	RRF369	<u>0413_373.D</u>	RRF370	<u>0413_374.D</u>	RRF371	<u>0413_375.D</u>	RRF372	<u>0413_376.D</u>	RRF373	<u>0413_377.D</u>	RRF374	<u>0413_378.D</u>	RRF375	<u>0413_379.D</u>	RRF376	<u>0413_380.D</u>	RRF377	<u>0413_381.D</u>	RRF378	<u>0413_382.D</u>	RRF379	<u>0413_383.D</u>	RRF380	<u>0413_384.D</u>	RRF381	<u>0413_385.D</u>	RRF382	<u>0413_386.D</u>	RRF383	<u>0413_387.D</u>	RRF384	<u>0413_388.D</u>	RRF385	<u>0413_389.D</u>	RRF386	<u>0413_390.D</u>	RRF387	<u>0413_391.D</u>	RRF388	<u>0413_392.D</u>	RRF389	<u>0413_393.D</u>	RRF39

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_05.D
 Acq On : 13 Apr 2023 5:29 pm
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 ; to1503p
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 11:16:22 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.513	130	399349	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.678	114	1465468	10.000	ng	0.00
54) Chlorobenzene-d5	11.147	82	695774	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	377486	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.678	114	1464758	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.147	82	695774	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.982 95 1005811 10.572 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 105.70%

Target Compounds					Qvalue
2) Propylene	4.032	41	196	0.009	ppbv# 1
3) Dichlorodifluoromethane	4.081	85	2761	0.033	ppbv# 87
4) Chloromethane	4.251	50	703	0.031	ppbv 76
5) 1,2-Dichlorotetrafluor...	4.341	85	2245	0.027	ppbv# 75
6) Vinyl Chloride	4.446	62	591	0.020	ppbv# 58
7) 1,3-Butadiene	4.552	54	842	0.041	ppbv# 47
8) Bromomethane	4.811	94	769	0.024	ppbv# 77
9) Chloroethane	4.949	64	962	0.065	ppbv# 1
11) Ethanol	5.030	45	81	0.011	ppbv# 1
12) Acetone	5.418	43	438	0.011	ppbv# 39
13) Trichlorofluoromethane	5.547	101	1139	0.014	ppbv# 56
14) Isopropylalcohol	5.590	45	293	0.006	ppbv# 1
15) Acrylonitrile	5.780	53	462	0.023	ppbv# 47
16) 1,1-Dichloroethene	6.007	61	775	0.016	ppbv# 59
17) Methylene Chloride	6.096	49	683	0.023	ppbv# 77
20) Carbon Disulfide	6.323	76	1470	0.017	ppbv# 88
21) Trichlorotrifluoroethane	6.263	101	1178	0.017	ppbv# 75
22) Trans-1,2-Dichloroethene	6.733	61	651	0.013	ppbv# 43
23) 1,1-Dichloroethane	6.864	63	998	0.016	ppbv 72
24) Methyl tert-butyl ethe...	6.882	73	635	0.006	ppbv# 1
26) Methyl Ethyl Ketone	7.116	43	598	0.009	ppbv# 88
27) Cis-1,2-Dichloroethene	7.394	61	592	0.012	ppbv# 81
28) Hexane	7.521	57	622	0.011	ppbv# 55
29) Chloroform	7.576	83	2288	0.029	ppbv# 60
30) Ethyl acetate	7.545	61	90	0.006	ppbv# 48
31) Tetrahydrofuran	7.862	42	1524	0.043	ppbv# 81
32) 1,2-Dichloroethane	8.052	62	486	0.011	ppbv# 1
33) 1,1,1-Trichloroethane	8.219	97	872	0.011	ppbv# 64
34) Benzene	8.496	78	3519	0.029	ppbv# 87
35) Carbon Tetrachloride	8.591	117	1160	0.014	ppbv 94
36) Cyclohexane	8.678	84	1900	0.039	ppbv# 1
38) 1,2-dichloropropane	8.981	63	1132	0.024	ppbv 92
39) Bromodichloromethane	9.093	83	1435	0.018	ppbv# 65
40) Trichloroethene	9.110	130	851	0.014	ppbv# 76
42) 1,4-Dioxane	9.128	88	78	0.003	ppbv# 3
44) Heptane	9.258	43	1243	0.020	ppbv# 85
45) cis-1,3-Dichloropropene	9.610	75	1123	0.016	ppbv# 45
46) 4-Methyl-2-pentanone(M...	9.645	43	539	0.007	ppbv# 1
47) trans-1,3-Dichloropropene	9.892	75	832	0.013	ppbv# 1
48) 1,1,2-Trichloroethane	10.011	97	1068	0.020	ppbv# 1
49) Toluene	10.166	91	2746	0.017	ppbv# 58
50) Dibromochloromethane	10.420	129	1222	0.012	ppbv# 11

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_05.D
 Acq On : 13 Apr 2023 5:29 pm
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 ; to1503p
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 11:16:22 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.286	43	696	0.010	ppbv#	35
52)	1,2-Dibromoethane(EDB)	10.645	107	408	0.005	ppbv	98
53)	Tetrachloroethene	10.800	166	1362	0.015	ppbv#	50
55)	1,1,1,2-Tetrachloroethane	11.170	131	1256	0.019	ppbv#	75
56)	Chlorobenzene	11.170	112	2713	0.022	ppbv#	1
57)	Ethylbenzene	11.367	91	3381	0.017	ppbv#	39
58)	m,p-Xylene	11.466	91	4418	0.030	ppbv#	72
59)	Bromoform	11.542	173	1577	0.013	ppbv	90
60)	Styrene	11.671	104	2747	0.023	ppbv#	90
61)	1,1,2,2-Tetrachloroethane	11.724	83	2162	0.020	ppbv#	84
62)	o-Xylene	11.731	91	3106	0.020	ppbv#	89
65)	Isopropylbenzene	12.050	105	3465	0.017	ppbv#	76
67)	4-Ethyltoluene	12.422	105	3168	0.014	ppbv#	84
68)	1,3,5-Trimethylbenzene	12.452	105	2816	0.016	ppbv#	80
69)	1,2,4-Trimethylbenzene	12.710	105	2521	0.014	ppbv#	64
71)	Benzyl chloride	12.809	91	2525	0.017	ppbv#	71
72)	1,3-Dichlorobenzene	12.832	146	2154	0.016	ppbv#	76
73)	1,4-Dichlorobenzene	12.870	146	6054	0.045	ppbv	90
74)	sec-Butylbenzene	12.870	105	3985	0.015	ppbv#	84
75)	4-Isopropyltoluene	12.953	119	5079	0.021	ppbv	96
76)	1,2-Dichlorobenzene	13.083	146	2135	0.017	ppbv#	67
77)	n-Butylbenzene	13.136	91	662	0.003	ppbv	95
78)	1,2,4-Trichlorobenzene	14.282	180	3372	0.032	ppbv	97
80)	Hexachlorobutadiene	14.632	225	2616	0.027	ppbv	91
82)	1,2-Dichlorotetrafluor...	4.335	85	939m	0.011	ppbv	75
83)	Vinyl Chloride(sim)	4.449	62	308	0.011	ppbv#	72
84)	Bromomethane(sim)	4.814	94	308m	0.009	ppbv	77
85)	Trichlorofluoromethane...	5.550	101	843	0.010	ppbv#	88
86)	1,2-Dichloroethane(sim)	8.055	62	426m	0.010	ppbv	1
87)	1,1,1-Trichloroethane(...	8.222	97	784m	0.010	ppbv	93
88)	Benzene(sim)	8.499	78	2362m	0.017	ppbv	88
89)	Carbon Tetrachloride(sim)	8.594	117	805	0.010	ppbv	94
90)	1,1-Dichloroethene(sim)	6.010	61	470m	0.010	ppbv	59
91)	Trichlorotrifluoroetha...	6.266	101	762	0.011	ppbv#	92
92)	Trans-1,2-Dichloroethe...	6.730	61	515m	0.010	ppbv	43
93)	1,1-Dichloroethane(sim)	6.861	63	656	0.010	ppbv#	74
94)	Cis-1,2-Dichloroethene...	7.397	61	455m	0.009	ppbv	86
95)	Chloroform(sim)	7.587	83	1361	0.016	ppbv#	85
97)	1,2-dichloropropane(sim)	8.984	63	540	0.011	ppbv#	63
98)	Bromodichloromethane(sim)	9.087	83	866m	0.010	ppbv	43
99)	Trichloroethene(sim)	9.113	130	664	0.011	ppbv	97
100)	1,4-Dioxane(sim)	9.157	88	303m	0.011	ppbv	3
101)	cis-1,3-Dichloropropen...	9.599	75	751	0.011	ppbv#	85
102)	1,1,2-Trichloroethane(...	10.000	97	478m	0.009	ppbv	1
103)	Dibromochloromethane(sim)	10.416	129	997	0.011	ppbv#	54
104)	1,2-Dibromoethane(EDB)...	10.563	107	871m	0.010	ppbv	98
105)	Tetrachloroethene(sim)	10.803	166	1047	0.012	ppbv	94
107)	Bromoform(sim)	11.545	173	1209	0.012	ppbv	97
108)	m,p-Xylene(sim)	11.461	91	3891m	0.025	ppbv	79
109)	1,1,2,2-Tetrachloroeth...	11.727	83	1411m	0.012	ppbv	96
112)	Benzyl chloride(sim)	12.812	91	2030m	0.013	ppbv	71
113)	1,3-Dichlorobenzene(sim)	12.827	146	1951	0.013	ppbv	96
115)	sec-Butylbenzene(sim)	12.706	105	2723	0.013	ppbv	96
116)	4-Isopropyltoluene(sim)	12.956	119	3657m	0.014	ppbv	94
117)	1,2-Dichlorobenzene(sim)	13.085	146	2105	0.015	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
Data File : 0413_05.D
Acq On : 13 Apr 2023 5:29 pm
Operator :
Client ID : ICAL 0.01
Lab ID : 0.01 ; to1503p
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 11:16:22 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:12:38 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.230	91	3013m	0.014	ppbv	73
119]	1,2,4-Trichlorobenzene...	14.278	180	3071	0.030	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

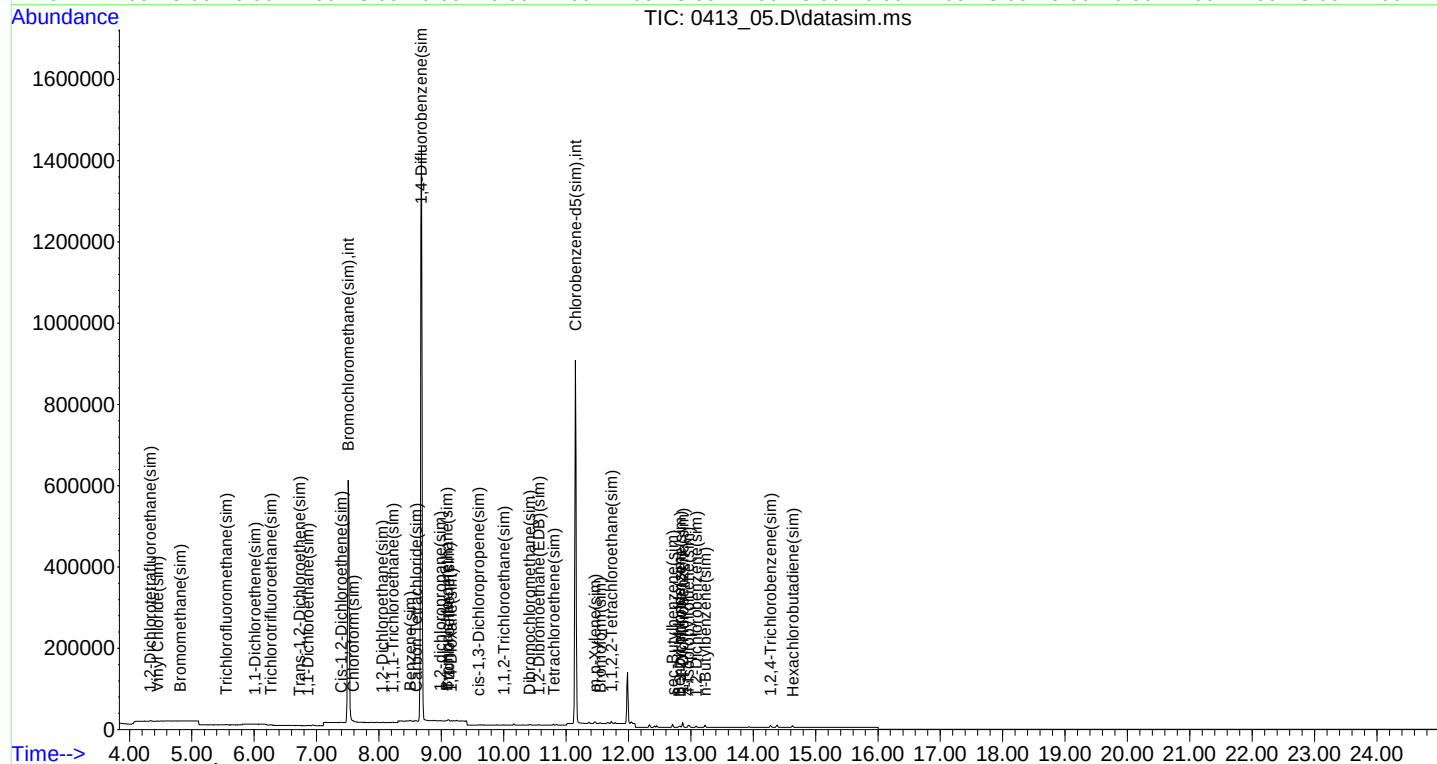
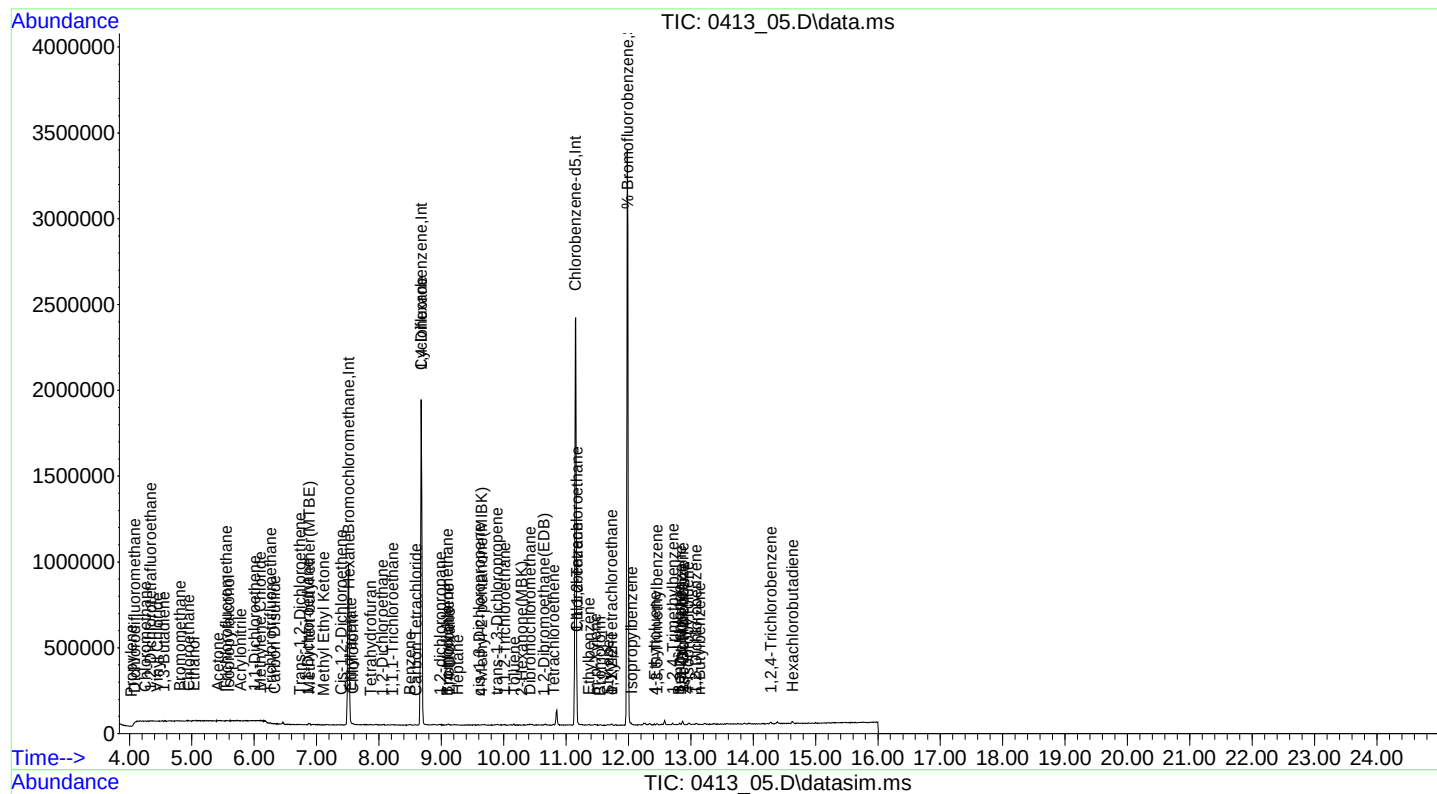
Quantitation Report (RF) (QT Reviewed)

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Data Path   : H:\AIR2023\CHEM39\04APR\13\
Data File   : 0413_05.D
Acq On      : 13 Apr 2023   5:29 pm
Operator    :
Client ID    : ICAL 0.01
Lab ID      : 0.01 ; to1503p
ALS Vial    : 2   Sample Multiplier: 1

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Quant Time: Apr 14 11:16:22 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Fri Apr 14 11:12:38 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_06.D
 Acq On : 13 Apr 2023 6:06 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ; to1503p
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 11:17:38 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.513	130	401655	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.678	114	1476114	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	701798	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	380685	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.678	114	1476114	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	701798	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.982 95 1011335 10.539 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 105.40%

Target Compounds					Qvalue
2) Propylene	4.016	41	614	0.028	ppbv# 32
3) Dichlorodifluoromethane	4.089	85	3443	0.041	ppbv# 89
4) Chloromethane	4.235	50	1096	0.048	ppbv 84
5) 1,2-Dichlorotetrafluor...	4.341	85	3716	0.045	ppbv# 78
6) Vinyl Chloride	4.462	62	1306	0.045	ppbv# 28
7) 1,3-Butadiene	4.584	54	1590	0.076	ppbv# 64
8) Bromomethane	4.819	94	672	0.021	ppbv# 1
9) Chloroethane	4.941	64	735	0.050	ppbv# 63
11) Ethanol	5.047	45	878	0.114	ppbv# 5
12) Acetone	5.387	43	405	0.010	ppbv# 73
13) Trichlorofluoromethane	5.553	101	2229	0.027	ppbv# 93
14) Isopropylalcohol	5.627	45	2538	0.053	ppbv# 76
15) Acrylonitrile	5.762	53	498	0.025	ppbv# 81
16) 1,1-Dichloroethene	6.007	61	1453	0.031	ppbv# 75
17) Methylene Chloride	6.096	49	919	0.031	ppbv# 1
20) Carbon Disulfide	6.323	76	2798	0.031	ppbv 100
21) Trichlorotrifluoroethane	6.275	101	1651	0.023	ppbv# 61
22) Trans-1,2-Dichloroethene	6.728	61	1202	0.023	ppbv# 67
23) 1,1-Dichloroethane	6.865	63	1817	0.028	ppbv 82
24) Methyl tert-butyl ethe...	6.924	73	2565	0.026	ppbv# 78
26) Methyl Ethyl Ketone	7.132	43	2758	0.043	ppbv 92
27) Cis-1,2-Dichloroethene	7.402	61	1060	0.022	ppbv# 38
28) Hexane	7.513	57	2029	0.037	ppbv# 59
29) Chloroform	7.584	83	2410	0.031	ppbv 90
30) Ethyl acetate	7.529	61	277	0.018	ppbv# 1
31) Tetrahydrofuran	7.854	42	188	0.005	ppbv# 1
32) 1,2-Dichloroethane	8.052	62	1051	0.024	ppbv 93
33) 1,1,1-Trichloroethane	8.219	97	2725	0.035	ppbv# 79
34) Benzene	8.496	78	4500	0.037	ppbv# 90
35) Carbon Tetrachloride	8.591	117	2481	0.030	ppbv# 79
36) Cyclohexane	8.678	84	2336	0.048	ppbv# 1
38) 1,2-dichloropropane	8.981	63	1789	0.038	ppbv# 43
39) Bromodichloromethane	9.093	83	2085	0.025	ppbv# 1
40) Trichloroethene	9.111	130	1422	0.023	ppbv# 86
42) 1,4-Dioxane	9.162	88	762	0.028	ppbv# 2
44) Heptane	9.240	43	2219	0.036	ppbv# 82
45) cis-1,3-Dichloropropene	9.603	75	1586	0.023	ppbv# 58
46) 4-Methyl-2-pentanone(M...	9.582	43	649	0.008	ppbv# 3
47) trans-1,3-Dichloropropene	9.892	75	1427	0.023	ppbv 96
48) 1,1,2-Trichloroethane	10.005	97	1499	0.028	ppbv# 74
49) Toluene	10.159	91	6879	0.043	ppbv# 87
50) Dibromochloromethane	10.413	129	2936	0.029	ppbv# 72

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_06.D
 Acq On : 13 Apr 2023 6:06 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ; to1503p
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 11:17:38 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.300	43	2787	0.038	ppbv#	91
52)	1,2-Dibromoethane(EDB)	10.715	107	355	0.004	ppbv	80
53)	Tetrachloroethene	10.800	166	2179	0.024	ppbv#	71
55)	1,1,1,2-Tetrachloroethane	11.163	131	2075	0.032	ppbv	89
56)	Chlorobenzene	11.178	112	4171	0.033	ppbv#	1
57)	Ethylbenzene	11.367	91	4679	0.024	ppbv	64
58)	m,p-Xylene	11.458	91	7050	0.048	ppbv#	89
59)	Bromoform	11.549	173	2854	0.024	ppbv	88
60)	Styrene	11.663	104	3411	0.028	ppbv#	73
61)	1,1,2,2-Tetrachloroethane	11.724	83	3039	0.027	ppbv#	81
62)	o-Xylene	11.724	91	3835	0.025	ppbv#	61
65)	Isopropylbenzene	12.050	105	6495	0.031	ppbv	96
67)	4-Ethyltoluene	12.414	105	5459	0.024	ppbv#	86
68)	1,3,5-Trimethylbenzene	12.460	105	5103	0.028	ppbv	97
69)	1,2,4-Trimethylbenzene	12.711	105	4775	0.026	ppbv#	89
71)	Benzyl chloride	12.809	91	3670	0.024	ppbv#	67
72)	1,3-Dichlorobenzene	12.824	146	3673	0.027	ppbv	93
73)	1,4-Dichlorobenzene	12.870	146	7283	0.054	ppbv	95
74)	sec-Butylbenzene	12.870	105	6955	0.027	ppbv#	89
75)	4-Isopropyltoluene	12.961	119	6608	0.027	ppbv#	93
76)	1,2-Dichlorobenzene	13.083	146	3394	0.026	ppbv	96
77)	n-Butylbenzene	13.227	91	5537	0.027	ppbv	97
78)	1,2,4-Trichlorobenzene	14.283	180	3817	0.036	ppbv#	96
80)	Hexachlorobutadiene	14.632	225	3270	0.033	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.336	85	1745m	0.021	ppbv	78
83)	Vinyl Chloride(sim)	4.449	62	602	0.020	ppbv#	86
84)	Bromomethane(sim)	4.814	94	697m	0.021	ppbv	1
85)	Trichlorofluoromethane...	5.556	101	1641	0.020	ppbv#	98
86)	1,2-Dichloroethane(sim)	8.055	62	870m	0.020	ppbv	93
87)	1,1,1-Trichloroethane(...	8.222	97	1629	0.021	ppbv#	96
88)	Benzene(sim)	8.499	78	3911m	0.029	ppbv	90
89)	Carbon Tetrachloride(sim)	8.594	117	1586	0.020	ppbv	97
90)	1,1-Dichloroethene(sim)	6.010	61	979m	0.020	ppbv	75
91)	Trichlorotrifluoroetha...	6.272	101	1405	0.020	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.725	61	1035m	0.020	ppbv	64
93)	1,1-Dichloroethane(sim)	6.862	63	1262	0.020	ppbv#	77
94)	Cis-1,2-Dichloroethene...	7.397	61	982m	0.020	ppbv	22
95)	Chloroform(sim)	7.587	83	2130	0.025	ppbv#	94
97)	1,2-dichloropropane(sim)	8.975	63	965m	0.020	ppbv	86
98)	Bromodichloromethane(sim)	9.096	83	1682m	0.020	ppbv	1
99)	Trichloroethene(sim)	9.113	130	1277	0.021	ppbv	98
100)	1,4-Dioxane(sim)	9.148	88	582m	0.021	ppbv	2
101)	cis-1,3-Dichloropropen...	9.599	75	1393	0.020	ppbv#	92
102)	1,1,2-Trichloroethane(...	10.000	97	1207m	0.022	ppbv	75
103)	Dibromochloromethane(sim)	10.416	129	1950	0.021	ppbv#	69
104)	1,2-Dibromoethane(EDB)...	10.556	107	1793m	0.020	ppbv	64
105)	Tetrachloroethene(sim)	10.803	166	1984	0.022	ppbv	97
107)	Bromoform(sim)	11.545	173	2145	0.021	ppbv	97
108)	m,p-Xylene(sim)	11.458	91	7159	0.046	ppbv#	79
109)	1,1,2,2-Tetrachloroeth...	11.727	83	2646	0.022	ppbv#	88
112)	Benzyl chloride(sim)	12.809	91	3579	0.022	ppbv#	65
113)	1,3-Dichlorobenzene(sim)	12.827	146	3239	0.021	ppbv	100
115)	sec-Butylbenzene(sim)	12.706	105	4660	0.023	ppbv	98
116)	4-Isopropyltoluene(sim)	12.961	119	6412	0.024	ppbv#	93
117)	1,2-Dichlorobenzene(sim)	13.086	146	3225	0.023	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_06.D
 Acq On : 13 Apr 2023 6:06 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ; to1503p
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 11:17:38 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

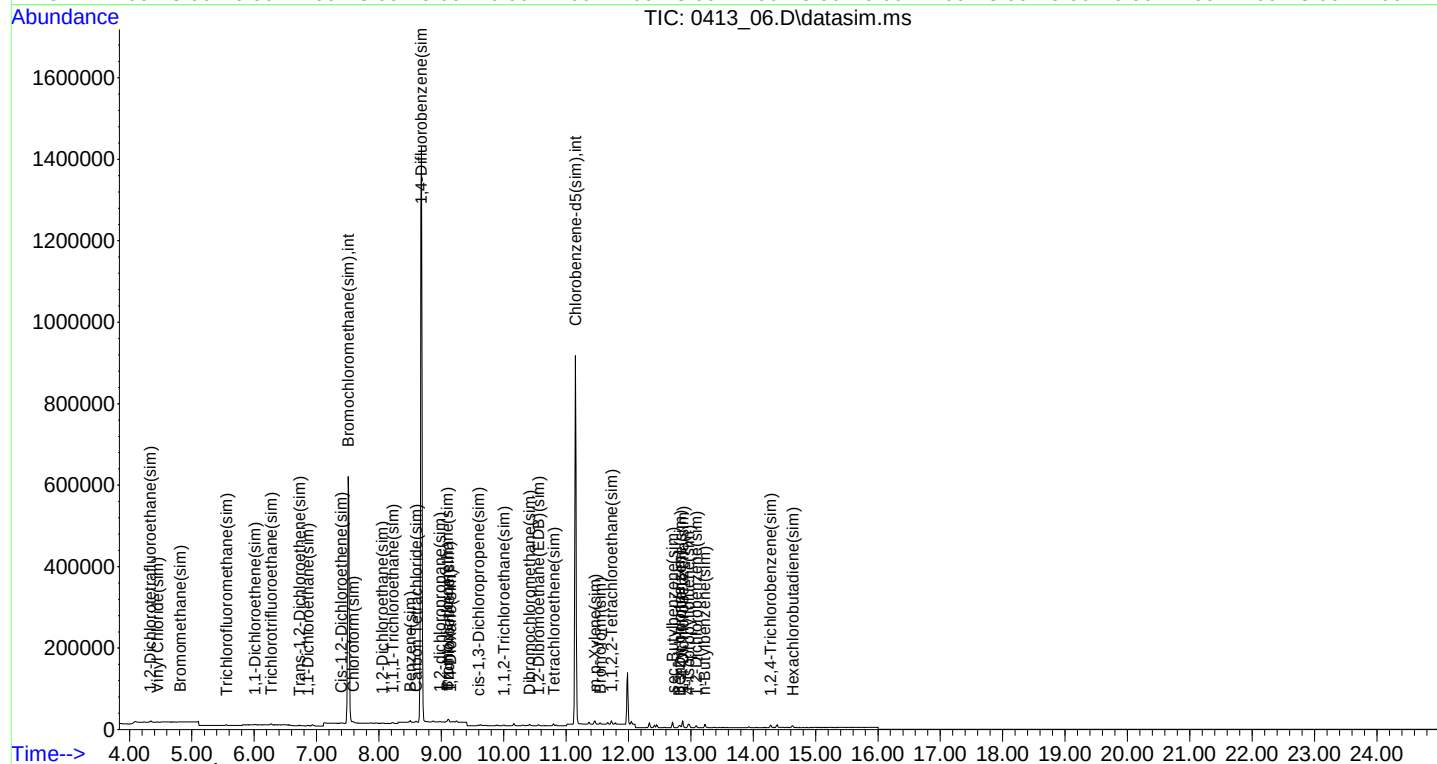
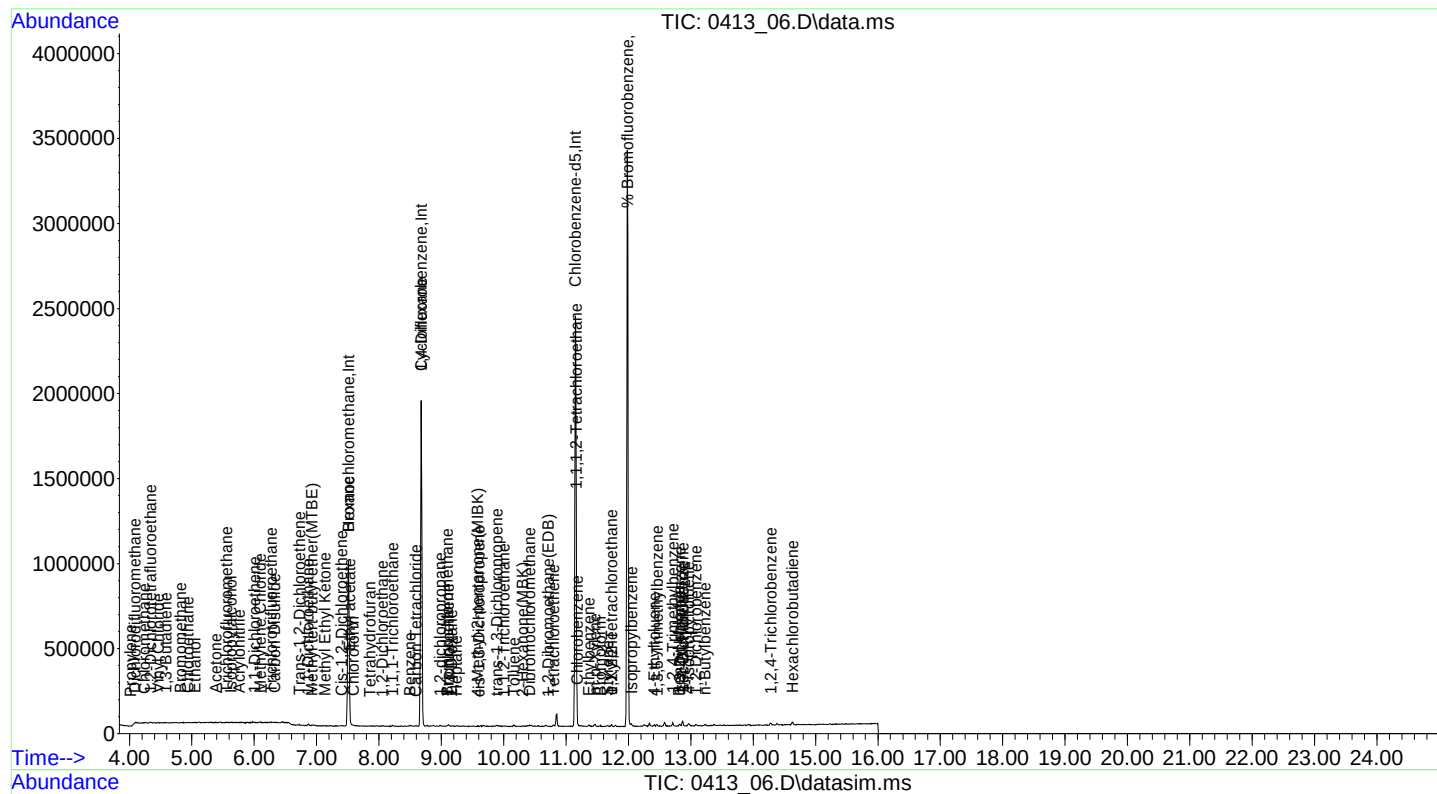
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.222	91	5175m	0.024	ppbv	97
119]	1,2,4-Trichlorobenzene...	14.278	180	3592	0.034	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

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Data Path   : H:\AIR2023\CHEM39\04APR\13\  
Data File  : 0413_06.D  
Acq On     : 13 Apr 2023    6:06 pm  
Operator   :  
Client ID  : ICAL 0.02  
Lab ID     : 0.02 ; to1503p  
ALS Vial   : 3    Sample Multiplier: 1
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Quant Time: Apr 14 11:17:38 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Fri Apr 14 11:12:38 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_07.D
 Acq On : 13 Apr 2023 6:43 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 ; to1503p
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 11:18:42 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:17:47 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.505	130	399921	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.678	114	1456372	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	691923	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	377488	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.678	114	1456372	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	691923	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.982 95 1000576 10.575 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 105.80%

Target Compounds					Qvalue
2) Propylene	3.968	41	382	0.017 ppbv	95
3) Dichlorodifluoromethane	4.081	85	4788	0.057 ppbv#	92
4) Chloromethane	4.243	50	1661	0.073 ppbv	86
5) 1,2-Dichlorotetrafluor...	4.333	85	4540	0.055 ppbv	90
6) Vinyl Chloride	4.438	62	1316	0.045 ppbv#	37
7) 1,3-Butadiene	4.552	54	719	0.035 ppbv#	6
8) Bromomethane	4.803	94	1466	0.045 ppbv#	91
9) Chloroethane	4.933	64	1313	0.089 ppbv	80
11) Ethanol	5.055	45	910	0.118 ppbv#	74
12) Acetone	5.443	43	4171	0.103 ppbv#	70
13) Trichlorofluoromethane	5.553	101	3003	0.036 ppbv#	80
14) Isopropylalcohol	5.584	45	553	0.012 ppbv#	25
15) Acrylonitrile	5.762	53	1143	0.057 ppbv#	55
16) 1,1-Dichloroethene	6.007	61	2002	0.042 ppbv#	87
17) Methylene Chloride	6.085	49	1378	0.046 ppbv#	55
20) Carbon Disulfide	6.317	76	4164	0.047 ppbv#	79
21) Trichlorotrifluoroethane	6.263	101	2754	0.039 ppbv#	82
22) Trans-1,2-Dichloroethene	6.722	61	1659	0.032 ppbv#	86
23) 1,1-Dichloroethane	6.865	63	2528	0.040 ppbv#	20
24) Methyl tert-butyl ethe...	6.871	73	530	0.005 ppbv#	74
26) Methyl Ethyl Ketone	7.085	43	197	0.003 ppbv#	1
27) Cis-1,2-Dichloroethene	7.394	61	1748	0.036 ppbv#	74
28) Hexane	7.513	57	3325	0.061 ppbv#	68
29) Chloroform	7.577	83	3278	0.042 ppbv#	68
30) Ethyl acetate	7.529	61	754	0.048 ppbv#	37
31) Tetrahydrofuran	7.878	42	2098	0.059 ppbv	93
32) 1,2-Dichloroethane	8.044	62	1733	0.041 ppbv#	86
33) 1,1,1-Trichloroethane	8.211	97	2793	0.036 ppbv#	79
34) Benzene	8.496	78	6712	0.055 ppbv#	64
35) Carbon Tetrachloride	8.591	117	3597	0.043 ppbv#	84
36) Cyclohexane	8.661	84	2473	0.051 ppbv#	1
38) 1,2-dichloropropane	8.972	63	2090	0.045 ppbv#	89
39) Bromodichloromethane	9.093	83	3647	0.045 ppbv#	86
40) Trichloroethene	9.111	130	2522	0.041 ppbv	92
42) 1,4-Dioxane	9.085	88	110	0.004 ppbv#	1
44) Heptane	9.240	43	2413	0.040 ppbv#	70
45) cis-1,3-Dichloropropene	9.596	75	2524	0.036 ppbv#	50
46) 4-Methyl-2-pentanone(M...	9.589	43	461	0.006 ppbv#	11
47) trans-1,3-Dichloropropene	9.892	75	2457	0.039 ppbv#	70
48) 1,1,2-Trichloroethane	10.005	97	2246	0.042 ppbv#	87
49) Toluene	10.159	91	7325	0.046 ppbv#	81
50) Dibromochloromethane	10.413	129	4116	0.041 ppbv#	82

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_07.D
 Acq On : 13 Apr 2023 6:43 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 ; to1503p
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 11:18:42 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:17:47 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.300	43	3163	0.044	ppbv#	84
52)	1,2-Dibromoethane(EDB)	10.554	107	4059	0.046	ppbv	99
53)	Tetrachloroethene	10.793	166	3826	0.043	ppbv#	89
55)	1,1,1,2-Tetrachloroethane	11.163	131	3225	0.050	ppbv	95
56)	Chlorobenzene	11.079	112	572	0.005	ppbv	82
57)	Ethylbenzene	11.367	91	7934	0.041	ppbv	77
58)	m,p-Xylene	11.458	91	12025	0.082	ppbv#	89
59)	Bromoform	11.542	173	3869	0.033	ppbv	96
60)	Styrene	11.663	104	5827	0.049	ppbv#	85
61)	1,1,2,2-Tetrachloroethane	11.724	83	4417	0.040	ppbv#	69
62)	o-Xylene	11.724	91	6474	0.043	ppbv#	87
65)	Isopropylbenzene	12.042	105	9843	0.047	ppbv	97
67)	4-Ethyltoluene	12.414	105	8746	0.040	ppbv	90
68)	1,3,5-Trimethylbenzene	12.452	105	7388	0.041	ppbv#	89
69)	1,2,4-Trimethylbenzene	12.711	105	7881	0.043	ppbv	96
71)	Benzyl chloride	12.809	91	5812	0.039	ppbv#	91
72)	1,3-Dichlorobenzene	12.824	146	5323	0.039	ppbv	88
73)	1,4-Dichlorobenzene	12.862	146	9542	0.072	ppbv	96
74)	sec-Butylbenzene	12.870	105	9841	0.038	ppbv#	92
75)	4-Isopropyltoluene	12.961	119	11746	0.048	ppbv	92
76)	1,2-Dichlorobenzene	13.083	146	5163	0.040	ppbv#	83
77)	n-Butylbenzene	13.227	91	8132	0.040	ppbv	92
78)	1,2,4-Trichlorobenzene	14.275	180	4764	0.046	ppbv	99
80)	Hexachlorobutadiene	14.632	225	4541	0.046	ppbv	97
82)	1,2-Dichlorotetrafluor...	4.327	85	2899m	0.035	ppbv	87
83)	Vinyl Chloride(sim)	4.441	62	1042	0.036	ppbv#	83
84)	Bromomethane(sim)	4.806	94	1150m	0.034	ppbv	91
85)	Trichlorofluoromethane...	5.550	101	2815	0.034	ppbv#	99
86)	1,2-Dichloroethane(sim)	8.055	62	1441m	0.034	ppbv	86
87)	1,1,1-Trichloroethane(...	8.214	97	2686	0.034	ppbv#	98
88)	Benzene(sim)	8.499	78	5625m	0.041	ppbv	64
89)	Carbon Tetrachloride(sim)	8.586	117	2721	0.035	ppbv	96
90)	1,1-Dichloroethene(sim)	6.010	61	1678m	0.035	ppbv	87
91)	Trichlorotrifluoroetha...	6.260	101	2387	0.034	ppbv#	96
92)	Trans-1,2-Dichloroethe...	6.722	61	1659	0.033	ppbv#	86
93)	1,1-Dichloroethane(sim)	6.862	63	2195	0.034	ppbv#	91
94)	Cis-1,2-Dichloroethene...	7.394	61	1748	0.036	ppbv#	76
95)	Chloroform(sim)	7.579	83	3124	0.037	ppbv#	89
97)	1,2-dichloropropane(sim)	8.975	63	1637	0.034	ppbv	98
98)	Bromodichloromethane(sim)	9.088	83	3111m	0.037	ppbv	94
99)	Trichloroethene(sim)	9.113	130	2094	0.034	ppbv	98
100)	1,4-Dioxane(sim)	9.148	88	981m	0.035	ppbv	1
101)	cis-1,3-Dichloropropen...	9.599	75	2421	0.035	ppbv	98
102)	1,1,2-Trichloroethane(...	10.000	97	1880m	0.035	ppbv	87
103)	Dibromochloromethane(sim)	10.416	129	3291	0.035	ppbv#	83
104)	1,2-Dibromoethane(EDB)...	10.557	107	3072m	0.035	ppbv	97
105)	Tetrachloroethene(sim)	10.796	166	3475	0.039	ppbv	99
107)	Bromoform(sim)	11.545	173	3559	0.035	ppbv	99
108)	m,p-Xylene(sim)	11.458	91	12025	0.078	ppbv#	93
109)	1,1,2,2-Tetrachloroeth...	11.727	83	4158	0.035	ppbv	97
112)	Benzyl chloride(sim)	12.809	91	5607	0.036	ppbv	89
113)	1,3-Dichlorobenzene(sim)	12.827	146	5183	0.035	ppbv	99
115)	sec-Butylbenzene(sim)	12.706	105	7554	0.037	ppbv	98
116)	4-Isopropyltoluene(sim)	12.961	119	10738	0.041	ppbv	97
117)	1,2-Dichlorobenzene(sim)	13.086	146	5163	0.038	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_07.D
 Acq On : 13 Apr 2023 6:43 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 ; to1503p
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Apr 14 11:18:42 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Apr 14 11:17:47 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.227	91	8132	0.038	ppbv	92
119]	1,2,4-Trichlorobenzene...	14.278	180	4713	0.046	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

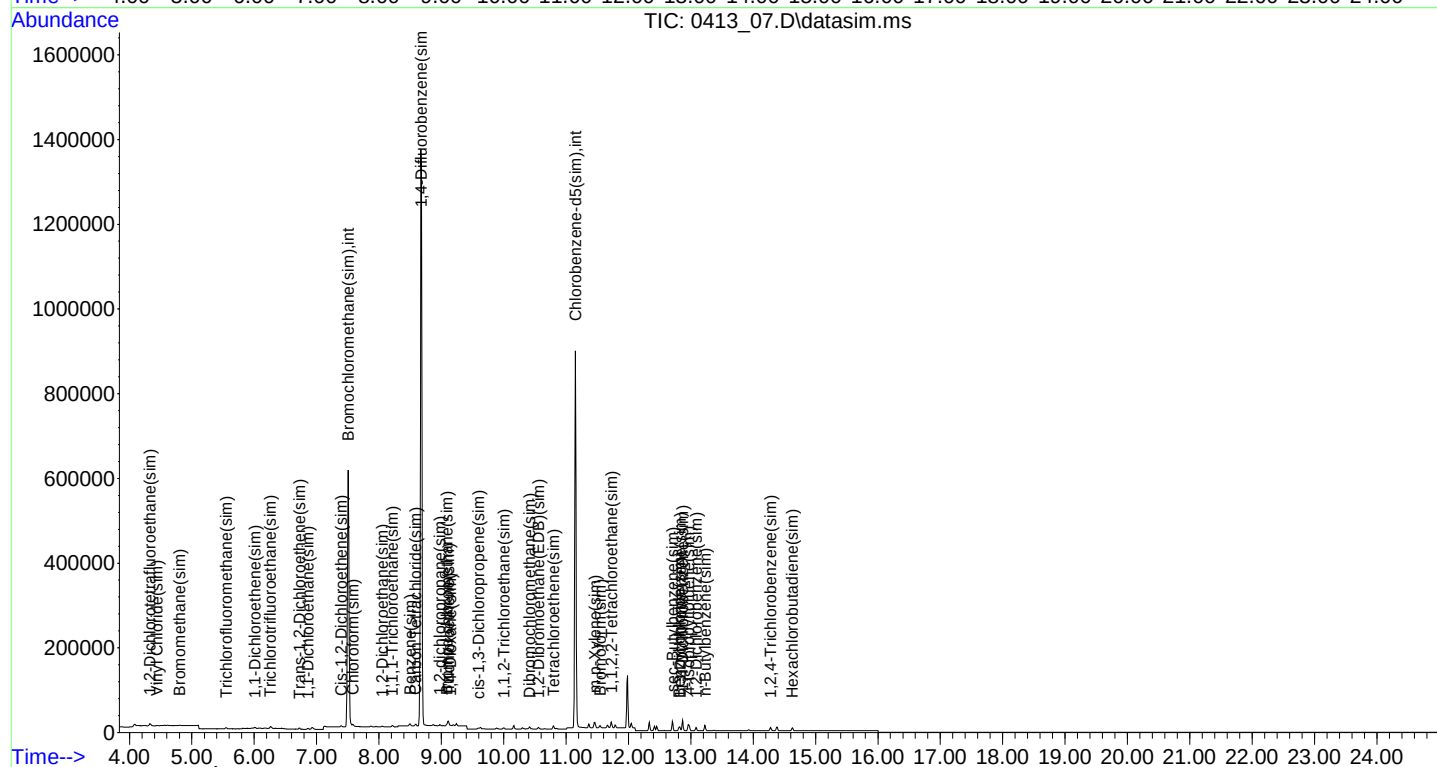
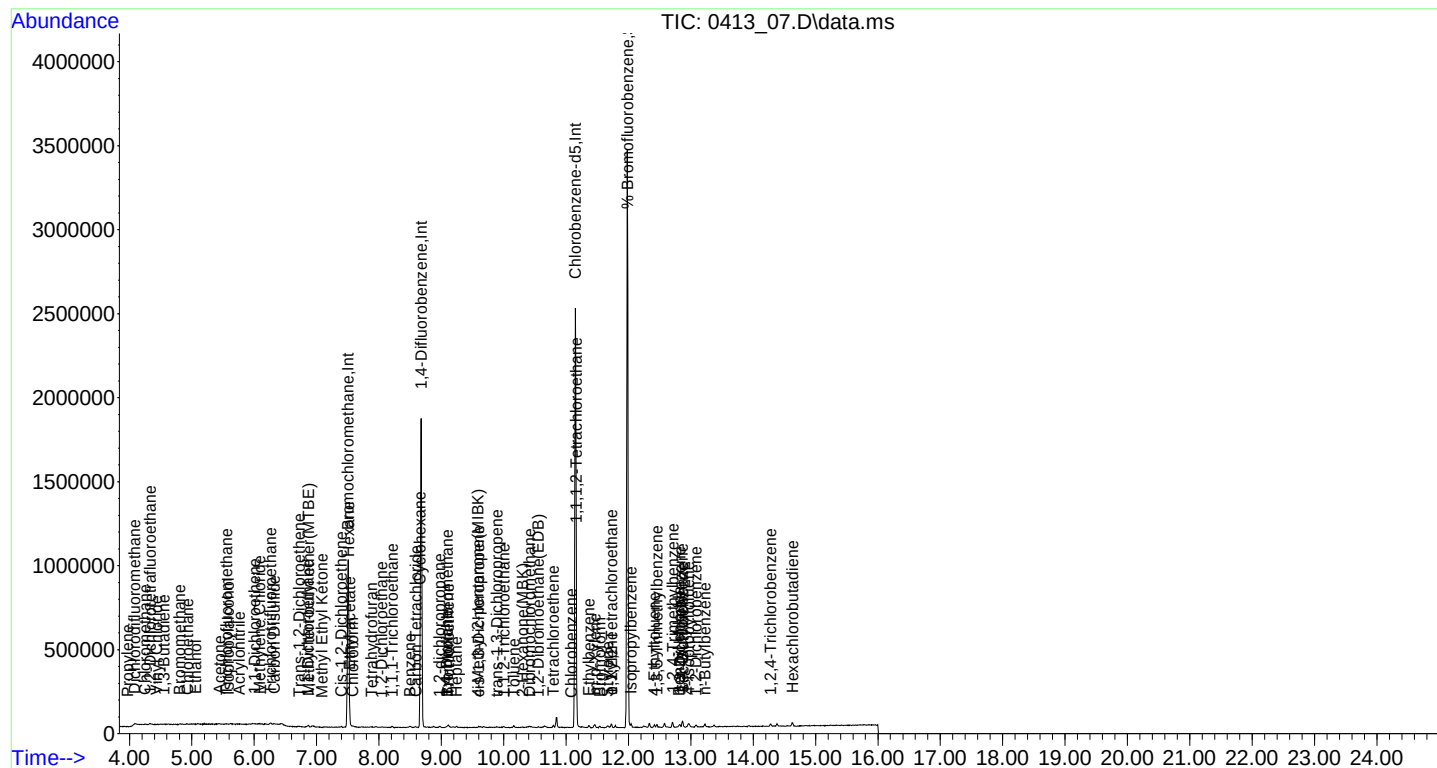
Quantitation Report (RF) (QT Reviewed)

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Data Path   : H:\AIR2023\CHEM39\04APR\13\
Data File   : 0413_07.D
Acq On      : 13 Apr 2023    6:43 pm
Operator    :
Client ID    : ICAL 0.035
Lab ID      : 0.035 ; to1503p
ALS Vial    : 4    Sample Multiplier: 1

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Quant Time: Apr 14 11:18:42 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Fri Apr 14 11:17:47 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_08.D
 Acq On : 13 Apr 2023 7:22 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ; to1503p
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 14 11:19:29 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.513	130	396477	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.678	114	1462918	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	686421	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	374198	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.678	114	1463304	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	686530	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.982	95	998173	10.634	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	106.30%

Target Compounds						Qvalue
2) Propylene	3.960	41	669	0.030	ppbv	88
3) Dichlorodifluoromethane	4.089	85	5090	0.061	ppbv#	83
4) Chloromethane	4.235	50	1444	0.064	ppbv	66
5) 1,2-Dichlorotetrafluor...	4.333	85	4132	0.050	ppbv#	79
6) Vinyl Chloride	4.446	62	1575	0.054	ppbv#	1
7) 1,3-Butadiene	4.576	54	1241	0.060	ppbv#	76
8) Bromomethane	4.811	94	2054	0.064	ppbv#	78
9) Chloroethane	4.949	64	1220	0.084	ppbv#	69
11) Ethanol	5.055	45	1995	0.262	ppbv#	60
12) Acetone	5.406	43	509	0.013	ppbv#	76
13) Trichlorofluoromethane	5.553	101	4242	0.052	ppbv#	86
14) Isopropylalcohol	5.590	45	231	0.005	ppbv#	65
15) Acrylonitrile	5.768	53	1515	0.077	ppbv#	86
16) 1,1-Dichloroethene	6.007	61	2570	0.055	ppbv#	82
17) Methylene Chloride	6.091	49	1884	0.064	ppbv#	71
20) Carbon Disulfide	6.329	76	5442	0.062	ppbv#	79
21) Trichlorotrifluoroethane	6.269	101	3857	0.055	ppbv	90
22) Trans-1,2-Dichloroethene	6.734	61	2610	0.052	ppbv	89
23) 1,1-Dichloroethane	6.865	63	3788	0.060	ppbv#	56
24) Methyl tert-butyl ethe...	6.865	73	190	0.002	ppbv#	1
26) Methyl Ethyl Ketone	7.140	43	4128	0.065	ppbv#	82
27) Cis-1,2-Dichloroethene	7.402	61	2461	0.051	ppbv#	80
28) Hexane	7.513	57	3472	0.065	ppbv#	52
29) Chloroform	7.584	83	4696	0.060	ppbv	95
30) Ethyl acetate	7.537	61	720	0.046	ppbv#	27
31) Tetrahydrofuran	7.870	42	3708	0.105	ppbv#	77
32) 1,2-Dichloroethane	8.052	62	2236	0.053	ppbv#	88
33) 1,1,1-Trichloroethane	8.219	97	4310	0.057	ppbv	92
34) Benzene	8.505	78	8544	0.070	ppbv	99
35) Carbon Tetrachloride	8.591	117	4588	0.056	ppbv	94
36) Cyclohexane	8.669	84	3420	0.071	ppbv#	15
38) 1,2-dichloropropane	8.981	63	3315	0.071	ppbv	96
39) Bromodichloromethane	9.093	83	5282	0.065	ppbv#	71
40) Trichloroethene	9.111	130	3162	0.051	ppbv	95
42) 1,4-Dioxane	9.154	88	1419	0.052	ppbv#	24
44) Heptane	9.249	43	3400	0.056	ppbv#	80
45) cis-1,3-Dichloropropene	9.603	75	3688	0.053	ppbv#	79
46) 4-Methyl-2-pentanone(M...	9.632	43	4385	0.057	ppbv#	87
47) trans-1,3-Dichloropropene	9.892	75	3371	0.054	ppbv#	80
48) 1,1,2-Trichloroethane	9.998	97	2908	0.055	ppbv#	90
49) Toluene	10.159	91	9848	0.062	ppbv#	90
50) Dibromochloromethane	10.413	129	5975	0.059	ppbv#	83

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_08.D
 Acq On : 13 Apr 2023 7:22 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ; to1503p
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 14 11:19:29 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.300	43	3848	0.053	ppbv#	83
52)	1,2-Dibromoethane(EDB)	10.554	107	5265	0.060	ppbv	99
53)	Tetrachloroethene	10.800	166	5379	0.060	ppbv	96
55)	1,1,1,2-Tetrachloroethane	11.163	131	3778	0.059	ppbv	90
56)	Chlorobenzene	11.178	112	7821	0.064	ppbv#	1
57)	Ethylbenzene	11.367	91	11258	0.059	ppbv	90
58)	m,p-Xylene	11.458	91	16955	0.117	ppbv	95
59)	Bromoform	11.542	173	5628	0.049	ppbv	99
60)	Styrene	11.663	104	7137	0.060	ppbv#	90
61)	1,1,2,2-Tetrachloroethane	11.724	83	6152	0.056	ppbv	92
62)	o-Xylene	11.731	91	9301	0.062	ppbv	98
65)	Isopropylbenzene	12.042	105	11787	0.057	ppbv#	88
67)	4-Ethyltoluene	12.414	105	12462	0.057	ppbv#	96
68)	1,3,5-Trimethylbenzene	12.452	105	9993	0.056	ppbv	97
69)	1,2,4-Trimethylbenzene	12.703	105	10504	0.058	ppbv#	96
71)	Benzyl chloride	12.809	91	7924	0.054	ppbv#	87
72)	1,3-Dichlorobenzene	12.824	146	7581	0.056	ppbv	94
73)	1,4-Dichlorobenzene	12.862	146	11033	0.084	ppbv	95
74)	sec-Butylbenzene	12.870	105	14867	0.058	ppbv	96
75)	4-Isopropyltoluene	12.961	119	13750	0.057	ppbv	94
76)	1,2-Dichlorobenzene	13.083	146	7283	0.057	ppbv	88
77)	n-Butylbenzene	13.227	91	11898	0.059	ppbv	95
78)	1,2,4-Trichlorobenzene	14.283	180	6313	0.061	ppbv	95
80)	Hexachlorobutadiene	14.632	225	5576	0.058	ppbv	97
82)	1,2-Dichlorotetrafluor...	4.333	85	4017	0.048	ppbv#	76
83)	Vinyl Chloride(sim)	4.449	62	1490	0.051	ppbv	100
84)	Bromomethane(sim)	4.814	94	1716m	0.052	ppbv	77
85)	Trichlorofluoromethane...	5.556	101	4104	0.050	ppbv#	99
86)	1,2-Dichloroethane(sim)	8.052	62	2236	0.054	ppbv#	88
87)	1,1,1-Trichloroethane(...	8.222	97	3948	0.051	ppbv#	98
88)	Benzene(sim)	8.499	78	7788m	0.058	ppbv	98
89)	Carbon Tetrachloride(sim)	8.594	117	3920	0.051	ppbv	98
90)	1,1-Dichloroethene(sim)	6.007	61	2570	0.054	ppbv#	82
91)	Trichlorotrifluoroetha...	6.272	101	3455	0.049	ppbv#	87
92)	Trans-1,2-Dichloroethe...	6.734	61	2610	0.052	ppbv#	81
93)	1,1-Dichloroethane(sim)	6.862	63	3215	0.051	ppbv#	94
94)	Cis-1,2-Dichloroethene...	7.402	61	2461	0.051	ppbv#	77
95)	Chloroform(sim)	7.587	83	4425	0.053	ppbv#	93
97)	1,2-dichloropropane(sim)	8.975	63	2408	0.050	ppbv	92
98)	Bromodichloromethane(sim)	9.088	83	4083m	0.049	ppbv	74
99)	Trichloroethene(sim)	9.113	130	3045	0.050	ppbv	98
100)	1,4-Dioxane(sim)	9.154	88	1419	0.051	ppbv#	31
101)	cis-1,3-Dichloropropen...	9.599	75	3405	0.049	ppbv	94
102)	1,1,2-Trichloroethane(...	9.998	97	2908	0.054	ppbv	90
103)	Dibromochloromethane(sim)	10.416	129	4725	0.050	ppbv#	87
104)	1,2-Dibromoethane(EDB)...	10.554	107	5122	0.057	ppbv	98
105)	Tetrachloroethene(sim)	10.803	166	4942	0.055	ppbv	99
107)	Bromoform(sim)	11.545	173	5131	0.051	ppbv	99
108)	m,p-Xylene(sim)	11.458	91	16955	0.110	ppbv#	95
109)	1,1,2,2-Tetrachloroeth...	11.727	83	6103	0.052	ppbv	98
112)	Benzyl chloride(sim)	12.809	91	7840	0.050	ppbv	86
113)	1,3-Dichlorobenzene(sim)	12.827	146	7260	0.049	ppbv	99
115)	sec-Butylbenzene(sim)	12.706	105	10504	0.052	ppbv	99
116)	4-Isopropyltoluene(sim)	12.961	119	13913	0.053	ppbv	95
117)	1,2-Dichlorobenzene(sim)	13.086	146	7168	0.053	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
Data File : 0413_08.D
Acq On : 13 Apr 2023 7:22 pm
Operator :
Client ID : ICAL 0.05
Lab ID : 0.05 ; to1503p
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 14 11:19:29 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:12:38 2023
Response via : Initial Calibration

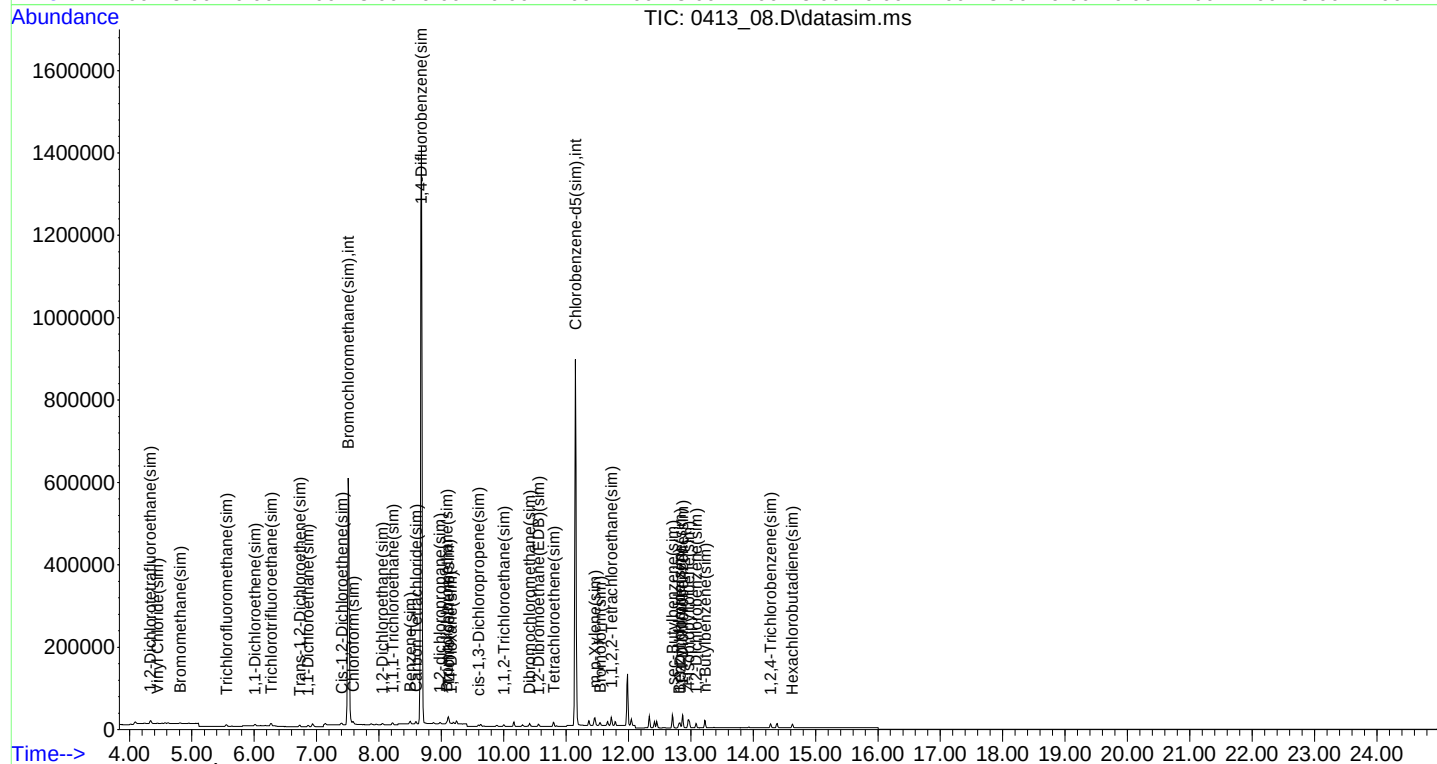
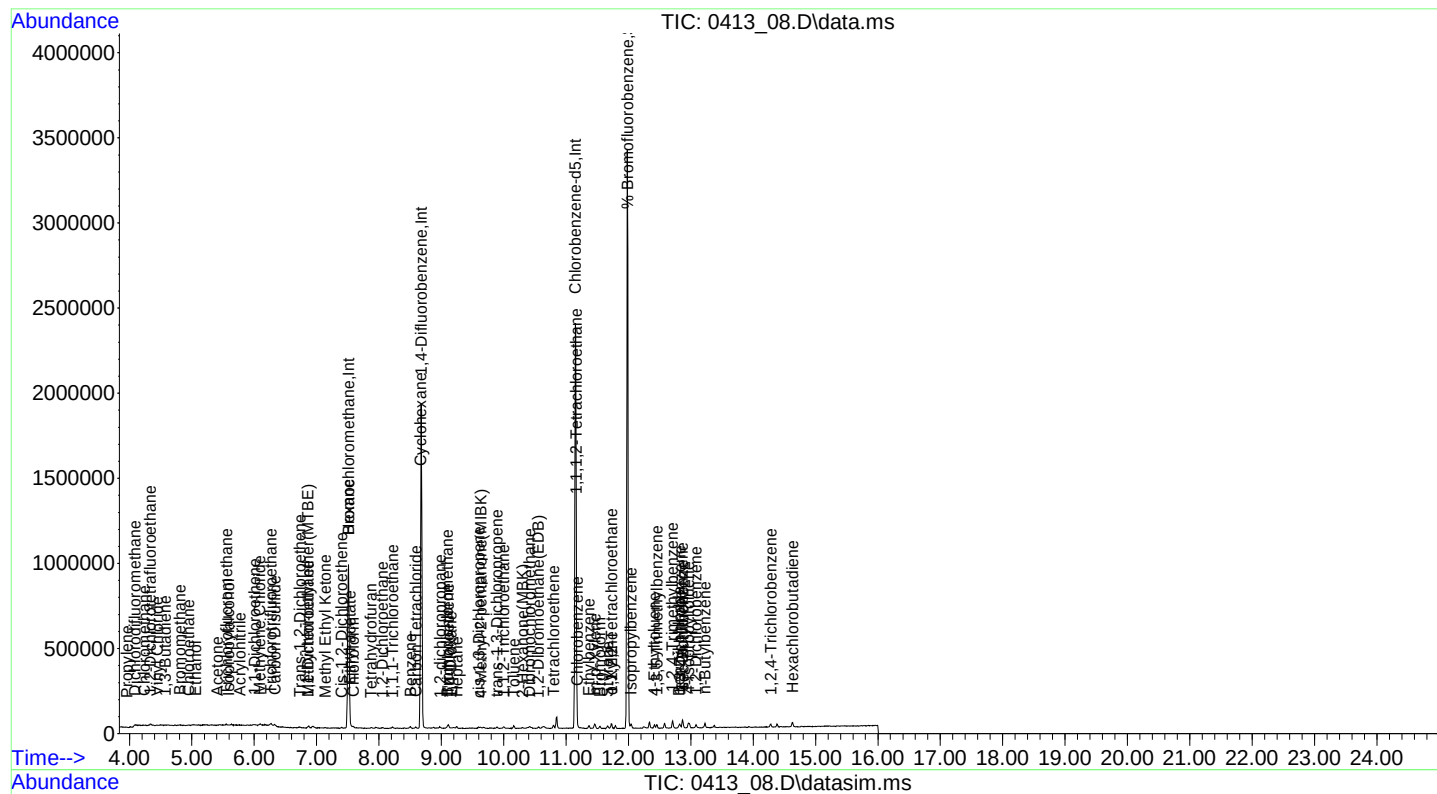
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.227	91	11898	0.056	ppbv	96
119]	1,2,4-Trichlorobenzene...	14.278	180	5885	0.058	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

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Data Path   : H:\AIR2023\CHEM39\04APR\13\  
Data File  : 0413_08.D  
Acq On     : 13 Apr 2023    7:22 pm  
Operator   :  
Client ID  : ICAL 0.05  
Lab ID     : 0.05 ; to1503p  
ALS Vial   : 5    Sample Multiplier: 1
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Quant Time: Apr 14 11:19:29 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:12:38 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_09.D
 Acq On : 13 Apr 2023 7:57 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ; to1503g
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 11:14:10 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.505	130	396452	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.678	114	1460249	10.000	ng	0.00
54) Chlorobenzene-d5	11.147	82	693500	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	374258	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.678	114	1460249	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.147	82	693689	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.982	95	986733	10.405	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.10%

Target Compounds						Qvalue
2) Propylene	4.008	41	2634	0.120	ppbv#	86
3) Dichlorodifluoromethane	4.081	85	8565	0.103	ppbv#	81
4) Chloromethane	4.235	50	2960	0.131	ppbv	94
5) 1,2-Dichlorotetrafluor...	4.324	85	8441	0.103	ppbv#	86
6) Vinyl Chloride	4.438	62	2962	0.102	ppbv#	58
7) 1,3-Butadiene	4.560	54	2529	0.123	ppbv#	94
8) Bromomethane	4.803	94	3887	0.121	ppbv#	36
9) Chloroethane	4.941	64	2363	0.162	ppbv	80
11) Ethanol	5.046	45	1636	0.215	ppbv#	80
12) Acetone	5.436	43	4954	0.124	ppbv#	58
13) Trichlorofluoromethane	5.541	101	8962	0.109	ppbv#	89
14) Isopropylalcohol	5.565	45	51	0.001	ppbv#	1
15) Acrylonitrile	5.749	53	2778	0.140	ppbv	89
16) 1,1-Dichloroethene	6.007	61	5230	0.111	ppbv#	76
17) Methylene Chloride	6.090	49	3705	0.125	ppbv#	70
20) Carbon Disulfide	6.323	76	10713	0.122	ppbv#	93
21) Trichlorotrifluoroethane	6.257	101	8222	0.117	ppbv	94
22) Trans-1,2-Dichloroethene	6.722	61	5283	0.104	ppbv#	80
23) 1,1-Dichloroethane	6.858	63	6612	0.104	ppbv	90
24) Methyl tert-butyl ethe...	6.912	73	10771	0.110	ppbv#	88
26) Methyl Ethyl Ketone	7.124	43	5545	0.087	ppbv#	82
27) Cis-1,2-Dichloroethene	7.394	61	5062	0.105	ppbv	97
28) Hexane	7.513	57	6610	0.123	ppbv#	97
29) Chloroform	7.584	83	8858	0.114	ppbv	93
30) Ethyl acetate	7.521	61	1388	0.089	ppbv#	57
31) Tetrahydrofuran	7.870	42	4179	0.118	ppbv	100
32) 1,2-Dichloroethane	8.052	62	3990	0.094	ppbv#	81
33) 1,1,1-Trichloroethane	8.211	97	8098	0.106	ppbv	97
34) Benzene	8.496	78	14736	0.121	ppbv#	92
35) Carbon Tetrachloride	8.591	117	8536	0.104	ppbv	96
36) Cyclohexane	8.661	84	6104	0.127	ppbv#	44
38) 1,2-dichloropropane	8.981	63	5508	0.117	ppbv	94
39) Bromodichloromethane	9.093	83	9419	0.116	ppbv	95
40) Trichloroethene	9.110	130	6382	0.103	ppbv	96
42) 1,4-Dioxane	9.136	88	2965	0.109	ppbv#	81
44) Heptane	9.240	43	6859	0.113	ppbv#	82
45) cis-1,3-Dichloropropene	9.596	75	6954	0.100	ppbv	88
46) 4-Methyl-2-pentanone(M...	9.624	43	7749	0.101	ppbv	96
47) trans-1,3-Dichloropropene	9.885	75	6155	0.098	ppbv#	66
48) 1,1,2-Trichloroethane	9.997	97	5594	0.105	ppbv	97
49) Toluene	10.159	91	17415	0.109	ppbv#	95
50) Dibromochloromethane	10.413	129	11553	0.114	ppbv	93

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_09.D
 Acq On : 13 Apr 2023 7:57 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ; to1503g
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 11:14:10 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.300	43	7070	0.097	ppbv#	89
52)	1,2-Dibromoethane(EDB)	10.553	107	9038	0.103	ppbv	92
53)	Tetrachloroethene	10.793	166	9157	0.102	ppbv	94
55)	1,1,1,2-Tetrachloroethane	11.163	131	7001	0.109	ppbv	89
56)	Chlorobenzene	11.261	112	649	0.005	ppbv	83
57)	Ethylbenzene	11.367	91	21010	0.109	ppbv	97
58)	m,p-Xylene	11.458	91	32875	0.224	ppbv#	94
59)	Bromoform	11.542	173	11562	0.099	ppbv	99
60)	Styrene	11.663	104	12806	0.107	ppbv	93
61)	1,1,2,2-Tetrachloroethane	11.724	83	12418	0.113	ppbv	93
62)	o-Xylene	11.724	91	16294	0.107	ppbv	92
65)	Isopropylbenzene	12.042	105	24233	0.116	ppbv	99
67)	4-Ethyltoluene	12.414	105	24408	0.110	ppbv	96
68)	1,3,5-Trimethylbenzene	12.452	105	18946	0.105	ppbv	98
69)	1,2,4-Trimethylbenzene	12.703	105	20002	0.110	ppbv#	96
71)	Benzyl chloride	12.809	91	15031	0.102	ppbv#	95
72)	1,3-Dichlorobenzene	12.824	146	15440	0.113	ppbv	97
73)	1,4-Dichlorobenzene	12.862	146	17383	0.131	ppbv	97
74)	sec-Butylbenzene	12.870	105	28049	0.109	ppbv#	95
75)	4-Isopropyltoluene	12.961	119	27586	0.113	ppbv	99
76)	1,2-Dichlorobenzene	13.083	146	13810	0.107	ppbv	98
77)	n-Butylbenzene	13.227	91	22047	0.108	ppbv	98
78)	1,2,4-Trichlorobenzene	14.275	180	9042	0.086	ppbv	99
80)	Hexachlorobutadiene	14.632	225	9385	0.096	ppbv	97
82)	1,2-Dichlorotetrafluor...	4.324	85	8441	0.101	ppbv#	86
83)	Vinyl Chloride(sim)	4.441	62	2907	0.100	ppbv	99
84)	Bromomethane(sim)	4.803	94	3887	0.117	ppbv#	36
85)	Trichlorofluoromethane...	5.544	101	8668	0.106	ppbv#	98
86)	1,2-Dichloroethane(sim)	8.052	62	3990	0.096	ppbv#	81
87)	1,1,1-Trichloroethane(...	8.214	97	7879	0.102	ppbv#	94
88)	Benzene(sim)	8.496	78	14736	0.109	ppbv#	91
89)	Carbon Tetrachloride(sim)	8.586	117	7930	0.102	ppbv	100
90)	1,1-Dichloroethene(sim)	6.007	61	5230	0.110	ppbv#	76
91)	Trichlorotrifluoroetha...	6.266	101	7931	0.113	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.722	61	5283	0.105	ppbv#	82
93)	1,1-Dichloroethane(sim)	6.855	63	6453	0.102	ppbv	98
94)	Cis-1,2-Dichloroethene...	7.394	61	5062	0.106	ppbv	89
95)	Chloroform(sim)	7.579	83	8404	0.101	ppbv#	97
97)	1,2-dichloropropane(sim)	8.975	63	4959	0.104	ppbv	99
98)	Bromodichloromethane(sim)	9.093	83	9419	0.113	ppbv	95
99)	Trichloroethene(sim)	9.113	130	6129	0.101	ppbv	99
100)	1,4-Dioxane(sim)	9.136	88	2965	0.106	ppbv#	69
101)	cis-1,3-Dichloropropen...	9.592	75	7000	0.101	ppbv	98
102)	1,1,2-Trichloroethane(...	9.997	97	5594	0.104	ppbv	97
103)	Dibromochloromethane(sim)	10.416	129	9345	0.100	ppbv	96
104)	1,2-Dibromoethane(EDB)...	10.553	107	9038	0.102	ppbv	92
105)	Tetrachloroethene(sim)	10.796	166	8724	0.097	ppbv	99
107)	Bromoform(sim)	11.545	173	10250	0.100	ppbv	100
108)	m,p-Xylene(sim)	11.458	91	33174	0.213	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.719	83	11627	0.098	ppbv	99
112)	Benzyl chloride(sim)	12.809	91	15031	0.095	ppbv	95
113)	1,3-Dichlorobenzene(sim)	12.827	146	14272	0.095	ppbv	99
115)	sec-Butylbenzene(sim)	12.706	105	20631	0.101	ppbv	99
116)	4-Isopropyltoluene(sim)	12.961	119	26819	0.101	ppbv	99
117)	1,2-Dichlorobenzene(sim)	13.085	146	13732	0.100	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
Data File : 0413_09.D
Acq On : 13 Apr 2023 7:57 pm
Operator :
Client ID : ICAL 0.1
Lab ID : 0.10 ; to1503g
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 11:14:10 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:12:38 2023
Response via : Initial Calibration

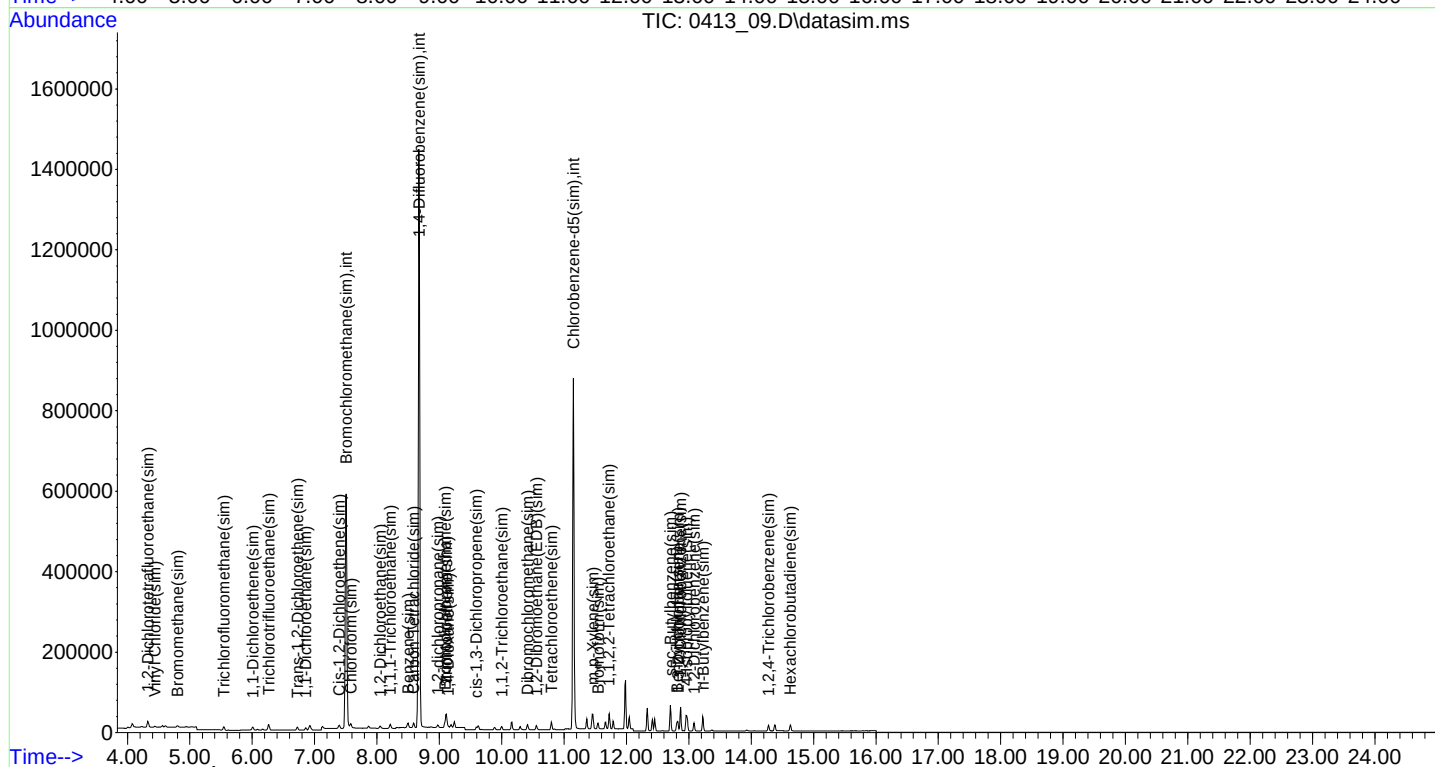
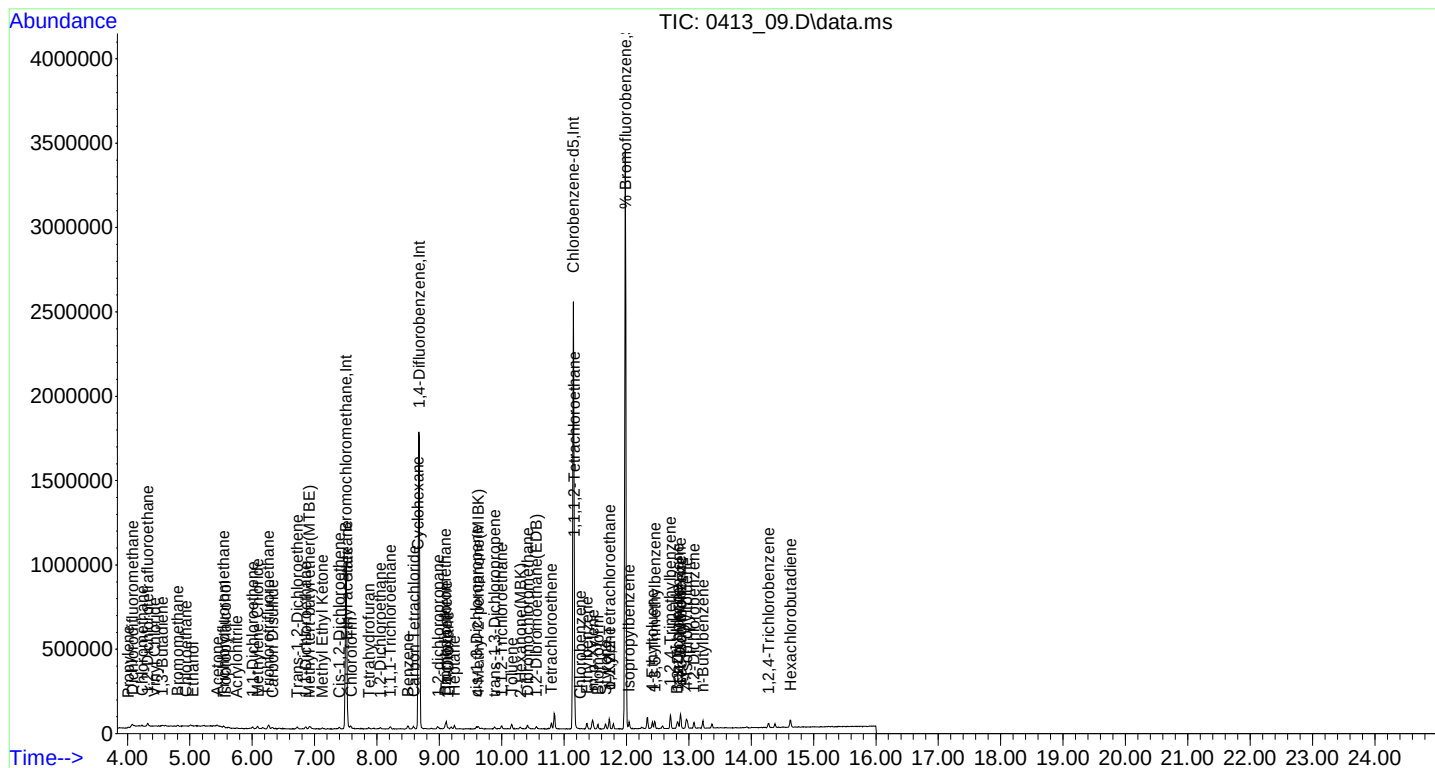
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.227	91	22047	0.103	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.278	180	9106	0.088	ppbv	98

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_09.D
 Acq On : 13 Apr 2023 7:57 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ; to1503q
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 14 11:14:10 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_10.D
 Acq On : 13 Apr 2023 8:33 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2 ; to1503g
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 11:20:03 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.505	130	405874	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.678	114	1484110	10.000	ng	0.00
54) Chlorobenzene-d5	11.147	82	703764	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	379896	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.678	114	1484110	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.147	82	703764	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.982 95 1013097 10.527 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 105.30%

Target Compounds						Qvalue
2) Propylene	4.016	41	4872	0.216	ppbv	95
3) Dichlorodifluoromethane	4.081	85	18169	0.214	ppbv#	94
4) Chloromethane	4.235	50	4830	0.209	ppbv	84
5) 1,2-Dichlorotetrafluor...	4.324	85	17055	0.203	ppbv	98
6) Vinyl Chloride	4.438	62	5928	0.200	ppbv	79
7) 1,3-Butadiene	4.560	54	4181	0.198	ppbv	95
8) Bromomethane	4.803	94	6898	0.209	ppbv#	94
9) Chloroethane	4.941	64	3807	0.255	ppbv	92
11) Ethanol	5.046	45	2064	0.264	ppbv#	90
12) Acetone	5.436	43	9433	0.230	ppbv#	77
13) Trichlorofluoromethane	5.547	101	16705	0.198	ppbv#	89
14) Isopropylalcohol	5.559	45	166	0.003	ppbv#	1
15) Acrylonitrile	5.755	53	4193	0.207	ppbv	95
16) 1,1-Dichloroethene	6.007	61	9544	0.199	ppbv	91
17) Methylene Chloride	6.085	49	6174	0.204	ppbv	85
20) Carbon Disulfide	6.317	76	18291	0.203	ppbv	99
21) Trichlorotrifluoroethane	6.263	101	14335	0.199	ppbv	95
22) Trans-1,2-Dichloroethene	6.722	61	10103	0.195	ppbv	98
23) 1,1-Dichloroethane	6.859	63	13098	0.202	ppbv	94
24) Methyl tert-butyl ethe...	6.918	73	18997	0.190	ppbv#	91
26) Methyl Ethyl Ketone	7.124	43	11241	0.173	ppbv#	93
27) Cis-1,2-Dichloroethene	7.394	61	9757	0.198	ppbv#	82
28) Hexane	7.513	57	11385	0.207	ppbv#	98
29) Chloroform	7.576	83	16396	0.206	ppbv	98
30) Ethyl acetate	7.521	61	3199	0.201	ppbv	89
31) Tetrahydrofuran	7.870	42	6830	0.189	ppbv	92
32) 1,2-Dichloroethane	8.052	62	8510	0.196	ppbv	91
33) 1,1,1-Trichloroethane	8.211	97	14950	0.192	ppbv	96
34) Benzene	8.496	78	25887	0.208	ppbv#	94
35) Carbon Tetrachloride	8.591	117	16351	0.194	ppbv	95
36) Cyclohexane	8.661	84	10567	0.215	ppbv#	77
38) 1,2-dichloropropane	8.981	63	9606	0.202	ppbv#	88
39) Bromodichloromethane	9.093	83	16211	0.197	ppbv	89
40) Trichloroethene	9.110	130	12542	0.200	ppbv	97
42) 1,4-Dioxane	9.136	88	5469	0.197	ppbv#	78
44) Heptane	9.240	43	13038	0.211	ppbv#	86
45) cis-1,3-Dichloropropene	9.596	75	13784	0.195	ppbv	94
46) 4-Methyl-2-pentanone(M...	9.624	43	16336	0.209	ppbv	97
47) trans-1,3-Dichloropropene	9.885	75	12390	0.194	ppbv	94
48) 1,1,2-Trichloroethane	9.997	97	10710	0.198	ppbv#	92
49) Toluene	10.159	91	33794	0.209	ppbv#	97
50) Dibromochloromethane	10.413	129	20375	0.197	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_10.D
 Acq On : 13 Apr 2023 8:33 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2 ; to1503g
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 11:20:03 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.293	43	14194	0.192	ppbv	95
52)	1,2-Dibromoethane(EDB)	10.554	107	17816	0.200	ppbv	95
53)	Tetrachloroethene	10.793	166	18312	0.202	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.163	131	13961	0.214	ppbv	99
56)	Chlorobenzene	11.178	112	27551	0.219	ppbv#	70
57)	Ethylbenzene	11.367	91	41008	0.209	ppbv	98
58)	m,p-Xylene	11.458	91	63250	0.426	ppbv	96
59)	Bromoform	11.542	173	21998	0.186	ppbv	98
60)	Styrene	11.663	104	25305	0.209	ppbv	97
61)	1,1,2,2-Tetrachloroethane	11.724	83	23694	0.212	ppbv	95
62)	o-Xylene	11.724	91	33056	0.214	ppbv	100
65)	Isopropylbenzene	12.042	105	45641	0.216	ppbv	98
67)	4-Ethyltoluene	12.414	105	49392	0.220	ppbv	98
68)	1,3,5-Trimethylbenzene	12.452	105	37831	0.207	ppbv	93
69)	1,2,4-Trimethylbenzene	12.703	105	39598	0.214	ppbv	99
71)	Benzyl chloride	12.809	91	30330	0.202	ppbv	96
72)	1,3-Dichlorobenzene	12.824	146	29784	0.215	ppbv	97
73)	1,4-Dichlorobenzene	12.862	146	30197	0.223	ppbv	98
74)	sec-Butylbenzene	12.870	105	56769	0.218	ppbv	99
75)	4-Isopropyltoluene	12.953	119	52728	0.213	ppbv	98
76)	1,2-Dichlorobenzene	13.083	146	27082	0.208	ppbv	99
77)	n-Butylbenzene	13.227	91	42539	0.206	ppbv	98
78)	1,2,4-Trichlorobenzene	14.275	180	18351	0.173	ppbv	96
80)	Hexachlorobutadiene	14.624	225	18257	0.184	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.324	85	17055	0.202	ppbv	98
83)	Vinyl Chloride(sim)	4.441	62	5742	0.195	ppbv	99
84)	Bromomethane(sim)	4.803	94	6898	0.205	ppbv#	94
85)	Trichlorofluoromethane...	5.544	101	16446	0.199	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.052	62	8510	0.201	ppbv	91
87)	1,1,1-Trichloroethane(...	8.214	97	15609	0.199	ppbv#	100
88)	Benzene(sim)	8.496	78	25887	0.189	ppbv#	93
89)	Carbon Tetrachloride(sim)	8.586	117	15634	0.199	ppbv	99
90)	1,1-Dichloroethene(sim)	6.007	61	9544	0.197	ppbv	91
91)	Trichlorotrifluoroetha...	6.260	101	13929	0.196	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.722	61	10103	0.198	ppbv	98
93)	1,1-Dichloroethane(sim)	6.855	63	12801	0.200	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.394	61	9757	0.200	ppbv#	83
95)	Chloroform(sim)	7.579	83	15833	0.188	ppbv	98
97)	1,2-dichloropropane(sim)	8.975	63	9367	0.193	ppbv	99
98)	Bromodichloromethane(sim)	9.093	83	16386	0.193	ppbv	89
99)	Trichloroethene(sim)	9.113	130	12001	0.194	ppbv	100
100)	1,4-Dioxane(sim)	9.136	88	5469	0.192	ppbv#	78
101)	cis-1,3-Dichloropropen...	9.592	75	13767	0.195	ppbv	99
102)	1,1,2-Trichloroethane(...	9.997	97	10710	0.196	ppbv	92
103)	Dibromochloromethane(sim)	10.416	129	18672	0.196	ppbv	98
104)	1,2-Dibromoethane(EDB)...	10.554	107	17720	0.196	ppbv	95
105)	Tetrachloroethene(sim)	10.796	166	16885	0.185	ppbv	100
107)	Bromoform(sim)	11.545	173	19957	0.193	ppbv	100
108)	m,p-Xylene(sim)	11.458	91	63540	0.403	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.719	83	23391	0.194	ppbv	100
112)	Benzyl chloride(sim)	12.809	91	30330	0.189	ppbv	96
113)	1,3-Dichlorobenzene(sim)	12.827	146	28537	0.188	ppbv	100
115)	sec-Butylbenzene(sim)	12.706	105	40661	0.196	ppbv	100
116)	4-Isopropyltoluene(sim)	12.953	119	52651	0.196	ppbv	99
117)	1,2-Dichlorobenzene(sim)	13.085	146	26958	0.194	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
Data File : 0413_10.D
Acq On : 13 Apr 2023 8:33 pm
Operator :
Client ID : ICAL 0.2
Lab ID : 0.2 ; to1503g
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 11:20:03 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:12:38 2023
Response via : Initial Calibration

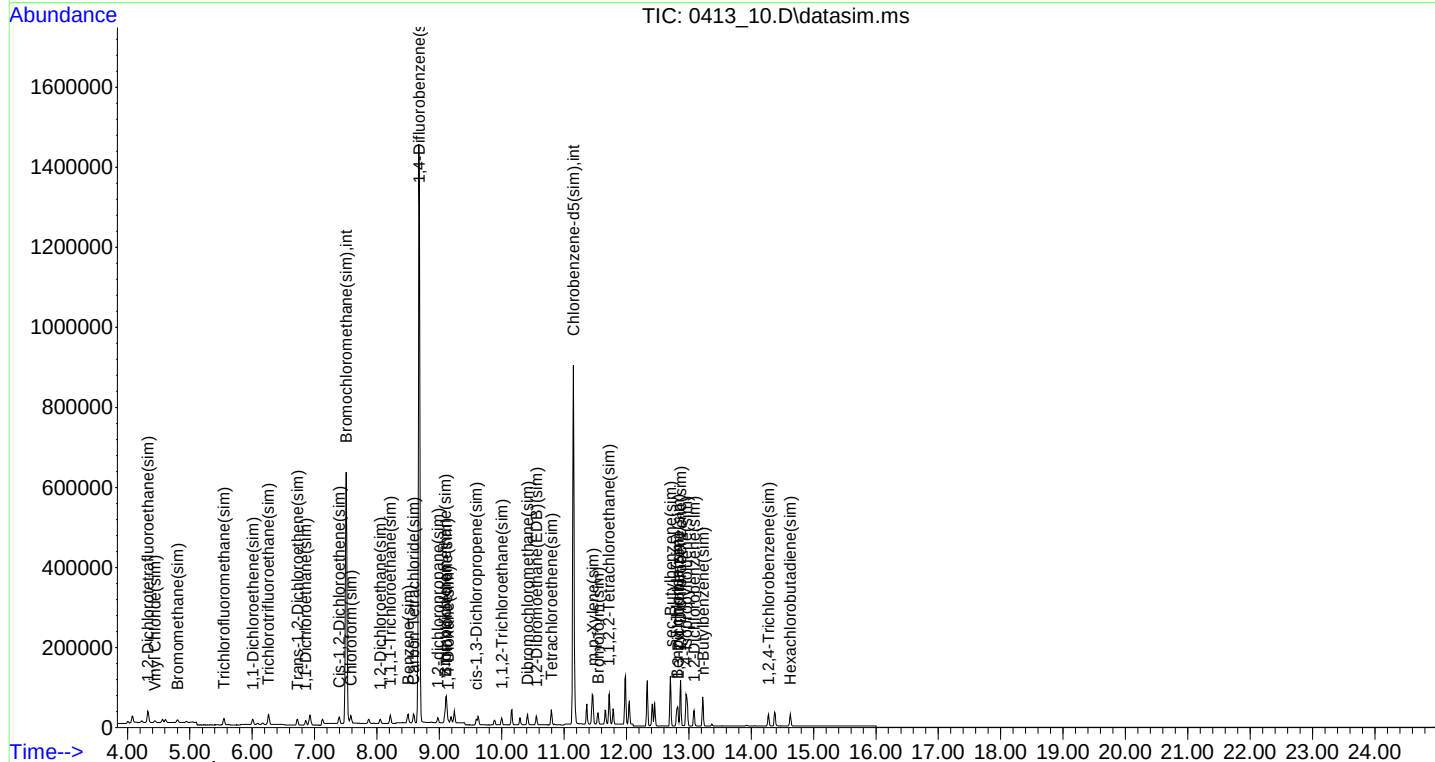
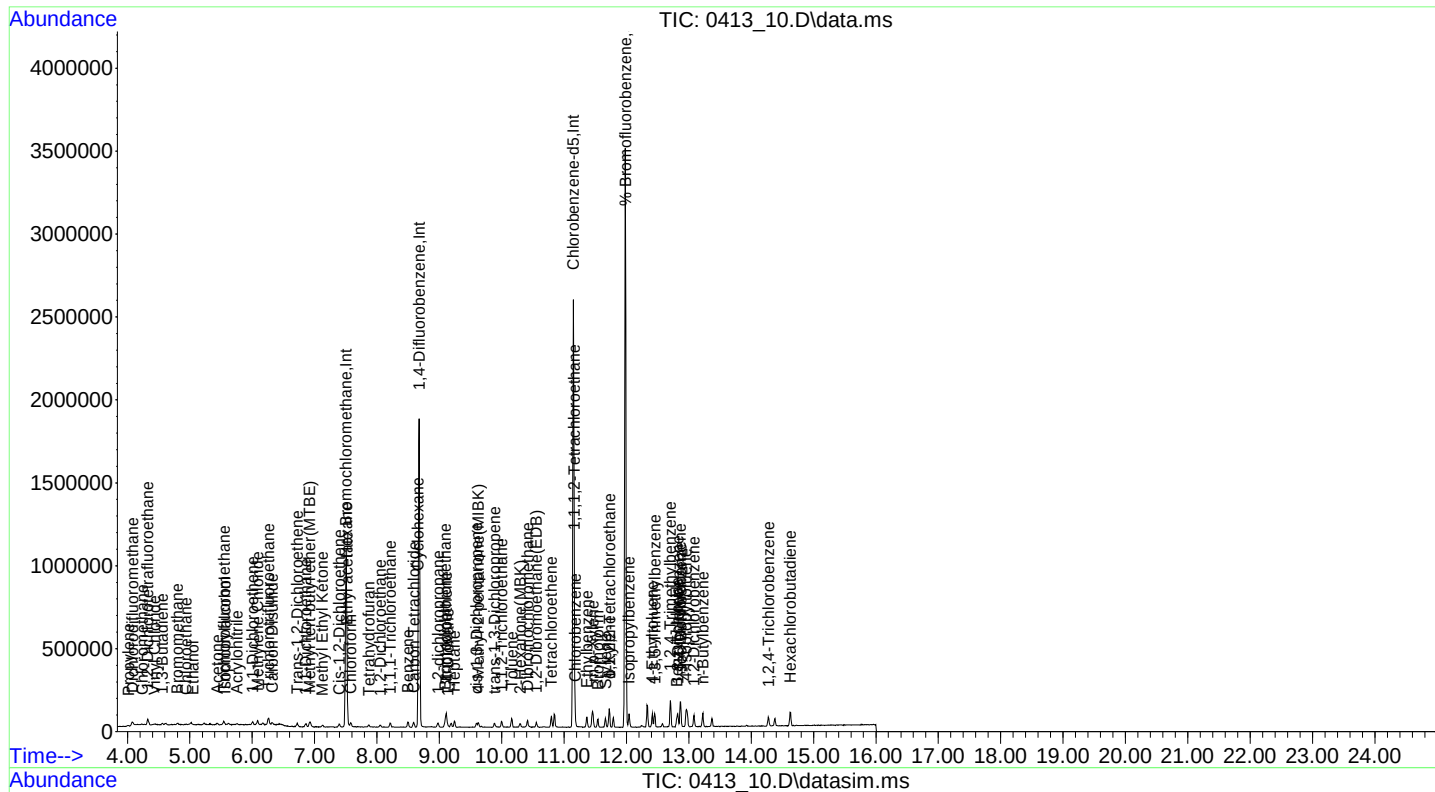
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.227	91	42713	0.197	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.278	180	18108	0.173	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_10.D
 Acq On : 13 Apr 2023 8:33 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2 ; to1503q
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 14 11:20:03 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_11.D
 Acq On : 13 Apr 2023 9:11 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.5 ; to1503g
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 14 11:20:11 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.505	130	410795	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.678	114	1508873	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	716368	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	387617	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.678	114	1508873	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	716368	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.982 95 1031498 10.530 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 105.30%

Target Compounds						Qvalue
2) Propylene	4.016	41	11289	0.495	ppbv	93
3) Dichlorodifluoromethane	4.089	85	43177	0.502	ppbv#	97
4) Chloromethane	4.244	50	11283	0.484	ppbv	88
5) 1,2-Dichlorotetrafluor...	4.333	85	42203	0.497	ppbv	97
6) Vinyl Chloride	4.446	62	14757	0.492	ppbv	96
7) 1,3-Butadiene	4.576	54	10980	0.514	ppbv	92
8) Bromomethane	4.811	94	16502	0.495	ppbv	99
9) Chloroethane	4.949	64	7931	0.525	ppbv	96
11) Ethanol	5.055	45	3716	0.470	ppbv#	84
12) Acetone	5.437	43	20943	0.504	ppbv	96
13) Trichlorofluoromethane	5.553	101	41757	0.490	ppbv	98
14) Isopropylalcohol	5.621	45	24173	0.492	ppbv#	89
15) Acrylonitrile	5.762	53	9928	0.484	ppbv	86
16) 1,1-Dichloroethene	6.013	61	23817	0.490	ppbv	100
17) Methylene Chloride	6.091	49	14661	0.479	ppbv	91
20) Carbon Disulfide	6.323	76	44127	0.484	ppbv	99
21) Trichlorotrifluoroethane	6.263	101	36789	0.506	ppbv	98
22) Trans-1,2-Dichloroethene	6.728	61	25243	0.481	ppbv	92
23) 1,1-Dichloroethane	6.859	63	32265	0.491	ppbv	97
24) Methyl tert-butyl ethe...	6.918	73	50541	0.500	ppbv	96
26) Methyl Ethyl Ketone	7.125	43	29104	0.442	ppbv	97
27) Cis-1,2-Dichloroethene	7.394	61	24464	0.490	ppbv	98
28) Hexane	7.513	57	28007	0.503	ppbv	96
29) Chloroform	7.585	83	39622	0.492	ppbv	98
30) Ethyl acetate	7.521	61	7700	0.478	ppbv	89
31) Tetrahydrofuran	7.870	42	18733	0.511	ppbv	98
32) 1,2-Dichloroethane	8.052	62	21306	0.485	ppbv	98
33) 1,1,1-Trichloroethane	8.219	97	39415	0.500	ppbv	98
34) Benzene	8.496	78	62072	0.494	ppbv	99
35) Carbon Tetrachloride	8.592	117	42576	0.500	ppbv	99
36) Cyclohexane	8.669	84	24977	0.502	ppbv#	82
38) 1,2-dichloropropane	8.981	63	23692	0.489	ppbv	94
39) Bromodichloromethane	9.093	83	40474	0.483	ppbv	96
40) Trichloroethene	9.111	130	31980	0.501	ppbv	99
42) 1,4-Dioxane	9.137	88	13919	0.493	ppbv	93
44) Heptane	9.240	43	31607	0.503	ppbv	99
45) cis-1,3-Dichloropropene	9.596	75	34642	0.483	ppbv	98
46) 4-Methyl-2-pentanone(M...	9.618	43	39739	0.499	ppbv	99
47) trans-1,3-Dichloropropene	9.885	75	31302	0.483	ppbv	96
48) 1,1,2-Trichloroethane	9.998	97	27954	0.509	ppbv	98
49) Toluene	10.160	91	81000	0.493	ppbv	97
50) Dibromochloromethane	10.413	129	50279	0.479	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_11.D
 Acq On : 13 Apr 2023 9:11 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.5 ; to1503g
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 14 11:20:11 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.293	43	35918	0.477	ppbv	97
52)	1,2-Dibromoethane(EDB)	10.554	107	44267	0.488	ppbv	99
53)	Tetrachloroethene	10.793	166	45567	0.493	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.163	131	33806	0.508	ppbv	99
56)	Chlorobenzene	11.178	112	67522	0.526	ppbv	88
57)	Ethylbenzene	11.360	91	101806	0.511	ppbv	99
58)	m,p-Xylene	11.459	91	159654	1.055	ppbv	98
59)	Bromoform	11.542	173	55070	0.457	ppbv	99
60)	Styrene	11.663	104	64138	0.519	ppbv	99
61)	1,1,2,2-Tetrachloroethane	11.724	83	60260	0.530	ppbv	98
62)	o-Xylene	11.724	91	82254	0.524	ppbv	99
65)	Isopropylbenzene	12.042	105	112058	0.520	ppbv	99
67)	4-Ethyltoluene	12.414	105	116311	0.510	ppbv	99
68)	1,3,5-Trimethylbenzene	12.452	105	100496	0.541	ppbv	98
69)	1,2,4-Trimethylbenzene	12.703	105	99310	0.527	ppbv	99
71)	Benzyl chloride	12.802	91	77407	0.506	ppbv	99
72)	1,3-Dichlorobenzene	12.825	146	69968	0.495	ppbv	99
73)	1,4-Dichlorobenzene	12.863	146	75404	0.548	ppbv	99
74)	sec-Butylbenzene	12.870	105	141334	0.532	ppbv	99
75)	4-Isopropyltoluene	12.954	119	131547	0.522	ppbv	99
76)	1,2-Dichlorobenzene	13.083	146	67487	0.508	ppbv	99
77)	n-Butylbenzene	13.219	91	108079	0.514	ppbv	99
78)	1,2,4-Trichlorobenzene	14.275	180	46013	0.426	ppbv	100
80)	Hexachlorobutadiene	14.624	225	44094	0.436	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.333	85	41906	0.486	ppbv	97
83)	Vinyl Chloride(sim)	4.449	62	14596	0.486	ppbv	100
84)	Bromomethane(sim)	4.811	94	16502	0.481	ppbv	99
85)	Trichlorofluoromethane...	5.550	101	41315	0.489	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.052	62	21306	0.493	ppbv	98
87)	1,1,1-Trichloroethane(...	8.214	97	38815	0.484	ppbv#	97
88)	Benzene(sim)	8.496	78	62072	0.444	ppbv	98
89)	Carbon Tetrachloride(sim)	8.586	117	39813	0.495	ppbv	99
90)	1,1-Dichloroethene(sim)	6.013	61	23817	0.482	ppbv	100
91)	Trichlorotrifluoroetha...	6.266	101	35016	0.482	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.728	61	25243	0.486	ppbv	93
93)	1,1-Dichloroethane(sim)	6.862	63	32061	0.490	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.394	61	24464	0.492	ppbv	100
95)	Chloroform(sim)	7.587	83	39215	0.456	ppbv	99
97)	1,2-dichloropropane(sim)	8.975	63	23646	0.479	ppbv	99
98)	Bromodichloromethane(sim)	9.093	83	40785	0.472	ppbv	97
99)	Trichloroethene(sim)	9.114	130	30558	0.486	ppbv	100
100)	1,4-Dioxane(sim)	9.137	88	13919	0.482	ppbv	93
101)	cis-1,3-Dichloropropen...	9.592	75	35444	0.494	ppbv	100
102)	1,1,2-Trichloroethane(...	9.998	97	27954	0.502	ppbv	98
103)	Dibromochloromethane(sim)	10.416	129	47318	0.488	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.554	107	44480	0.484	ppbv	99
105)	Tetrachloroethene(sim)	10.796	166	42616	0.459	ppbv	100
107)	Bromoform(sim)	11.537	173	50089	0.475	ppbv	100
108)	m,p-Xylene(sim)	11.459	91	160287	0.998	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.719	83	58554	0.477	ppbv	99
112)	Benzyl chloride(sim)	12.802	91	77407	0.473	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.820	146	73367	0.475	ppbv	100
115)	sec-Butylbenzene(sim)	12.706	105	102582	0.487	ppbv	100
116)	4-Isopropyltoluene(sim)	12.954	119	132211	0.483	ppbv	99
117)	1,2-Dichlorobenzene(sim)	13.078	146	67735	0.478	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_11.D
 Acq On : 13 Apr 2023 9:11 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.5 ; to1503g
 ALS Vial : 8 Sample Multiplier: 1

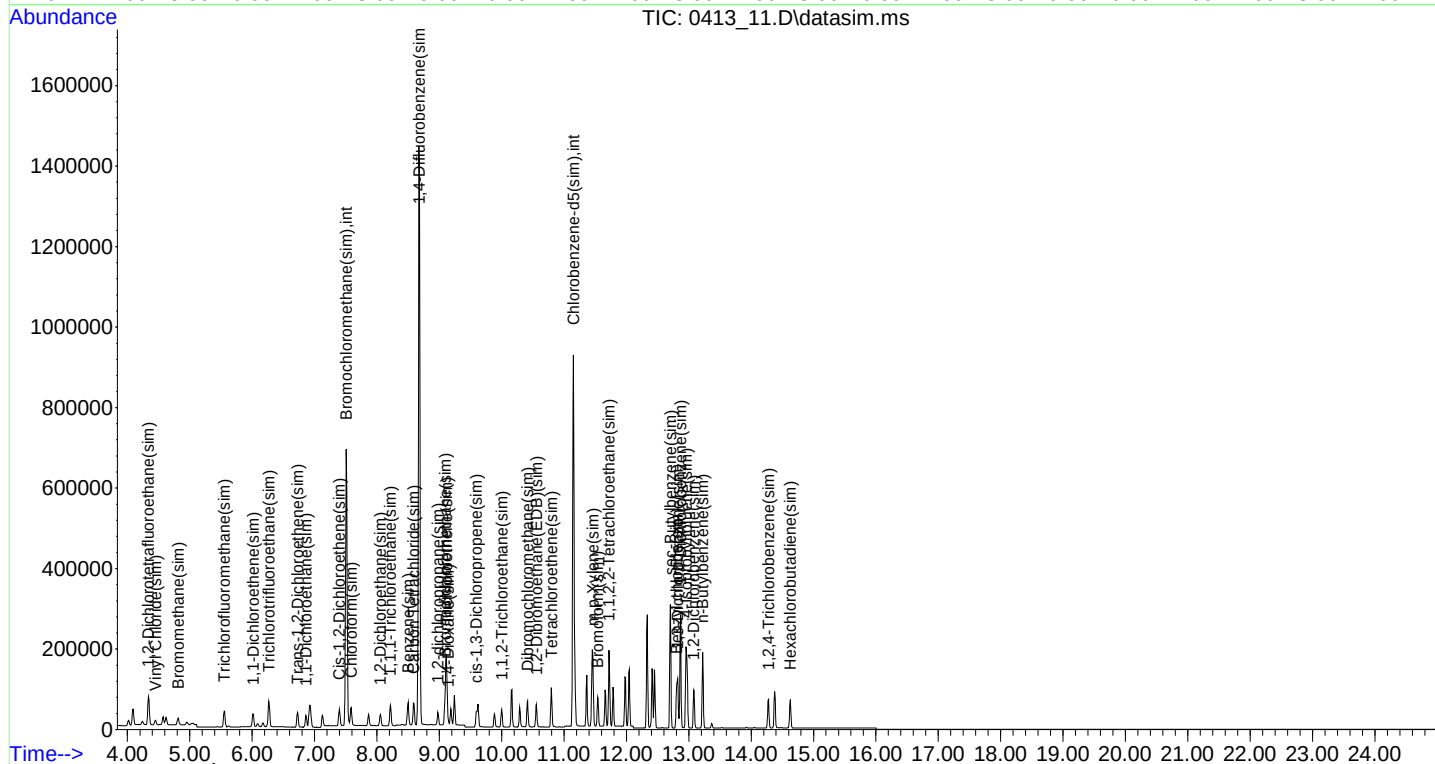
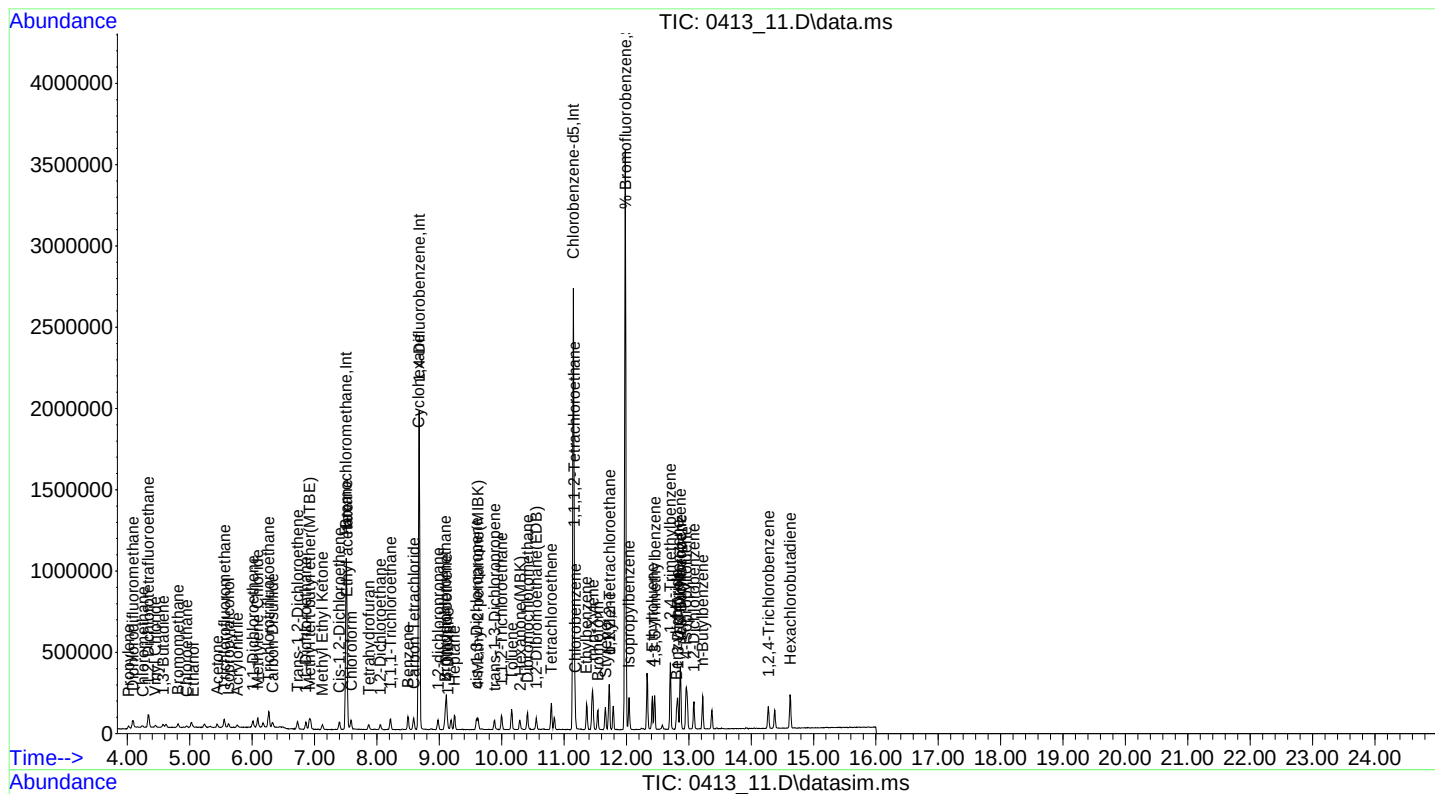
Quant Time: Apr 14 11:20:11 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118] n-Butylbenzene(sim)	13.219	91	108079	0.489	ppbv	99
119] 1,2,4-Trichlorobenzene...	14.278	180	45374	0.427	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

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Data Path   : H:\AIR2023\CHEM39\04APR\13\  
Data File  : 0413_11.D  
Acq On     : 13 Apr 2023   9:11 pm  
Operator   :  
Client ID  : ICAL 0.5  
Lab ID     : 0.5 ; to1503q  
ALS Vial   : 8   Sample Multiplier: 1
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Quant Time: Apr 14 11:20:11 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:12:38 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_12.D
 Acq On : 13 Apr 2023 9:49 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ; to1503r
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 14 11:14:39 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.505	130	410507	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.669	114	1500436	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	723763	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	384582	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.669	114	1500436	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	723763	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.982 95 1033101 10.439 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 104.40%

Target Compounds						Qvalue
2) Propylene	4.008	41	52511	2.306	ppbv	98
3) Dichlorodifluoromethane	4.081	85	200476	2.332	ppbv	100
4) Chloromethane	4.235	50	54613	2.342	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.325	85	200548	2.364	ppbv	99
6) Vinyl Chloride	4.438	62	70594	2.356	ppbv	98
7) 1,3-Butadiene	4.568	54	48304	2.261	ppbv	93
8) Bromomethane	4.803	94	76899	2.307	ppbv	99
9) Chloroethane	4.949	64	33258	2.201	ppbv	99
11) Ethanol	5.038	45	17848	2.261	ppbv	100
12) Acetone	5.424	43	94955	2.288	ppbv	99
13) Trichlorofluoromethane	5.547	101	201078	2.360	ppbv	99
14) Isopropylalcohol	5.602	45	113073	2.304	ppbv	98
15) Acrylonitrile	5.749	53	46384	2.263	ppbv	99
16) 1,1-Dichloroethene	6.007	61	115197	2.369	ppbv	99
17) Methylene Chloride	6.085	49	70863	2.315	ppbv	99
20) Carbon Disulfide	6.323	76	211037	2.319	ppbv	100
21) Trichlorotrifluoroethane	6.263	101	172128	2.368	ppbv	99
22) Trans-1,2-Dichloroethene	6.722	61	123255	2.351	ppbv	99
23) 1,1-Dichloroethane	6.859	63	154030	2.347	ppbv	100
24) Methyl tert-butyl ethe...	6.900	73	242078	2.398	ppbv	99
26) Methyl Ethyl Ketone	7.109	43	150622	2.287	ppbv	99
27) Cis-1,2-Dichloroethene	7.394	61	117004	2.345	ppbv	100
28) Hexane	7.513	57	131463	2.364	ppbv	99
29) Chloroform	7.577	83	190429	2.368	ppbv	100
30) Ethyl acetate	7.513	61	38542	2.395	ppbv	98
31) Tetrahydrofuran	7.854	42	86065	2.350	ppbv	98
32) 1,2-Dichloroethane	8.052	62	103541	2.358	ppbv	100
33) 1,1,1-Trichloroethane	8.211	97	188006	2.385	ppbv	99
34) Benzene	8.496	78	296656	2.361	ppbv	100
35) Carbon Tetrachloride	8.583	117	200751	2.359	ppbv	100
36) Cyclohexane	8.661	84	116844	2.352	ppbv	98
38) 1,2-dichloropropane	8.972	63	115277	2.393	ppbv	99
39) Bromodichloromethane	9.085	83	202984	2.438	ppbv	99
40) Trichloroethene	9.111	130	156174	2.462	ppbv	99
42) 1,4-Dioxane	9.119	88	67701	2.412	ppbv	96
44) Heptane	9.240	43	150240	2.403	ppbv	99
45) cis-1,3-Dichloropropene	9.589	75	173211	2.429	ppbv	99
46) 4-Methyl-2-pentanone(M...	9.610	43	188877	2.386	ppbv	99
47) trans-1,3-Dichloropropene	9.878	75	153505	2.382	ppbv	99
48) 1,1,2-Trichloroethane	9.998	97	129187	2.367	ppbv	99
49) Toluene	10.159	91	393847	2.409	ppbv	100
50) Dibromochloromethane	10.406	129	249154	2.386	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_12.D
 Acq On : 13 Apr 2023 9:49 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ; to1503r
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 14 11:14:39 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.279	43	181586	2.424	ppbv	100
52)	1,2-Dibromoethane(EDB)	10.554	107	215076	2.383	ppbv	100
53)	Tetrachloroethene	10.793	166	219234	2.387	ppbv	100
55)	1,1,1,2-Tetrachloroethane	11.155	131	162634	2.420	ppbv	100
56)	Chlorobenzene	11.170	112	314787	2.429	ppbv	98
57)	Ethylbenzene	11.360	91	486216	2.415	ppbv	100
58)	m,p-Xylene	11.451	91	759891	4.971	ppbv	100
59)	Bromoform	11.534	173	273066	2.252	ppbv	100
60)	Styrene	11.656	104	302659	2.426	ppbv	100
61)	1,1,2,2-Tetrachloroethane	11.716	83	272962	2.376	ppbv	98
62)	o-Xylene	11.724	91	384516	2.425	ppbv	100
65)	Isopropylbenzene	12.042	105	535382	2.459	ppbv	100
67)	4-Ethyltoluene	12.414	105	548818	2.380	ppbv	100
68)	1,3,5-Trimethylbenzene	12.452	105	451284	2.406	ppbv	99
69)	1,2,4-Trimethylbenzene	12.703	105	453713	2.385	ppbv	99
71)	Benzyl chloride	12.802	91	348977	2.259	ppbv	99
72)	1,3-Dichlorobenzene	12.824	146	322346	2.257	ppbv	100
73)	1,4-Dichlorobenzene	12.862	146	314118	2.261	ppbv	100
74)	sec-Butylbenzene	12.870	105	662053	2.467	ppbv	100
75)	4-Isopropyltoluene	12.954	119	621053	2.441	ppbv	99
76)	1,2-Dichlorobenzene	13.083	146	293652	2.189	ppbv	100
77)	n-Butylbenzene	13.219	91	509784	2.398	ppbv	100
78)	1,2,4-Trichlorobenzene	14.275	180	231761	2.122	ppbv	99
80)	Hexachlorobutadiene	14.624	225	213554	2.090	ppbv	100
82)	1,2-Dichlorotetrafluor...	4.325	85	200548	2.345	ppbv	99
83)	Vinyl Chloride(sim)	4.441	62	70365	2.360	ppbv	100
84)	Bromomethane(sim)	4.803	94	76899	2.259	ppbv	99
85)	Trichlorofluoromethane...	5.544	101	201512	2.405	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.052	62	103541	2.413	ppbv	100
87)	1,1,1-Trichloroethane(...	8.214	97	192222	2.415	ppbv#	100
88)	Benzene(sim)	8.496	78	296656	2.141	ppbv	100
89)	Carbon Tetrachloride(sim)	8.586	117	194728	2.443	ppbv	100
90)	1,1-Dichloroethene(sim)	6.007	61	115197	2.350	ppbv	99
91)	Trichlorotrifluoroetha...	6.260	101	170158	2.360	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.722	61	123255	2.391	ppbv	99
93)	1,1-Dichloroethane(sim)	6.856	63	156991	2.417	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.394	61	117004	2.374	ppbv	99
95)	Chloroform(sim)	7.579	83	189371	2.219	ppbv	100
97)	1,2-dichloropropane(sim)	8.975	63	116049	2.363	ppbv	100
98)	Bromodichloromethane(sim)	9.085	83	202984	2.365	ppbv	99
99)	Trichloroethene(sim)	9.105	130	149285	2.387	ppbv	100
100)	1,4-Dioxane(sim)	9.119	88	67701	2.356	ppbv	96
101)	cis-1,3-Dichloropropen...	9.592	75	175313	2.459	ppbv	100
102)	1,1,2-Trichloroethane(...	9.998	97	129273	2.335	ppbv	99
103)	Dibromochloromethane(sim)	10.409	129	235080	2.439	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.554	107	215076	2.353	ppbv	100
105)	Tetrachloroethene(sim)	10.796	166	206231	2.234	ppbv	100
107)	Bromoform(sim)	11.537	173	247004	2.318	ppbv	100
108)	m,p-Xylene(sim)	11.451	91	763008	4.704	ppbv	100
109)	1,1,2,2-Tetrachloroeth...	11.719	83	270913	2.187	ppbv	100
112)	Benzyl chloride(sim)	12.802	91	348977	2.112	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.820	146	334850	2.144	ppbv	100
115)	sec-Butylbenzene(sim)	12.698	105	469112	2.203	ppbv	99
116)	4-Isopropyltoluene(sim)	12.954	119	619631	2.241	ppbv	99
117)	1,2-Dichlorobenzene(sim)	13.078	146	295977	2.069	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
Data File : 0413_12.D
Acq On : 13 Apr 2023 9:49 pm
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5 ; to1503r
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 14 11:14:39 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:12:38 2023
Response via : Initial Calibration

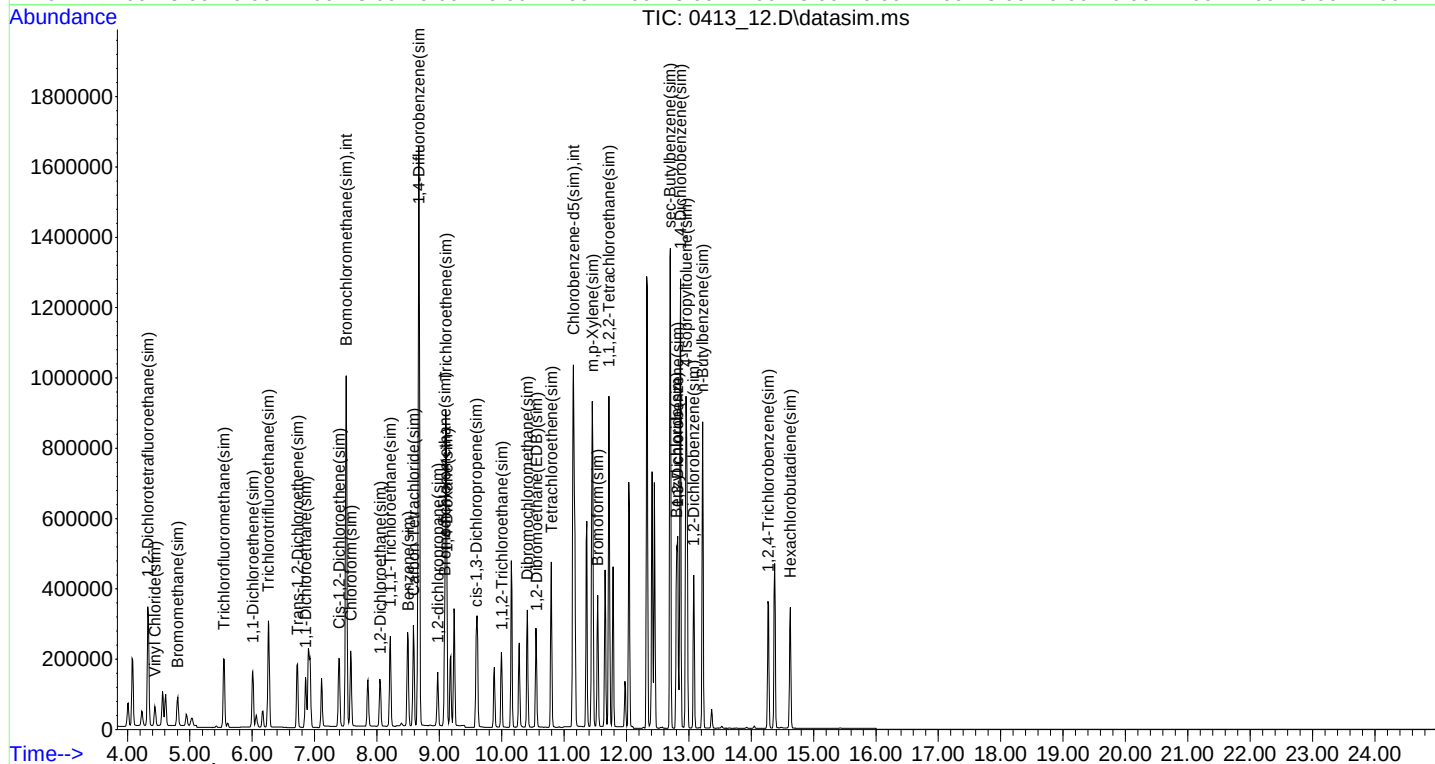
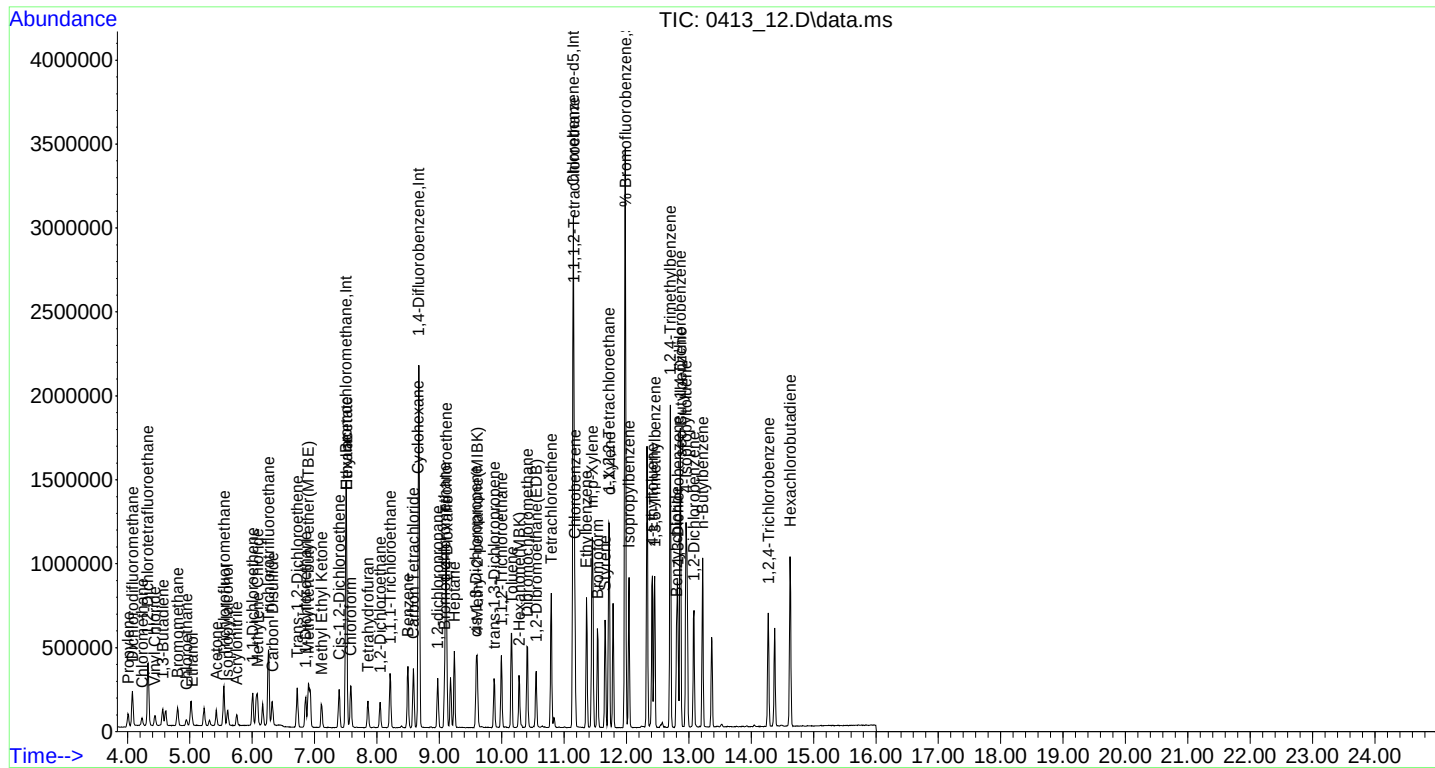
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.219	91	509784	2.285	ppbv	100
119]	1,2,4-Trichlorobenzene...	14.270	180	228588	2.127	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_12.D
 Acq On : 13 Apr 2023 9:49 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ; to1503r
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 14 11:14:39 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Apr 14 11:12:38 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_13.D
 Acq On : 13 Apr 2023 10:25 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 : to1503s
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 14 11:10:18 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 12:46:48 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.505	130	408228	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.669	114	1502456	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	731396	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	383590	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.669	114	1502456	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	731831	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.974 95 1028773 10.404 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 104.00%

Target Compounds						Qvalue
2) Propylene	4.008	41	113032	4.991	ppbv	97
3) Dichlorodifluoromethane	4.081	85	434091	5.077	ppbv	99
4) Chloromethane	4.235	50	116386	5.019	ppbv	97
5) 1,2-Dichlorotetrafluor...	4.333	85	432776	5.130	ppbv	89
6) Vinyl Chloride	4.438	62	151130	5.072	ppbv	99
7) 1,3-Butadiene	4.568	54	108072	5.087	ppbv	98
8) Bromomethane	4.803	94	165321	4.987	ppbv	97
9) Chloroethane	4.949	64	71836	4.782	ppbv	99
11) Ethanol	5.038	45	38541	4.909	ppbv	97
12) Acetone	5.418	43	199704	4.839	ppbv	96
13) Trichlorofluoromethane	5.547	101	434179	5.125	ppbv	98
14) Isopropylalcohol	5.596	45	251181	5.147	ppbv	94
15) Acrylonitrile	5.749	53	102531	5.030	ppbv	98
16) 1,1-Dichloroethene	6.007	61	249095	5.152	ppbv	90
17) Methylene Chloride	6.085	49	155767	5.116	ppbv	90
20) Carbon Disulfide	6.317	76	458831	5.069	ppbv	100
21) Trichlorotrifluoroethane	6.257	101	370432	5.125	ppbv	93
22) Trans-1,2-Dichloroethene	6.722	61	269610	5.171	ppbv	94
23) 1,1-Dichloroethane	6.859	63	332854	5.099	ppbv	99
24) Methyl tert-butyl ethe...	6.894	73	518583	5.166	ppbv	97
26) Methyl Ethyl Ketone	7.103	43	344623	5.262	ppbv	95
27) Cis-1,2-Dichloroethene	7.394	61	254158	5.122	ppbv	93
28) Hexane	7.513	57	283097	5.120	ppbv	95
29) Chloroform	7.577	83	408261	5.105	ppbv	99
30) Ethyl acetate	7.505	61	79978	4.997	ppbv	96
31) Tetrahydrofuran	7.846	42	184930	5.079	ppbv	96
32) 1,2-Dichloroethane	8.052	62	223149	5.111	ppbv	97
33) 1,1,1-Trichloroethane	8.211	97	402143	5.129	ppbv	96
34) Benzene	8.496	78	637708	5.103	ppbv	99
35) Carbon Tetrachloride	8.583	117	434515	5.133	ppbv	98
36) Cyclohexane	8.661	84	246356	4.987	ppbv	98
38) 1,2-dichloropropane	8.972	63	249907	5.181	ppbv	97
39) Bromodichloromethane	9.085	83	434332	5.209	ppbv	99
40) Trichloroethene	9.111	130	334560	5.268	ppbv	98
42) 1,4-Dioxane	9.111	88	149695	5.326	ppbv	93
44) Heptane	9.240	43	320830	5.125	ppbv	95
45) cis-1,3-Dichloropropene	9.589	75	371949	5.210	ppbv	97
46) 4-Methyl-2-pentanone(M...	9.603	43	407708	5.144	ppbv	98
47) trans-1,3-Dichloropropene	9.878	75	330911	5.128	ppbv	99
48) 1,1,2-Trichloroethane	9.998	97	282857	5.175	ppbv	99
49) Toluene	10.152	91	848140	5.181	ppbv	99
50) Dibromochloromethane	10.406	129	547112	5.232	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_13.D
 Acq On : 13 Apr 2023 10:25 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 : to1503s
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 14 11:10:18 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 12:46:48 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.272	43	391742	5.223	ppbv	99
52)	1,2-Dibromoethane(EDB)	10.547	107	469062	5.191	ppbv	100
53)	Tetrachloroethene	10.793	166	480257	5.221	ppbv	98
55)	1,1,1,2-Tetrachloroethane	11.155	131	360624	5.310	ppbv	99
56)	Chlorobenzene	11.170	112	683645	5.220	ppbv	97
57)	Ethylbenzene	11.360	91	1057502	5.198	ppbv	97
58)	m,p-Xylene	11.451	91	1664624	10.776	ppbv	96
59)	Bromoform	11.534	173	604364	7.138	ppbv	99
60)	Styrene	11.656	104	662679	5.256	ppbv	97
61)	1,1,2,2-Tetrachloroethane	11.716	83	617880	5.323	ppbv	99
62)	o-Xylene	11.716	91	838788	5.235	ppbv	98
65)	Isopropylbenzene	12.042	105	1171536	5.324	ppbv	100
67)	4-Ethyltoluene	12.407	105	1250731	5.367	ppbv	98
68)	1,3,5-Trimethylbenzene	12.445	105	1013436	5.346	ppbv	97
69)	1,2,4-Trimethylbenzene	12.703	105	1050250	5.462	ppbv	98
71)	Benzyl chloride	12.802	91	861934	5.521	ppbv	98
72)	1,3-Dichlorobenzene	12.817	146	794480	5.506	ppbv	98
73)	1,4-Dichlorobenzene	12.862	146	748793	5.333	ppbv	98
74)	sec-Butylbenzene	12.862	105	1462986	5.394	ppbv	100
75)	4-Isopropyltoluene	12.954	119	1392258	5.416	ppbv	99
76)	1,2-Dichlorobenzene	13.075	146	754187	5.564	ppbv	98
77)	n-Butylbenzene	13.219	91	1177868	5.483	ppbv	98
78)	1,2,4-Trichlorobenzene	14.267	180	627684	5.688	ppbv	98
80)	Hexachlorobutadiene	14.624	225	606075	5.869	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.333	85	432841	5.075	ppbv	89
83)	Vinyl Chloride(sim)	4.441	62	153081	5.148	ppbv	99
84)	Bromomethane(sim)	4.803	94	165321	4.870	ppbv	97
85)	Trichlorofluoromethane...	5.544	101	434451	5.198	ppbv#	99
86)	1,2-Dichloroethane(sim)	8.052	62	223149	5.214	ppbv	97
87)	1,1,1-Trichloroethane(...	8.214	97	416109	5.242	ppbv#	97
88)	Benzene(sim)	8.496	78	637708	4.614	ppbv	99
89)	Carbon Tetrachloride(sim)	8.586	117	421557	5.302	ppbv	99
90)	1,1-Dichloroethene(sim)	6.007	61	249095	5.096	ppbv	90
91)	Trichlorotrifluoroetha...	6.260	101	366211	5.092	ppbv#	96
92)	Trans-1,2-Dichloroethe...	6.722	61	269610	5.244	ppbv	94
93)	1,1-Dichloroethane(sim)	6.856	63	339030	5.234	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.394	61	254158	5.170	ppbv	93
95)	Chloroform(sim)	7.579	83	407944	4.793	ppbv	99
97)	1,2-dichloropropane(sim)	8.975	63	251947	5.123	ppbv	96
98)	Bromodichloromethane(sim)	9.085	83	434609	5.056	ppbv	99
99)	Trichloroethene(sim)	9.105	130	320794	5.123	ppbv	97
100)	1,4-Dioxane(sim)	9.111	88	149695	5.202	ppbv	93
101)	cis-1,3-Dichloropropen...	9.592	75	380601	5.332	ppbv	98
102)	1,1,2-Trichloroethane(...	9.998	97	282857	5.103	ppbv	99
103)	Dibromochloromethane(sim)	10.409	129	514226	5.328	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.547	107	469045	5.125	ppbv	99
105)	Tetrachloroethene(sim)	10.796	166	449806	4.867	ppbv	99
107)	Bromoform(sim)	11.537	173	548650	5.093	ppbv	100
108)	m,p-Xylene(sim)	11.451	91	1667666	10.167	ppbv	97
109)	1,1,2,2-Tetrachloroeth...	11.719	83	609202	4.863	ppbv	99
112)	Benzyl chloride(sim)	12.802	91	861934	5.160	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.820	146	826183	5.232	ppbv	98
115)	sec-Butylbenzene(sim)	12.698	105	1090746	5.065	ppbv	99
116)	4-Isopropyltoluene(sim)	12.954	119	1392315	4.979	ppbv	99
117)	1,2-Dichlorobenzene(sim)	13.078	146	764658	5.287	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_13.D
 Acq On : 13 Apr 2023 10:25 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 ; to1503s
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 14 11:10:18 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 11 12:46:48 2023
 Response via : Initial Calibration

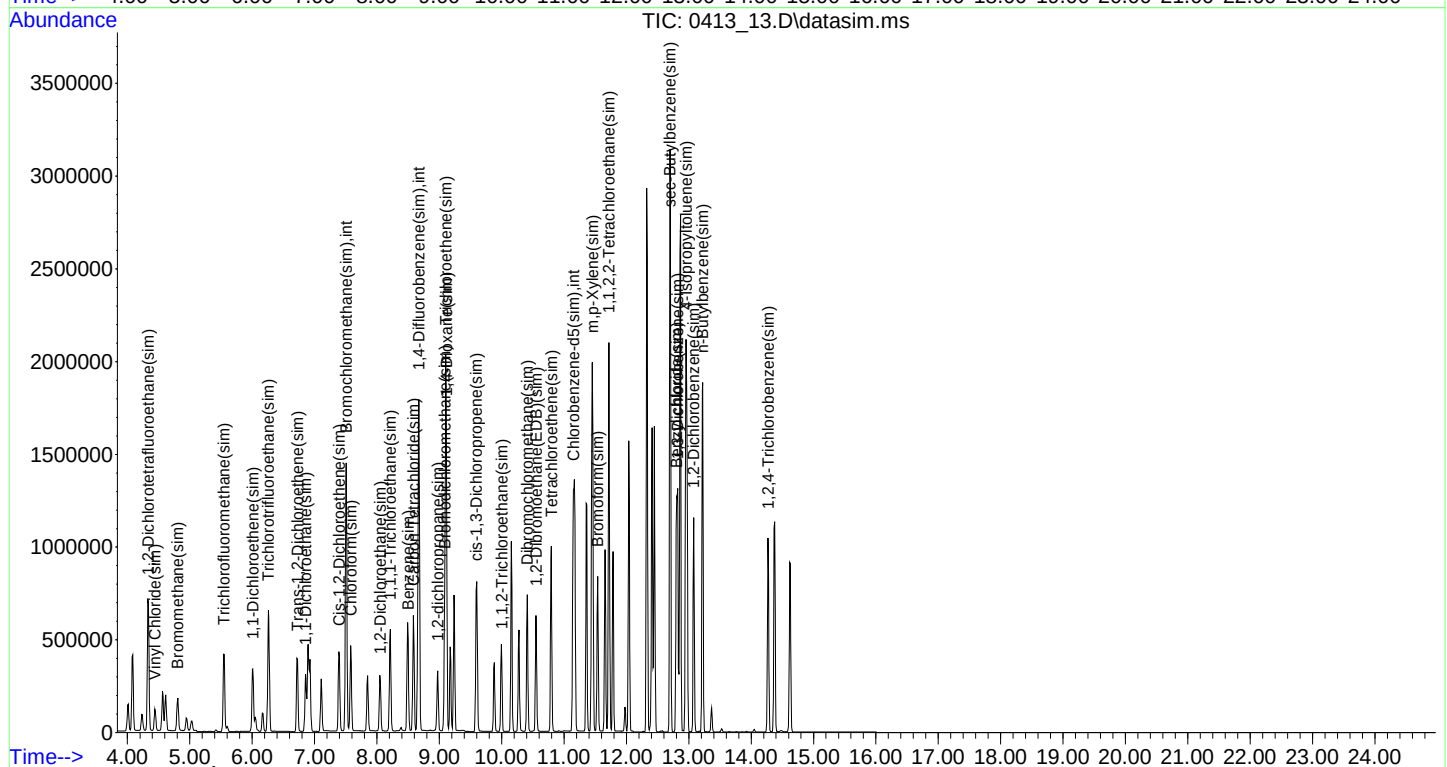
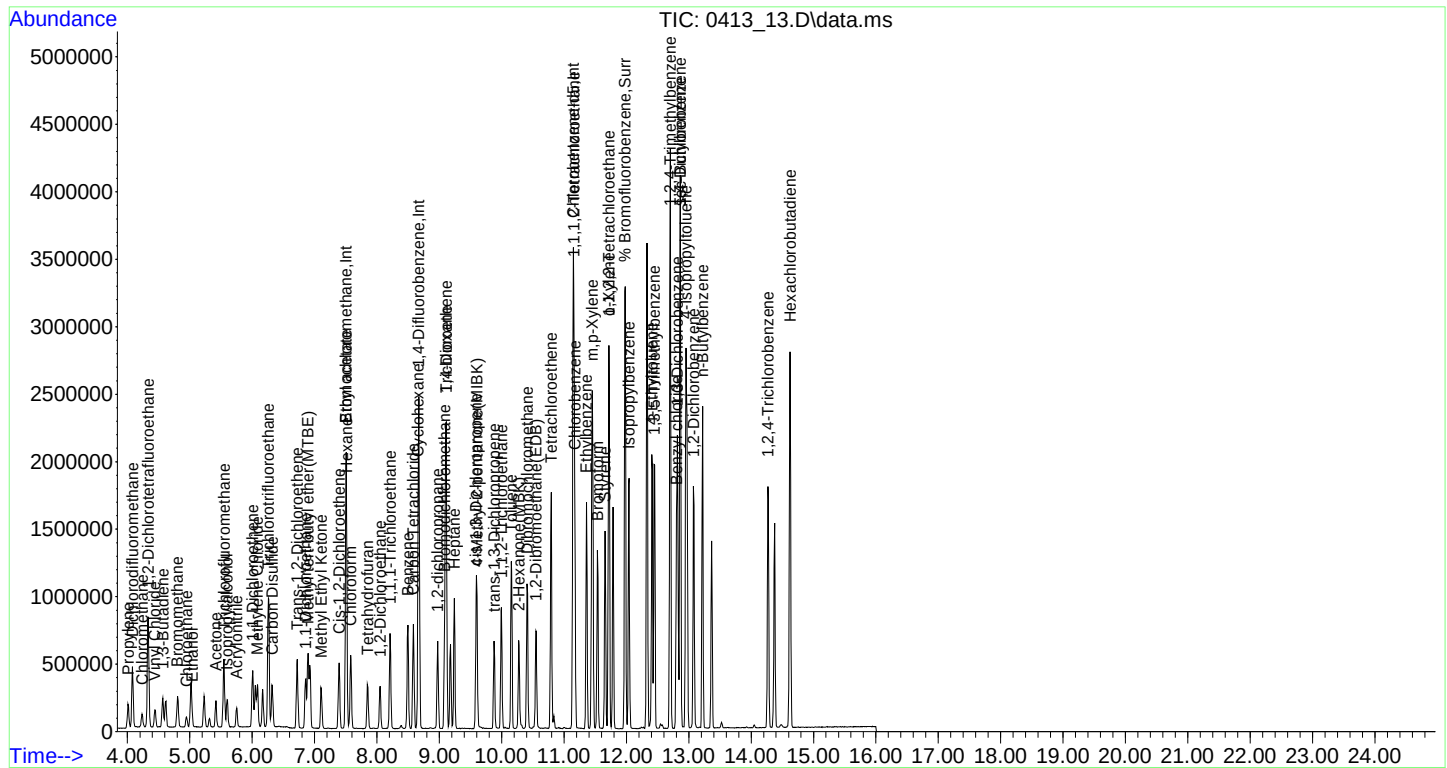
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.219	91	1177868	5.220	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.270	180	621576	5.720	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
Data File : 0413_13.D
Acq On : 13 Apr 2023 10:25 pm
Operator :
Client ID : ICAL 5
Lab ID : 5.0 : to1503s
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 14 11:10:18 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Apr 11 12:46:48 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_14.D
 Acq On : 13 Apr 2023 11:04 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ; to1503s
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 14 11:10:57 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:10:43 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.497	130	388398	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.669	114	1452906	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	755908	10.000	ng	0.00
81) Bromochloromethane(sim)	7.500	130	367870	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.669	114	1452906	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	754866	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.974	95	999676	9.402	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.00%

Target Compounds						Qvalue
2) Propylene	4.000	41	547525	25.411	ppbv	99
3) Dichlorodifluoromethane	4.073	85	2064961	25.385	ppbv	100
4) Chloromethane	4.227	50	568133	25.751	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.324	85	2042721	25.450	ppbv	100
6) Vinyl Chloride	4.430	62	735395	25.942	ppbv	100
7) 1,3-Butadiene	4.560	54	519765	25.714	ppbv	100
8) Bromomethane	4.795	94	799512	25.351	ppbv	100
9) Chloroethane	4.941	64	345031	24.138	ppbv	98
11) Ethanol	5.022	45	180963	24.227	ppbv	100
12) Acetone	5.400	43	981333	24.993	ppbv	100
13) Trichlorofluoromethane	5.541	101	2088406	25.909	ppbv	100
14) Isopropylalcohol	5.578	45	1201607	25.878	ppbv	100
15) Acrylonitrile	5.743	53	505343	26.056	ppbv	99
16) 1,1-Dichloroethene	6.001	61	1188372	25.833	ppbv	100
17) Methylene Chloride	6.079	49	749061	25.860	ppbv	99
20) Carbon Disulfide	6.311	76	2229689	25.890	ppbv	99
21) Trichlorotrifluoroethane	6.257	101	1750735	25.458	ppbv	100
22) Trans-1,2-Dichloroethene	6.716	61	1297943	26.167	ppbv	100
23) 1,1-Dichloroethane	6.853	63	1594328	25.672	ppbv	100
24) Methyl tert-butyl ethe...	6.882	73	2442812	25.579	ppbv	100
26) Methyl Ethyl Ketone	7.091	43	1782592	28.608	ppbv	98
27) Cis-1,2-Dichloroethene	7.386	61	1220926	25.862	ppbv	100
28) Hexane	7.505	57	1311789	24.936	ppbv	99
29) Chloroform	7.576	83	1934465	25.425	ppbv	100
30) Ethyl acetate	7.497	61	385300	25.302	ppbv	99
31) Tetrahydrofuran	7.838	42	893674	25.796	ppbv	99
32) 1,2-Dichloroethane	8.044	62	1093832	26.334	ppbv	100
33) 1,1,1-Trichloroethane	8.211	97	1932523	25.906	ppbv	100
34) Benzene	8.488	78	3011728	25.330	ppbv	100
35) Carbon Tetrachloride	8.583	117	2087134	25.917	ppbv	100
36) Cyclohexane	8.661	84	1182683	25.165	ppbv	98
38) 1,2-dichloropropane	8.972	63	1180028	25.299	ppbv	99
39) Bromodichloromethane	9.085	83	2074824	25.734	ppbv	99
40) Trichloroethene	9.102	130	1530363	24.917	ppbv	100
42) 1,4-Dioxane	9.093	88	677231	24.915	ppbv	98
44) Heptane	9.240	43	1491818	24.643	ppbv	99
45) cis-1,3-Dichloropropene	9.589	75	1763819	25.547	ppbv	100
46) 4-Methyl-2-pentanone(M...	9.589	43	1871750	24.422	ppbv	99
47) trans-1,3-Dichloropropene	9.878	75	1631983	26.153	ppbv	100
48) 1,1,2-Trichloroethane	9.990	97	1340571	25.364	ppbv	100
49) Toluene	10.152	91	3960164	25.017	ppbv	99
50) Dibromochloromethane	10.406	129	2626027	25.968	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_14.D
 Acq On : 13 Apr 2023 11:04 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ; to1503s
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 14 11:10:57 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:10:43 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.265	43	1844349	25.428	ppbv	99
52)	1,2-Dibromoethane(EDB)	10.546	107	2231794	25.541	ppbv	100
53)	Tetrachloroethene	10.793	166	2270367	25.525	ppbv	100
55)	1,1,1,2-Tetrachloroethane	11.155	131	1710433	24.369	ppbv	99
56)	Chlorobenzene	11.170	112	3206355	23.687	ppbv	99
57)	Ethylbenzene	11.360	91	4969976	23.636	ppbv	100
58)	m,p-Xylene	11.451	91	7643526	47.874	ppbv	99
60)	Styrene	11.656	104	3140964	24.105	ppbv	99
61)	1,1,2,2-Tetrachloroethane	11.716	83	2848145	23.741	ppbv	100
62)	o-Xylene	11.716	91	3840328	23.191	ppbv	100
65)	Isopropylbenzene	12.035	105	5358770	23.562	ppbv	99
67)	4-Ethyltoluene	12.407	105	5806330	24.108	ppbv	99
68)	1,3,5-Trimethylbenzene	12.445	105	4568236	23.317	ppbv	99
69)	1,2,4-Trimethylbenzene	12.703	105	4715574	23.729	ppbv	100
71)	Benzyl chloride	12.802	91	4018602	24.907	ppbv	99
72)	1,3-Dichlorobenzene	12.817	146	3740070	25.078	ppbv	100
73)	1,4-Dichlorobenzene	12.855	146	3387834	23.344	ppbv	100
74)	sec-Butylbenzene	12.862	105	6427854	22.931	ppbv	99
75)	4-Isopropyltoluene	12.953	119	6207268	23.363	ppbv	98
76)	1,2-Dichlorobenzene	13.075	146	3514143	25.084	ppbv	99
77)	n-Butylbenzene	13.219	91	5253246	23.660	ppbv	99
78)	1,2,4-Trichlorobenzene	14.267	180	3105305	27.226	ppbv	100
80)	Hexachlorobutadiene	14.624	225	2954269	27.680	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.324	85	2041609	24.959	ppbv	100
83)	Vinyl Chloride(sim)	4.433	62	745436	26.141	ppbv	100
84)	Bromomethane(sim)	4.795	94	799512	24.557	ppbv	100
85)	Trichlorofluoromethane...	5.538	101	2080707	25.959	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.044	62	1093832	26.653	ppbv	100
87)	1,1,1-Trichloroethane(...	8.206	97	1961900	25.772	ppbv#	99
88)	Benzene(sim)	8.488	78	3011728	22.722	ppbv	100
89)	Carbon Tetrachloride(sim)	8.586	117	2019242	26.480	ppbv	99
90)	1,1-Dichloroethene(sim)	6.001	61	1188372	25.349	ppbv	100
91)	Trichlorotrifluoroetha...	6.254	101	1718485	24.917	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.716	61	1297943	26.327	ppbv	100
93)	1,1-Dichloroethane(sim)	6.850	63	1618899	26.058	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.386	61	1221113	25.899	ppbv	100
95)	Chloroform(sim)	7.579	83	1932970	23.681	ppbv	100
97)	1,2-dichloropropane(sim)	8.966	63	1200730	25.249	ppbv	100
98)	Bromodichloromethane(sim)	9.085	83	2074824	24.962	ppbv	100
99)	Trichloroethene(sim)	9.105	130	1473210	24.327	ppbv	100
100)	1,4-Dioxane(sim)	9.093	88	677231	24.335	ppbv	98
101)	cis-1,3-Dichloropropen...	9.585	75	1802459	26.114	ppbv	99
102)	1,1,2-Trichloroethane(...	9.990	97	1340571	25.010	ppbv	100
103)	Dibromochloromethane(sim)	10.409	129	2498695	26.775	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.546	107	2231794	25.217	ppbv	100
105)	Tetrachloroethene(sim)	10.789	166	2130547	23.838	ppbv	99
107)	Bromoform(sim)	11.537	173	2758977	24.828	ppbv	100
108)	m,p-Xylene(sim)	11.451	91	7649634	45.214	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.719	83	2777967	21.497	ppbv	99
112)	Benzyl chloride(sim)	12.802	91	4018602	23.324	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.820	146	3880947	23.828	ppbv	98
115)	sec-Butylbenzene(sim)	12.698	105	4752556	21.394	ppbv	99
116)	4-Isopropyltoluene(sim)	12.953	119	6206523	21.517	ppbv	98
117)	1,2-Dichlorobenzene(sim)	13.078	146	3539400	23.724	ppbv	99
118)	n-Butylbenzene(sim)	13.219	91	5253246	22.572	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
Data File : 0413_14.D
Acq On : 13 Apr 2023 11:04 pm
Operator :
Client ID : ICAL 25
Lab ID : 25 ; to1503s
ALS Vial : 11 Sample Multiplier: 1

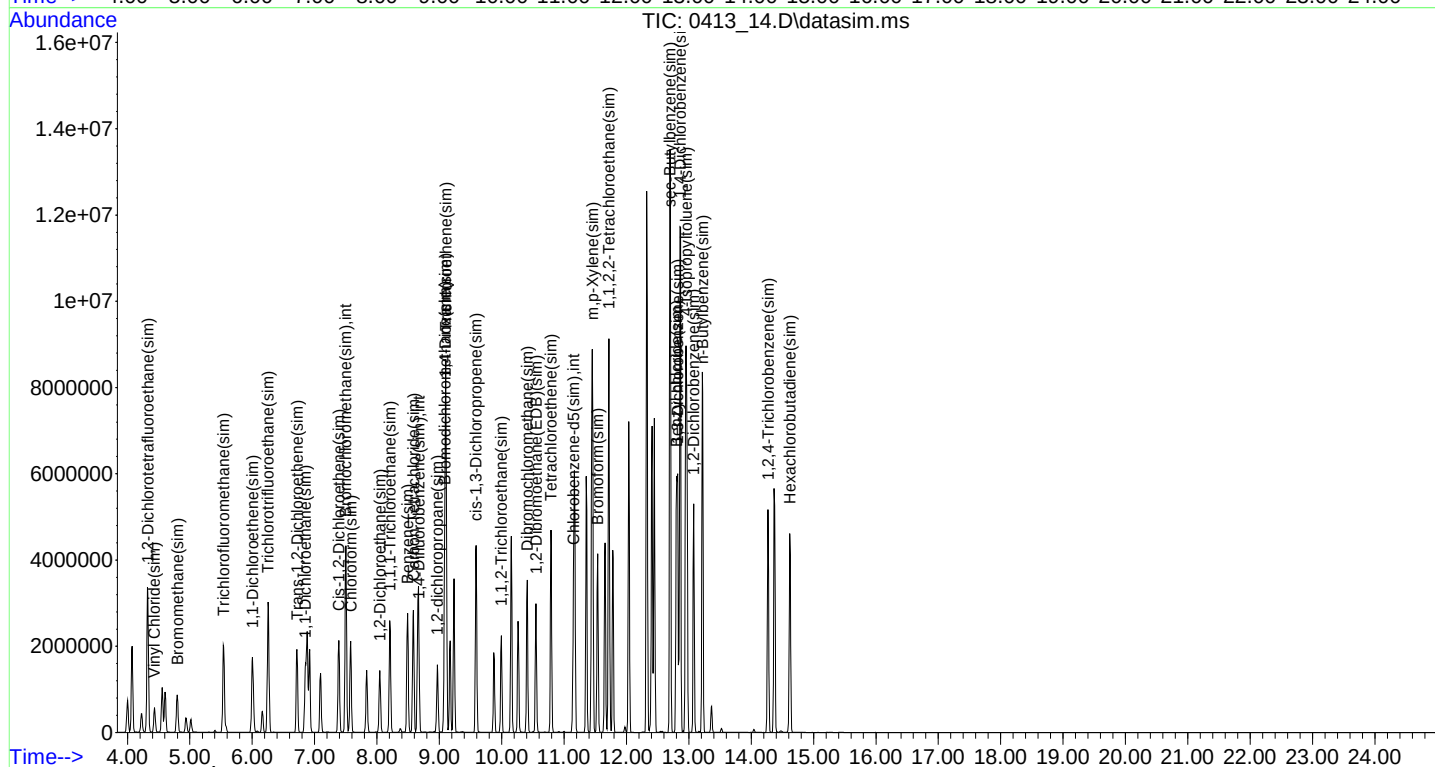
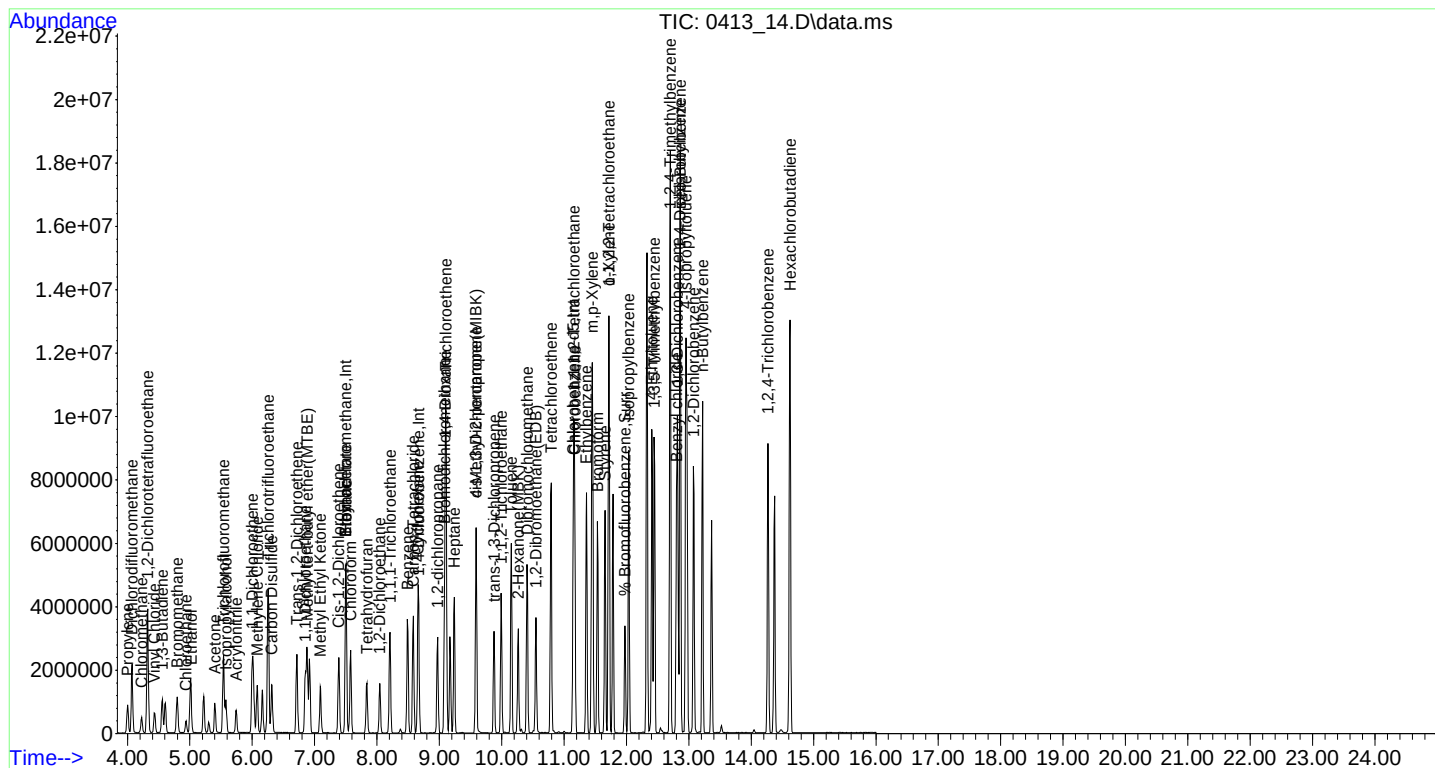
Quant Time: Apr 14 11:10:57 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:10:43 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
119] 1,2,4-Trichlorobenzene...	14.270	180	3080367	27.484	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

```
Data Path : H:\AIR2023\CHEM39\04APR\13\  
Data File : 0413_14.D  
Acq On : 13 Apr 2023 11:04 pm  
Operator :  
Client ID : ICAL 25  
Lab ID : 25 ; to1503s  
ALS Vial : 11 Sample Multiplier: 1
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Quant Time: Apr 14 11:10:57 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:10:43 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_15.D
 Acq On : 13 Apr 2023 11:44 pm
 Operator :
 Client ID : ICAL 40
 Lab ID : 40 ; to1503s
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 14 11:11:20 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:11:08 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.505	130	388577	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.669	114	1455785	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	782393	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	367831	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.669	114	1455785	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	782393	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.974	95	1006174	9.425	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	94.20%

Target Compounds						Qvalue
2) Propylene	4.008	41	875146	40.597	ppbv	100
3) Dichlorodifluoromethane	4.081	85	3235899	39.761	ppbv	100
4) Chloromethane	4.235	50	905142	41.007	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.325	85	3237028	40.311	ppbv	100
6) Vinyl Chloride	4.438	62	1178305	41.547	ppbv	100
7) 1,3-Butadiene	4.560	54	834519	41.267	ppbv	100
8) Bromomethane	4.803	94	1276937	40.471	ppbv	100
9) Chloroethane	4.941	64	550066	38.465	ppbv	99
11) Ethanol	5.022	45	258323	34.567	ppbv	100
12) Acetone	5.406	43	1577108	40.149	ppbv	100
13) Trichlorofluoromethane	5.541	101	3310401	41.051	ppbv	100
14) Isopropylalcohol	5.584	45	1814753	39.064	ppbv	100
15) Acrylonitrile	5.743	53	816336	42.072	ppbv	99
16) 1,1-Dichloroethene	6.001	61	1883023	40.915	ppbv	100
17) Methylene Chloride	6.085	49	1194942	41.234	ppbv	100
20) Carbon Disulfide	6.317	76	3548422	41.184	ppbv	100
21) Trichlorotrifluoroethane	6.257	101	2742644	39.863	ppbv	100
22) Trans-1,2-Dichloroethene	6.716	61	2060066	41.513	ppbv	100
23) 1,1-Dichloroethane	6.853	63	2512591	40.439	ppbv	100
24) Methyl tert-butyl ethe...	6.882	73	3854542	40.343	ppbv	100
26) Methyl Ethyl Ketone	7.097	43	2751232	44.134	ppbv	99
27) Cis-1,2-Dichloroethene	7.394	61	1943243	41.143	ppbv	100
28) Hexane	7.505	57	2054275	39.032	ppbv	100
29) Chloroform	7.577	83	3057902	40.172	ppbv	100
30) Ethyl acetate	7.497	61	605822	39.765	ppbv	100
31) Tetrahydrofuran	7.838	42	1410155	40.686	ppbv	100
32) 1,2-Dichloroethane	8.052	62	1726431	41.544	ppbv	100
33) 1,1,1-Trichloroethane	8.211	97	3078183	41.244	ppbv	99
34) Benzene	8.496	78	4741744	39.862	ppbv	100
35) Carbon Tetrachloride	8.583	117	3306372	41.038	ppbv	100
36) Cyclohexane	8.661	84	1868208	39.733	ppbv	100
38) 1,2-dichloropropane	8.972	63	1853201	39.653	ppbv	99
39) Bromodichloromethane	9.085	83	3216533	39.816	ppbv	100
40) Trichloroethene	9.111	130	2342987	38.073	ppbv	100
42) 1,4-Dioxane	9.093	88	970845	35.647	ppbv	98
44) Heptane	9.240	43	2324073	38.315	ppbv	99
45) cis-1,3-Dichloropropene	9.589	75	2752709	39.792	ppbv	100
46) 4-Methyl-2-pentanone(M...	9.596	43	2895388	37.704	ppbv	99
47) trans-1,3-Dichloropropene	9.878	75	2571433	41.127	ppbv	100
48) 1,1,2-Trichloroethane	9.998	97	2097682	39.611	ppbv	100
49) Toluene	10.152	91	6130828	38.653	ppbv	99
50) Dibromochloromethane	10.406	129	4129781	40.757	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_15.D
 Acq On : 13 Apr 2023 11:44 pm
 Operator :
 Client ID : ICAL 40
 Lab ID : 40 ; to1503s
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 14 11:11:20 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:11:08 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.265	43	2892947	39.806	ppbv	99
52)	1,2-Dibromoethane(EDB)	10.554	107	3495438	39.923	ppbv	100
53)	Tetrachloroethene	10.793	166	3527938	39.585	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.155	131	2670748	36.762	ppbv	100
56)	Chlorobenzene	11.170	112	4947772	35.315	ppbv	99
57)	Ethylbenzene	11.360	91	7627859	35.048	ppbv	99
58)	m,p-Xylene	11.451	91	11432493	69.182	ppbv	99
60)	Styrene	11.656	104	4884381	36.215	ppbv	100
61)	1,1,2,2-Tetrachloroethane	11.716	83	4277960	34.453	ppbv	99
62)	o-Xylene	11.724	91	5848441	34.123	ppbv	100
65)	Isopropylbenzene	12.042	105	8161390	34.671	ppbv	99
67)	4-Ethyltoluene	12.414	105	8676917	34.807	ppbv	99
68)	1,3,5-Trimethylbenzene	12.452	105	7093970	34.983	ppbv	100
69)	1,2,4-Trimethylbenzene	12.703	105	6967589	33.875	ppbv	99
71)	Benzyl chloride	12.802	91	6301737	37.735	ppbv	100
72)	1,3-Dichlorobenzene	12.825	146	5642991	36.556	ppbv	99
73)	1,4-Dichlorobenzene	12.862	146	5190308	34.554	ppbv	99
74)	sec-Butylbenzene	12.870	105	9435367	32.521	ppbv	98
75)	4-Isopropyltoluene	12.954	119	9306723	33.842	ppbv	98
76)	1,2-Dichlorobenzene	13.083	146	5469820	37.722	ppbv	99
77)	n-Butylbenzene	13.219	91	8011247	34.860	ppbv	99
78)	1,2,4-Trichlorobenzene	14.275	180	4827511	40.893	ppbv	100
80)	Hexachlorobutadiene	14.624	225	4569951	41.368	ppbv	100
82)	1,2-Dichlorotetrafluor...	4.325	85	3232230	39.519	ppbv	100
83)	Vinyl Chloride(sim)	4.441	62	1192496	41.823	ppbv	100
84)	Bromomethane(sim)	4.803	94	1276937	39.225	ppbv	100
85)	Trichlorofluoromethane...	5.544	101	3288672	41.033	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.052	62	1726431	42.071	ppbv	100
87)	1,1,1-Trichloroethane(...	8.214	97	3126263	41.071	ppbv#	100
88)	Benzene(sim)	8.496	78	4741744	35.779	ppbv	100
89)	Carbon Tetrachloride(sim)	8.586	117	3184140	41.760	ppbv	100
90)	1,1-Dichloroethene(sim)	6.001	61	1883023	40.171	ppbv	100
91)	Trichlorotrifluoroetha...	6.260	101	2682832	38.903	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.716	61	2060066	41.789	ppbv	100
93)	1,1-Dichloroethane(sim)	6.856	63	2553309	41.103	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.394	61	1943243	41.219	ppbv	100
95)	Chloroform(sim)	7.580	83	3052049	37.394	ppbv	100
97)	1,2-dichloropropane(sim)	8.975	63	1882742	39.513	ppbv	99
98)	Bromodichloromethane(sim)	9.085	83	3216533	38.621	ppbv	100
99)	Trichloroethene(sim)	9.105	130	2245633	37.009	ppbv	100
100)	1,4-Dioxane(sim)	9.093	88	970845	34.816	ppbv	98
101)	cis-1,3-Dichloropropen...	9.585	75	2790405	40.347	ppbv	100
102)	1,1,2-Trichloroethane(...	9.998	97	2097933	39.063	ppbv	100
103)	Dibromochloromethane(sim)	10.409	129	3917729	41.897	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.554	107	3495438	39.417	ppbv	100
105)	Tetrachloroethene(sim)	10.796	166	3331454	37.200	ppbv	100
107)	Bromoform(sim)	11.537	173	4339960	37.681	ppbv	100
108)	m,p-Xylene(sim)	11.451	91	11441868	65.250	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.719	83	4178263	31.196	ppbv	100
112)	Benzyl chloride(sim)	12.802	91	6301737	35.288	ppbv	100
113)	1,3-Dichlorobenzene(sim)	12.820	146	5774275	34.205	ppbv	97
115)	sec-Butylbenzene(sim)	12.706	105	6955568	30.210	ppbv	99
116)	4-Isopropyltoluene(sim)	12.954	119	9306723	31.130	ppbv	98
117)	1,2-Dichlorobenzene(sim)	13.078	146	5474251	35.402	ppbv	99
118)	n-Butylbenzene(sim)	13.219	91	8011247	33.212	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_15.D
 Acq On : 13 Apr 2023 11:44 pm
 Operator :
 Client ID : ICAL 40
 Lab ID : 40 ; to1503s
 ALS Vial : 12 Sample Multiplier: 1

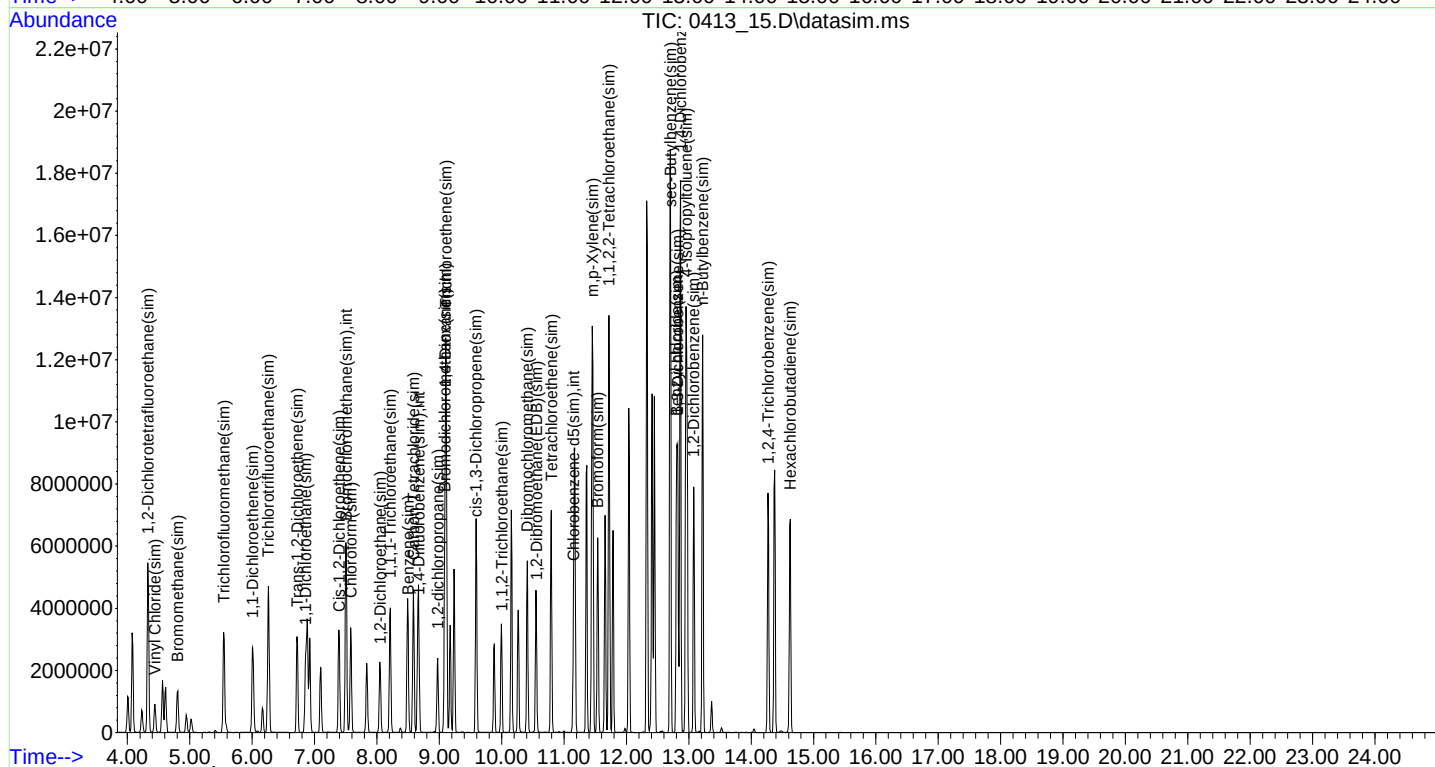
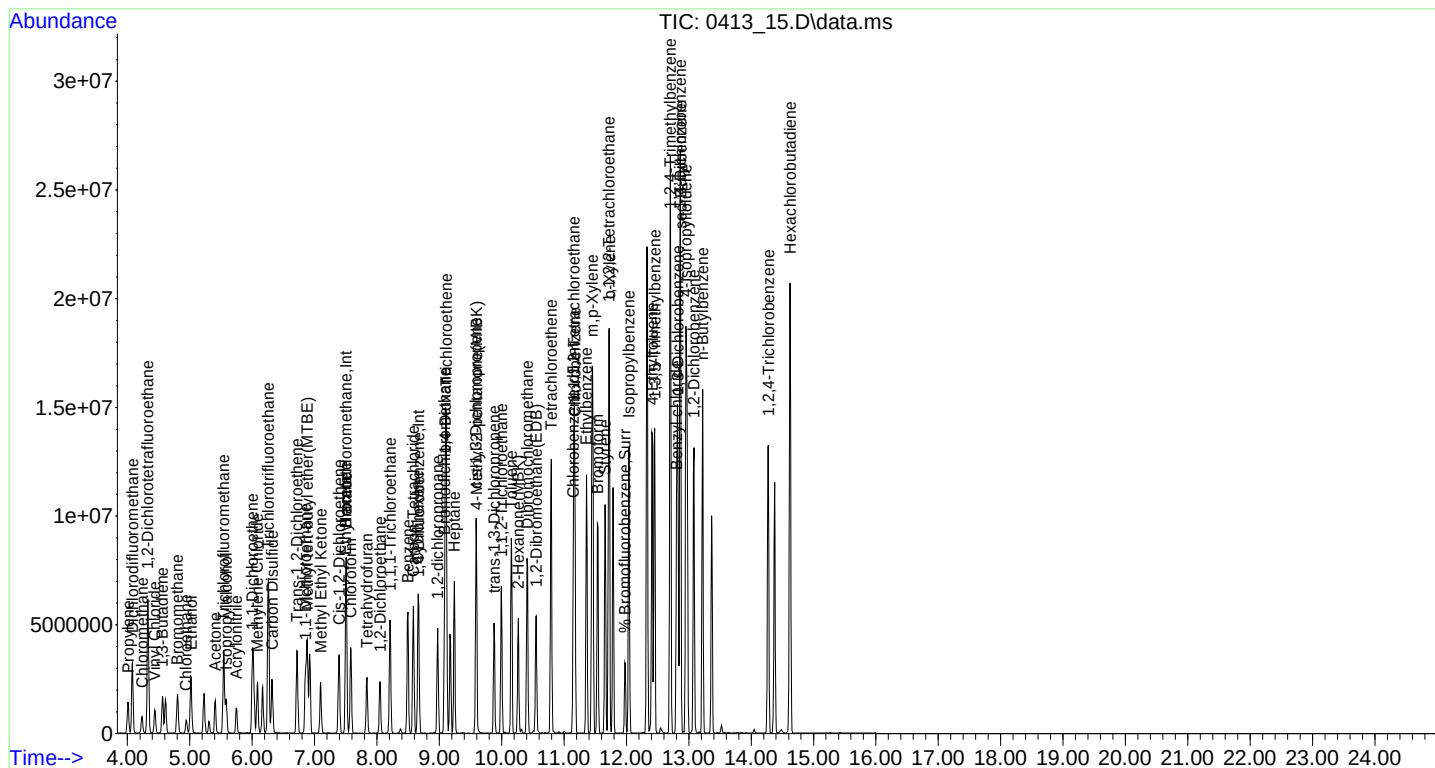
Quant Time: Apr 14 11:11:20 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Apr 14 11:11:08 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
119] 1,2,4-Trichlorobenzene...	14.270	180	4784595	41.187	ppbv	99

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

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Data Path : H:\AIR2023\CHEM39\04APR\13\  
Data File : 0413_15.D  
Acq On : 13 Apr 2023 11:44 pm  
Operator :  
Client ID : ICAL 40  
Lab ID : 40 ; to1503s  
ALS Vial : 12 Sample Multiplier: 1
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Quant Time: Apr 14 11:11:20 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:11:08 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_16.D
 Acq On : 14 Apr 2023 12:21 am
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 : to1503r
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 14 11:21:43 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.505	130	409536	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.669	114	1513379	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	724813	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	386797	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.669	114	1513379	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	726518	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.982	95	1034799	10.249	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.50%

Target Compounds						Qvalue
2) Propylene	4.016	41	22206	0.977	ppbv	97
3) Dichlorodifluoromethane	4.081	85	81379	0.949	ppbv#	99
4) Chloromethane	4.235	50	22094	0.950	ppbv	91
5) 1,2-Dichlorotetrafluor...	4.333	85	81551	0.964	ppbv	100
6) Vinyl Chloride	4.446	62	28404	0.950	ppbv	97
7) 1,3-Butadiene	4.568	54	20398	0.957	ppbv	99
8) Bromomethane	4.803	94	33712	1.014	ppbv	93
9) Chloroethane	4.949	64	14179	0.941	ppbv	94
11) Ethanol	5.047	45	7892	1.002	ppbv#	95
12) Acetone	5.430	43	39544	0.955	ppbv	95
13) Trichlorofluoromethane	5.547	101	82265	0.968	ppbv	99
14) Isopropylalcohol	5.614	45	48647	0.994	ppbv	96
15) Acrylonitrile	5.755	53	19641	0.960	ppbv	96
16) 1,1-Dichloroethene	6.007	61	46022	0.949	ppbv	96
17) Methylene Chloride	6.085	49	29577	0.968	ppbv	99
20) Carbon Disulfide	6.323	76	88910	0.979	ppbv	99
21) Trichlorotrifluoroethane	6.263	101	70694	0.975	ppbv	100
22) Trans-1,2-Dichloroethene	6.722	61	50134	0.959	ppbv	98
23) 1,1-Dichloroethane	6.859	63	64282	0.982	ppbv	99
24) Methyl tert-butyl ethe...	6.906	73	99585	0.989	ppbv	100
26) Methyl Ethyl Ketone	7.117	43	60994	0.928	ppbv	99
27) Cis-1,2-Dichloroethene	7.394	61	48055	0.965	ppbv	98
28) Hexane	7.513	57	55302	0.997	ppbv	99
29) Chloroform	7.584	83	77978	0.972	ppbv	98
30) Ethyl acetate	7.513	61	16483	1.027	ppbv	98
31) Tetrahydrofuran	7.862	42	35489	0.972	ppbv	98
32) 1,2-Dichloroethane	8.052	62	41517	0.948	ppbv	97
33) 1,1,1-Trichloroethane	8.211	97	75441	0.959	ppbv	99
34) Benzene	8.496	78	122554	0.978	ppbv	97
35) Carbon Tetrachloride	8.583	117	81662	0.962	ppbv	100
36) Cyclohexane	8.661	84	48609	0.981	ppbv	95
38) 1,2-dichloropropane	8.972	63	47487	0.977	ppbv	99
39) Bromodichloromethane	9.085	83	80712	0.961	ppbv	98
40) Trichloroethene	9.111	130	62699	0.980	ppbv	99
42) 1,4-Dioxane	9.128	88	29922	1.057	ppbv	94
44) Heptane	9.240	43	62111	0.985	ppbv	99
45) cis-1,3-Dichloropropene	9.589	75	70647	0.982	ppbv	99
46) 4-Methyl-2-pentanone(M...	9.610	43	81534	1.021	ppbv	98
47) trans-1,3-Dichloropropene	9.878	75	62512	0.962	ppbv	99
48) 1,1,2-Trichloroethane	9.998	97	53293	0.968	ppbv	99
49) Toluene	10.159	91	160924	0.976	ppbv	99
50) Dibromochloromethane	10.406	129	99647	0.946	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_16.D
 Acq On : 14 Apr 2023 12:21 am
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 : to1503r
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 14 11:21:43 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.286	43	76690	1.015	ppbv	99
52)	1,2-Dibromoethane(EDB)	10.554	107	88997	0.978	ppbv	99
53)	Tetrachloroethene	10.793	166	89342	0.964	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.155	131	64961	0.965	ppbv	98
56)	Chlorobenzene	11.170	112	129359	0.997	ppbv	92
57)	Ethylbenzene	11.360	91	201182	0.998	ppbv	100
58)	m,p-Xylene	11.451	91	314788	2.056	ppbv	99
59)	Bromoform	11.534	173	109578	0.916	ppbv	99
60)	Styrene	11.656	104	125509	1.005	ppbv	100
61)	1,1,2,2-Tetrachloroethane	11.716	83	116505	1.013	ppbv	99
62)	o-Xylene	11.724	91	158886	1.001	ppbv	99
65)	Isopropylbenzene	12.042	105	217808	0.999	ppbv	100
67)	4-Ethyltoluene	12.414	105	228672	0.990	ppbv	100
68)	1,3,5-Trimethylbenzene	12.452	105	186983	0.995	ppbv	99
69)	1,2,4-Trimethylbenzene	12.703	105	187671	0.985	ppbv	99
71)	Benzyl chloride	12.802	91	150095	0.970	ppbv	99
72)	1,3-Dichlorobenzene	12.824	146	138787	0.971	ppbv	100
73)	1,4-Dichlorobenzene	12.862	146	135405	0.973	ppbv	100
74)	sec-Butylbenzene	12.862	105	273620	1.018	ppbv	99
75)	4-Isopropyltoluene	12.954	119	257945	1.012	ppbv	99
76)	1,2-Dichlorobenzene	13.083	146	125902	0.937	ppbv	99
77)	n-Butylbenzene	13.219	91	216741	1.018	ppbv	100
78)	1,2,4-Trichlorobenzene	14.275	180	116203	1.063	ppbv	99
80)	Hexachlorobutadiene	14.624	225	94317	0.922	ppbv	100
82)	1,2-Dichlorotetrafluor...	4.333	85	81616	0.949	ppbv	100
83)	Vinyl Chloride(sim)	4.441	62	28796	0.960	ppbv	100
84)	Bromomethane(sim)	4.803	94	33712	0.985	ppbv	93
85)	Trichlorofluoromethane...	5.550	101	81337	0.965	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.052	62	41517	0.962	ppbv	97
87)	1,1,1-Trichloroethane(...	8.214	97	77472	0.968	ppbv#	98
88)	Benzene(sim)	8.496	78	122554	0.879	ppbv	97
89)	Carbon Tetrachloride(sim)	8.586	117	78513	0.979	ppbv	99
90)	1,1-Dichloroethene(sim)	6.007	61	46022	0.934	ppbv	93
91)	Trichlorotrifluoroetha...	6.260	101	69334	0.956	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.722	61	50134	0.967	ppbv	98
93)	1,1-Dichloroethane(sim)	6.856	63	63789	0.977	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.394	61	48055	0.969	ppbv	98
95)	Chloroform(sim)	7.579	83	77114	0.898	ppbv	99
97)	1,2-dichloropropane(sim)	8.975	63	47507	0.959	ppbv	100
98)	Bromodichloromethane(sim)	9.085	83	80857	0.934	ppbv	98
99)	Trichloroethene(sim)	9.105	130	60734	0.963	ppbv	100
100)	1,4-Dioxane(sim)	9.128	88	29922	1.032	ppbv	94
101)	cis-1,3-Dichloropropen...	9.592	75	71245	0.991	ppbv	99
102)	1,1,2-Trichloroethane(...	9.998	97	53293	0.955	ppbv	99
103)	Dibromochloromethane(sim)	10.409	129	94639	0.974	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.554	107	88314	0.958	ppbv	100
105)	Tetrachloroethene(sim)	10.796	166	83420	0.896	ppbv	99
107)	Bromoform(sim)	11.537	173	98790	0.924	ppbv	100
108)	m,p-Xylene(sim)	11.451	91	315979	1.941	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.719	83	114495	0.921	ppbv	100
112)	Benzyl chloride(sim)	12.802	91	149956	0.904	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.820	146	143003	0.912	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.862	146	135405	0.907	ppbv	100
115)	sec-Butylbenzene(sim)	12.698	105	195095	0.913	ppbv	99
116)	4-Isopropyltoluene(sim)	12.954	119	258223	0.930	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
Data File : 0413_16.D
Acq On : 14 Apr 2023 12:21 am
Operator :
Client ID : ICAL 1
Lab ID : 1.0 ; to1503r
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 14 11:21:43 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:21:21 2023
Response via : Initial Calibration

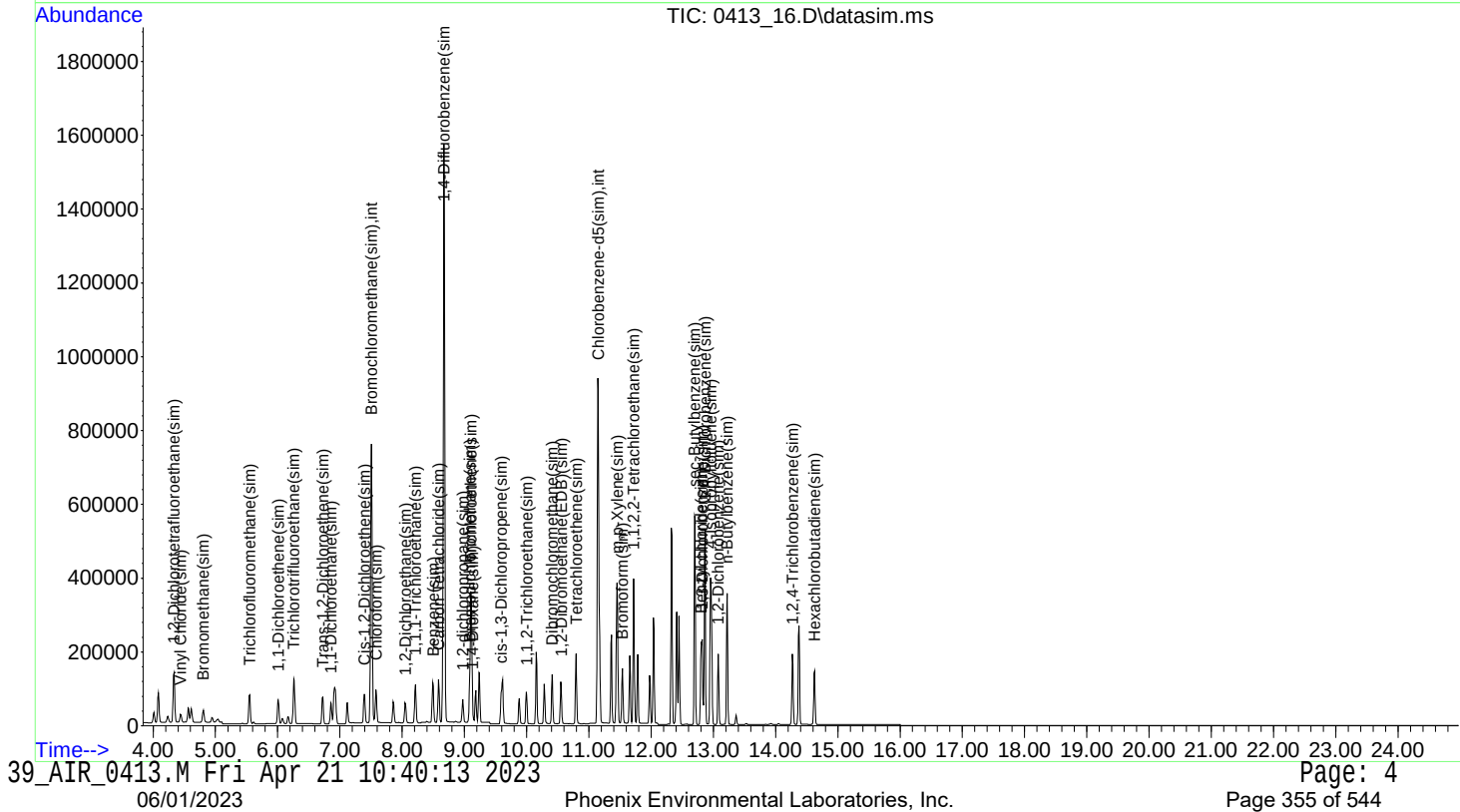
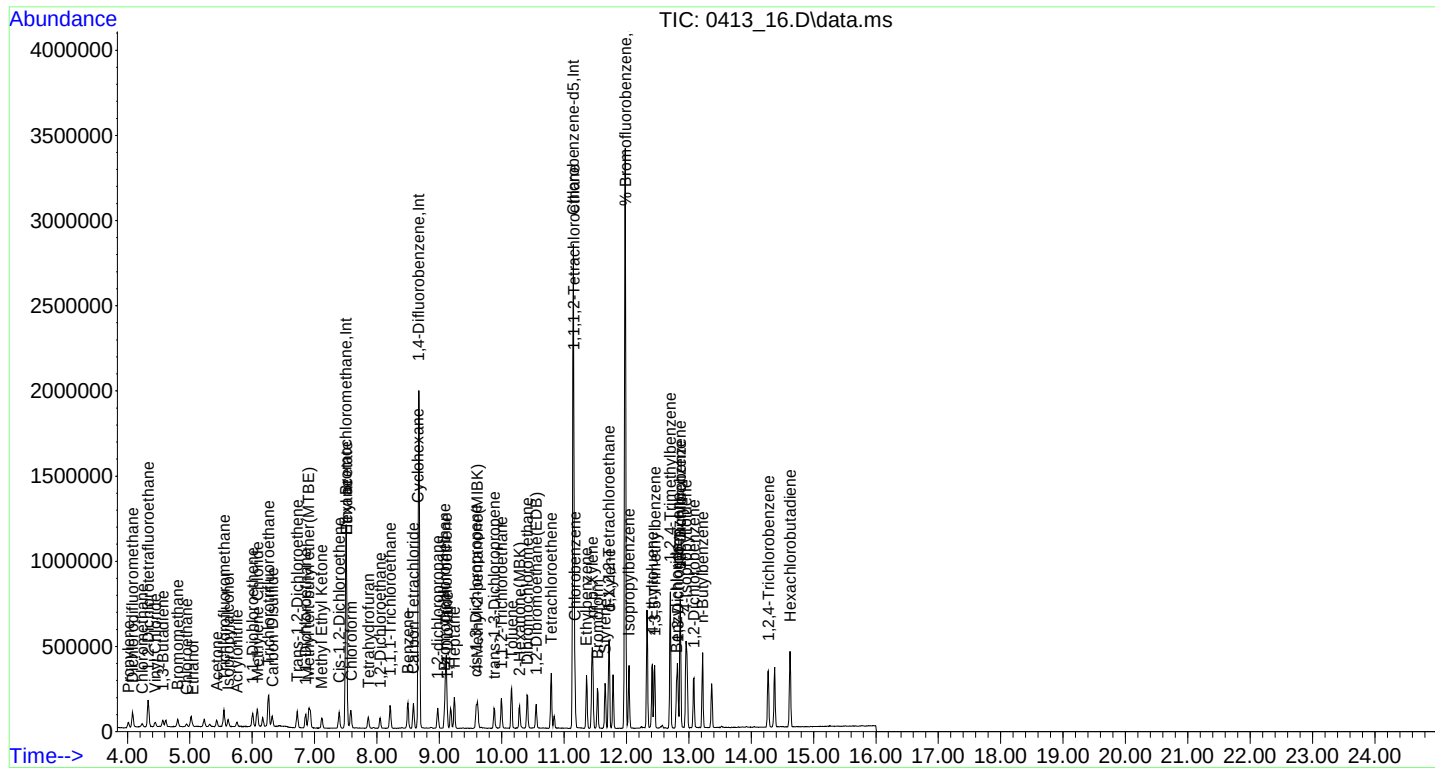
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.078	146	127726	0.890	ppbv	100
118]	n-Butylbenzene(sim)	13.219	91	216842	0.968	ppbv	100
119]	1,2,4-Trichlorobenzene...	14.270	180	116495	1.080	ppbv	100
121]	Hexachlorobutadiene(sim)	14.627	225	87640	1.009	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

```
Data Path   : H:\AIR2023\CHEM39\04APR\13\  
Data File  : 0413_16.D  
Acq On     : 14 Apr 2023 12:21 am  
Operator   :  
Client ID  : ICAL 1  
Lab ID     : 1.0 : to1503r  
ALS Vial   : 13 Sample Multiplier: 1
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Quant Time: Apr 14 11:21:43 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:21:21 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_17.D
 Acq On : 14 Apr 2023 12:57 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ; to1503s
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 14 11:22:03 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.505	130	403000	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.669	114	1491410	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	743206	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	381536	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.669	114	1491410	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	743135	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.982 95 1036279 10.010 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 100.10%

Target Compounds					Qvalue
2) Propylene	4.008	41	223164	9.982	ppbv 100
3) Dichlorodifluoromethane	4.081	85	862125	10.214	ppbv 100
4) Chloromethane	4.235	50	238048	10.399	ppbv 100
5) 1,2-Dichlorotetrafluor...	4.333	85	856170	10.280	ppbv 100
6) Vinyl Chloride	4.446	62	303421	10.316	ppbv 100
7) 1,3-Butadiene	4.568	54	218951	10.440	ppbv 100
8) Bromomethane	4.803	94	328579	10.041	ppbv 100
9) Chloroethane	4.949	64	144113	9.717	ppbv 100
11) Ethanol	5.030	45	78731	10.158	ppbv 100
12) Acetone	5.412	43	407457	10.001	ppbv 100
13) Trichlorofluoromethane	5.547	101	860693	10.291	ppbv 100
14) Isopropylalcohol	5.590	45	510064	10.587	ppbv 100
15) Acrylonitrile	5.749	53	206875	10.280	ppbv 100
16) 1,1-Dichloroethene	6.007	61	498882	10.452	ppbv 100
17) Methylene Chloride	6.085	49	312651	10.403	ppbv 100
20) Carbon Disulfide	6.323	76	919824	10.294	ppbv 100
21) Trichlorotrifluoroethane	6.263	101	734214	10.290	ppbv 100
22) Trans-1,2-Dichloroethene	6.722	61	537977	10.453	ppbv 100
23) 1,1-Dichloroethane	6.859	63	664089	10.306	ppbv 100
24) Methyl tert-butyl ethe...	6.888	73	1024750	10.342	ppbv 100
26) Methyl Ethyl Ketone	7.103	43	714376	11.049	ppbv 100
27) Cis-1,2-Dichloroethene	7.394	61	509624	10.404	ppbv 100
28) Hexane	7.513	57	555532	10.178	ppbv 100
29) Chloroform	7.584	83	807372	10.227	ppbv 100
30) Ethyl acetate	7.505	61	165713	10.488	ppbv 100
31) Tetrahydrofuran	7.846	42	380203	10.577	ppbv 100
32) 1,2-Dichloroethane	8.052	62	450091	10.443	ppbv 100
33) 1,1,1-Trichloroethane	8.211	97	801877	10.360	ppbv 100
34) Benzene	8.496	78	1257094	10.190	ppbv 100
35) Carbon Tetrachloride	8.583	117	864309	10.344	ppbv 100
36) Cyclohexane	8.661	84	487649	10.000	ppbv 100
38) 1,2-dichloropropane	8.972	63	497742	10.396	ppbv 100
39) Bromodichloromethane	9.085	83	865786	10.461	ppbv 100
40) Trichloroethene	9.110	130	649773	10.306	ppbv 100
42) 1,4-Dioxane	9.102	88	294231	10.545	ppbv 100
44) Heptane	9.240	43	637164	10.254	ppbv 100
45) cis-1,3-Dichloropropene	9.589	75	739667	10.437	ppbv 100
46) 4-Methyl-2-pentanone(M...	9.596	43	813344	10.338	ppbv 100
47) trans-1,3-Dichloropropene	9.878	75	670999	10.475	ppbv 100
48) 1,1,2-Trichloroethane	9.997	97	561434	10.348	ppbv 100
49) Toluene	10.159	91	1668281	10.267	ppbv 100
50) Dibromochloromethane	10.413	129	1092008	10.520	ppbv 100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_17.D
 Acq On : 14 Apr 2023 12:57 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ; to1503s
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 14 11:22:03 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.272	43	779480	10.469	ppbv	100
52)	1,2-Dibromoethane(EDB)	10.554	107	930509	10.374	ppbv	100
53)	Tetrachloroethene	10.793	166	942057	10.318	ppbv	100
55)	1,1,1,2-Tetrachloroethane	11.155	131	708297	10.264	ppbv	100
56)	Chlorobenzene	11.170	112	1346524	10.118	ppbv	100
57)	Ethylbenzene	11.360	91	2102307	10.169	ppbv	100
58)	m,p-Xylene	11.451	91	3272691	20.848	ppbv	100
59)	Bromoform	11.534	173	1227514	10.192	ppbv	100
60)	Styrene	11.656	104	1310257	10.227	ppbv	100
61)	1,1,2,2-Tetrachloroethane	11.716	83	1226962	10.402	ppbv	100
62)	o-Xylene	11.724	91	1642114	10.086	ppbv	100
65)	Isopropylbenzene	12.042	105	2294639	10.262	ppbv	100
67)	4-Ethyltoluene	12.414	105	2437834	10.295	ppbv	100
68)	1,3,5-Trimethylbenzene	12.452	105	2015577	10.464	ppbv	100
69)	1,2,4-Trimethylbenzene	12.703	105	2047638	10.480	ppbv	100
71)	Benzyl chloride	12.802	91	1682052	10.603	ppbv	100
72)	1,3-Dichlorobenzene	12.824	146	1533492	10.458	ppbv	100
73)	1,4-Dichlorobenzene	12.862	146	1490470	10.446	ppbv	100
74)	sec-Butylbenzene	12.870	105	2851312	10.346	ppbv	100
75)	4-Isopropyltoluene	12.953	119	2707897	10.366	ppbv	100
76)	1,2-Dichlorobenzene	13.083	146	1477968	10.730	ppbv	100
77)	n-Butylbenzene	13.219	91	2296803	10.521	ppbv	100
78)	1,2,4-Trichlorobenzene	14.275	180	1260595	11.241	ppbv	100
80)	Hexachlorobutadiene	14.624	225	1192906	11.368	ppbv	100
82)	1,2-Dichlorotetrafluor...	4.333	85	854866	10.077	ppbv	100
83)	Vinyl Chloride(sim)	4.441	62	307798	10.407	ppbv	100
84)	Bromomethane(sim)	4.803	94	328579	9.731	ppbv	100
85)	Trichlorofluoromethane...	5.550	101	859568	10.340	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.052	62	450091	10.574	ppbv	100
87)	1,1,1-Trichloroethane(...	8.214	97	825246	10.452	ppbv#	100
88)	Benzene(sim)	8.496	78	1257094	9.145	ppbv	100
89)	Carbon Tetrachloride(sim)	8.586	117	835088	10.559	ppbv	100
90)	1,1-Dichloroethene(sim)	6.007	61	498882	10.260	ppbv	100
91)	Trichlorotrifluoroetha...	6.260	101	720283	10.070	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.722	61	537977	10.521	ppbv	100
93)	1,1-Dichloroethane(sim)	6.855	63	678468	10.530	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.394	61	509624	10.421	ppbv	100
95)	Chloroform(sim)	7.579	83	809831	9.566	ppbv	100
97)	1,2-dichloropropane(sim)	8.975	63	504183	10.328	ppbv	100
98)	Bromodichloromethane(sim)	9.085	83	865869	10.148	ppbv	100
99)	Trichloroethene(sim)	9.113	130	624558	10.047	ppbv	100
100)	1,4-Dioxane(sim)	9.102	88	294231	10.300	ppbv	100
101)	cis-1,3-Dichloropropen...	9.592	75	757747	10.695	ppbv	100
102)	1,1,2-Trichloroethane(...	9.997	97	561508	10.205	ppbv	100
103)	Dibromochloromethane(sim)	10.409	129	1028593	10.737	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.554	107	930509	10.242	ppbv	100
105)	Tetrachloroethene(sim)	10.796	166	882717	9.621	ppbv	100
107)	Bromoform(sim)	11.537	173	1112591	10.170	ppbv	100
108)	m,p-Xylene(sim)	11.451	91	3277369	19.677	ppbv	100
109)	1,1,2,2-Tetrachloroeth...	11.719	83	1204385	9.467	ppbv	100
112)	Benzyl chloride(sim)	12.802	91	1682052	9.917	ppbv	100
113)	1,3-Dichlorobenzene(sim)	12.820	146	1589322	9.912	ppbv	100
115)	sec-Butylbenzene(sim)	12.706	105	2113034	9.662	ppbv	100
116)	4-Isopropyltoluene(sim)	12.953	119	2705989	9.529	ppbv	100
117)	1,2-Dichlorobenzene(sim)	13.078	146	1498460	10.203	ppbv	100

Quantitation Report (RF) (QT Reviewed)

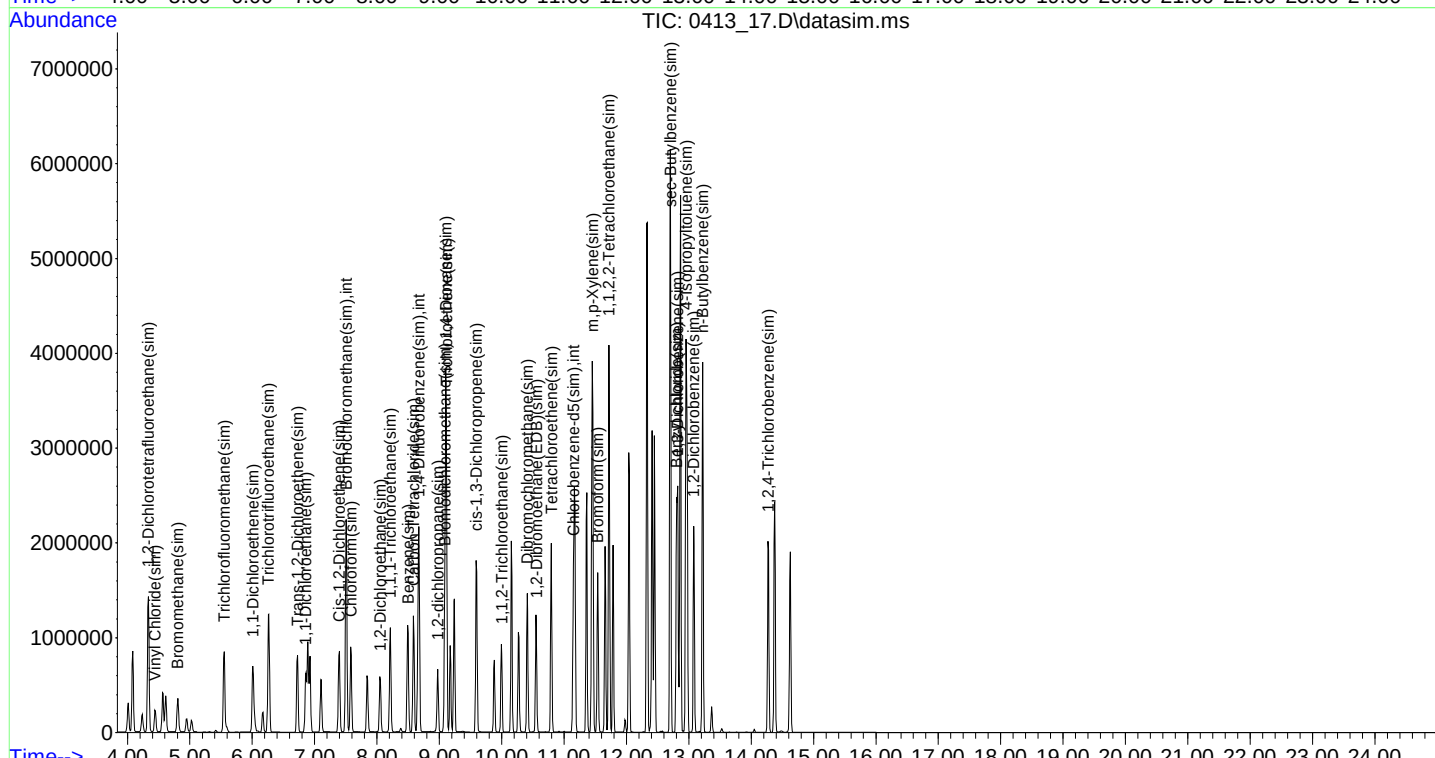
Data Path : H:\AIR2023\CHEM39\04APR\13\
 Data File : 0413_17.D
 Acq On : 14 Apr 2023 12:57 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ; to1503s
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 14 11:22:03 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.219	91	2296594	10.024	ppbv	100
119]	1,2,4-Trichlorobenzene...	14.270	180	1253631	11.362	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

```
Data Path : H:\AIR2023\CHEM39\04APR\13\  
Data File : 0413_17.D  
Acq On : 14 Apr 2023 12:57 am  
Operator :  
Client ID : ICAL 10  
Lab ID : 10 ; to1503s  
ALS Vial : 14 Sample Multiplier: 1
```

[illegible]

7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM20 Calibration Date: 04/14/23 Time: 09:30

Lab File Id: 0414_01.D Init. Calib. Date(s): 04/10/23 04/10/23

Heated Purge (Y/N): Y Init. Calib. Times: 10:01 16:24

GC Column: RTX-1 60M Method File: 20_AIR_0410.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	1.221	1.302		-6.6	30
Dichlorodifluoromethane	2.360	2.303		2.4	30
Chloromethane	1.264	1.370		-8.4	30
1,2-Dichlorotetrafluoroethane	2.196	2.161		1.6	30
Vinyl Chloride	1.004	1.001		0.3	30
1,3-Butadiene	1.018	1.017		0.1	30
Bromomethane	0.823	0.748		9.1	30
Chloroethane	0.462	0.439		5.0	30
Ethanol	0.456	0.496		-8.8	30
Acetone	2.297	2.528		-10.1	30
Trichlorofluoromethane	2.528	2.501		1.1	30
Isopropylalcohol	2.058	2.227		-8.2	30
Acrylonitrile	0.981	1.058		-7.8	30
1,1-Dichloroethene	1.837	1.936		-5.4	30
Methylene Chloride	1.734	1.862		-7.4	30
Carbon Disulfide	2.279	2.395		-5.1	30
Trichlorotrifluoroethane	1.859	1.993		-7.2	30
Trans-1,2-Dichloroethene	1.742	1.727		0.9	30
1,1-Dichloroethane	2.018	1.969		2.4	30
Methyl tert-butyl ether(MTBE)	2.473	2.336		5.5	30
Methyl Ethyl Ketone	3.507	3.339		4.8	30
Cis-1,2-Dichloroethene	1.755	1.652		5.9	30
Hexane	2.138	2.102		1.7	30
Chloroform	2.117	1.952		7.8	30
Ethyl acetate	0.532	0.462		13.2	30
Tetrahydrofuran	1.991	1.996		-0.3	30
1,2-Dichloroethane	1.621	1.549		4.4	30
1,1,1-Trichloroethane	2.495	1.968		21.1	30
Benzene	2.980	2.719		8.8	30
Carbon Tetrachloride	2.171	1.721		20.7	30
Cyclohexane	1.182	1.061		10.2	30
1,2-dichloropropane	0.392	0.371		5.4	30
Bromodichloromethane	0.603	0.512		15.1	30
Trichloroethene	0.412	0.392		4.9	30
1,4-Dioxane	0.168	0.179		-6.5	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM20 Calibration Date: 04/14/23 Time: 09:30

Lab File Id: 0414_01.D Init. Calib. Date(s): 04/10/23 04/10/23

Heated Purge (Y/N): Y Init. Calib. Times: 10:01 16:24

GC Column: RTX-1 60M Method File: 20_AIR_0410.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.868	0.908		-4.6	30
cis-1,3-Dichloropropene	0.459	0.407		11.3	30
4-Methyl-2-pentanone(MIBK)	1.136	1.118		1.6	30
trans-1,3-Dichloropropene	0.432	0.373		13.7	30
1,1,2-Trichloroethane	0.359	0.322		10.3	30
Toluene	1.056	0.963		8.8	30
Dibromochloromethane	0.659	0.501		24.0	30
2-Hexanone(MBK)	1.039	1.034		0.5	30
1,2-Dibromoethane(EDB)	0.596	0.544		8.7	30
Tetrachloroethene	0.566	0.497		12.2	30
1,1,1,2-Tetrachloroethane	0.961	0.791		17.7	30
Chlorobenzene	1.768	1.754		0.8	30
Ethylbenzene	2.844	2.641		7.1	30
m,p-Xylene	2.126	1.606		24.5	30
Bromoform	1.281	0.862		32.7 #	30
Styrene	1.674	1.544		7.8	30
1,1,2,2-Tetrachloroethane	1.621	1.518		6.4	30
o-Xylene	2.282	2.196		3.8	30
Isopropylbenzene	3.076	3.010		2.1	30
4-Ethyltoluene	3.183	2.899		8.9	30
1,3,5-Trimethylbenzene	2.684	2.552		4.9	30
1,2,4-Trimethylbenzene	2.725	2.525		7.3	30
Benzyl chloride	2.056	1.455		29.2	30
1,3-Dichlorobenzene	1.911	1.653		13.5	30
1,4-Dichlorobenzene	1.815	1.613		11.1	30
sec-Butylbenzene	3.790	3.694		2.5	30
4-Isopropyltoluene	3.637	3.323		8.6	30
1,2-Dichlorobenzene	1.818	1.518		16.5	30
n-Butylbenzene	3.000	2.743		8.6	30
1,2,4-Trichlorobenzene	1.193	0.756		36.6 #	30
Hexachlorobutadiene	1.201	0.879		26.8	30
1,2-Dichlorotetrafluoroethane(sim)	2.202	1.957		11.1	30
Vinyl Chloride(sim)	1.054	0.973		7.7	30
Bromomethane(sim)	0.876	0.745		15.0	30
Trichlorofluoromethane(sim)	2.372	2.319		2.2	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM20 Calibration Date: 04/14/23 Time: 09:30

Lab File Id: 0414_01.D Init. Calib. Date(s): 04/10/23 04/10/23

Heated Purge (Y/N): Y Init. Calib. Times: 10:01 16:24

GC Column: RTX-1 60M Method File: 20_AIR_0410.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.625	1.403		13.7	30
1,1,1-Trichloroethane(sim)	2.208	1.946		11.9	30
Benzene(sim)	3.034	2.469		18.6	30
Carbon Tetrachloride(sim)	1.960	1.667		14.9	30
1,1-Dichloroethene(sim)	1.871	1.753		6.3	30
Trichlorotrifluoroethane(sim)	1.890	1.886		0.2	30
Trans-1,2-Dichloroethene(sim)	1.758	1.564		11.0	30
1,1-Dichloroethane(sim)	2.100	1.927		8.2	30
Cis-1,2-Dichloroethene(sim)	1.817	1.495		17.7	30
Chloroform(sim)	2.093	1.913		8.6	30
1,2-dichloropropane(sim)	0.462	0.399		13.6	30
Bromodichloromethane(sim)	0.665	0.514		22.7	30
Trichloroethene(sim)	0.506	0.427		15.6	30
1,4-Dioxane(sim)	0.190	0.179		5.8	30
cis-1,3-Dichloropropene(sim)	0.511	0.443		13.3	30
1,1,2-Trichloroethane(sim)	0.416	0.322		22.6	30
Dibromochloromethane(sim)	0.748	0.546		27.0	30
1,2-Dibromoethane(EDB)(sim)	0.639	0.544		14.9	30
Tetrachloroethene(sim)	0.742	0.596		19.7	30
Bromoform(sim)	1.500	1.047		30.2 #	30
m,p-Xylene(sim)	2.393	2.078		13.2	30
1,1,2,2-Tetrachloroethane(sim)	1.913	1.592		16.8	30
Benzyl chloride(sim)	2.123	1.390		34.5 #	30
1,3-Dichlorobenzene(sim)	2.246	1.936		13.8	30
1,4-Dichlorobenzene(sim)	2.232	1.613		27.7	30
sec-Butylbenzene(sim)	4.741	3.998		15.7	30
4-Isopropyltoluene(sim)	4.282	3.342		22.0	30
1,2-Dichlorobenzene(sim)	2.104	1.726		18.0	30
n-Butylbenzene(sim)	3.533	2.743		22.4	30
1,2,4-Trichlorobenzene(sim)	1.125	0.875		22.2	30
Hexachlorobutadiene(sim)	1.241	0.878		29.3	30
% Bromofluorobenzene	1.366	1.399		-2.4	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_01.D
 Acq On : 14 Apr 2023 9:30 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 14 11:03:27 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
1 Int	Bromochloromethane	1.000	1.000	0.0	82
2	Propylene	1.221	1.302	-6.6	
3	Dichlorodifluoromethane	2.360	2.303	2.4	
4	Chloromethane	1.264	1.370	-8.4	
5	1,2-Dichlorotetrafluoroetha	2.196	2.161	1.6	
6	Vinyl Chloride	1.004	1.001	0.3	
7	1,3-Butadiene	1.018	1.017	0.1	
8	Bromomethane	0.823	0.748	9.1	
9	Chloroethane	0.462	0.439	5.0	
11	Ethanol	0.456	0.496	-8.8	
12	Acetone	2.297	2.528	-10.1	
13	Trichlorofluoromethane	2.528	2.501	1.1	
14	Isopropylalcohol	2.058	2.227	-8.2	
15	Acrylonitrile	0.981	1.058	-7.8	
16	1,1-Dichloroethene	1.837	1.936	-5.4	
17	Methylene Chloride	1.734	1.862	-7.4	
20	Carbon Disulfide	2.279	2.395	-5.1	
21	Trichlorotrifluoroethane	1.859	1.993	-7.2	
22	Trans-1,2-Dichloroethene	1.742	1.727	0.9	
23	1,1-Dichloroethane	2.018	1.969	2.4	
24	Methyl tert-butyl ether(MTB	2.473	2.336	5.5	
26	Methyl Ethyl Ketone	3.507	3.339	4.8	
27	Cis-1,2-Dichloroethene	1.755	1.652	5.9	
28	Hexane	2.138	2.102	1.7	
29	Chloroform	2.117	1.952	7.8	
30	Ethyl acetate	0.532	0.462	13.2	
31	Tetrahydrofuran	1.991	1.996	-0.3	
32	1,2-Dichloroethane	1.621	1.549	4.4	
33	1,1,1-Trichloroethane	2.495	1.968	21.1	
34	Benzene	2.980	2.719	8.8	
35	Carbon Tetrachloride	2.171	1.721	20.7	
36	Cyclohexane	1.182	1.061	10.2	
37 Int	1,4-Difluorobenzene	1.000	1.000	0.0	83
38	1,2-dichloropropane	0.392	0.371	5.4	
39	Bromodichloromethane	0.603	0.512	15.1	
40	Trichloroethene	0.412	0.392	4.9	
42	1,4-Dioxane	0.168	0.179	-6.5	
44	Heptane	0.868	0.908	-4.6	
45	cis-1,3-Dichloropropene	0.459	0.407	11.3	
46	4-Methyl-2-pentanone(MIBK)	1.136	1.118	1.6	
47	trans-1,3-Dichloropropene	0.432	0.373	13.7	
48	1,1,2-Trichloroethane	0.359	0.322	10.3	
49	Toluene	1.056	0.963	8.8	
50	Dibromochloromethane	0.659	0.501	24.0	
51	2-Hexanone(MBK)	1.039	1.034	0.5	
52	1,2-Dibromoethane(EDB)	0.596	0.544	8.7	
53	Tetrachloroethene	0.566	0.497	12.2	
54 Int	Chlorobenzene-d5	1.000	1.000	0.0	84
55	1,1,1,2-Tetrachloroethane	0.961	0.791	17.7	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_01.D
 Acq On : 14 Apr 2023 9:30 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 14 11:03:27 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%	
56	Chlorobenzene	1.768	1.754	0.8	
57	Ethylbenzene	2.844	2.641	7.1	
58	m,p-Xylene	2.126	1.606	24.5	
59	Bromoform	1.281	0.862	32.7#	
60	Styrene	1.674	1.544	7.8	
61	1,1,2,2-Tetrachloroethane	1.621	1.518	6.4	
62	o-Xylene	2.282	2.196	3.8	
63	Surr % Bromofluorobenzene	1.366	1.399	-2.4	
65	Isopropylbenzene	3.076	3.010	2.1	
67	4-Ethyltoluene	3.183	2.899	8.9	
68	1,3,5-Trimethylbenzene	2.684	2.552	4.9	
69	1,2,4-Trimethylbenzene	2.725	2.525	7.3	
71	Benzyl chloride	2.056	1.455	29.2	
72	1,3-Dichlorobenzene	1.911	1.653	13.5	
73	1,4-Dichlorobenzene	1.815	1.613	11.1	
74	sec-Butylbenzene	3.790	3.694	2.5	
75	4-Isopropyltoluene	3.637	3.323	8.6	
76	1,2-Dichlorobenzene	1.818	1.518	16.5	
77	n-Butylbenzene	3.000	2.743	8.6	
78	1,2,4-Trichlorobenzene	1.193	0.756	36.6#	
80	Hexachlorobutadiene	1.201	0.879	26.8	
81	int Bromochloromethane(sim)	1.000	1.000	0.0	85
82	1,2-Dichlorotetrafluoroetha	2.202	1.957	11.1	
83	Vinyl Chloride(sim)	1.054	0.973	7.7	
84	Bromomethane(sim)	0.876	0.745	15.0	
85	Trichlorofluoromethane(sim)	2.372	2.319	2.2	
86	1,2-Dichloroethane(sim)	1.625	1.403	13.7	
87	1,1,1-Trichloroethane(sim)	2.208	1.946	11.9	
88	Benzene(sim)	3.034	2.469	18.6	
89	Carbon Tetrachloride(sim)	1.960	1.667	14.9	
90	1,1-Dichloroethene(sim)	1.871	1.753	6.3	
91	Trichlorotrifluoroethane(si	1.890	1.886	0.2	
92	Trans-1,2-Dichloroethene(si	1.758	1.564	11.0	
93	1,1-Dichloroethane(sim)	2.100	1.927	8.2	
94	Cis-1,2-Dichloroethene(sim)	1.817	1.495	17.7	
95	Chloroform(sim)	2.093	1.913	8.6	
96	int 1,4-Difluorobenzene(sim)	1.000	1.000	0.0	83
97	1,2-dichloropropane(sim)	0.462	0.399	13.6	
98	Bromodichloromethane(sim)	0.665	0.514	22.7	
99	Trichloroethene(sim)	0.506	0.427	15.6	
100	1,4-Dioxane(sim)	0.190	0.179	5.8	
101	cis-1,3-Dichloropropene(sim	0.511	0.443	13.3	
102	1,1,2-Trichloroethane(sim)	0.416	0.322	22.6	
103	Dibromochloromethane(sim)	0.748	0.546	27.0	
104	1,2-Dibromoethane(EDB)(sim)	0.639	0.544	14.9	
105	Tetrachloroethene(sim)	0.742	0.596	19.7	
106	int Chlorobenzene-d5(sim)	1.000	1.000	0.0	84
107	Bromoform(sim)	1.500	1.047	30.2#	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_01.D
 Acq On : 14 Apr 2023 9:30 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 14 11:03:27 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%
108	m,p-Xylene(sim)	2.393	2.078	13.2
109	1,1,2,2-Tetrachloroethane(s	1.913	1.592	16.8
112	Benzyl chloride(sim)	2.123	1.390	34.5#
113	1,3-Dichlorobenzene(sim)	2.246	1.936	13.8
114	1,4-Dichlorobenzene(sim)	2.232	1.613	27.7
115	sec-Butylbenzene(sim)	4.741	3.998	15.7
116	4-Isopropyltoluene(sim)	4.282	3.342	22.0
117	1,2-Dichlorobenzene(sim)	2.104	1.726	18.0
118	n-Butylbenzene(sim)	3.533	2.743	22.4
119	1,2,4-Trichlorobenzene(sim)	1.125	0.875	22.2
120	Hexachlorobutadiene(sim)	1.241	0.878	29.3

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_01.D
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	312030	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1144439	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	532422	10.000	ng	0.00
81) Bromochloromethane(sim)	7.530	130	344699	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1144439	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	532422	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.960	95	744703	10.242	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.40%

Target Compounds						Qvalue
2) Propylene	4.096	41	40621	1.066	ppbv	92
3) Dichlorodifluoromethane	4.171	85	71861	0.976	ppbv	96
4) Chloromethane	4.322	50	42744	1.083	ppbv	88
5) 1,2-Dichlorotetrafluor...	4.419	85	67445	0.984	ppbv	96
6) Vinyl Chloride	4.527	62	31221	0.996	ppbv	87
7) 1,3-Butadiene	4.645	54	31731	0.998	ppbv	99
8) Bromomethane	4.882	94	23343	0.909	ppbv	93
9) Chloroethane	5.023	64	13711	0.951	ppbv	89
11) Ethanol	5.141	45	15469	1.087	ppbv#	88
12) Acetone	5.518	43	78885	1.100	ppbv	97
13) Trichlorofluoromethane	5.605	101	78051	0.989	ppbv#	95
14) Isopropylalcohol	5.721	45	69500	1.082	ppbv#	95
15) Acrylonitrile	5.816	53	33017	1.079	ppbv	89
16) 1,1-Dichloroethene	6.057	61	60422	1.054	ppbv	94
17) Methylene Chloride	6.135	49	58086	1.074	ppbv	99
20) Carbon Disulfide	6.368	76	74736	1.051	ppbv	97
21) Trichlorotrifluoroethane	6.307	101	62176	1.072	ppbv	95
22) Trans-1,2-Dichloroethene	6.754	61	53903	0.992	ppbv	99
23) 1,1-Dichloroethane	6.888	63	61439	0.976	ppbv	96
24) Methyl tert-butyl ethe...	6.959	73	72895	0.945	ppbv	98
26) Methyl Ethyl Ketone	7.156	43	104185	0.952	ppbv#	97
27) Cis-1,2-Dichloroethene	7.410	61	51546	0.941	ppbv	96
28) Hexane	7.535	57	65582	0.983	ppbv	94
29) Chloroform	7.598	83	60919	0.922	ppbv	92
30) Ethyl acetate	7.546	61	14414	0.868	ppbv	99
31) Tetrahydrofuran	7.889	42	62269	1.002	ppbv	94
32) 1,2-Dichloroethane	8.067	62	48345	0.956	ppbv	96
33) 1,1,1-Trichloroethane	8.223	97	61421	0.789	ppbv	91
34) Benzene	8.498	78	84842	0.912	ppbv	97
35) Carbon Tetrachloride	8.589	117	53697	0.793	ppbv	99
36) Cyclohexane	8.668	84	33105	0.897	ppbv	94
38) 1,2-dichloropropane	8.974	63	42487	0.948	ppbv	96
39) Bromodichloromethane	9.087	83	58570	0.849	ppbv	97
40) Trichloroethene	9.110	130	44912	0.952	ppbv	99
42) 1,4-Dioxane	9.155	88	20432	1.065	ppbv#	64
44) Heptane	9.234	43	103925	1.046	ppbv	92
45) cis-1,3-Dichloropropene	9.580	75	46575	0.886	ppbv	95
46) 4-Methyl-2-pentanone(M...	9.619	43	127897	0.984	ppbv	97
47) trans-1,3-Dichloropropene	9.871	75	42646	0.862	ppbv	95
48) 1,1,2-Trichloroethane	9.988	97	36896	0.899	ppbv	94
49) Toluene	10.143	91	110245	0.912	ppbv	98
50) Dibromochloromethane	10.395	129	57330	0.760	ppbv	98

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_01.D
 Acq On : 14 Apr 2023 9:30 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 14 11:03:27 2023
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 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.279	43	118388	0.996	ppbv#	91
52)	1,2-Dibromoethane(EDB)	10.541	107	62203	0.911	ppbv	96
53)	Tetrachloroethene	10.774	166	56898	0.878	ppbv	98
55)	1,1,1,2-Tetrachloroethane	11.140	131	42105	0.823	ppbv	93
56)	Chlorobenzene	11.150	112	93373	0.992	ppbv	91
57)	Ethylbenzene	11.345	91	140599	0.929	ppbv	98
58)	m,p-Xylene	11.437	91	213719	1.888	ppbv	98
59)	Bromoform	11.519	173	45906m	0.673	ppbv	96
60)	Styrene	11.642	104	82187	0.922	ppbv	93
61)	1,1,2,2-Tetrachloroethane	11.694	83	80805	0.936	ppbv	99
62)	o-Xylene	11.704	91	116914	0.962	ppbv	98
65)	Isopropylbenzene	12.022	105	160285	0.979	ppbv	99
67)	4-Ethyltoluene	12.380	105	154355	0.911	ppbv	98
68)	1,3,5-Trimethylbenzene	12.422	105	135859	0.951	ppbv	97
69)	1,2,4-Trimethylbenzene	12.678	105	134460	0.927	ppbv	100
71)	Benzyl chloride	12.770	91	77459m	0.708	ppbv	99
72)	1,3-Dichlorobenzene	12.791	146	87984	0.865	ppbv	98
73)	1,4-Dichlorobenzene	12.832	146	85872	0.889	ppbv	95
74)	sec-Butylbenzene	12.842	105	196663	0.975	ppbv	96
75)	4-Isopropyltoluene	12.924	119	176900	0.914	ppbv	100
76)	1,2-Dichlorobenzene	13.047	146	80845	0.835	ppbv	95
77)	n-Butylbenzene	13.191	91	146025	0.914	ppbv	97
78)	1,2,4-Trichlorobenzene	14.228	180	40234m	0.634	ppbv	91
80)	Hexachlorobutadiene	14.566	225	46775m	0.731	ppbv	91
82)	1,2-Dichlorotetrafluor...	4.419	85	67451	0.889	ppbv	96
83)	Vinyl Chloride(sim)	4.532	62	33525	0.923	ppbv	98
84)	Bromomethane(sim)	4.888	94	25692m	0.851	ppbv	93
85)	Trichlorofluoromethane...	5.610	101	79932	0.978	ppbv#	98
86)	1,2-Dichloroethane(sim)	8.067	62	48345	0.863	ppbv	96
87)	1,1,1-Trichloroethane(...	8.228	97	67092	0.882	ppbv#	99
88)	Benzene(sim)	8.498	78	85094	0.814	ppbv	97
89)	Carbon Tetrachloride(sim)	8.595	117	57464	0.851	ppbv	99
90)	1,1-Dichloroethene(sim)	6.057	61	60422	0.937	ppbv	94
91)	Trichlorotrifluoroetha...	6.313	101	64997	0.997	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.754	61	53903	0.890	ppbv	98
93)	1,1-Dichloroethane(sim)	6.894	63	66440	0.918	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.410	61	51546	0.823	ppbv	96
95)	Chloroform(sim)	7.603	83	65936	0.914	ppbv	98
97)	1,2-dichloropropane(sim)	8.979	63	45672	0.864	ppbv	95
98)	Bromodichloromethane(sim)	9.087	83	58871	0.774	ppbv	97
99)	Trichloroethene(sim)	9.115	130	48912	0.844	ppbv	99
100)	1,4-Dioxane(sim)	9.155	88	20432	0.938	ppbv#	64
101)	cis-1,3-Dichloropropen...	9.586	75	50659	0.865	ppbv	100
102)	1,1,2-Trichloroethane(...	9.988	97	36896	0.775	ppbv	94
103)	Dibromochloromethane(sim)	10.401	129	62487	0.730	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.541	107	62203	0.851	ppbv	97
105)	Tetrachloroethene(sim)	10.780	166	68162	0.803	ppbv	99
107)	Bromoform(sim)	11.515	173	55757m	0.698	ppbv	100
108)	m,p-Xylene(sim)	11.437	91	221252	1.737	ppbv	97
109)	1,1,2,2-Tetrachloroeth...	11.699	83	84754	0.832	ppbv	99
112)	Benzyl chloride(sim)	12.770	91	73983	0.655	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.797	146	103097	0.862	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.832	146	85872	0.723	ppbv	94
115)	sec-Butylbenzene(sim)	12.838	105	212883	0.843	ppbv	99
116)	4-Isopropyltoluene(sim)	12.924	119	177930	0.780	ppbv	100

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QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration

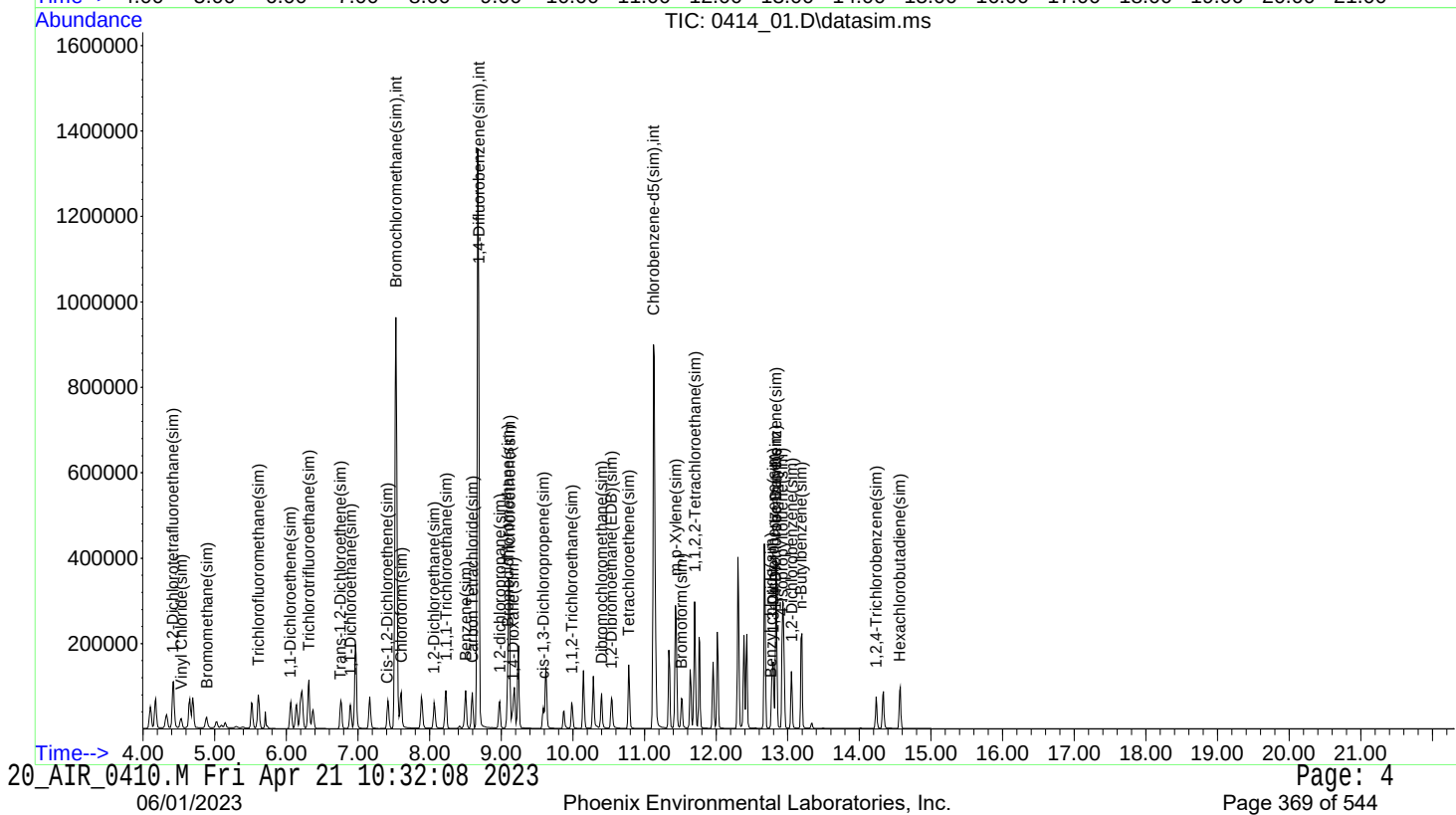
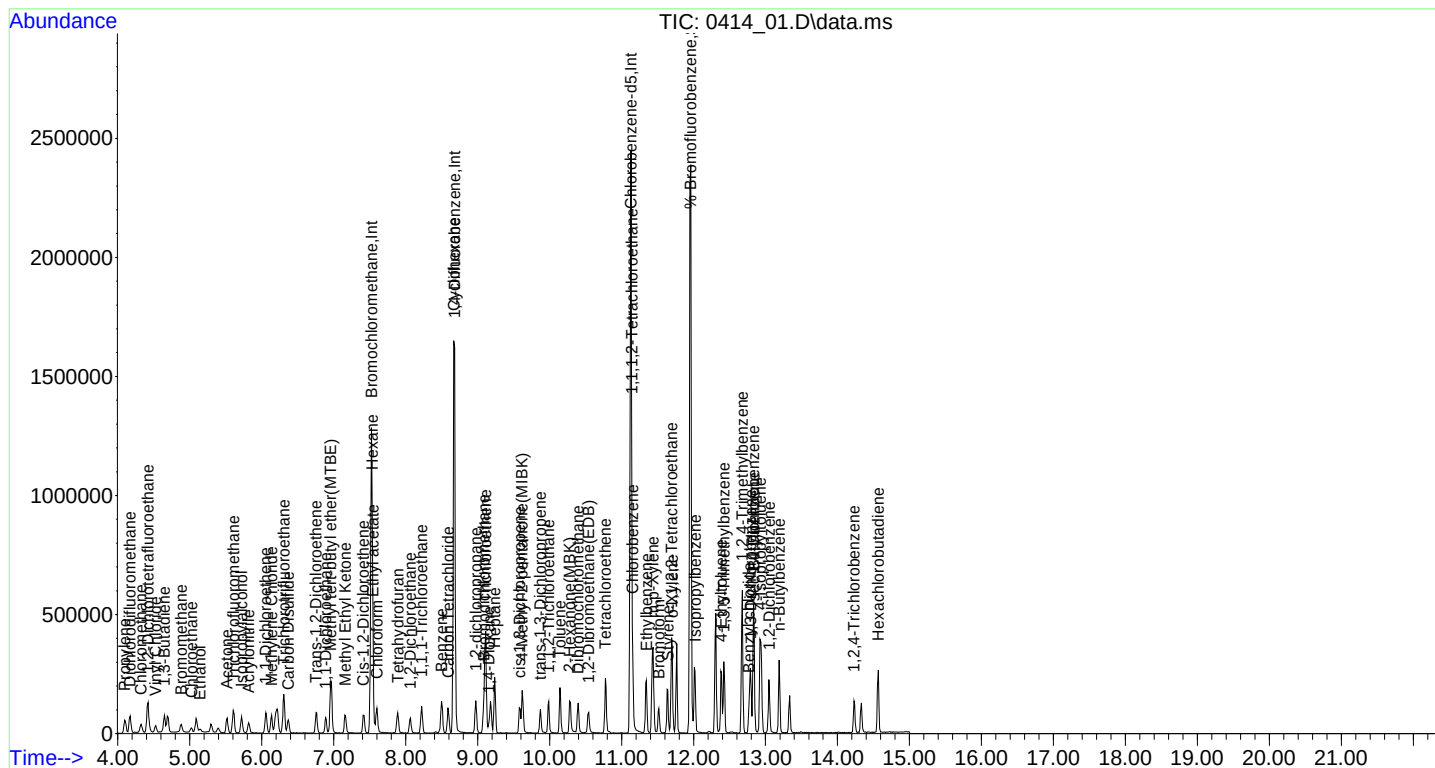
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.053	146	91877	0.820	ppbv	100
118]	n-Butylbenzene(sim)	13.191	91	146025	0.776	ppbv	97
119]	1,2,4-Trichlorobenzene...	14.233	180	46573	0.777	ppbv	99
120]	Hexachlorobutadiene(sim)	14.566	225	46754	0.708	ppbv	90

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

```
Data Path   : H:\AIR2023\CHEM20\04APR\10\  
Data File  : 0414_01.D  
Acq On     : 14 Apr 2023   9:30 am  
Operator   :  
Client ID  : BFB TUNE - CCAL 1  
Lab ID     : 1ppb ccal - 1ppb ccal  
ALS Vial   : 29 Sample Multiplier: 1
```

Quant Time: Apr 14 11:03:27 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM20 Calibration Date: 04/17/23 Time: 09:07

Lab File Id: 0417_02.D Init. Calib. Date(s): 04/10/23 04/10/23

Heated Purge (Y/N): Y Init. Calib. Times: 10:01 16:24

GC Column: RTX-1 60M Method File: 20_AIR_0410.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	1.221	1.248		-2.2	30
Dichlorodifluoromethane	2.360	2.282		3.3	30
Chloromethane	1.264	1.285		-1.7	30
1,2-Dichlorotetrafluoroethane	2.196	2.100		4.4	30
Vinyl Chloride	1.004	0.994		1.0	30
1,3-Butadiene	1.018	0.966		5.1	30
Bromomethane	0.823	0.763		7.3	30
Chloroethane	0.462	0.416		10.0	30
Ethanol	0.456	0.419		8.1	30
Acetone	2.297	2.355		-2.5	30
Trichlorofluoromethane	2.528	2.383		5.7	30
Isopropylalcohol	2.058	1.580		23.2	30
Acrylonitrile	0.981	0.902		8.1	30
1,1-Dichloroethene	1.837	1.761		4.1	30
Methylene Chloride	1.734	1.738		-0.2	30
Carbon Disulfide	2.279	2.165		5.0	30
Trichlorotrifluoroethane	1.859	1.737		6.6	30
Trans-1,2-Dichloroethene	1.742	1.657		4.9	30
1,1-Dichloroethane	2.018	1.958		3.0	30
Methyl tert-butyl ether(MTBE)	2.473	2.371		4.1	30
Methyl Ethyl Ketone	3.507	3.575		-1.9	30
Cis-1,2-Dichloroethene	1.755	1.659		5.5	30
Hexane	2.138	2.063		3.5	30
Chloroform	2.117	1.885		11.0	30
Ethyl acetate	0.532	0.482		9.4	30
Tetrahydrofuran	1.991	1.854		6.9	30
1,2-Dichloroethane	1.621	1.538		5.1	30
1,1,1-Trichloroethane	2.495	2.153		13.7	30
Benzene	2.980	2.707		9.2	30
Carbon Tetrachloride	2.171	1.552		28.5	30
Cyclohexane	1.182	1.150		2.7	30
1,2-dichloropropane	0.392	0.379		3.3	30
Bromodichloromethane	0.603	0.494		18.1	30
Trichloroethene	0.412	0.397		3.6	30
1,4-Dioxane	0.168	0.156		7.1	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM20 Calibration Date: 04/17/23 Time: 09:07

Lab File Id: 0417_02.D Init. Calib. Date(s): 04/10/23 04/10/23

Heated Purge (Y/N): Y Init. Calib. Times: 10:01 16:24

GC Column: RTX-1 60M Method File: 20_AIR_0410.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.868	0.863		0.6	30
cis-1,3-Dichloropropene	0.459	0.400		12.9	30
4-Methyl-2-pentanone(MIBK)	1.136	1.144		-0.7	30
trans-1,3-Dichloropropene	0.432	0.390		9.7	30
1,1,2-Trichloroethane	0.359	0.340		5.3	30
Toluene	1.056	0.978		7.4	30
Dibromochloromethane	0.659	0.476		27.8	30
2-Hexanone(MBK)	1.039	1.026		1.3	30
1,2-Dibromoethane(EDB)	0.596	0.553		7.2	30
Tetrachloroethene	0.566	0.527		6.9	30
1,1,1,2-Tetrachloroethane	0.961	0.778		19.0	30
Chlorobenzene	1.768	1.740		1.6	30
Ethylbenzene	2.844	2.677		5.9	30
m,p-Xylene	2.126	1.708		19.7	30
Bromoform	1.281	0.842		34.3 #	30
Styrene	1.674	1.638		2.2	30
1,1,2,2-Tetrachloroethane	1.621	1.562		3.6	30
o-Xylene	2.282	2.207		3.3	30
Isopropylbenzene	3.076	2.991		2.8	30
4-Ethyltoluene	3.183	3.050		4.2	30
1,3,5-Trimethylbenzene	2.684	2.573		4.1	30
1,2,4-Trimethylbenzene	2.725	2.551		6.4	30
Benzyl chloride	2.056	1.519		26.1	30
1,3-Dichlorobenzene	1.911	1.808		5.4	30
1,4-Dichlorobenzene	1.815	1.629		10.2	30
sec-Butylbenzene	3.790	3.692		2.6	30
4-Isopropyltoluene	3.637	3.437		5.5	30
1,2-Dichlorobenzene	1.818	1.660		8.7	30
n-Butylbenzene	3.000	2.863		4.6	30
1,2,4-Trichlorobenzene	1.193	0.840		29.6	30
Hexachlorobutadiene	1.201	0.906		24.6	30
1,2-Dichlorotetrafluoroethane(sim)	2.202	1.950		11.4	30
Vinyl Chloride(sim)	1.054	0.954		9.5	30
Bromomethane(sim)	0.876	0.709		19.1	30
Trichlorofluoromethane(sim)	2.372	2.170		8.5	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM20 Calibration Date: 04/17/23 Time: 09:07

Lab File Id: 0417_02.D Init. Calib. Date(s): 04/10/23 04/10/23

Heated Purge (Y/N): Y Init. Calib. Times: 10:01 16:24

GC Column: RTX-1 60M Method File: 20_AIR_0410.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.625	1.430		12.0	30
1,1,1-Trichloroethane(sim)	2.208	1.907		13.6	30
Benzene(sim)	3.034	2.516		17.1	30
Carbon Tetrachloride(sim)	1.960	1.555		20.7	30
1,1-Dichloroethene(sim)	1.871	1.637		12.5	30
Trichlorotrifluoroethane(sim)	1.890	1.728		8.6	30
Trans-1,2-Dichloroethene(sim)	1.758	1.540		12.4	30
1,1-Dichloroethane(sim)	2.100	1.949		7.2	30
Cis-1,2-Dichloroethene(sim)	1.817	1.542		15.1	30
Chloroform(sim)	2.093	1.898		9.3	30
1,2-dichloropropane(sim)	0.462	0.360		22.1	30
Bromodichloromethane(sim)	0.665	0.474		28.7	30
Trichloroethene(sim)	0.506	0.391		22.7	30
1,4-Dioxane(sim)	0.190	0.143		24.7	30
cis-1,3-Dichloropropene(sim)	0.511	0.403		21.1	30
1,1,2-Trichloroethane(sim)	0.416	0.309		25.7	30
Dibromochloromethane(sim)	0.748	0.469		37.3 #	30
1,2-Dibromoethane(EDB)(sim)	0.639	0.503		21.3	30
Tetrachloroethene(sim)	0.742	0.545		26.5	30
Bromoform(sim)	1.500	0.961		35.9 #	30
m,p-Xylene(sim)	2.393	2.176		9.1	30
1,1,2,2-Tetrachloroethane(sim)	1.913	1.576		17.6	30
Benzyl chloride(sim)	2.123	1.589		25.2	30
1,3-Dichlorobenzene(sim)	2.246	2.032		9.5	30
1,4-Dichlorobenzene(sim)	2.232	1.622		27.3	30
sec-Butylbenzene(sim)	4.741	4.056		14.4	30
4-Isopropyltoluene(sim)	4.282	3.438		19.7	30
1,2-Dichlorobenzene(sim)	2.104	1.772		15.8	30
n-Butylbenzene(sim)	3.533	2.851		19.3	30
1,2,4-Trichlorobenzene(sim)	1.125	0.987		12.3	30
Hexachlorobutadiene(sim)	1.241	0.887		28.5	30
% Bromofluorobenzene	1.366	1.436		-5.1	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 9:07 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 17 13:28:31 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
1 Int	Bromochloromethane	1.000	1.000	0.0	84
2	Propylene	1.221	1.248	-2.2	
3	Dichlorodifluoromethane	2.360	2.282	3.3	
4	Chloromethane	1.264	1.285	-1.7	
5	1,2-Dichlorotetrafluoroetha	2.196	2.100	4.4	
6	Vinyl Chloride	1.004	0.994	1.0	
7	1,3-Butadiene	1.018	0.966	5.1	
8	Bromomethane	0.823	0.763	7.3	
9	Chloroethane	0.462	0.416	10.0	
11	Ethanol	0.456	0.419	8.1	
12	Acetone	2.297	2.355	-2.5	
13	Trichlorofluoromethane	2.528	2.383	5.7	
14	Isopropylalcohol	2.058	1.580	23.2	
15	Acrylonitrile	0.981	0.902	8.1	
16	1,1-Dichloroethene	1.837	1.761	4.1	
17	Methylene Chloride	1.734	1.738	-0.2	
20	Carbon Disulfide	2.279	2.165	5.0	
21	Trichlorotrifluoroethane	1.859	1.737	6.6	
22	Trans-1,2-Dichloroethene	1.742	1.657	4.9	
23	1,1-Dichloroethane	2.018	1.958	3.0	
24	Methyl tert-butyl ether(MTB	2.473	2.371	4.1	
26	Methyl Ethyl Ketone	3.507	3.575	-1.9	
27	Cis-1,2-Dichloroethene	1.755	1.659	5.5	
28	Hexane	2.138	2.063	3.5	
29	Chloroform	2.117	1.885	11.0	
30	Ethyl acetate	0.532	0.482	9.4	
31	Tetrahydrofuran	1.991	1.854	6.9	
32	1,2-Dichloroethane	1.621	1.538	5.1	
33	1,1,1-Trichloroethane	2.495	2.153	13.7	
34	Benzene	2.980	2.707	9.2	
35	Carbon Tetrachloride	2.171	1.552	28.5	
36	Cyclohexane	1.182	1.150	2.7	
37 Int	1,4-Difluorobenzene	1.000	1.000	0.0	83
38	1,2-dichloropropane	0.392	0.379	3.3	
39	Bromodichloromethane	0.603	0.494	18.1	
40	Trichloroethene	0.412	0.397	3.6	
42	1,4-Dioxane	0.168	0.156	7.1	
44	Heptane	0.868	0.863	0.6	
45	cis-1,3-Dichloropropene	0.459	0.400	12.9	
46	4-Methyl-2-pentanone(MIBK)	1.136	1.144	-0.7	
47	trans-1,3-Dichloropropene	0.432	0.390	9.7	
48	1,1,2-Trichloroethane	0.359	0.340	5.3	
49	Toluene	1.056	0.978	7.4	
50	Dibromochloromethane	0.659	0.476	27.8	
51	2-Hexanone(MBK)	1.039	1.026	1.3	
52	1,2-Dibromoethane(EDB)	0.596	0.553	7.2	
53	Tetrachloroethene	0.566	0.527	6.9	
54 Int	Chlorobenzene-d5	1.000	1.000	0.0	84
55	1,1,1,2-Tetrachloroethane	0.961	0.778	19.0	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 9:07 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 17 13:28:31 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%	
56	Chlorobenzene	1.768	1.740	1.6	
57	Ethylbenzene	2.844	2.677	5.9	
58	m,p-Xylene	2.126	1.708	19.7	
59	Bromoform	1.281	0.842	34.3#	
60	Styrene	1.674	1.638	2.2	
61	1,1,2,2-Tetrachloroethane	1.621	1.562	3.6	
62	o-Xylene	2.282	2.207	3.3	
63	Surr % Bromofluorobenzene	1.366	1.436	-5.1	
65	Isopropylbenzene	3.076	2.991	2.8	
67	4-Ethyltoluene	3.183	3.050	4.2	
68	1,3,5-Trimethylbenzene	2.684	2.573	4.1	
69	1,2,4-Trimethylbenzene	2.725	2.551	6.4	
71	Benzyl chloride	2.056	1.519	26.1	
72	1,3-Dichlorobenzene	1.911	1.808	5.4	
73	1,4-Dichlorobenzene	1.815	1.629	10.2	
74	sec-Butylbenzene	3.790	3.692	2.6	
75	4-Isopropyltoluene	3.637	3.437	5.5	
76	1,2-Dichlorobenzene	1.818	1.660	8.7	
77	n-Butylbenzene	3.000	2.863	4.6	
78	1,2,4-Trichlorobenzene	1.193	0.840	29.6	
80	Hexachlorobutadiene	1.201	0.906	24.6	
81	int Bromochloromethane(sim)	1.000	1.000	0.0	84
82	1,2-Dichlorotetrafluoroetha	2.202	1.950	11.4	
83	Vinyl Chloride(sim)	1.054	0.954	9.5	
84	Bromomethane(sim)	0.876	0.709	19.1	
85	Trichlorofluoromethane(sim)	2.372	2.170	8.5	
86	1,2-Dichloroethane(sim)	1.625	1.430	12.0	
87	1,1,1-Trichloroethane(sim)	2.208	1.907	13.6	
88	Benzene(sim)	3.034	2.516	17.1	
89	Carbon Tetrachloride(sim)	1.960	1.555	20.7	
90	1,1-Dichloroethene(sim)	1.871	1.637	12.5	
91	Trichlorotrifluoroethane(si	1.890	1.728	8.6	
92	Trans-1,2-Dichloroethene(si	1.758	1.540	12.4	
93	1,1-Dichloroethane(sim)	2.100	1.949	7.2	
94	Cis-1,2-Dichloroethene(sim)	1.817	1.542	15.1	
95	Chloroform(sim)	2.093	1.898	9.3	
96	int 1,4-Difluorobenzene(sim)	1.000	1.000	0.0	91
97	1,2-dichloropropane(sim)	0.462	0.360	22.1	
98	Bromodichloromethane(sim)	0.665	0.474	28.7	
99	Trichloroethene(sim)	0.506	0.391	22.7	
100	1,4-Dioxane(sim)	0.190	0.143	24.7	
101	cis-1,3-Dichloropropene(sim	0.511	0.403	21.1	
102	1,1,2-Trichloroethane(sim)	0.416	0.309	25.7	
103	Dibromochloromethane(sim)	0.748	0.469	37.3#	
104	1,2-Dibromoethane(EDB)(sim)	0.639	0.503	21.3	
105	Tetrachloroethene(sim)	0.742	0.545	26.5	
106	int Chlorobenzene-d5(sim)	1.000	1.000	0.0	84
107	Bromoform(sim)	1.500	0.961	35.9#	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 9:07 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 17 13:28:31 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%
108	m,p-Xylene(sim)	2.393	2.176	9.1
109	1,1,2,2-Tetrachloroethane(s	1.913	1.576	17.6
112	Benzyl chloride(sim)	2.123	1.589	25.2
113	1,3-Dichlorobenzene(sim)	2.246	2.032	9.5
114	1,4-Dichlorobenzene(sim)	2.232	1.622	27.3
115	sec-Butylbenzene(sim)	4.741	4.056	14.4
116	4-Isopropyltoluene(sim)	4.282	3.438	19.7
117	1,2-Dichlorobenzene(sim)	2.104	1.772	15.8
118	n-Butylbenzene(sim)	3.533	2.851	19.3
119	1,2,4-Trichlorobenzene(sim)	1.125	0.987	12.3
120	Hexachlorobutadiene(sim)	1.241	0.887	28.5

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 9:07 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 17 13:28:31 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	318074	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1149563	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	529842	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	342198	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.674	114	1261621m	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	532099	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	760714	10.514	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	105.10%

Target Compounds						Qvalue
2) Propylene	4.096	41	39680	1.021	ppbv	91
3) Dichlorodifluoromethane	4.171	85	72572	0.967	ppbv	97
4) Chloromethane	4.322	50	40878	1.016	ppbv	93
5) 1,2-Dichlorotetrafluor...	4.408	85	66798	0.956	ppbv	99
6) Vinyl Chloride	4.527	62	31620	0.990	ppbv	90
7) 1,3-Butadiene	4.645	54	30713	0.948	ppbv	97
8) Bromomethane	4.872	94	24263	0.927	ppbv	92
9) Chloroethane	5.023	64	13244	0.901	ppbv	86
11) Ethanol	5.141	45	13314	0.917	ppbv#	89
12) Acetone	5.508	43	74896	1.025	ppbv	95
13) Trichlorofluoromethane	5.605	101	75785	0.942	ppbv#	92
14) Isopropylalcohol	5.691	45	50271m	0.768	ppbv	87
15) Acrylonitrile	5.816	53	28704	0.920	ppbv	98
16) 1,1-Dichloroethene	6.057	61	56005	0.959	ppbv	92
17) Methylene Chloride	6.135	49	55277	1.002	ppbv	97
20) Carbon Disulfide	6.359	76	68861	0.950	ppbv	97
21) Trichlorotrifluoroethane	6.299	101	55234	0.934	ppbv	96
22) Trans-1,2-Dichloroethene	6.754	61	52689	0.951	ppbv	93
23) 1,1-Dichloroethane	6.888	63	62278	0.970	ppbv	96
24) Methyl tert-butyl ethe...	6.952	73	75408	0.959	ppbv	98
26) Methyl Ethyl Ketone	7.156	43	113718	1.019	ppbv	96
27) Cis-1,2-Dichloroethene	7.410	61	52773	0.945	ppbv	98
28) Hexane	7.525	57	65615	0.965	ppbv	99
29) Chloroform	7.598	83	59968	0.891	ppbv	94
30) Ethyl acetate	7.546	61	15339	0.906	ppbv	91
31) Tetrahydrofuran	7.879	42	58974	0.931	ppbv	97
32) 1,2-Dichloroethane	8.067	62	48932	0.949	ppbv	94
33) 1,1,1-Trichloroethane	8.223	97	68468	0.863	ppbv	99
34) Benzene	8.499	78	86106	0.908	ppbv	98
35) Carbon Tetrachloride	8.589	117	49367m	0.715	ppbv	95
36) Cyclohexane	8.668	84	36584	0.973	ppbv	90
38) 1,2-dichloropropane	8.974	63	43599	0.968	ppbv	98
39) Bromodichloromethane	9.087	83	56785	0.819	ppbv	97
40) Trichloroethene	9.110	130	45639	0.963	ppbv	96
42) 1,4-Dioxane	9.132	88	17990	0.934	ppbv#	86
44) Heptane	9.234	43	99215	0.995	ppbv	94
45) cis-1,3-Dichloropropene	9.580	75	46000	0.871	ppbv	97
46) 4-Methyl-2-pentanone(M...	9.609	43	131563	1.007	ppbv	95
47) trans-1,3-Dichloropropene	9.871	75	44817	0.901	ppbv	96
48) 1,1,2-Trichloroethane	9.988	97	39038	0.947	ppbv	98
49) Toluene	10.143	91	112438	0.926	ppbv	100
50) Dibromochloromethane	10.396	129	54692	0.722	ppbv	98

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 9:07 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 17 13:28:31 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.269	43	117985	0.988	ppbv	95
52)	1,2-Dibromoethane(EDB)	10.541	107	63547	0.927	ppbv	95
53)	Tetrachloroethene	10.774	166	60606	0.931	ppbv	93
55)	1,1,1,2-Tetrachloroethane	11.140	131	41227	0.809	ppbv	97
56)	Chlorobenzene	11.150	112	92211	0.984	ppbv	95
57)	Ethylbenzene	11.345	91	141837	0.941	ppbv	98
58)	m,p-Xylene	11.437	91	226182	2.008	ppbv	96
59)	Bromoform	11.519	173	44594m	0.657	ppbv	97
60)	Styrene	11.632	104	86768	0.978	ppbv	97
61)	1,1,2,2-Tetrachloroethane	11.694	83	82747	0.963	ppbv	98
62)	o-Xylene	11.694	91	116961	0.967	ppbv	99
65)	Isopropylbenzene	12.011	105	158459	0.972	ppbv	99
67)	4-Ethyltoluene	12.381	105	161603	0.958	ppbv	98
68)	1,3,5-Trimethylbenzene	12.422	105	136345	0.959	ppbv	96
69)	1,2,4-Trimethylbenzene	12.678	105	135152	0.936	ppbv	99
71)	Benzyl chloride	12.771	91	80496m	0.739	ppbv	96
72)	1,3-Dichlorobenzene	12.791	146	95815	0.946	ppbv	96
73)	1,4-Dichlorobenzene	12.832	146	86297	0.897	ppbv	99
74)	sec-Butylbenzene	12.832	105	195641	0.974	ppbv	96
75)	4-Isopropyltoluene	12.924	119	182081	0.945	ppbv	99
76)	1,2-Dichlorobenzene	13.048	146	87936	0.913	ppbv	96
77)	n-Butylbenzene	13.191	91	151692	0.954	ppbv	98
78)	1,2,4-Trichlorobenzene	14.228	180	44486	0.704	ppbv	92
80)	Hexachlorobutadiene	14.566	225	47999	0.754	ppbv	92
82)	1,2-Dichlorotetrafluor...	4.408	85	66744	0.886	ppbv	99
83)	Vinyl Chloride(sim)	4.522	62	32646	0.905	ppbv	98
84)	Bromomethane(sim)	4.872	94	24263	0.809	ppbv	93
85)	Trichlorofluoromethane...	5.610	101	74254	0.915	ppbv#	97
86)	1,2-Dichloroethane(sim)	8.067	62	48932	0.880	ppbv	94
87)	1,1,1-Trichloroethane(...	8.228	97	65264	0.864	ppbv#	98
88)	Benzene(sim)	8.499	78	86106	0.829	ppbv	98
89)	Carbon Tetrachloride(sim)	8.595	117	53208	0.793	ppbv	100
90)	1,1-Dichloroethene(sim)	6.057	61	56005	0.875	ppbv	92
91)	Trichlorotrifluoroetha...	6.304	101	59122	0.914	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.754	61	52689	0.876	ppbv	92
93)	1,1-Dichloroethane(sim)	6.894	63	66704	0.928	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.410	61	52773	0.849	ppbv	98
95)	Chloroform(sim)	7.603	83	64966	0.907	ppbv	99
97)	1,2-dichloropropane(sim)	8.979	63	45408	0.779	ppbv	98
98)	Bromodichloromethane(sim)	9.081	83	59796m	0.713	ppbv	
99)	Trichloroethene(sim)	9.104	130	49360	0.772	ppbv	100
100)	1,4-Dioxane(sim)	9.132	88	17990	0.749	ppbv#	86
101)	cis-1,3-Dichloropropen...	9.586	75	50825	0.788	ppbv	100
102)	1,1,2-Trichloroethane(...	9.988	97	39038	0.744	ppbv	98
103)	Dibromochloromethane(sim)	10.401	129	59189m	0.627	ppbv	
104)	1,2-Dibromoethane(EDB)...	10.541	107	63464	0.787	ppbv	95
105)	Tetrachloroethene(sim)	10.780	166	68790	0.735	ppbv	99
107)	Bromoform(sim)	11.515	173	51144m	0.641	ppbv	99
108)	m,p-Xylene(sim)	11.437	91	231607	1.819	ppbv	95
109)	1,1,2,2-Tetrachloroeth...	11.699	83	83843	0.824	ppbv	99
112)	Benzyl chloride(sim)	12.776	91	84529m	0.748	ppbv	96
113)	1,3-Dichlorobenzene(sim)	12.797	146	108103	0.904	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.832	146	86297	0.727	ppbv	98
115)	sec-Butylbenzene(sim)	12.838	105	215809	0.855	ppbv	99
116)	4-Isopropyltoluene(sim)	12.924	119	182943	0.803	ppbv	98

Data Path : H:\AIR2023\CHEM20\04APR\17\
Data File : 0417_02.D
Acq On : 17 Apr 2023 9:07 am
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb ccal - 1ppb ccal
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 17 13:28:31 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration

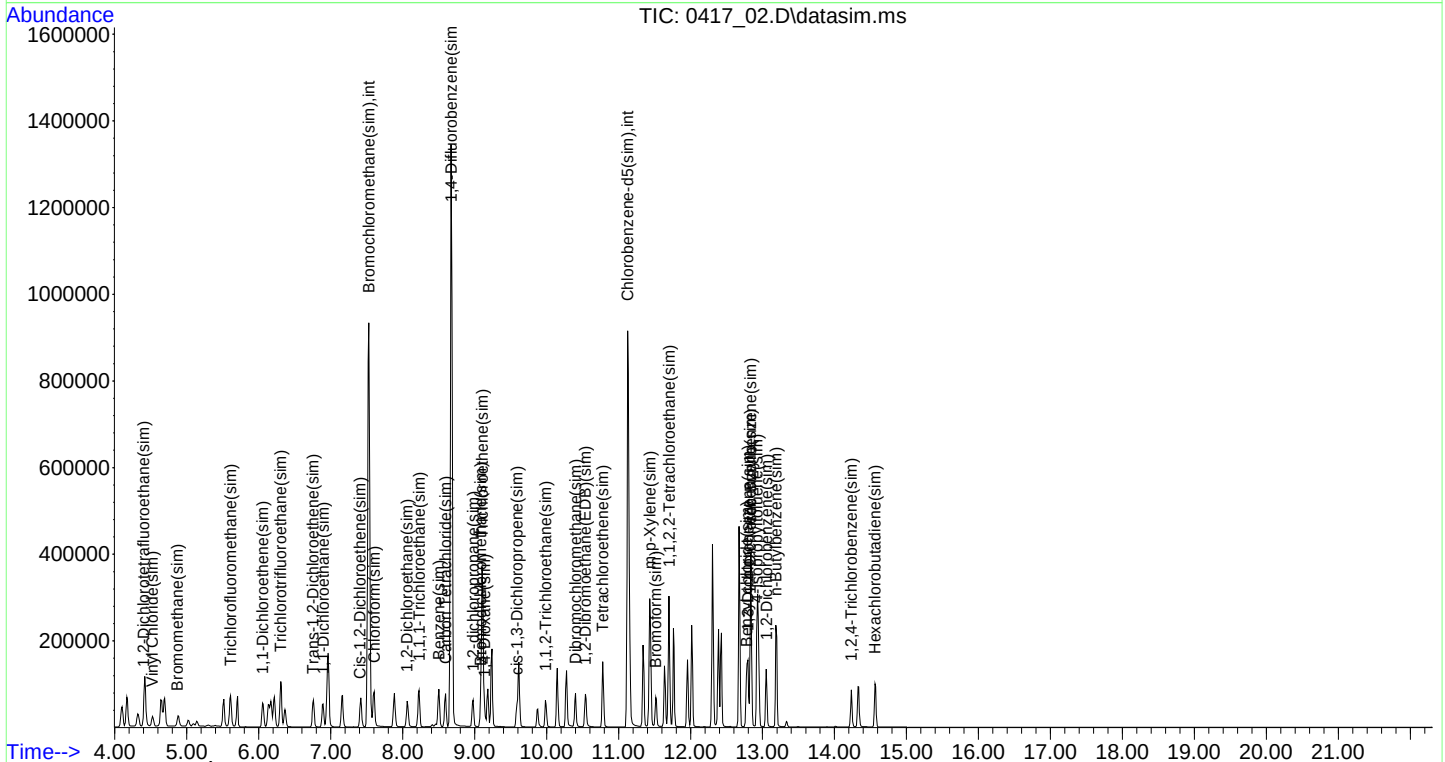
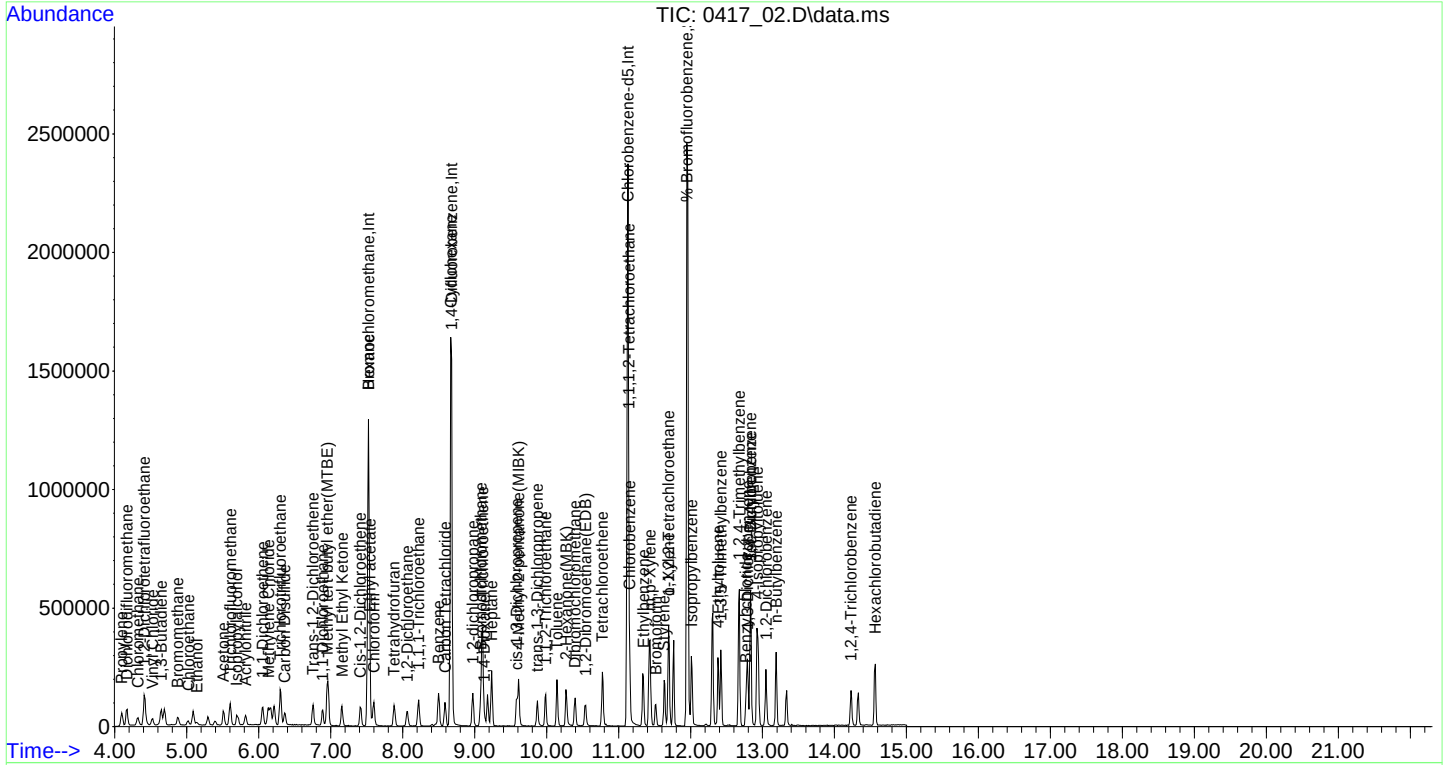
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.053	146	94300	0.842	ppbv	99
118]	n-Butylbenzene(sim)	13.191	91	151692	0.807	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.233	180	52519	0.877	ppbv	99
120]	Hexachlorobutadiene(sim)	14.566	225	47195	0.715	ppbv	93

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 9:07 am
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Apr 17 13:28:31 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM39 Calibration Date: 04/17/23 Time: 12:14

Lab File Id: 0417_02.D Init. Calib. Date(s): 04/13/23 04/14/23

Heated Purge (Y/N): Y Init. Calib. Times: 17:29 00:57

GC Column: RTX-1 ; #10157 Method File: 39_AIR_0413.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	0.555	0.511		7.9	30
Dichlorodifluoromethane	2.094	2.093		0.0	30
Chloromethane	0.568	0.530		6.7	30
1,2-Dichlorotetrafluoroethane	2.067	2.090		-1.1	30
Vinyl Chloride	0.730	0.706		3.3	30
1,3-Butadiene	0.520	0.480		7.7	30
Bromomethane	0.812	0.800		1.5	30
Chloroethane	0.368	0.320		13.0	30
Ethanol	0.192	0.166		13.5	30
Acetone	1.011	1.054		-4.3	30
Trichlorofluoromethane	2.075	2.078		-0.1	30
Isopropylalcohol	1.196	1.312		-9.7	30
Acrylonitrile	0.499	0.448		10.2	30
1,1-Dichloroethene	1.184	1.152		2.7	30
Methylene Chloride	0.746	0.702		5.9	30
Carbon Disulfide	2.217	2.178		1.8	30
Trichlorotrifluoroethane	1.771	1.783		-0.7	30
Trans-1,2-Dichloroethene	1.277	1.184		7.3	30
1,1-Dichloroethane	1.599	1.492		6.7	30
Methyl tert-butyl ether(MTBE)	2.459	2.296		6.6	30
Methyl Ethyl Ketone	1.604	1.318		17.8	30
Cis-1,2-Dichloroethene	1.215	1.132		6.8	30
Hexane	1.354	1.272		6.1	30
Chloroform	1.959	1.873		4.4	30
Ethyl acetate	0.392	0.344		12.2	30
Tetrahydrofuran	0.892	0.790		11.4	30
1,2-Dichloroethane	1.069	1.004		6.1	30
1,1,1-Trichloroethane	1.921	1.692		11.9	30
Benzene	3.061	2.875		6.1	30
Carbon Tetrachloride	2.073	1.624		21.7	30
Cyclohexane	1.210	1.134		6.3	30
1,2-dichloropropane	0.321	0.292		9.0	30
Bromodichloromethane	0.555	0.491		11.5	30
Trichloroethene	0.423	0.401		5.2	30
1,4-Dioxane	0.187	0.180		3.7	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM39 Calibration Date: 04/17/23 Time: 12:14

Lab File Id: 0417_02.D Init. Calib. Date(s): 04/13/23 04/14/23

Heated Purge (Y/N): Y Init. Calib. Times: 17:29 00:57

GC Column: RTX-1 ; #10157 Method File: 39_AIR_0413.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.417	0.380		8.9	30
cis-1,3-Dichloropropene	0.475	0.423		10.9	30
4-Methyl-2-pentanone(MIBK)	0.527	0.493		6.5	30
trans-1,3-Dichloropropene	0.429	0.370		13.8	30
1,1,2-Trichloroethane	0.364	0.349		4.1	30
Toluene	1.090	1.031		5.4	30
Dibromochloromethane	0.696	0.542		22.1	30
2-Hexanone(MBK)	0.499	0.449		10.0	30
1,2-Dibromoethane(EDB)	0.601	0.565		6.0	30
Tetrachloroethene	0.612	0.562		8.2	30
1,1,1,2-Tetrachloroethane	0.929	0.788		15.2	30
Chlorobenzene	1.791	1.773		1.0	30
Ethylbenzene	2.782	2.740		1.5	30
m,p-Xylene	2.112	1.695		19.7	30
Bromoform qfi	1.000	0.70		30.0 #	20
Styrene	1.724	1.650		4.3	30
1,1,2,2-Tetrachloroethane	1.587	1.536		3.2	30
o-Xylene	2.191	2.134		2.6	30
Isopropylbenzene	3.009	3.005		0.1	30
4-Ethyltoluene	3.186	3.129		1.8	30
1,3,5-Trimethylbenzene	2.592	2.395		7.6	30
1,2,4-Trimethylbenzene	2.629	2.468		6.1	30
Benzyl chloride	2.134	1.500		29.7	30
1,3-Dichlorobenzene	1.973	1.861		5.7	30
1,4-Dichlorobenzene	1.920	1.741		9.3	30
sec-Butylbenzene	3.708	3.746		-1.0	30
4-Isopropyltoluene	3.515	3.423		2.6	30
1,2-Dichlorobenzene	1.853	1.614		12.9	30
n-Butylbenzene	2.937	2.894		1.5	30
1,2,4-Trichlorobenzene	1.509	1.223		19.0	30
Hexachlorobutadiene	1.412	1.145		18.9	30
1,2-Dichlorotetrafluoroethane(sim)	2.224	2.176		2.2	30
Vinyl Chloride(sim)	0.775	0.727		6.2	30
Bromomethane(sim)	0.885	0.835		5.6	30
Trichlorofluoromethane(sim)	2.179	2.201		-1.0	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM39 Calibration Date: 04/17/23 Time: 12:14

Lab File Id: 0417_02.D Init. Calib. Date(s): 04/13/23 04/14/23

Heated Purge (Y/N): Y Init. Calib. Times: 17:29 00:57

GC Column: RTX-1 ; #10157 Method File: 39_AIR_0413.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.116	1.048		6.1	30
1,1,1-Trichloroethane(sim)	2.069	1.856		10.3	30
Benzene(sim)	3.603	3.001		16.7	30
Carbon Tetrachloride(sim)	2.073	1.676		19.2	30
1,1-Dichloroethene(sim)	1.274	1.203		5.6	30
Trichlorotrifluoroethane(sim)	1.875	1.857		1.0	30
Trans-1,2-Dichloroethene(sim)	1.340	1.237		7.7	30
1,1-Dichloroethane(sim)	1.689	1.579		6.5	30
Cis-1,2-Dichloroethene(sim)	1.282	1.182		7.8	30
Chloroform(sim)	2.219	1.947		12.3	30
1,2-dichloropropane(sim)	0.327	0.303		7.3	30
Bromodichloromethane(sim)	0.572	0.491		14.2	30
Trichloroethene(sim)	0.417	0.396		5.0	30
1,4-Dioxane(sim)	0.192	0.180		6.3	30
cis-1,3-Dichloropropene(sim)	0.475	0.432		9.1	30
1,1,2-Trichloroethane(sim)	0.369	0.349		5.4	30
Dibromochloromethane(sim)	0.642	0.527		17.9	30
1,2-Dibromoethane(EDB)(sim)	0.609	0.563		7.6	30
Tetrachloroethene(sim)	0.615	0.540		12.2	30
Bromoform(sim)	1.472	1.063		27.8	30
m,p-Xylene(sim)	2.241	2.134		4.8	30
1,1,2,2-Tetrachloroethane(sim)	1.712	1.519		11.3	30
Benzyl chloride(sim)	2.282	1.499		34.3 #	30
1,3-Dichlorobenzene(sim)	2.158	1.816		15.8	30
1,4-Dichlorobenzene(sim) qfi	1.000	0.84		16.0	20
sec-Butylbenzene(sim)	2.943	2.621		10.9	30
4-Isopropyltoluene(sim)	3.821	3.421		10.5	30
1,2-Dichlorobenzene(sim)	1.976	1.656		16.2	30
n-Butylbenzene(sim)	3.083	2.892		6.2	30
1,2,4-Trichlorobenzene(sim)	1.485	1.247		16.0	30
Hexachlorobutadiene(sim) qfi	1.000	0.91		9.0	20
% Bromofluorobenzene	1.393	1.438		-3.2	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 12:14 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Apr 18 09:14:22 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%
1 Int	Bromochloromethane	1.000	1.000	0.0	93
2	Propylene	0.555	0.511	7.9	
3	Dichlorodifluoromethane	2.094	2.093	0.0	
4	Chloromethane	0.568	0.530	6.7	
5	1,2-Dichlorotetrafluoroetha	2.067	2.090	-1.1	
6	Vinyl Chloride	0.730	0.706	3.3	
7	1,3-Butadiene	0.520	0.480	7.7	
8	Bromomethane	0.812	0.800	1.5	
9	Chloroethane	0.368	0.320	13.0	
11	Ethanol	0.192	0.166	13.5	
12	Acetone	1.011	1.054	-4.3	
13	Trichlorofluoromethane	2.075	2.078	-0.1	
14	Isopropylalcohol	1.196	1.312	-9.7	
15	Acrylonitrile	0.499	0.448	10.2	
16	1,1-Dichloroethene	1.184	1.152	2.7	
17	Methylene Chloride	0.746	0.702	5.9	
20	Carbon Disulfide	2.217	2.178	1.8	
21	Trichlorotrifluoroethane	1.771	1.783	-0.7	
22	Trans-1,2-Dichloroethene	1.277	1.184	7.3	
23	1,1-Dichloroethane	1.599	1.492	6.7	
24	Methyl tert-butyl ether(MTB)	2.459	2.296	6.6	
26	Methyl Ethyl Ketone	1.604	1.318	17.8	
27	Cis-1,2-Dichloroethene	1.215	1.132	6.8	
28	Hexane	1.354	1.272	6.1	
29	Chloroform	1.959	1.873	4.4	
30	Ethyl acetate	0.392	0.344	12.2	
31	Tetrahydrofuran	0.892	0.790	11.4	
32	1,2-Dichloroethane	1.069	1.004	6.1	
33	1,1,1-Trichloroethane	1.921	1.692	11.9	
34	Benzene	3.061	2.875	6.1	
35	Carbon Tetrachloride	2.073	1.624	21.7	
36	Cyclohexane	1.210	1.134	6.3	
37 Int	1,4-Difluorobenzene	1.000	1.000	0.0	93
38	1,2-dichloropropane	0.321	0.292	9.0	
39	Bromodichloromethane	0.555	0.491	11.5	
40	Trichloroethene	0.423	0.401	5.2	
42	1,4-Dioxane	0.187	0.180	3.7	
44	Heptane	0.417	0.380	8.9	
45	cis-1,3-Dichloropropene	0.475	0.423	10.9	
46	4-Methyl-2-pentanone(MIBK)	0.527	0.493	6.5	
47	trans-1,3-Dichloropropene	0.429	0.370	13.8	
48	1,1,2-Trichloroethane	0.364	0.349	4.1	
49	Toluene	1.090	1.031	5.4	
50	Dibromochloromethane	0.696	0.542	22.1	
51	2-Hexanone(MBK)	0.499	0.449	10.0	
52	1,2-Dibromoethane(EDB)	0.601	0.565	6.0	
53	Tetrachloroethene	0.612	0.562	8.2	
54 Int	Chlorobenzene-d5	1.000	1.000	0.0	91
55	1,1,1,2-Tetrachloroethane	0.929	0.788	15.2	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 12:14 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Apr 18 09:14:22 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%	
56	Chlorobenzene	1.791	1.773	1.0	
57	Ethylbenzene	2.782	2.740	1.5	
58	m,p-Xylene	2.112	1.695	19.7	
59	qf Bromoform	1.000	0.702	29.8	
60	Styrene	1.724	1.650	4.3	
61	1,1,2,2-Tetrachloroethane	1.587	1.536	3.2	
62	o-Xylene	2.191	2.134	2.6	
63	Surr % Bromofluorobenzene	1.393	1.438	-3.2	
65	Isopropylbenzene	3.009	3.005	0.1	
67	4-Ethyltoluene	3.186	3.129	1.8	
68	1,3,5-Trimethylbenzene	2.592	2.395	7.6	
69	1,2,4-Trimethylbenzene	2.629	2.468	6.1	
71	Benzyl chloride	2.134	1.500	29.7	
72	1,3-Dichlorobenzene	1.973	1.861	5.7	
73	1,4-Dichlorobenzene	1.920	1.741	9.3	
74	sec-Butylbenzene	3.708	3.746	-1.0	
75	4-Isopropyltoluene	3.515	3.423	2.6	
76	1,2-Dichlorobenzene	1.853	1.614	12.9	
77	n-Butylbenzene	2.937	2.894	1.5	
78	1,2,4-Trichlorobenzene	1.509	1.223	19.0	
80	Hexachlorobutadiene	1.412	1.145	18.9	
81	int Bromochloromethane(sim)	1.000	1.000	0.0	95
82	1,2-Dichlorotetrafluoroetha	2.224	2.176	2.2	
83	Vinyl Chloride(sim)	0.775	0.727	6.2	
84	Bromomethane(sim)	0.885	0.835	5.6	
85	Trichlorofluoromethane(sim)	2.179	2.201	-1.0	
86	1,2-Dichloroethane(sim)	1.116	1.048	6.1	
87	1,1,1-Trichloroethane(sim)	2.069	1.856	10.3	
88	Benzene(sim)	3.603	3.001	16.7	
89	Carbon Tetrachloride(sim)	2.073	1.676	19.2	
90	1,1-Dichloroethene(sim)	1.274	1.203	5.6	
91	Trichlorotrifluoroethane(si	1.875	1.857	1.0	
92	Trans-1,2-Dichloroethene(si	1.340	1.237	7.7	
93	1,1-Dichloroethane(sim)	1.689	1.579	6.5	
94	Cis-1,2-Dichloroethene(sim)	1.282	1.182	7.8	
95	Chloroform(sim)	2.219	1.947	12.3	
96	int 1,4-Difluorobenzene(sim)	1.000	1.000	0.0	93
97	1,2-dichloropropane(sim)	0.327	0.303	7.3	
98	Bromodichloromethane(sim)	0.572	0.491	14.2	
99	Trichloroethene(sim)	0.417	0.396	5.0	
100	1,4-Dioxane(sim)	0.192	0.180	6.3	
101	cis-1,3-Dichloropropene(sim	0.475	0.432	9.1	
102	1,1,2-Trichloroethane(sim)	0.369	0.349	5.4	
103	Dibromochloromethane(sim)	0.642	0.527	17.9	
104	1,2-Dibromoethane(EDB)(sim)	0.609	0.563	7.6	
105	Tetrachloroethene(sim)	0.615	0.540	12.2	
106	int Chlorobenzene-d5(sim)	1.000	1.000	0.0	90
107	Bromoform(sim)	1.472	1.063	27.8	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 12:14 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Apr 18 09:14:22 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%
108	m,p-Xylene(sim)	2.241	2.134	4.8
109	1,1,2,2-Tetrachloroethane(s	1.712	1.519	11.3
112	Benzyl chloride(sim)	2.282	1.499	34.3#
113	1,3-Dichlorobenzene(sim)	2.158	1.816	15.8
114 qf	1,4-Dichlorobenzene(sim)	1.000	0.840	16.0#
115	sec-Butylbenzene(sim)	2.943	2.621	10.9
116	4-Isopropyltoluene(sim)	3.821	3.421	10.5
117	1,2-Dichlorobenzene(sim)	1.976	1.656	16.2
118	n-Butylbenzene(sim)	3.083	2.892	6.2
119	1,2,4-Trichlorobenzene(sim)	1.485	1.247	16.0
121 qf	Hexachlorobutadiene(sim)	1.000	0.913	8.7

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 12:14 pm
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 Lab ID : 1ppb ccal - 1ppb ccal
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Quant Time: Apr 18 09:14:22 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.513	130	382388	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.678	114	1400507	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	656025	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	366260	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.678	114	1400205	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	656282	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.982	95	943329	10.323	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.20%

Target Compounds						Qvalue
2) Propylene	4.016	41	19543	0.921	ppbv	97
3) Dichlorodifluoromethane	4.089	85	80042	0.999	ppbv	99
4) Chloromethane	4.243	50	20258	0.933	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.341	85	79920	1.011	ppbv	100
6) Vinyl Chloride	4.446	62	27000	0.967	ppbv	98
7) 1,3-Butadiene	4.576	54	18364	0.923	ppbv#	95
8) Bromomethane	4.811	94	30583	0.985	ppbv	99
9) Chloroethane	4.949	64	12232	0.869	ppbv	98
11) Ethanol	5.055	45	6347	0.863	ppbv	97
12) Acetone	5.436	43	40295	1.042	ppbv	100
13) Trichlorofluoromethane	5.553	101	79472	1.001	ppbv	98
14) Isopropylalcohol	5.621	45	50186	1.098	ppbv	98
15) Acrylonitrile	5.762	53	17149	0.898	ppbv	99
16) 1,1-Dichloroethene	6.013	61	44068	0.973	ppbv	96
17) Methylene Chloride	6.091	49	26839	0.941	ppbv	94
20) Carbon Disulfide	6.329	76	83285	0.982	ppbv	100
21) Trichlorotrifluoroethane	6.263	101	68198	1.007	ppbv	97
22) Trans-1,2-Dichloroethene	6.728	61	45293	0.927	ppbv	97
23) 1,1-Dichloroethane	6.859	63	57042	0.933	ppbv	99
24) Methyl tert-butyl ethe...	6.912	73	87786	0.934	ppbv	99
26) Methyl Ethyl Ketone	7.125	43	50405	0.822	ppbv	99
27) Cis-1,2-Dichloroethene	7.394	61	43275	0.931	ppbv	98
28) Hexane	7.513	57	48648	0.939	ppbv	97
29) Chloroform	7.584	83	71637	0.956	ppbv	99
30) Ethyl acetate	7.521	61	13157	0.878	ppbv	94
31) Tetrahydrofuran	7.862	42	30197	0.885	ppbv	98
32) 1,2-Dichloroethane	8.052	62	38393	0.939	ppbv	99
33) 1,1,1-Trichloroethane	8.219	97	64717	0.881	ppbv	99
34) Benzene	8.496	78	109931	0.939	ppbv	99
35) Carbon Tetrachloride	8.591	117	62109	0.783	ppbv	98
36) Cyclohexane	8.669	84	43374	0.937	ppbv	94
38) 1,2-dichloropropane	8.981	63	40892	0.909	ppbv	97
39) Bromodichloromethane	9.093	83	68740	0.884	ppbv	100
40) Trichloroethene	9.111	130	56188	0.949	ppbv	98
42) 1,4-Dioxane	9.128	88	25214	0.962	ppbv	98
44) Heptane	9.249	43	53187	0.911	ppbv	97
45) cis-1,3-Dichloropropene	9.596	75	59243	0.890	ppbv	100
46) 4-Methyl-2-pentanone(M...	9.617	43	68978	0.934	ppbv	100
47) trans-1,3-Dichloropropene	9.885	75	51876	0.862	ppbv	99
48) 1,1,2-Trichloroethane	9.998	97	48849	0.959	ppbv	99
49) Toluene	10.159	91	144444	0.947	ppbv	99
50) Dibromochloromethane	10.413	129	75973	0.779	ppbv	98

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 12:14 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Apr 18 09:14:22 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.286	43	62918	0.900	ppbv	98
52)	1,2-Dibromoethane(EDB)	10.554	107	79108	0.939	ppbv	100
53)	Tetrachloroethene	10.800	166	78644	0.917	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.163	131	51725	0.849	ppbv	98
56)	Chlorobenzene	11.178	112	116283	0.990	ppbv	93
57)	Ethylbenzene	11.367	91	179753	0.985	ppbv	100
58)	m,p-Xylene	11.458	91	278064	2.007	ppbv	99
59)	Bromoform	11.542	173	75984	0.702	ppbv	99
60)	Styrene	11.663	104	108245	0.957	ppbv	99
61)	1,1,2,2-Tetrachloroethane	11.724	83	100780	0.968	ppbv	98
62)	o-Xylene	11.724	91	139994	0.974	ppbv	99
65)	Isopropylbenzene	12.042	105	197145	0.999	ppbv	99
67)	4-Ethyltoluene	12.414	105	205262	0.982	ppbv	99
68)	1,3,5-Trimethylbenzene	12.452	105	157090	0.924	ppbv	99
69)	1,2,4-Trimethylbenzene	12.711	105	161932	0.939	ppbv	99
71)	Benzyl chloride	12.809	91	98375	0.703	ppbv	98
72)	1,3-Dichlorobenzene	12.824	146	122093	0.943	ppbv	99
73)	1,4-Dichlorobenzene	12.862	146	114242	0.907	ppbv	99
74)	sec-Butylbenzene	12.870	105	245721	1.010	ppbv	99
75)	4-Isopropyltoluene	12.961	119	224540	0.974	ppbv	100
76)	1,2-Dichlorobenzene	13.083	146	105855	0.871	ppbv	100
77)	n-Butylbenzene	13.227	91	189828	0.985	ppbv	98
78)	1,2,4-Trichlorobenzene	14.283	180	80207	0.810	ppbv	100
80)	Hexachlorobutadiene	14.632	225	75084	0.811	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.341	85	79692	0.979	ppbv	99
83)	Vinyl Chloride(sim)	4.449	62	26643	0.938	ppbv	100
84)	Bromomethane(sim)	4.811	94	30583	0.943	ppbv	99
85)	Trichlorofluoromethane...	5.556	101	80613	1.010	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.052	62	38393	0.940	ppbv	99
87)	1,1,1-Trichloroethane(...	8.222	97	67987	0.897	ppbv#	99
88)	Benzene(sim)	8.496	78	109931	0.833	ppbv	99
89)	Carbon Tetrachloride(sim)	8.594	117	61367	0.808	ppbv	99
90)	1,1-Dichloroethene(sim)	6.013	61	44068	0.944	ppbv	96
91)	Trichlorotrifluoroetha...	6.266	101	68030	0.991	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.728	61	45293	0.923	ppbv	97
93)	1,1-Dichloroethane(sim)	6.862	63	57817	0.935	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.394	61	43275	0.922	ppbv	98
95)	Chloroform(sim)	7.587	83	71293	0.877	ppbv	100
97)	1,2-dichloropropane(sim)	8.975	63	42371	0.925	ppbv	99
98)	Bromodichloromethane(sim)	9.093	83	68740	0.858	ppbv	100
99)	Trichloroethene(sim)	9.113	130	55515	0.951	ppbv	100
100)	1,4-Dioxane(sim)	9.128	88	25214	0.940	ppbv	98
101)	cis-1,3-Dichloropropen...	9.592	75	60438	0.909	ppbv	100
102)	1,1,2-Trichloroethane(...	9.998	97	48849	0.946	ppbv	98
103)	Dibromochloromethane(sim)	10.416	129	73810	0.821	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.554	107	78822	0.924	ppbv	99
105)	Tetrachloroethene(sim)	10.796	166	75675	0.879	ppbv	99
107)	Bromoform(sim)	11.545	173	69752	0.722	ppbv	100
108)	m,p-Xylene(sim)	11.458	91	280160	1.905	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.727	83	99681	0.887	ppbv	99
112)	Benzyl chloride(sim)	12.809	91	98375	0.657	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.827	146	119168	0.842	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.862	146	114156	0.840	ppbv	99
115)	sec-Butylbenzene(sim)	12.706	105	172015	0.891	ppbv	98
116)	4-Isopropyltoluene(sim)	12.961	119	224540	0.895	ppbv	100

Data Path : H:\AIR2023\CHEM39\04APR\17\
Data File : 0417_02.D
Acq On : 17 Apr 2023 12:14 pm
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb ccal - 1ppb ccal
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Apr 18 09:14:22 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:21:21 2023
Response via : Initial Calibration

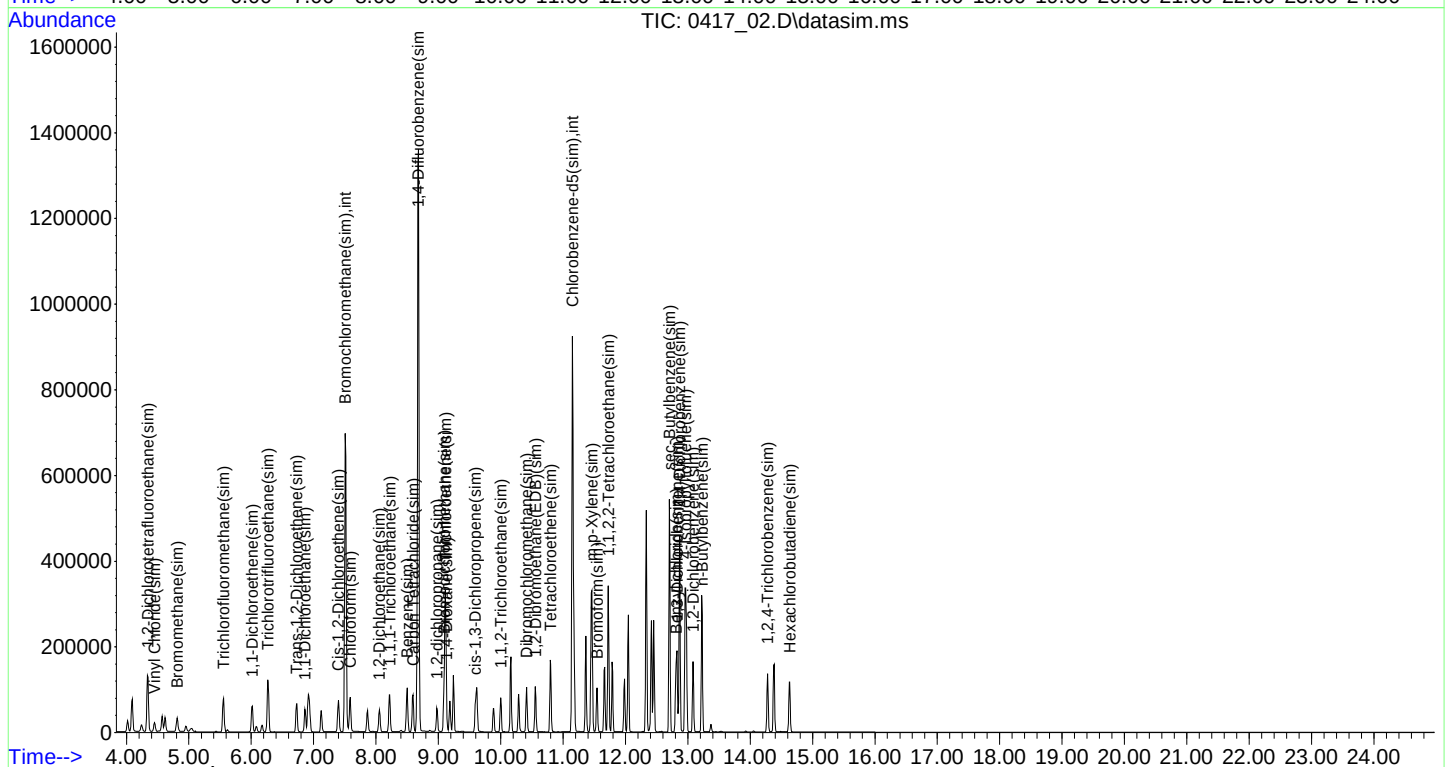
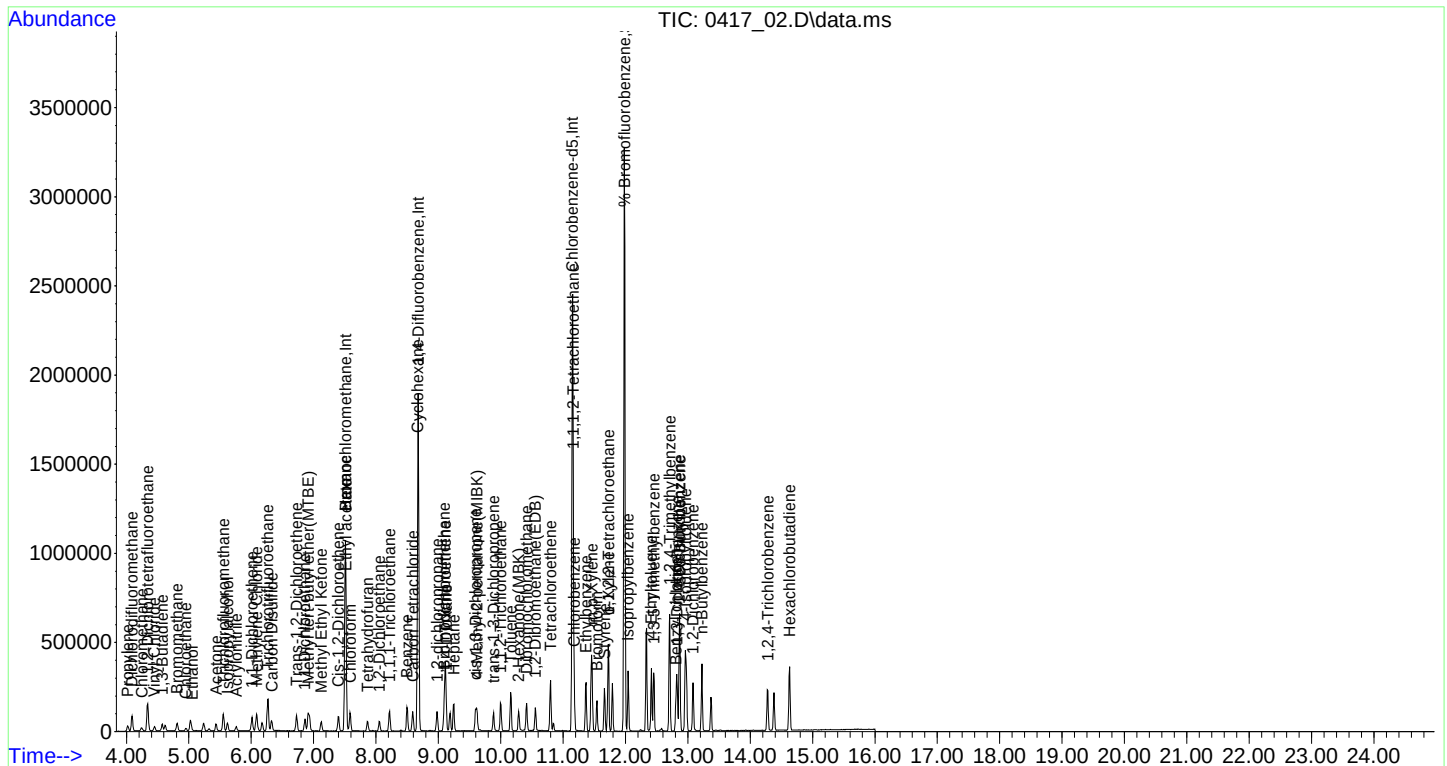
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.086	146	108706	0.838	ppbv	100
118]	n-Butylbenzene(sim)	13.227	91	189828	0.938	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.278	180	81862	0.840	ppbv	100
121]	Hexachlorobutadiene(sim)	14.635	225	71992	0.913	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_02.D
 Acq On : 17 Apr 2023 12:14 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Apr 18 09:14:22 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN82795 LCS
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN82795 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>0414_03.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>04/13/23</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	11.4		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	10.7		0.202	0.202	r
74-87-3	Chloromethane	11.1		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	10.7		0.143	0.143	r
75-01-4	Vinyl Chloride	10.6		0.078	0.078	r
106-99-0	1,3-Butadiene	10.6		0.452	0.452	r
74-83-9	Bromomethane	10.2		0.258	0.258	r
75-00-3	Chloroethane	9.87		0.379	0.379	r
64-17-5	Ethanol	15.1		0.531	0.531	r
67-64-1	Acetone	11.4		0.421	0.421	r
75-69-4	Trichlorofluoromethane	11.5		0.178	0.178	r
67-63-0	Isopropylalcohol	11.5		0.407	0.407	r
107-13-1	Acrylonitrile	11.6		0.461	0.461	r
75-35-4	1,1-Dichloroethene	11.3		0.051	0.051	r
75-09-2	Methylene Chloride	11.8		0.863	0.863	r
75-15-0	Carbon Disulfide	11.7		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	11.4		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	11.0		0.252	0.252	r
75-34-3	1,1-Dichloroethane	10.6		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	10.6		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	12.3		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	10.4		0.051	0.051	r
110-54-3	Hexane	10.7		0.284	0.284	r
67-66-3	Chloroform	10.5		0.205	0.205	r
141-78-6	Ethyl acetate	7.94		0.278	0.278	r
109-99-9	Tetrahydrofuran	11.2		0.339	0.339	r
107-06-2	1,2-Dichloroethane	11.1		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	10.5		0.183	0.183	r
71-43-2	Benzene	10.0		0.313	0.313	r
56-23-5	Carbon Tetrachloride	10.1		0.032	0.032	r
110-82-7	Cyclohexane	9.88		0.291	0.291	r
78-87-5	1,2-dichloropropane	10.4		0.217	0.217	r
75-27-4	Bromodichloromethane	10.5		0.149	0.149	r
79-01-6	Trichloroethene	10.2		0.037	0.037	r
123-91-1	1,4-Dioxane	10.5		0.278	0.278	r
142-82-5	Heptane	11.3		0.244	0.244	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN82795 LCS
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN82795 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>0414_03.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>04/13/23</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
10061-01-5	cis-1,3-Dichloropropene	10.4		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	11.5		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	10.3		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	10.3		0.183	0.183	r
108-88-3	Toluene	10.3		0.266	0.266	r
124-48-1	Dibromochloromethane	10.1		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	11.8		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	10.3		0.130	0.130	r
127-18-4	Tetrachloroethene	9.81		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	9.55		0.146	0.146	r
108-90-7	Chlorobenzene	9.91		0.217	0.217	r
100-41-4	Ethylbenzene	9.83		0.230	0.230	r
179601-23-1	m,p-Xylene	20.2		0.230	0.230	r
75-25-2	Bromoform	9.54		0.097	0.097	r
100-42-5	Styrene	10.1		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	10.2		0.146	0.146	r
95-47-6	o-Xylene	9.67		0.230	0.230	r
98-82-8	Isopropylbenzene	10.1		0.204	0.204	r
622-96-8	4-Ethyltoluene	10.4		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	10.2		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	10.4		0.204	0.204	r
100-44-7	Benzyl chloride	10.9		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	10.4		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	10.1		0.166	0.166	r
135-98-8	sec-Butylbenzene	10.2		0.182	0.182	r
99-87-6	4-Isopropyltoluene	10.0		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	10.4		0.166	0.166	r
104-51-8	n-Butylbenzene	10.2		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	11.5		0.135	0.135	r
87-68-3	Hexachlorobutadiene	11.5		0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_03.D
 Acq On : 14 Apr 2023 10:33 am
 Operator :
 Client ID : CN82795 LCS
 Lab ID : CN82795 LCS
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Apr 14 11:06:23 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	300488	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1118614	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	554941	10.000	ng	0.00
81) Bromochloromethane(sim)	7.530	130	335655	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1118614	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	554941	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	734383	9.691	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.90%

Target Compounds						Qvalue
2) Propylene	4.096	41	418990	11.417	ppbv	92
3) Dichlorodifluoromethane	4.171	85	755656	10.658	ppbv	96
4) Chloromethane	4.322	50	421373	11.090	ppbv	89
5) 1,2-Dichlorotetrafluor...	4.419	85	704691	10.680	ppbv	97
6) Vinyl Chloride	4.527	62	319641	10.593	ppbv	90
7) 1,3-Butadiene	4.645	54	323676	10.576	ppbv	96
8) Bromomethane	4.882	94	253428	10.245	ppbv	91
9) Chloroethane	5.023	64	137107	9.872	ppbv	87
11) Ethanol	5.120	45	207176	15.111	ppbv#	80
12) Acetone	5.497	43	786724	11.396	ppbv	97
13) Trichlorofluoromethane	5.605	101	877032	11.545	ppbv#	98
14) Isopropylalcohol	5.691	45	711369	11.502	ppbv#	97
15) Acrylonitrile	5.807	53	342043	11.603	ppbv#	86
16) 1,1-Dichloroethene	6.057	61	621541	11.261	ppbv	95
17) Methylene Chloride	6.135	49	613577	11.775	ppbv	99
20) Carbon Disulfide	6.368	76	798462	11.658	ppbv	97
21) Trichlorotrifluoroethane	6.307	101	638492	11.428	ppbv	97
22) Trans-1,2-Dichloroethene	6.754	61	576104	11.006	ppbv	97
23) 1,1-Dichloroethane	6.888	63	639697	10.549	ppbv	97
24) Methyl tert-butyl ethe...	6.928	73	788154	10.608	ppbv	100
26) Methyl Ethyl Ketone	7.133	43	1294491	12.282	ppbv#	94
27) Cis-1,2-Dichloroethene	7.410	61	549344	10.418	ppbv	97
28) Hexane	7.535	57	685920	10.679	ppbv	96
29) Chloroform	7.598	83	668051	10.504	ppbv	97
30) Ethyl acetate	7.525	61	126957	7.942	ppbv	95
31) Tetrahydrofuran	7.869	42	668094	11.166	ppbv	93
32) 1,2-Dichloroethane	8.056	62	542421	11.137	ppbv	92
33) 1,1,1-Trichloroethane	8.223	97	786125	10.484	ppbv	93
34) Benzene	8.498	78	898720	10.036	ppbv	98
35) Carbon Tetrachloride	8.589	117	658384	10.093	ppbv	98
36) Cyclohexane	8.668	84	351077	9.882	ppbv#	85
38) 1,2-dichloropropane	8.974	63	456371	10.413	ppbv	97
39) Bromodichloromethane	9.087	83	709630	10.521	ppbv	96
40) Trichloroethene	9.110	130	470286	10.194	ppbv	99
42) 1,4-Dioxane	9.121	88	197406	10.529	ppbv#	83
44) Heptane	9.234	43	1096067	11.291	ppbv	92
45) cis-1,3-Dichloropropene	9.580	75	532298	10.362	ppbv	96
46) 4-Methyl-2-pentanone(M...	9.600	43	1457325	11.469	ppbv	95
47) trans-1,3-Dichloropropene	9.871	75	498578	10.306	ppbv	98
48) 1,1,2-Trichloroethane	9.978	97	413660	10.314	ppbv	98
49) Toluene	10.143	91	1211413	10.254	ppbv	99
50) Dibromochloromethane	10.395	129	742694	10.069	ppbv	95

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_03.D
 Acq On : 14 Apr 2023 10:33 am
 Operator :
 Client ID : CN82795 LCS
 Lab ID : CN82795 LCS
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Apr 14 11:06:23 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.269	43	1368409	11.779	ppbv	93
52)	1,2-Dibromoethane(EDB)	10.531	107	688020	10.315	ppbv	98
53)	Tetrachloroethene	10.774	166	620837	9.806	ppbv	98
55)	1,1,1,2-Tetrachloroethane	11.140	131	509666	9.552	ppbv	96
56)	Chlorobenzene	11.150	112	972649	9.911	ppbv	86
57)	Ethylbenzene	11.335	91	1550745	9.827	ppbv	99
58)	m,p-Xylene	11.437	91	2386431	20.229	ppbv	97
59)	Bromoform	11.519	173	677935	9.539	ppbv	99
60)	Styrene	11.632	104	937070	10.085	ppbv	96
61)	1,1,2,2-Tetrachloroethane	11.694	83	918792	10.213	ppbv	96
62)	o-Xylene	11.694	91	1224957	9.673	ppbv	100
65)	Isopropylbenzene	12.011	105	1721616	10.084	ppbv	100
67)	4-Ethyltoluene	12.380	105	1832033	10.370	ppbv	100
68)	1,3,5-Trimethylbenzene	12.421	105	1518063	10.193	ppbv	97
69)	1,2,4-Trimethylbenzene	12.678	105	1565731	10.354	ppbv	98
71)	Benzyl chloride	12.770	91	1244827	10.912	ppbv	97
72)	1,3-Dichlorobenzene	12.791	146	1097613	10.350	ppbv	98
73)	1,4-Dichlorobenzene	12.832	146	1018904	10.115	ppbv	98
74)	sec-Butylbenzene	12.832	105	2146602	10.206	ppbv	96
75)	4-Isopropyltoluene	12.924	119	2023881	10.028	ppbv	99
76)	1,2-Dichlorobenzene	13.047	146	1048784	10.396	ppbv	95
77)	n-Butylbenzene	13.191	91	1703754	10.232	ppbv	99
78)	1,2,4-Trichlorobenzene	14.227	180	763416	11.535	ppbv	93
80)	Hexachlorobutadiene	14.566	225	764633	11.471	ppbv	93
82)	1,2-Dichlorotetrafluor...	4.419	85	703990	9.524	ppbv	97
83)	Vinyl Chloride(sim)	4.532	62	348274	9.847	ppbv	98
84)	Bromomethane(sim)	4.882	94	253428	8.619	ppbv	91
85)	Trichlorofluoromethane...	5.610	101	824407	10.354	ppbv#	96
86)	1,2-Dichloroethane(sim)	8.056	62	542421	9.946	ppbv	92
87)	1,1,1-Trichloroethane(...	8.228	97	749535	10.116	ppbv#	98
88)	Benzene(sim)	8.498	78	899057	8.828	ppbv	98
89)	Carbon Tetrachloride(sim)	8.595	117	707743	10.759	ppbv	100
90)	1,1-Dichloroethene(sim)	6.057	61	621541	9.898	ppbv	95
91)	Trichlorotrifluoroetha...	6.313	101	682806	10.761	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.754	61	576104	9.764	ppbv	96
93)	1,1-Dichloroethane(sim)	6.894	63	700689	9.940	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.410	61	549344	9.005	ppbv	97
95)	Chloroform(sim)	7.603	83	701612	9.989	ppbv	99
97)	1,2-dichloropropane(sim)	8.979	63	493519	9.550	ppbv	96
98)	Bromodichloromethane(sim)	9.087	83	710120	9.549	ppbv	96
99)	Trichloroethene(sim)	9.104	130	518539	9.152	ppbv	99
100)	1,4-Dioxane(sim)	9.121	88	197406	9.275	ppbv#	83
101)	cis-1,3-Dichloropropen...	9.586	75	586934	10.258	ppbv	99
102)	1,1,2-Trichloroethane(...	9.978	97	413850	8.896	ppbv	99
103)	Dibromochloromethane(sim)	10.401	129	824506	9.857	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.531	107	688020	9.628	ppbv	98
105)	Tetrachloroethene(sim)	10.779	166	738650	8.899	ppbv	99
107)	Bromoform(sim)	11.515	173	785484	9.436	ppbv	100
108)	m,p-Xylene(sim)	11.437	91	2412621	18.168	ppbv	96
109)	1,1,2,2-Tetrachloroeth...	11.699	83	961484	9.055	ppbv	98
112)	Benzyl chloride(sim)	12.770	91	1244827	10.566	ppbv	97
113)	1,3-Dichlorobenzene(sim)	12.796	146	1287777	10.331	ppbv	100
114)	1,4-Dichlorobenzene(sim)	12.832	146	1018904	8.226	ppbv	97
115)	sec-Butylbenzene(sim)	12.838	105	2348416	8.926	ppbv	100
116)	4-Isopropyltoluene(sim)	12.924	119	2025790	8.525	ppbv	99

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0414_03.D
Acq On : 14 Apr 2023 10:33 am
Operator :
Client ID : CN82795 LCS
Lab ID : CN82795 LCS
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Apr 14 11:06:23 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration

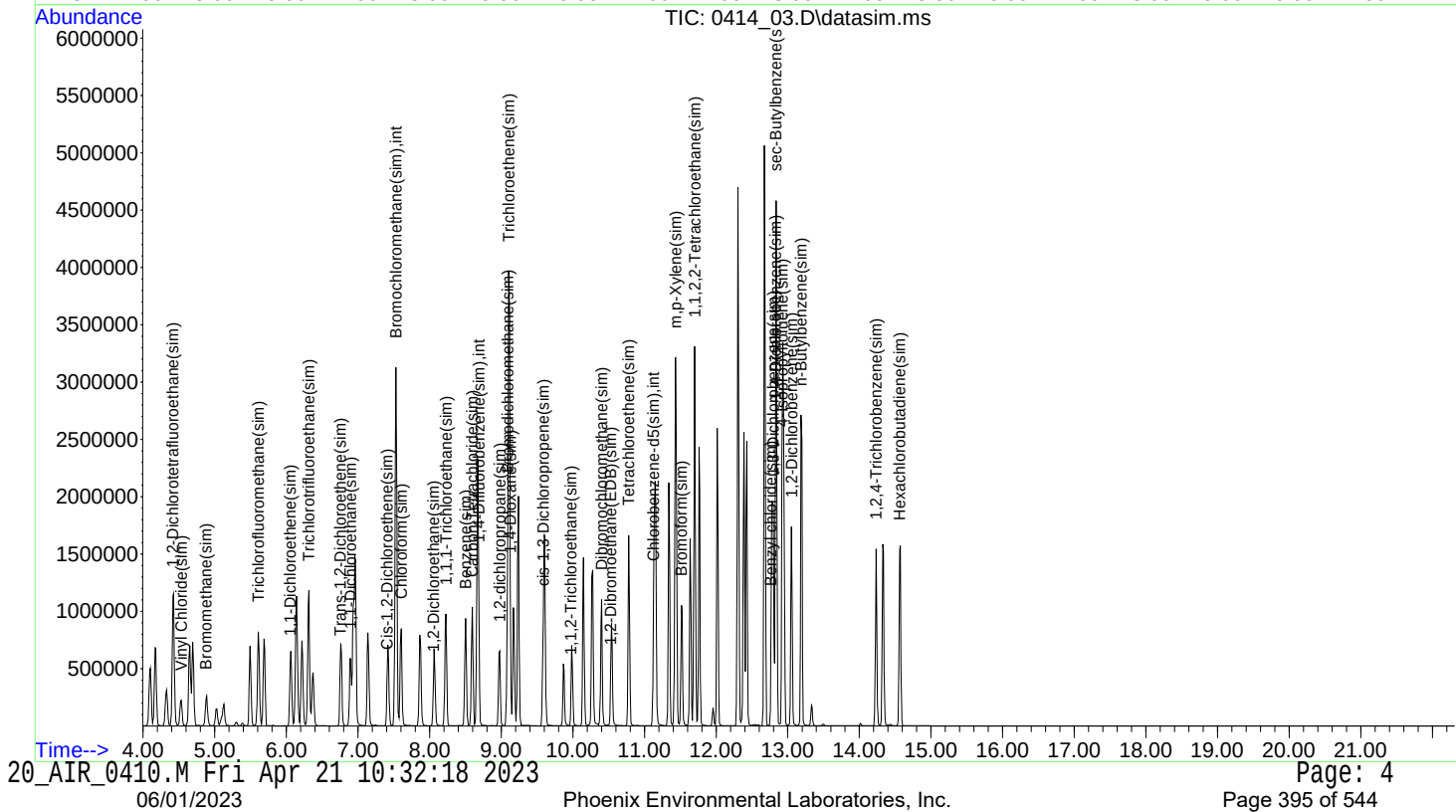
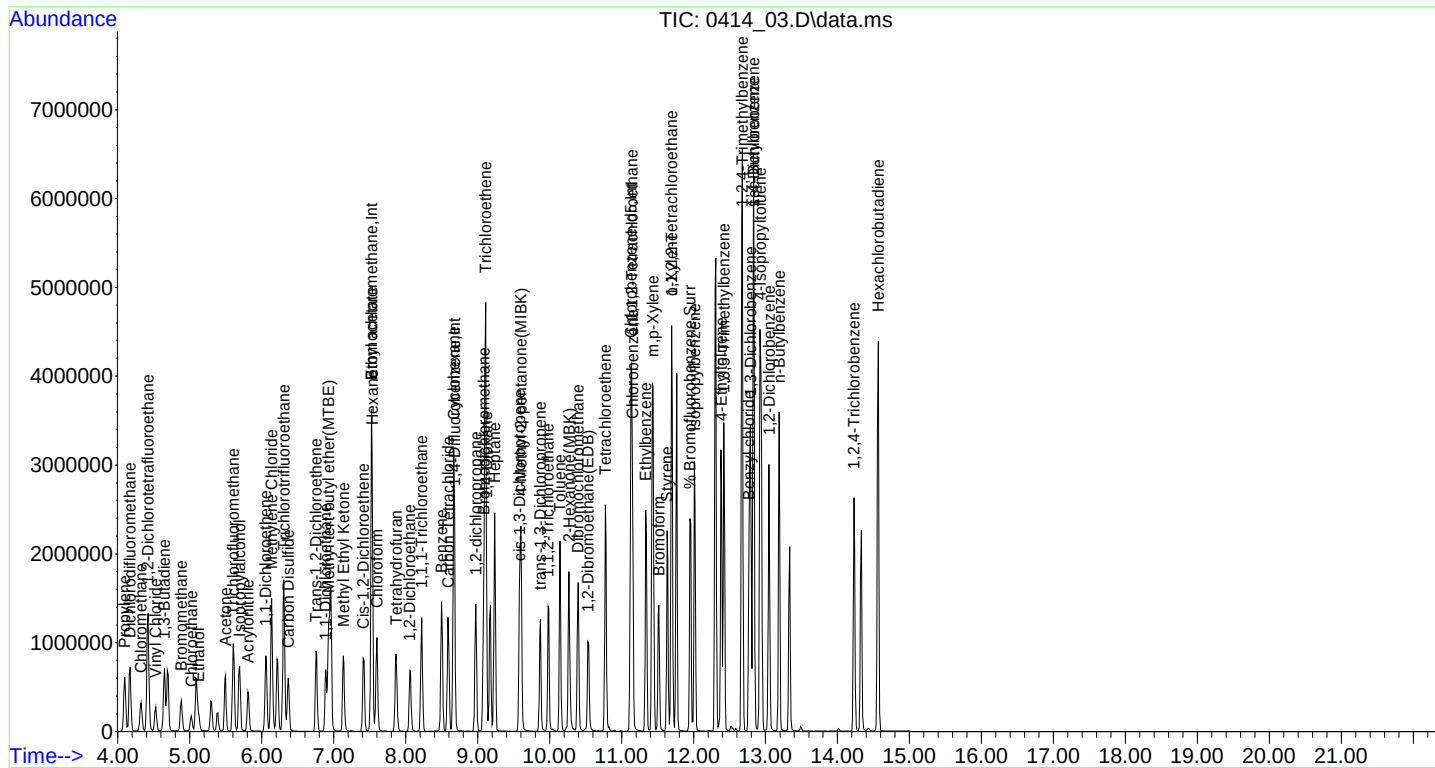
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.053	146	1189117	10.183	ppbv	100
118]	n-Butylbenzene(sim)	13.191	91	1703754	8.690	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.233	180	902649	14.453	ppbv	99
120]	Hexachlorobutadiene(sim)	14.566	225	764633	11.106	ppbv	93

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0414_03.D
Acq On : 14 Apr 2023 10:33 am
Operator :
Client ID : CN82795 LCS
Lab ID : CN82795 LCS
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Apr 14 11:06:23 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN82795</u>
Canister:	<u>16008</u>	Lab File ID:	<u>0414_05.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/13/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/14/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.500	U	0.500	0.500	r
75-71-8	Dichlorodifluoromethane	0.500	U	0.500	0.500	r
74-87-3	Chloromethane	0.561		0.500	0.500	r
106-99-0	1,3-Butadiene	0.043	U	0.043	0.043	r
75-00-3	Chloroethane	0.500	U	0.500	0.500	r
64-17-5	Ethanol	12.0	S	0.500	0.500	r
67-64-1	Acetone	303	S	0.421	0.421	
75-69-4	Trichlorofluoromethane	0.500	U	0.500	0.500	r
67-63-0	Isopropylalcohol	272	S	0.407	0.407	
107-13-1	Acrylonitrile	0.500	U	0.500	0.500	r
75-09-2	Methylene Chloride	0.807	S	0.500	0.500	r
75-15-0	Carbon Disulfide	0.500	U	0.500	0.500	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.500	U	0.500	0.500	r
78-93-3	Methyl Ethyl Ketone	0.500	U	0.500	0.500	r
110-54-3	Hexane	1.83	S	0.500	0.500	r
141-78-6	Ethyl acetate	0.500	U	0.500	0.500	r
109-99-9	Tetrahydrofuran	0.500	U	0.500	0.500	r
110-82-7	Cyclohexane	0.500	U	0.500	0.500	r
142-82-5	Heptane	0.500	U	0.500	0.500	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.500	U	0.500	0.500	r
10061-02-6	trans-1,3-Dichloropropene	0.154	U	0.154	0.154	r
108-88-3	Toluene	2.57		0.500	0.500	r
591-78-6	2-Hexanone(MBK)	0.500	U	0.500	0.500	r
630-20-6	1,1,1,2-Tetrachloroethane	0.055	U	0.055	0.055	r
108-90-7	Chlorobenzene	0.500	U	0.500	0.500	r
100-41-4	Ethylbenzene	0.254	U	0.254	0.254	r
179601-23-1	m,p-Xylene	1.00	U	1.00	1.00	r
100-42-5	Styrene	0.500	U	0.500	0.500	r
95-47-6	o-Xylene	0.500	U	0.500	0.500	r
98-82-8	Isopropylbenzene	0.500	U	0.500	0.500	r
622-96-8	4-Ethyltoluene	0.500	U	0.500	0.500	r
108-67-8	1,3,5-Trimethylbenzene	0.500	U	0.500	0.500	r
95-63-6	1,2,4-Trimethylbenzene	0.500	U	0.500	0.500	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.500	U	0.500	0.500	r
75-01-4	Vinyl Chloride(sim)	0.043	U	0.040	0.043	r
74-83-9	Bromomethane(sim)	0.500	U	0.500	0.500	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CN82795 QC

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN84181 Lab Sample ID: CN82795

Canister: 16008 Lab File ID: 0414_05.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 04/13/23

Purge Volume 200 (cc) Date Analyzed: 04/14/23

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.050	U	0.050	0.050	r
71-55-6	1,1,1-Trichloroethane(sim)	0.500	U	0.500	0.500	r
71-43-2	Benzene(sim)	0.089		0.041	0.041	r
56-23-5	Carbon Tetrachloride(sim)	0.068		0.008	0.008	r
75-35-4	1,1-Dichloroethene(sim)	0.500	U	0.500	0.500	r
76-13-1	Trichlorotrifluoroethane(sim)	0.500	U	0.500	0.500	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.500	U	0.500	0.500	r
75-34-3	1,1-Dichloroethane(sim)	0.454	U	0.454	0.454	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.500	U	0.500	0.500	r
67-66-3	Chloroform(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.061	U	0.061	0.061	r
75-27-4	Bromodichloromethane(sim)	0.037	U	0.037	0.037	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.156	U	0.156	0.156	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.154	U	0.154	0.154	r
79-00-5	1,1,2-Trichloroethane(sim)	0.033	U	0.033	0.033	r
124-48-1	Dibromochloromethane(sim)	0.500	U	0.500	0.500	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.050	U	0.050	0.050	r
127-18-4	Tetrachloroethene(sim)	0.093	U	0.093	0.093	r
75-25-2	Bromoform(sim)	0.500	U	0.500	0.500	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.031	U	0.031	0.031	r
100-44-7	Benzyl chloride(sim)	0.048	U	0.048	0.048	r
541-73-1	1,3-Dichlorobenzene(sim)	0.500	U	0.500	0.500	r
106-46-7	1,4-Dichlorobenzene(sim)	0.043	U	0.043	0.043	r
135-98-8	sec-Butylbenzene(sim)	0.500	U	0.500	0.500	r
99-87-6	4-Isopropyltoluene(sim)	0.500	U	0.500	0.500	r
95-50-1	1,2-Dichlorobenzene(sim)	0.500	U	0.500	0.500	r
104-51-8	n-Butylbenzene(sim)	0.500	U	0.500	0.500	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.283	U	0.283	0.283	r
87-68-3	Hexachlorobutadiene(sim)	0.035	U	0.035	0.035	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_05.D
 Acq On : 14 Apr 2023 11:59 am
 Operator :
 Client ID : CN82795 QC
 Lab ID : CN82795 QC
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 15:42:43 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

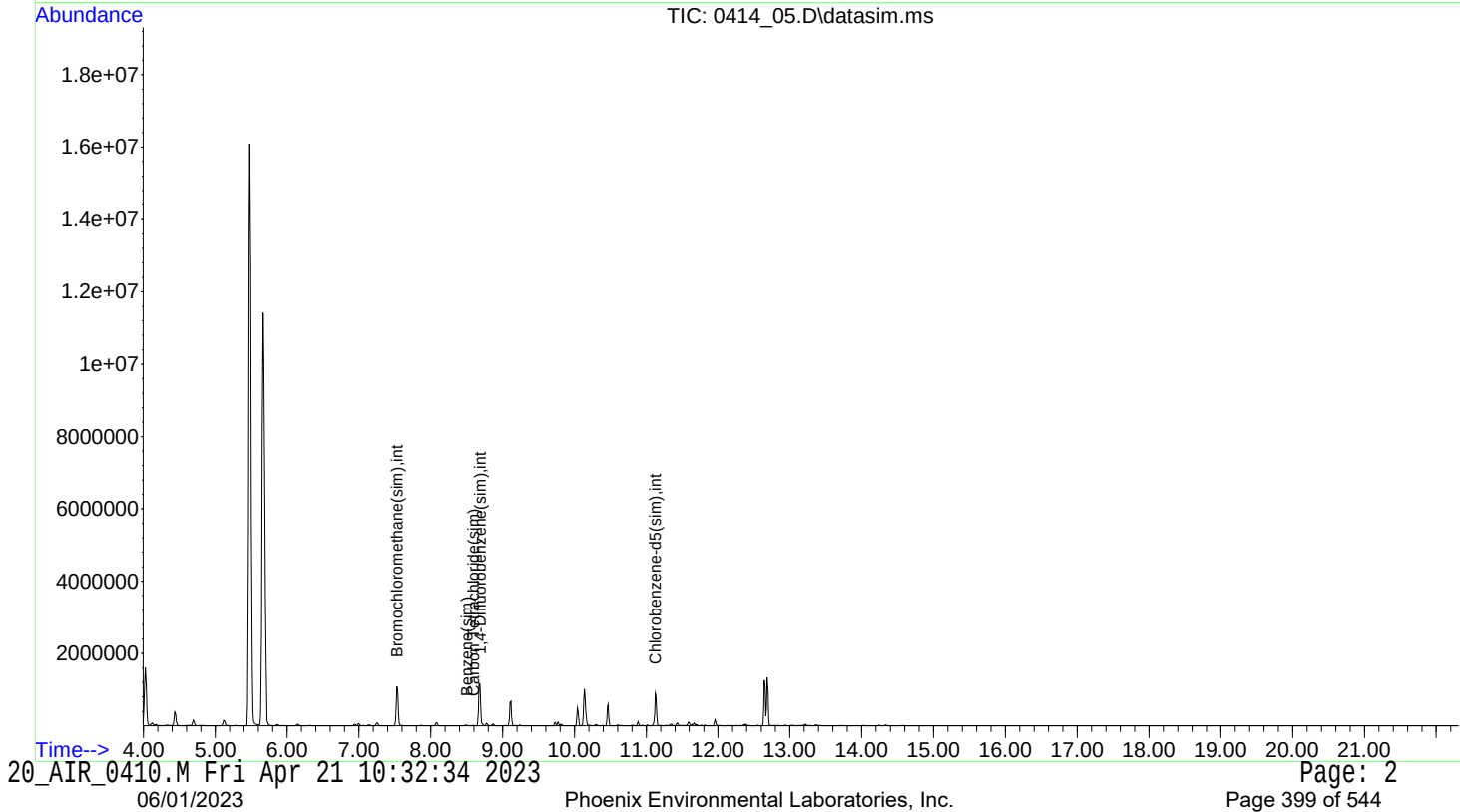
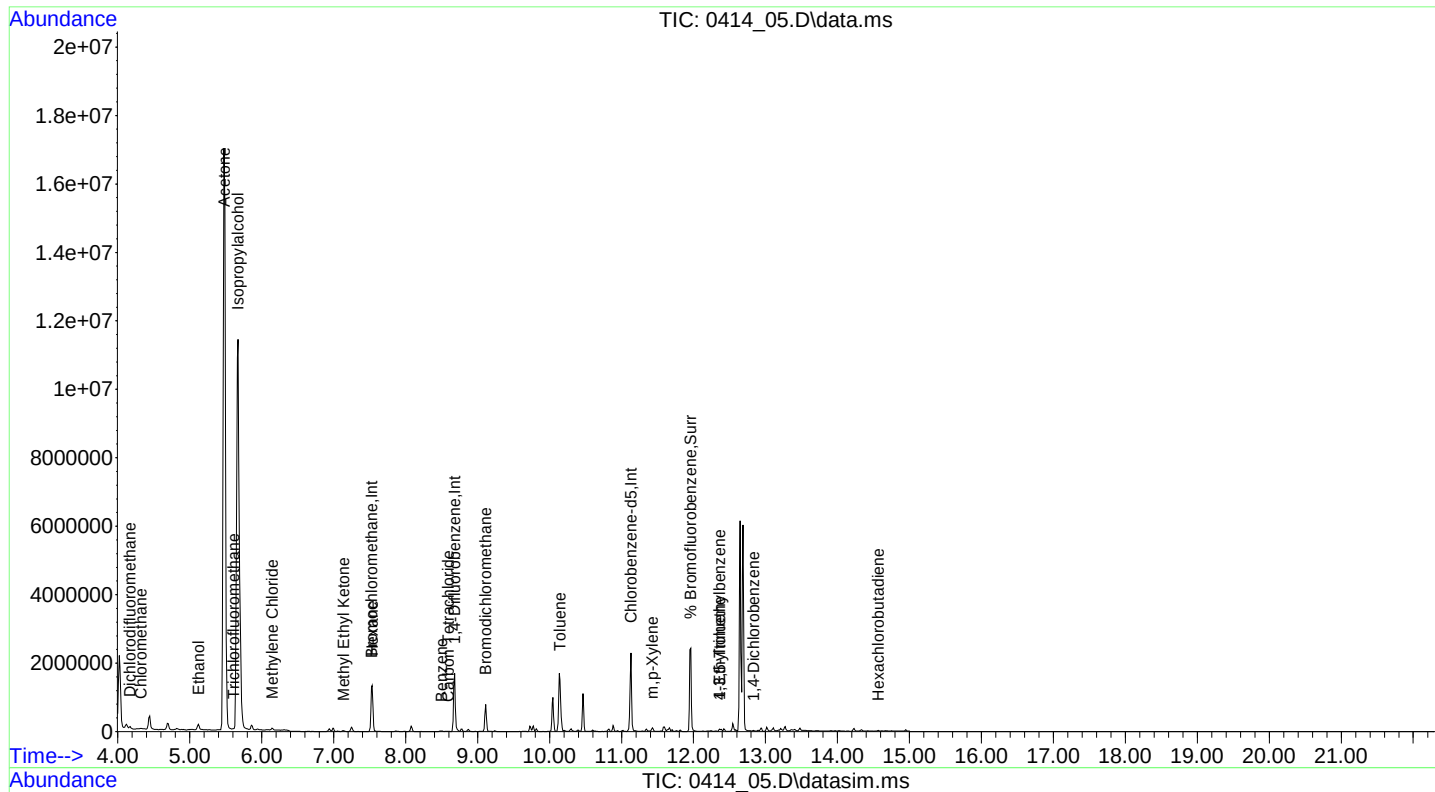
Compound		R.T	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1)	Bromochloromethane	7.525	130	313641	10.000	ng	0.00
37)	1,4-Difluorobenzene	8.680	114	1165296	10.000	ng	0.00
54)	Chlorobenzene-d5	11.130	82	537298	10.000	ng	0.00
81)	Bromochloromethane(sim)	7.531	130	349058	10.000	ng	# 0.00
96)	1,4-Difluorobenzene(sim)	8.680	114	1163458	10.000	ng	0.00
106)	Chlorobenzene-d5(sim)	11.130	82	537298	10.000	ng	0.00
System Monitoring Compounds							
63)	% Bromofluorobenzene	11.960	95	756432	10.309	ppbv	0.01
Spiked Amount 10.000		Range	70 - 130	Recovery	=	103.10%	
Target Compounds							Qvalue
3)	Dichlorodifluoromethane	4.171	85	33423	0.452	ppbv	95
4)	Chloromethane	4.322	50	22248	0.561	ppbv	93
11)	Ethanol	5.120	45	171340	11.973	ppbv#	81
12)	Acetone	5.475	43	21822672	302.847	ppbv	90
13)	Trichlorofluoromethane	5.605	101	16108	0.203	ppbv	96
14)	Isopropylalcohol	5.669	45	17553322	271.915	ppbv#	99
17)	Methylene Chloride	6.144	49	43902	0.807	ppbv	98
26)	Methyl Ethyl Ketone	7.133	43	40140	0.365	ppbv	97
28)	Hexane	7.535	57	122480	1.827	ppbv	97
34)	Benzene	8.499	78	9423	0.101	ppbv	96
35)	Carbon Tetrachloride	8.589	117	5082	0.075	ppbv	94
39)	Bromodichloromethane	9.110	83	4299	0.061	ppbv#	29
49)	Toluene	10.143	91	316712	2.573	ppbv	98
58)	m,p-Xylene	11.427	91	60266	0.528	ppbv	98
67)	4-Ethyltoluene	12.360	105	69550	0.407	ppbv#	94
68)	1,3,5-Trimethylbenzene	12.360	105	69550	0.482	ppbv#	76
73)	1,4-Dichlorobenzene	12.832	146	4881	0.050	ppbv	97
78)	1,2,4-Trichlorobenzene	14.228	180	8580	0.134	ppbv	98
80)	Hexachlorobutadiene	14.566	225	4104	0.064	ppbv	90
88)	Benzene(sim)	8.499	78	9423	0.089	ppbv	96
89)	Carbon Tetrachloride(sim)	8.595	117	4646	0.068	ppbv	98
114)	1,4-Dichlorobenzene(sim)	12.832	146	4881	0.041	ppbv	98

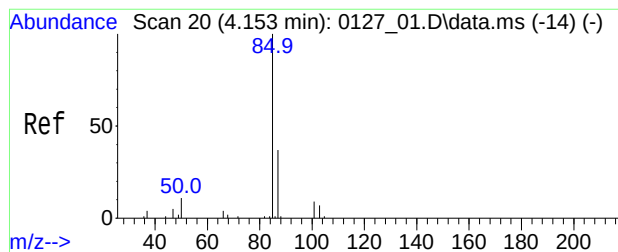
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT/LSC Reviewed)

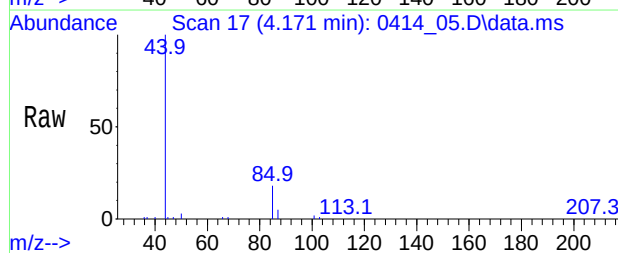
Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0414_05.D
Acq On : 14 Apr 2023 11:59 am
Operator :
Client ID : CN82795 QC
Lab ID : CN82795 QC
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 14 15:42:43 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration

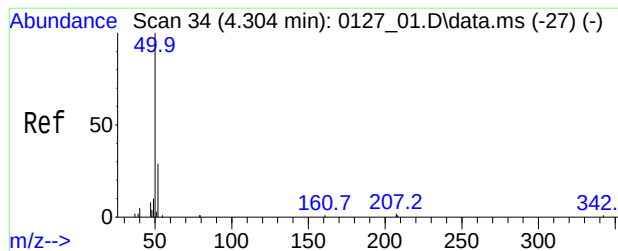
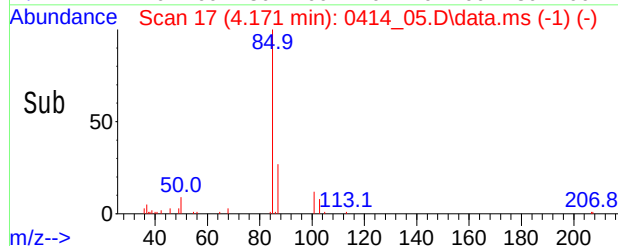
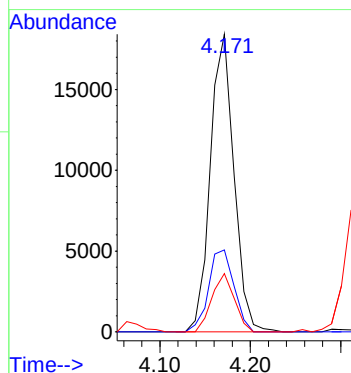




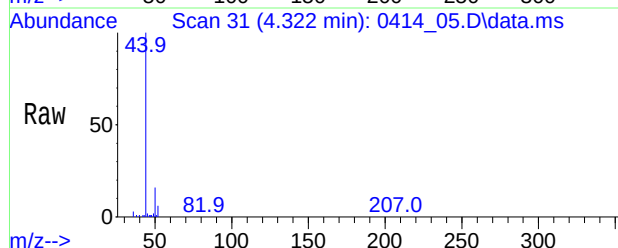
#3
Dichlorodifluoromethane
Conc: 8\$ 0.452 ppbv
RT: 4.171 min Scan# 17
Delta R.T. 0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am



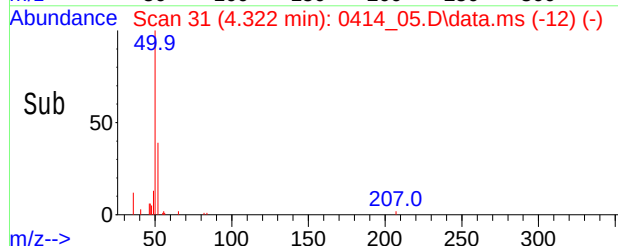
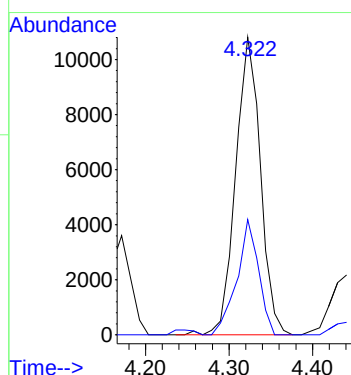
Tgt Ion	Ratio	Lower	Upper
85	100		
87	29.7	25.1	37.7
50	18.7	18.1	27.1

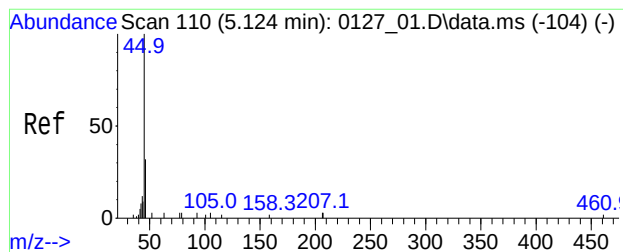


#4
Chloromethane
Conc: 8\$ 0.561 ppbv
RT: 4.322 min Scan# 31
Delta R.T. 0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am



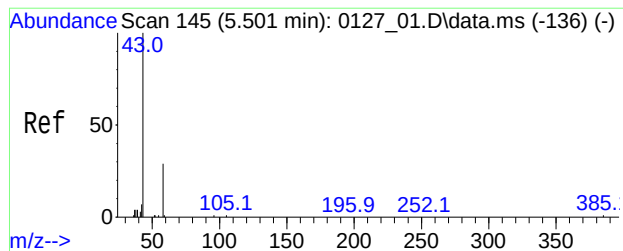
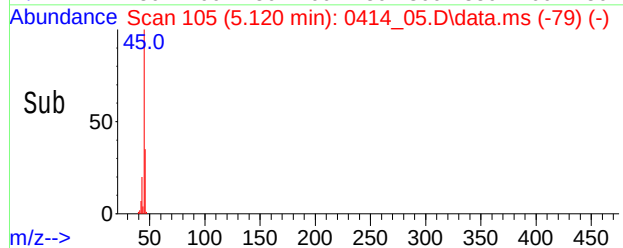
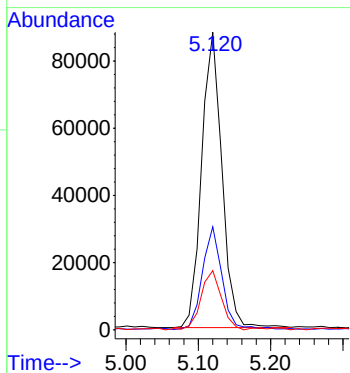
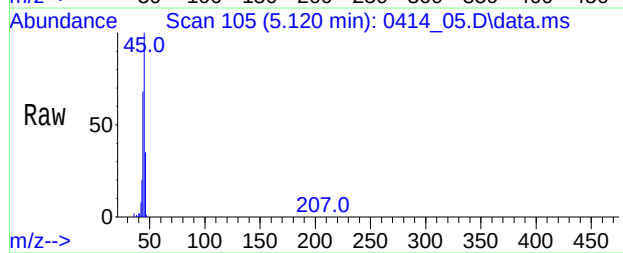
Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.9	18.1	58.1





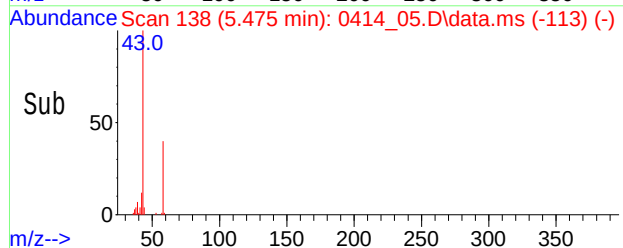
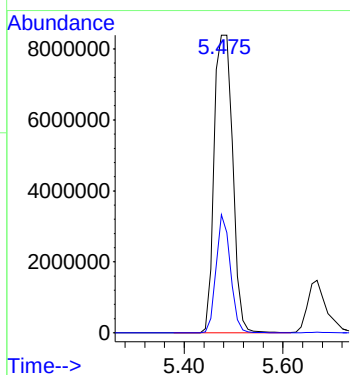
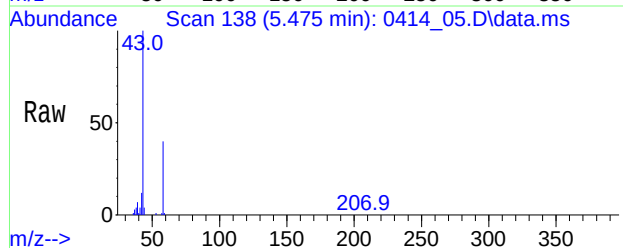
#11
Ethanol
Conc: 8\$ 11.973 ppbv
RT: 5.120 min Scan# 105
Delta R.T. -0.021 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

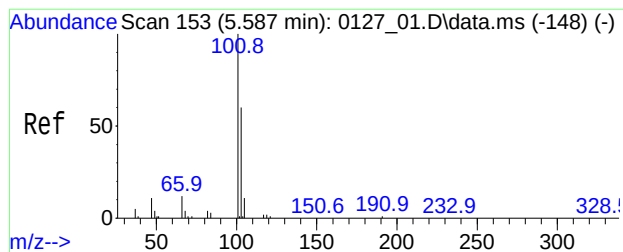
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.8	25.1	37.7
43	20.3	31.4	47.2#



#12
Acetone
Conc: 8\$ 302.847 ppbv
RT: 5.475 min Scan# 138
Delta R.T. -0.033 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

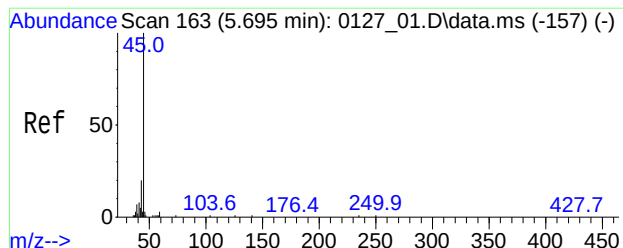
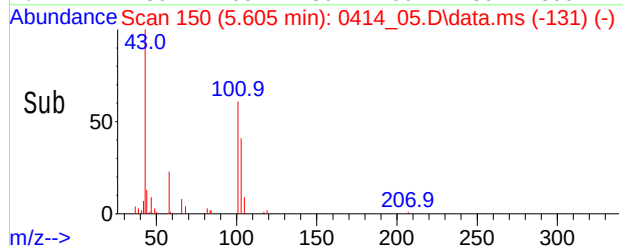
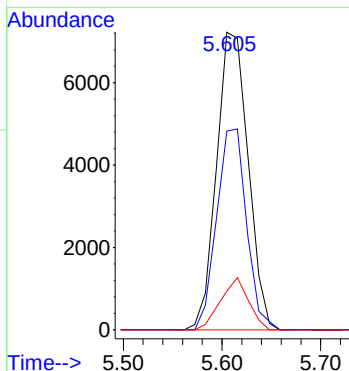
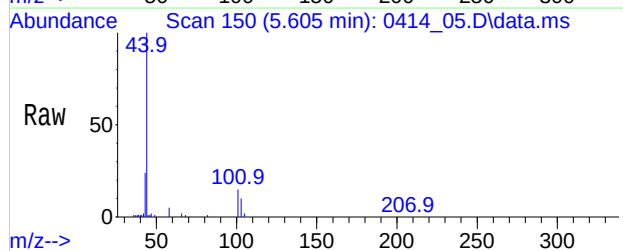
Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.6	20.6	30.8





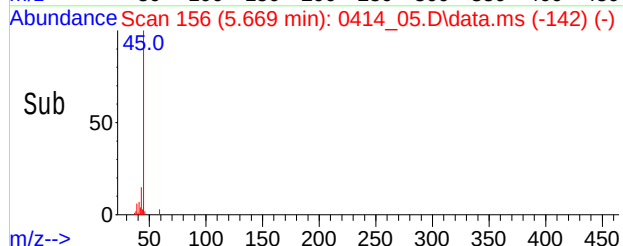
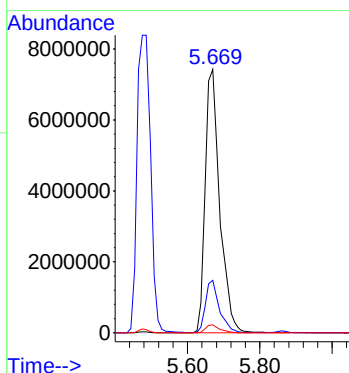
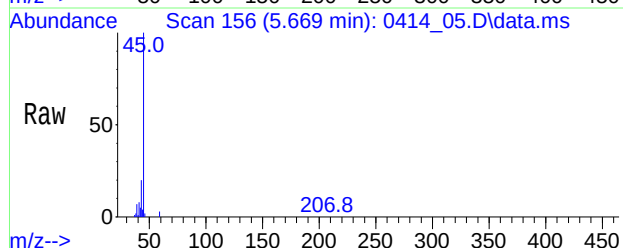
#13
Trichlorofluoromethane
Conc: 8\$ 0.203 ppbv
RT: 5.605 min Scan# 150
Delta R.T. -0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

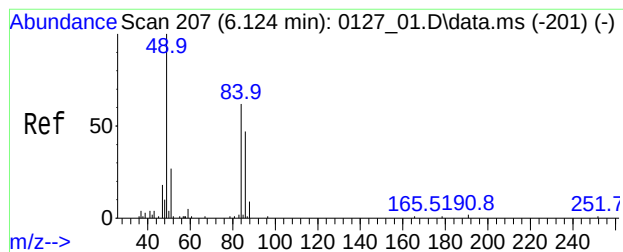
Tgt Ion:	101	Resp:	16108
Ion Ratio	Lower	Upper	
101	100		
103	63.7	53.8	80.8
66	15.5	12.9	19.3



#14
Isopropylalcohol
Conc: 8\$ 271.915 ppbv
RT: 5.669 min Scan# 156
Delta R.T. -0.052 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

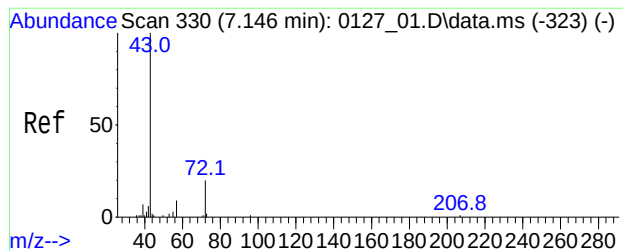
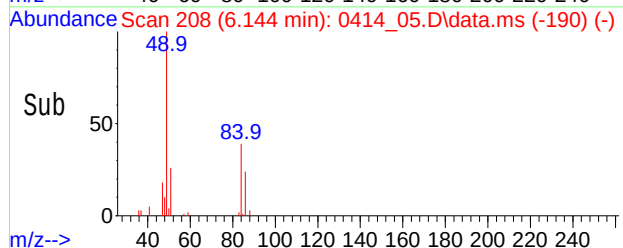
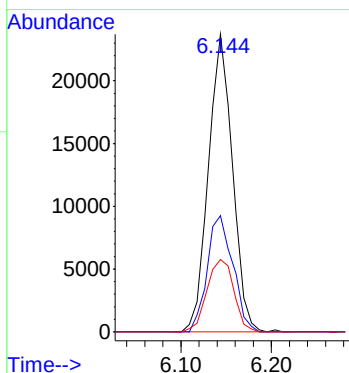
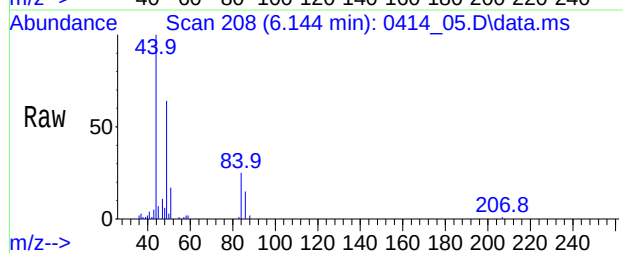
Tgt Ion:	45	Resp:	17553322
Ion Ratio	Lower	Upper	
45	100		
43	19.8	15.9	23.9
59	3.0	3.6	5.4#





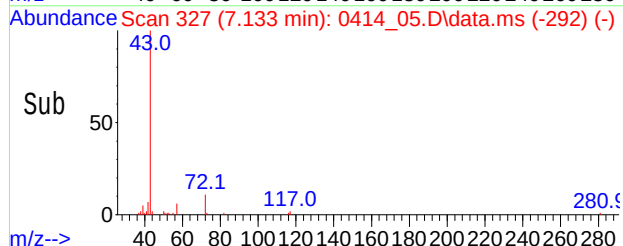
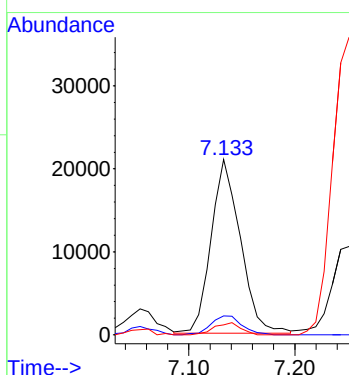
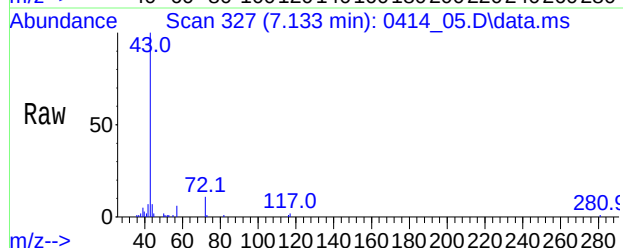
#17
Methylene Chloride
Conc: 8\$ 0.807 ppbv
RT: 6.144 min Scan# 208
Delta R.T. 0.009 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

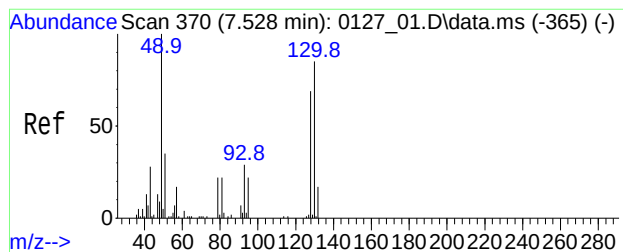
Tgt Ion	Ratio	Lower	Upper
49	100		
84	41.6	34.0	51.0
86	27.1	20.7	31.1



#26
Methyl Ethyl Ketone
Conc: 8\$ 0.365 ppbv
RT: 7.133 min Scan# 327
Delta R.T. -0.023 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

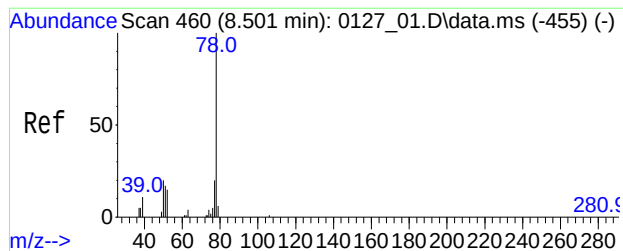
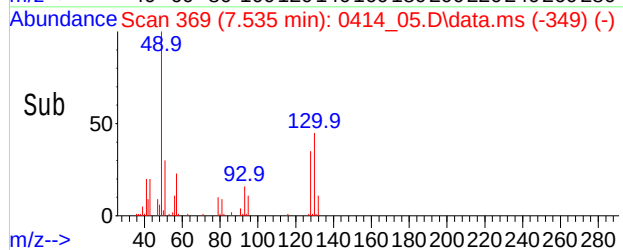
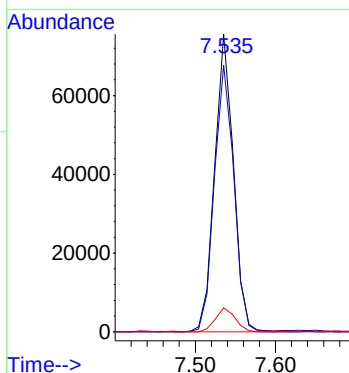
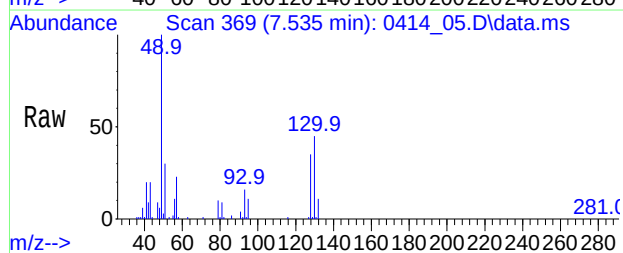
Tgt Ion	Ratio	Lower	Upper
43	100		
72	11.6	10.2	15.4
57	6.3	6.1	9.1





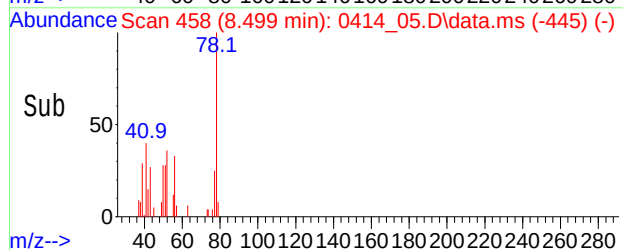
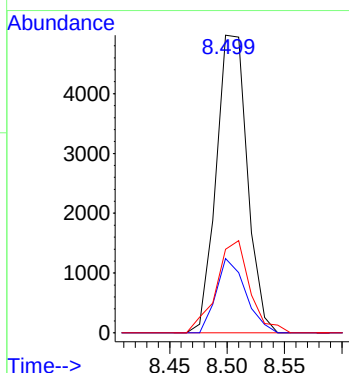
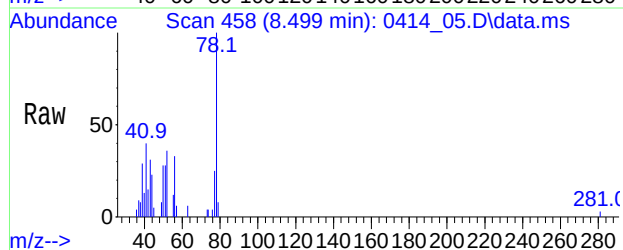
#28
Hexane
Conc: 8\$ 1.827 ppbv
RT: 7.535 min Scan# 369
Delta R.T. 0.010 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

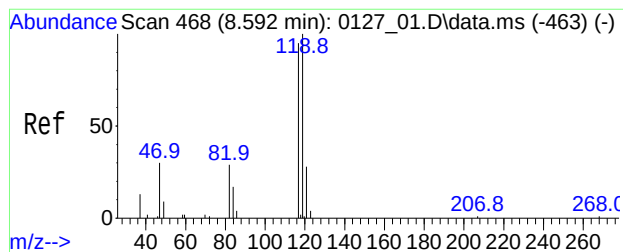
Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.9	72.3	108.5
86	8.5	7.0	10.6



#34
Benzene
Conc: 8\$ Below Cal
RT: 8.499 min Scan# 458
Delta R.T. -0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

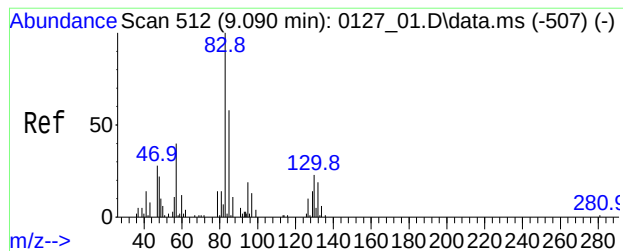
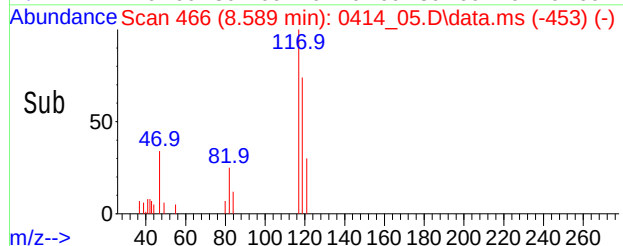
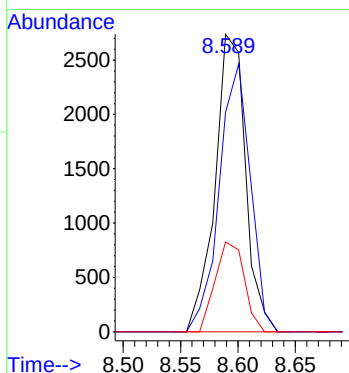
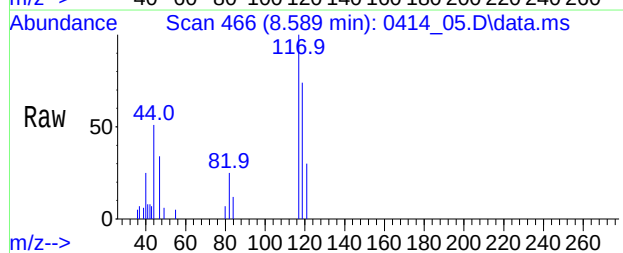
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	20.0	30.0
51	33.3	24.3	36.5





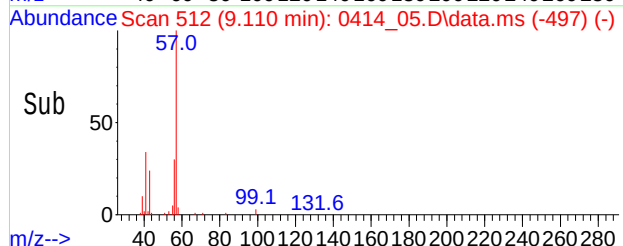
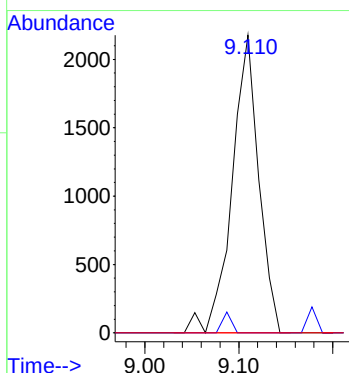
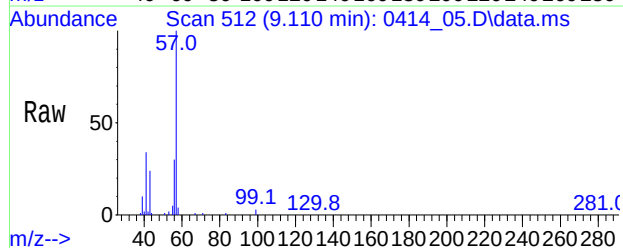
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.589 min Scan# 466
Delta R.T. 0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

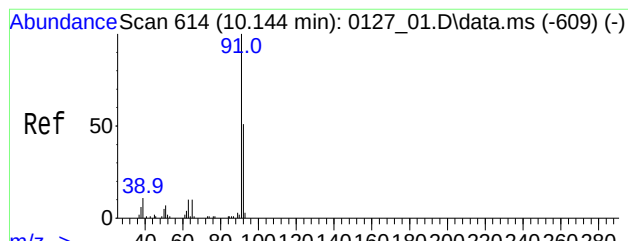
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5082		
119	91.5	77.5	117.5	
121	28.8	12.4	52.4	



#39
Bromodichloromethane
Conc: 8\$ Below Cal
RT: 9.110 min Scan# 512
Delta R.T. 0.023 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

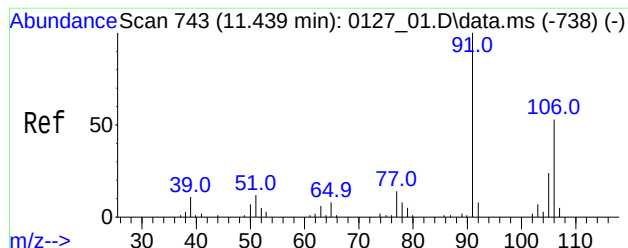
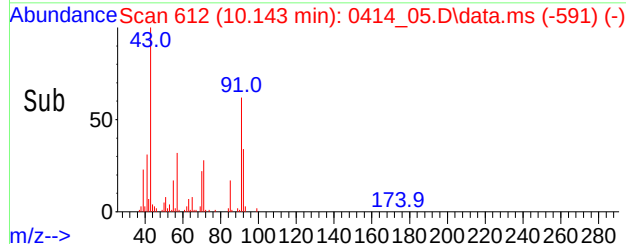
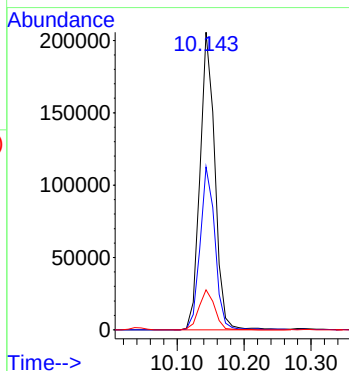
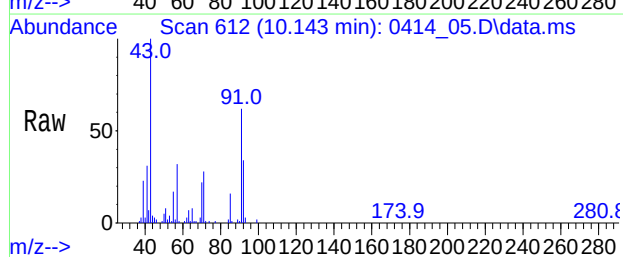
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	4299		
85	2.4	43.9	83.9#	
129	0.0	0.0	34.7	





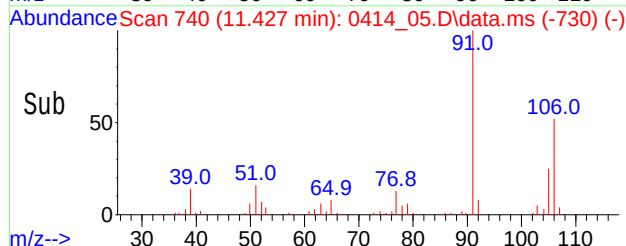
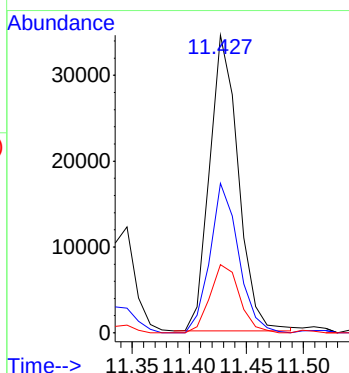
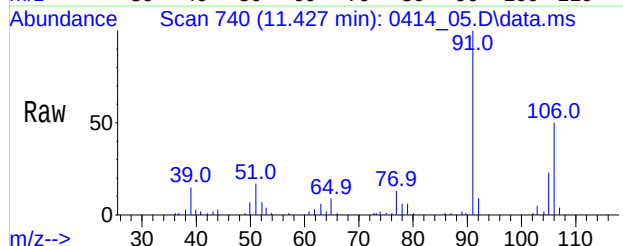
#49
Toluene
Conc: 8\$ 2.573 ppbv
RT: 10.143 min Scan# 612
Delta R.T. 0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

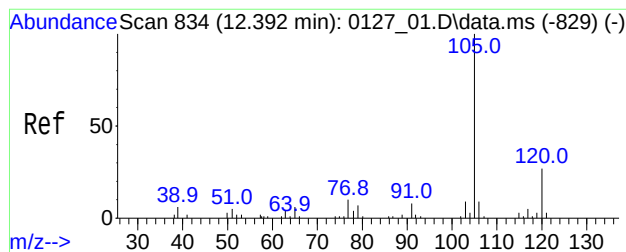
Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.9	44.8	67.2
65	14.3	10.5	15.7



#58
m,p-Xylene
Conc: 8\$ 0.528 ppbv
RT: 11.427 min Scan# 740
Delta R.T. 0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

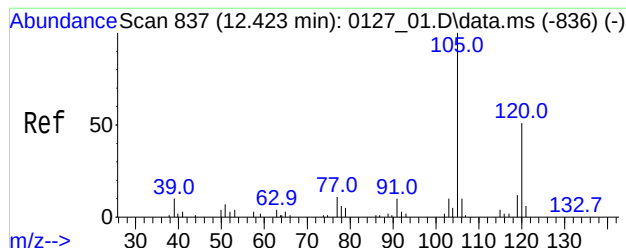
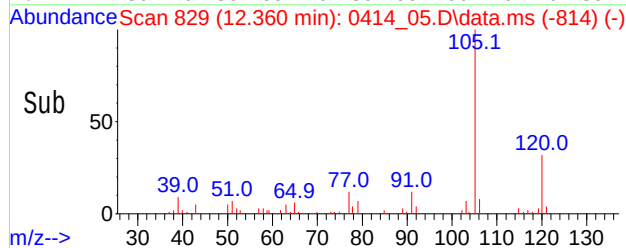
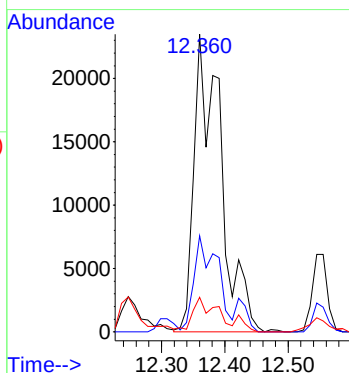
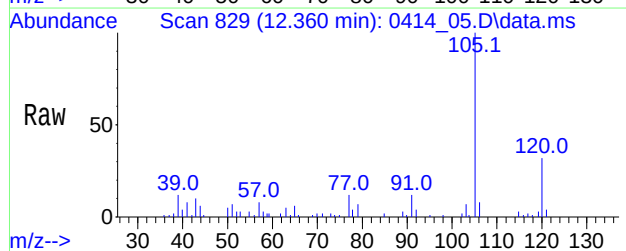
Tgt Ion	Ratio	Lower	Upper
91	100		
106	50.2	41.4	62.2
105	23.8	19.8	29.8





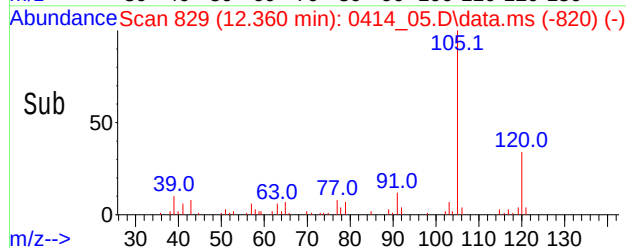
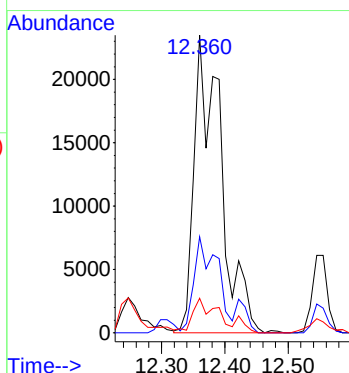
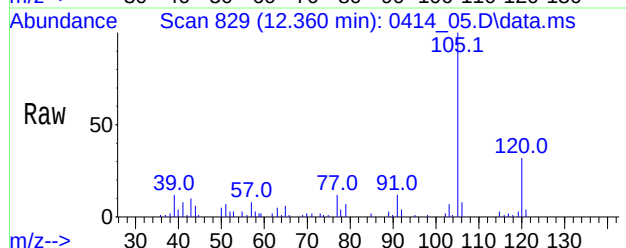
#67
4-Ethyltoluene
Conc: 8\$ 0.407 ppbv
RT: 12.360 min Scan# 829
Delta R.T. -0.021 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

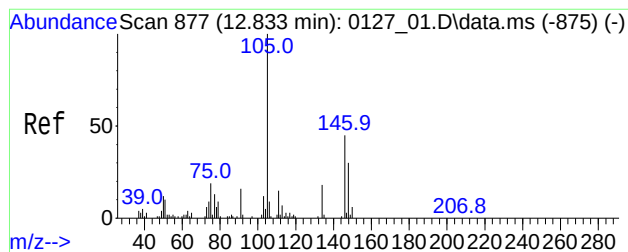
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	69550		
120	28.1	24.7	37.1	
77	8.3	8.8	13.2#	



#68
1,3,5-Trimethylbenzene
Conc: 8\$ 0.482 ppbv
RT: 12.360 min Scan# 829
Delta R.T. -0.062 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

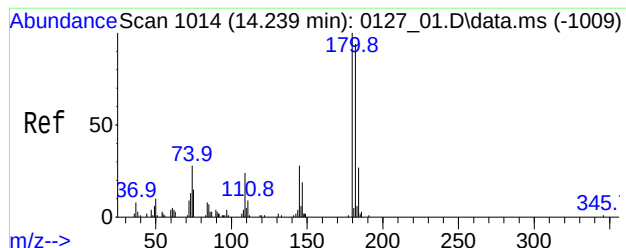
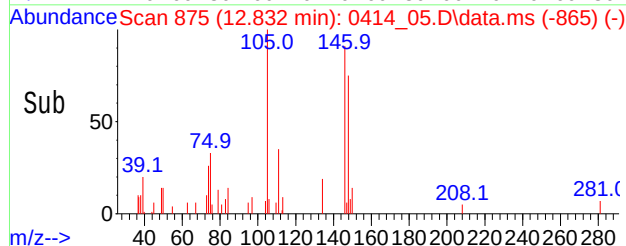
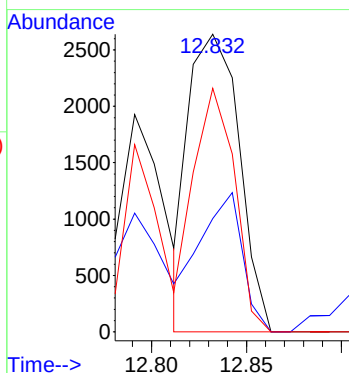
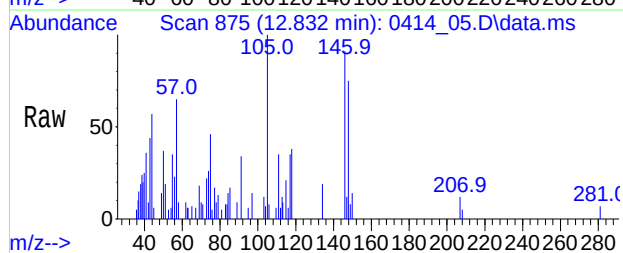
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	69550		
120	27.6	36.6	55.0#	
77	8.3	9.9	14.9#	





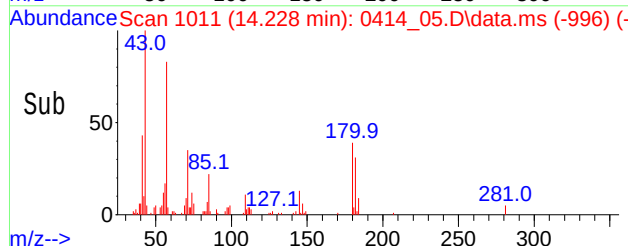
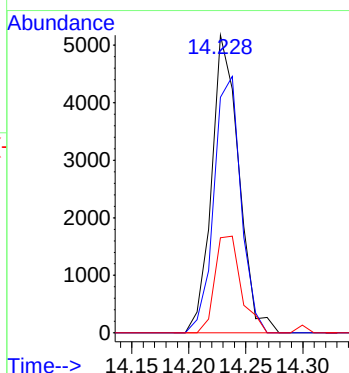
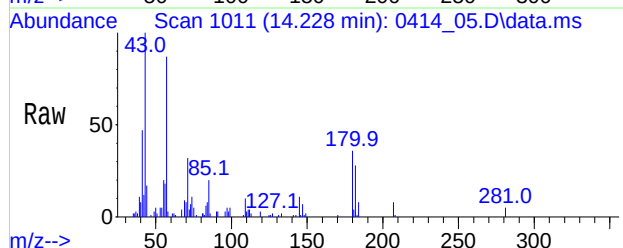
#73
1,4-Dichlorobenzene
Conc: 8\$ Below Cal
RT: 12.832 min Scan# 875
Delta R.T. 0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

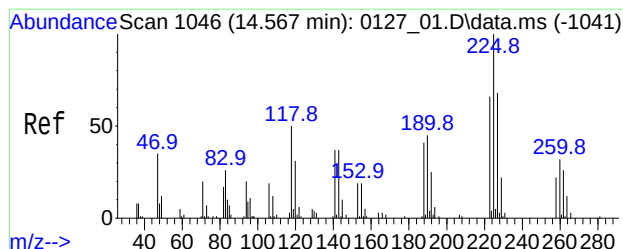
Tgt Ion	146	Resp	4881
Ratio	Lower	Upper	
146	100		
111	40.1	30.8	46.2
148	67.4	52.2	78.4



#78
1,2,4-Trichlorobenzene
Conc: 8\$ Below Cal
RT: 14.228 min Scan# 1011
Delta R.T. -0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

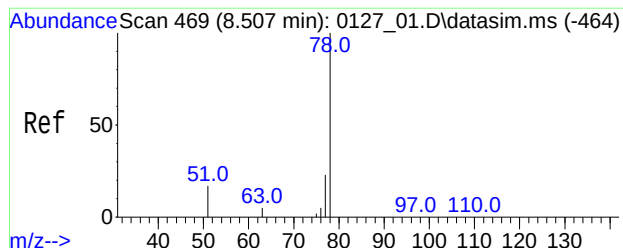
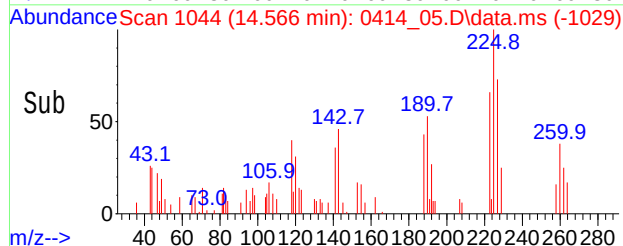
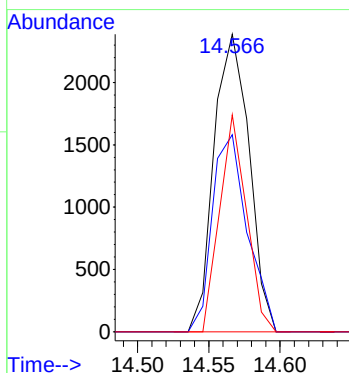
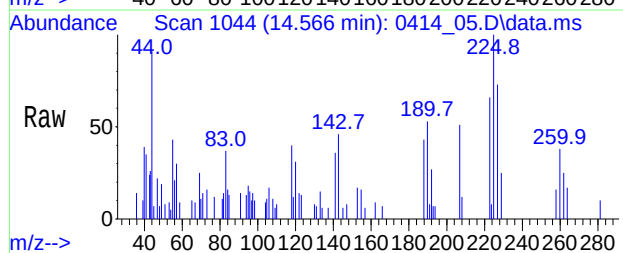
Tgt Ion	180	Resp	8580
Ratio	Lower	Upper	
180	100		
182	85.2	70.0	105.0
145	31.3	25.1	37.7





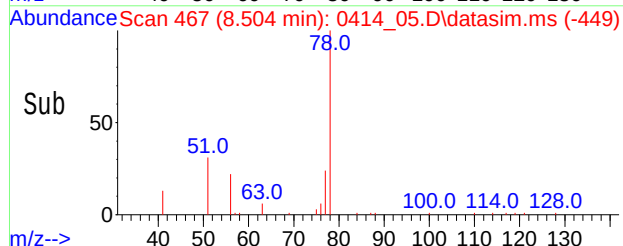
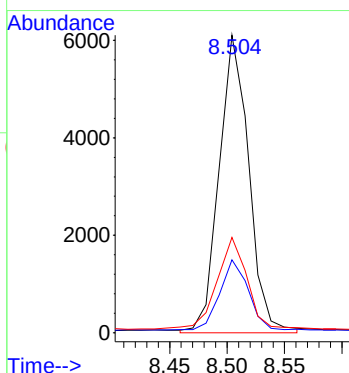
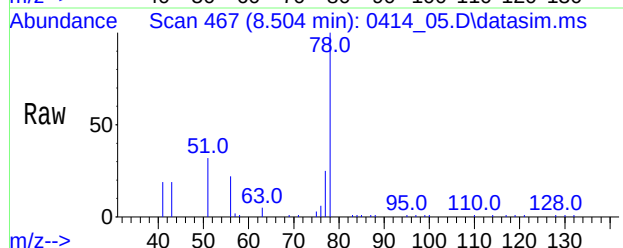
#80
Hexachlorobutadiene
Conc: 8\$ Below Cal
RT: 14.566 min Scan# 1044
Delta R.T. 0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

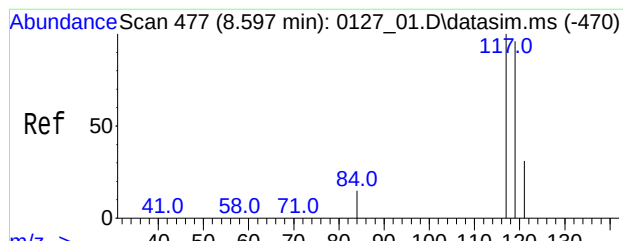
Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.2	42.4	98.8
227	55.7	40.1	93.7



#88
Benzene(sim)
Conc: 8\$ 0.089 ppbv
RT: 8.499 min Scan# 467
Delta R.T. -0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

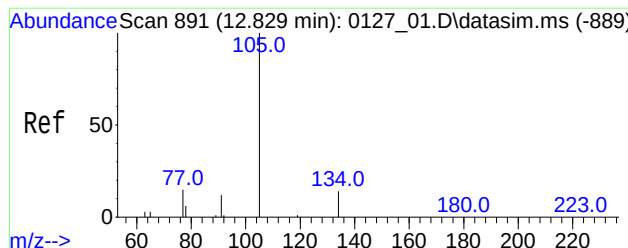
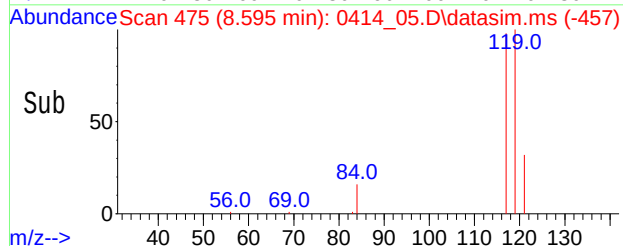
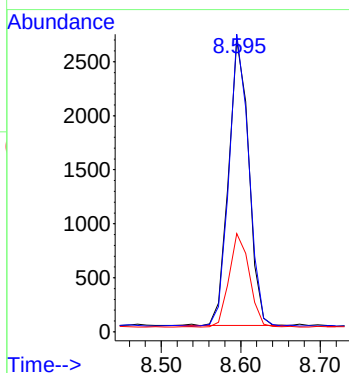
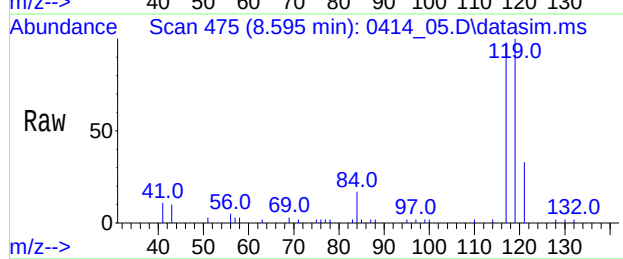
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	20.0	30.0
51	33.3	24.3	36.5





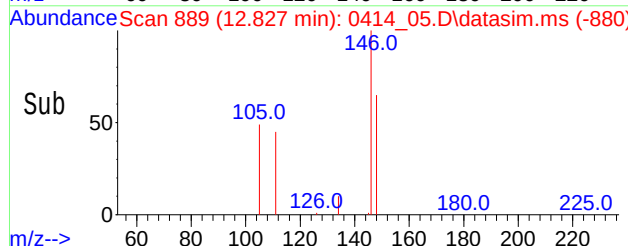
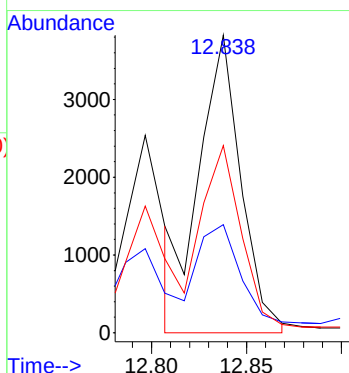
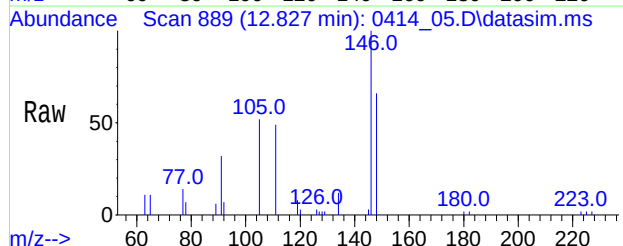
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.068 ppbv
RT: 8.595 min Scan# 475
Delta R.T. -0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.8	79.2	118.8
121	33.0	25.5	38.3



#114
1,4-Dichlorobenzene(sim)
Conc: 8\$ Below Cal
RT: 12.832 min Scan# 889
Delta R.T. 0.000 min
Lab File: 0414_05.D
Acq: 14 Apr 2023 11:59 am

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.1	18.9	58.9
148	67.4	46.2	86.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CN82795 BL
Canister:	BL	Lab File ID:	0414_04.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	04/13/23
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.500	U	0.500	0.500	r
75-71-8	Dichlorodifluoromethane	0.500	U	0.500	0.500	r
74-87-3	Chloromethane	0.500	U	0.500	0.500	r
106-99-0	1,3-Butadiene	0.043	U	0.043	0.043	r
75-00-3	Chloroethane	0.500	U	0.500	0.500	r
64-17-5	Ethanol	0.500	U	0.500	0.500	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
67-63-0	Isopropylalcohol	0.500	U	0.500	0.500	r
107-13-1	Acrylonitrile	0.500	U	0.500	0.500	r
75-09-2	Methylene Chloride	0.500	U	0.500	0.500	r
75-15-0	Carbon Disulfide	0.500	U	0.500	0.500	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.500	U	0.500	0.500	r
78-93-3	Methyl Ethyl Ketone	0.500	U	0.500	0.500	r
110-54-3	Hexane	0.500	U	0.500	0.500	r
141-78-6	Ethyl acetate	0.500	U	0.500	0.500	r
109-99-9	Tetrahydrofuran	0.500	U	0.500	0.500	r
110-82-7	Cyclohexane	0.500	U	0.500	0.500	r
142-82-5	Heptane	0.500	U	0.500	0.500	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.500	U	0.500	0.500	r
10061-02-6	trans-1,3-Dichloropropene	0.150	U	0.150	0.150	r
108-88-3	Toluene	0.500	U	0.500	0.500	r
591-78-6	2-Hexanone(MBK)	0.500	U	0.500	0.500	r
630-20-6	1,1,1,2-Tetrachloroethane	0.055	U	0.055	0.055	r
108-90-7	Chlorobenzene	0.500	U	0.500	0.500	r
100-41-4	Ethylbenzene	0.250	U	0.250	0.250	r
100-42-5	Styrene	0.500	U	0.500	0.500	r
95-47-6	o-Xylene	0.500	U	0.500	0.500	r
98-82-8	Isopropylbenzene	0.500	U	0.500	0.500	r
622-96-8	4-Ethyltoluene	0.500	U	0.500	0.500	r
108-67-8	1,3,5-Trimethylbenzene	0.500	U	0.500	0.500	r
95-63-6	1,2,4-Trimethylbenzene	0.500	U	0.500	0.500	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.500	U	0.500	0.500	r
75-01-4	Vinyl Chloride(sim)	0.043	U	0.040	0.043	r
74-83-9	Bromomethane(sim)	0.500	U	0.500	0.500	r
75-69-4	Trichlorofluoromethane(sim)	0.500	U	0.500	0.500	r
107-06-2	1,2-Dichloroethane(sim)	0.050	U	0.050	0.050	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CN82795 BL
Canister:	BL	Lab File ID:	0414_04.D
Instrument:	CHEM20	Column:	RTX-1 60M
Purge Volume	200	(cc)	
		Date Received:	04/13/23
		Date Analyzed:	04/14/23
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
71-55-6	1,1,1-Trichloroethane(sim)	0.500	U	0.500	0.500	r
71-43-2	Benzene(sim)	0.041	U	0.041	0.041	r
56-23-5	Carbon Tetrachloride(sim)	0.008	U	0.008	0.008	r
75-35-4	1,1-Dichloroethene(sim)	0.500	U	0.500	0.500	r
76-13-1	Trichlorotrifluoroethane(sim)	0.500	U	0.500	0.500	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.500	U	0.500	0.500	r
75-34-3	1,1-Dichloroethane(sim)	0.450	U	0.450	0.450	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.500	U	0.500	0.500	r
67-66-3	Chloroform(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.061	U	0.061	0.061	r
75-27-4	Bromodichloromethane(sim)	0.037	U	0.037	0.037	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.160	U	0.160	0.160	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.150	U	0.150	0.150	r
79-00-5	1,1,2-Trichloroethane(sim)	0.033	U	0.033	0.033	r
124-48-1	Dibromochloromethane(sim)	0.500	U	0.500	0.500	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.050	U	0.050	0.050	r
127-18-4	Tetrachloroethene(sim)	0.093	U	0.093	0.093	r
75-25-2	Bromoform(sim)	0.500	U	0.500	0.500	r
179601-23-1	m,p-Xylene(sim)	1.00	U	1.00	1.00	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.031	U	0.031	0.031	r
100-44-7	Benzyl chloride(sim)	0.048	U	0.048	0.048	r
541-73-1	1,3-Dichlorobenzene(sim)	0.500	U	0.500	0.500	r
106-46-7	1,4-Dichlorobenzene(sim)	0.043	U	0.043	0.043	r
135-98-8	sec-Butylbenzene(sim)	0.500	U	0.500	0.500	r
99-87-6	4-Isopropyltoluene(sim)	0.500	U	0.500	0.500	r
95-50-1	1,2-Dichlorobenzene(sim)	0.500	U	0.500	0.500	r
104-51-8	n-Butylbenzene(sim)	0.500	U	0.500	0.500	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.280	U	0.280	0.280	r
87-68-3	Hexachlorobutadiene(sim)	0.035	U	0.035	0.035	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_04.D
 Acq On : 14 Apr 2023 11:04 am
 Operator :
 Client ID : CN82795 BLANK
 Lab ID : CN82795 BLANK
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 15:42:08 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.522	130	309198	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.676	114	1170989	10.000	ng	0.00
54) Chlorobenzene-d5	11.126	82	530012	10.000	ng	0.00
81) Bromochloromethane(sim)	7.528	130	343828	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.676	114	1167618	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.126	82	530012	10.000	ng	0.00

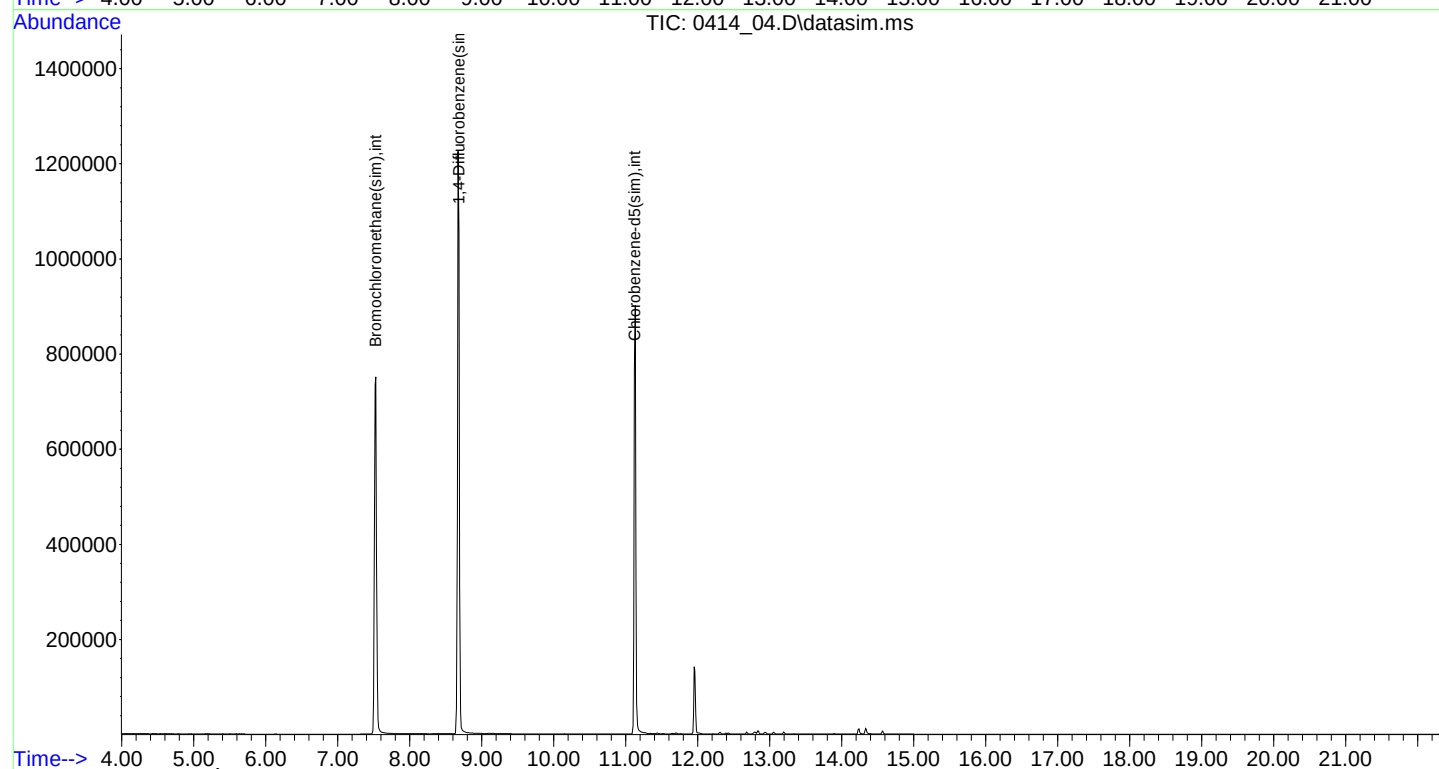
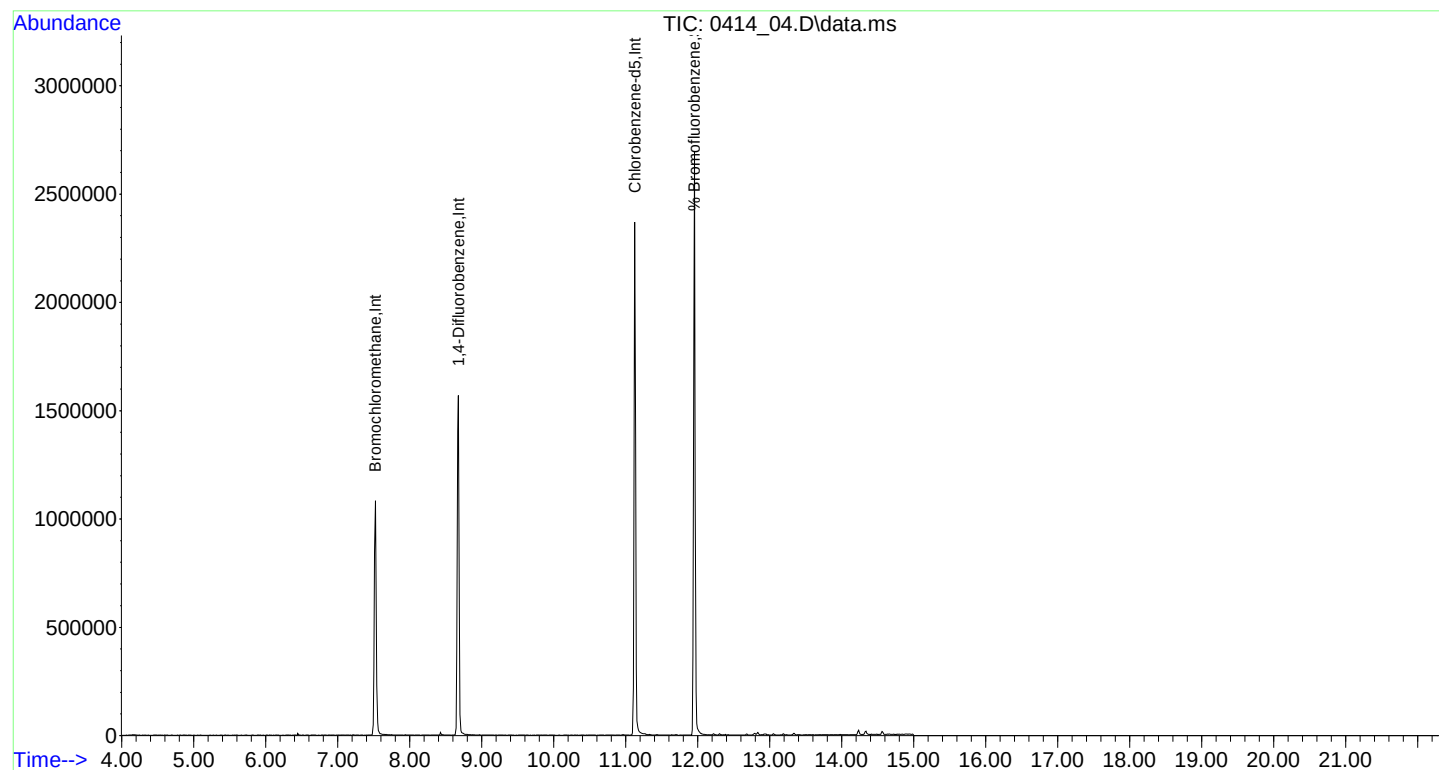
System Monitoring Compounds						
63) % Bromofluorobenzene	11.956	95	746430	10.313	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.10%

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2023\CHEM20\04APR\10\
Data File : 0414_04.D
Acq On : 14 Apr 2023 11:04 am
Operator :
Client ID : CN82795 BLANK
Lab ID : CN82795 BLANK
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 14 15:42:08 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN82795 DUP</u>
Canister:	<u>16008</u>	Lab File ID:	<u>0414_06.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/13/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/14/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.500	U	0.500	0.500	r
75-71-8	Dichlorodifluoromethane	0.500	U	0.500	0.500	r
74-87-3	Chloromethane	0.562		0.500	0.500	r
106-99-0	1,3-Butadiene	0.043	U	0.043	0.043	r
75-00-3	Chloroethane	0.500	U	0.500	0.500	r
64-17-5	Ethanol	12.1	S	0.500	0.500	r
67-64-1	Acetone	292	S	0.421	0.421	r
67-63-0	Isopropylalcohol	268	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.500	U	0.500	0.500	r
75-09-2	Methylene Chloride	0.785	S	0.500	0.500	r
75-15-0	Carbon Disulfide	0.500	U	0.500	0.500	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.500	U	0.500	0.500	r
78-93-3	Methyl Ethyl Ketone	0.500	U	0.500	0.500	r
110-54-3	Hexane	1.81	S	0.500	0.500	r
141-78-6	Ethyl acetate	0.500	U	0.500	0.500	r
109-99-9	Tetrahydrofuran	0.500	U	0.500	0.500	r
110-82-7	Cyclohexane	0.500	U	0.500	0.500	r
142-82-5	Heptane	0.500	U	0.500	0.500	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.500	U	0.500	0.500	r
10061-02-6	trans-1,3-Dichloropropene	0.154	U	0.154	0.154	r
108-88-3	Toluene	2.50		0.500	0.500	r
591-78-6	2-Hexanone(MBK)	0.500	U	0.500	0.500	r
630-20-6	1,1,1,2-Tetrachloroethane	0.055	U	0.055	0.055	r
108-90-7	Chlorobenzene	0.500	U	0.500	0.500	r
100-41-4	Ethylbenzene	0.254	U	0.254	0.254	r
179601-23-1	m,p-Xylene	1.00	U	1.00	1.00	r
100-42-5	Styrene	0.500	U	0.500	0.500	r
95-47-6	o-Xylene	0.500	U	0.500	0.500	r
98-82-8	Isopropylbenzene	0.500	U	0.500	0.500	r
622-96-8	4-Ethyltoluene	0.500	U	0.500	0.500	r
108-67-8	1,3,5-Trimethylbenzene	0.500	U	0.500	0.500	r
95-63-6	1,2,4-Trimethylbenzene	0.500	U	0.500	0.500	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.500	U	0.500	0.500	r
75-01-4	Vinyl Chloride(sim)	0.043	U	0.040	0.043	r
74-83-9	Bromomethane(sim)	0.500	U	0.500	0.500	r
75-69-4	Trichlorofluoromethane(sim)	0.500	U	0.500	0.500	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN82795 DUP</u>
Canister:	<u>16008</u>	Lab File ID:	<u>0414_06.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/13/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/14/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.050	U	0.050	0.050	r
71-55-6	1,1,1-Trichloroethane(sim)	0.500	U	0.500	0.500	r
71-43-2	Benzene(sim)	0.094		0.041	0.041	r
56-23-5	Carbon Tetrachloride(sim)	0.066		0.008	0.008	r
75-35-4	1,1-Dichloroethene(sim)	0.500	U	0.500	0.500	r
76-13-1	Trichlorotrifluoroethane(sim)	0.500	U	0.500	0.500	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.500	U	0.500	0.500	r
75-34-3	1,1-Dichloroethane(sim)	0.454	U	0.454	0.454	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.500	U	0.500	0.500	r
67-66-3	Chloroform(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.061	U	0.061	0.061	r
75-27-4	Bromodichloromethane(sim)	0.037	U	0.037	0.037	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.156	U	0.156	0.156	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.154	U	0.154	0.154	r
79-00-5	1,1,2-Trichloroethane(sim)	0.033	U	0.033	0.033	r
124-48-1	Dibromochloromethane(sim)	0.500	U	0.500	0.500	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.050	U	0.050	0.050	r
127-18-4	Tetrachloroethene(sim)	0.093	U	0.093	0.093	r
75-25-2	Bromoform(sim)	0.500	U	0.500	0.500	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.031	U	0.031	0.031	r
100-44-7	Benzyl chloride(sim)	0.048	U	0.048	0.048	r
541-73-1	1,3-Dichlorobenzene(sim)	0.500	U	0.500	0.500	r
106-46-7	1,4-Dichlorobenzene(sim)	0.043	U	0.043	0.043	r
135-98-8	sec-Butylbenzene(sim)	0.500	U	0.500	0.500	r
99-87-6	4-Isopropyltoluene(sim)	0.500	U	0.500	0.500	r
95-50-1	1,2-Dichlorobenzene(sim)	0.500	U	0.500	0.500	r
104-51-8	n-Butylbenzene(sim)	0.500	U	0.500	0.500	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.283	U	0.283	0.283	r
87-68-3	Hexachlorobutadiene(sim)	0.035	U	0.035	0.035	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\10\
 Data File : 0414_06.D
 Acq On : 14 Apr 2023 12:33 pm
 Operator :
 Client ID : 82795 dup
 Lab ID : CN82795 DUP
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 14 15:43:26 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

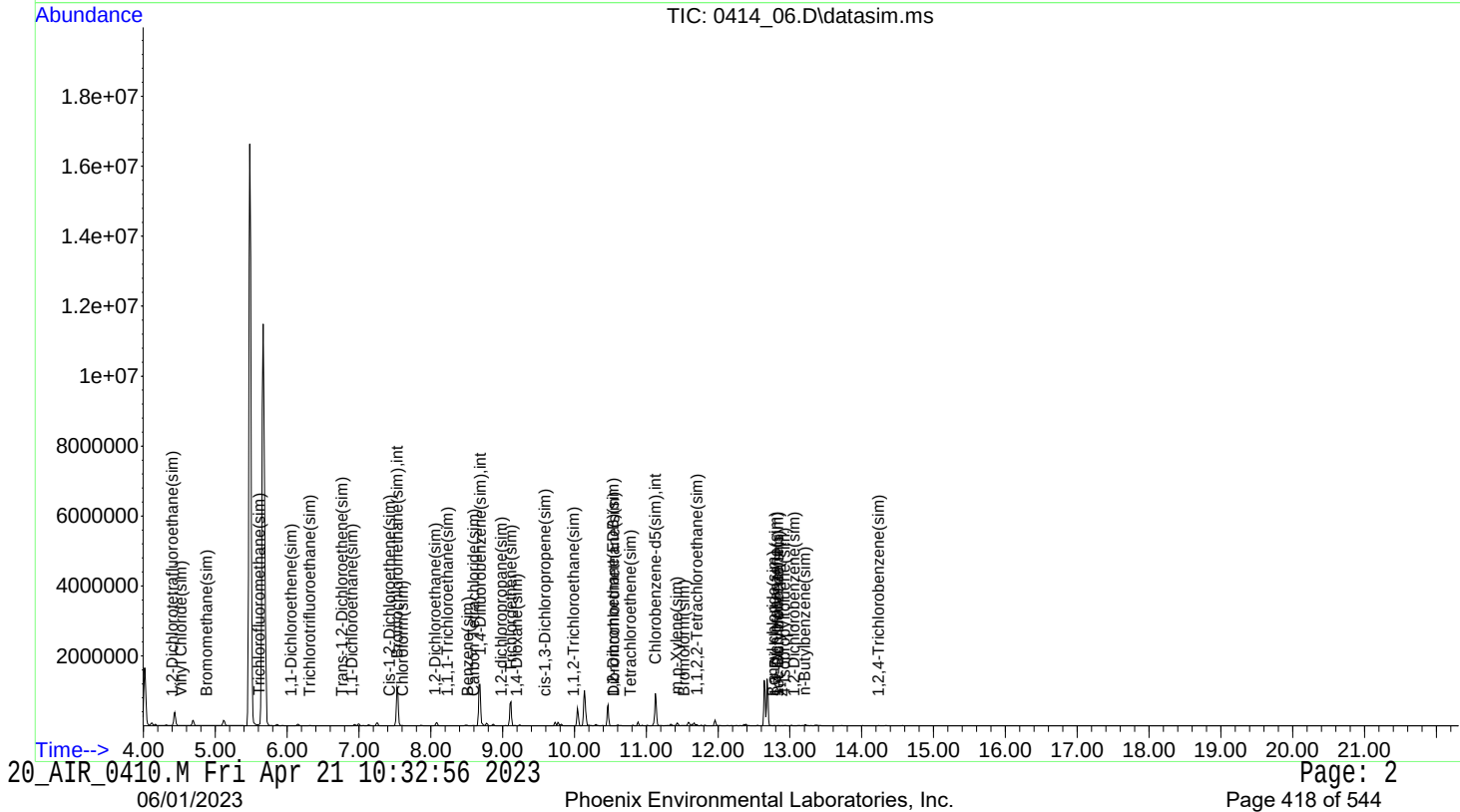
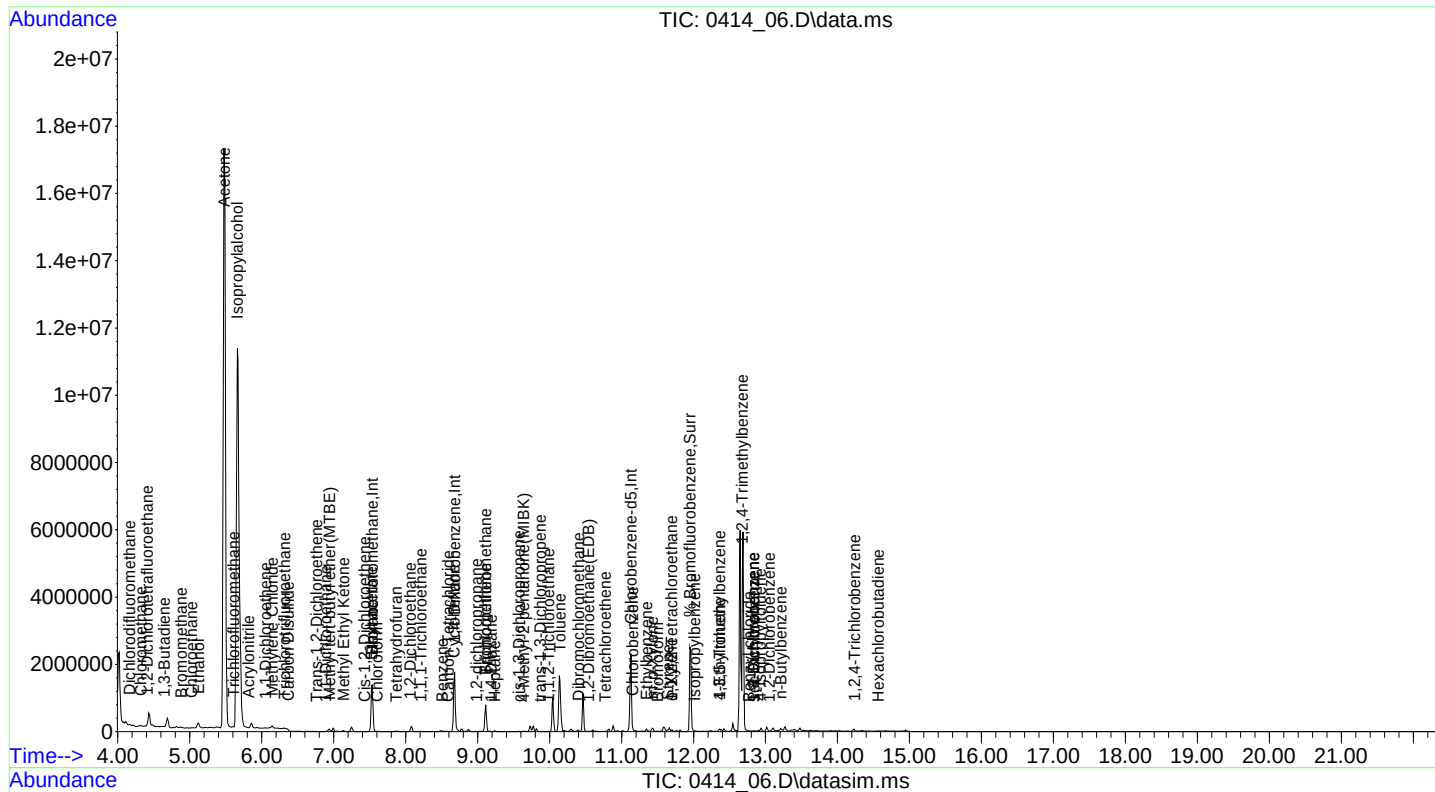
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.535	130	316255	10.000	ng	0.01
37) 1,4-Difluorobenzene	8.680	114	1185731	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	534401	10.000	ng	0.00
81) Bromochloromethane(sim)	7.530	130	353238	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1184250	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	533718	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	770217	10.554	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	105.50%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.160	85	34121	0.457	ppbv#	95
4) Chloromethane	4.322	50	22480	0.562	ppbv	90
11) Ethanol	5.120	45	174656	12.104	ppbv#	83
12) Acetone	5.475	43	21186570	291.589	ppbv#	89
13) Trichlorofluoromethane	5.605	101	15822	0.198	ppbv	97
14) Isopropylalcohol	5.658	45	17439151	267.913	ppbv#	99
17) Methylene Chloride	6.143	49	43028	0.785	ppbv	98
26) Methyl Ethyl Ketone	7.133	43	38475	0.347	ppbv	100
28) Hexane	7.535	57	122351	1.810	ppbv	97
35) Carbon Tetrachloride	8.589	117	4817	0.070	ppbv	92
49) Toluene	10.143	91	313217	2.501	ppbv	99
58) m,p-Xylene	11.427	91	59421	0.523	ppbv	95
67) 4-Ethyltoluene	12.360	105	65654	0.386	ppbv#	94
68) 1,3,5-Trimethylbenzene	12.360	105	65654	0.458	ppbv#	76
88] Benzene(sim)	8.510	78	10037	0.094	ppbv#	90
89] Carbon Tetrachloride(sim)	8.595	117	4548	0.066	ppbv	99

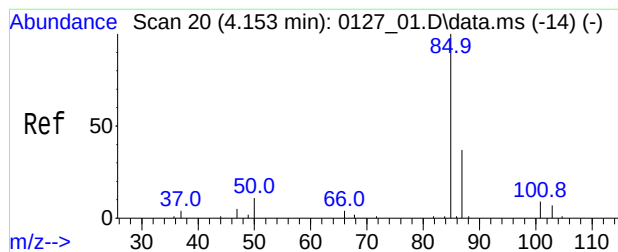
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

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Data Path   : H:\AIR2023\CHEM20\04APR\10\  
Data File   : 0414_06.D  
Acq On      : 14 Apr 2023  12:33 pm  
Operator    :  
Client ID   : 82795 dup  
Lab ID      : CN82795 DUP  
ALS Vial    : 3      Sample Multiplier: 1
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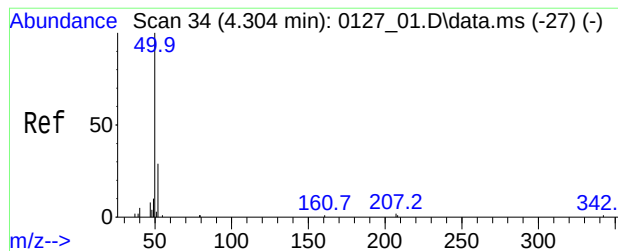
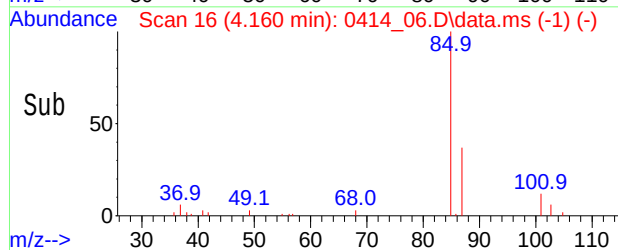
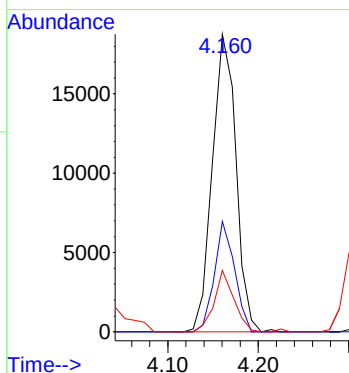
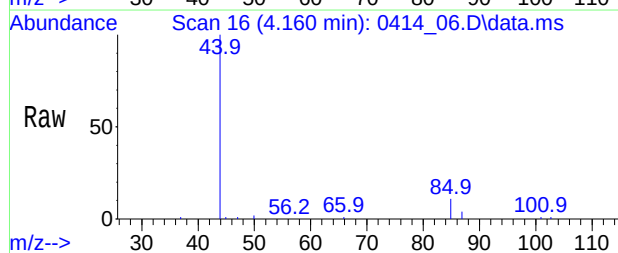
Quant Time: Apr 14 15:43:26 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration





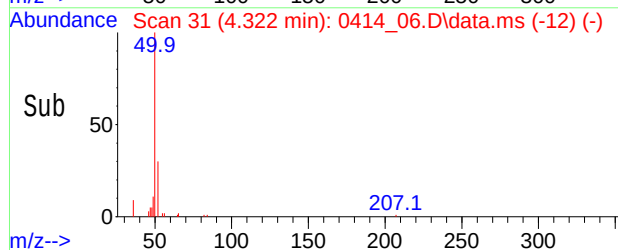
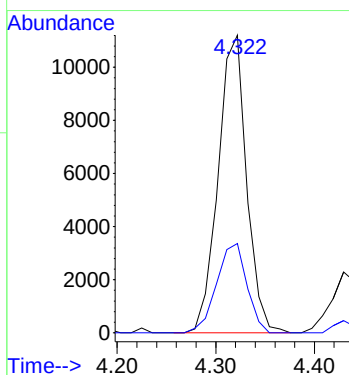
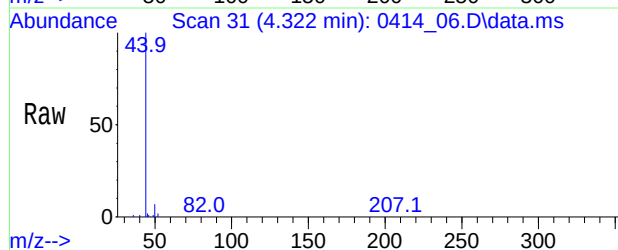
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.457 ppbv
 RT: 4.160 min Scan# 16
 Delta R.T. -0.011 min
 Lab File: 0414_06.D
 Acq: 14 Apr 2023 12:33 pm

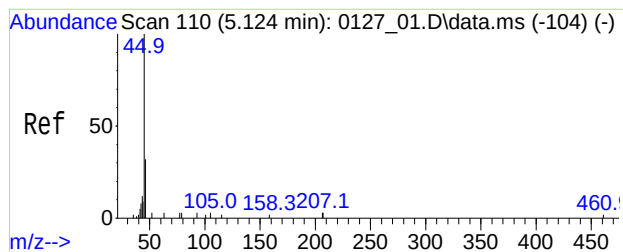
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.6	25.1	37.7
50	17.3	18.1	27.1#



#4
 Chloromethane
 Conc: 8\$ 0.562 ppbv
 RT: 4.322 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: 0414_06.D
 Acq: 14 Apr 2023 12:33 pm

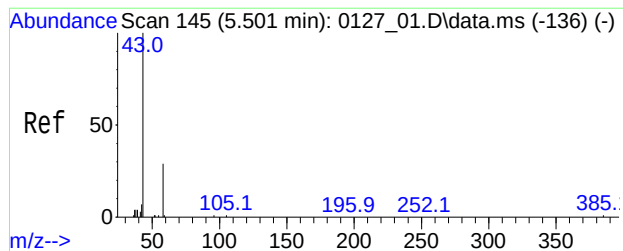
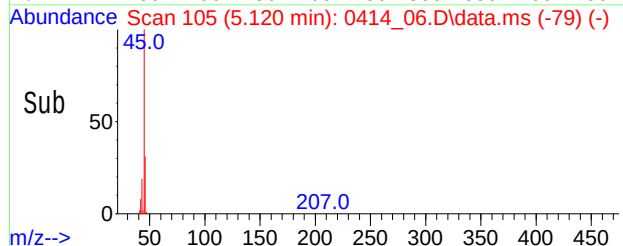
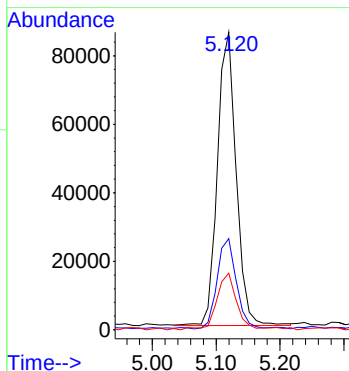
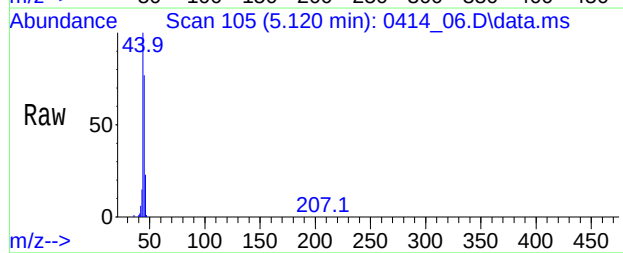
Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.9	18.1	58.1





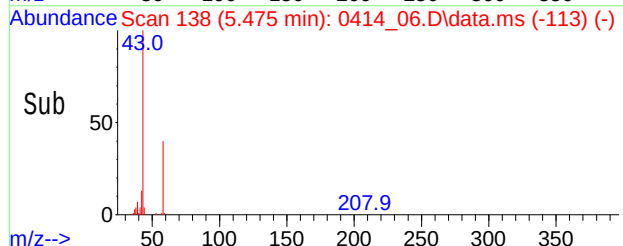
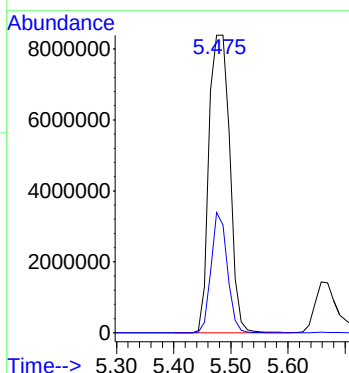
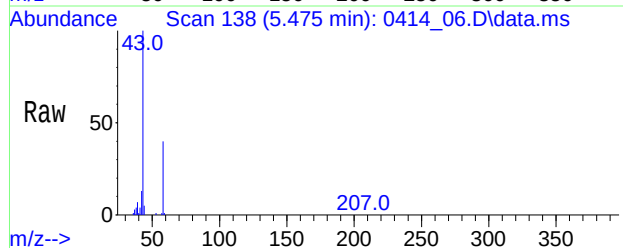
#11
Ethanol
Conc: 8\$ 12.104 ppbv
RT: 5.120 min Scan# 105
Delta R.T. -0.021 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

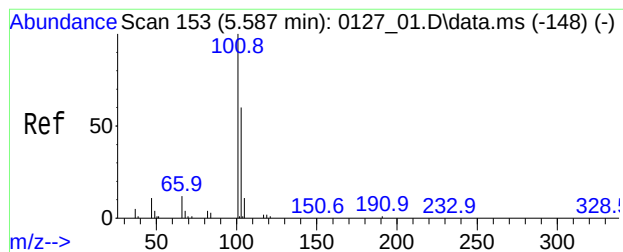
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.0	25.1	37.7
43	20.9	31.4	47.2#



#12
Acetone
Conc: 8\$ 291.589 ppbv
RT: 5.475 min Scan# 138
Delta R.T. -0.033 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

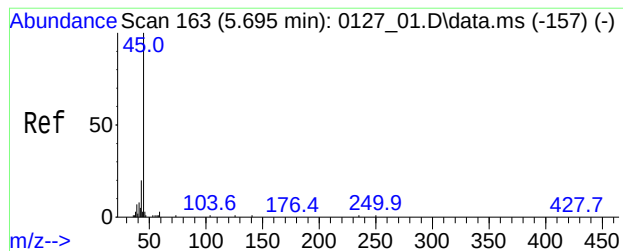
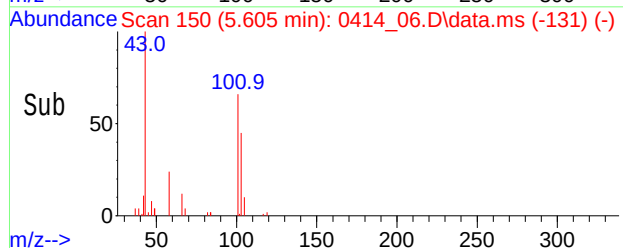
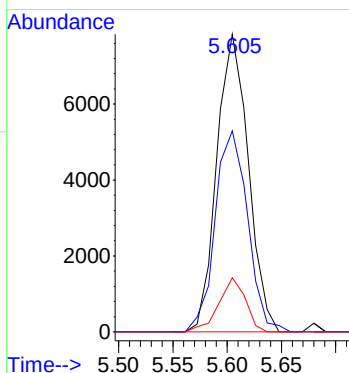
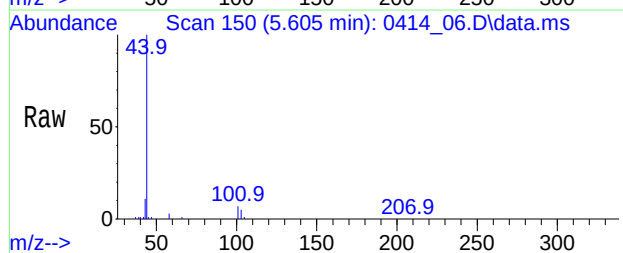
Tgt Ion	Ratio	Lower	Upper
43	100		
58	31.5	20.6	30.8#





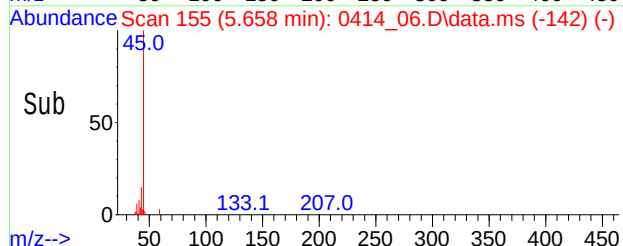
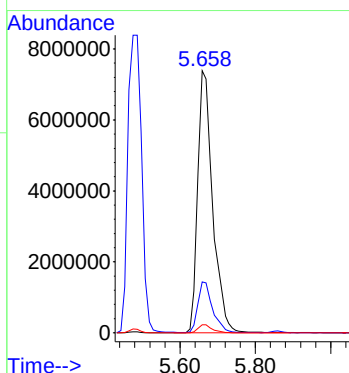
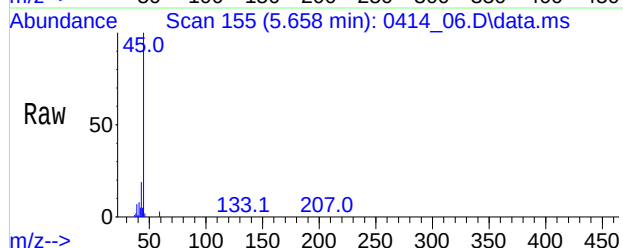
#13
 Trichlorofluoromethane
 Conc: 8\$ 0.198 ppbv
 RT: 5.605 min Scan# 150
 Delta R.T. -0.000 min
 Lab File: 0414_06.D
 Acq: 14 Apr 2023 12:33 pm

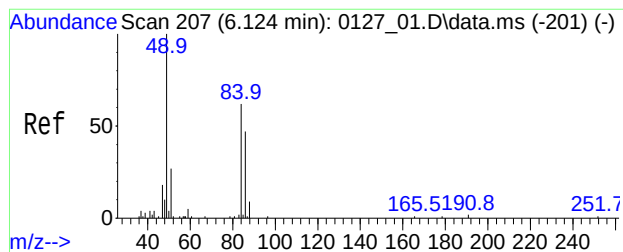
Tgt Ion:	101	Resp:	15822
Ion Ratio	Lower	Upper	
101	100		
103	69.6	53.8	80.8
66	15.4	12.9	19.3



#14
 Isopropylalcohol
 Conc: 8\$ 267.913 ppbv
 RT: 5.658 min Scan# 155
 Delta R.T. -0.063 min
 Lab File: 0414_06.D
 Acq: 14 Apr 2023 12:33 pm

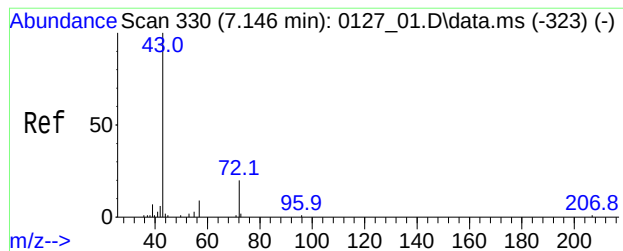
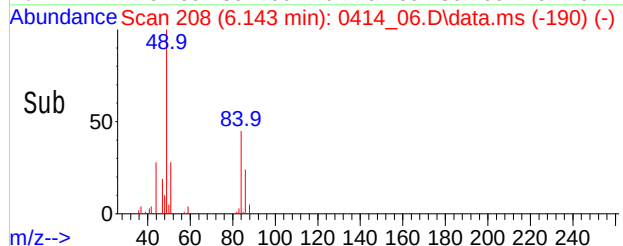
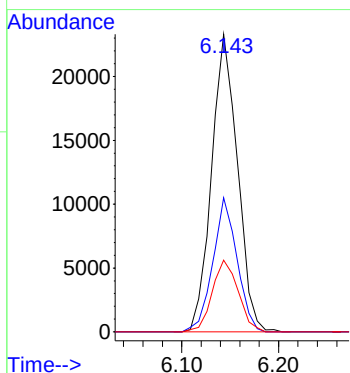
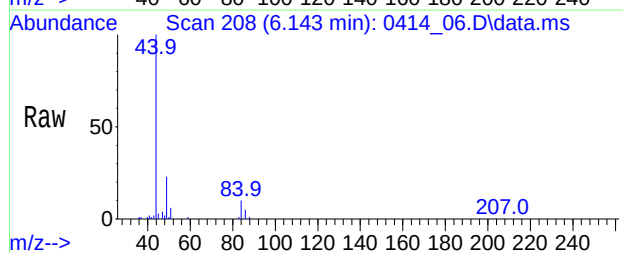
Tgt Ion:	45	Resp:	17439151
Ion Ratio	Lower	Upper	
45	100		
43	20.0	15.9	23.9
59	3.0	3.6	5.4#





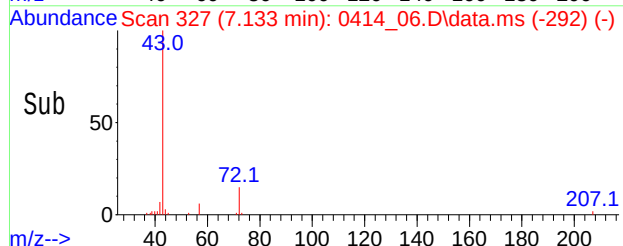
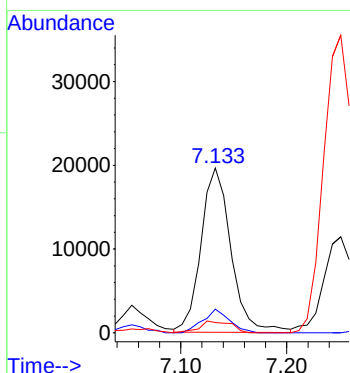
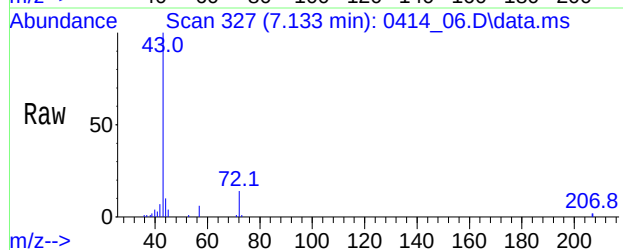
#17
Methylene Chloride
Conc: 8\$ 0.785 ppbv
RT: 6.143 min Scan# 208
Delta R.T. 0.008 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

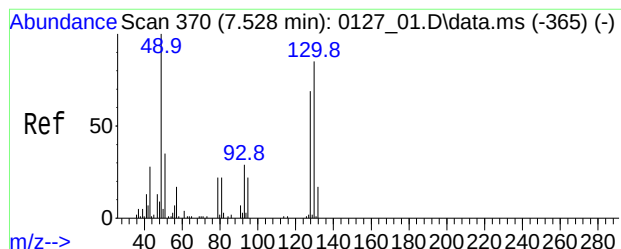
Tgt Ion	Ratio	Lower	Upper
49	100		
84	42.1	34.0	51.0
86	24.3	20.7	31.1



#26
Methyl Ethyl Ketone
Conc: 8\$ 0.347 ppbv
RT: 7.133 min Scan# 327
Delta R.T. -0.023 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

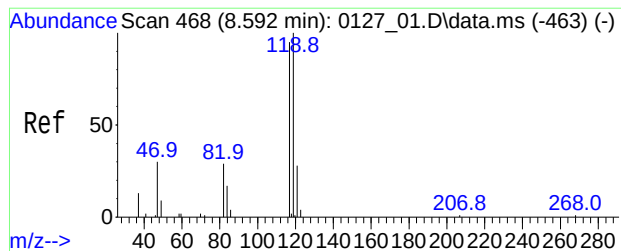
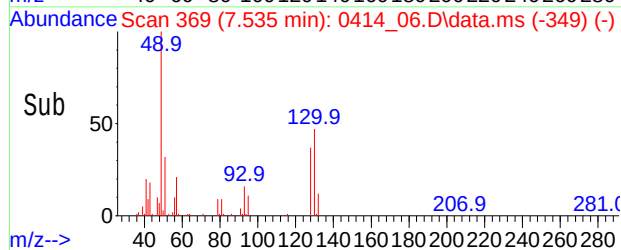
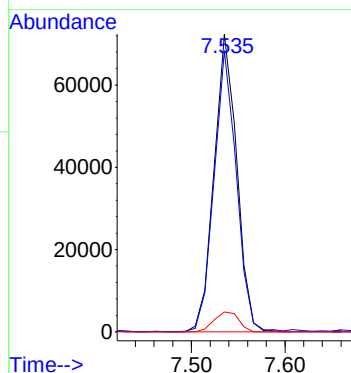
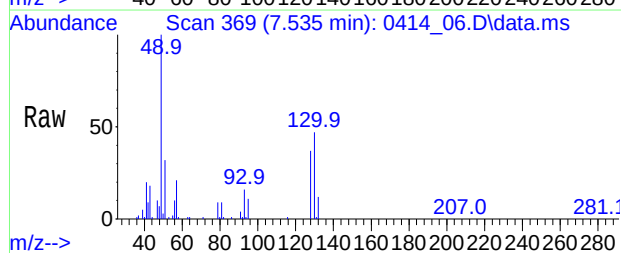
Tgt Ion	Ratio	Lower	Upper
43	100		
72	12.8	10.2	15.4
57	7.6	6.1	9.1





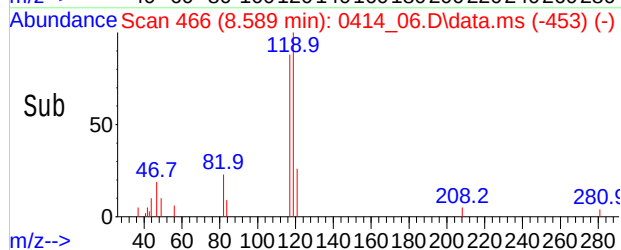
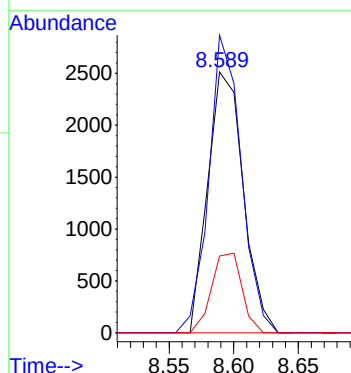
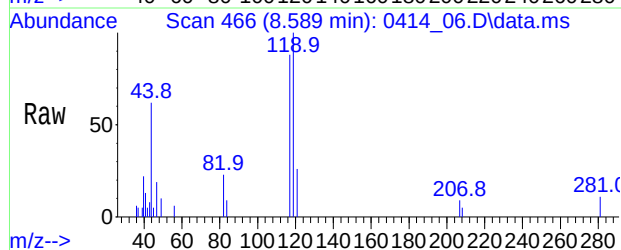
#28
Hexane
Conc: 8\$ 1.810 ppbv
RT: 7.535 min Scan# 369
Delta R.T. 0.010 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

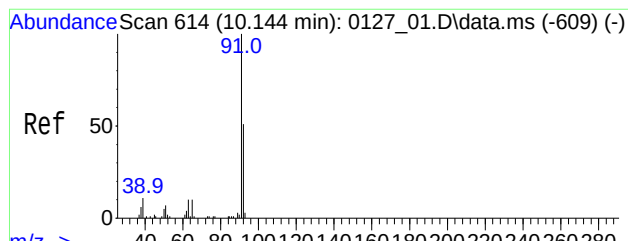
Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.9	72.3	108.5
86	7.3	7.0	10.6



#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.589 min Scan# 466
Delta R.T. -0.000 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

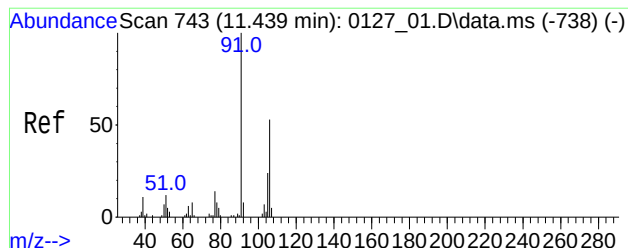
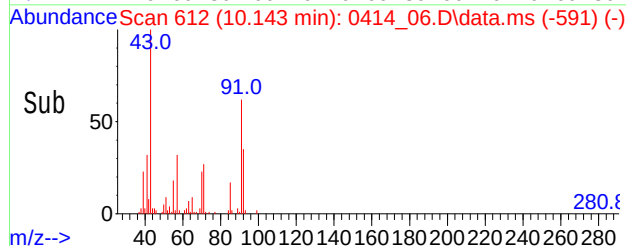
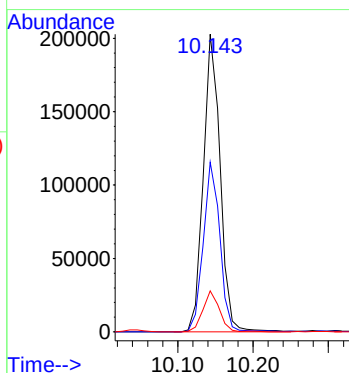
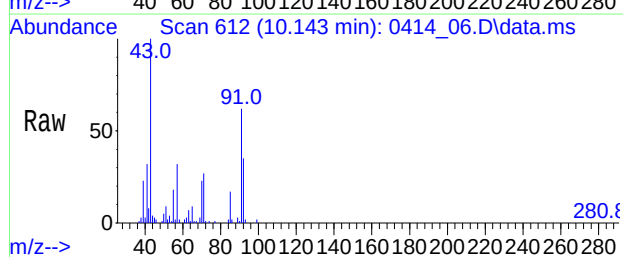
Tgt Ion	Ratio	Lower	Upper
117	100		
119	104.1	77.5	117.5
121	26.1	12.4	52.4





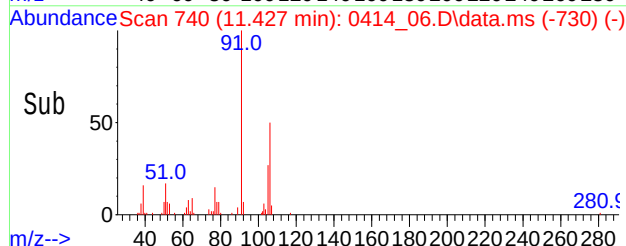
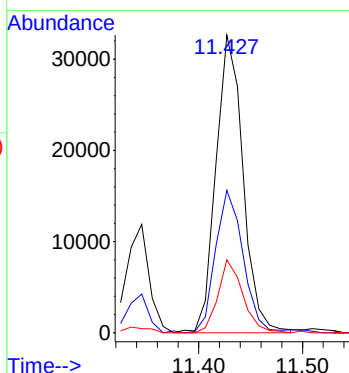
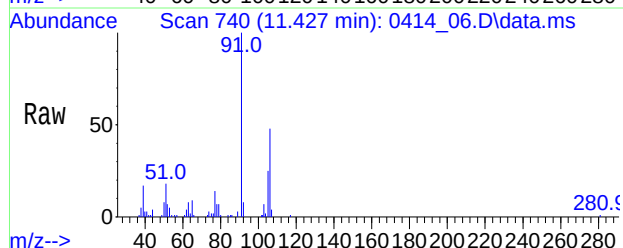
#49
Toluene
Conc: 8\$ 2.501 ppbv
RT: 10.143 min Scan# 612
Delta R.T. 0.000 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

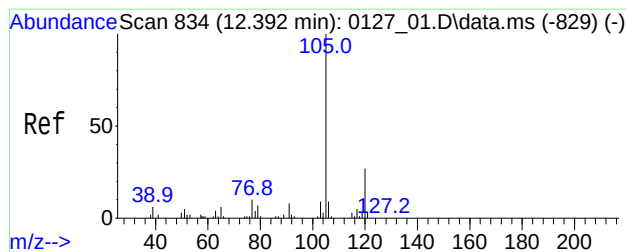
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	313217		
92	56.4	44.8	67.2	
65	13.7	10.5	15.7	



#58
m,p-Xylene
Conc: 8\$ 0.523 ppbv
RT: 11.427 min Scan# 740
Delta R.T. 0.000 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

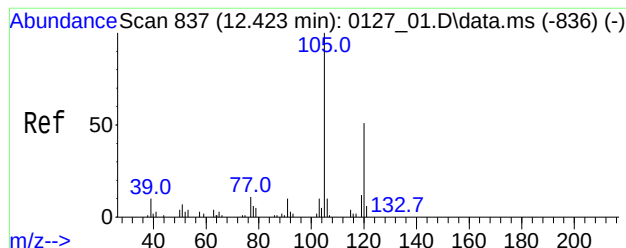
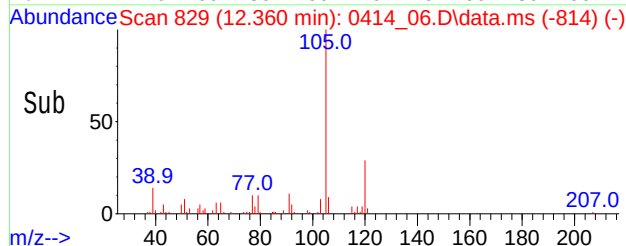
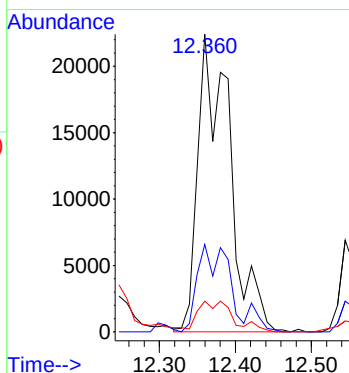
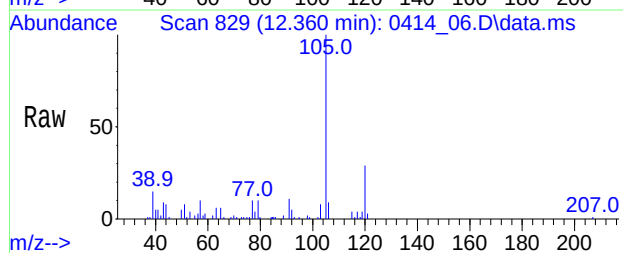
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	59421		
106	48.7	41.4	62.2	
105	22.5	19.8	29.8	





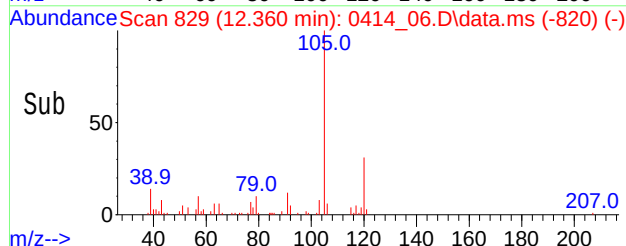
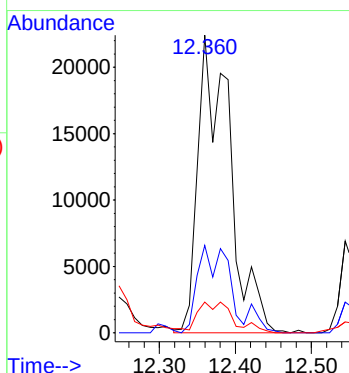
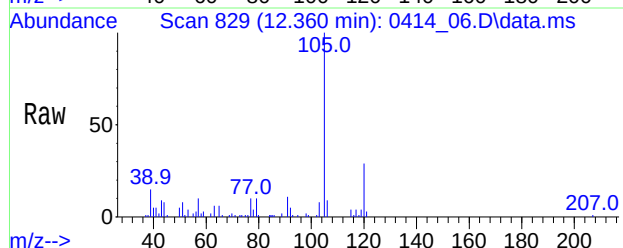
#67
4-Ethyltoluene
Conc: 8\$ 0.386 ppbv
RT: 12.360 min Scan# 829
Delta R.T. -0.021 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

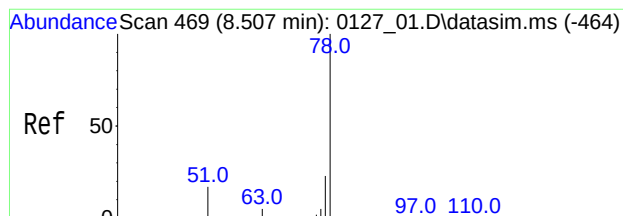
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	65654		
120	27.6	24.7	37.1	
77	8.0	8.8	13.2#	



#68
1,3,5-Trimethylbenzene
Conc: 8\$ 0.458 ppbv
RT: 12.360 min Scan# 829
Delta R.T. -0.062 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

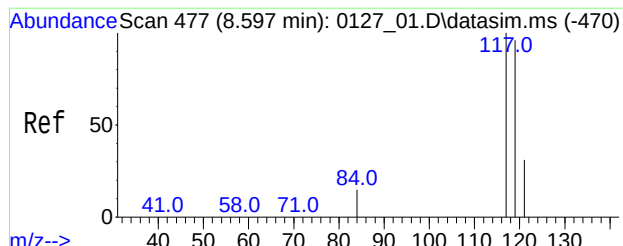
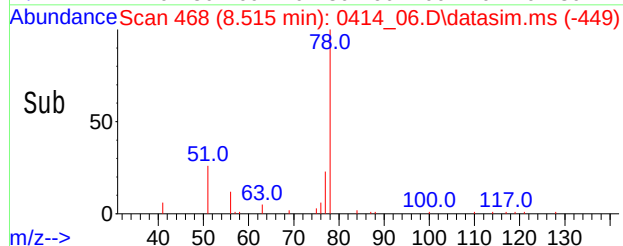
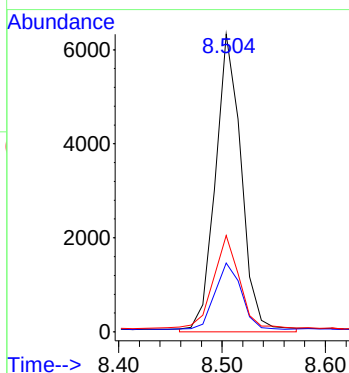
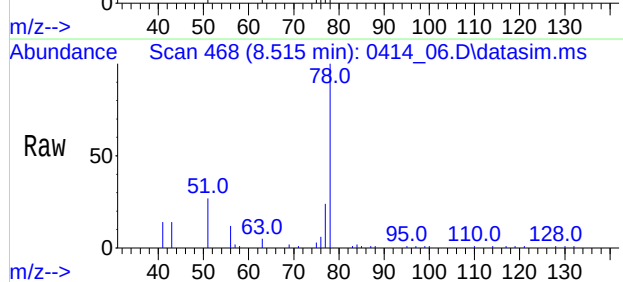
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	65654		
120	27.6	36.6	55.0#	
77	8.0	9.9	14.9#	





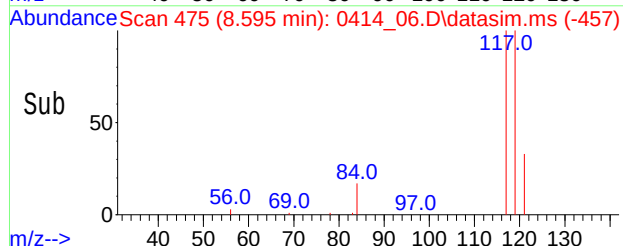
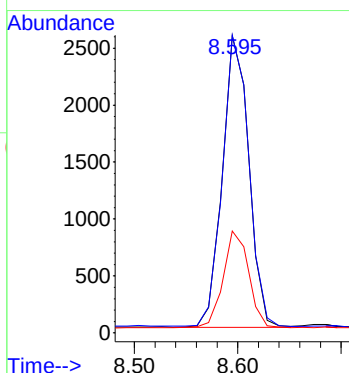
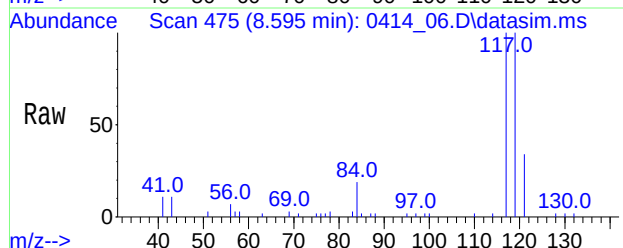
#88
Benzene(sim)
Conc: 8\$ 0.094 ppbv
RT: 8.510 min Scan# 468
Delta R.T. 0.011 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.5	20.0	30.0#
51	35.0	24.3	36.5



#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.066 ppbv
RT: 8.595 min Scan# 475
Delta R.T. -0.000 min
Lab File: 0414_06.D
Acq: 14 Apr 2023 12:33 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.9	79.2	118.8
121	32.1	25.5	38.3



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN84179 LCS
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84179 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>0417_04.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	Date Received:
				<u>04/14/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/17/23</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	9.38		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	10.5		0.202	0.202	r
74-87-3	Chloromethane	9.67		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	10.6		0.143	0.143	r
75-01-4	Vinyl Chloride	10.1		0.078	0.078	r
106-99-0	1,3-Butadiene	9.93		0.452	0.452	r
74-83-9	Bromomethane	10.6		0.258	0.258	r
75-00-3	Chloroethane	9.31		0.379	0.379	r
64-17-5	Ethanol	12.1		0.531	0.531	r
67-64-1	Acetone	9.02		0.421	0.421	r
75-69-4	Trichlorofluoromethane	10.9		0.178	0.178	r
67-63-0	Isopropylalcohol	9.22		0.407	0.407	r
107-13-1	Acrylonitrile	9.29		0.461	0.461	r
75-35-4	1,1-Dichloroethene	10.3		0.051	0.051	r
75-09-2	Methylene Chloride	9.89		0.863	0.863	r
75-15-0	Carbon Disulfide	10.5		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	11.0		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	9.99		0.252	0.252	r
75-34-3	1,1-Dichloroethane	9.94		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	9.89		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	10.2		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	9.94		0.051	0.051	r
110-54-3	Hexane	9.66		0.284	0.284	r
67-66-3	Chloroform	10.1		0.205	0.205	r
141-78-6	Ethyl acetate	7.74		0.278	0.278	r
109-99-9	Tetrahydrofuran	9.42		0.339	0.339	r
107-06-2	1,2-Dichloroethane	10.2		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	10.0		0.183	0.183	r
71-43-2	Benzene	9.80		0.313	0.313	r
56-23-5	Carbon Tetrachloride	9.47		0.032	0.032	r
110-82-7	Cyclohexane	9.68		0.291	0.291	r
78-87-5	1,2-dichloropropane	10.0		0.217	0.217	r
75-27-4	Bromodichloromethane	10.2		0.149	0.149	r
79-01-6	Trichloroethene	10.4		0.037	0.037	r
123-91-1	1,4-Dioxane	9.38		0.278	0.278	r
142-82-5	Heptane	9.44		0.244	0.244	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_04.D
 Acq On : 17 Apr 2023 1:29 pm
 Operator :
 Client ID : CN84179 LCS
 Lab ID : CN84179 LCS
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 18 10:25:29 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.505	130	372174	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.669	114	1356923	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	665835	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	356616	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.669	114	1356923	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	665804	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.982	95	931614	10.044	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.40%

Target Compounds						Qvalue
2) Propylene	4.008	41	193559	9.375	ppbv	99
3) Dichlorodifluoromethane	4.073	85	817422	10.487	ppbv	99
4) Chloromethane	4.235	50	204506	9.673	ppbv	98
5) 1,2-Dichlorotetrafluor...	4.325	85	816515	10.616	ppbv	98
6) Vinyl Chloride	4.438	62	274935	10.121	ppbv	100
7) 1,3-Butadiene	4.560	54	192241	9.925	ppbv	98
8) Bromomethane	4.803	94	319789	10.582	ppbv	99
9) Chloroethane	4.941	64	127485	9.308	ppbv	99
11) Ethanol	5.022	45	86336	12.062	ppbv	98
12) Acetone	5.412	43	339218	9.016	ppbv	97
13) Trichlorofluoromethane	5.541	101	843524	10.921	ppbv	100
14) Isopropylalcohol	5.590	45	410396	9.224	ppbv	99
15) Acrylonitrile	5.743	53	172663	9.291	ppbv	99
16) 1,1-Dichloroethene	6.001	61	454715	10.316	ppbv	95
17) Methylene Chloride	6.085	49	274518	9.890	ppbv	93
20) Carbon Disulfide	6.317	76	869591	10.538	ppbv	100
21) Trichlorotrifluoroethane	6.257	101	721364	10.947	ppbv	98
22) Trans-1,2-Dichloroethene	6.716	61	474778	9.989	ppbv	97
23) 1,1-Dichloroethane	6.853	63	591729	9.943	ppbv	100
24) Methyl tert-butyl ethe...	6.888	73	905401	9.894	ppbv	99
26) Methyl Ethyl Ketone	7.103	43	609514	10.208	ppbv	99
27) Cis-1,2-Dichloroethene	7.394	61	449699	9.941	ppbv	99
28) Hexane	7.505	57	487095	9.663	ppbv	98
29) Chloroform	7.577	83	738461	10.129	ppbv	99
30) Ethyl acetate	7.505	61	112898	7.737	ppbv	98
31) Tetrahydrofuran	7.846	42	312784	9.422	ppbv	98
32) 1,2-Dichloroethane	8.052	62	407459	10.237	ppbv	99
33) 1,1,1-Trichloroethane	8.211	97	714863	10.001	ppbv	100
34) Benzene	8.496	78	1116497	9.800	ppbv	99
35) Carbon Tetrachloride	8.583	117	730711	9.469	ppbv	99
36) Cyclohexane	8.661	84	435919	9.680	ppbv	98
38) 1,2-dichloropropane	8.972	63	435469	9.997	ppbv	99
39) Bromodichloromethane	9.085	83	769234	10.216	ppbv	100
40) Trichloroethene	9.111	130	597593	10.418	ppbv	99
42) 1,4-Dioxane	9.102	88	238099	9.379	ppbv	98
44) Heptane	9.240	43	533775	9.441	ppbv	96
45) cis-1,3-Dichloropropene	9.589	75	653661	10.137	ppbv	100
46) 4-Methyl-2-pentanone(M...	9.596	43	684495	9.563	ppbv	99
47) trans-1,3-Dichloropropene	9.878	75	595654	10.221	ppbv	100
48) 1,1,2-Trichloroethane	9.998	97	502502	10.180	ppbv	100
49) Toluene	10.153	91	1475214	9.978	ppbv	99
50) Dibromochloromethane	10.406	129	937981	9.931	ppbv	100

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_04.D
 Acq On : 17 Apr 2023 1:29 pm
 Operator :
 Client ID : CN84179 LCS
 Lab ID : CN84179 LCS
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 18 10:25:29 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.272	43	664289	9.806	ppbv	99
52)	1,2-Dibromoethane(EDB)	10.554	107	847587	10.386	ppbv	100
53)	Tetrachloroethene	10.793	166	836428	10.069	ppbv	100
55)	1,1,1,2-Tetrachloroethane	11.155	131	660795	10.688	ppbv	99
56)	Chlorobenzene	11.170	112	1197555	10.044	ppbv	99
57)	Ethylbenzene	11.360	91	1854677	10.013	ppbv	100
58)	m,p-Xylene	11.451	91	2874921	20.443	ppbv	100
59)	Bromoform	11.534	173	1013671	9.379	ppbv	100
60)	Styrene	11.656	104	1151569	10.033	ppbv	99
61)	1,1,2,2-Tetrachloroethane	11.716	83	1059234	10.024	ppbv	99
62)	o-Xylene	11.724	91	1449831	9.940	ppbv	100
65)	Isopropylbenzene	12.042	105	2158875	10.777	ppbv	99
67)	4-Ethyltoluene	12.414	105	2111600	9.953	ppbv	100
68)	1,3,5-Trimethylbenzene	12.452	105	1720446	9.969	ppbv	100
69)	1,2,4-Trimethylbenzene	12.703	105	1756103	10.032	ppbv	98
71)	Benzyl chloride	12.802	91	1300323	9.149	ppbv	99
72)	1,3-Dichlorobenzene	12.825	146	1294058	9.851	ppbv	99
73)	1,4-Dichlorobenzene	12.863	146	1261004	9.865	ppbv	99
74)	sec-Butylbenzene	12.870	105	2697603	10.925	ppbv	100
75)	4-Isopropyltoluene	12.954	119	2507677	10.715	ppbv	100
76)	1,2-Dichlorobenzene	13.083	146	1189456	9.639	ppbv	100
77)	n-Butylbenzene	13.219	91	2120962	10.845	ppbv	100
78)	1,2,4-Trichlorobenzene	14.275	180	1119823	11.146	ppbv	100
80)	Hexachlorobutadiene	14.624	225	1075896	11.444	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.325	85	815837	10.289	ppbv	97
83)	Vinyl Chloride(sim)	4.441	62	277345	10.033	ppbv	100
84)	Bromomethane(sim)	4.803	94	319789	10.132	ppbv	99
85)	Trichlorofluoromethane...	5.544	101	848683	10.922	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.052	62	407459	10.242	ppbv	99
87)	1,1,1-Trichloroethane(...	8.214	97	744423	10.087	ppbv#	99
88)	Benzene(sim)	8.496	78	1116497	8.689	ppbv	99
89)	Carbon Tetrachloride(sim)	8.586	117	718022	9.713	ppbv	100
90)	1,1-Dichloroethene(sim)	6.001	61	454715	10.006	ppbv	95
91)	Trichlorotrifluoroetha...	6.260	101	710504	10.627	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.716	61	474778	9.934	ppbv	97
93)	1,1-Dichloroethane(sim)	6.856	63	606978	10.078	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.394	61	449699	9.839	ppbv	99
95)	Chloroform(sim)	7.580	83	740728	9.361	ppbv	100
97)	1,2-dichloropropane(sim)	8.975	63	443977	9.997	ppbv	99
98)	Bromodichloromethane(sim)	9.085	83	769234	9.909	ppbv	99
99)	Trichloroethene(sim)	9.105	130	577573	10.212	ppbv	99
100)	1,4-Dioxane(sim)	9.102	88	238099	9.161	ppbv	98
101)	cis-1,3-Dichloropropen...	9.592	75	672443	10.431	ppbv	100
102)	1,1,2-Trichloroethane(...	9.998	97	501736	10.023	ppbv	99
103)	Dibromochloromethane(sim)	10.409	129	896031	10.281	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.554	107	847587	10.254	ppbv	100
105)	Tetrachloroethene(sim)	10.796	166	801648	9.604	ppbv	100
107)	Bromoform(sim)	11.537	173	932883	9.518	ppbv	100
108)	m,p-Xylene(sim)	11.451	91	2879753	19.298	ppbv	100
109)	1,1,2,2-Tetrachloroeth...	11.719	83	1034690	9.078	ppbv	100
112)	Benzyl chloride(sim)	12.802	91	1300323	8.557	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.820	146	1354763	9.430	ppbv	100
115)	sec-Butylbenzene(sim)	12.706	105	1849060	9.437	ppbv	96
116)	4-Isopropyltoluene(sim)	12.954	119	2507493	9.856	ppbv	100
117)	1,2-Dichlorobenzene(sim)	13.078	146	1222365	9.289	ppbv	100

Data Path : H:\AIR2023\CHEM39\04APR\17\
Data File : 0417_04.D
Acq On : 17 Apr 2023 1:29 pm
Operator :
Client ID : CN84179 LCS
Lab ID : CN84179 LCS
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Apr 18 10:25:29 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:21:21 2023
Response via : Initial Calibration

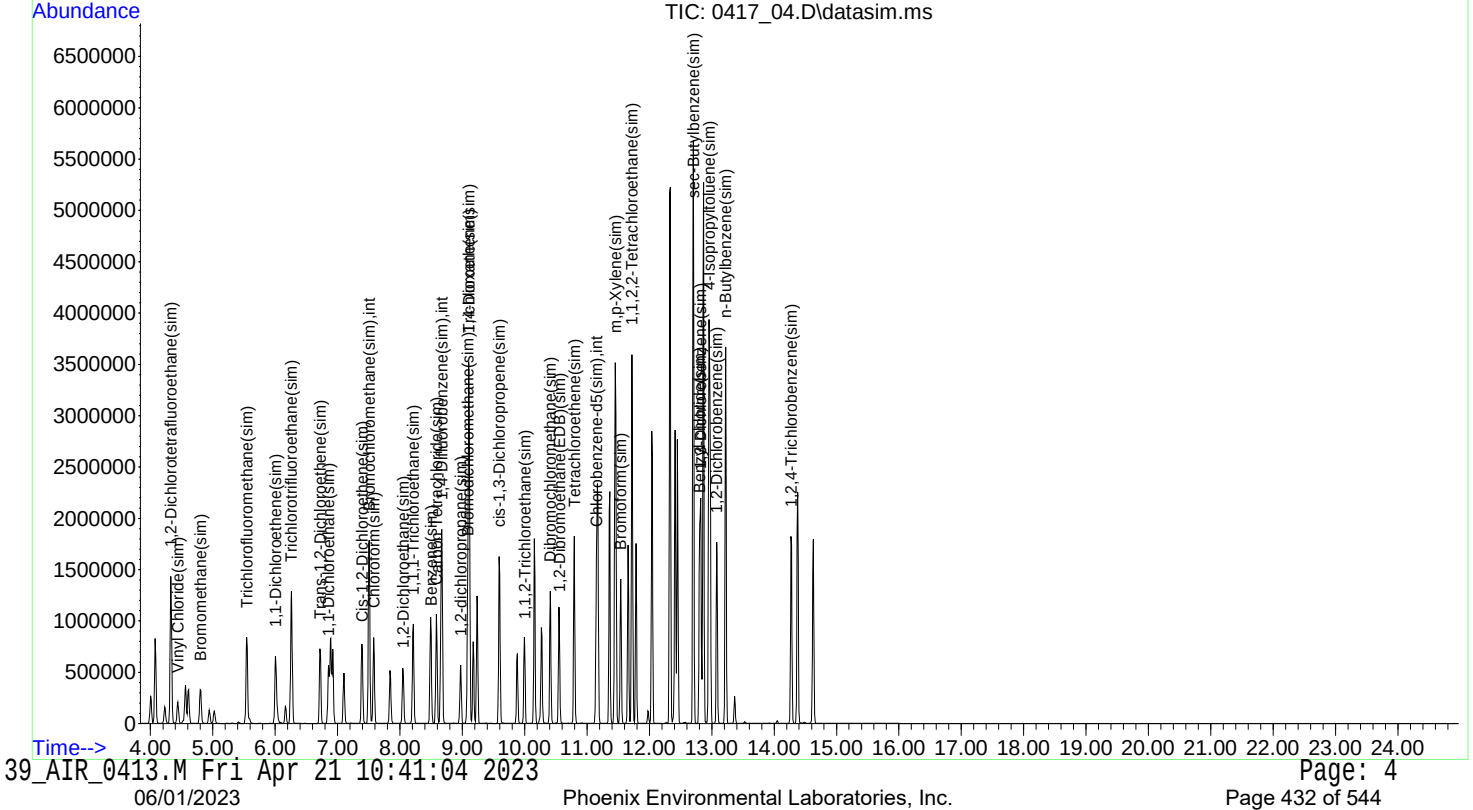
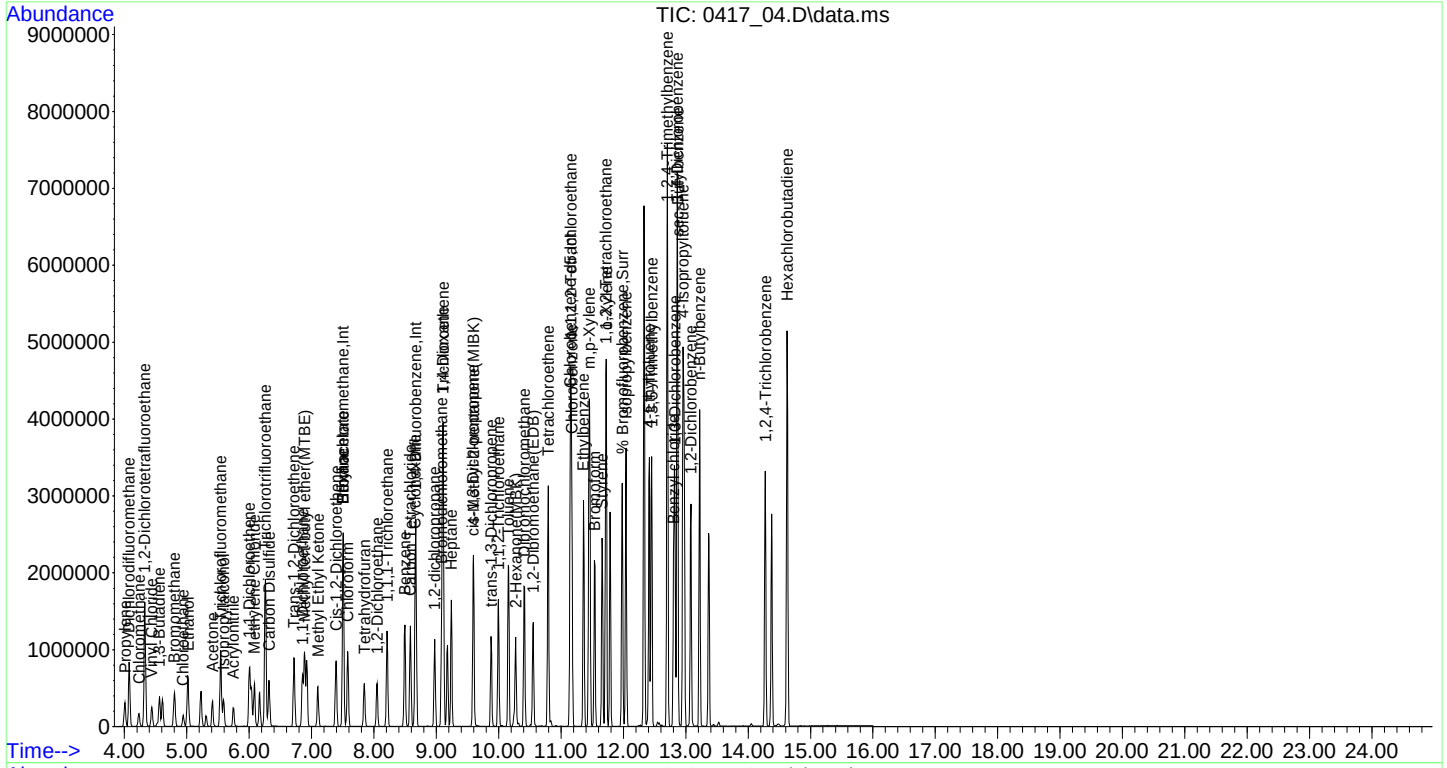
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
118]	n-Butylbenzene(sim)	13.219	91	2120962	10.332	ppbv	100
119]	1,2,4-Trichlorobenzene...	14.270	180	1133934	11.471	ppbv	100

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

```
Data Path : H:\AIR2023\CHEM39\04APR\17\  
Data File : 0417_04.D  
Acq On : 17 Apr 2023 1:29 pm  
Operator :  
Client ID : CN84179 LCS  
Lab ID : CN84179 LCS  
ALS Vial : 34 Sample Multiplier: 1
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Quant Time: Apr 18 10:25:29 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:21:21 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN84179 QC
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84179</u>	
Canister:	<u>12858</u>	Lab File ID:	<u>0417_09.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	Date Received:
				<u>04/14/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/17/23</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.480		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	3.50	S	0.531	0.531	r
67-64-1	Acetone	16.1	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.254		0.178	0.178	r
67-63-0	Isopropylalcohol	0.856	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.451		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	1.77		0.339	0.339	r
110-54-3	Hexane	3.57	S	0.284	0.284	r
67-66-3	Chloroform	0.385		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.594		0.339	0.339	r
71-43-2	Benzene	1.30		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	3.30		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	22.7		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.469		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	5.10		0.230	0.230	r
179601-23-1	m,p-Xylene	22.5		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	8.12		0.230	0.230	r
98-82-8	Isopropylbenzene	2.12		0.204	0.204	r
622-96-8	4-Ethyltoluene	8.04		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	2.42		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	11.6		0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CN84179
Canister:	12858	Lab File ID:	0417_09.D
Instrument:	CHEM39	Column:	TX-1 ; #10157
Purge Volume	200	(cc)	04/14/23
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
99-87-6	4-Isopropyltoluene	0.288		0.182	0.182	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.057		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_09.D
 Acq On : 17 Apr 2023 4:32 pm
 Operator :
 Client ID : CN84179 QC
 Lab ID : CN84179 QC
 ALS Vial : 39 Sample Multiplier: 1

Quant Time: Apr 18 10:27:53 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.497	130	372264	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.669	114	1366674	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	634512	10.000	ng	0.00
81) Bromochloromethane(sim)	7.500	130	358305	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.669	114	1366674	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	634512	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.982	95	887479	10.041	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.40%

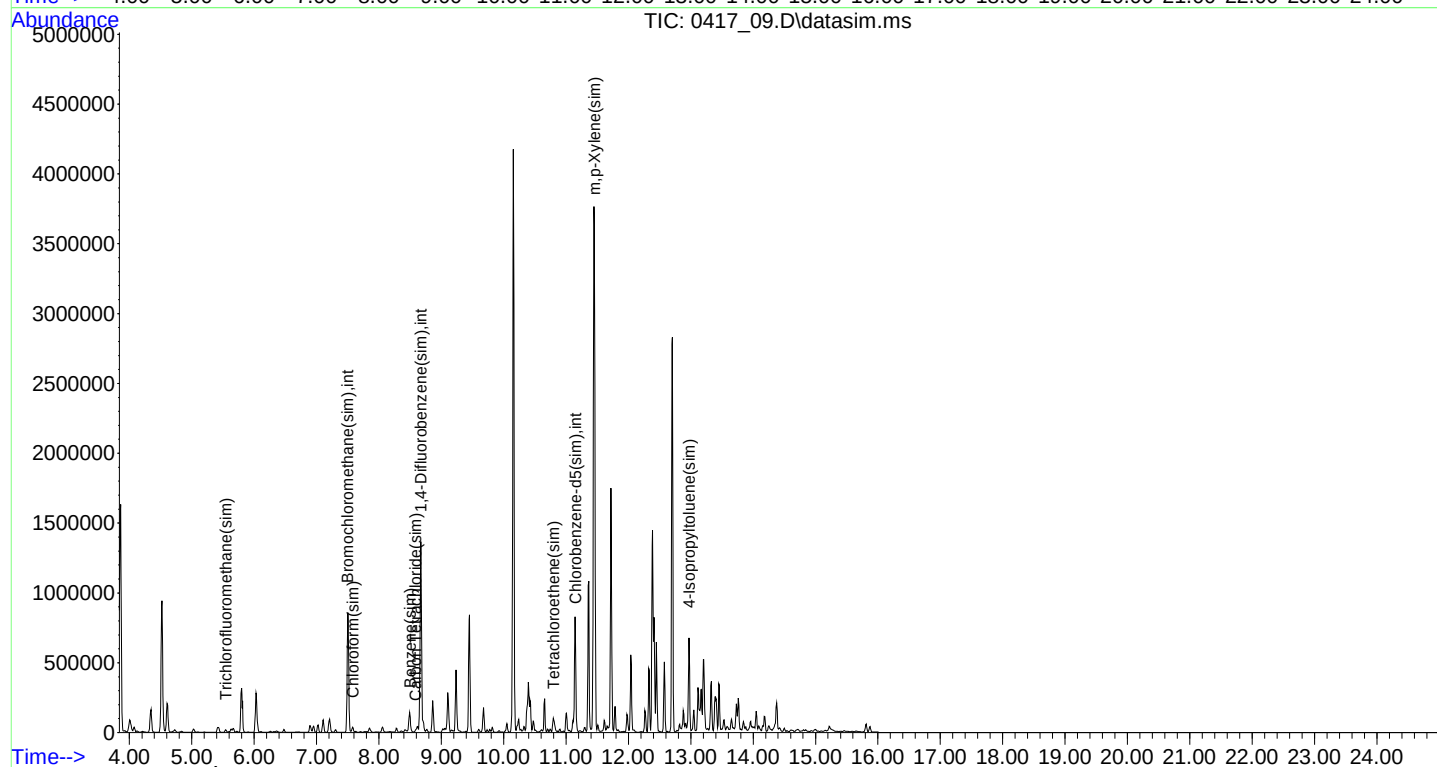
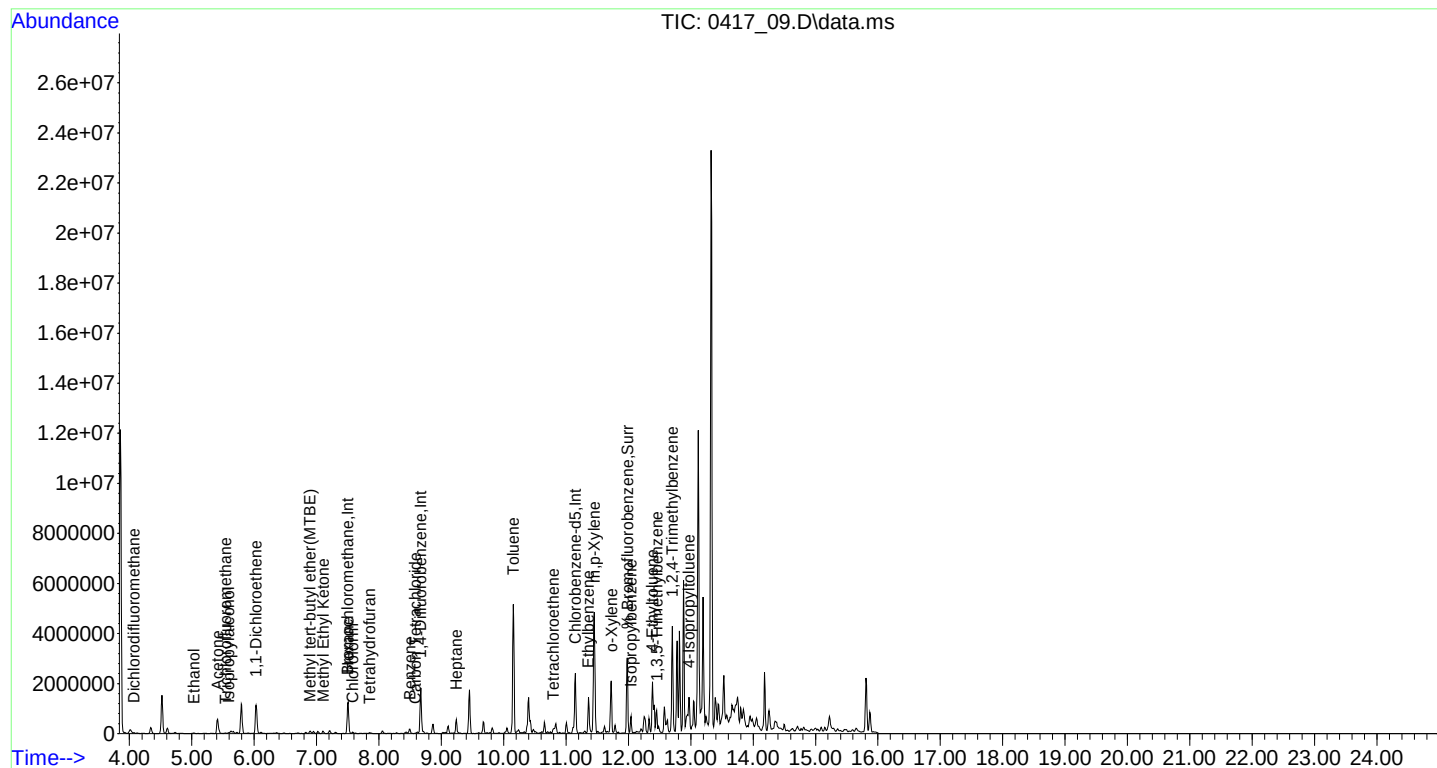
Target Compounds					Qvalue	
3) Dichlorodifluoromethane	4.073	85	37443	0.480	ppbv	99
11) Ethanol	5.030	45	25025	3.495	ppbv	94
12) Acetone	5.412	43	605711	16.095	ppbv	94
13) Trichlorofluoromethane	5.541	101	19595	0.254	ppbv	99
14) Isopropylalcohol	5.590	45	38084	0.856	ppbv#	93
16) 1,1-Dichloroethene	6.025	61	3404	0.077	ppbv#	23
24) Methyl tert-butyl ethe...	6.894	73	41235	0.450	ppbv#	72
26) Methyl Ethyl Ketone	7.103	43	105557	1.767	ppbv	96
28) Hexane	7.505	57	179937	3.569	ppbv	99
29) Chloroform	7.577	83	28054	0.385	ppbv	97
31) Tetrahydrofuran	7.846	42	19735	0.594	ppbv	93
34) Benzene	8.496	78	148009	1.299	ppbv	100
35) Carbon Tetrachloride	8.583	117	4481	0.058	ppbv	97
44) Heptane	9.240	43	187902	3.300	ppbv	99
49) Toluene	10.152	91	3373829	22.658	ppbv	100
53) Tetrachloroethene	10.793	166	39247	0.469	ppbv	98
57) Ethylbenzene	11.360	91	900936	5.104	ppbv	99
58) m,p-Xylene	11.451	91	3021480	22.545	ppbv	99
62) o-Xylene	11.724	91	1129299	8.125	ppbv	100
65) Isopropylbenzene	12.042	105	404825	2.121	ppbv	100
67) 4-Ethyltoluene	12.384	105	1625637	8.041	ppbv	99
68) 1,3,5-Trimethylbenzene	12.452	105	397410	2.417	ppbv	99
69) 1,2,4-Trimethylbenzene	12.703	105	1937546	11.615	ppbv#	86
75) 4-Isopropyltoluene	12.969	119	64220	0.288	ppbv#	39
85) Trichlorofluoromethane...	5.544	101	19252	0.247	ppbv#	100
88) Benzene(sim)	8.496	78	148009	1.146	ppbv	100
89) Carbon Tetrachloride(sim)	8.586	117	4256	0.057	ppbv	100
95) Chloroform(sim)	7.579	83	27942	0.351	ppbv	98
105) Tetrachloroethene(sim)	10.796	166	37316	0.444	ppbv	99
108) m,p-Xylene(sim)	11.451	91	3028110	21.293	ppbv	99
116) 4-Isopropyltoluene(sim)	12.969	119	64220	0.265	ppbv#	39

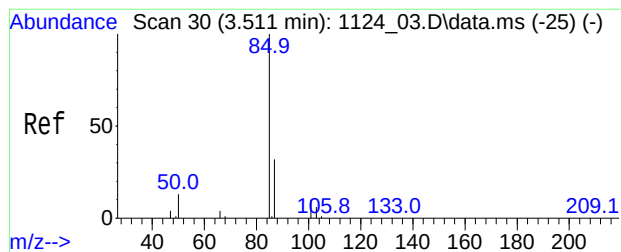
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_09.D
 Acq On : 17 Apr 2023 4:32 pm
 Operator :
 Client ID : CN84179 QC
 Lab ID : CN84179 QC
 ALS Vial : 39 Sample Multiplier: 1

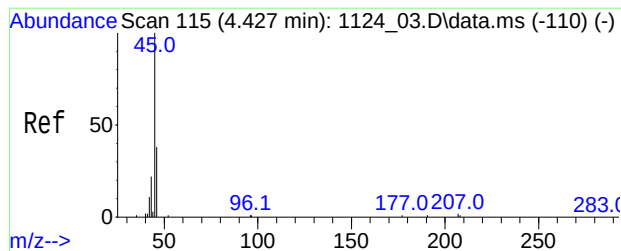
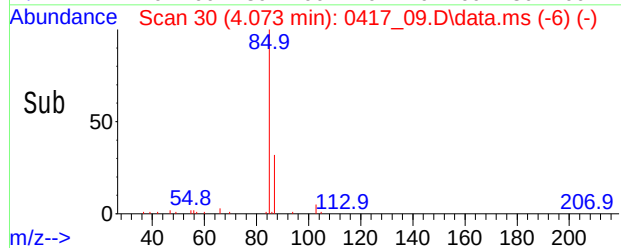
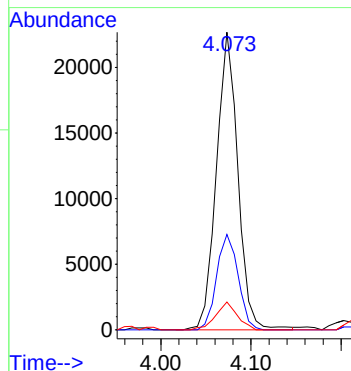
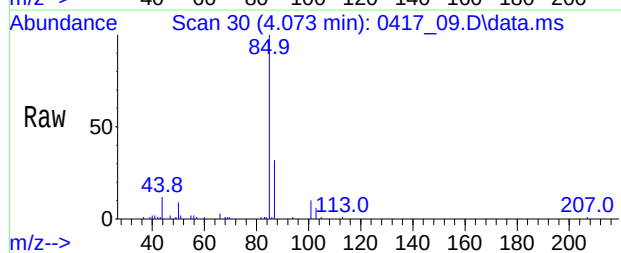
Quant Time: Apr 18 10:27:53 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration





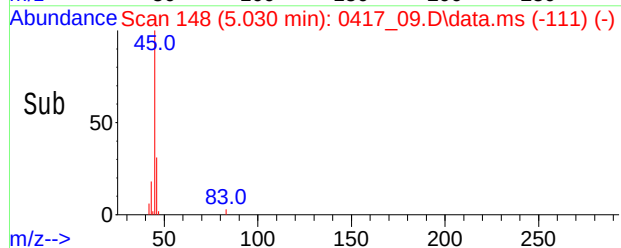
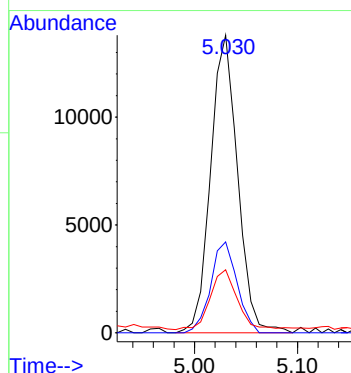
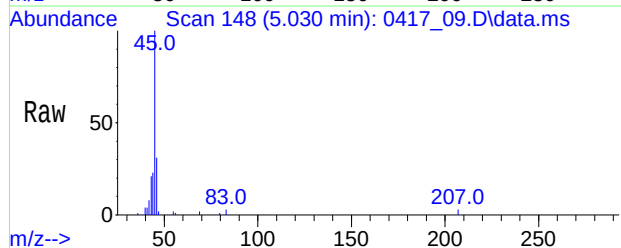
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.480 ppbv
 RT: 4.073 min Scan# 30
 Delta R.T. -0.008 min
 Lab File: 0417_09.D
 Acq: 17 Apr 2023 4:32 pm

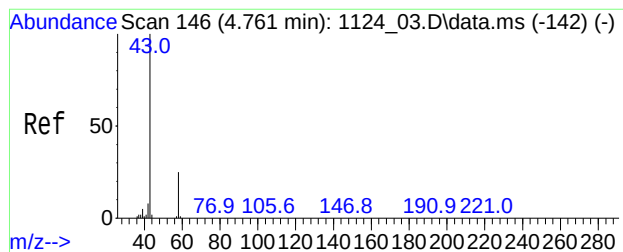
Tgt Ion: 85 Resp: 37443
 Ion Ratio Lower Upper
 85 100
 87 32.1 25.9 38.9
 50 9.4 7.4 11.0



#11
 Ethanol
 Conc: 8\$ 3.495 ppbv
 RT: 5.030 min Scan# 148
 Delta R.T. 0.000 min
 Lab File: 0417_09.D
 Acq: 17 Apr 2023 4:32 pm

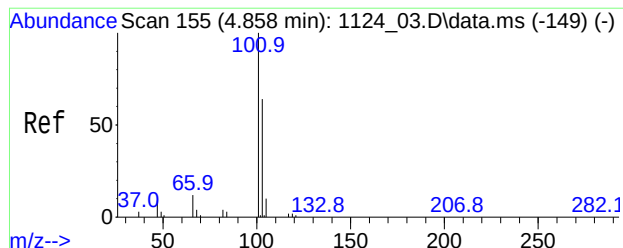
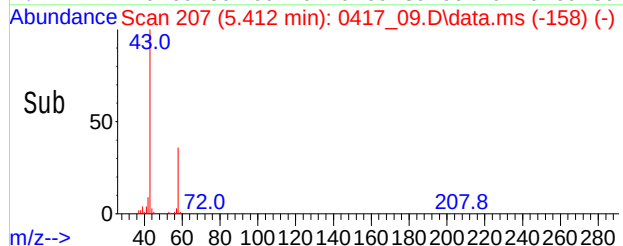
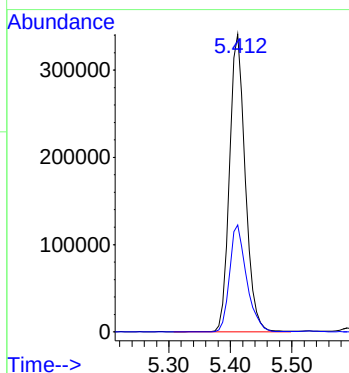
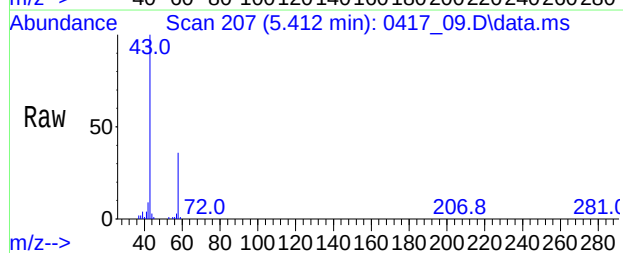
Tgt Ion: 45 Resp: 25025
 Ion Ratio Lower Upper
 45 100
 46 29.8 27.8 41.6
 43 20.7 16.9 25.3





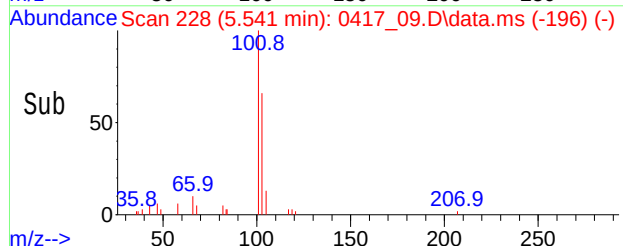
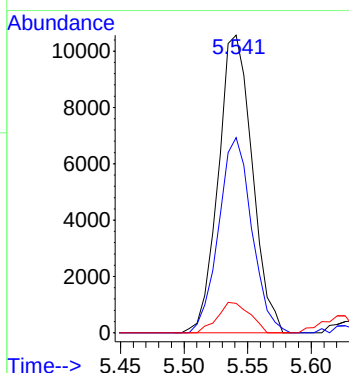
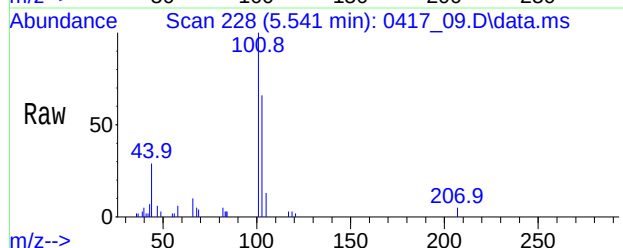
#12
Acetone
Conc: 8\$ 16.095 ppbv
RT: 5.412 min Scan# 207
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

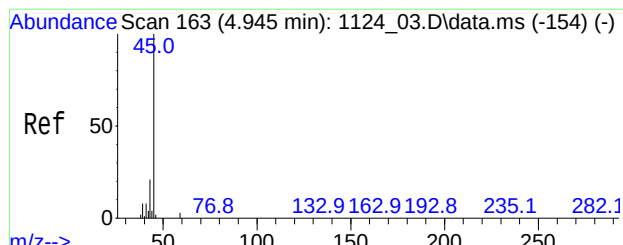
Tgt Ion: 43 Resp: 605711
Ion Ratio Lower Upper
43 100
58 38.8 28.3 42.5



#13
Trichlorofluoromethane
Conc: 8\$ 0.254 ppbv
RT: 5.541 min Scan# 228
Delta R.T. -0.006 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

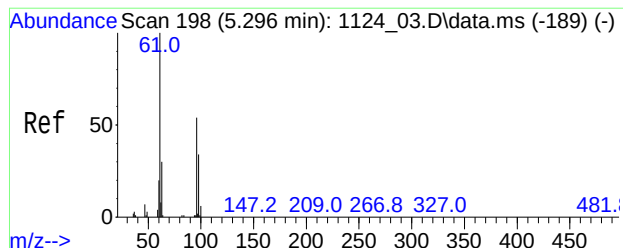
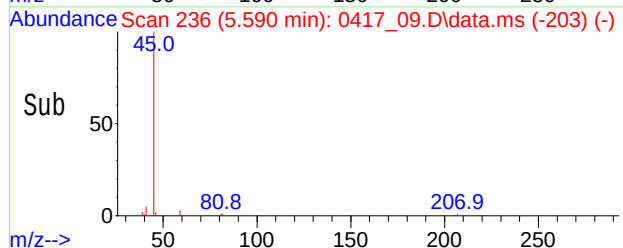
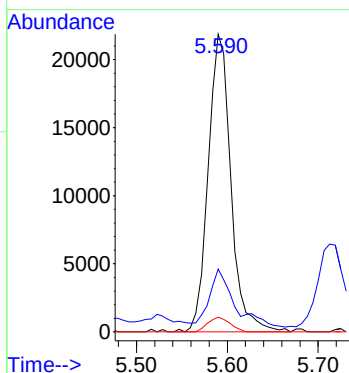
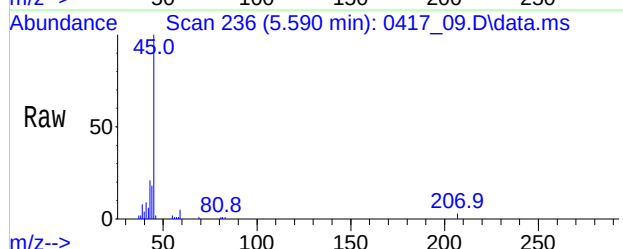
Tgt Ion: 101 Resp: 19595
Ion Ratio Lower Upper
101 100
103 64.1 52.1 78.1
66 9.7 8.6 12.8





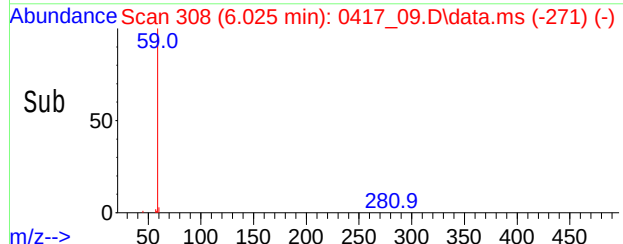
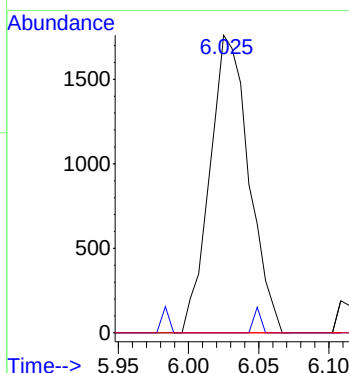
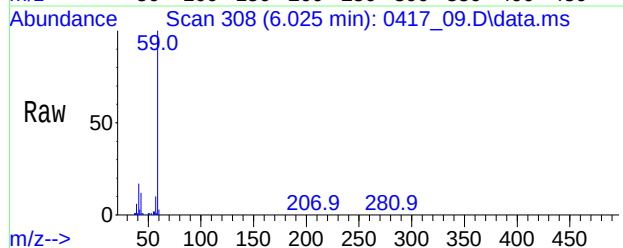
#14
Isopropylalcohol
Conc: 8\$ 0.856 ppbv
RT: 5.590 min Scan# 236
Delta R.T. -0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

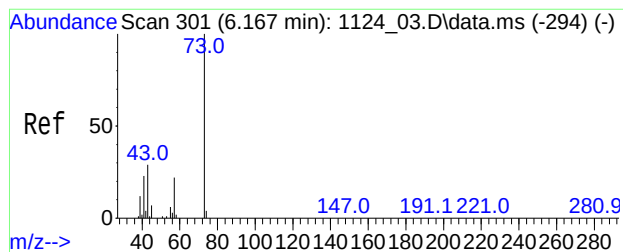
Tgt Ion	Ratio	Lower	Upper
45	100		
43	21.4	14.2	21.2#
59	4.8	3.8	5.6



#16
1,1-Dichloroethene
Conc: 8\$ Below Cal
RT: 6.025 min Scan# 308
Delta R.T. 0.018 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

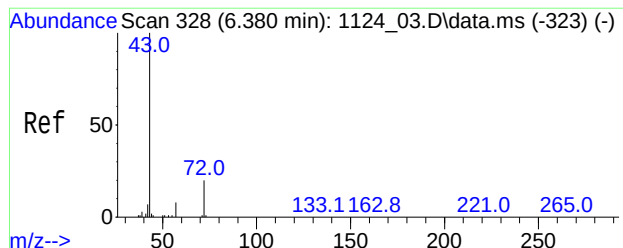
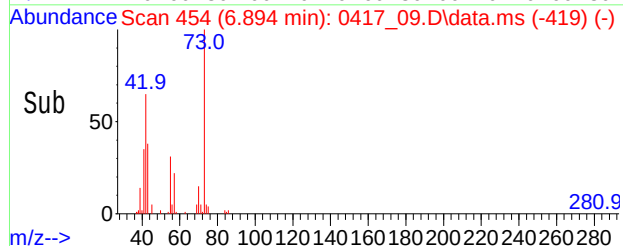
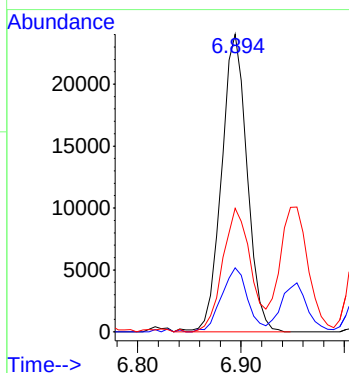
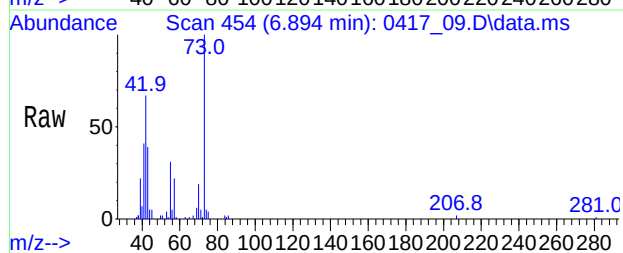
Tgt Ion	Ratio	Lower	Upper
61	100		
96	1.6	55.0	82.4#
98	0.0	35.6	53.4#





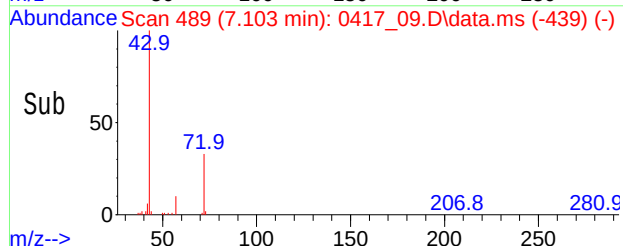
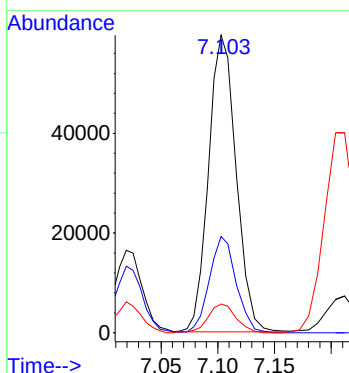
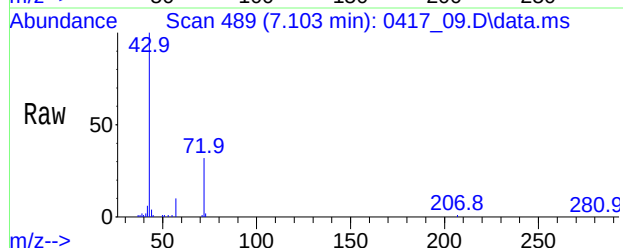
#24
Methyl tert-butyl ether(MTBE)
Conc: 8\$ 0.450 ppbv
RT: 6.894 min Scan# 454
Delta R.T. 0.006 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

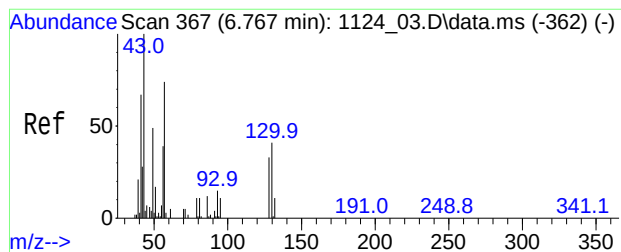
Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.5	26.3
41	45.8	15.3	22.9#



#26
Methyl Ethyl Ketone
Conc: 8\$ 1.767 ppbv
RT: 7.103 min Scan# 489
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

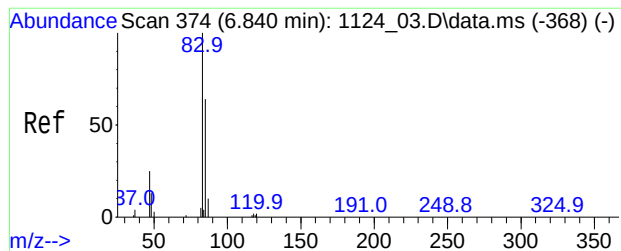
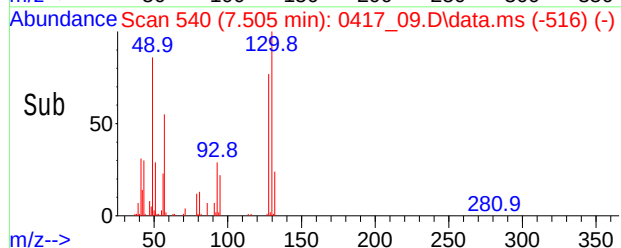
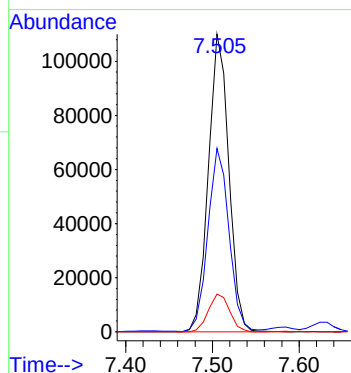
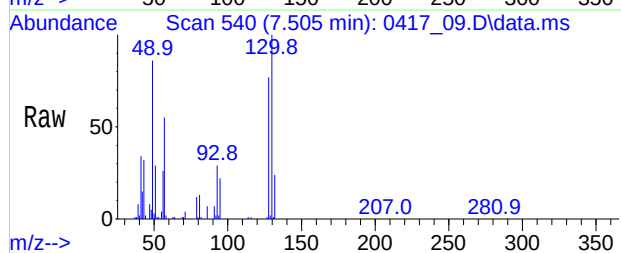
Tgt Ion	Ratio	Lower	Upper
43	100		
72	31.4	23.4	35.0
57	9.7	7.2	10.8





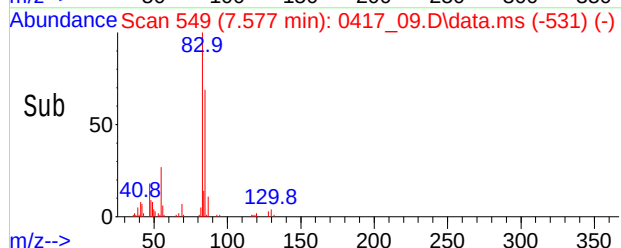
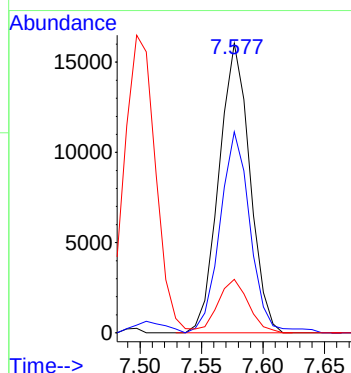
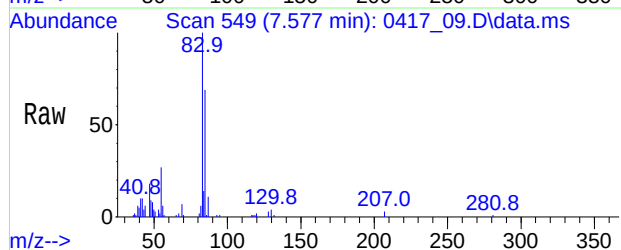
#28
Hexane
Conc: 8\$ 3.569 ppbv
RT: 7.505 min Scan# 540
Delta R.T. -0.008 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

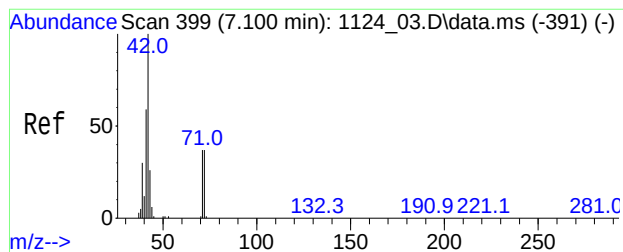
Tgt Ion	Ratio	Lower	Upper
57	100		
41	64.0	51.7	77.5
86	13.2	10.3	15.5



#29
Chloroform
Conc: 8\$ 0.385 ppbv
RT: 7.577 min Scan# 549
Delta R.T. -0.008 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

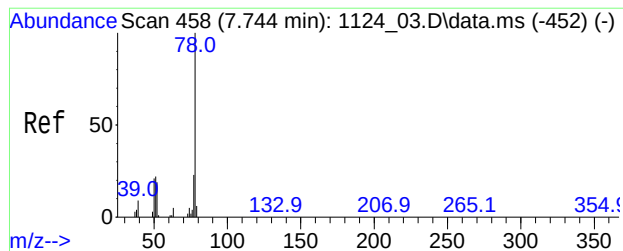
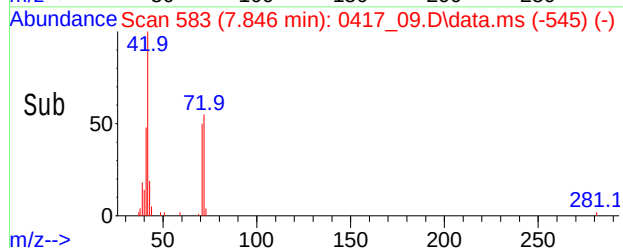
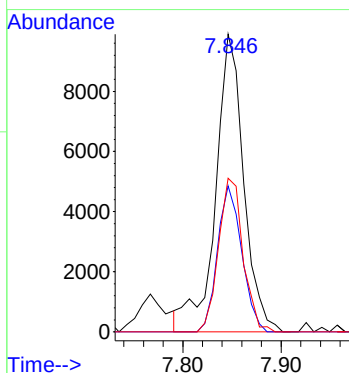
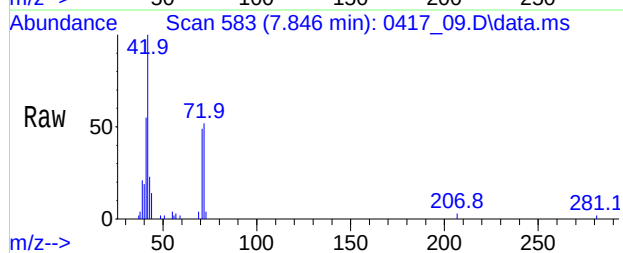
Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.1	45.7	85.7
47	18.2	0.0	37.8





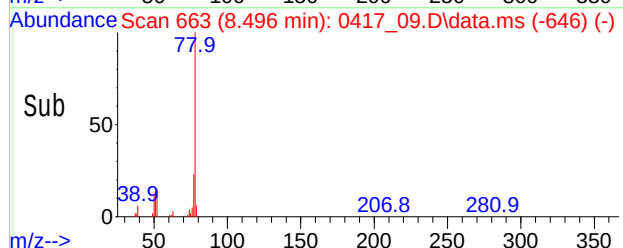
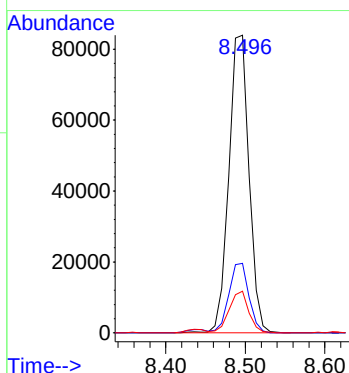
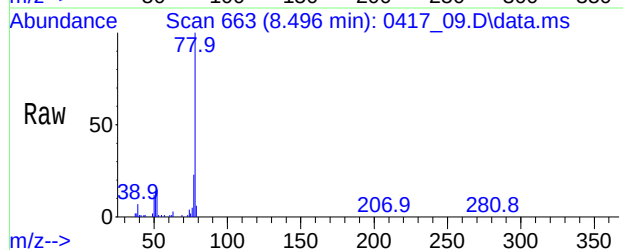
#31
Tetrahydrofuran
Conc: 8\$ 0.594 ppbv
RT: 7.846 min Scan# 583
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

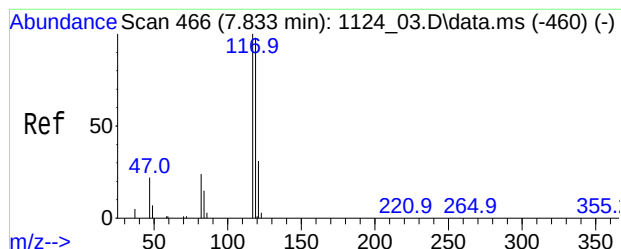
Tgt Ion	Ratio	Resp	Lower	Upper
42	100	19735		
71	42.1	38.6	58.0	
72	44.8	39.0	58.4	



#34
Benzene
Conc: 8\$ 1.299 ppbv
RT: 8.496 min Scan# 663
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

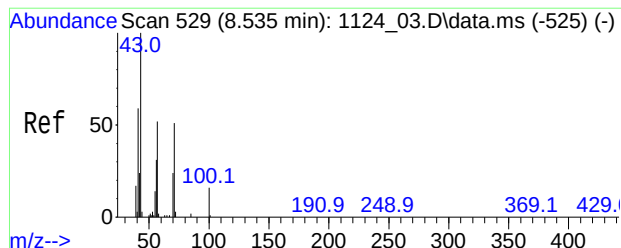
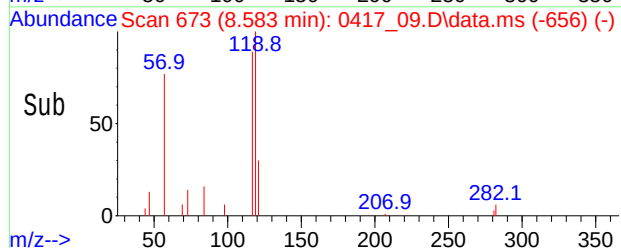
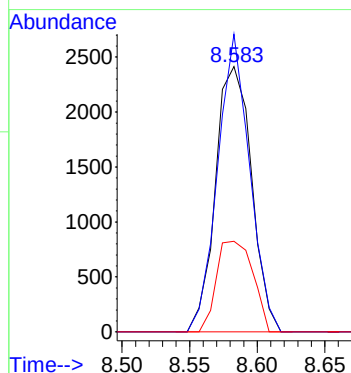
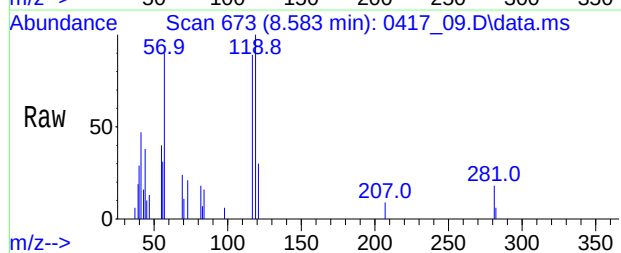
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	148009		
77	23.2	18.6	27.8	
51	13.6	11.0	16.4	





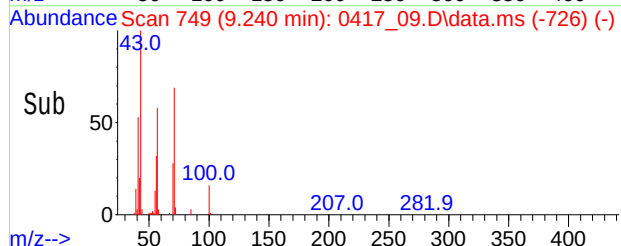
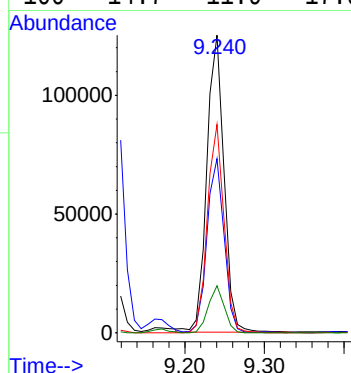
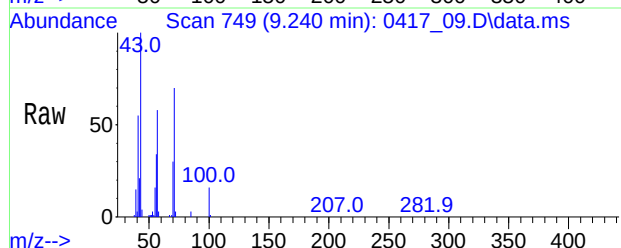
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.583 min Scan# 673
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

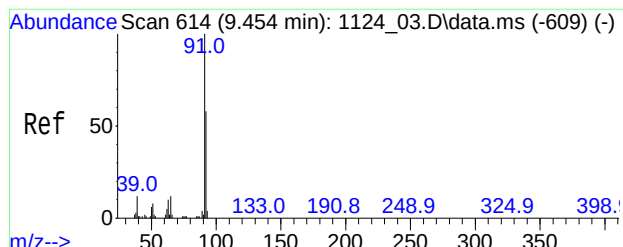
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4481		
119	99.3	77.6	117.6	
121	34.5	11.5	51.5	



#44
Heptane
Conc: 8\$ 3.300 ppbv
RT: 9.240 min Scan# 749
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

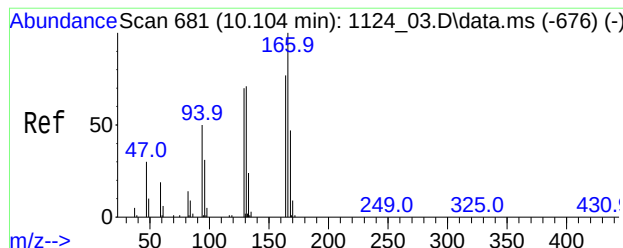
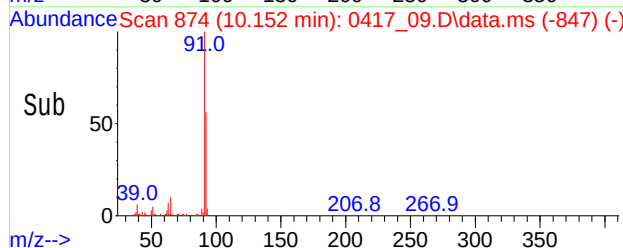
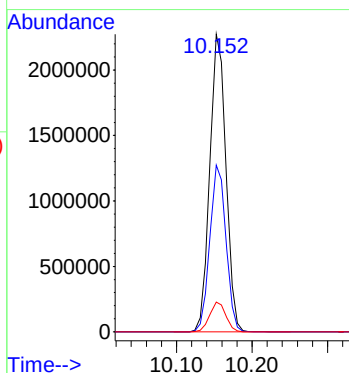
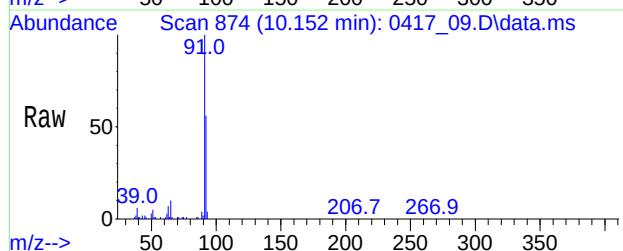
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	187902		
57	57.5	46.6	70.0	
71	67.9	53.2	79.8	
100	14.7	11.9	17.9	





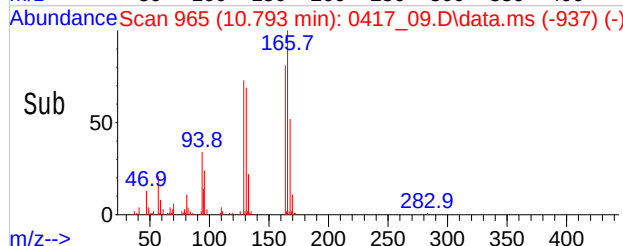
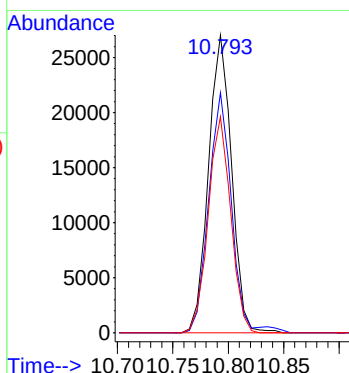
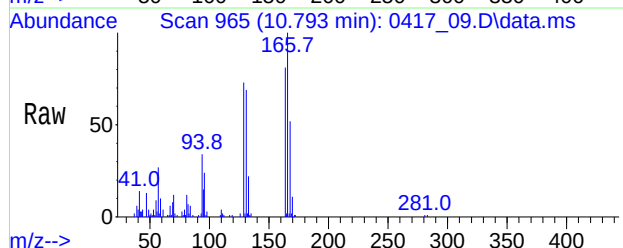
#49
Toluene
Conc: 8\$ 22.658 ppbv
RT: 10.152 min Scan# 874
Delta R.T. -0.007 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

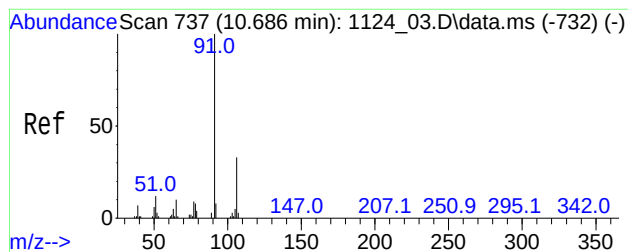
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.9	44.7	67.1
65	10.0	8.1	12.1



#53
Tetrachloroethene
Conc: 8\$ 0.469 ppbv
RT: 10.793 min Scan# 965
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

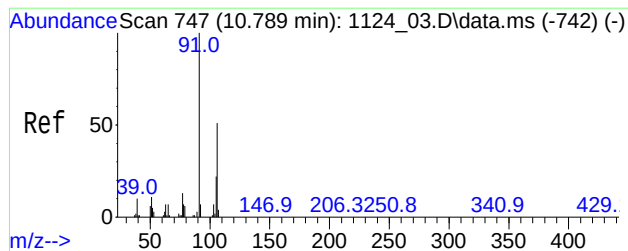
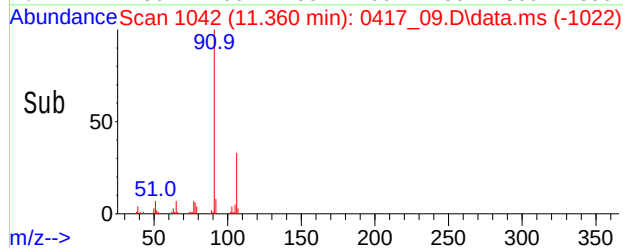
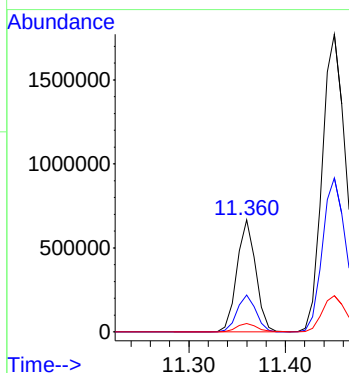
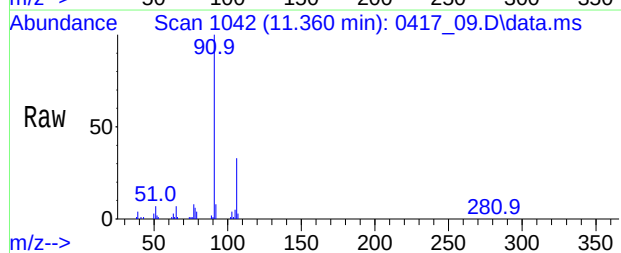
Tgt Ion	Ratio	Lower	Upper
166	100		
164	80.0	62.5	93.7
129	70.5	57.4	86.2





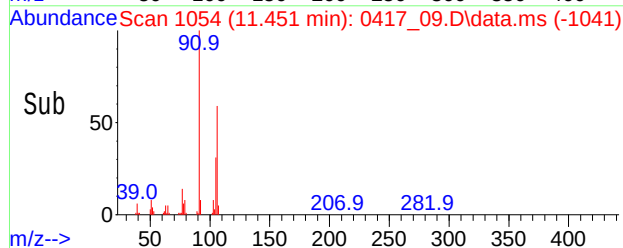
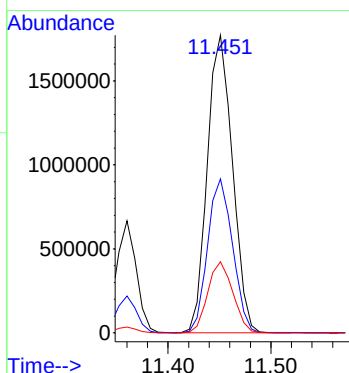
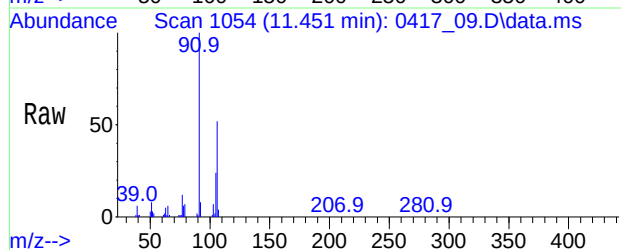
#57
Ethylbenzene
Conc: 8\$ 5.104 ppbv
RT: 11.360 min Scan# 1042
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

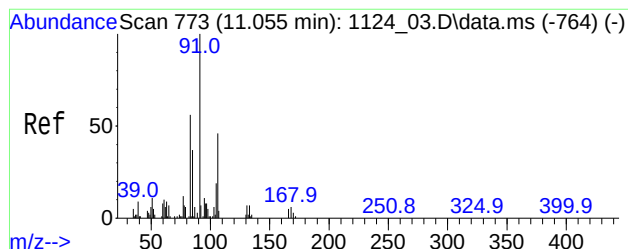
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	900936		
106	33.0		13.4	53.4
77	8.4		0.0	27.9



#58
m,p-Xylene
Conc: 8\$ 22.545 ppbv
RT: 11.451 min Scan# 1054
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

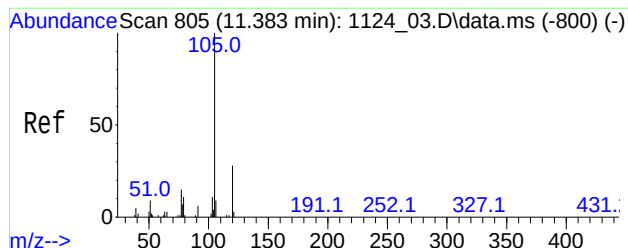
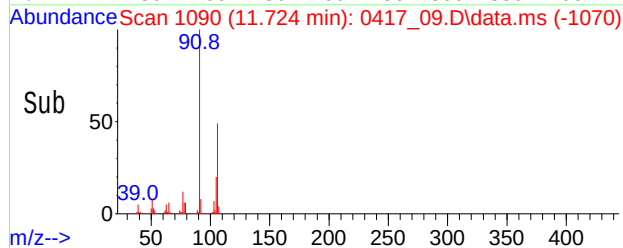
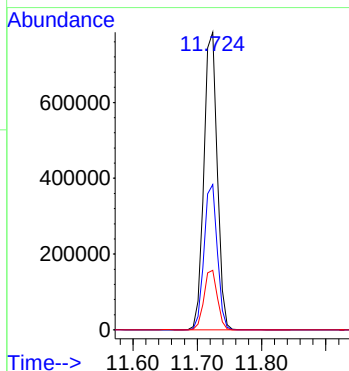
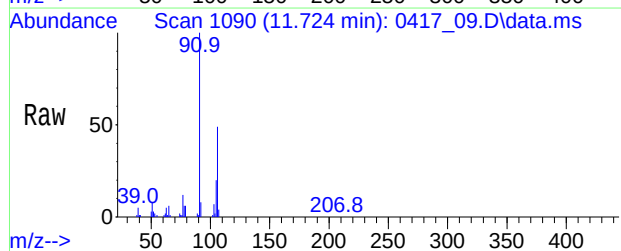
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	3021480		
106	51.5		40.6	61.0
105	23.8		19.3	28.9





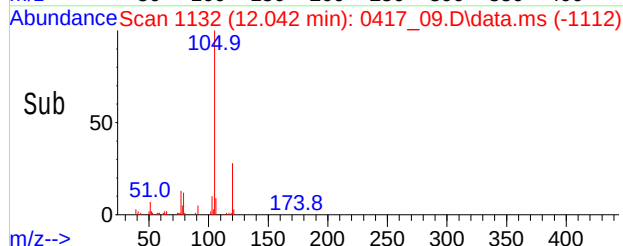
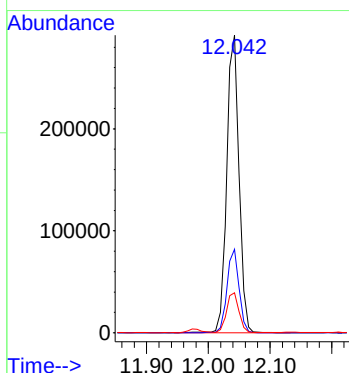
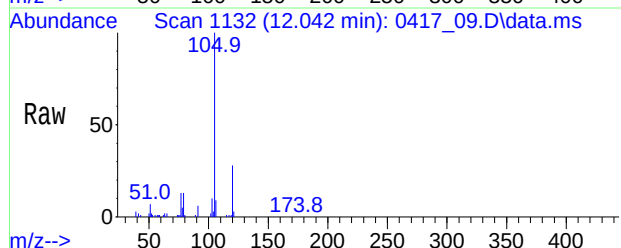
#62
o-Xylene
Conc: 8\$ 8.125 ppbv
RT: 11.724 min Scan# 1090
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

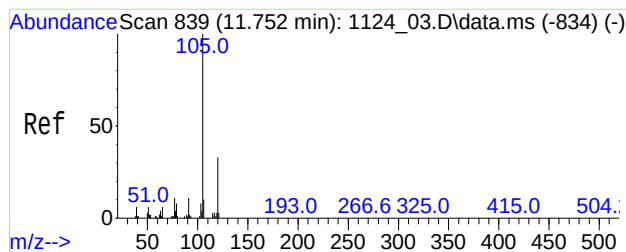
Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.6	38.9	58.3
105	20.1	16.3	24.5



#65
Isopropylbenzene
Conc: 8\$ 2.121 ppbv
RT: 12.042 min Scan# 1132
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

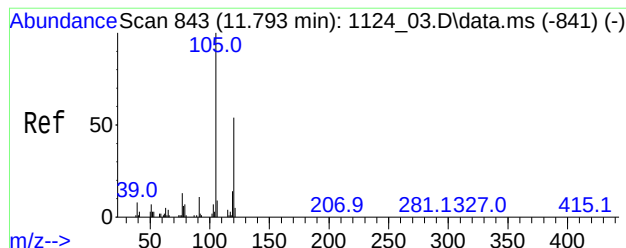
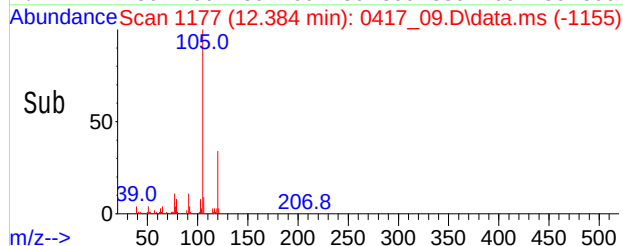
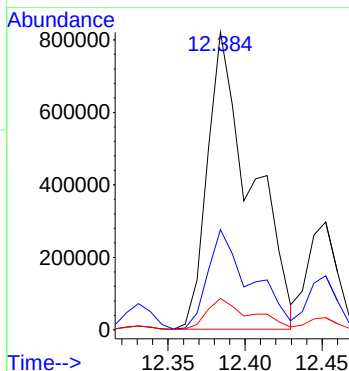
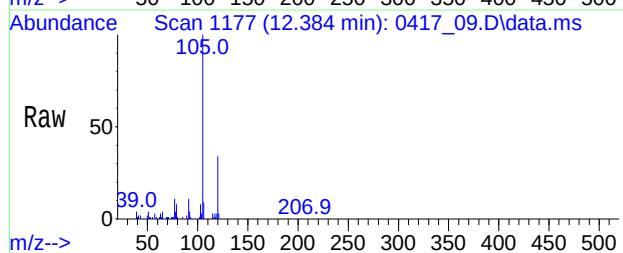
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.5	22.1	33.1
77	13.6	11.0	16.6





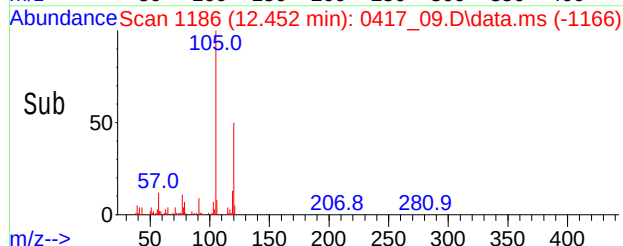
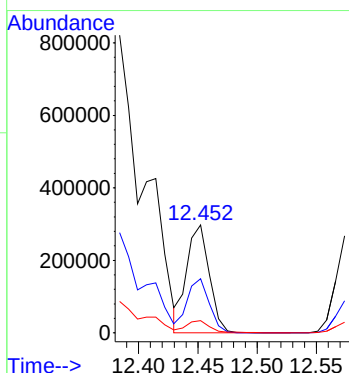
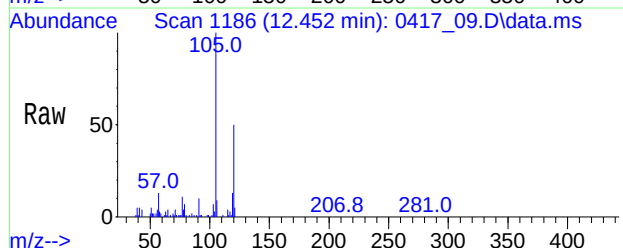
#67
4-Ethyltoluene
Conc: 8\$ 8.041 ppbv
RT: 12.384 min Scan# 1177
Delta R.T. -0.030 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

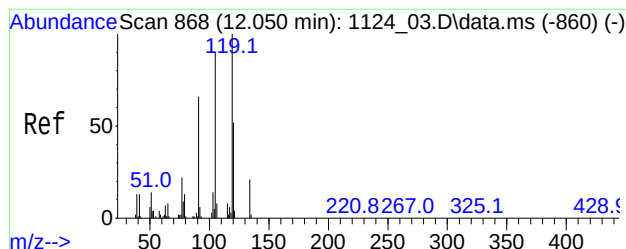
Tgt Ion	Ratio	Lower	Upper
105	100		
120	32.7	25.6	38.4
77	10.5	8.1	12.1



#68
1,3,5-Trimethylbenzene
Conc: 8\$ 2.417 ppbv
RT: 12.452 min Scan# 1186
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

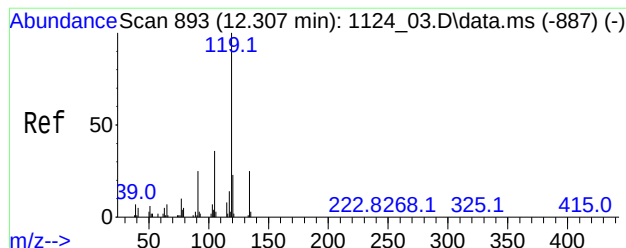
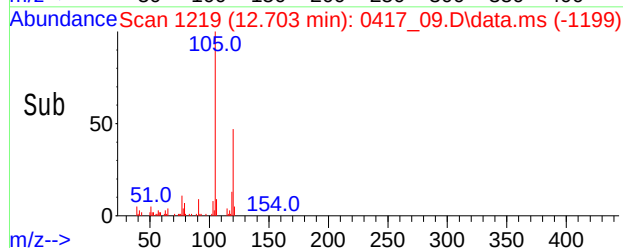
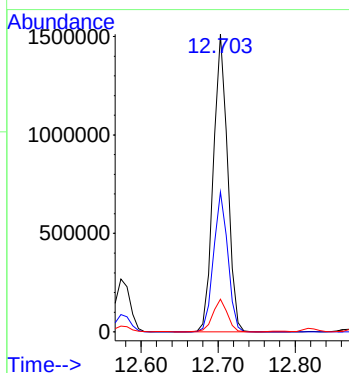
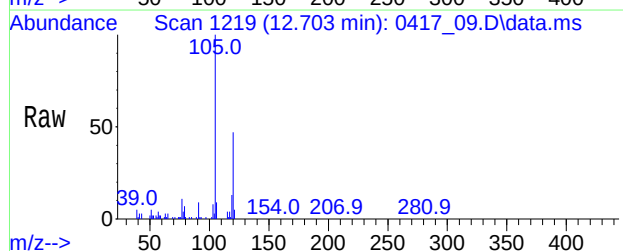
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.5	39.3	58.9
77	11.7	8.9	13.3





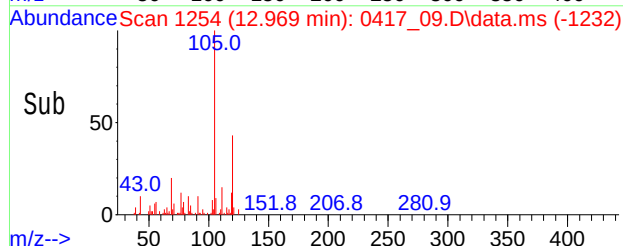
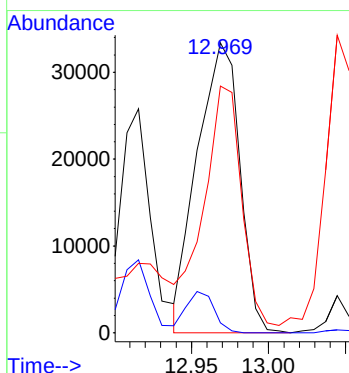
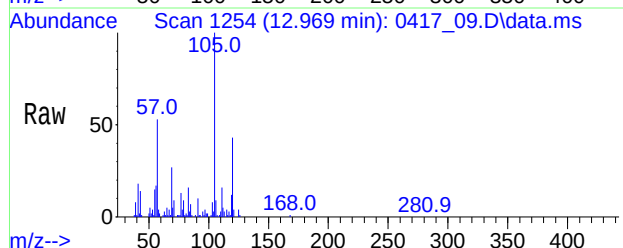
#69
1,2,4-Trimethylbenzene
Conc: 8\$ 11.615 ppbv
RT: 12.703 min Scan# 1219
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

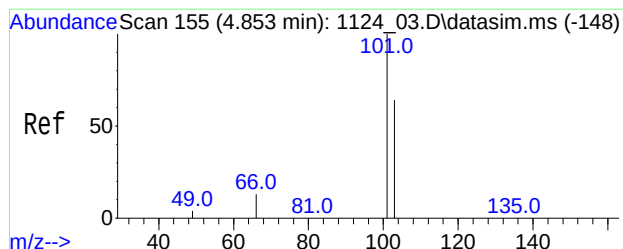
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.8	44.2	66.4
77	11.2	16.4	24.6#



#75
4-Isopropyltoluene
Conc: 8\$ 0.288 ppbv
RT: 12.969 min Scan# 1254
Delta R.T. 0.015 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

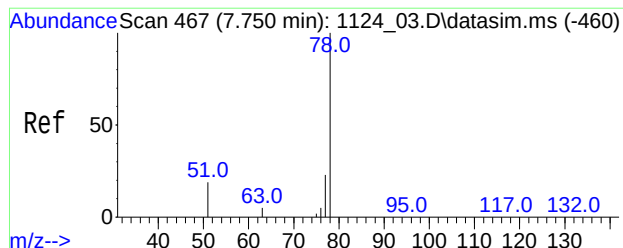
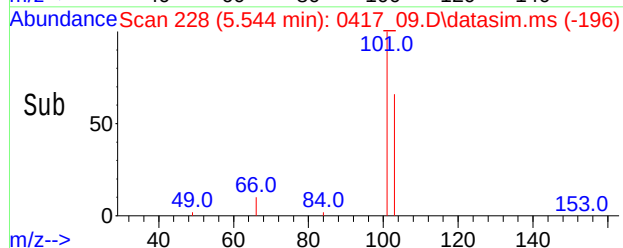
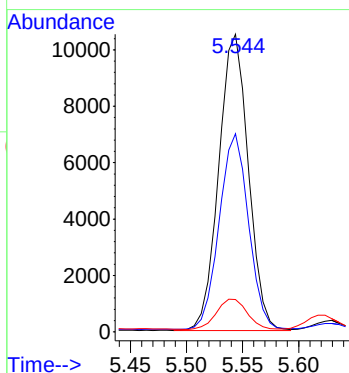
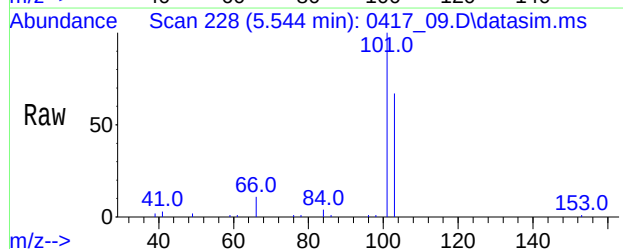
Tgt Ion	Ratio	Lower	Upper
119	100		
134	9.4	20.3	30.5#
91	72.5	21.4	32.0#





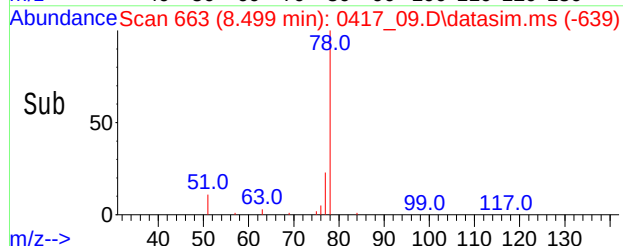
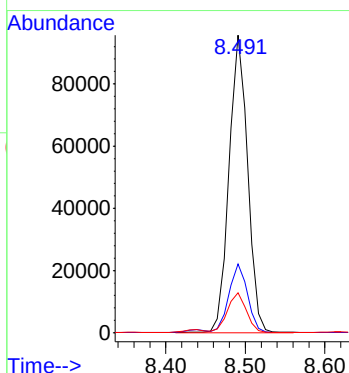
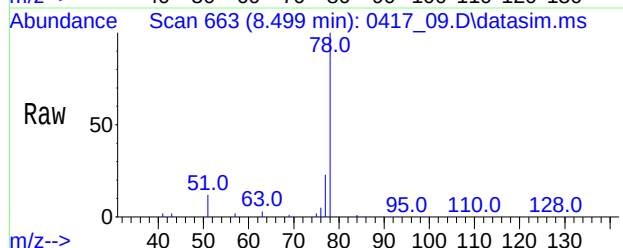
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.247 ppbv
RT: 5.544 min Scan# 228
Delta R.T. -0.006 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

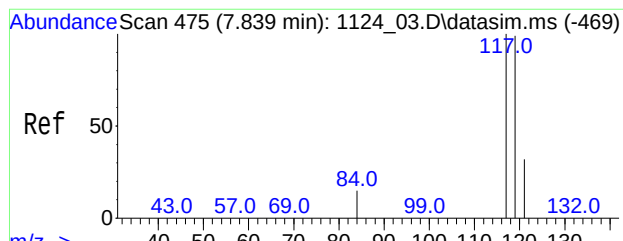
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19252		
103	65.4	52.1	78.1	
66	10.6	10.8	10.8#	



#88
Benzene(sim)
Conc: 8\$ 1.146 ppbv
RT: 8.496 min Scan# 663
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

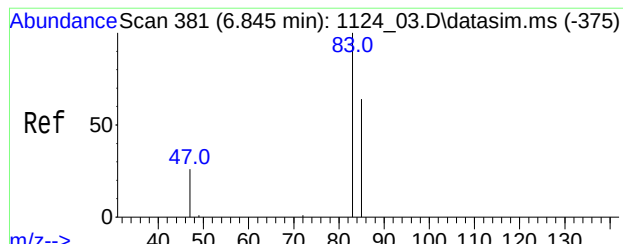
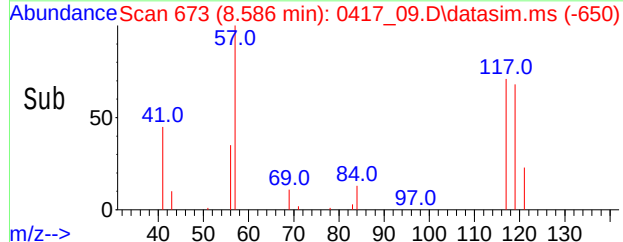
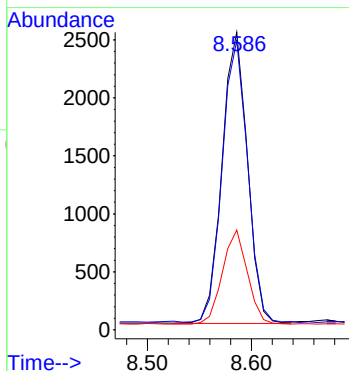
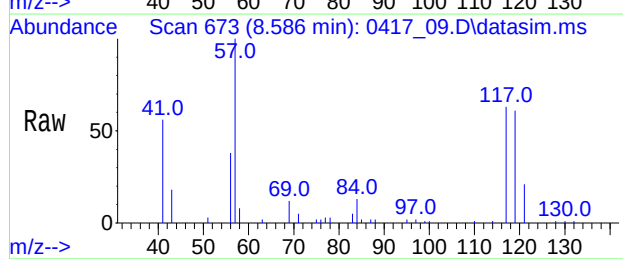
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	148009		
77	23.2	18.6	27.8	
51	13.6	11.0	16.4	





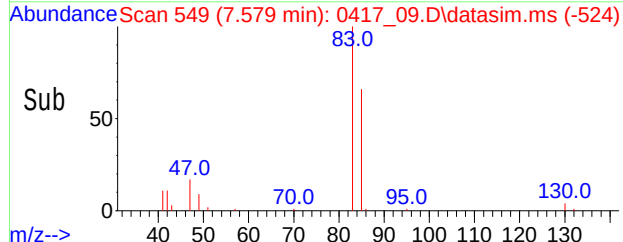
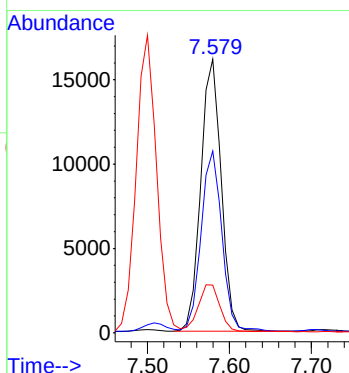
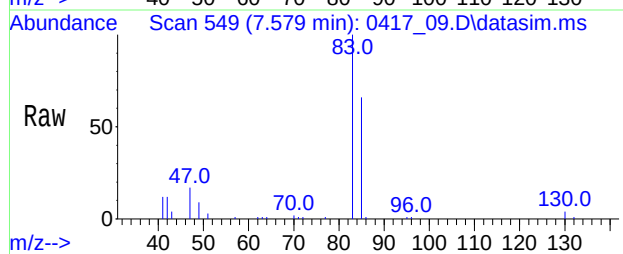
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.057 ppbv
RT: 8.586 min Scan# 673
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

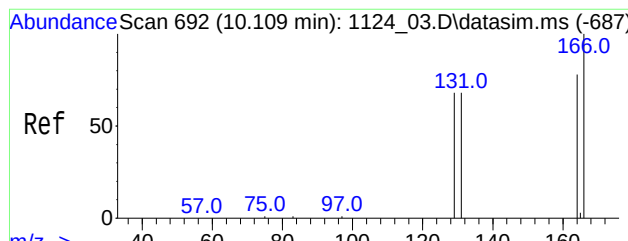
Tgt Ion:	117	Resp:	4256
Ion Ratio	Lower	Upper	
117	100		
119	96.7	77.6	116.4
121	31.6	25.0	37.6



#95
Chloroform(sim)
Conc: 8\$ 0.351 ppbv
RT: 7.579 min Scan# 549
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

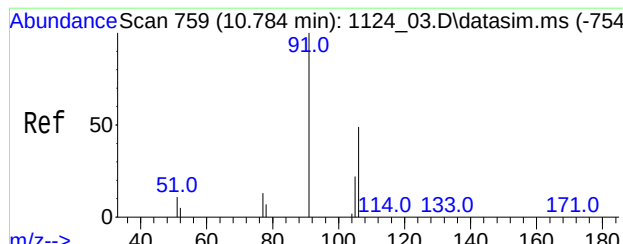
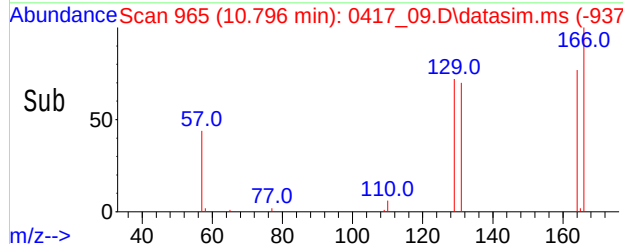
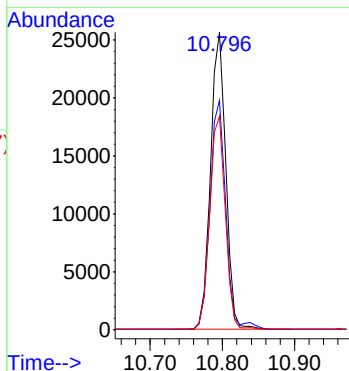
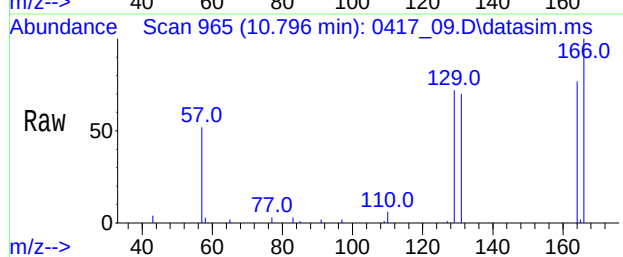
Tgt Ion:	83	Resp:	27942
Ion Ratio	Lower	Upper	
83	100		
85	67.4	52.2	78.4
47	18.1	14.6	21.8





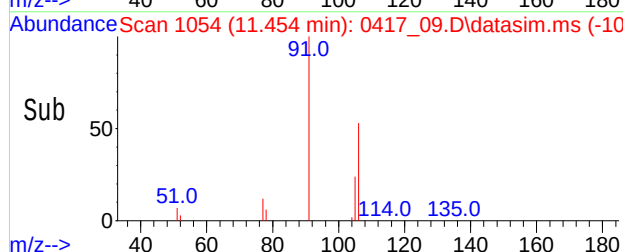
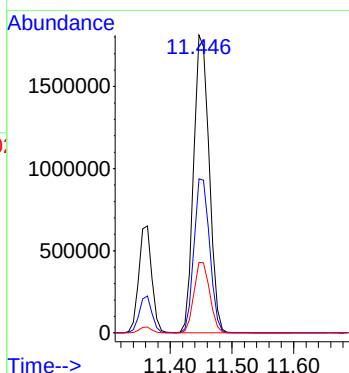
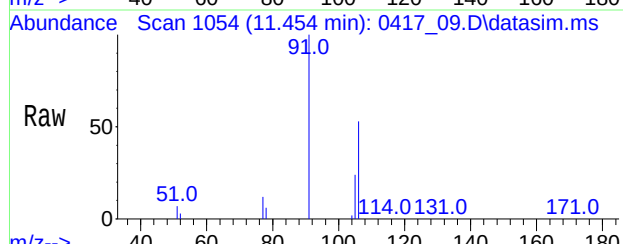
#105
Tetrachloroethene(sim)
Conc: 8\$ 0.444 ppbv
RT: 10.796 min Scan# 965
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

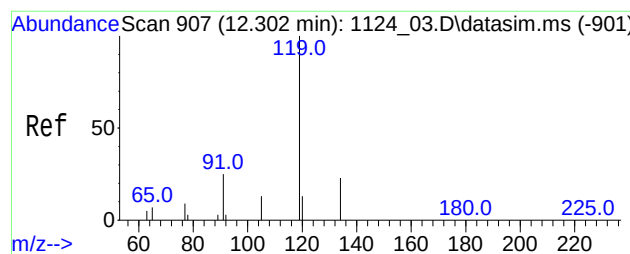
Tgt Ion	Ratio	Lower	Upper
166	100		
164	79.8	58.0	98.0
129	73.0	52.6	92.6



#108
m,p-Xylene(sim)
Conc: 8\$ 21.293 ppbv
RT: 11.451 min Scan# 1054
Delta R.T. 0.000 min
Lab File: 0417_09.D
Acq: 17 Apr 2023 4:32 pm

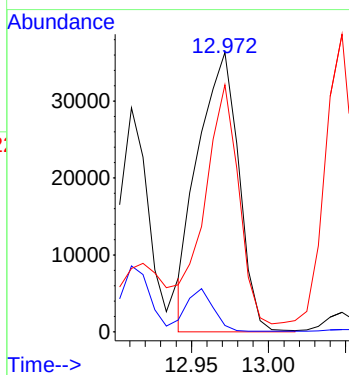
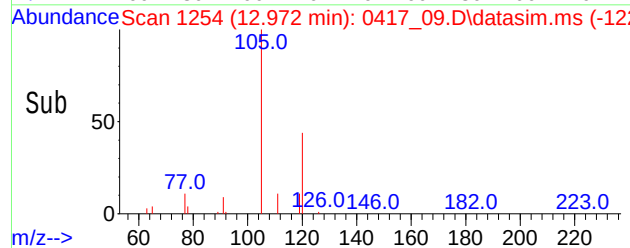
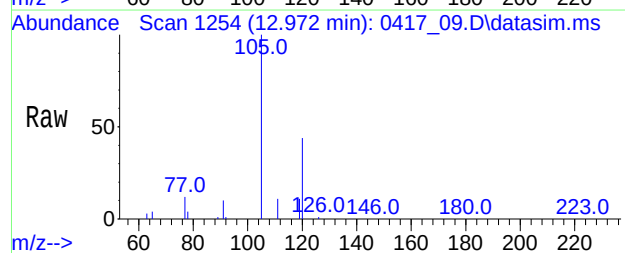
Tgt Ion	Ratio	Lower	Upper
91	100		
106	51.4	45.7	55.9
105	23.8	19.3	28.9





#116
 4-Isopropyltoluene(sim)
 Conc: 8\$ 0.265 ppbv
 RT: 12.969 min Scan# 1254
 Delta R.T. 0.015 min
 Lab File: 0417_09.D
 Acq: 17 Apr 2023 4:32 pm

Tgt Ion:	119	Resp:	64220
Ion Ratio	Lower	Upper	
119	100		
134	9.4	20.3	30.5#
91	72.5	21.4	32.0#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN84181 Lab Sample ID: CN84179 BL

Canister: BL Lab File ID: 0417_05.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 04/14/23

Purge Volume 200 (cc) Date Analyzed: 04/17/23

Matrix: AIR Dilution Factor: 1

CN84179 BLANK

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.580	U	0.580	0.580	r
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
74-87-3	Chloromethane	0.480	U	0.480	0.480	r
106-99-0	1,3-Butadiene	0.450	U	0.450	0.450	r
75-00-3	Chloroethane	0.380	U	0.380	0.380	r
64-17-5	Ethanol	0.530	U	0.530	0.530	r
67-64-1	Acetone	0.420	U	0.420	0.420	r
67-63-0	Isopropylalcohol	0.410	U	0.410	0.410	r
107-13-1	Acrylonitrile	0.460	U	0.460	0.460	r
75-09-2	Methylene Chloride	0.860	U	0.860	0.860	r
75-15-0	Carbon Disulfide	0.320	U	0.320	0.320	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.280	U	0.280	0.280	r
78-93-3	Methyl Ethyl Ketone	0.340	U	0.340	0.340	r
110-54-3	Hexane	0.280	U	0.280	0.280	r
141-78-6	Ethyl acetate	0.280	U	0.280	0.280	r
109-99-9	Tetrahydrofuran	0.340	U	0.340	0.340	r
110-82-7	Cyclohexane	0.290	U	0.290	0.290	r
142-82-5	Heptane	0.240	U	0.240	0.240	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.240	U	0.240	0.240	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.270	U	0.270	0.270	r
591-78-6	2-Hexanone(MBK)	0.240	U	0.240	0.240	r
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	0.150	r
108-90-7	Chlorobenzene	0.220	U	0.220	0.220	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.230	U	0.230	0.230	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.200	U	0.200	0.200	r
622-96-8	4-Ethyltoluene	0.200	U	0.200	0.200	r
108-67-8	1,3,5-Trimethylbenzene	0.200	U	0.200	0.200	r
95-63-6	1,2,4-Trimethylbenzene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.140	U	0.140	0.140	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.260	U	0.260	0.260	r
75-69-4	Trichlorofluoromethane(sim)	0.180	U	0.180	0.180	r
107-06-2	1,2-Dichloroethane(sim)	0.250	U	0.250	0.250	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84179 BL</u>
Canister:	<u>BL</u>	Lab File ID:	<u>0417_05.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/17/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
71-55-6	1,1,1-Trichloroethane(sim)	0.180	U	0.180	0.180	r
71-43-2	Benzene(sim)	0.310	U	0.310	0.310	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
76-13-1	Trichlorotrifluoroethane(sim)	0.130	U	0.130	0.130	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.250	U	0.250	0.250	r
75-34-3	1,1-Dichloroethane(sim)	0.250	U	0.250	0.250	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
78-87-5	1,2-dichloropropane(sim)	0.220	U	0.220	0.220	r
75-27-4	Bromodichloromethane(sim)	0.150	U	0.150	0.150	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.280	U	0.280	0.280	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.180	U	0.180	0.180	r
124-48-1	Dibromochloromethane(sim)	0.120	U	0.120	0.120	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.150	U	0.150	0.150	r
100-44-7	Benzyl chloride(sim)	0.190	U	0.190	0.190	r
541-73-1	1,3-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
106-46-7	1,4-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
135-98-8	sec-Butylbenzene(sim)	0.180	U	0.180	0.180	r
99-87-6	4-Isopropyltoluene(sim)	0.180	U	0.180	0.180	r
95-50-1	1,2-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
104-51-8	n-Butylbenzene(sim)	0.180	U	0.180	0.180	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.130	U	0.130	0.130	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_05.D
 Acq On : 17 Apr 2023 2:03 pm
 Operator :
 Client ID : CN84179 BLANK
 Lab ID : CN84179 BLANK
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Apr 18 10:25:53 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.505	130	381597	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.669	114	1390505	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	645617	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	361907	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.669	114	1390292	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	645617	10.000	ng	0.00

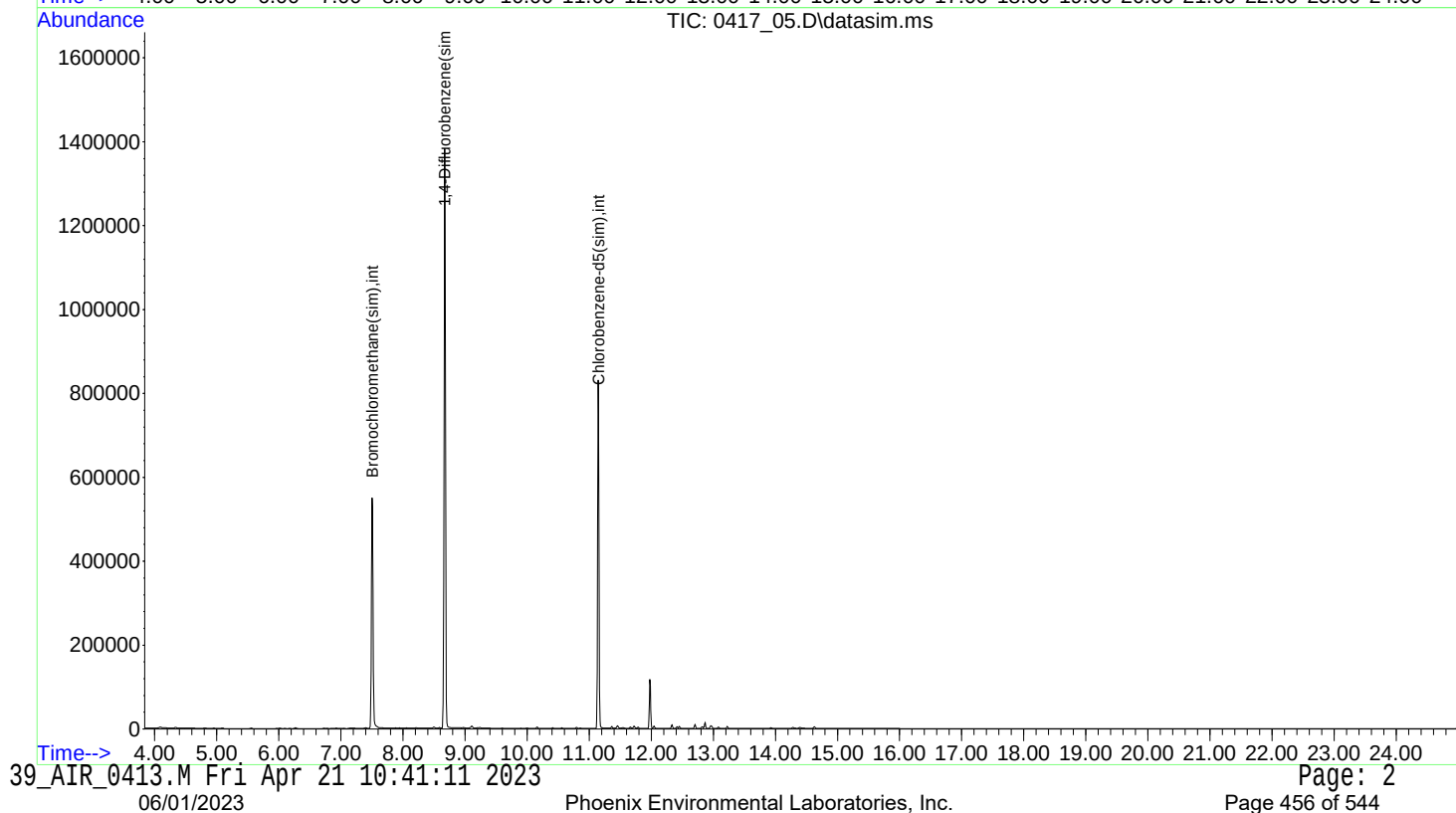
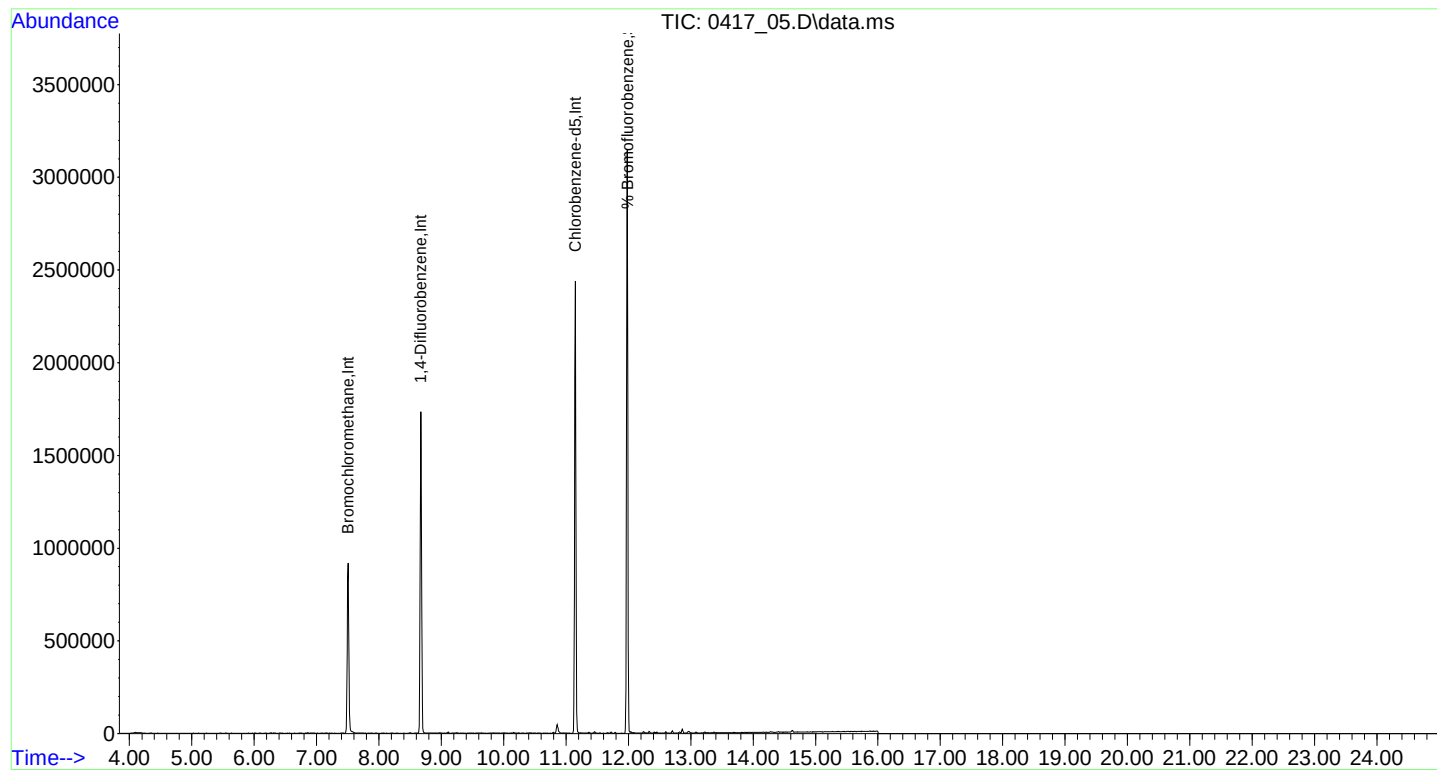
System Monitoring Compounds						
63) % Bromofluorobenzene	11.982	95	919879	10.228	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.30%

Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2023\CHEM39\04APR\17\
Data File : 0417_05.D
Acq On : 17 Apr 2023 2:03 pm
Operator :
Client ID : CN84179 BLANK
Lab ID : CN84179 BLANK
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Apr 18 10:25:53 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Apr 14 11:21:21 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84179 DUP</u>
Canister:	<u>12858</u>	Lab File ID:	<u>0417_10.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/17/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	3.55		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.473		0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	3.47	S	0.531	0.531	r
67-64-1	Acetone	15.7	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.246		0.178	0.178	r
67-63-0	Isopropylalcohol	0.826	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.446		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	1.68		0.339	0.339	r
110-54-3	Hexane	3.54	S	0.284	0.284	r
67-66-3	Chloroform	0.389		0.205	0.205	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.599		0.339	0.339	r
71-43-2	Benzene	1.30		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	3.27		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.221	U	0.221	0.221	r
108-88-3	Toluene	22.5		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.468		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	5.08		0.230	0.230	r
179601-23-1	m,p-Xylene	22.2		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	8.00		0.230	0.230	r
98-82-8	Isopropylbenzene	2.09		0.204	0.204	r
622-96-8	4-Ethyltoluene	7.88		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	2.35		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	11.4		0.204	0.204	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84179 DUP</u>
Canister:	<u>12858</u>	Lab File ID:	<u>0417_10.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/17/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
99-87-6	4-Isopropyltoluene	0.291		0.182	0.182	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
56-23-5	Carbon Tetrachloride(sim)	0.057		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.221	U	0.221	0.221	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.118	U	0.118	0.118	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM39\04APR\17\
 Data File : 0417_10.D
 Acq On : 17 Apr 2023 5:14 pm
 Operator :
 Client ID : 84179 0.5x;2x dup
 Lab ID : CN84179 DUP
 ALS Vial : 40 Sample Multiplier: 1

Quant Time: Apr 18 10:29:19 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Apr 14 11:21:21 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.505	130	380844	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.669	114	1396824	10.000	ng	0.00
54) Chlorobenzene-d5	11.148	82	651505	10.000	ng	0.00
81) Bromochloromethane(sim)	7.508	130	366331	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.669	114	1396824	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.148	82	651505	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.974	95	916800	10.102	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.00%

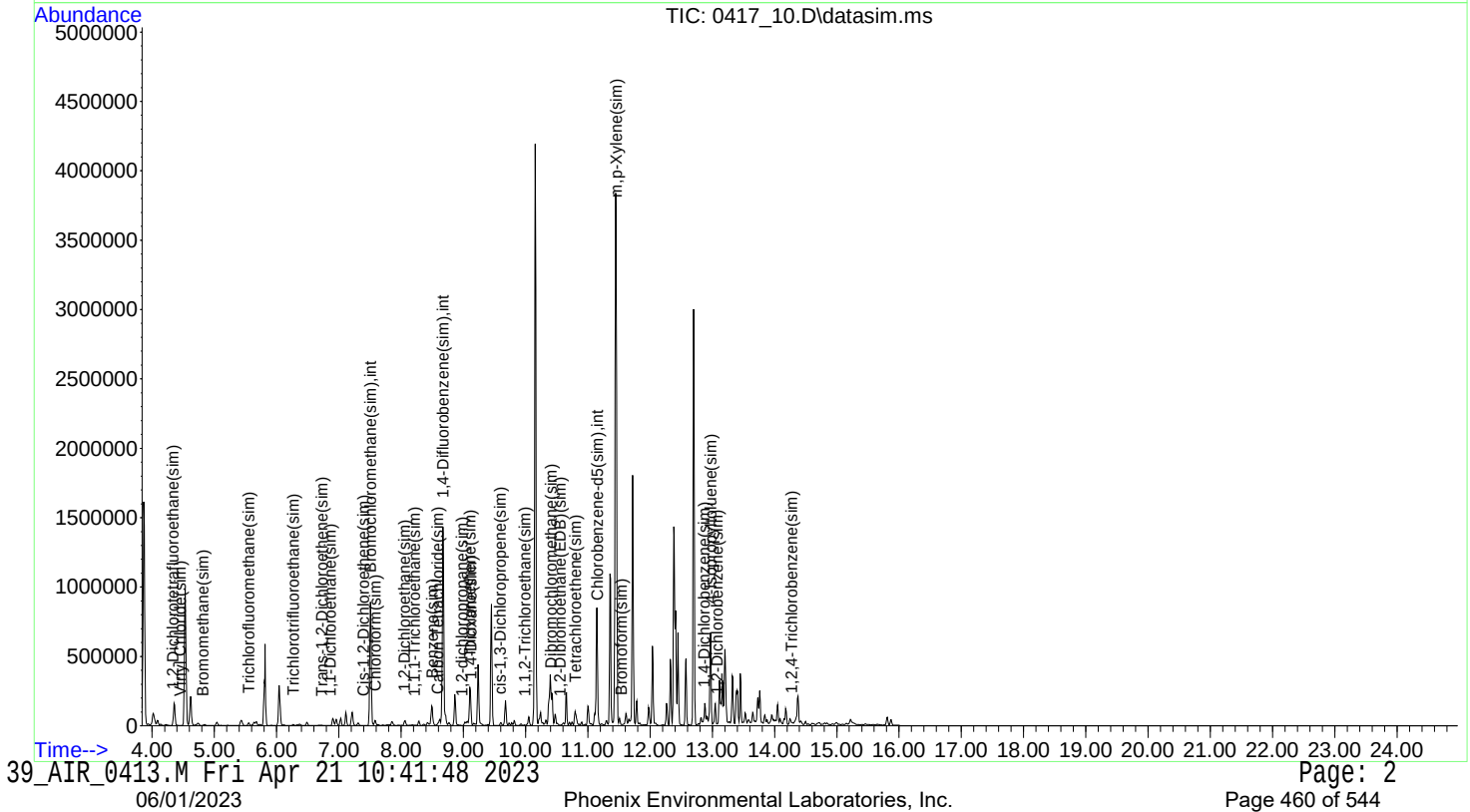
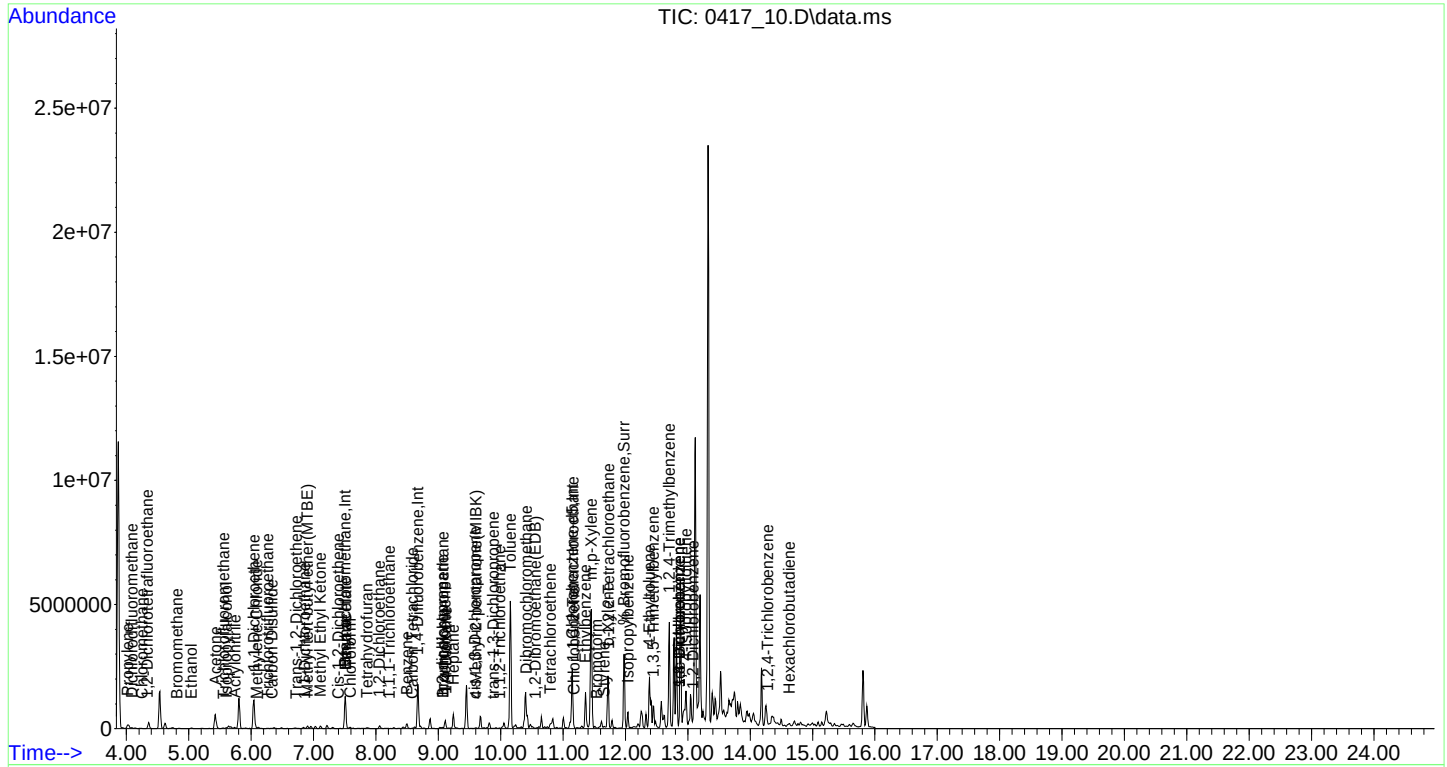
Target Compounds						Qvalue
2) Propylene	4.016	41	74991	3.549	ppbv	94
3) Dichlorodifluoromethane	4.089	85	37704	0.473	ppbv	99
11) Ethanol	5.039	45	25429	3.472	ppbv	94
12) Acetone	5.424	43	605505	15.727	ppbv	95
13) Trichlorofluoromethane	5.553	101	19440	0.246	ppbv	98
14) Isopropylalcohol	5.602	45	37600	0.826	ppbv#	93
24) Methyl tert-butyl ethe...	6.900	73	41783	0.446	ppbv#	72
26) Methyl Ethyl Ketone	7.109	43	102773	1.682	ppbv	98
28) Hexane	7.513	57	182354	3.535	ppbv	97
29) Chloroform	7.585	83	29019	0.389	ppbv	97
31) Tetrahydrofuran	7.854	42	20353	0.599	ppbv	92
34) Benzene	8.496	78	150975	1.295	ppbv	99
35) Carbon Tetrachloride	8.583	117	4179	0.053	ppbv	91
44) Heptane	9.240	43	190472	3.273	ppbv	99
49) Toluene	10.153	91	3420333	22.475	ppbv	100
53) Tetrachloroethene	10.793	166	40007	0.468	ppbv	99
57) Ethylbenzene	11.360	91	919707	5.075	ppbv	99
58) m,p-Xylene	11.451	91	3058797	22.228	ppbv	99
62) o-Xylene	11.716	91	1141968	8.001	ppbv	100
65) Isopropylbenzene	12.042	105	408827	2.086	ppbv	100
67) 4-Ethyltoluene	12.384	105	1635153	7.877	ppbv	99
68) 1,3,5-Trimethylbenzene	12.445	105	396396	2.347	ppbv	100
69) 1,2,4-Trimethylbenzene	12.703	105	1958421	11.434	ppbv#	86
75) 4-Isopropyltoluene	12.969	119	66581	0.291	ppbv#	43
85) Trichlorofluoromethane...	5.550	101	19665	0.246	ppbv#	99
88) Benzene(sim)	8.496	78	150975	1.144	ppbv	99
89) Carbon Tetrachloride(sim)	8.586	117	4335	0.057	ppbv	98
95) Chloroform(sim)	7.580	83	28400	0.349	ppbv	97
105) Tetrachloroethene(sim)	10.796	166	38150	0.444	ppbv	99
108) m,p-Xylene(sim)	11.451	91	3065857	20.996	ppbv	99
116) 4-Isopropyltoluene(sim)	12.969	119	66581m	0.267	ppbv#	43

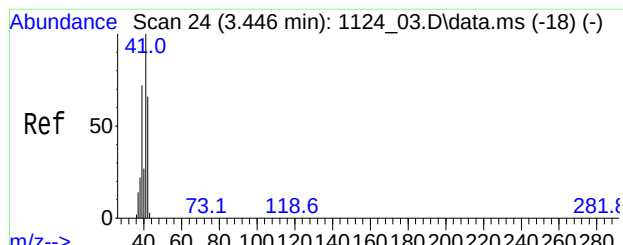
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

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Data File : 0417_10.D
Acq On : 17 Apr 2023 5:14 pm
Operator :
Client ID : 84179 0.5x;2x dup
Lab ID : CN84179 DUP
ALS Vial : 40 Sample Multiplier: 1

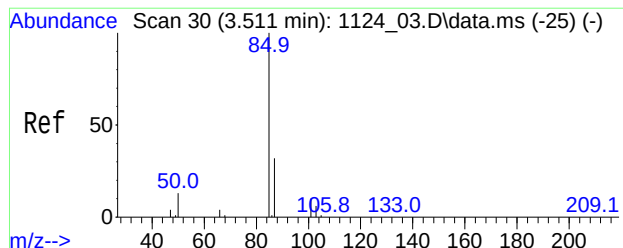
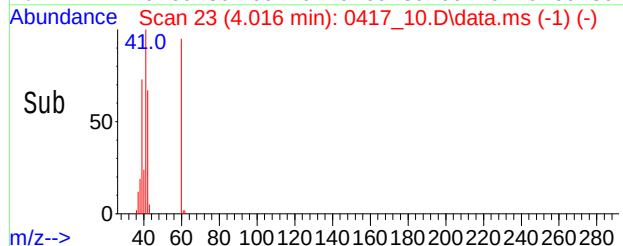
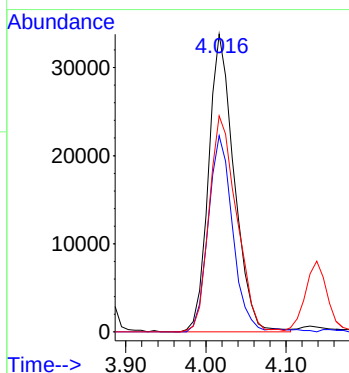
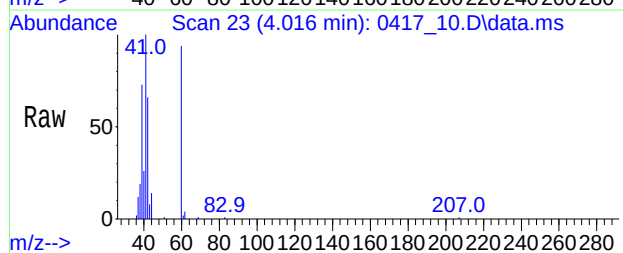
Quant Time: Apr 18 10:29:19 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0413.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Apr 14 11:21:21 2023
Response via : Initial Calibration





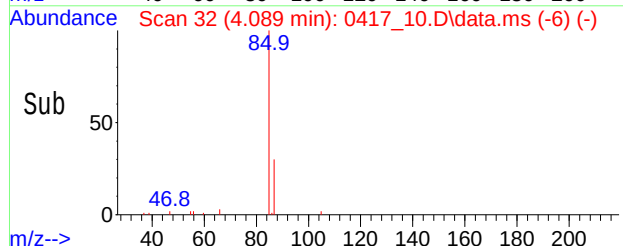
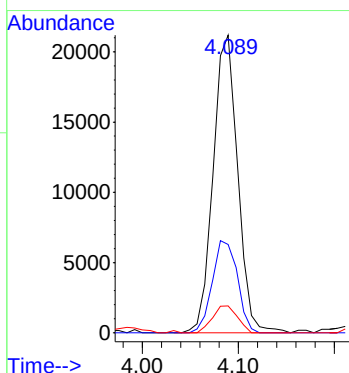
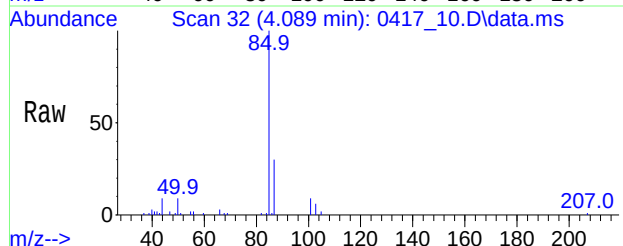
#2
Propylene
Conc: 8\$ 3.549 ppbv
RT: 4.016 min Scan# 23
Delta R.T. 0.008 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

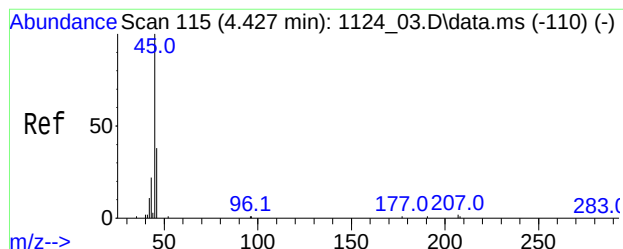
Tgt Ion	Ratio	Resp	Lower	Upper
41	100	74991		
42	62.4	54.3	81.5	
39	77.8	59.0	88.4	



#3
Dichlorodifluoromethane
Conc: 8\$ 0.473 ppbv
RT: 4.089 min Scan# 32
Delta R.T. 0.008 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

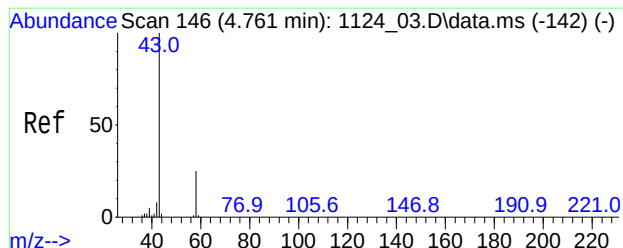
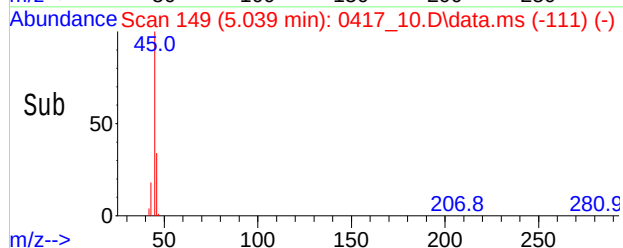
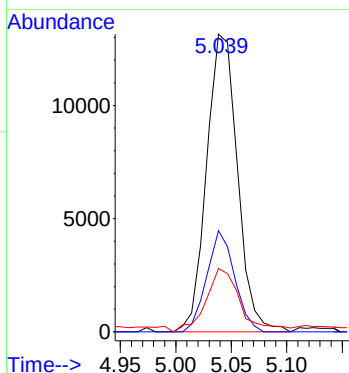
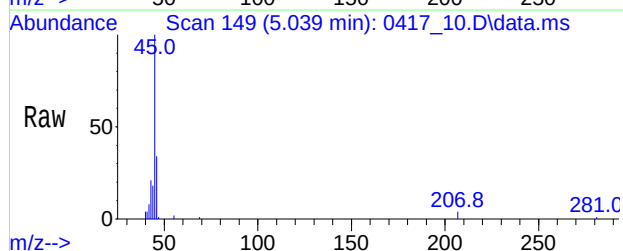
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	37704		
87	31.6	25.9	38.9	
50	9.2	7.4	11.0	





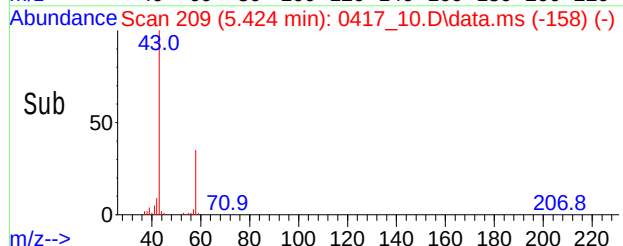
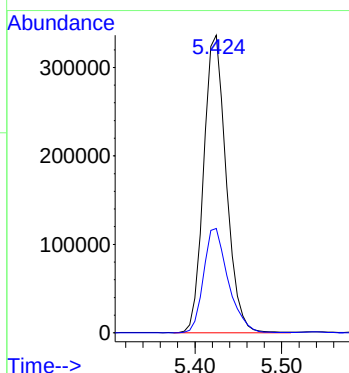
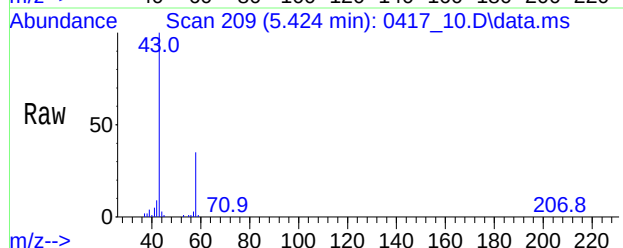
#11
Ethanol
Conc: 8\$ 3.472 ppbv
RT: 5.039 min Scan# 149
Delta R.T. 0.009 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

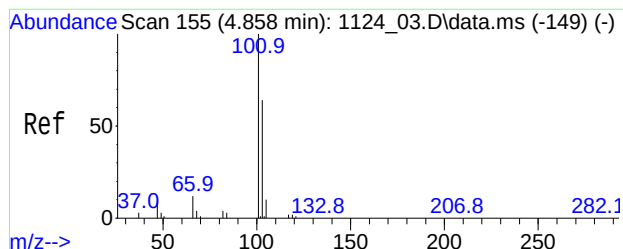
Tgt Ion	Ratio	Lower	Upper
45	100		
46	30.6	27.8	41.6
43	23.7	16.9	25.3



#12
Acetone
Conc: 8\$ 15.727 ppbv
RT: 5.424 min Scan# 209
Delta R.T. 0.012 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

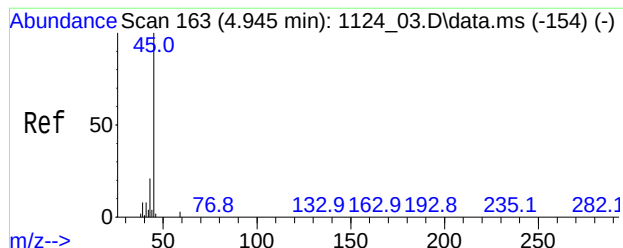
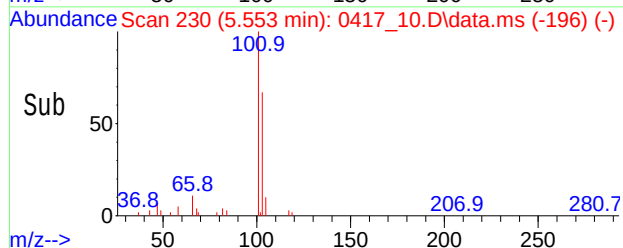
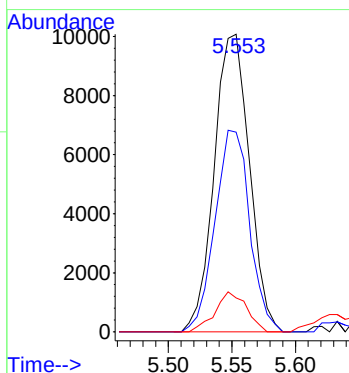
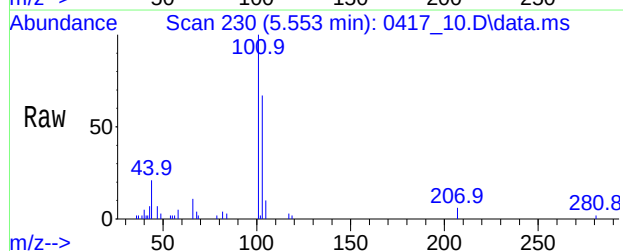
Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.4	28.3	42.5





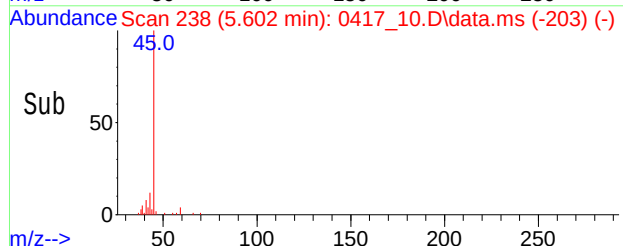
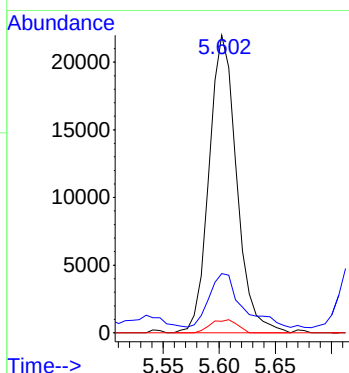
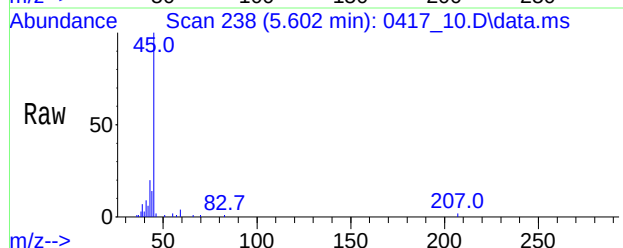
#13
Trichlorofluoromethane
Conc: 8\$ 0.246 ppbv
RT: 5.553 min Scan# 230
Delta R.T. 0.006 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

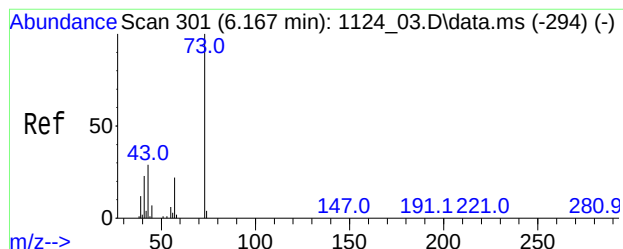
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19440		
103	66.7	52.1	78.1	
66	11.9	8.6	12.8	



#14
Isopropylalcohol
Conc: 8\$ 0.826 ppbv
RT: 5.602 min Scan# 238
Delta R.T. 0.012 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

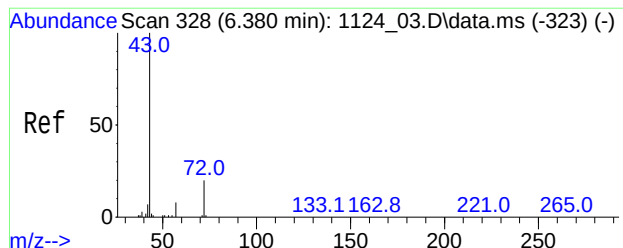
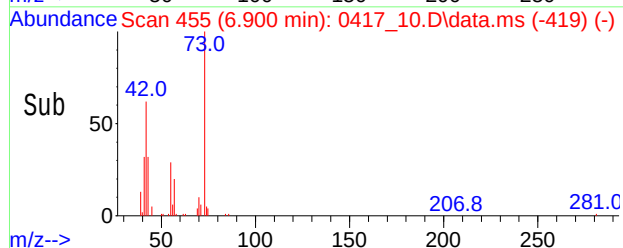
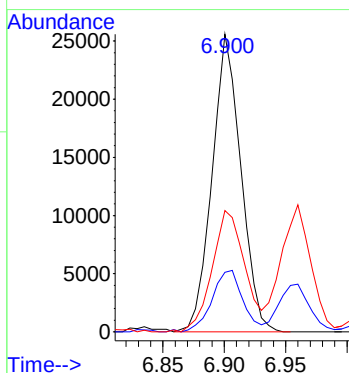
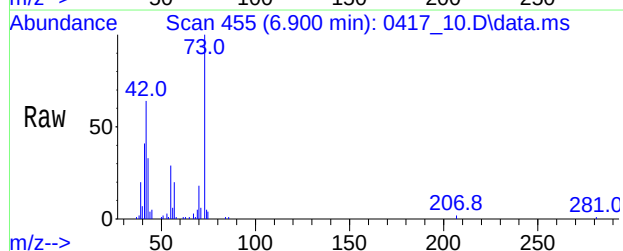
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	37600		
43	21.5	14.2	21.2#	
59	4.3	3.8	5.6	





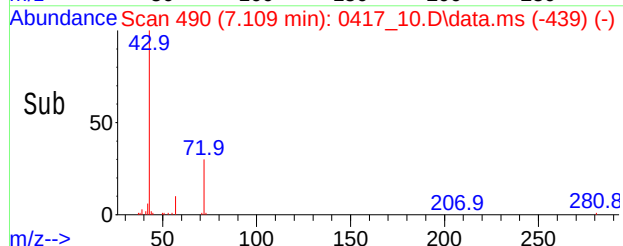
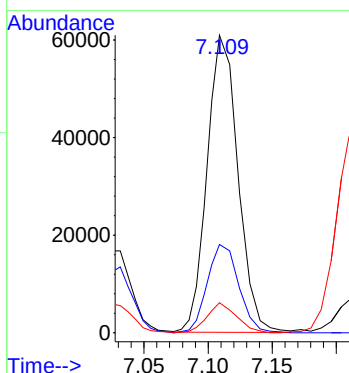
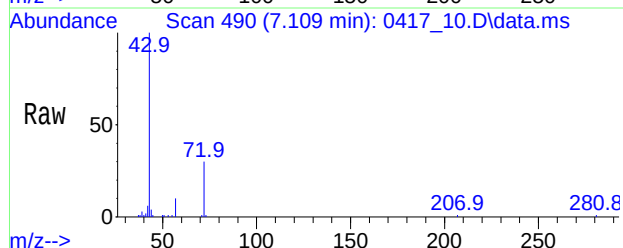
#24
Methyl tert-butyl ether(MTBE)
Conc: 8\$ 0.446 ppbv
RT: 6.900 min Scan# 455
Delta R.T. 0.012 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

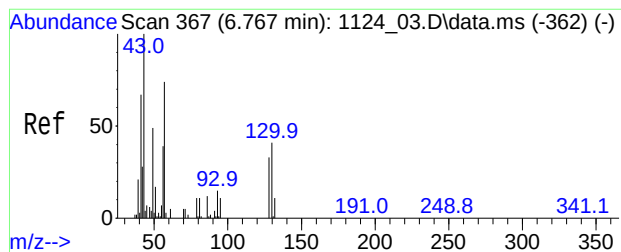
Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.5	26.3
41	46.2	15.3	22.9#



#26
Methyl Ethyl Ketone
Conc: 8\$ 1.682 ppbv
RT: 7.109 min Scan# 490
Delta R.T. 0.006 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

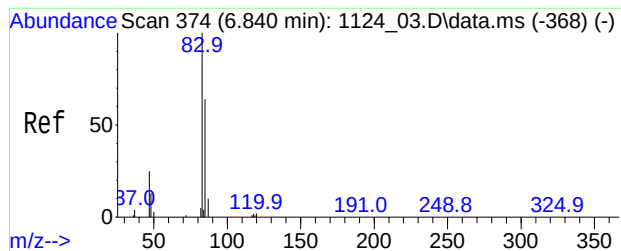
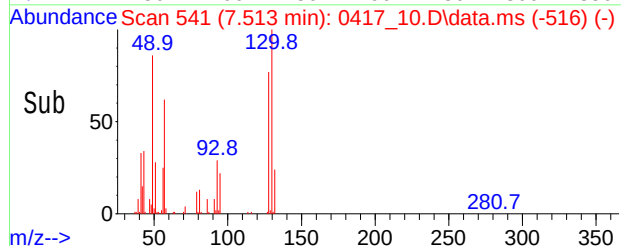
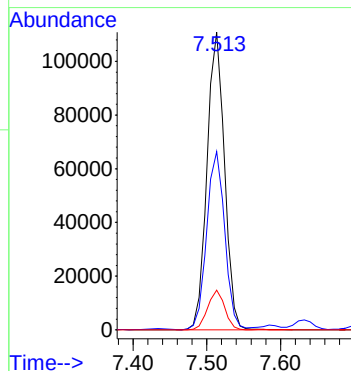
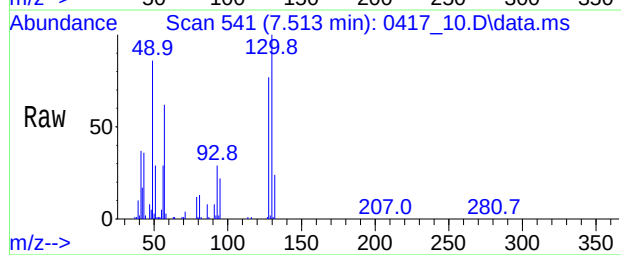
Tgt Ion	Ratio	Lower	Upper
43	100		
72	30.4	23.4	35.0
57	9.7	7.2	10.8





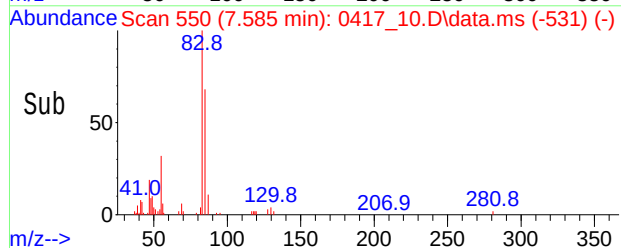
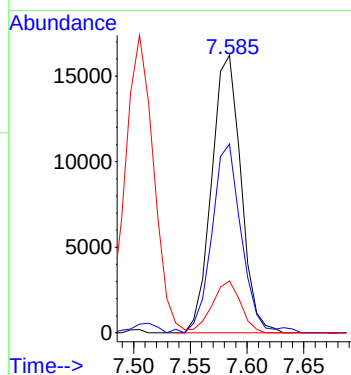
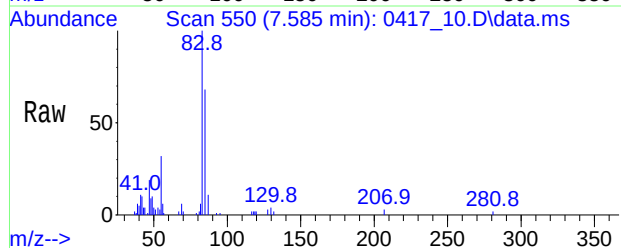
#28
Hexane
Conc: 8\$ 3.535 ppbv
RT: 7.513 min Scan# 541
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

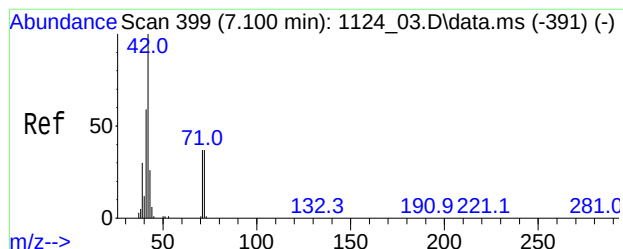
Tgt Ion	Ratio	Lower	Upper
57	100		
41	62.2	51.7	77.5
86	13.0	10.3	15.5



#29
Chloroform
Conc: 8\$ 0.389 ppbv
RT: 7.585 min Scan# 550
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

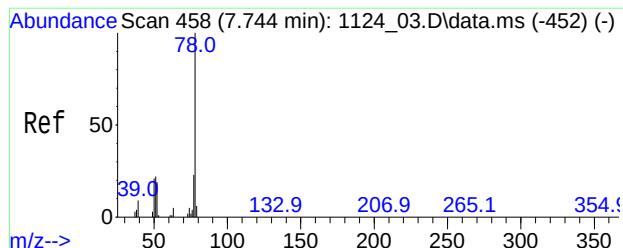
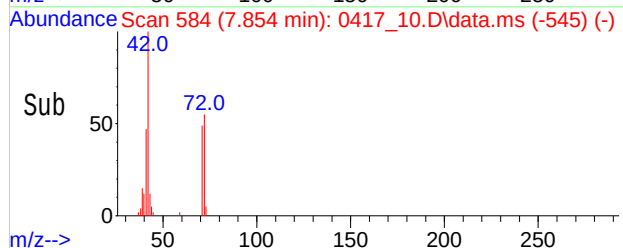
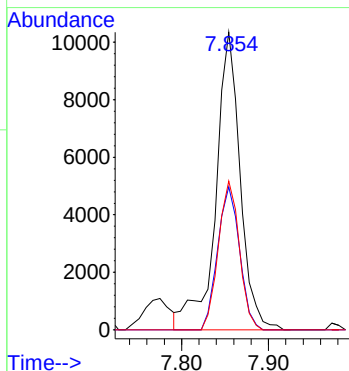
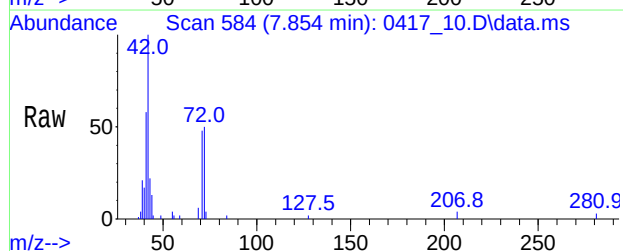
Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.6	45.7	85.7
47	18.2	0.0	37.8





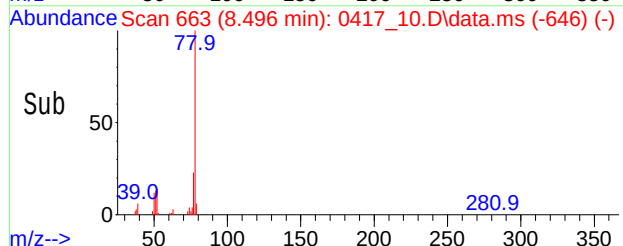
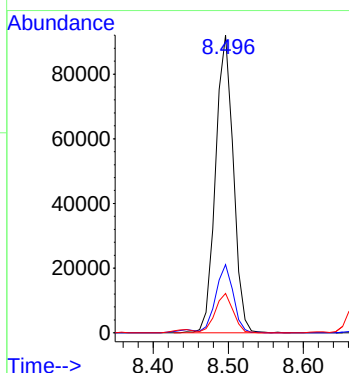
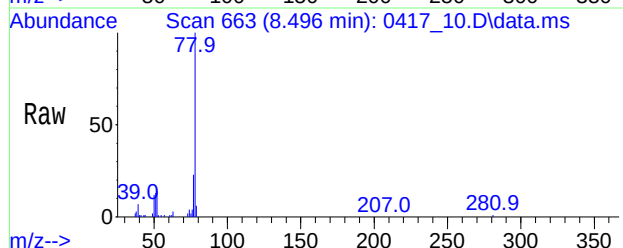
#31
Tetrahydrofuran
Conc: 8\$ 0.599 ppbv
RT: 7.854 min Scan# 584
Delta R.T. 0.008 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

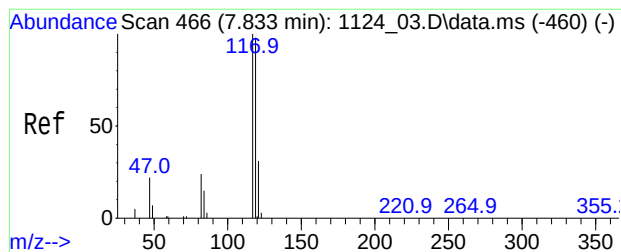
Tgt Ion	Ratio	Lower	Upper
42	100		
71	42.9	38.6	58.0
72	42.7	39.0	58.4



#34
Benzene
Conc: 8\$ 1.295 ppbv
RT: 8.496 min Scan# 663
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

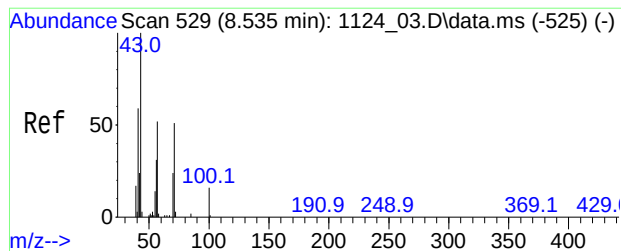
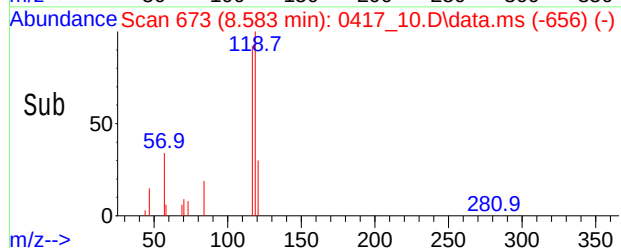
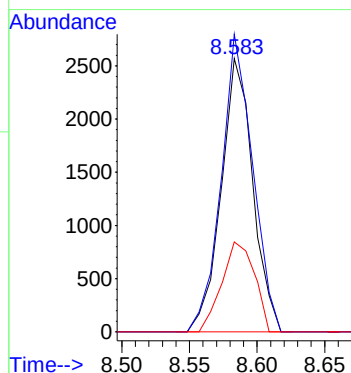
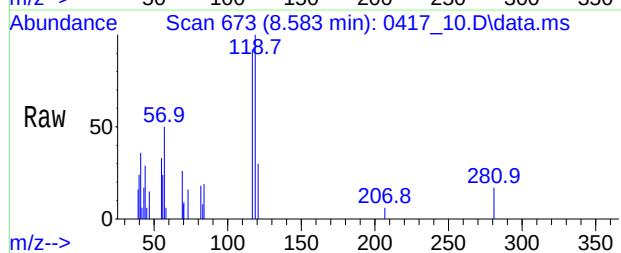
Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.6	27.8
51	13.3	11.0	16.4





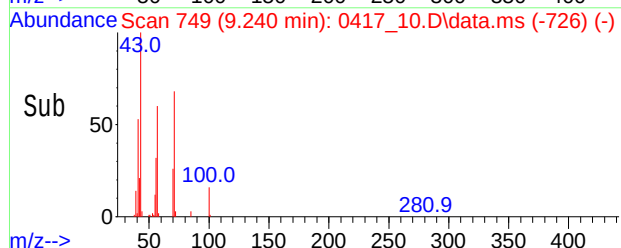
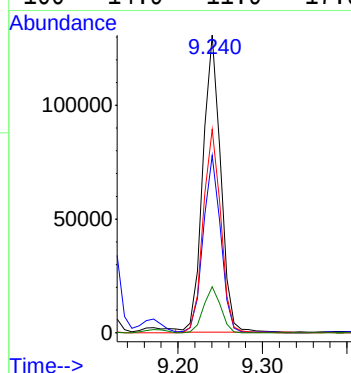
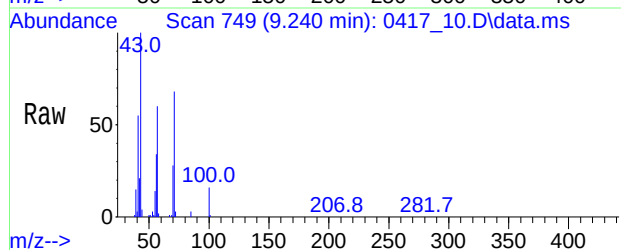
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.583 min Scan# 673
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

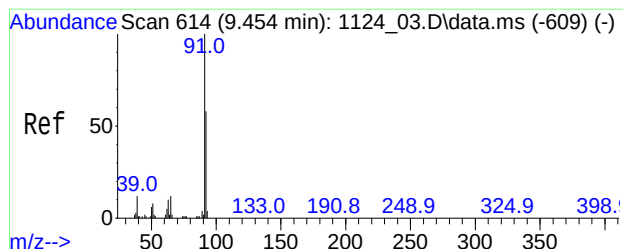
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4179		
119	108.4	77.6	117.6	
121	33.9	11.5	51.5	



#44
Heptane
Conc: 8\$ 3.273 ppbv
RT: 9.240 min Scan# 749
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

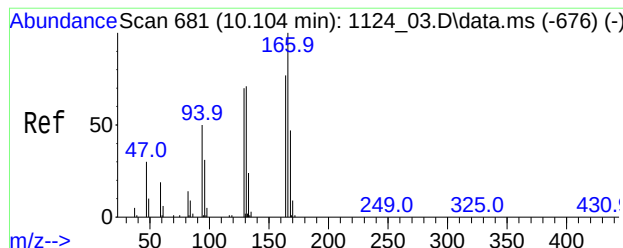
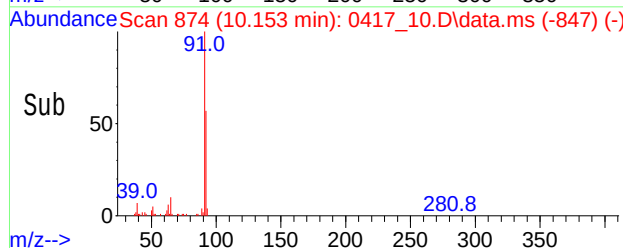
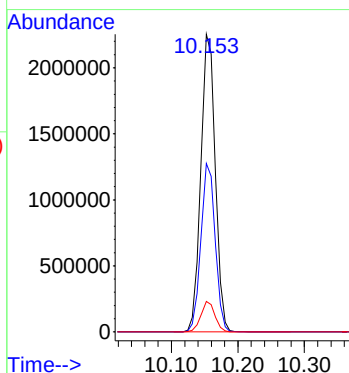
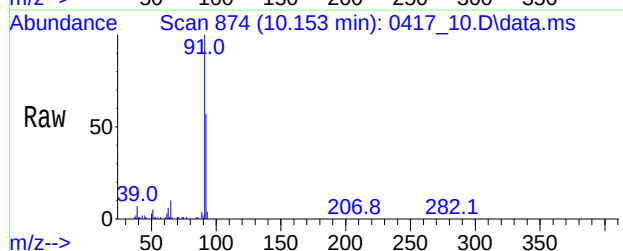
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	190472		
57	57.7	46.6	70.0	
71	67.7	53.2	79.8	
100	14.9	11.9	17.9	





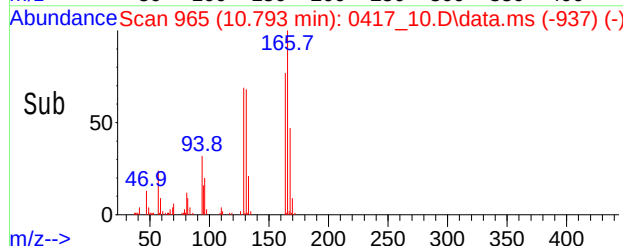
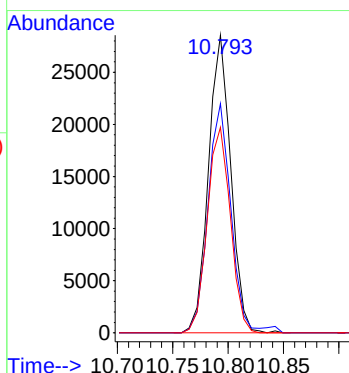
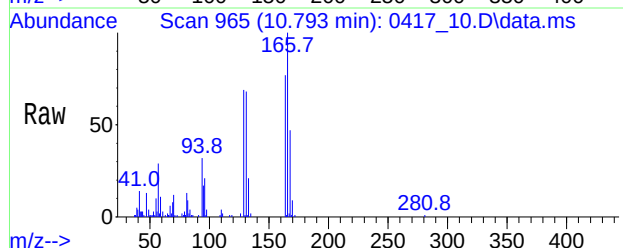
#49
Toluene
Conc: 8\$ 22.475 ppbv
RT: 10.153 min Scan# 874
Delta R.T. -0.007 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

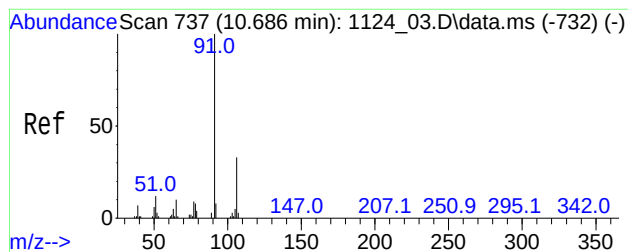
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.9	44.7	67.1
65	9.9	8.1	12.1



#53
Tetrachloroethene
Conc: 8\$ 0.468 ppbv
RT: 10.793 min Scan# 965
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

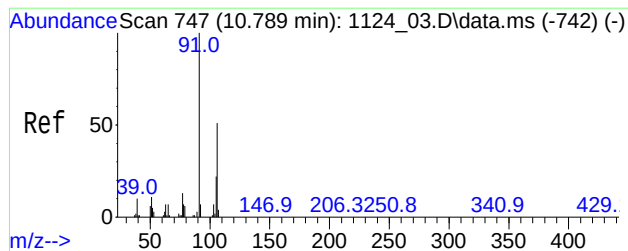
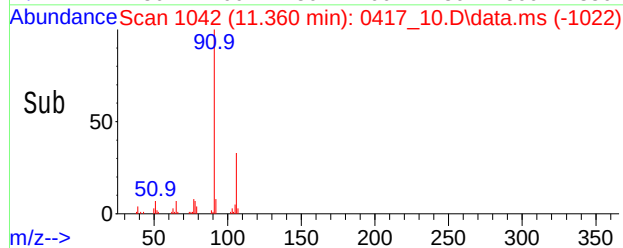
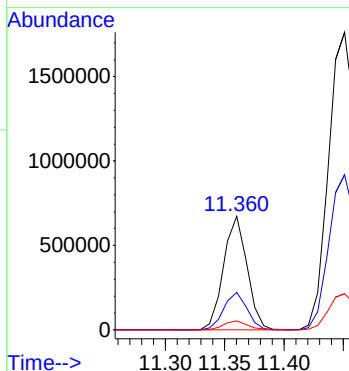
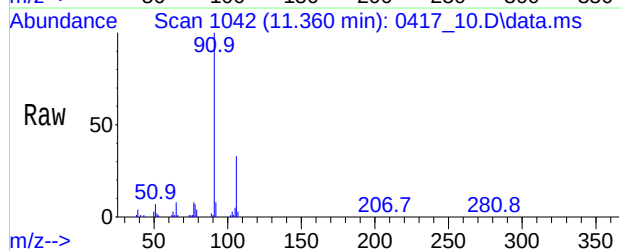
Tgt Ion	Ratio	Lower	Upper
166	100		
164	79.8	62.5	93.7
129	71.3	57.4	86.2





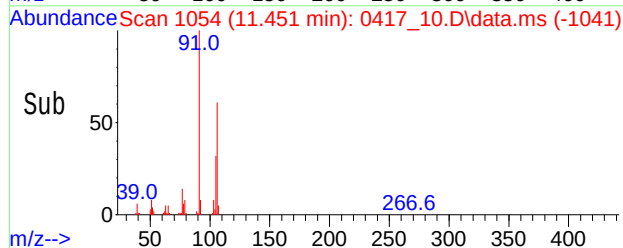
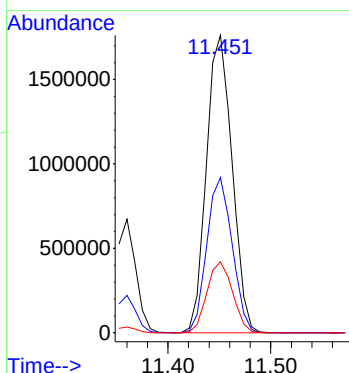
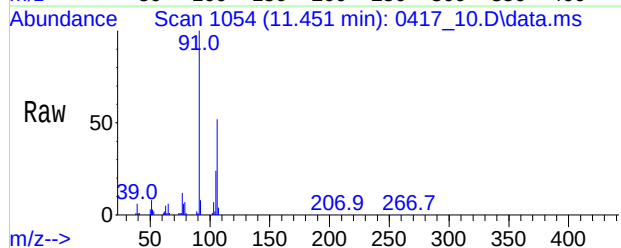
#57
Ethylbenzene
Conc: 8\$ 5.075 ppbv
RT: 11.360 min Scan# 1042
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

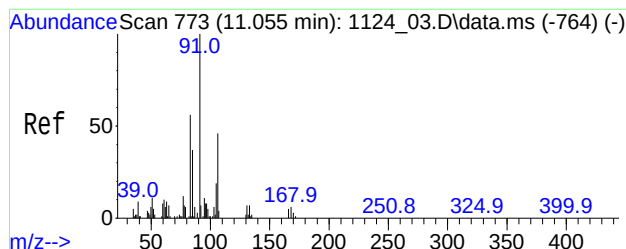
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	919707		
106	32.7		13.4	53.4
77	8.4		0.0	27.9



#58
m,p-Xylene
Conc: 8\$ 22.228 ppbv
RT: 11.451 min Scan# 1054
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

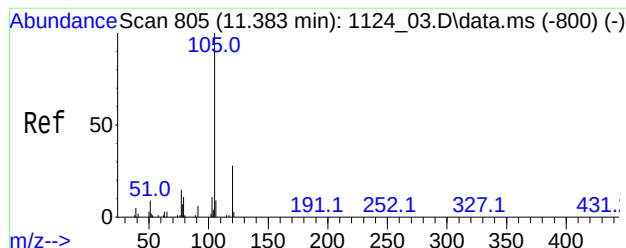
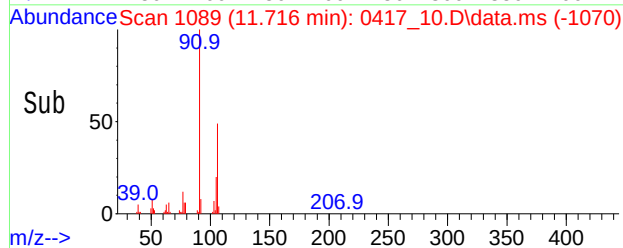
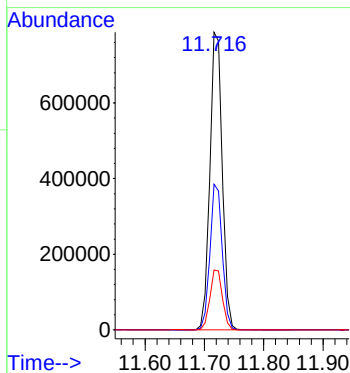
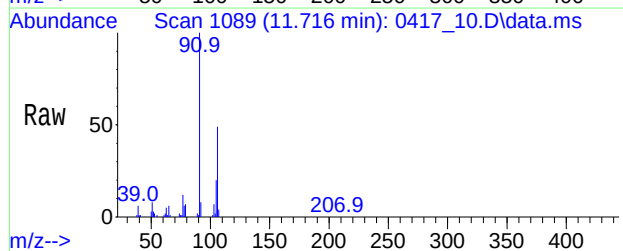
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	3058797		
106	51.7		40.6	61.0
105	23.9		19.3	28.9





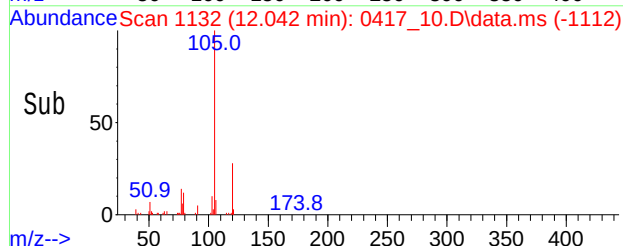
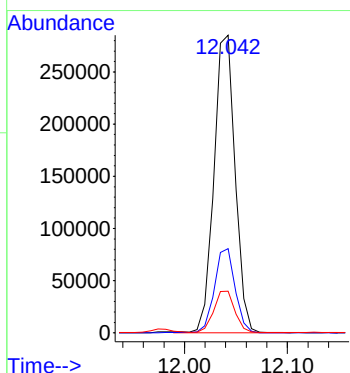
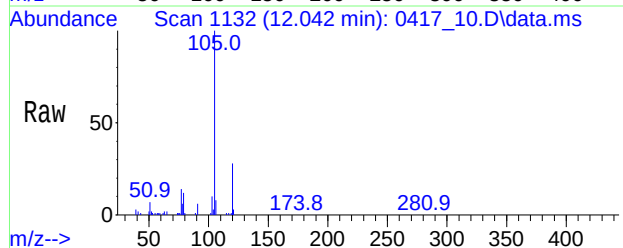
#62
o-Xylene
Conc: 8\$ 8.001 ppbv
RT: 11.716 min Scan# 1089
Delta R.T. -0.007 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

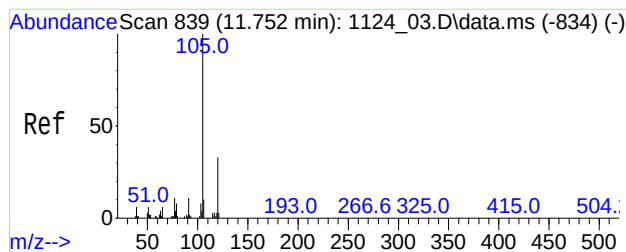
Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.7	38.9	58.3
105	20.3	16.3	24.5



#65
Isopropylbenzene
Conc: 8\$ 2.086 ppbv
RT: 12.042 min Scan# 1132
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

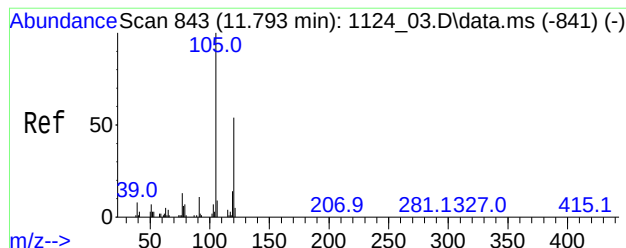
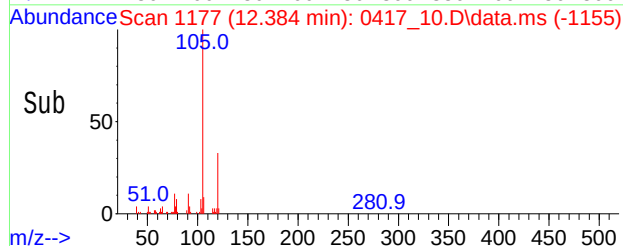
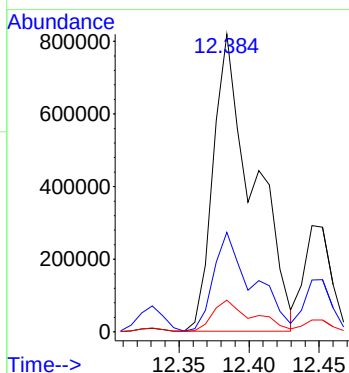
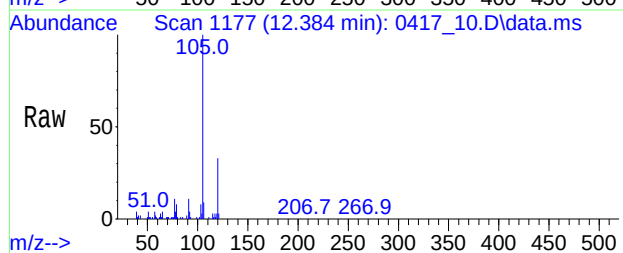
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.8	22.1	33.1
77	14.0	11.0	16.6





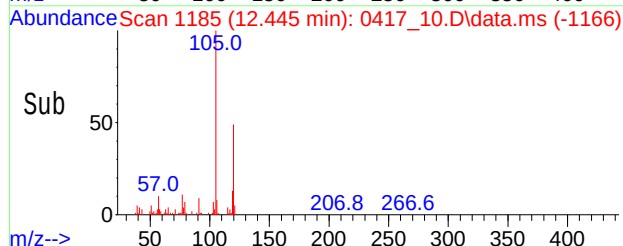
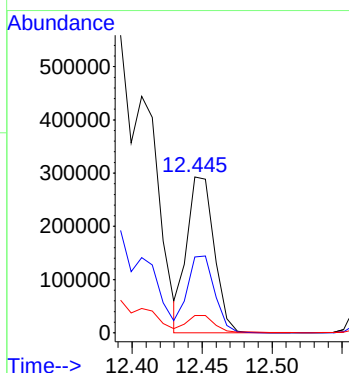
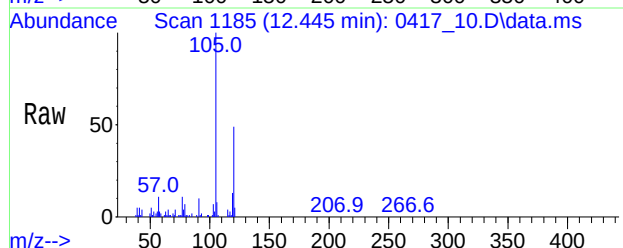
#67
4-Ethyltoluene
Conc: 8\$ 7.877 ppbv
RT: 12.384 min Scan# 1177
Delta R.T. -0.030 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

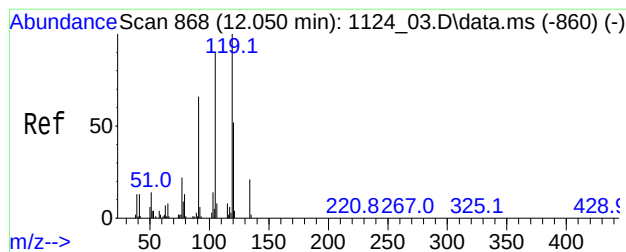
Tgt Ion	105	120	77
Ratio	100	32.5	10.6
Resp: Lower	1635153	25.6	8.1
Upper		38.4	12.1



#68
1,3,5-Trimethylbenzene
Conc: 8\$ 2.347 ppbv
RT: 12.445 min Scan# 1185
Delta R.T. -0.007 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

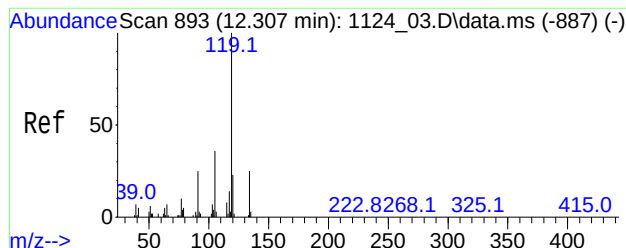
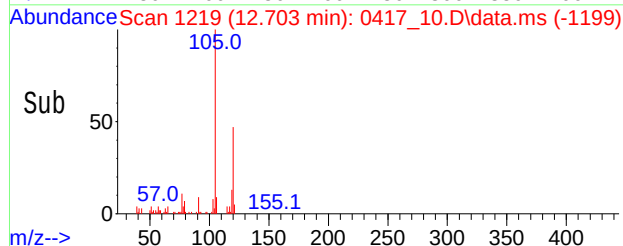
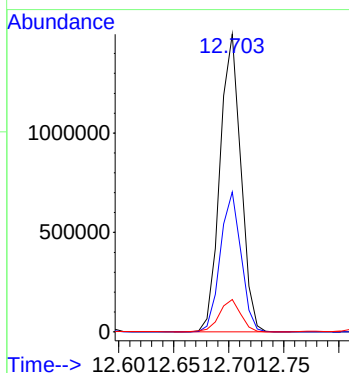
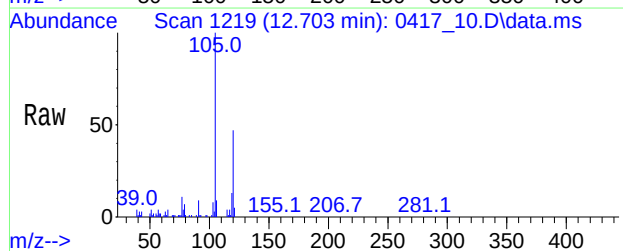
Tgt Ion	105	120	77
Ratio	100	49.3	11.6
Resp: Lower	396396	39.3	8.9
Upper		58.9	13.3





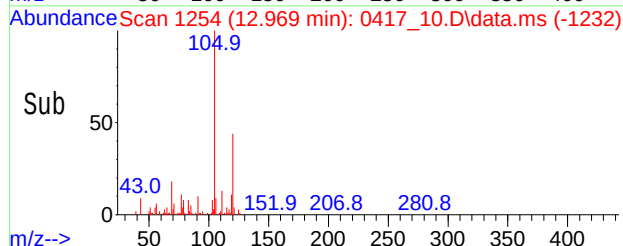
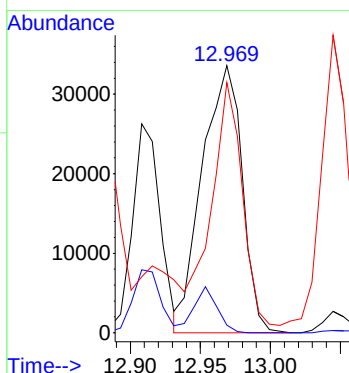
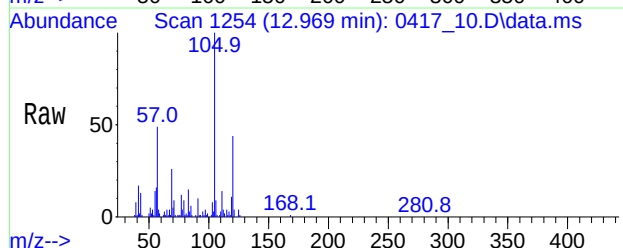
#69
1,2,4-Trimethylbenzene
Conc: 8\$ 11.434 ppbv
RT: 12.703 min Scan# 1219
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

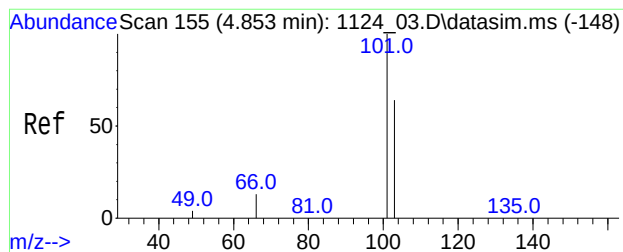
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	44.2	66.4
77	11.1	16.4	24.6#



#75
4-Isopropyltoluene
Conc: 8\$ 0.291 ppbv
RT: 12.969 min Scan# 1254
Delta R.T. 0.015 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

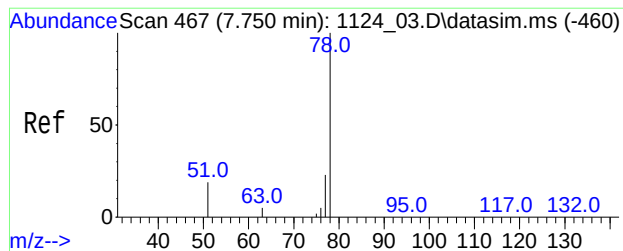
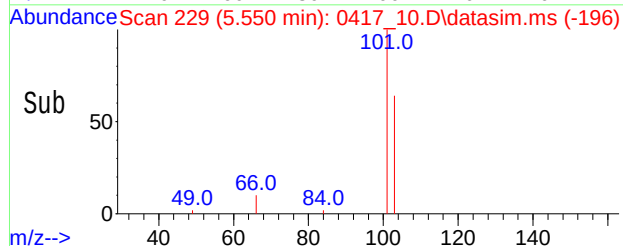
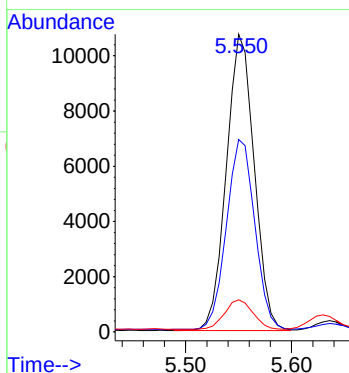
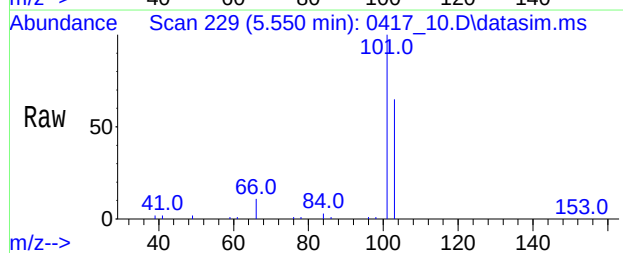
Tgt Ion	Ratio	Lower	Upper
119	100		
134	10.2	20.3	30.5#
91	69.3	21.4	32.0#





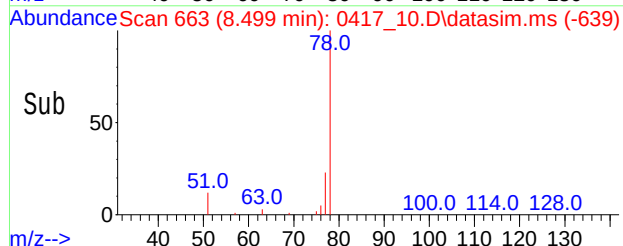
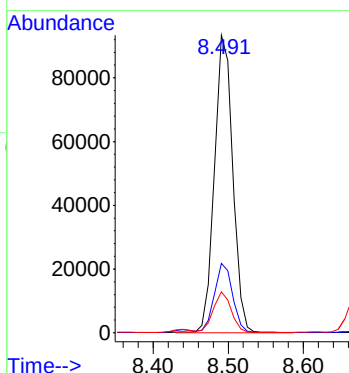
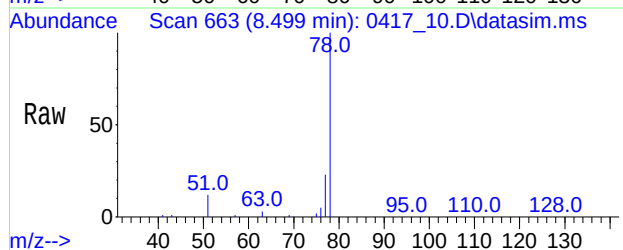
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.246 ppbv
RT: 5.550 min Scan# 229
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

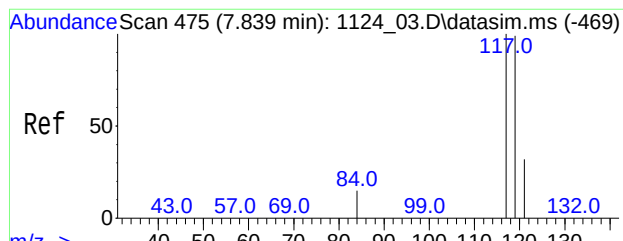
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19665		
103	65.4	52.1	78.1	
66	10.2	10.8	10.8#	



#88
Benzene(sim)
Conc: 8\$ 1.144 ppbv
RT: 8.496 min Scan# 663
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

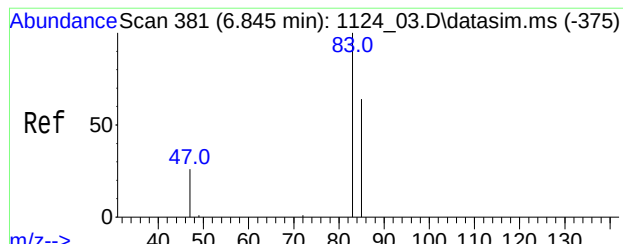
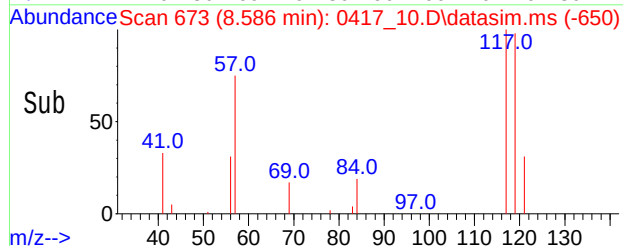
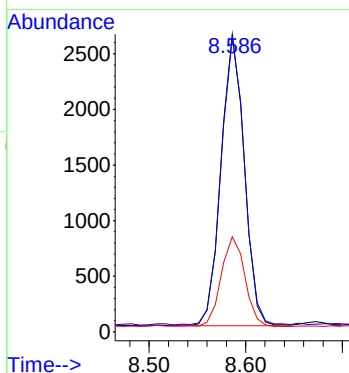
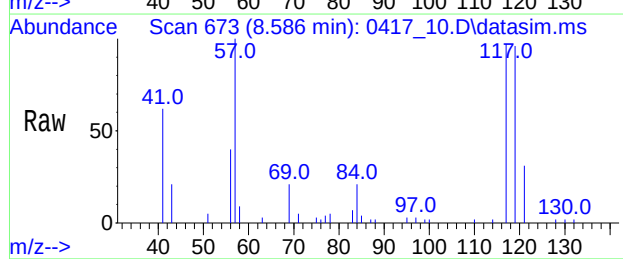
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	150975		
77	22.5	18.6	27.8	
51	13.3	11.0	16.4	





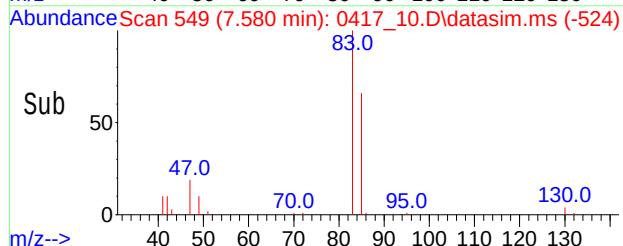
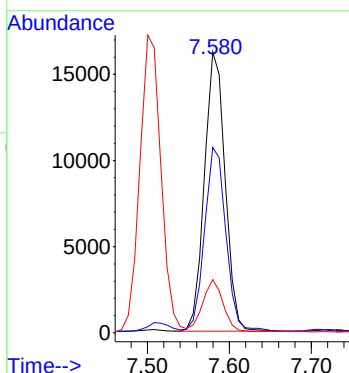
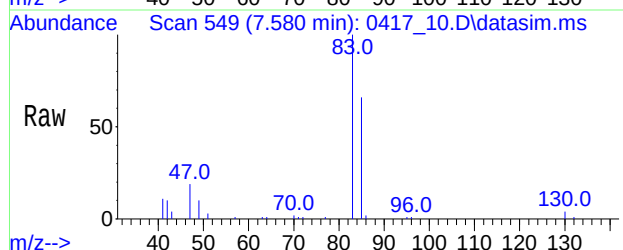
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.057 ppbv
RT: 8.586 min Scan# 673
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

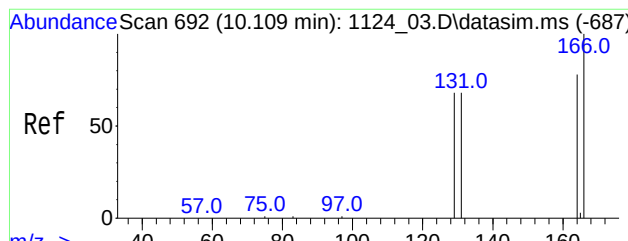
Tgt Ion: 117 Resp: 4335
Ion Ratio Lower Upper
117 100
119 99.2 77.6 116.4
121 31.6 25.0 37.6



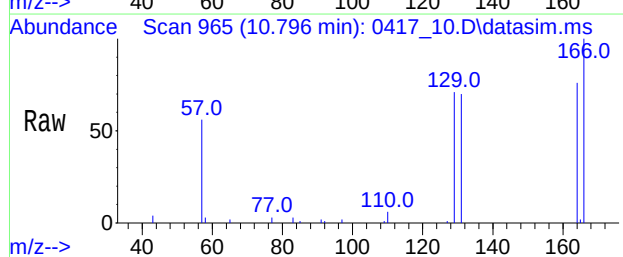
#95
Chloroform(sim)
Conc: 8\$ 0.349 ppbv
RT: 7.580 min Scan# 549
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

Tgt Ion: 83 Resp: 28400
Ion Ratio Lower Upper
83 100
85 67.8 52.2 78.4
47 18.5 14.6 21.8

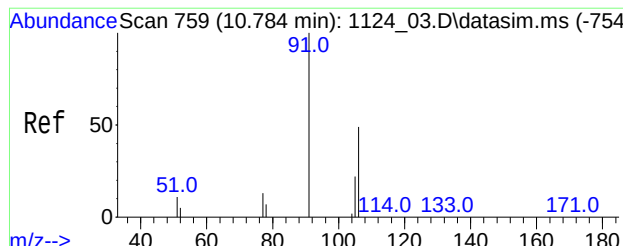
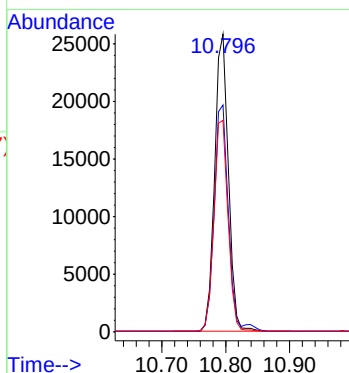
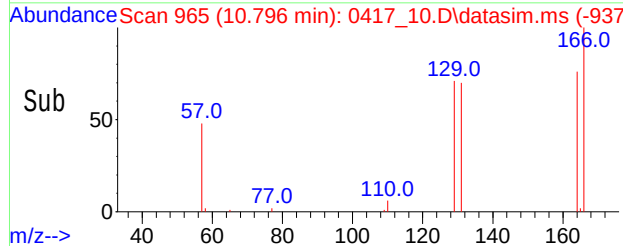




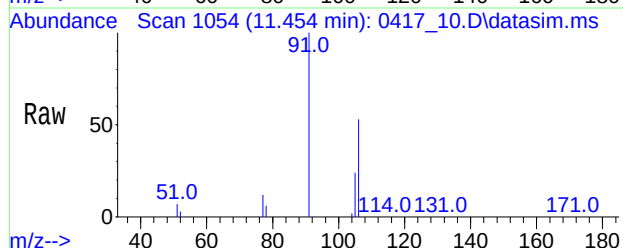
#105
Tetrachloroethene(sim)
Conc: 8\$ 0.444 ppbv
RT: 10.796 min Scan# 965
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm



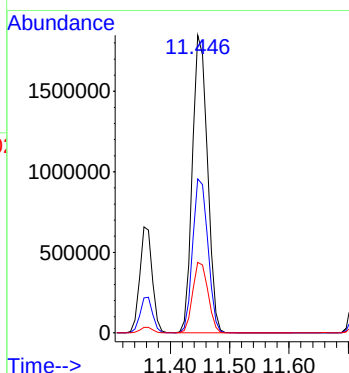
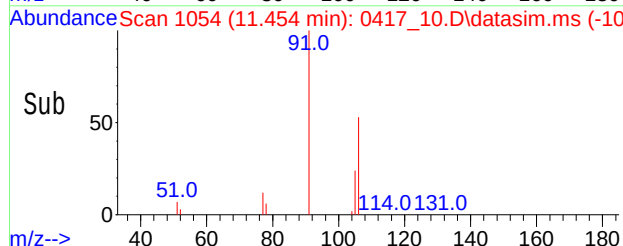
Tgt Ion: 166 Resp: 38150
Ion Ratio Lower Upper
166 100
164 79.5 58.0 98.0
129 72.9 52.6 92.6

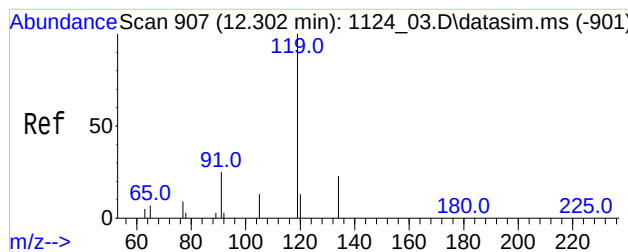


#108
m,p-Xylene(sim)
Conc: 8\$ 20.996 ppbv
RT: 11.451 min Scan# 1054
Delta R.T. 0.000 min
Lab File: 0417_10.D
Acq: 17 Apr 2023 5:14 pm

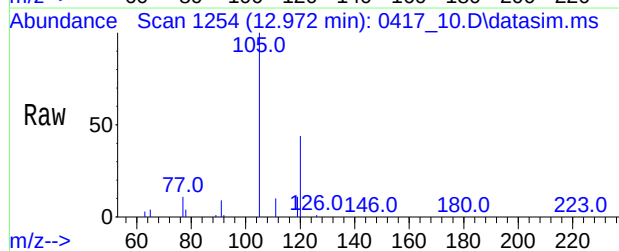


Tgt Ion: 91 Resp: 3065857
Ion Ratio Lower Upper
91 100
106 51.6 45.7 55.9
105 23.8 19.3 28.9

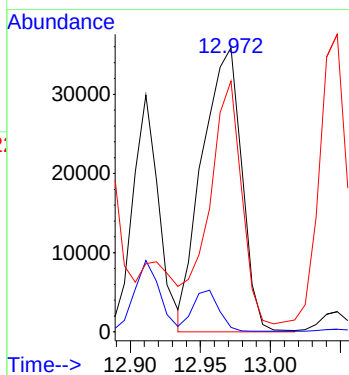
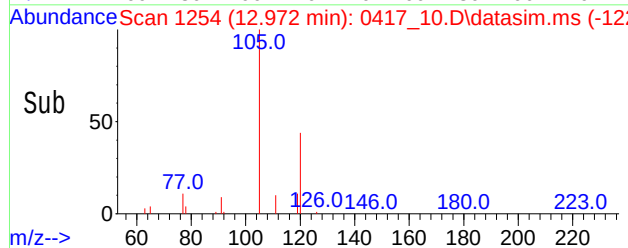




#116
 4-Isopropyltoluene(sim)
 Conc: 8\$ 0.267 ppbv
 RT: 12.969 min Scan# 1254
 Delta R.T. 0.015 min
 Lab File: 0417_10.D
 Acq: 17 Apr 2023 5:14 pm



Tgt Ion:	119	Resp:	66581
Ion Ratio	100	Lower	Upper
134	10.2	20.3	30.5#
91	69.3	21.4	32.0#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN84184 LCS
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84184 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>0417_04.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>04/14/23</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>04/17/23</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	10.8		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	10.1		0.202	0.202	r
74-87-3	Chloromethane	10.4		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	10.3		0.143	0.143	r
75-01-4	Vinyl Chloride	10.2		0.078	0.078	r
106-99-0	1,3-Butadiene	10.3		0.452	0.452	r
74-83-9	Bromomethane	9.72		0.258	0.258	r
75-00-3	Chloroethane	9.38		0.379	0.379	r
64-17-5	Ethanol	14.1		0.531	0.531	r
67-64-1	Acetone	10.6		0.421	0.421	r
75-69-4	Trichlorofluoromethane	11.0		0.178	0.178	r
67-63-0	Isopropylalcohol	13.7		0.407	0.407	r
107-13-1	Acrylonitrile	10.6		0.461	0.461	r
75-35-4	1,1-Dichloroethene	10.7		0.051	0.051	r
75-09-2	Methylene Chloride	11.0		0.863	0.863	r
75-15-0	Carbon Disulfide	10.4		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	10.4		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	10.3		0.252	0.252	r
75-34-3	1,1-Dichloroethane	10.4		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	10.4		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	11.2		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	10.3		0.051	0.051	r
110-54-3	Hexane	10.3		0.284	0.284	r
67-66-3	Chloroform	10.2		0.205	0.205	r
141-78-6	Ethyl acetate	7.91		0.278	0.278	r
109-99-9	Tetrahydrofuran	10.5		0.339	0.339	r
107-06-2	1,2-Dichloroethane	10.7		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	10.1		0.183	0.183	r
71-43-2	Benzene	9.80		0.313	0.313	r
56-23-5	Carbon Tetrachloride	9.15		0.032	0.032	r
110-82-7	Cyclohexane	9.61		0.291	0.291	r
78-87-5	1,2-dichloropropane	9.91		0.217	0.217	r
75-27-4	Bromodichloromethane	9.97		0.149	0.149	r
79-01-6	Trichloroethene	10.2		0.037	0.037	r
123-91-1	1,4-Dioxane	10.4		0.278	0.278	r
142-82-5	Heptane	10.8		0.244	0.244	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN84184 LCS
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84184 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>0417_04.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>04/14/23</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>04/17/23</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
10061-01-5	cis-1,3-Dichloropropene	9.92		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	10.8		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	10.1		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	10.1		0.183	0.183	r
108-88-3	Toluene	9.95		0.266	0.266	r
124-48-1	Dibromochloromethane	9.36		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	11.2		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	10.2		0.130	0.130	r
127-18-4	Tetrachloroethene	9.92		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	9.32		0.146	0.146	r
108-90-7	Chlorobenzene	10.0		0.217	0.217	r
100-41-4	Ethylbenzene	9.85		0.230	0.230	r
179601-23-1	m,p-Xylene	20.5		0.230	0.230	r
75-25-2	Bromoform	8.79		0.097	0.097	r
100-42-5	Styrene	10.0		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	10.0		0.146	0.146	r
95-47-6	o-Xylene	9.63		0.230	0.230	r
98-82-8	Isopropylbenzene	10.1		0.204	0.204	r
622-96-8	4-Ethyltoluene	10.3		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	10.1		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	10.4		0.204	0.204	r
100-44-7	Benzyl chloride	10.6		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	10.7		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	9.96		0.166	0.166	r
135-98-8	sec-Butylbenzene	10.1		0.182	0.182	r
99-87-6	4-Isopropyltoluene	9.98		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	10.6		0.166	0.166	r
104-51-8	n-Butylbenzene	10.1		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	11.9		0.135	0.135	r
87-68-3	Hexachlorobutadiene	11.7		0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_04.D
 Acq On : 17 Apr 2023 10:11 am
 Operator :
 Client ID : CN84184 LCS
 Lab ID : CN84184 LCS
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 17 13:20:34 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	311044	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.668	114	1154272	10.000	ng	-0.01
54) Chlorobenzene-d5	11.130	82	566942	10.000	ng	0.00
81) Bromochloromethane(sim)	7.531	130	343707	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.668	114	1154272	10.000	ng	-0.01
106) Chlorobenzene-d5(sim)	11.130	82	566942	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	763991	9.868	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.70%

Target Compounds						Qvalue
2) Propylene	4.085	41	408717	10.759	ppbv	93
3) Dichlorodifluoromethane	4.160	85	743568	10.131	ppbv	96
4) Chloromethane	4.311	50	410327	10.433	ppbv	89
5) 1,2-Dichlorotetrafluor...	4.408	85	703914	10.306	ppbv	99
6) Vinyl Chloride	4.516	62	318097	10.184	ppbv	90
7) 1,3-Butadiene	4.645	54	324590	10.246	ppbv	97
8) Bromomethane	4.872	94	248820	9.717	ppbv	94
9) Chloroethane	5.012	64	134788	9.376	ppbv	86
11) Ethanol	5.120	45	200128	14.101	ppbv#	82
12) Acetone	5.486	43	753665	10.546	ppbv	95
13) Trichlorofluoromethane	5.605	101	863017	10.975	ppbv#	90
14) Isopropylalcohol	5.669	45	874012	13.652	ppbv#	96
15) Acrylonitrile	5.807	53	324651	10.640	ppbv	87
16) 1,1-Dichloroethene	6.049	61	609375	10.666	ppbv	92
17) Methylene Chloride	6.126	49	590510	10.948	ppbv	96
20) Carbon Disulfide	6.359	76	734987	10.367	ppbv	98
21) Trichlorotrifluoroethane	6.299	101	602478	10.418	ppbv	96
22) Trans-1,2-Dichloroethene	6.754	61	559338	10.323	ppbv	94
23) 1,1-Dichloroethane	6.881	63	652023	10.388	ppbv	96
24) Methyl tert-butyl ethe...	6.928	73	802704	10.437	ppbv	98
26) Methyl Ethyl Ketone	7.133	43	1225440	11.233	ppbv	97
27) Cis-1,2-Dichloroethene	7.410	61	561201	10.282	ppbv	97
28) Hexane	7.525	57	687593	10.342	ppbv	98
29) Chloroform	7.598	83	667945	10.146	ppbv	97
30) Ethyl acetate	7.525	61	130839	7.907	ppbv	93
31) Tetrahydrofuran	7.858	42	647385	10.452	ppbv	95
32) 1,2-Dichloroethane	8.056	62	536939	10.650	ppbv	93
33) 1,1,1-Trichloroethane	8.223	97	785542	10.121	ppbv	90
34) Benzene	8.499	78	908728	9.804	ppbv	98
35) Carbon Tetrachloride	8.589	117	617765	9.149	ppbv	99
36) Cyclohexane	8.668	84	353510	9.613	ppbv	84
38) 1,2-dichloropropane	8.974	63	447979	9.906	ppbv	97
39) Bromodichloromethane	9.087	83	694090	9.973	ppbv	96
40) Trichloroethene	9.098	130	484279	10.173	ppbv	100
42) 1,4-Dioxane	9.110	88	200361	10.357	ppbv#	87
44) Heptane	9.234	43	1079694	10.779	ppbv	94
45) cis-1,3-Dichloropropene	9.580	75	525639	9.916	ppbv	96
46) 4-Methyl-2-pentanone(M...	9.600	43	1412756	10.775	ppbv	97
47) trans-1,3-Dichloropropene	9.871	75	505125	10.119	ppbv	98
48) 1,1,2-Trichloroethane	9.978	97	419340	10.133	ppbv	98
49) Toluene	10.143	91	1213044	9.951	ppbv	99
50) Dibromochloromethane	10.395	129	712444	9.361	ppbv	95

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_04.D
 Acq On : 17 Apr 2023 10:11 am
 Operator :
 Client ID : CN84184 LCS
 Lab ID : CN84184 LCS
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 17 13:20:34 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.260	43	1343495	11.207	ppbv	94
52)	1,2-Dibromoethane(EDB)	10.531	107	700010	10.170	ppbv	97
53)	Tetrachloroethene	10.774	166	648049	9.920	ppbv	97
55)	1,1,1,2-Tetrachloroethane	11.140	131	507829	9.316	ppbv	94
56)	Chlorobenzene	11.150	112	1006495	10.039	ppbv	84
57)	Ethylbenzene	11.335	91	1588489	9.853	ppbv	98
58)	m,p-Xylene	11.427	91	2464143	20.445	ppbv	96
59)	Bromoform	11.509	173	637898	8.786	ppbv	97
60)	Styrene	11.632	104	952891	10.038	ppbv	97
61)	1,1,2,2-Tetrachloroethane	11.694	83	920960	10.020	ppbv	96
62)	o-Xylene	11.694	91	1246025	9.631	ppbv	100
65)	Isopropylbenzene	12.011	105	1755577	10.065	ppbv	100
67)	4-Ethyltoluene	12.381	105	1853981	10.272	ppbv	100
68)	1,3,5-Trimethylbenzene	12.422	105	1535797	10.094	ppbv	98
69)	1,2,4-Trimethylbenzene	12.678	105	1606347	10.397	ppbv	98
71)	Benzyl chloride	12.770	91	1229279	10.547	ppbv	97
72)	1,3-Dichlorobenzene	12.791	146	1154188	10.653	ppbv	98
73)	1,4-Dichlorobenzene	12.832	146	1024410	9.954	ppbv	99
74)	sec-Butylbenzene	12.832	105	2165120	10.076	ppbv	97
75)	4-Isopropyltoluene	12.924	119	2058496	9.983	ppbv	99
76)	1,2-Dichlorobenzene	13.047	146	1095231	10.627	ppbv	97
77)	n-Butylbenzene	13.191	91	1712500	10.067	ppbv	100
78)	1,2,4-Trichlorobenzene	14.228	180	802835	11.874	ppbv	94
80)	Hexachlorobutadiene	14.566	225	796641	11.698	ppbv	94
82)	1,2-Dichlorotetrafluor...	4.408	85	703566	9.296	ppbv	99
83)	Vinyl Chloride(sim)	4.522	62	343612	9.487	ppbv	98
84)	Bromomethane(sim)	4.872	94	248820	8.264	ppbv	94
85)	Trichlorofluoromethane...	5.610	101	790068	9.690	ppbv#	96
86)	1,2-Dichloroethane(sim)	8.056	62	536939	9.614	ppbv	93
87)	1,1,1-Trichloroethane(...	8.218	97	728032	9.595	ppbv#	98
88)	Benzene(sim)	8.499	78	909441	8.721	ppbv	98
89)	Carbon Tetrachloride(sim)	8.595	117	659475	9.790	ppbv	100
90)	1,1-Dichloroethene(sim)	6.049	61	609375	9.477	ppbv	92
91)	Trichlorotrifluoroetha...	6.304	101	633128	9.744	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.754	61	559338	9.258	ppbv	93
93)	1,1-Dichloroethane(sim)	6.886	63	709848	9.834	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.410	61	561201	8.984	ppbv	97
95)	Chloroform(sim)	7.603	83	699249	9.722	ppbv	100
97)	1,2-dichloropropane(sim)	8.968	63	496680	9.314	ppbv	98
98)	Bromodichloromethane(sim)	9.087	83	694090	9.045	ppbv	96
99)	Trichloroethene(sim)	9.104	130	525385	8.987	ppbv	100
100)	1,4-Dioxane(sim)	9.110	88	200361	9.123	ppbv#	87
101)	cis-1,3-Dichloropropen...	9.586	75	582978	9.874	ppbv	99
102)	1,1,2-Trichloroethane(...	9.978	97	419340	8.736	ppbv	98
103)	Dibromochloromethane(sim)	10.401	129	781819	9.058	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.531	107	700010	9.493	ppbv	98
105)	Tetrachloroethene(sim)	10.780	166	753443	8.797	ppbv	100
107)	Bromoform(sim)	11.515	173	742339	8.729	ppbv	100
108)	m,p-Xylene(sim)	11.427	91	2486322	18.327	ppbv	96
109)	1,1,2,2-Tetrachloroeth...	11.699	83	955391	8.808	ppbv	98
112)	Benzyl chloride(sim)	12.770	91	1229279	10.213	ppbv	97
113)	1,3-Dichlorobenzene(sim)	12.797	146	1341235	10.532	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.832	146	1024410	8.095	ppbv	98
115)	sec-Butylbenzene(sim)	12.838	105	2379285	8.852	ppbv	100
116)	4-Isopropyltoluene(sim)	12.924	119	2060345	8.487	ppbv	99

Data Path : H:\AIR2023\CHEM20\04APR\17\
Data File : 0417_04.D
Acq On : 17 Apr 2023 10:11 am
Operator :
Client ID : CN84184 LCS
Lab ID : CN84184 LCS
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Apr 17 13:20:34 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration

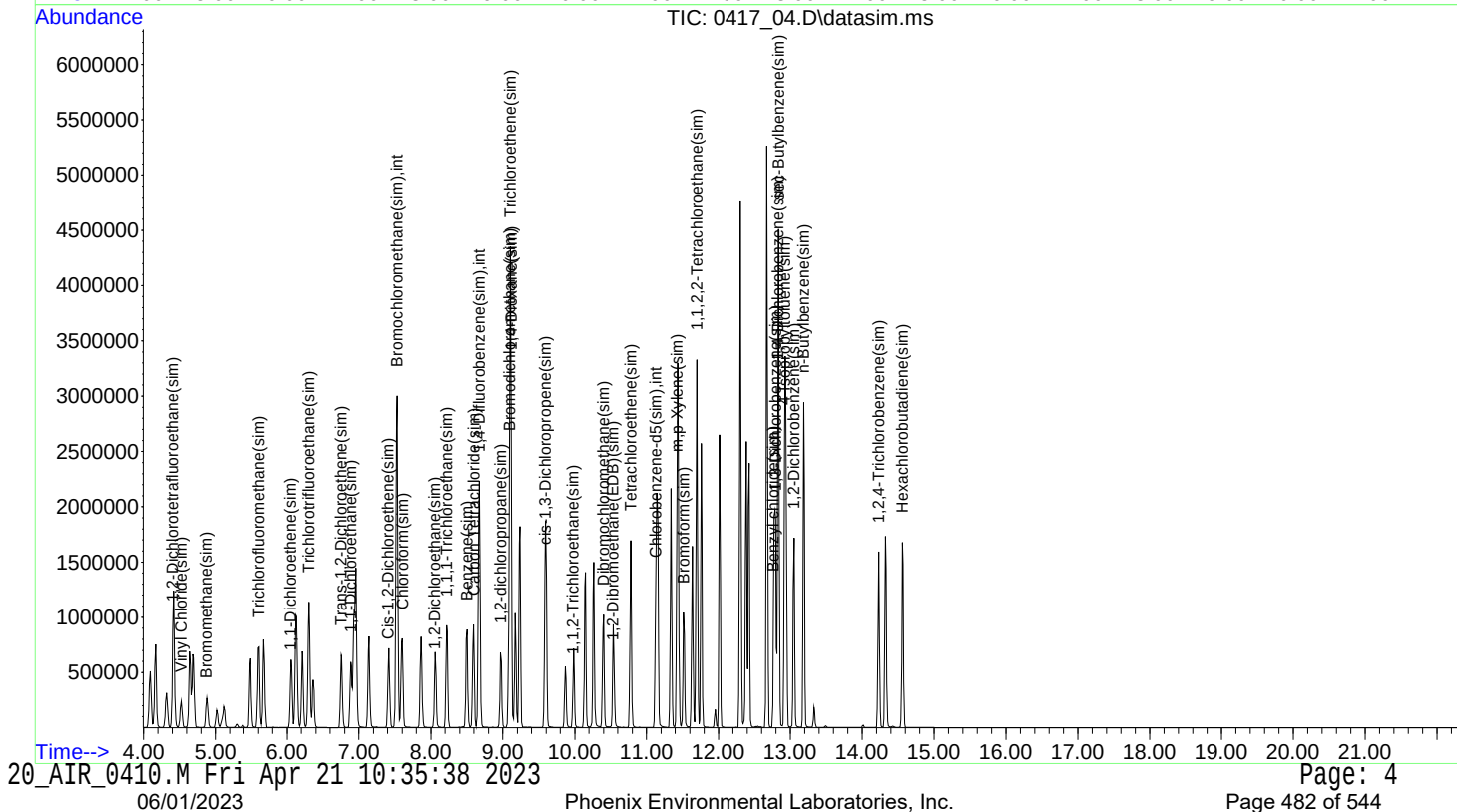
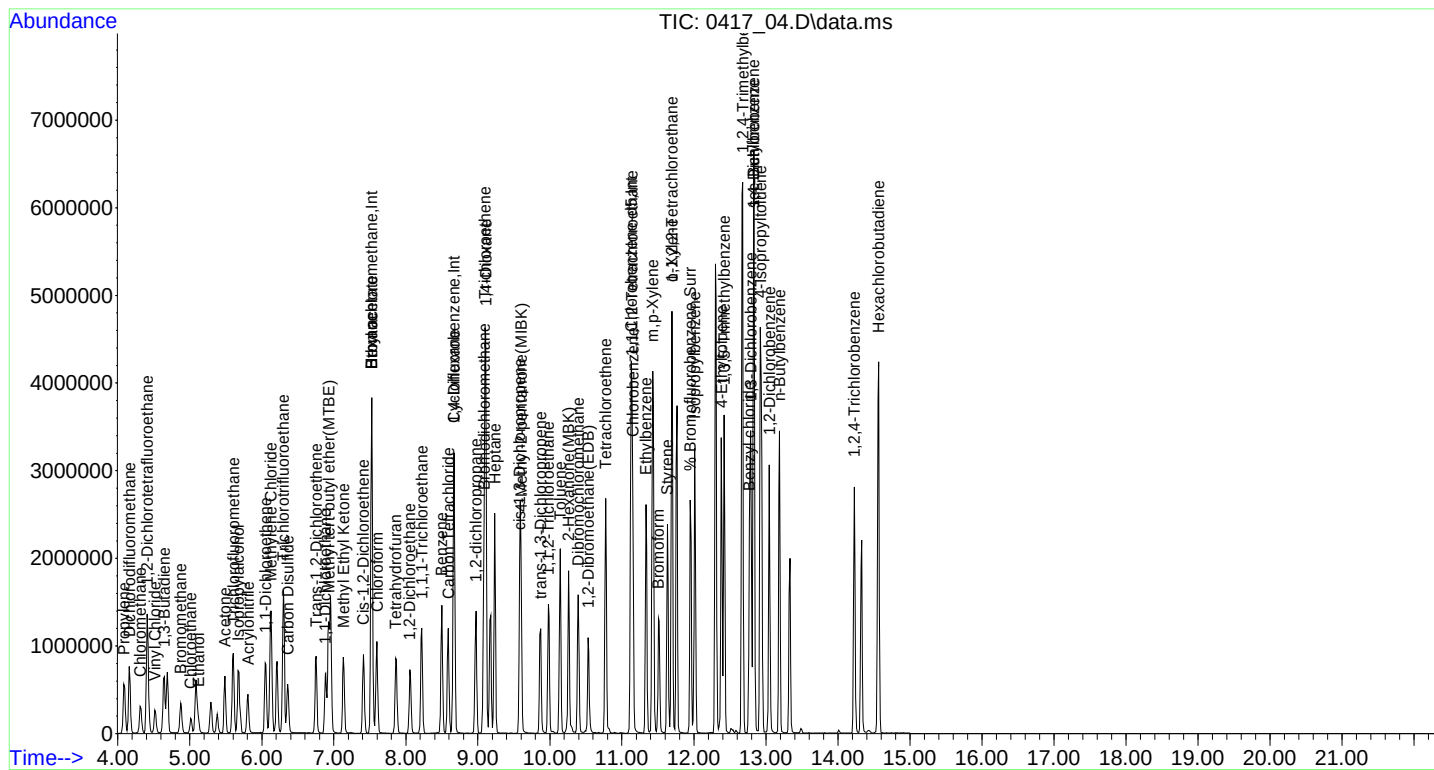
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.053	146	1205830	10.108	ppbv	100
118]	n-Butylbenzene(sim)	13.191	91	1712500	8.550	ppbv	100
119]	1,2,4-Trichlorobenzene...	14.233	180	935908	14.668	ppbv	99
120]	Hexachlorobutadiene(sim)	14.566	225	796641	11.326	ppbv	94

(#)out of range (m>manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

```
Data Path   : H:\AIR2023\CHEM20\04APR\17\  
Data File  : 0417_04.D  
Acq On     : 17 Apr 2023  10:11 am  
Operator   :  
Client ID  : CN84184 LCS  
Lab ID     : CN84184 LCS  
ALS Vial   : 29 Sample Multiplier: 1
```

Quant Time: Apr 17 13:20:34 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN84184 BLANK
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84184 BL</u>	
Canister:	<u>BL</u>	Lab File ID:	<u>0417_05.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>04/14/23</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>04/17/23</u>
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.580	U	0.580	0.580	r
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
74-87-3	Chloromethane	0.480	U	0.480	0.480	r
106-99-0	1,3-Butadiene	0.450	U	0.450	0.450	r
75-00-3	Chloroethane	0.380	U	0.380	0.380	r
64-17-5	Ethanol	0.530	U	0.530	0.530	r
67-64-1	Acetone	0.420	U	0.420	0.420	r
67-63-0	Isopropylalcohol	0.410	U	0.410	0.410	r
107-13-1	Acrylonitrile	0.460	U	0.460	0.460	r
75-09-2	Methylene Chloride	0.860	U	0.860	0.860	r
75-15-0	Carbon Disulfide	0.320	U	0.320	0.320	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.280	U	0.280	0.280	r
78-93-3	Methyl Ethyl Ketone	0.340	U	0.340	0.340	r
110-54-3	Hexane	0.280	U	0.280	0.280	r
141-78-6	Ethyl acetate	0.280	U	0.280	0.280	r
109-99-9	Tetrahydrofuran	0.340	U	0.340	0.340	r
110-82-7	Cyclohexane	0.290	U	0.290	0.290	r
142-82-5	Heptane	0.240	U	0.240	0.240	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.240	U	0.240	0.240	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.270	U	0.270	0.270	r
591-78-6	2-Hexanone(MBK)	0.240	U	0.240	0.240	r
630-20-6	1,1,1,2-Tetrachloroethane	0.150	U	0.150	0.150	r
108-90-7	Chlorobenzene	0.220	U	0.220	0.220	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.230	U	0.230	0.230	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.200	U	0.200	0.200	r
622-96-8	4-Ethyltoluene	0.200	U	0.200	0.200	r
108-67-8	1,3,5-Trimethylbenzene	0.200	U	0.200	0.200	r
95-63-6	1,2,4-Trimethylbenzene	0.200	U	0.200	0.200	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.140	U	0.140	0.140	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.260	U	0.260	0.260	r
75-69-4	Trichlorofluoromethane(sim)	0.180	U	0.180	0.180	r
107-06-2	1,2-Dichloroethane(sim)	0.250	U	0.250	0.250	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CN84184 BLANK

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CN84184 BL
Canister:	BL	Lab File ID:	0417_05.D
Instrument:	CHEM20	Column:	RTX-1 60M
		Date Received:	04/14/23
Purge Volume	200	(cc)	
		Date Analyzed:	04/17/23
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
71-55-6	1,1,1-Trichloroethane(sim)	0.180	U	0.180	0.180	r
71-43-2	Benzene(sim)	0.310	U	0.310	0.310	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
76-13-1	Trichlorotrifluoroethane(sim)	0.130	U	0.130	0.130	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.250	U	0.250	0.250	r
75-34-3	1,1-Dichloroethane(sim)	0.250	U	0.250	0.250	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
78-87-5	1,2-dichloropropane(sim)	0.220	U	0.220	0.220	r
75-27-4	Bromodichloromethane(sim)	0.150	U	0.150	0.150	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.280	U	0.280	0.280	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.180	U	0.180	0.180	r
124-48-1	Dibromochloromethane(sim)	0.120	U	0.120	0.120	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.150	U	0.150	0.150	r
100-44-7	Benzyl chloride(sim)	0.190	U	0.190	0.190	r
541-73-1	1,3-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
106-46-7	1,4-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
135-98-8	sec-Butylbenzene(sim)	0.180	U	0.180	0.180	r
99-87-6	4-Isopropyltoluene(sim)	0.180	U	0.180	0.180	r
95-50-1	1,2-Dichlorobenzene(sim)	0.170	U	0.170	0.170	r
104-51-8	n-Butylbenzene(sim)	0.180	U	0.180	0.180	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.130	U	0.130	0.130	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\17\
Data File : 0417_05.D
Acq On : 17 Apr 2023 10:42 am
Operator :
Client ID : CN84184 BLANK
Lab ID : CN84184 BLANK
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 17 13:28:47 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.515	130	306662	10.000	ng	-0.01
37) 1,4-Difluorobenzene	8.668	114	1166629	10.000	ng	-0.01
54) Chlorobenzene-d5	11.120	82	530727	10.000	ng	-0.01
81) Bromochloromethane(sim)	7.520	130	340513	10.000	ng	#-0.01
96) 1,4-Difluorobenzene(sim)	8.668	114	1163758	10.000	ng	-0.01
106) Chlorobenzene-d5(sim)	11.120	82	530727	10.000	ng	-0.01

System Monitoring Compounds

63) % Bromofluorobenzene	11.950	95	756885	10.443	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.40%

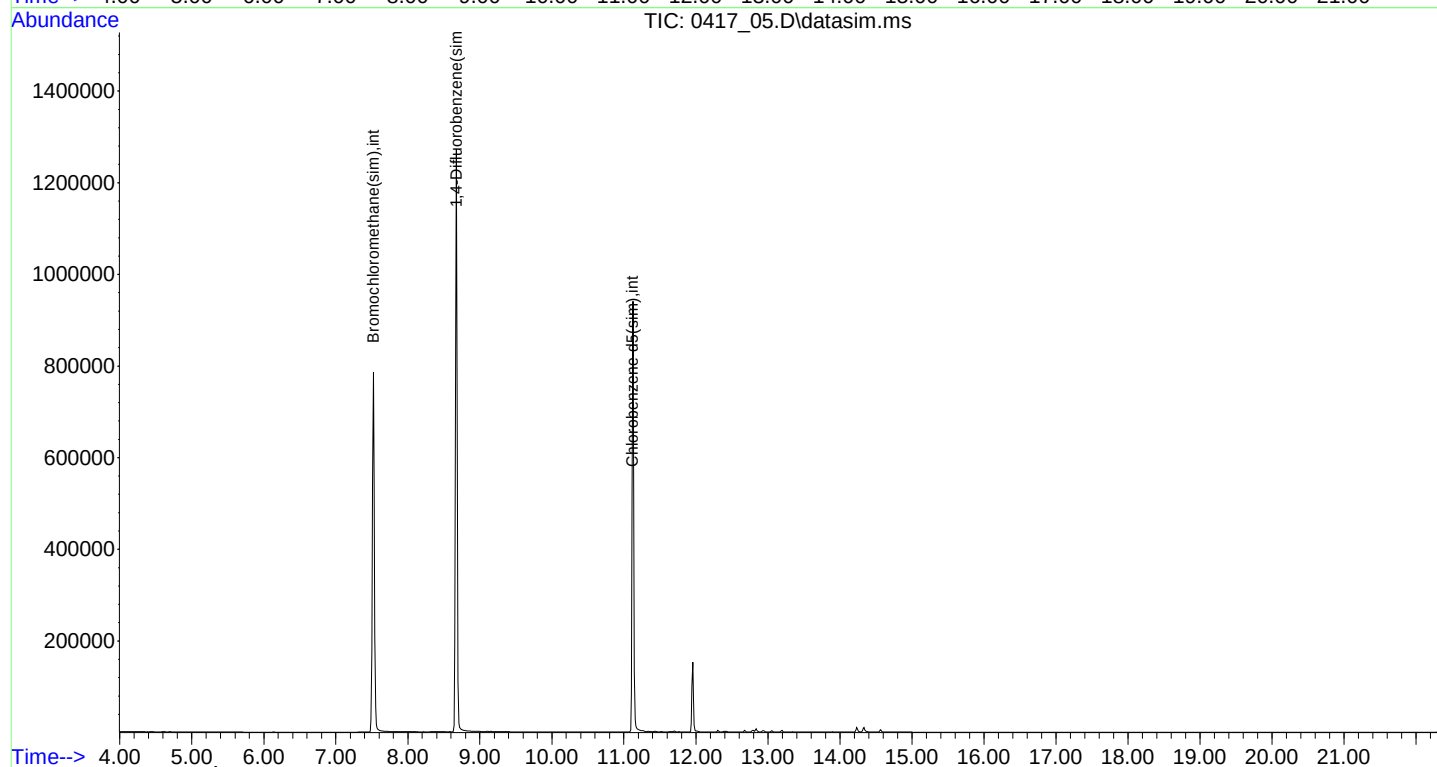
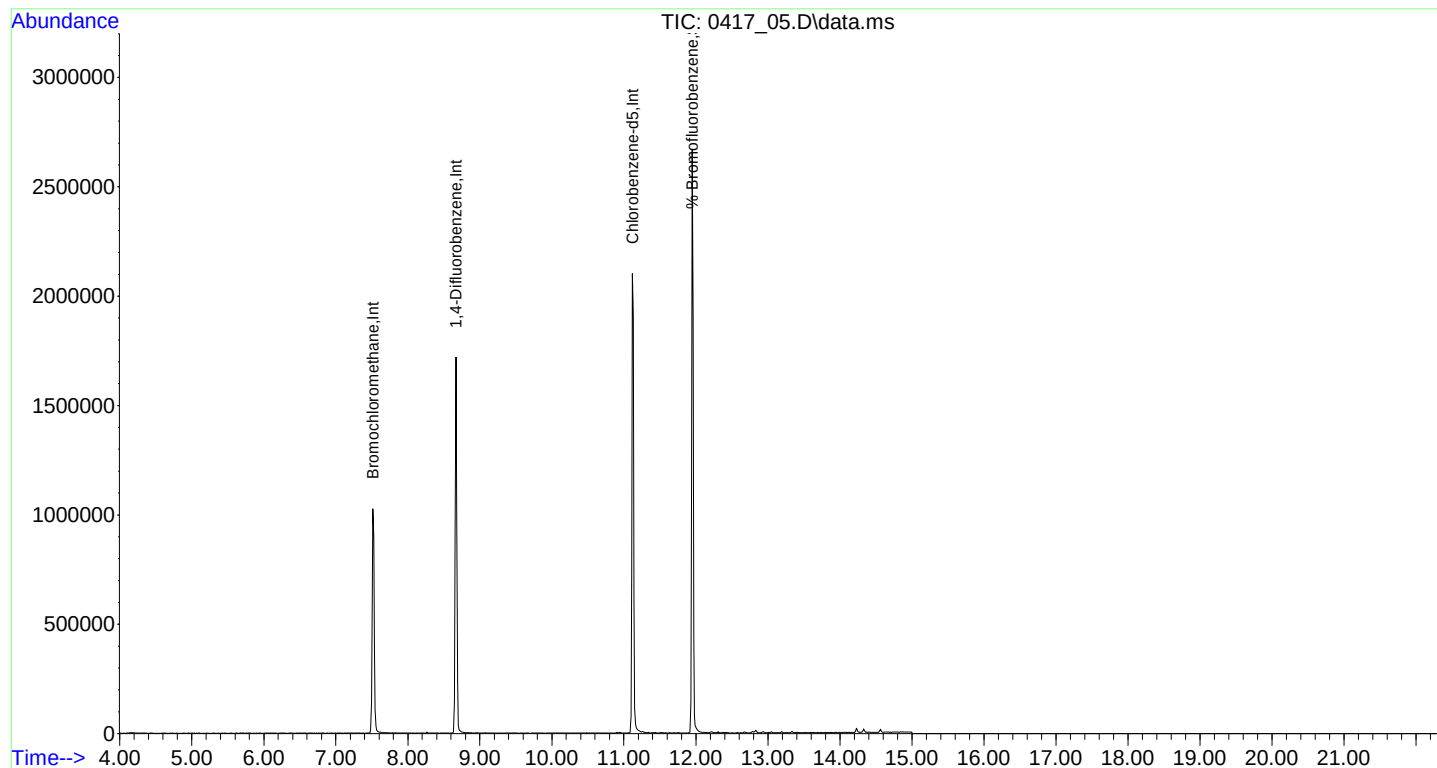
Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_05.D
 Acq On : 17 Apr 2023 10:42 am
 Operator :
 Client ID : CN84184 BLANK
 Lab ID : CN84184 BLANK
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 17 13:28:47 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	SV-4 DUP
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84184 DUP</u>	
Canister:	<u>28605</u>	Lab File ID:	<u>0417_13.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>04/14/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/17/23</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.447		0.202	0.202	r
74-87-3	Chloromethane	0.711		0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	40.7	S	0.531	0.531	r
67-64-1	Acetone	15.8	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.198		0.178	0.178	r
67-63-0	Isopropylalcohol	1.40	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.718		0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.707		0.339	0.339	r
110-54-3	Hexane	0.442	S	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.523		0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.645		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	1.08		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.465		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CN84184 DUP</u>
Canister:	<u>28605</u>	Lab File ID:	<u>0417_13.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>04/14/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>04/17/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.048		0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.349		0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

Data Path : H:\AIR2023\CHEM20\04APR\17\
 Data File : 0417_13.D
 Acq On : 17 Apr 2023 3:54 pm
 Operator :
 Client ID : SV-4 DUP
 Lab ID : CN84184 DUP
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 18 12:27:07 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Apr 11 10:01:36 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.525	130	304704	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.680	114	1128756	10.000	ng	0.00
54) Chlorobenzene-d5	11.130	82	510964	10.000	ng	0.00
81) Bromochloromethane(sim)	7.530	130	338683	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.680	114	1127154	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.130	82	510964	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.950	95	727801	10.430	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	4.160	85	32119	0.447	ppbv	95
4) Chloromethane	4.311	50	27381	0.711	ppbv	88
11) Ethanol	5.120	45	565569	40.680	ppbv#	81
12) Acetone	5.497	43	1106371	15.804	ppbv	99
13) Trichlorofluoromethane	5.605	101	15276	0.198	ppbv	97
14) Isopropylalcohol	5.691	45	88055	1.404	ppbv#	91
17) Methylene Chloride	6.135	49	18298	0.346	ppbv	96
20) Carbon Disulfide	6.359	76	49831	0.717	ppbv	96
26) Methyl Ethyl Ketone	7.148	43	75571	0.707	ppbv	98
28) Hexane	7.525	57	28758	0.442	ppbv	94
30) Ethyl acetate	7.535	61	1745	0.108	ppbv#	88
35) Carbon Tetrachloride	8.589	117	3230	0.049	ppbv	91
44) Heptane	9.234	43	51273	0.523	ppbv#	86
46) 4-Methyl-2-pentanone(M...)	9.609	43	82671	0.645	ppbv#	93
49) Toluene	10.143	91	128525	1.078	ppbv	99
53) Tetrachloroethene	10.774	166	29681	0.465	ppbv	98
58) m,p-Xylene	11.427	91	42574	0.392	ppbv	98
82] 1,2-Dichlorotetrafluor...	4.408	85	1677	0.022	ppbv#	80
83] Vinyl Chloride(sim)	4.522	62	1411	0.040	ppbv	94
84] Bromomethane(sim)	4.882	94	420	0.014	ppbv#	77
85] Trichlorofluoromethane...	5.610	101	16226	0.202	ppbv#	98
86] 1,2-Dichloroethane(sim)	8.066	62	952	0.017	ppbv#	65
87] 1,1,1-Trichloroethane(...	8.228	97	6333	0.085	ppbv#	95
88] Benzene(sim)	8.498	78	19794	0.193	ppbv#	90
89] Carbon Tetrachloride(sim)	8.595	117	3196	0.048	ppbv	99
90] 1,1-Dichloroethene(sim)	6.031	61	642	0.010	ppbv#	58
91] Trichlorotrifluoroetha...	6.313	101	3885	0.061	ppbv#	99
92] Trans-1,2-Dichloroethe...	6.754	61	404	0.007	ppbv#	38
93] 1,1-Dichloroethane(sim)	6.894	63	498	0.007	ppbv#	58
94] Cis-1,2-Dichloroethene...	7.410	61	221	0.004	ppbv#	27
95] Chloroform(sim)	7.603	83	9146	0.129	ppbv	97
97] 1,2-dichloropropane(sim)	8.979	63	3701	0.071	ppbv	94
98] Bromodichloromethane(sim)	9.110	83	823	0.011	ppbv#	26
99] Trichloroethene(sim)	9.104	130	620	0.011	ppbv#	85
100] 1,4-Dioxane(sim)	9.132	88	826	0.039	ppbv#	1
101] cis-1,3-Dichloropropen...	9.586	75	184	0.003	ppbv#	59
103] Dibromochloromethane(sim)	10.401	129	231	0.003	ppbv	90
104] 1,2-Dibromoethane(EDB)...	10.541	107	192	0.003	ppbv#	47
105] Tetrachloroethene(sim)	10.779	166	35088	0.420	ppbv	98
107] Bromoform(sim)	11.515	173	272	0.004	ppbv	96
108] m,p-Xylene(sim)	11.427	91	42697	0.349	ppbv	99
109] 1,1,2,2-Tetrachloroeth...	11.699	83	1023	0.010	ppbv#	71

Data Path : H:\AIR2023\CHEM20\04APR\17\
Data File : 0417_13.D
Acq On : 17 Apr 2023 3:54 pm
Operator :
Client ID : SV-4 DUP
Lab ID : CN84184 DUP
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 18 12:27:07 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration

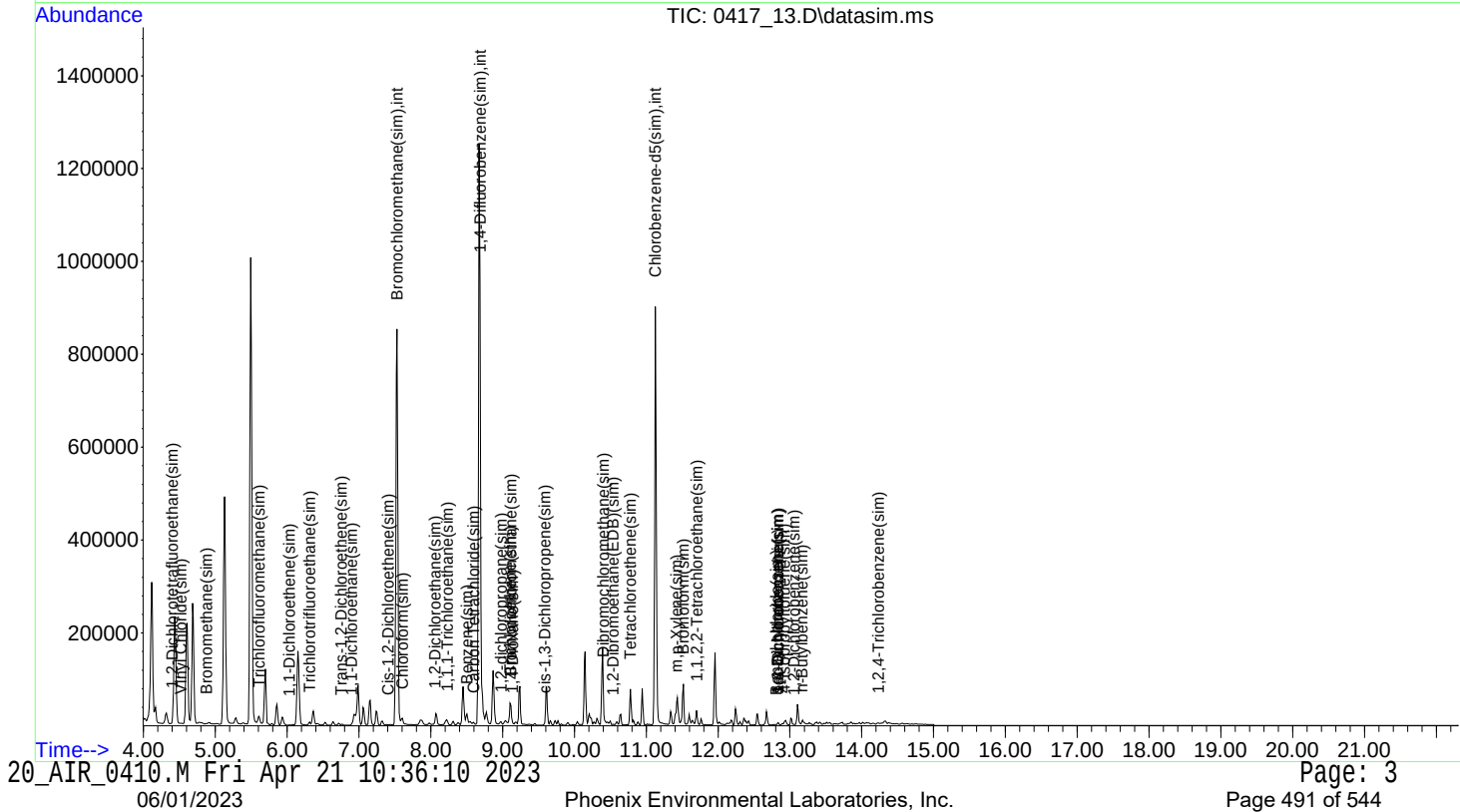
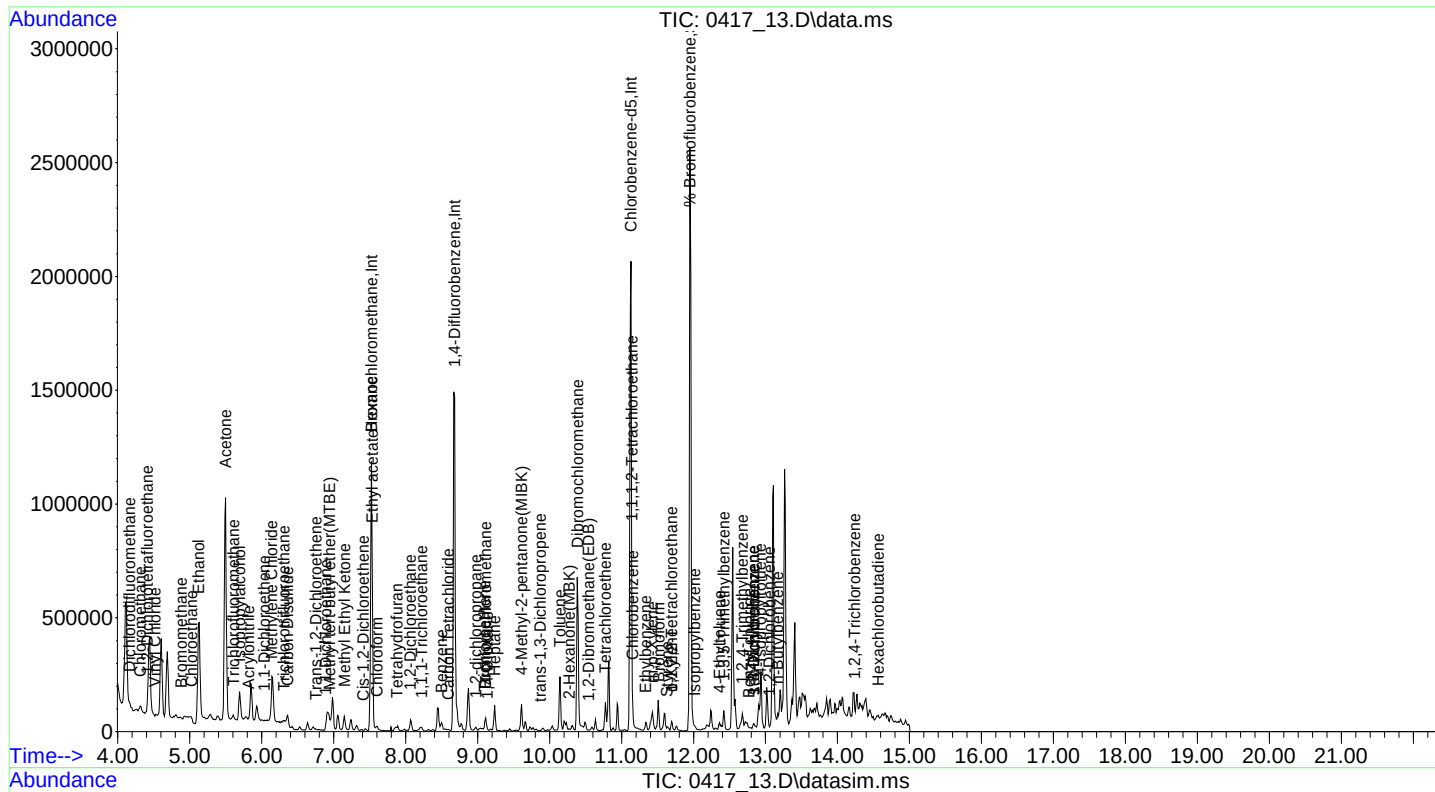
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113]	1,3-Dichlorobenzene(sim)	12.838	146	3485	0.030	ppbv#	91
114]	1,4-Dichlorobenzene(sim)	12.832	146	2977	0.026	ppbv#	55
115]	sec-Butylbenzene(sim)	12.838	105	1462	0.006	ppbv	77
116]	4-Isopropyltoluene(sim)	12.924	119	5735	0.026	ppbv#	89
117]	1,2-Dichlorobenzene(sim)	13.053	146	781	0.007	ppbv#	76
118]	n-Butylbenzene(sim)	13.171	91	2990	0.017	ppbv#	73
119]	1,2,4-Trichlorobenzene...	14.233	180	1242	0.022	ppbv	98

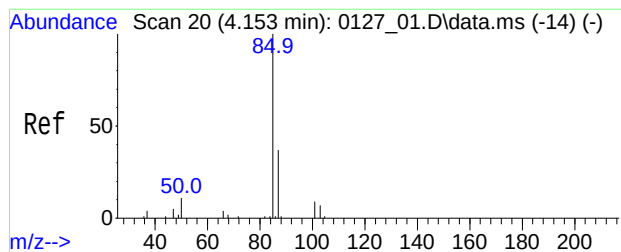
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

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Data Path   : H:\AIR2023\CHEM20\04APR\17\  
Data File   : 0417_13.D  
Acq On      : 17 Apr 2023    3:54 pm  
Operator    :  
Client ID   : SV-4 DUP  
Lab ID      : CN84184 DUP  
ALS Vial    : 9    Sample Multiplier: 1
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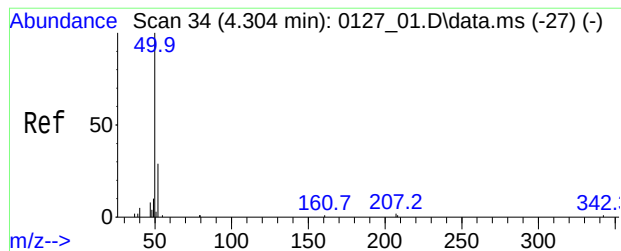
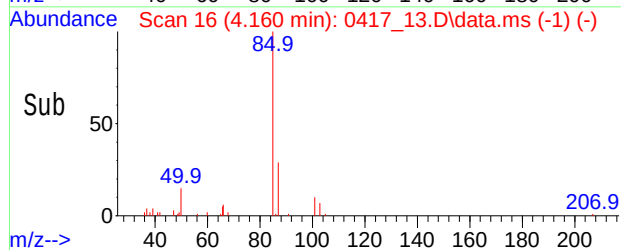
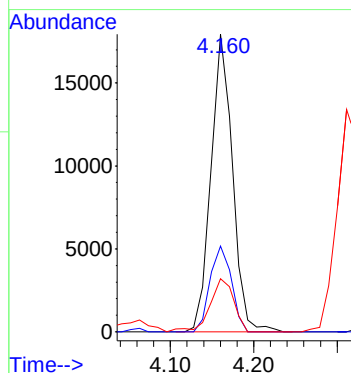
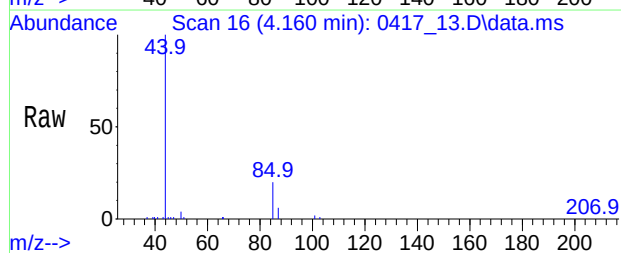
Quant Time: Apr 18 12:27:07 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0410.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 11 10:01:36 2023
Response via : Initial Calibration





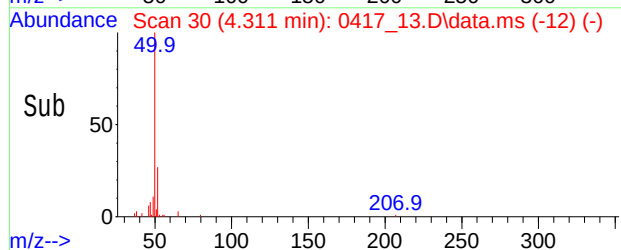
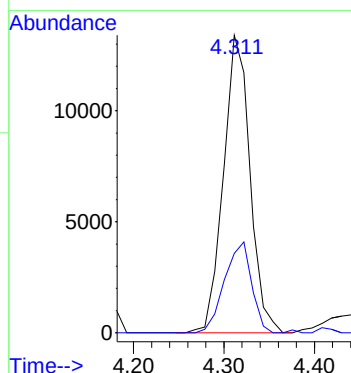
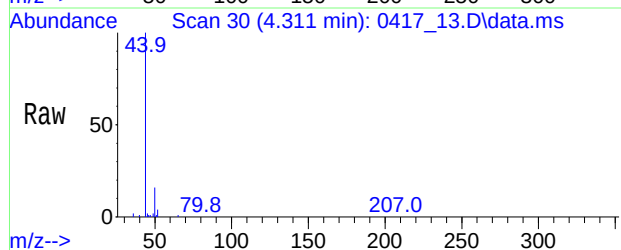
#3
Dichlorodifluoromethane
Conc: 8\$ 0.447 ppbv
RT: 4.160 min Scan# 16
Delta R.T. -0.011 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

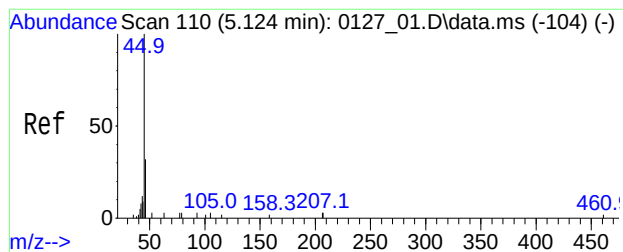
Tgt Ion	Ratio	Lower	Upper
85	100		
87	28.6	25.1	37.7
50	19.7	18.1	27.1



#4
Chloromethane
Conc: 8\$ 0.711 ppbv
RT: 4.311 min Scan# 30
Delta R.T. -0.011 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

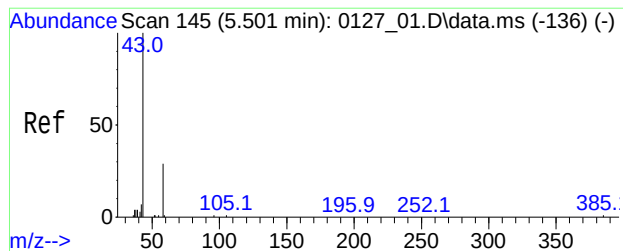
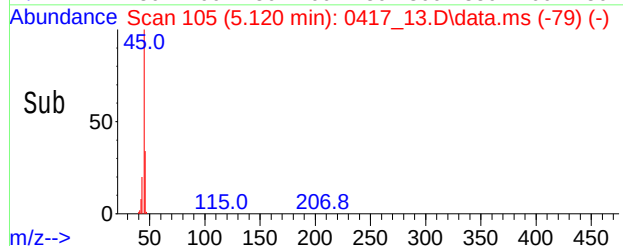
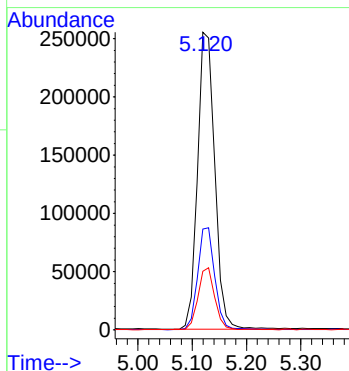
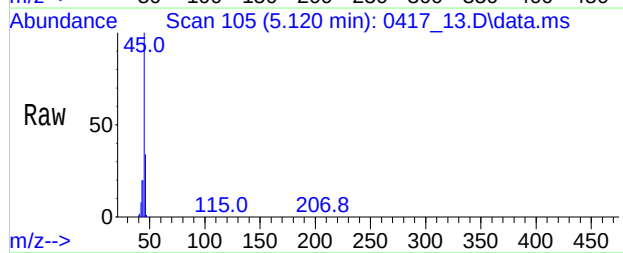
Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.1	18.1	58.1





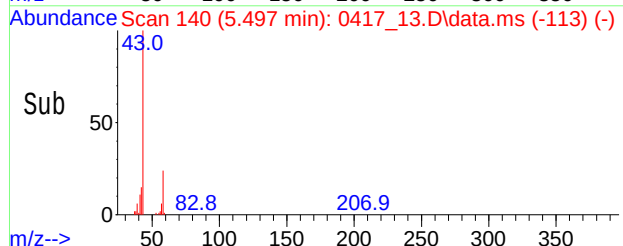
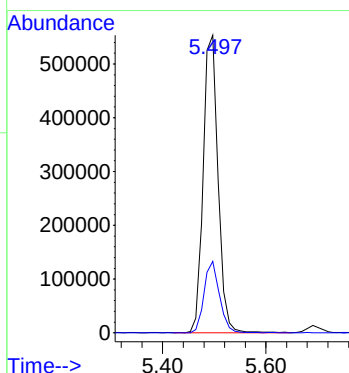
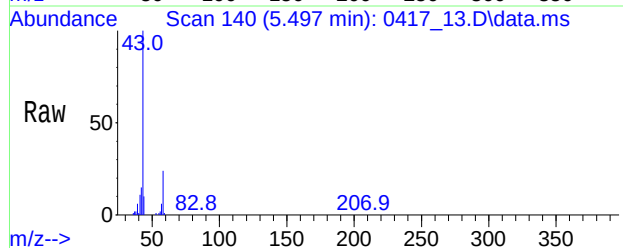
#11
Ethanol
Conc: 8\$ 40.680 ppbv
RT: 5.120 min Scan# 105
Delta R.T. -0.021 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

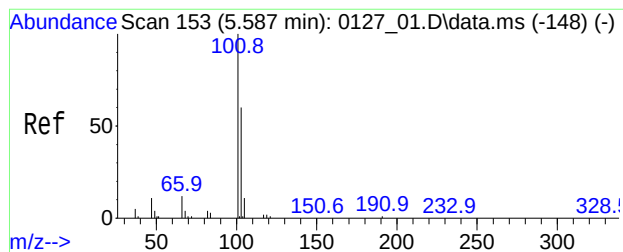
Tgt Ion	Ratio	Lower	Upper
45	100		
46	34.2	25.1	37.7
43	20.6	31.4	47.2#



#12
Acetone
Conc: 8\$ 15.804 ppbv
RT: 5.497 min Scan# 140
Delta R.T. -0.011 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

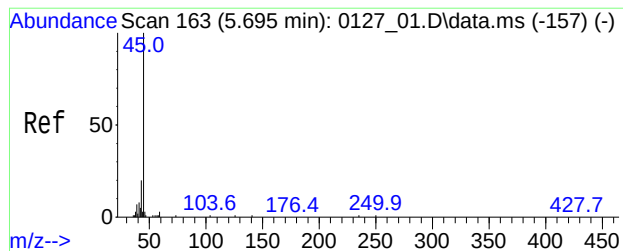
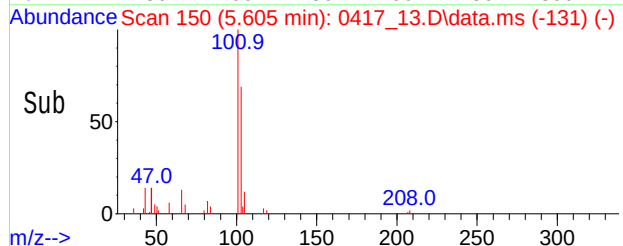
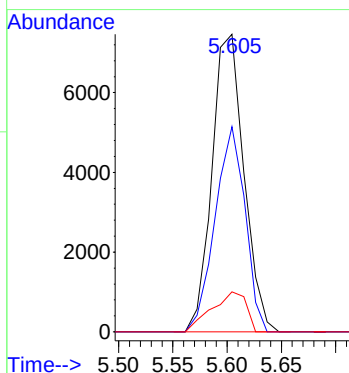
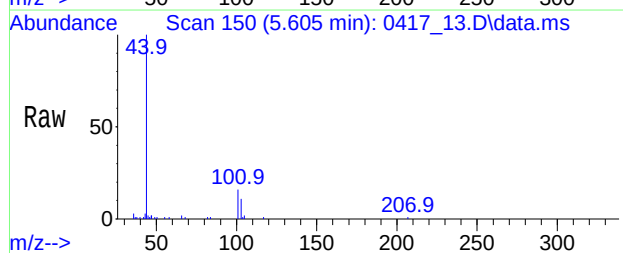
Tgt Ion	Ratio	Lower	Upper
43	100		
58	25.0	20.6	30.8





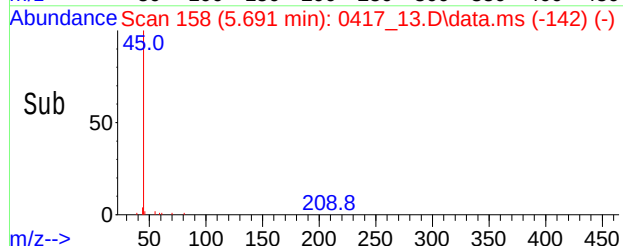
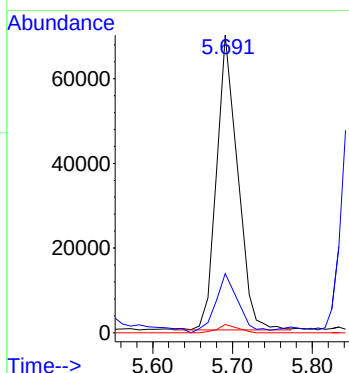
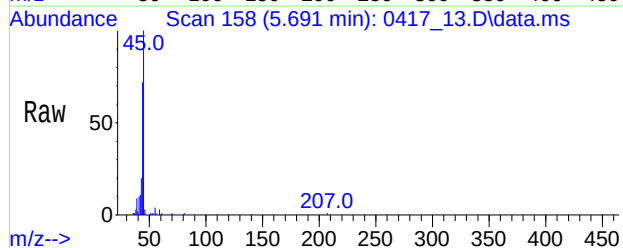
#13
Trichlorofluoromethane
Conc: 8\$ 0.198 ppbv
RT: 5.605 min Scan# 150
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

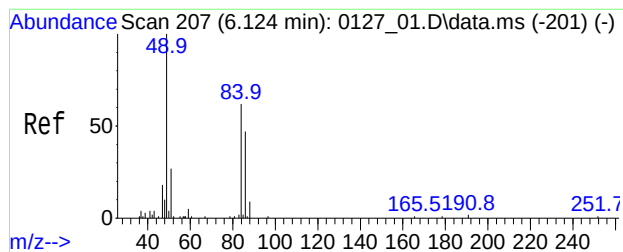
Tgt Ion:	101	Resp:	15276
Ion Ratio	Lower	Upper	
101	100		
103	64.7	53.8	80.8
66	14.5	12.9	19.3



#14
Isopropylalcohol
Conc: 8\$ 1.404 ppbv
RT: 5.691 min Scan# 158
Delta R.T. -0.030 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

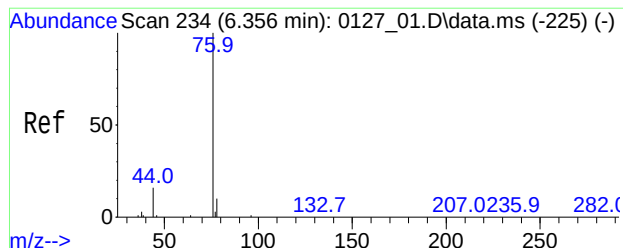
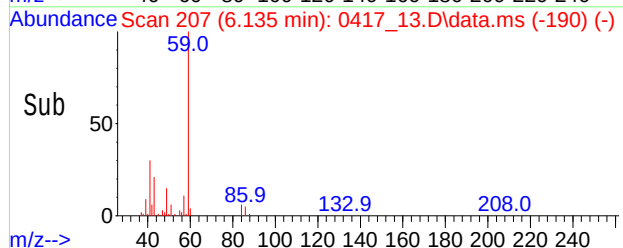
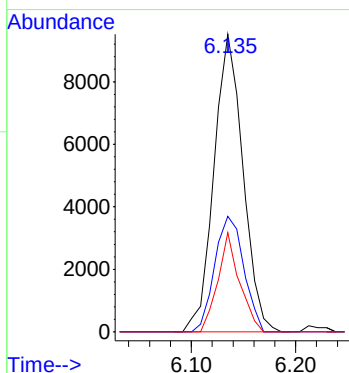
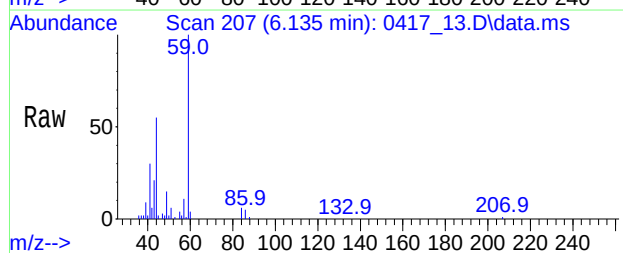
Tgt Ion:	45	Resp:	88055
Ion Ratio	Lower	Upper	
45	100		
43	24.7	15.9	23.9#
59	3.0	3.6	5.4#





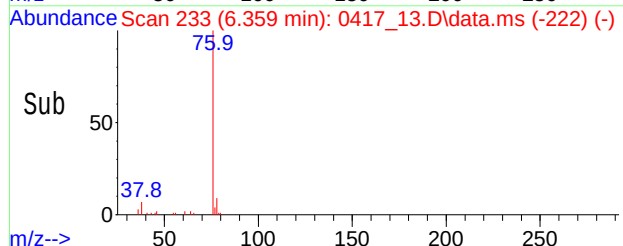
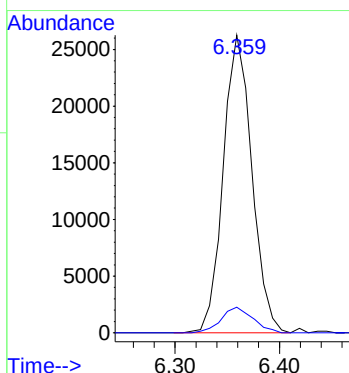
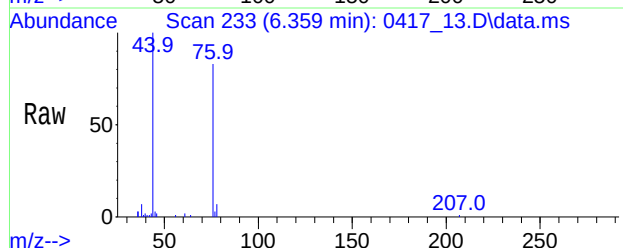
#17
Methylene Chloride
Conc: 8\$ 0.346 ppbv
RT: 6.135 min Scan# 207
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

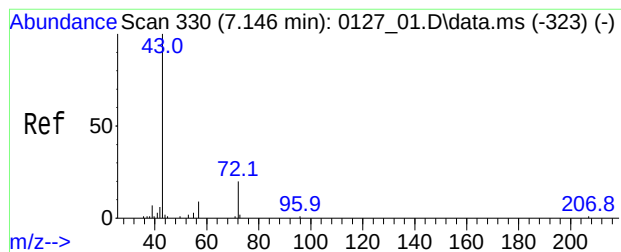
Tgt Ion:	49	Resp:	18298
Ion Ratio	Lower	Upper	
49	100		
84	38.9	34.0	51.0
86	24.9	20.7	31.1



#20
Carbon Disulfide
Conc: 8\$ 0.717 ppbv
RT: 6.359 min Scan# 233
Delta R.T. -0.009 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

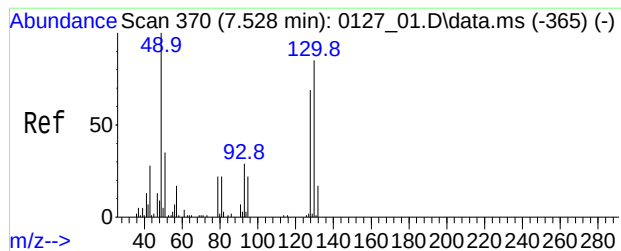
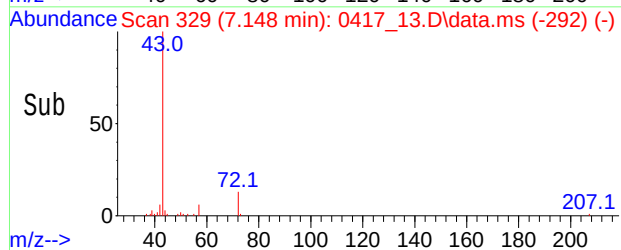
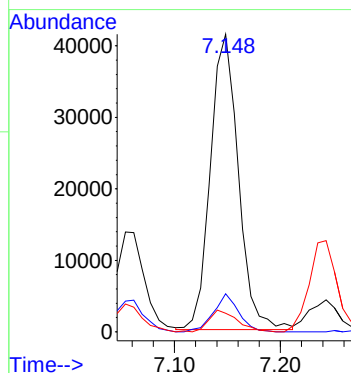
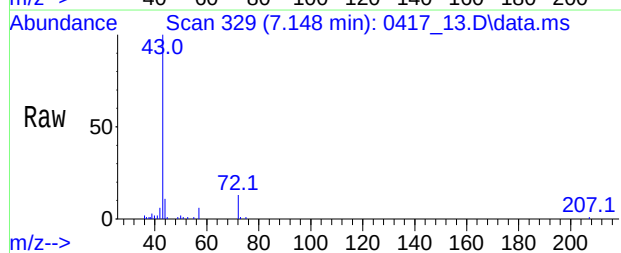
Tgt Ion:	76	Resp:	49831
Ion Ratio	Lower	Upper	
76	100		
78	9.6	6.4	9.6





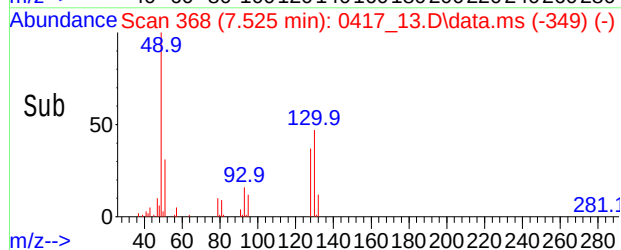
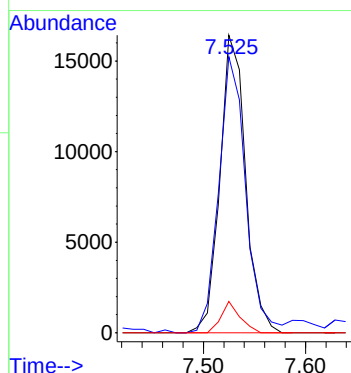
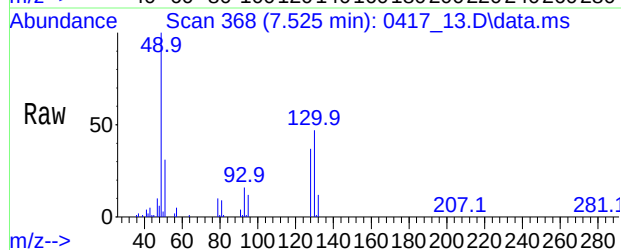
#26
Methyl Ethyl Ketone
Conc: 8\$ 0.707 ppbv
RT: 7.148 min Scan# 329
Delta R.T. -0.008 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

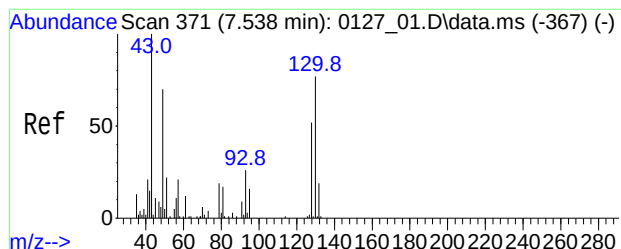
Tgt Ion	Ratio	Lower	Upper
43	100		
72	11.6	10.2	15.4
57	7.5	6.1	9.1



#28
Hexane
Conc: 8\$ 0.442 ppbv
RT: 7.525 min Scan# 368
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

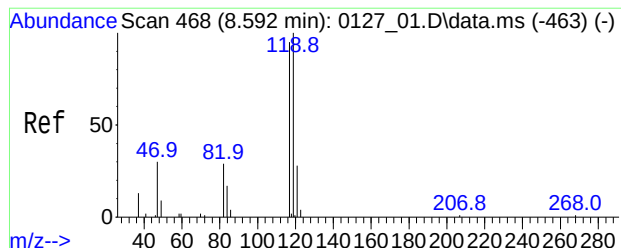
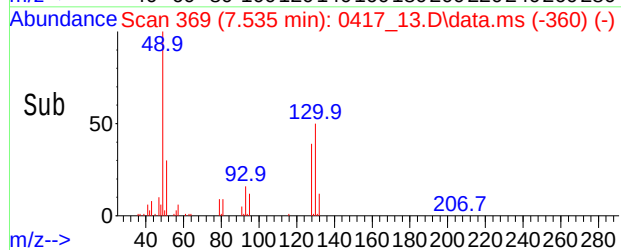
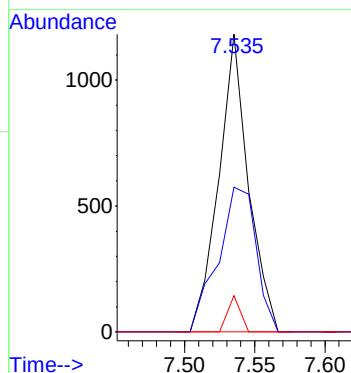
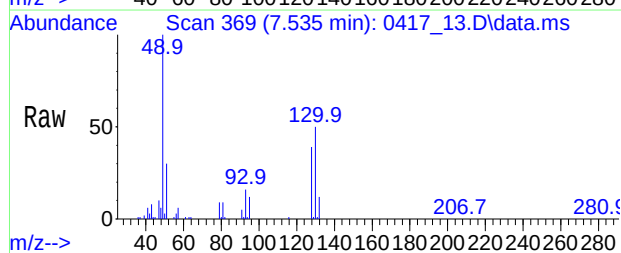
Tgt Ion	Ratio	Lower	Upper
57	100		
41	96.8	72.3	108.5
86	7.8	7.0	10.6





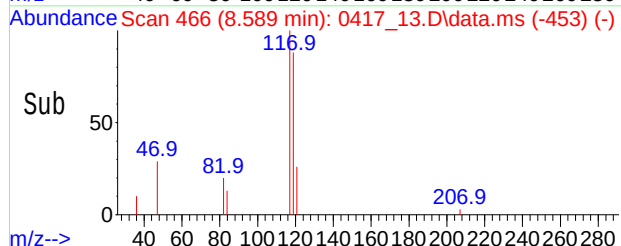
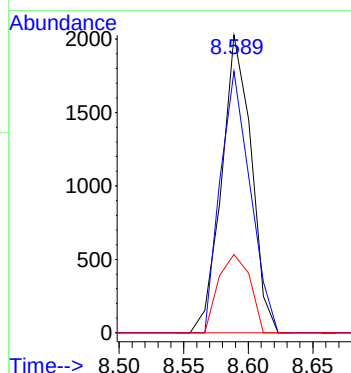
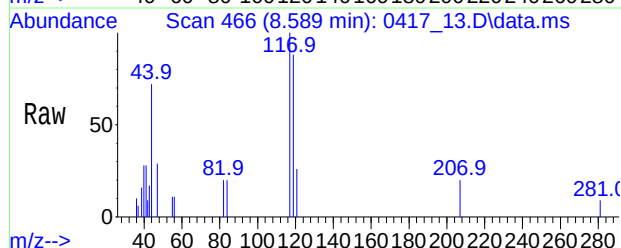
#30
Ethyl acetate
Conc: 8\$ Below Cal
RT: 7.535 min Scan# 369
Delta R.T. -0.011 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

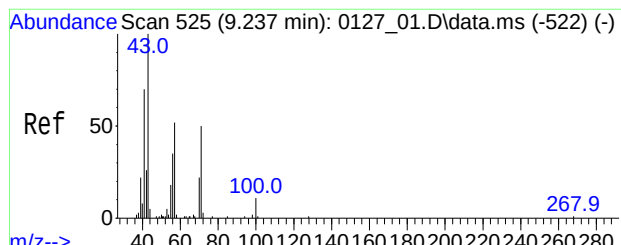
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	1745		
70	62.1	45.0	67.6	
88	5.2	12.6	19.0#	



#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.589 min Scan# 466
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

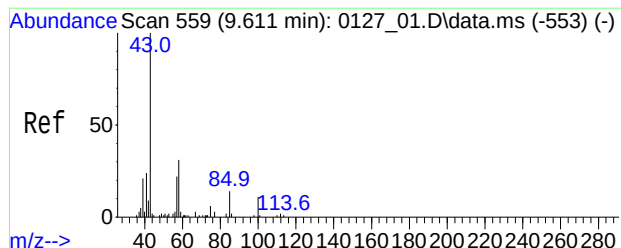
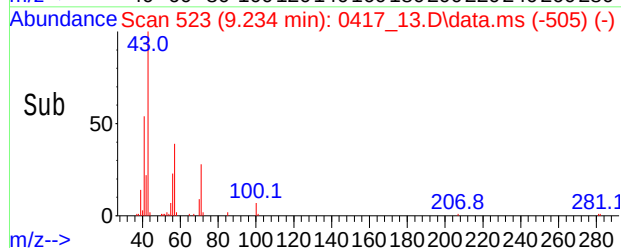
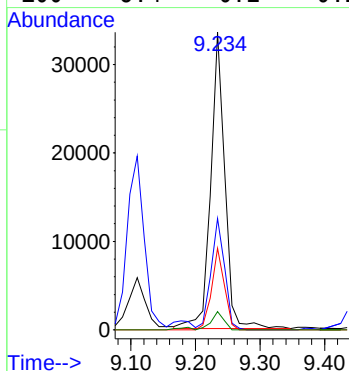
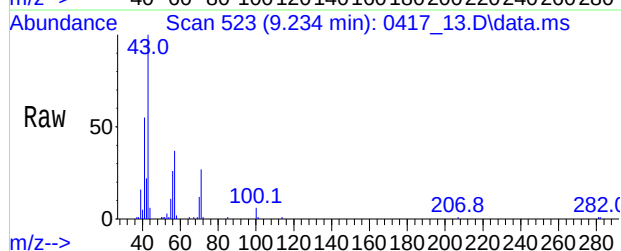
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	3230		
119	88.7	77.5	117.5	
121	28.0	12.4	52.4	





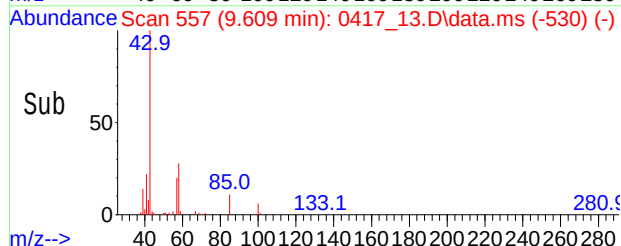
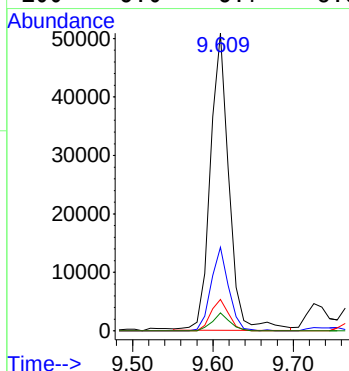
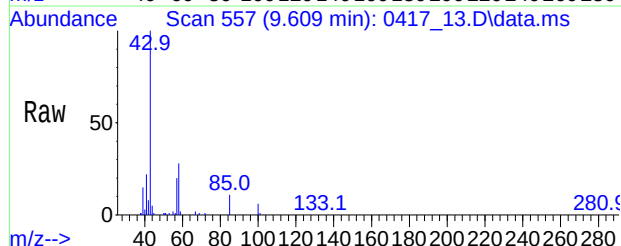
#44
Heptane
Conc: 8\$ 0.523 ppbv
RT: 9.234 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

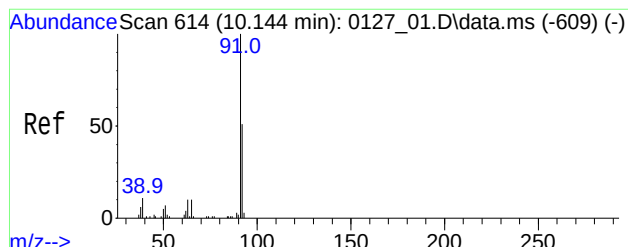
Tgt Ion	Ratio	Lower	Upper
43	100		
57	36.0	37.9	56.9#
71	24.8	24.4	36.6
100	5.4	6.2	9.2#



#46
4-Methyl-2-pentanone(MIBK)
Conc: 8\$ 0.645 ppbv
RT: 9.609 min Scan# 557
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

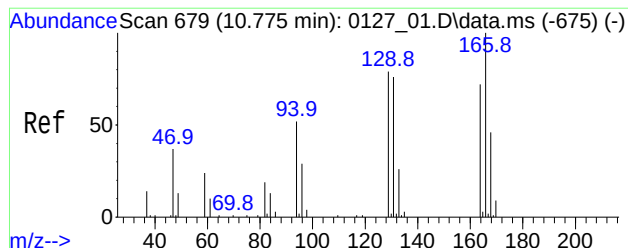
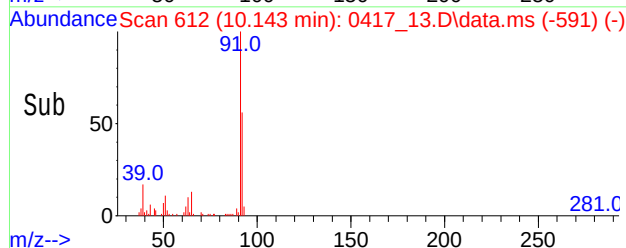
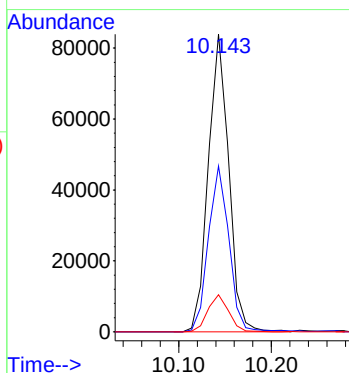
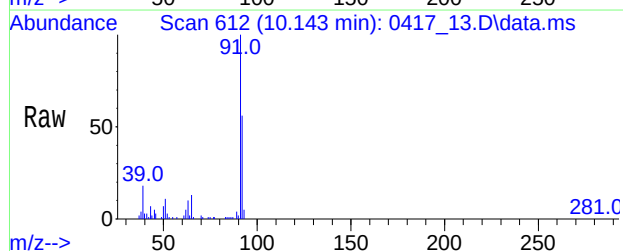
Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.5	25.4	38.2
85	9.9	8.0	12.0
100	5.6	5.7	8.5#





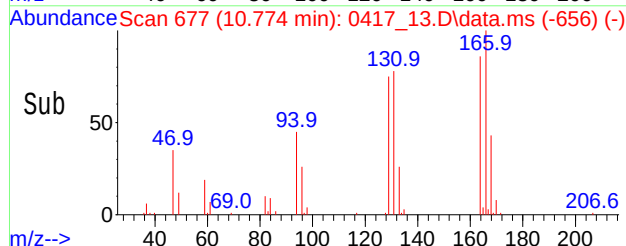
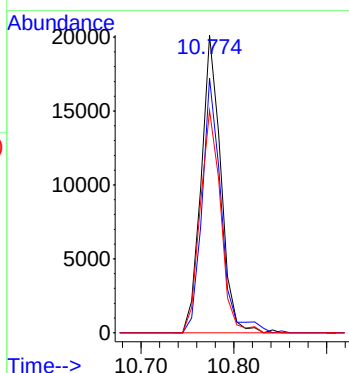
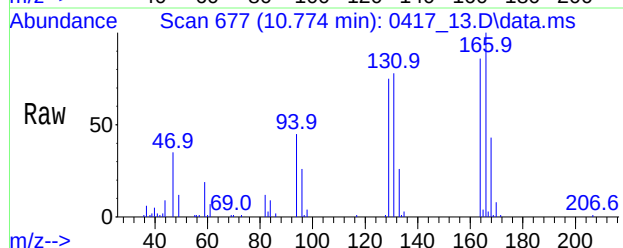
#49
Toluene
Conc: 8\$ 1.078 ppbv
RT: 10.143 min Scan# 612
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

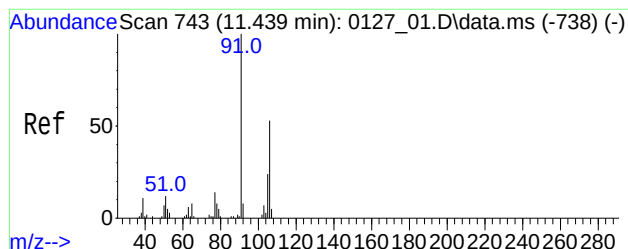
Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.5	44.8	67.2
65	12.8	10.5	15.7



#53
Tetrachloroethene
Conc: 8\$ 0.465 ppbv
RT: 10.774 min Scan# 677
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

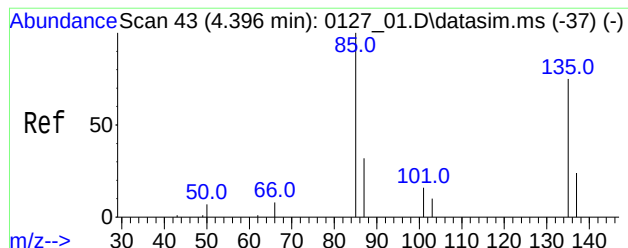
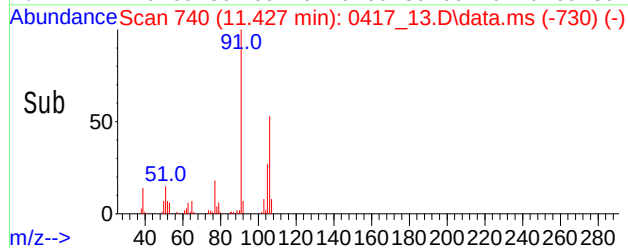
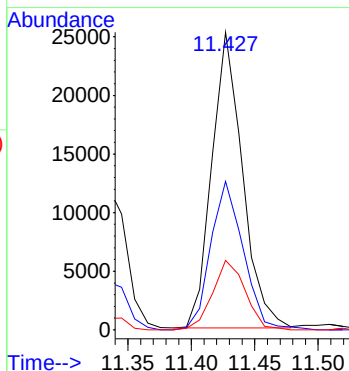
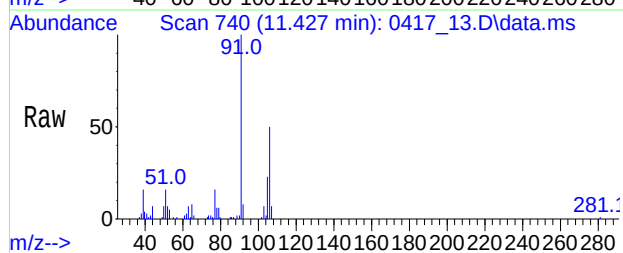
Tgt Ion	Ratio	Lower	Upper
166	100		
164	82.9	65.8	98.6
129	77.8	64.7	97.1





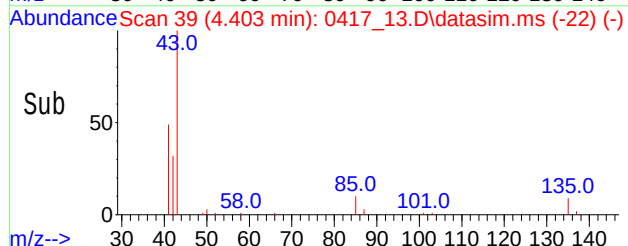
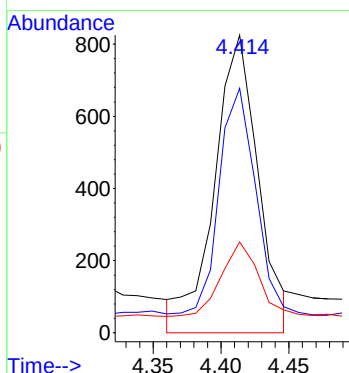
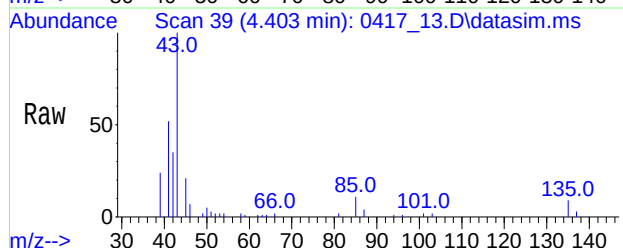
#58
m,p-Xylene
Conc: 8\$ 0.392 ppbv
RT: 11.427 min Scan# 740
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

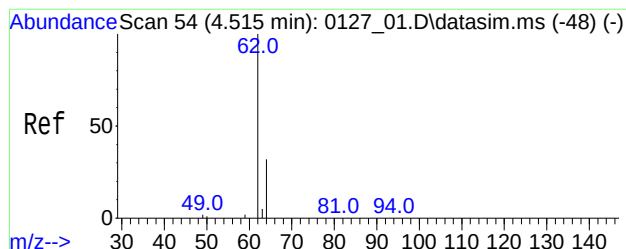
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	42574		
106	53.3	41.4	62.2	
105	25.1	19.8	29.8	



#82
1,2-Dichlorotetrafluoroethane(sim)
Conc: 8\$ Below Cal
RT: 4.408 min Scan# 39
Delta R.T. -0.011 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

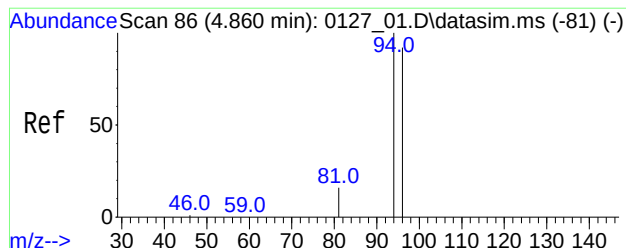
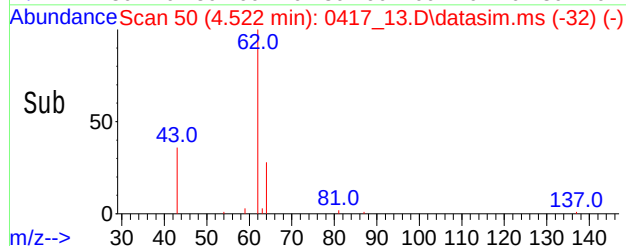
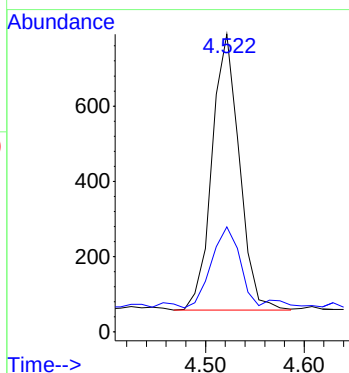
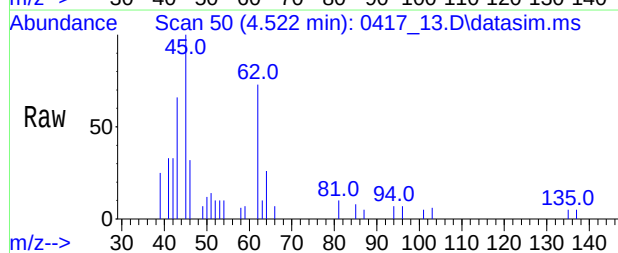
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	1677		
135	66.8	67.0	100.4#	
137	14.2	21.4	32.2#	





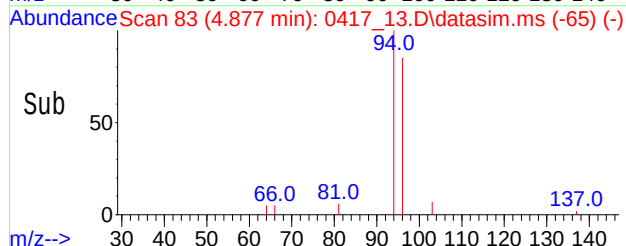
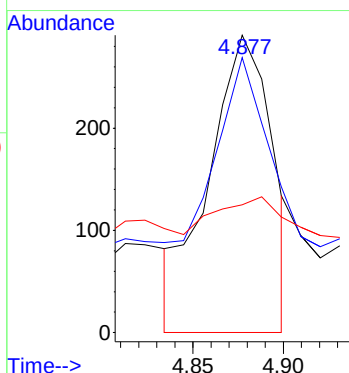
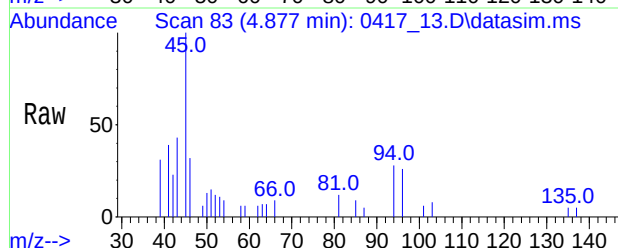
#83
Vinyl Chloride(sim)
Conc: 8\$ 0.040 ppbv
RT: 4.522 min Scan# 50
Delta R.T. -0.010 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

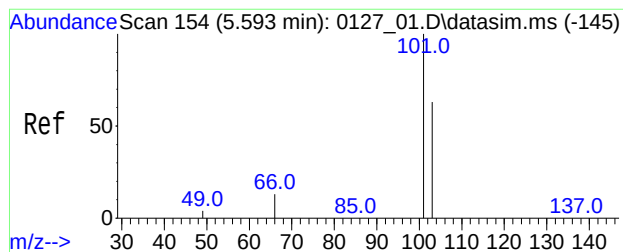
Tgt Ion: 62 Resp: 1411
Ion Ratio Lower Upper
62 100
64 32.7 23.8 35.6



#84
Bromomethane(sim)
Conc: 8\$ Below Cal
RT: 4.882 min Scan# 83
Delta R.T. -0.001 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

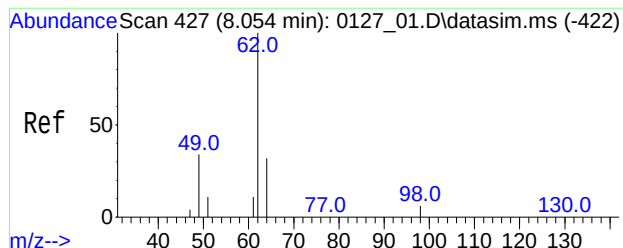
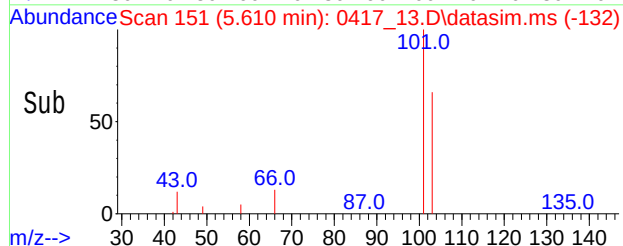
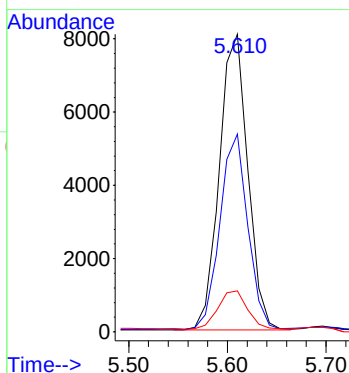
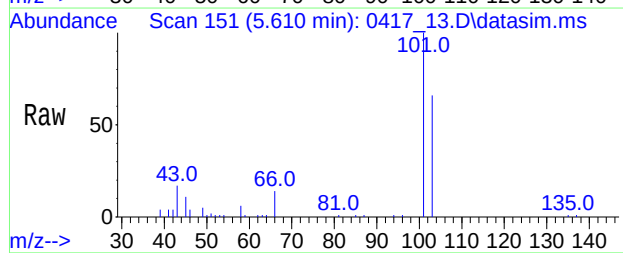
Tgt Ion: 94 Resp: 420
Ion Ratio Lower Upper
94 100
96 125.7 80.6 120.8#
81 23.3 15.0 22.6#





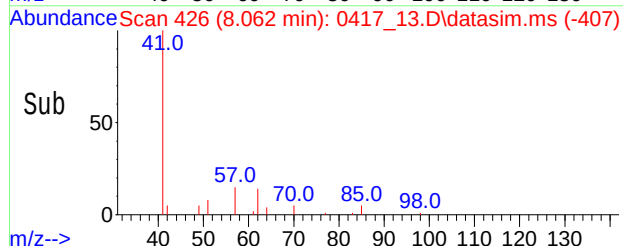
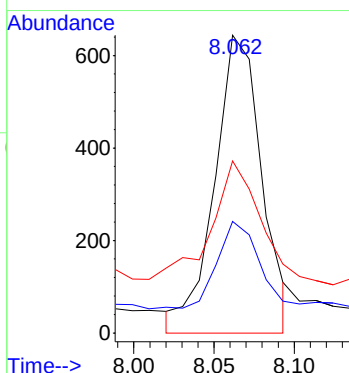
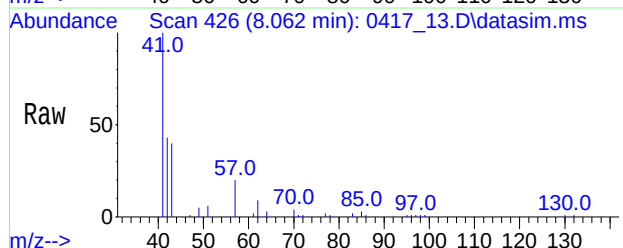
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.202 ppbv
RT: 5.610 min Scan# 151
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

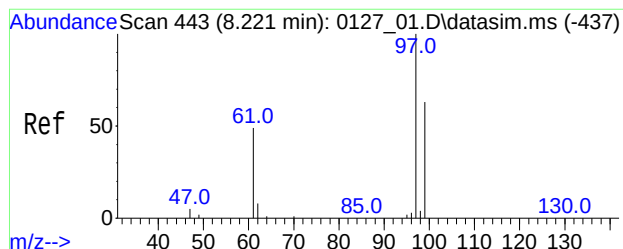
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	16226		
103	65.1	52.5	78.7	
66	14.3	18.3	18.3	



#86
1,2-Dichloroethane(sim)
Conc: 8\$ Below Cal
RT: 8.066 min Scan# 426
Delta R.T. -0.001 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

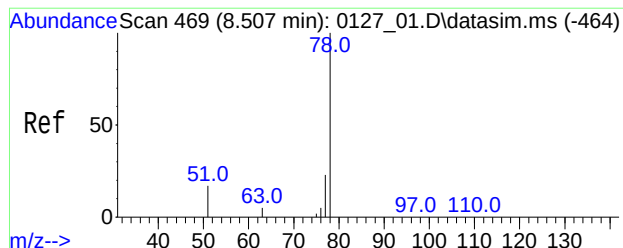
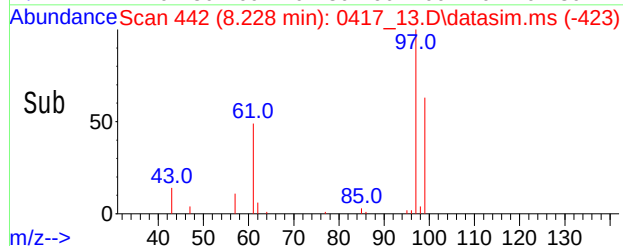
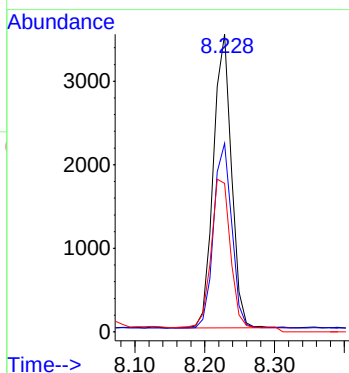
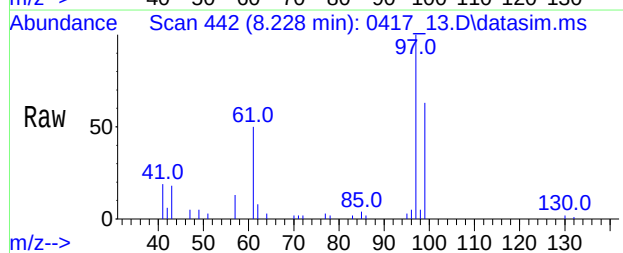
Tgt Ion	Ratio	Resp	Lower	Upper
62	100	952		
64	54.9	27.9	41.9	
49	66.8	35.5	53.3	





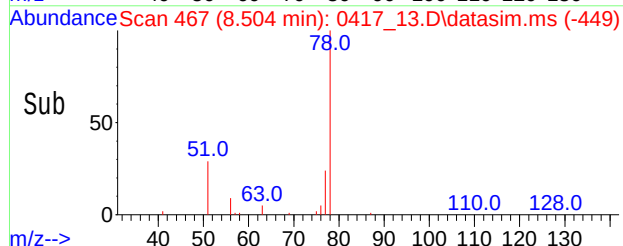
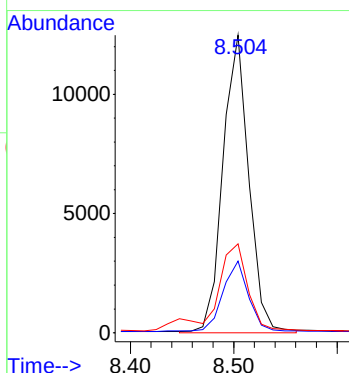
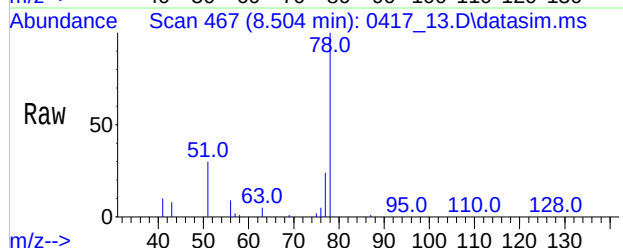
#87
1,1,1-Trichloroethane(sim)
Conc: 8\$ Below Cal
RT: 8.228 min Scan# 442
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

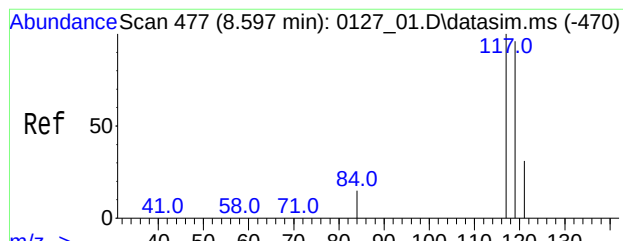
Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.9	64.4	64.4#
61	60.7	43.6	65.4



#88
Benzene(sim)
Conc: 8\$ 0.193 ppbv
RT: 8.498 min Scan# 467
Delta R.T. -0.001 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

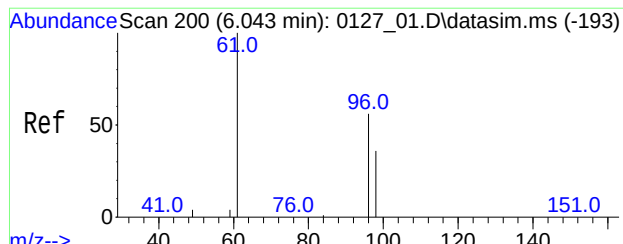
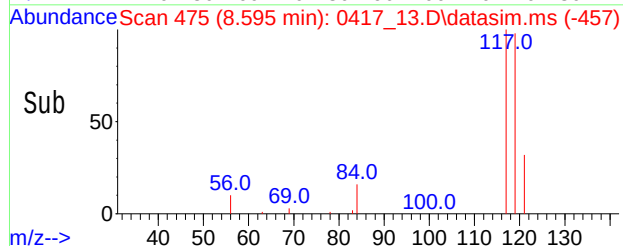
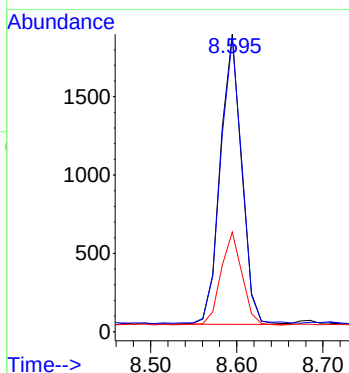
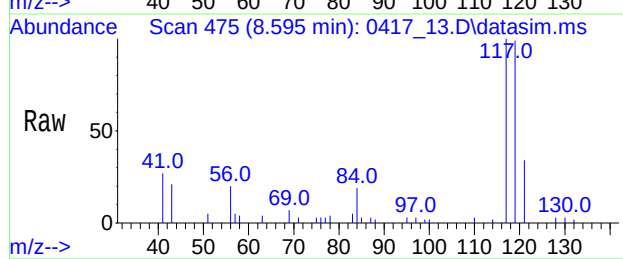
Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.0	20.0	30.0
51	37.8	24.3	36.5#





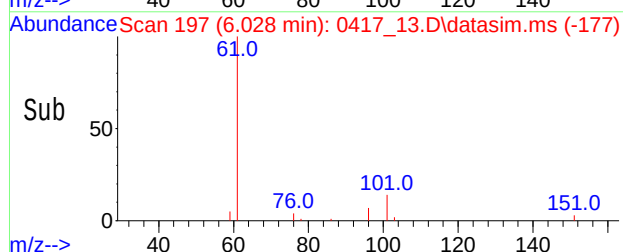
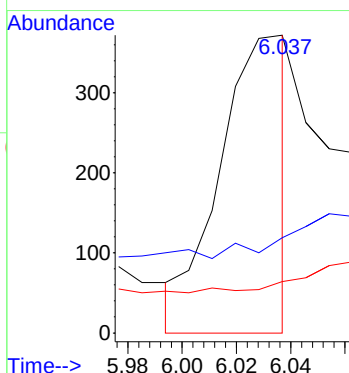
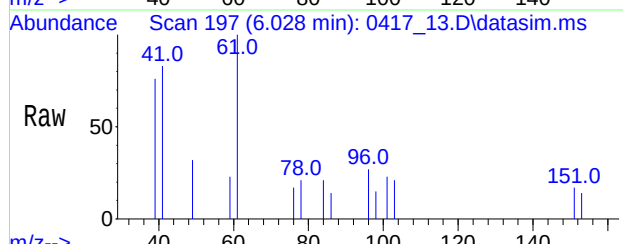
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.048 ppbv
RT: 8.595 min Scan# 475
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

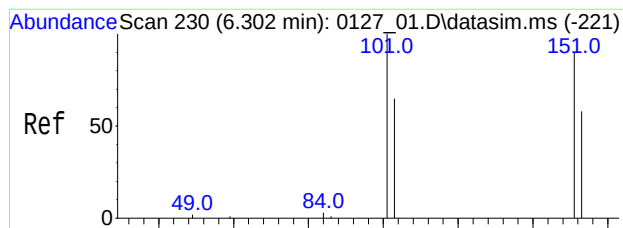
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	3196		
119	98.2		79.2	118.8
121	31.7		25.5	38.3



#90
1,1-Dichloroethene(sim)
Conc: 8\$ Below Cal
RT: 6.031 min Scan# 197
Delta R.T. -0.026 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

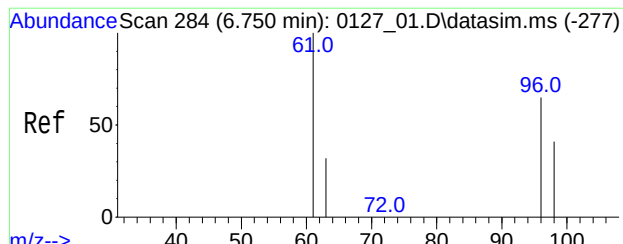
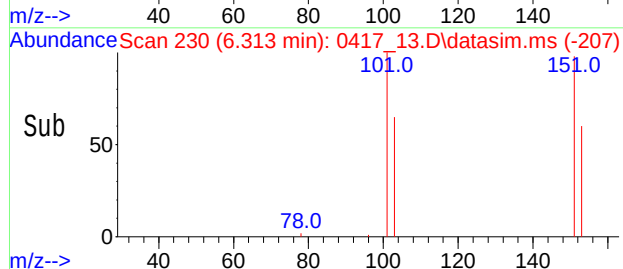
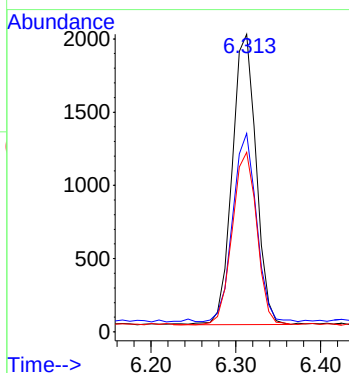
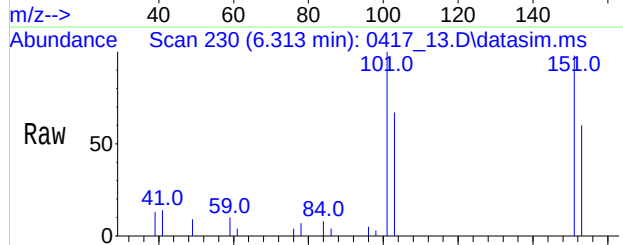
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	642		
96	28.8		39.7	59.5#
98	0.0		26.4	39.6#





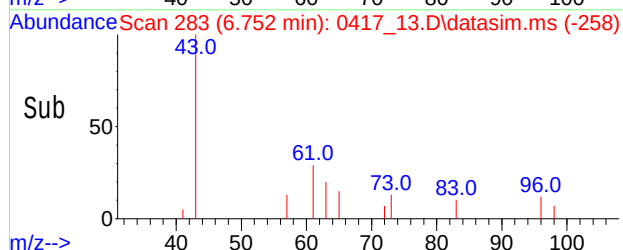
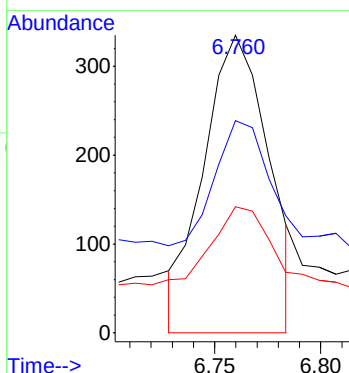
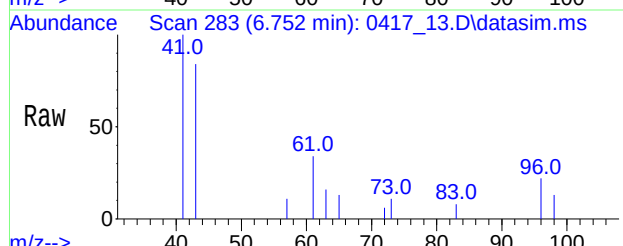
#91
Trichlorotrifluoroethane(sim)
Conc: 8\$ Below Cal
RT: 6.313 min Scan# 230
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

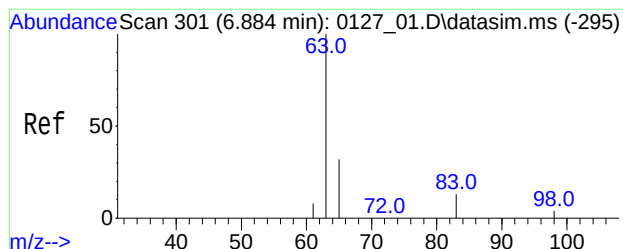
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	3885		
103	64.0		51.5	77.3
153	61.0		62.7	62.7#



#92
Trans-1,2-Dichloroethene(sim)
Conc: 8\$ Below Cal
RT: 6.754 min Scan# 283
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

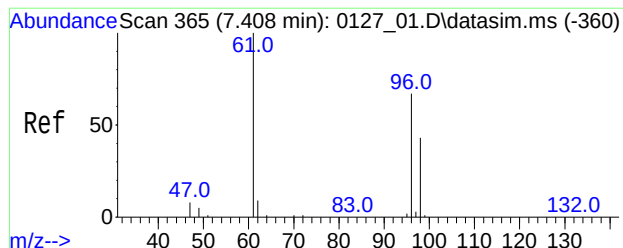
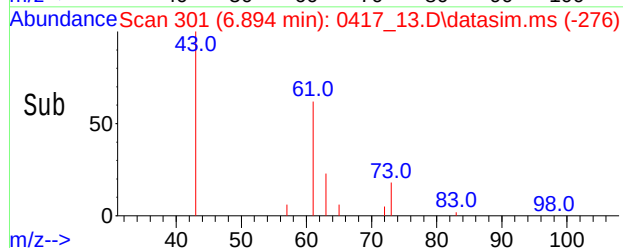
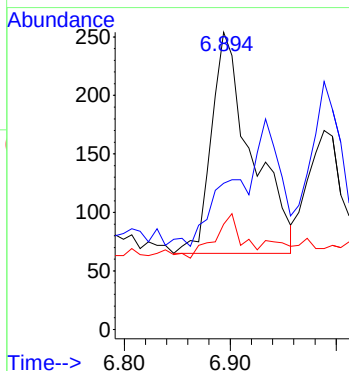
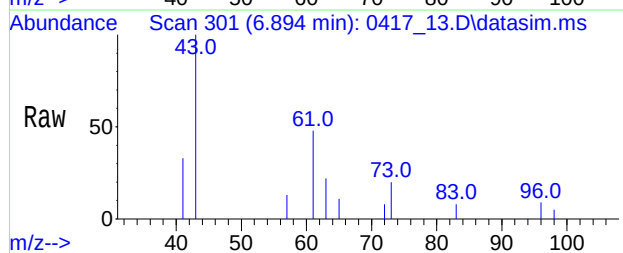
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	404		
96	99.3		43.1	64.7#
98	0.0		28.0	42.0#





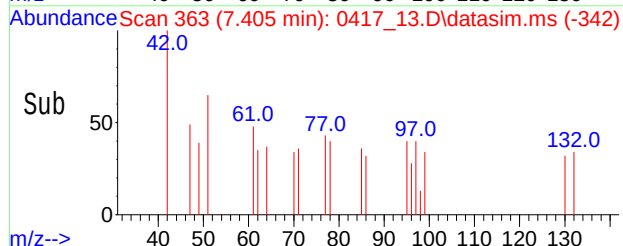
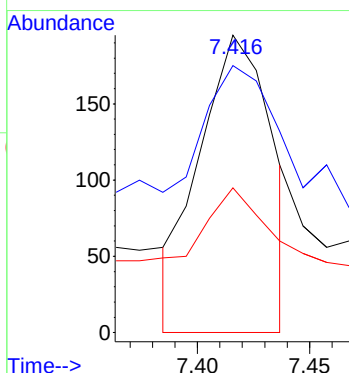
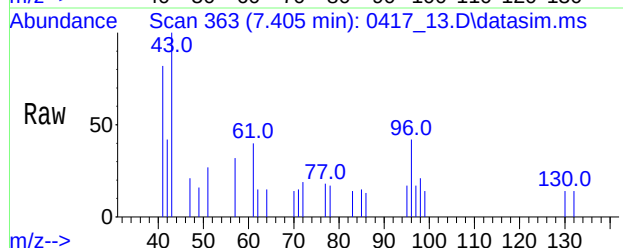
#93
1,1-Dichloroethane(sim)
Conc: 8\$ Below Cal
RT: 6.894 min Scan# 301
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

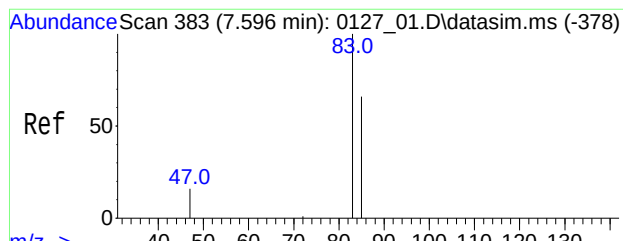
Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	24.4	36.6#
83	13.3	9.2	13.8



#94
Cis-1,2-Dichloroethene(sim)
Conc: 8\$ Below Cal
RT: 7.410 min Scan# 363
Delta R.T. -0.011 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

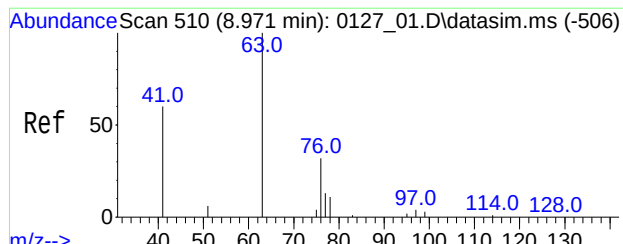
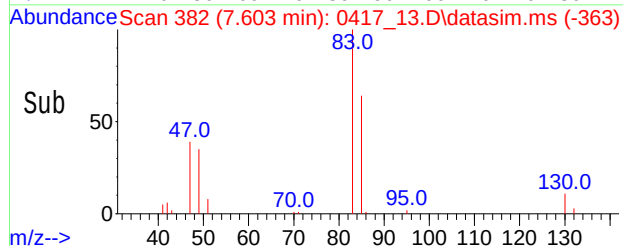
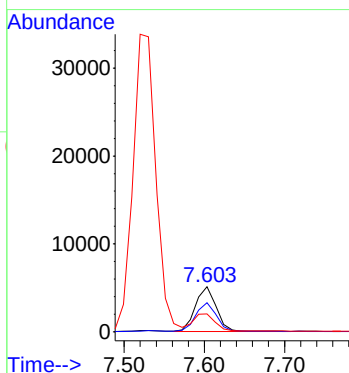
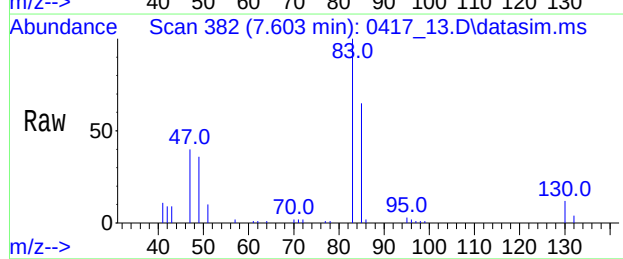
Tgt Ion	Ratio	Lower	Upper
61	100		
96	0.0	47.8	71.8#
98	0.0	30.7	46.1#





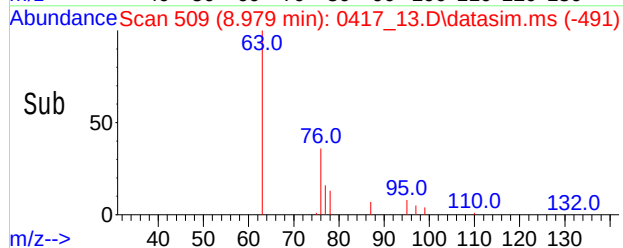
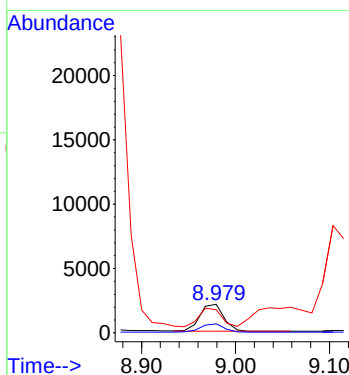
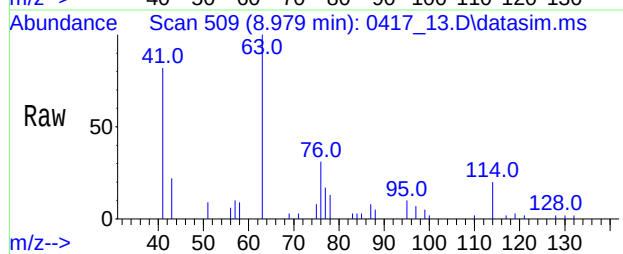
#95
Chloroform(sim)
Conc: 8\$ 0.129 ppbv
RT: 7.603 min Scan# 382
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

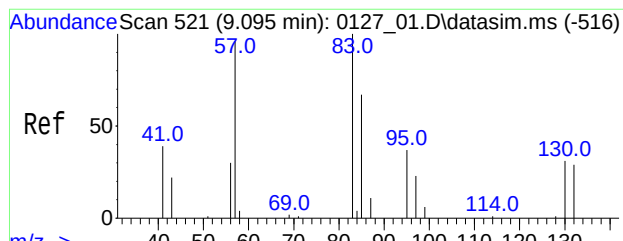
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.5	77.3
47	44.3	31.4	47.2



#97
1,2-dichloropropane(sim)
Conc: 8\$ 0.071 ppbv
RT: 8.979 min Scan# 509
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

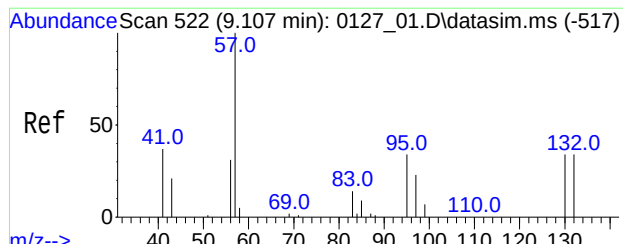
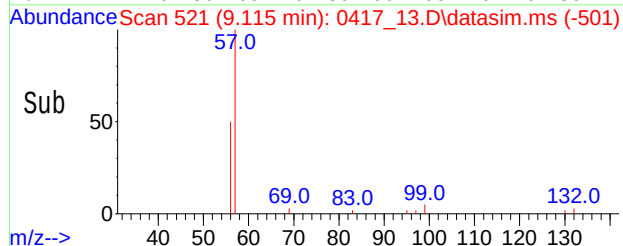
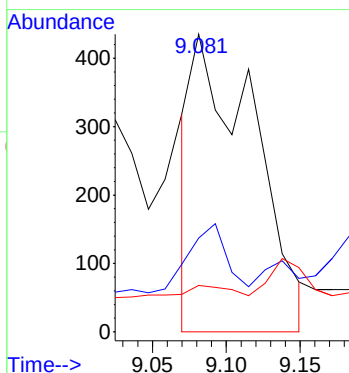
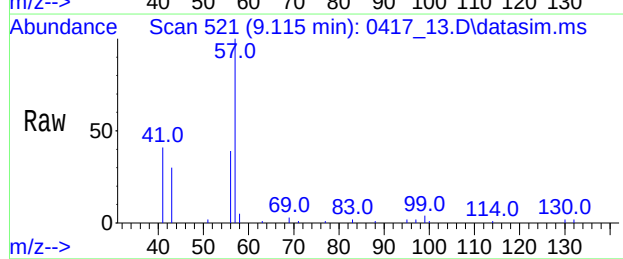
Tgt Ion	Ratio	Lower	Upper
63	100		
76	30.0	22.9	34.3
41	62.9	55.4	83.0





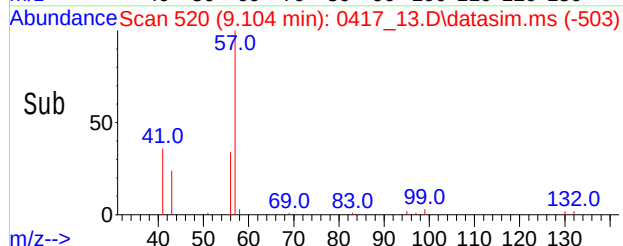
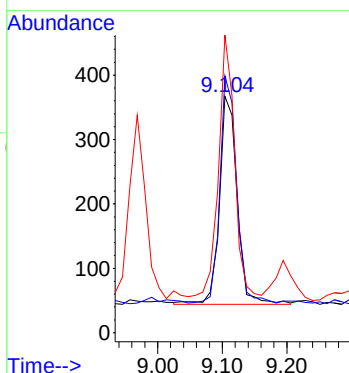
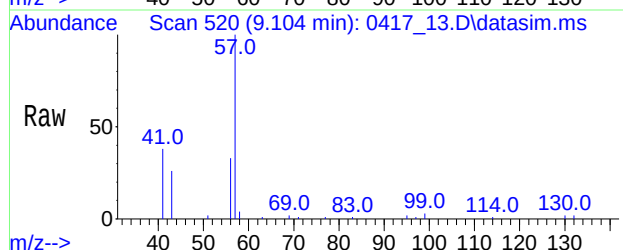
#98
Bromodichloromethane(sim)
Conc: 8\$ Below Cal
RT: 9.110 min Scan# 521
Delta R.T. 0.023 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

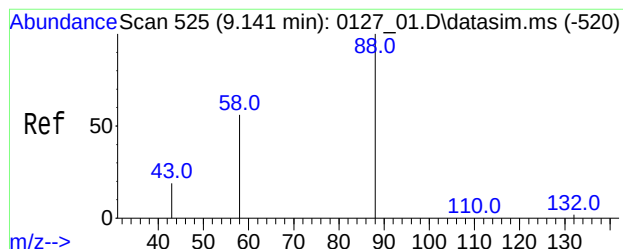
Tgt Ion	Ratio	Lower	Upper
83	100		
85	0.0	43.4	83.4#
87	0.0	0.0	29.1



#99
Trichloroethene(sim)
Conc: 8\$ Below Cal
RT: 9.104 min Scan# 520
Delta R.T. -0.011 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

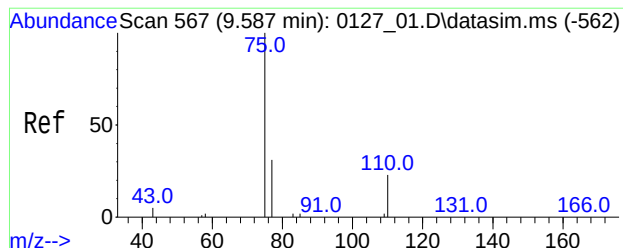
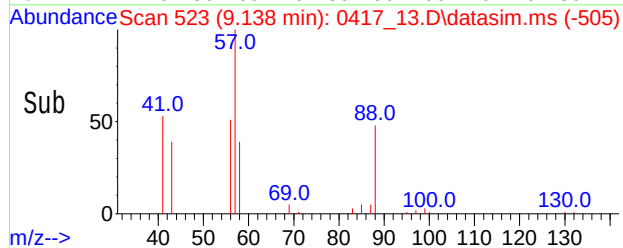
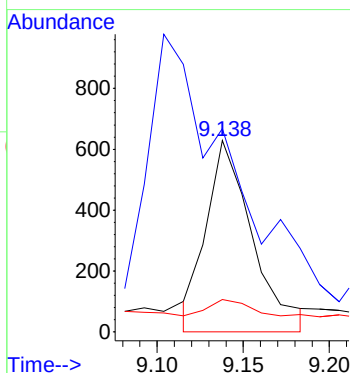
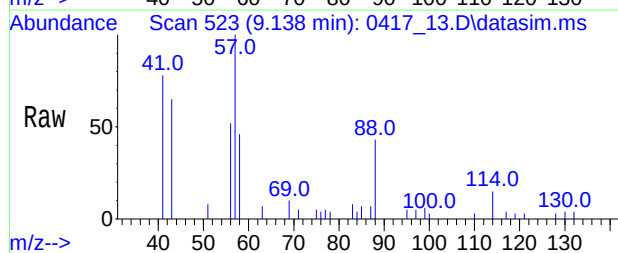
Tgt Ion	Ratio	Lower	Upper
130	100		
132	102.9	79.0	118.4
95	115.8	73.0	109.6#





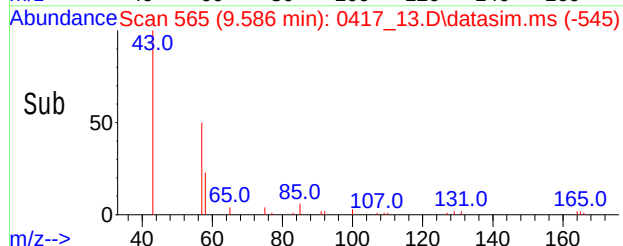
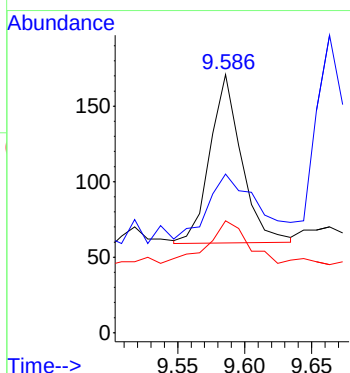
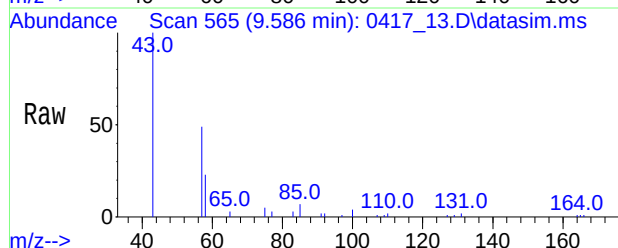
#100
1,4-Dioxane(sim)
Conc: 8\$ Below Cal
RT: 9.132 min Scan# 523
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

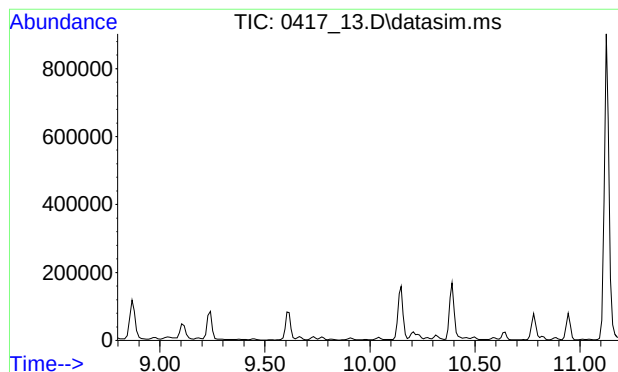
Tgt Ion	Ratio	Lower	Upper
88	100		
58	310.8	111.1	166.7#
87	0.0	12.0	18.0#



#101
cis-1,3-Dichloropropene(sim)
Conc: 8\$ Below Cal
RT: 9.586 min Scan# 565
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

Tgt Ion	Ratio	Lower	Upper
75	100		
77	68.5	26.7	40.1#
110	31.5	20.1	30.1#

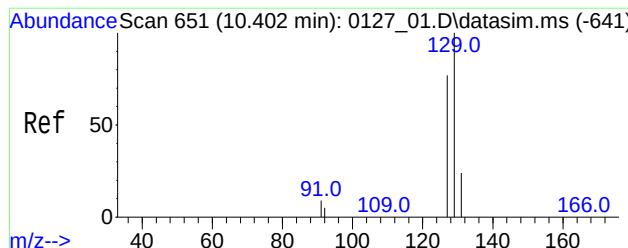
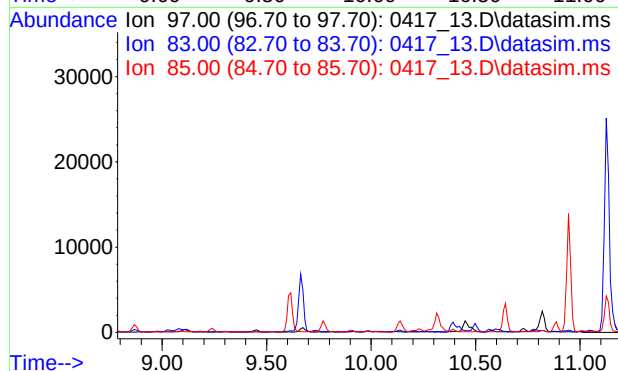




#102
1,1,2-Trichloroethane(sim)
Conc: N.D.
Expected RT: 9.99 min

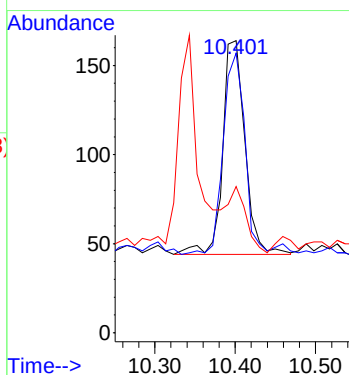
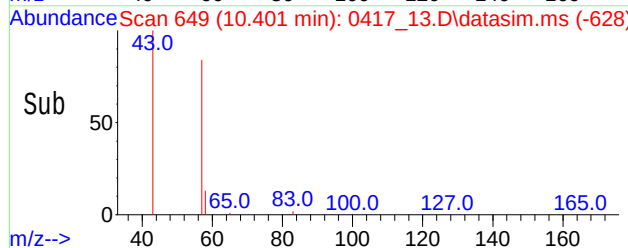
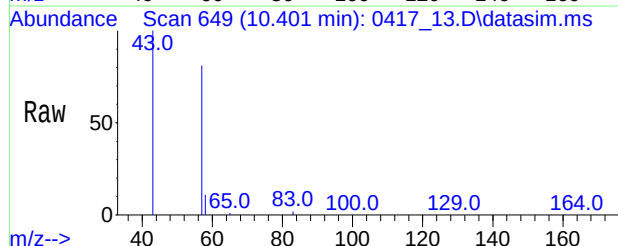
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

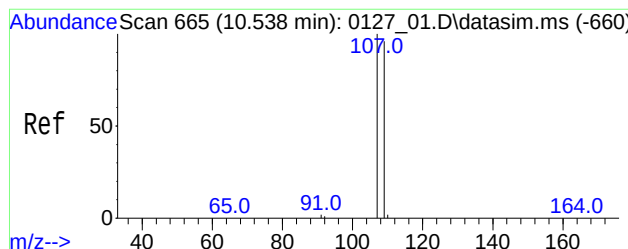
Tgt Ion: 97
Sig Exp Ratio
97 100
83 89.0
85 54.3



#103
Dibromochloromethane(sim)
Conc: 8\$ Below Cal
RT: 10.401 min Scan# 649
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

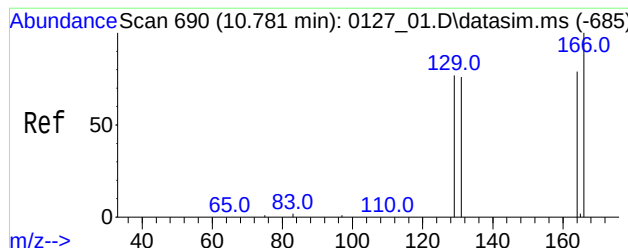
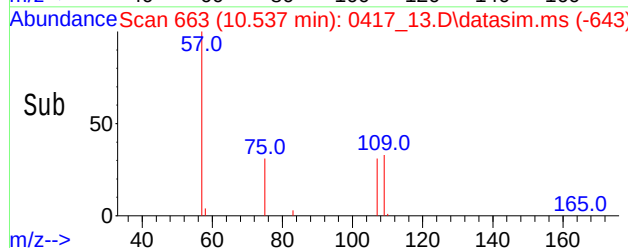
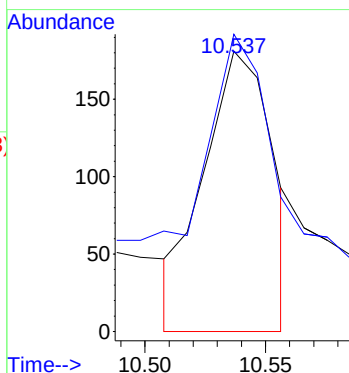
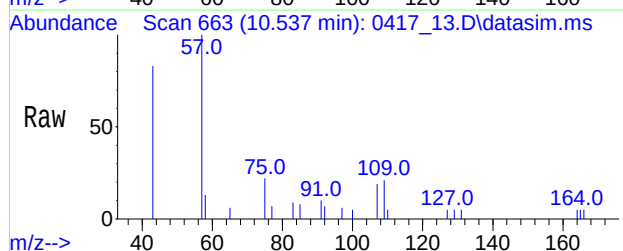
Tgt Ion: 129 Resp: 231
Ion Ratio Lower Upper
129 100
127 88.3 56.7 96.7
131 25.5 5.2 45.2





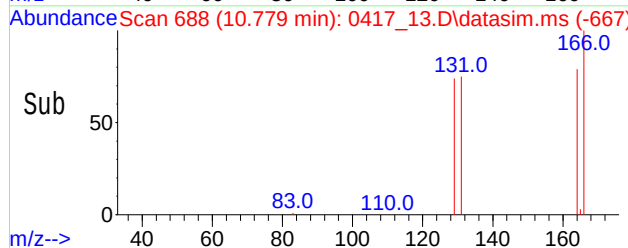
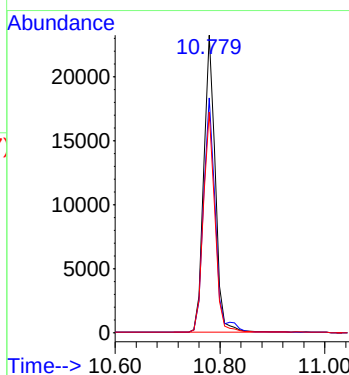
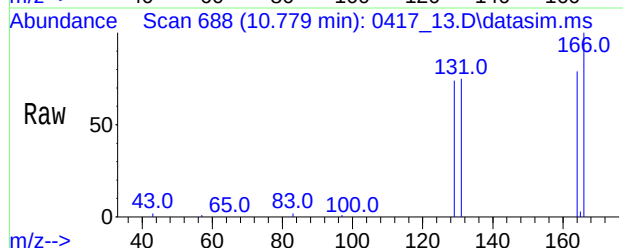
#104
1,2-Dibromoethane(EDB)(sim)
Conc: 8\$ Below Cal
RT: 10.541 min Scan# 663
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

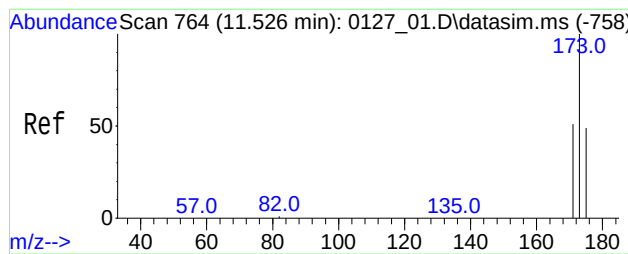
Tgt Ion: 107 Resp: 192
Ion Ratio Lower Upper
107 100
109 41.1 71.7 111.7#



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.420 ppbv
RT: 10.779 min Scan# 688
Delta R.T. -0.001 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

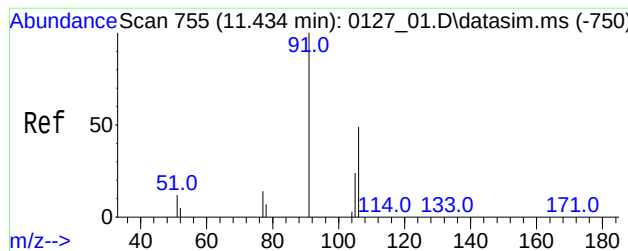
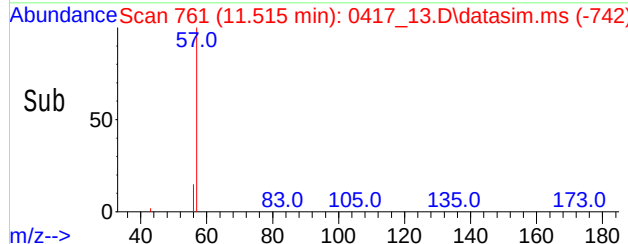
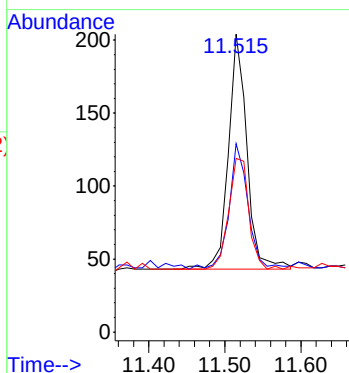
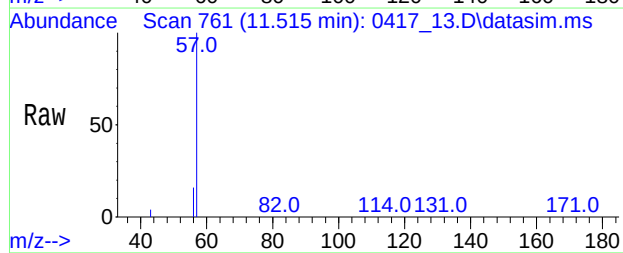
Tgt Ion: 166 Resp: 35088
Ion Ratio Lower Upper
166 100
164 81.2 58.6 98.6
129 74.3 53.3 93.3





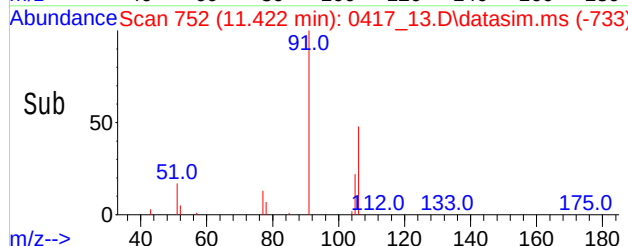
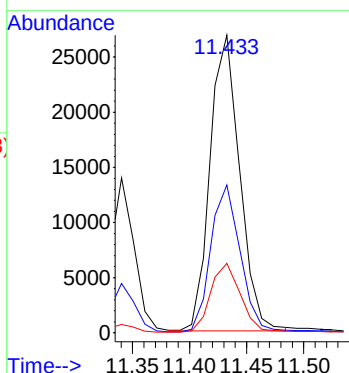
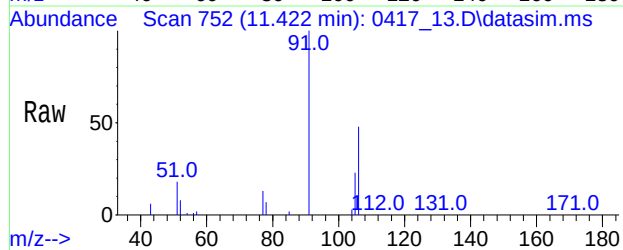
#107
Bromoform(sim)
Conc: 8\$ Below Cal
RT: 11.515 min Scan# 761
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

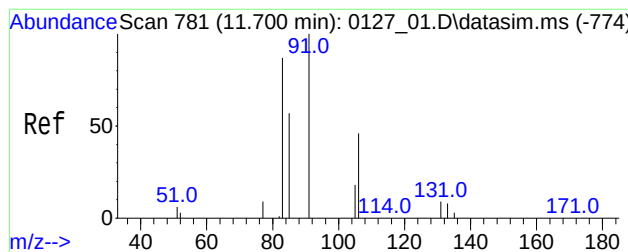
Tgt Ion	173	Resp	272
Ratio	100	Lower	Upper
175	55.1	29.7	69.7
171	51.5	31.8	71.8



#108
m,p-Xylene(sim)
Conc: 8\$ 0.349 ppbv
RT: 11.427 min Scan# 752
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

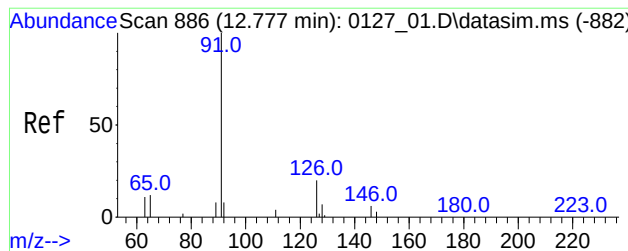
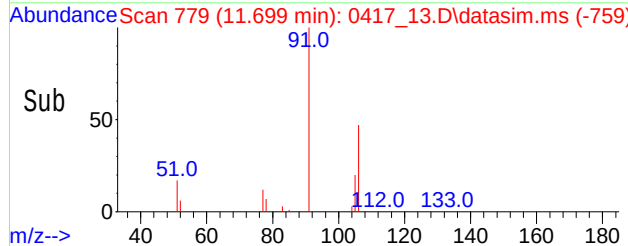
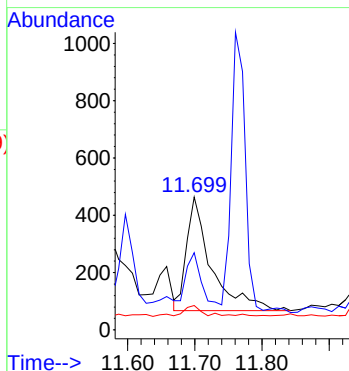
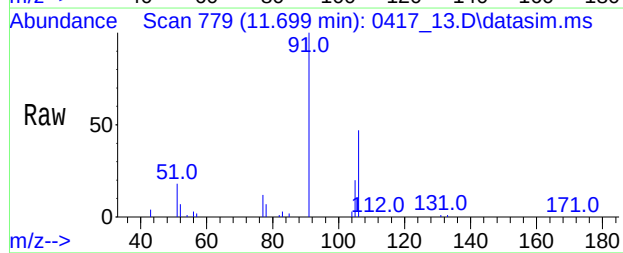
Tgt Ion	91	Resp	42697
Ratio	100	Lower	Upper
106	53.2	47.5	58.1
105	25.2	19.4	29.2





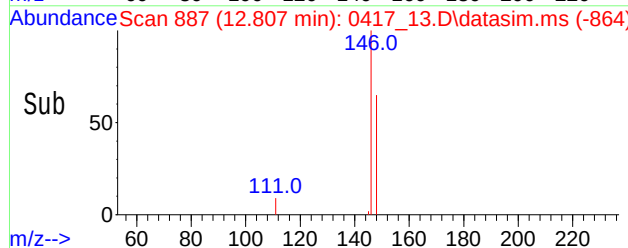
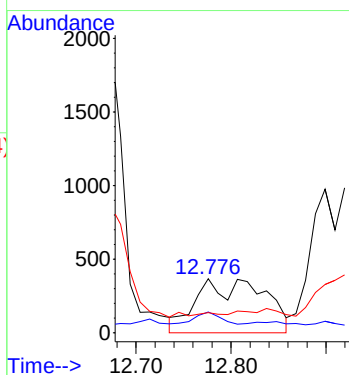
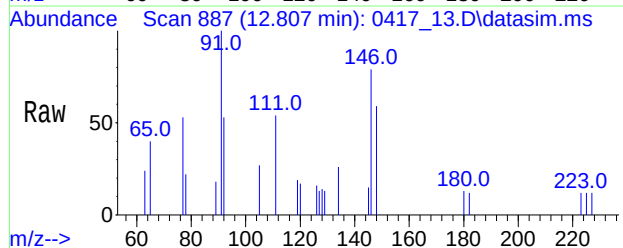
#109
1,1,2,2-Tetrachloroethane(sim)
Conc: 8\$ Below Cal
RT: 11.699 min Scan# 779
Delta R.T. 0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

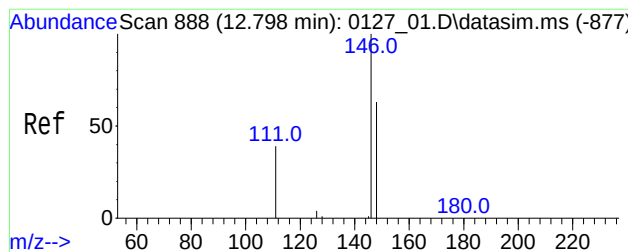
Tgt Ion	83	Resp:	1023
Ion Ratio	83	100	
Lower	85	36.9	0.0
Upper	131	8.4	9.4
		144.8	14.0#



#112
Benzyl chloride(sim)
Conc: 8\$ Below Cal
RT: 12.811 min Scan# 887
Delta R.T. 0.041 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

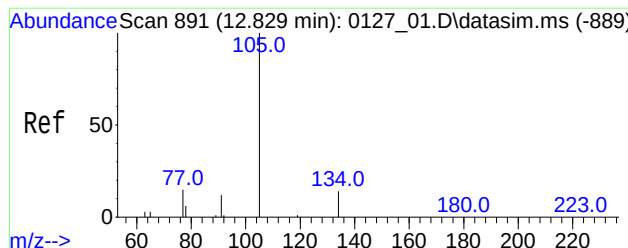
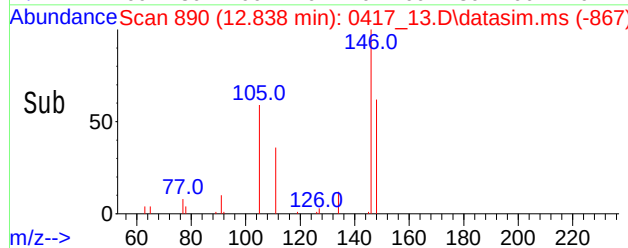
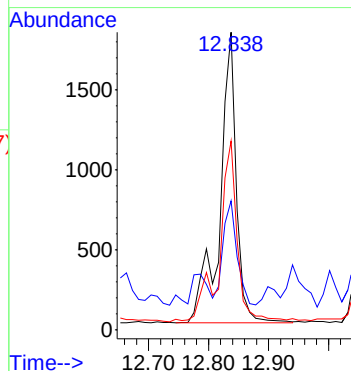
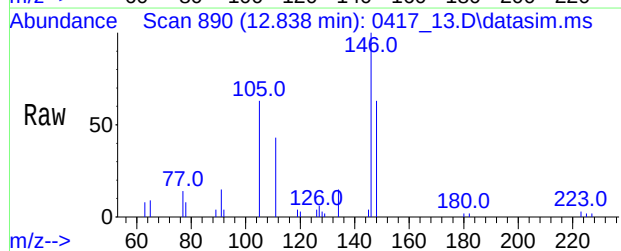
Tgt Ion	91	Resp:	1812
Ion Ratio	91	100	
Lower	126	0.0	3.1
Upper	65	4.9	0.0
		43.1#	36.1





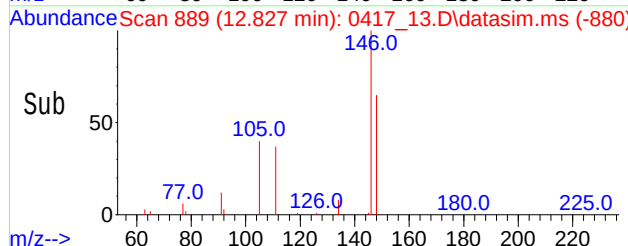
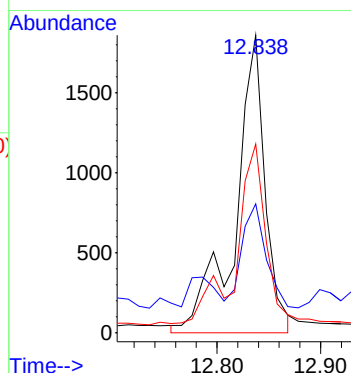
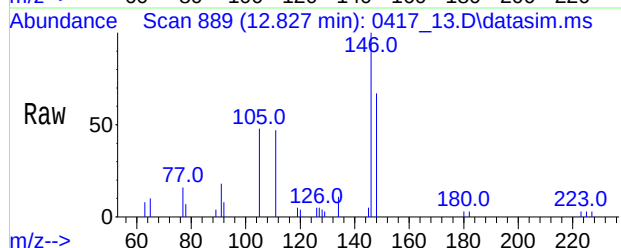
#113
1,3-Dichlorobenzene(sim)
Conc: 8\$ Below Cal
RT: 12.838 min Scan# 890
Delta R.T. 0.040 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

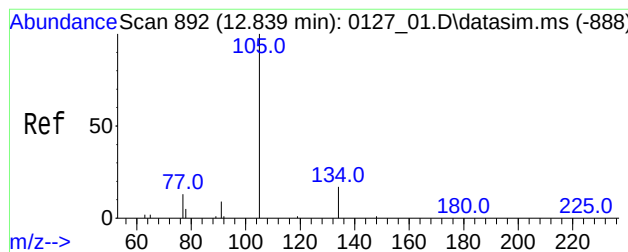
Tgt Ion	Ratio	Lower	Upper
146	100		
111	30.2	31.9	47.9#
148	67.1	50.6	75.8



#114
1,4-Dichlorobenzene(sim)
Conc: 8\$ Below Cal
RT: 12.832 min Scan# 889
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

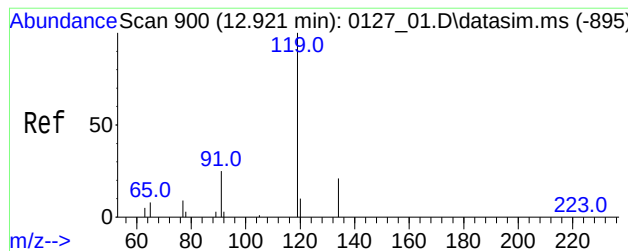
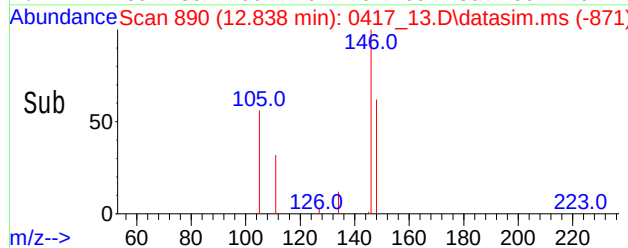
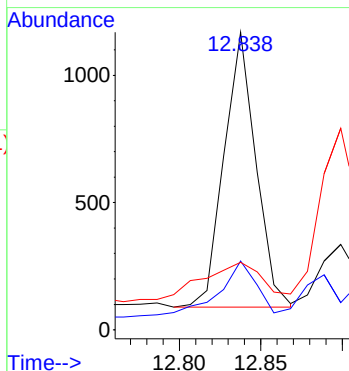
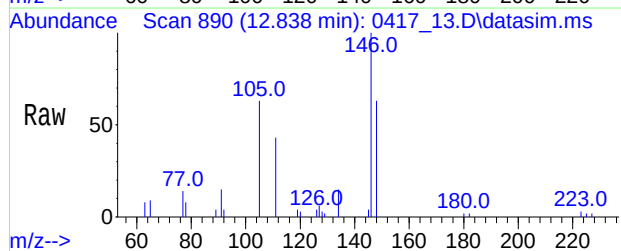
Tgt Ion	Ratio	Lower	Upper
146	100		
111	86.3	18.9	58.9#
148	46.0	46.2	86.2#





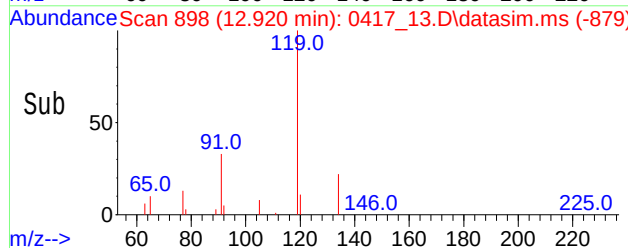
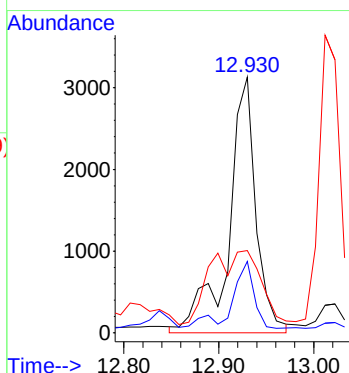
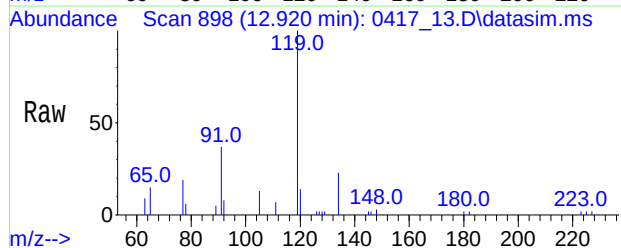
#115
 sec-Butylbenzene(sim)
 Conc: 8\$ Below Cal
 RT: 12.838 min Scan# 890
 Delta R.T. -0.000 min
 Lab File: 0417_13.D
 Acq: 17 Apr 2023 3:54 pm

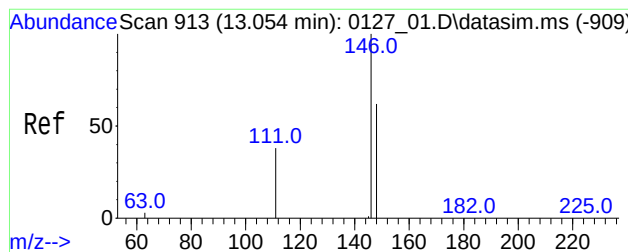
Tgt Ion	105	Resp	1462
Ratio	100	Lower	Upper
105	100		
134	24.3	0.0	39.3
77	28.7	0.0	31.8



#116
 4-Isopropyltoluene(sim)
 Conc: 8\$ Below Cal
 RT: 12.924 min Scan# 898
 Delta R.T. 0.000 min
 Lab File: 0417_13.D
 Acq: 17 Apr 2023 3:54 pm

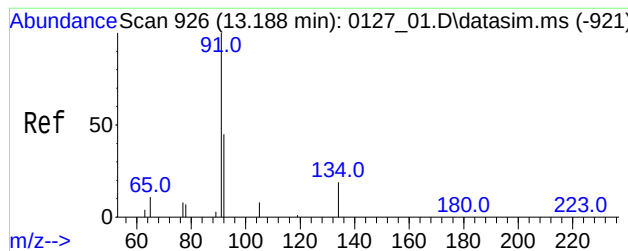
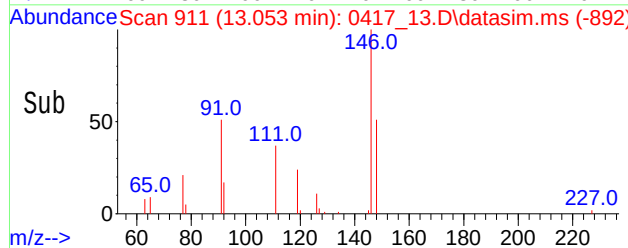
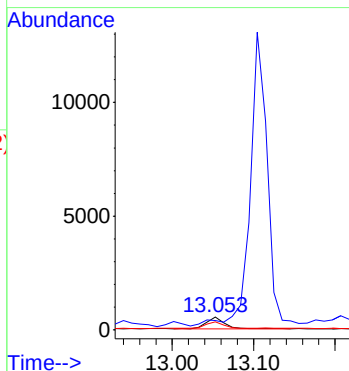
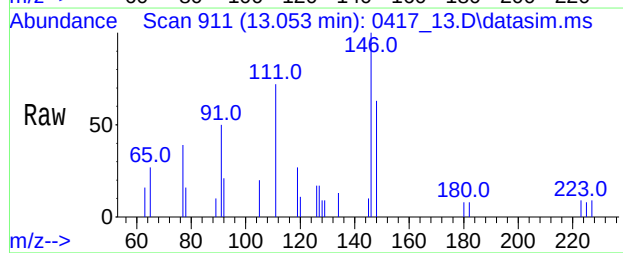
Tgt Ion	119	Resp	5735
Ratio	100	Lower	Upper
119	100		
134	19.6	19.7	29.5#
91	37.2	24.2	36.4#





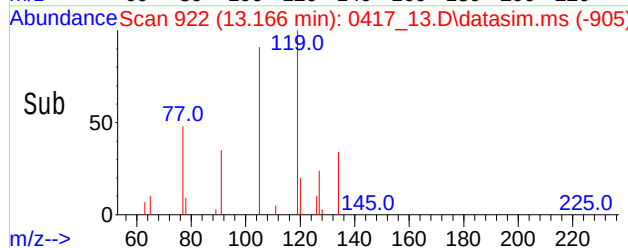
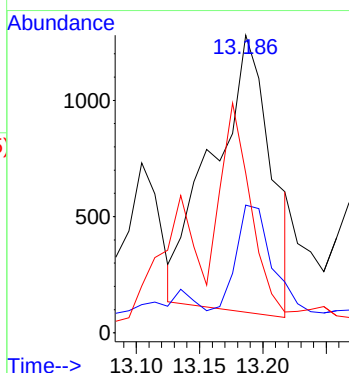
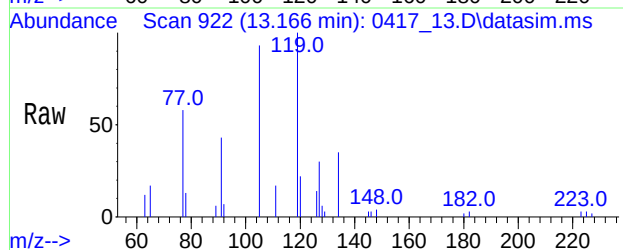
#117
1,2-Dichlorobenzene(sim)
Conc: 8\$ Below Cal
RT: 13.053 min Scan# 911
Delta R.T. -0.000 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

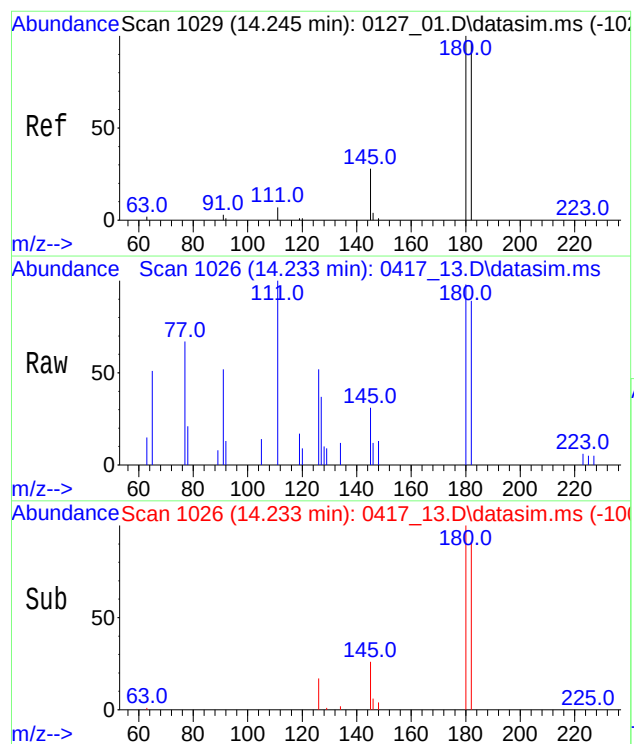
Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.0	59.0#
148	63.5	43.4	83.4



#118
n-Butylbenzene(sim)
Conc: 8\$ Below Cal
RT: 13.171 min Scan# 922
Delta R.T. -0.020 min
Lab File: 0417_13.D
Acq: 17 Apr 2023 3:54 pm

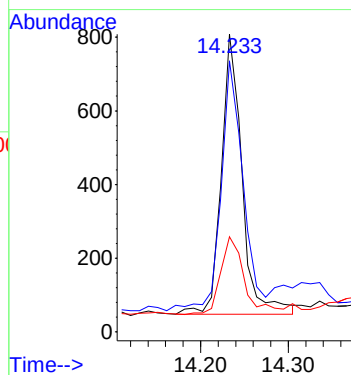
Tgt Ion	Ratio	Lower	Upper
91	100		
92	39.6	28.9	68.9
134	53.8	7.7	47.7#





#119
 1,2,4-Trichlorobenzene(sim)
 Conc: 8\$ Below Cal
 RT: 14.233 min Scan# 1026
 Delta R.T. 0.000 min
 Lab File: 0417_13.D
 Acq: 17 Apr 2023 3:54 pm

Tgt Ion:	180	Resp:	1242
Ion Ratio	Lower	Upper	
180	100		
182	93.6	74.6	114.6
145	32.4	9.5	49.5



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CANISTER BLK 2862
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CANISTER BLK 2862</u>	
Canister:	<u>CANBL</u>	Lab File ID:	<u>0302_23.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u> </u>	Date Received:
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/03/23</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
630-20-6	1,1,1,2-Tetrachloroethane	0.146	U	0.146	0.146	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-41-4	Ethylbenzene	0.230	U	0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.230	U	0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2862

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CANISTER BLK 2862
Canister:	CANBL	Lab File ID:	0302_23.D
Instrument:	CHEM20	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1
Date Received:			
Date Analyzed:	03/03/23		

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Batch Canister Certification

April 21, 2023

Batch Id: 2862

QC Canister Id: 832

SDG ID: GCN84181

Sample Canister Ids: 644

Certification Date: 03/03/23 1:19 AM

Data File: H:\AIR2023\CHEM20\03MAR\02\0302_23.D\0302_23-20_AIR_0303.rr

Project ID: AWARD PACKAGING

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.146	1,1,1-Trichloroethane	<0.183
1,1,2,2-Tetrachloroethane	<0.146	1,1,2-Trichloroethane	<0.183
1,1-Dichloroethane	<0.247	1,1-Dichloroethene	<0.051
1,2,4-Trichlorobenzene	<0.135	1,2,4-Trimethylbenzene	<0.204
1,2-Dibromoethane(EDB)	<0.130	1,2-Dichlorobenzene	<0.166
1,2-Dichloroethane	<0.247	1,2-dichloropropane	<0.217
1,2-Dichlorotetrafluoroethane	<0.143	1,3,5-Trimethylbenzene	<0.204
1,3-Butadiene	<0.452	1,3-Dichlorobenzene	<0.166
1,4-Dichlorobenzene	<0.166	1,4-Dioxane	<0.278
2-Hexanone(MBK)	<0.244	4-Ethyltoluene	<0.204
4-Isopropyltoluene	<0.182	4-Methyl-2-pentanone(MIBK)	<0.244
Acetone	<0.421	Acrylonitrile	<0.461
Benzene	<0.313	Benzyl chloride	<0.193
Bromodichloromethane	<0.149	Bromoform	<0.097
Bromomethane	<0.258	Carbon Disulfide	<0.321
Carbon Tetrachloride	<0.032	Chlorobenzene	<0.217
Chloroethane	<0.379	Chloroform	<0.205
Chloromethane	<0.485	Cis-1,2-Dichloroethene	<0.051
cis-1,3-Dichloropropene	<0.220	Cyclohexane	<0.291
Dibromochloromethane	<0.117	Dichlorodifluoromethane	<0.202
Ethanol	<0.531	Ethyl acetate	<0.278
Ethylbenzene	<0.230	Heptane	<0.244
Hexachlorobutadiene	<0.094	Hexane	<0.284
Isopropylalcohol	<0.407	Isopropylbenzene	<0.204
m,p-Xylene	<0.230	Methyl Ethyl Ketone	<0.339
Methyl tert-butyl ether(MTBE)	<0.278	Methylene Chloride	<0.863
n-Butylbenzene	<0.182	o-Xylene	<0.230
Propylene	<0.581	sec-Butylbenzene	<0.182
Styrene	<0.235	Tetrachloroethene	<0.037
Tetrahydrofuran	<0.339	Toluene	<0.266
Trans-1,2-Dichloroethene	<0.252	trans-1,3-Dichloropropene	<0.220
Trichloroethene	<0.037	Trichlorofluoromethane	<0.178
Trichlorotrifluoroethane	<0.131	Vinyl Chloride	<0.078

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_23.D
 Acq On : 3 Mar 2023 1:19 am
 Operator :
 Client ID : CANISTER BLK 2862
 Lab ID : CANISTER BLK 2862
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 03 13:10:36 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.517	130	367107	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1398298	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	617049	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	424512	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1398298	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	617049	10.000	ng	0.00

System Monitoring Compounds

63) % Bromofluorobenzene	11.961	95	733011	10.882	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	108.80%

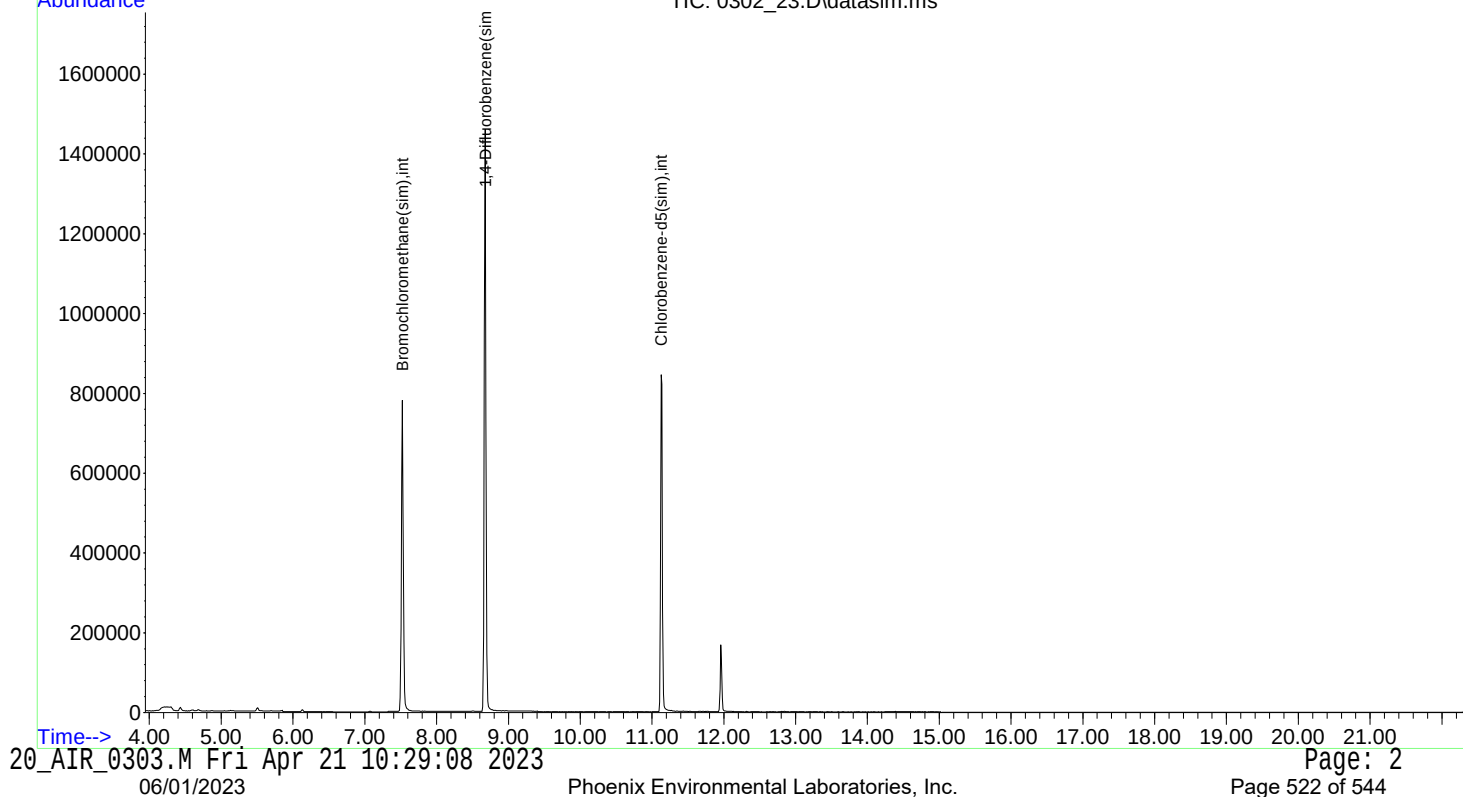
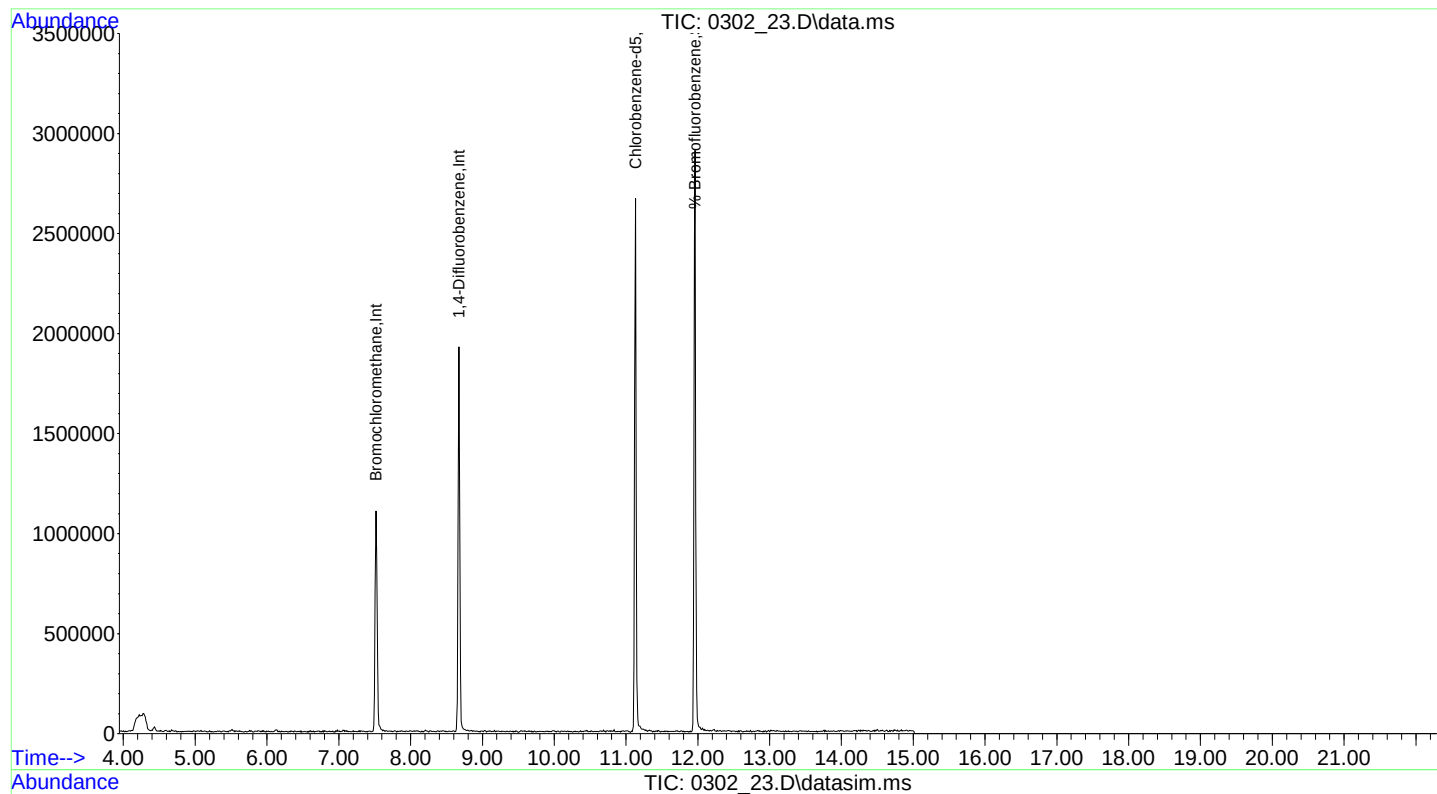
Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_23.D
 Acq On : 3 Mar 2023 1:19 am
 Operator :
 Client ID : CANISTER BLK 2862
 Lab ID : CANISTER BLK 2862
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 03 13:10:36 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CANISTER BLK 2926
SDG No.:	<u>GCN84181</u>	Lab Sample ID:	<u>CANISTER BLK 2926</u>	
Canister:	<u>CANBL</u>	Lab File ID:	<u>0404_32.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u> </u>	Date Received: <u> </u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>04/05/23</u>	
Matrix:	<u>AIR</u>	Dilution Factor:	<u>1</u>	

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	1.17		0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2926

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CANISTER BLK 2926
Canister:	CANBL	Lab File ID:	0404_32.D
Instrument:	CHEM24	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1
Date Received:			
Date Analyzed:	04/05/23		

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Batch Canister Certification

April 21, 2023

Batch Id: 2926

QC Canister Id: 822

SDG ID: GCN84181

Sample Canister Ids: 0657, 0678, 0719

Certification Date: 04/05/23 11:43 AM

Data File: H:\AIR2023\CHEM24\04APR\03\0404_32.D\0404_32-24AIR_0105.rr

Project ID: AWARD PACKAGING

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.146	1,1,1-Trichloroethane	<0.183
1,1,2,2-Tetrachloroethane	<0.146	1,1,2-Trichloroethane	<0.183
1,1-Dichloroethane	<0.247	1,1-Dichloroethene	<0.051
1,2,4-Trichlorobenzene	<0.135	1,2,4-Trimethylbenzene	<0.204
1,2-Dibromoethane(EDB)	<0.130	1,2-Dichlorobenzene	<0.166
1,2-Dichloroethane	<0.247	1,2-dichloropropane	<0.217
1,2-Dichlorotetrafluoroethane	<0.143	1,3,5-Trimethylbenzene	<0.204
1,3-Butadiene	<0.452	1,3-Dichlorobenzene	<0.166
1,4-Dichlorobenzene	<0.166	1,4-Dioxane	<0.278
2-Hexanone(MBK)	<0.244	4-Ethyltoluene	<0.204
4-Isopropyltoluene	<0.182	4-Methyl-2-pentanone(MIBK)	<0.244
Acetone	<0.421	Acrylonitrile	<0.461
Benzene	<0.313	Benzyl chloride	<0.193
Bromodichloromethane	<0.149	Bromoform	<0.097
Bromomethane	<0.258	Carbon Disulfide	<0.321
Carbon Tetrachloride	<0.032	Chlorobenzene	<0.217
Chloroethane	<0.379	Chloroform	<0.205
Chloromethane	<0.485	Cis-1,2-Dichloroethene	<0.051
cis-1,3-Dichloropropene	<0.220	Cyclohexane	<0.291
Dibromochloromethane	<0.117	Dichlorodifluoromethane	<0.202
Ethanol	1.17	Ethyl acetate	<0.278
Ethylbenzene	<0.230	Heptane	<0.244
Hexachlorobutadiene	<0.094	Hexane	<0.284
Isopropylalcohol	<0.407	Isopropylbenzene	<0.204
m,p-Xylene	<0.230	Methyl Ethyl Ketone	<0.339
Methyl tert-butyl ether(MTBE)	<0.278	Methylene Chloride	<0.863
n-Butylbenzene	<0.182	o-Xylene	<0.230
Propylene	<0.581	sec-Butylbenzene	<0.182
Styrene	<0.235	Tetrachloroethene	<0.037
Tetrahydrofuran	<0.339	Toluene	<0.266
Trans-1,2-Dichloroethene	<0.252	trans-1,3-Dichloropropene	<0.220
Trichloroethene	<0.037	Trichlorofluoromethane	<0.178
Trichlorotrifluoroethane	<0.131	Vinyl Chloride	<0.078

Data Path : H:\AIR2023\CHEM24\04APR\03\
 Data File : 0404_32.D
 Acq On : 5 Apr 2023 11:43 am
 Operator : Keith
 Client ID : CANISTER BLK 2926
 Lab ID : CANISTER BLK 2926
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Apr 05 15:25:45 2023
 Quant Method : H:\AIR2023\CHEM24\Methods\24AIR_0105.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Jan 06 09:24:36 2023
 Response via : Initial Calibration

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

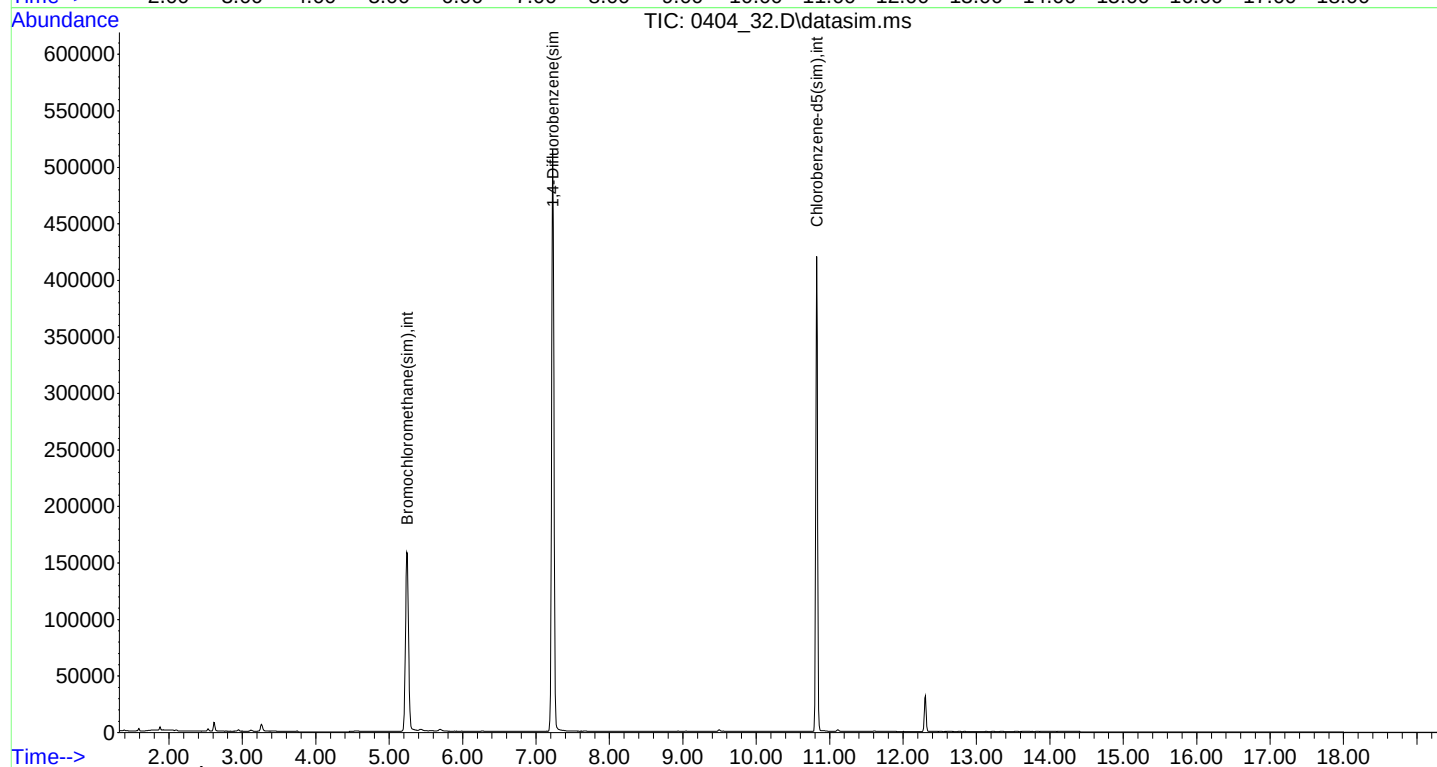
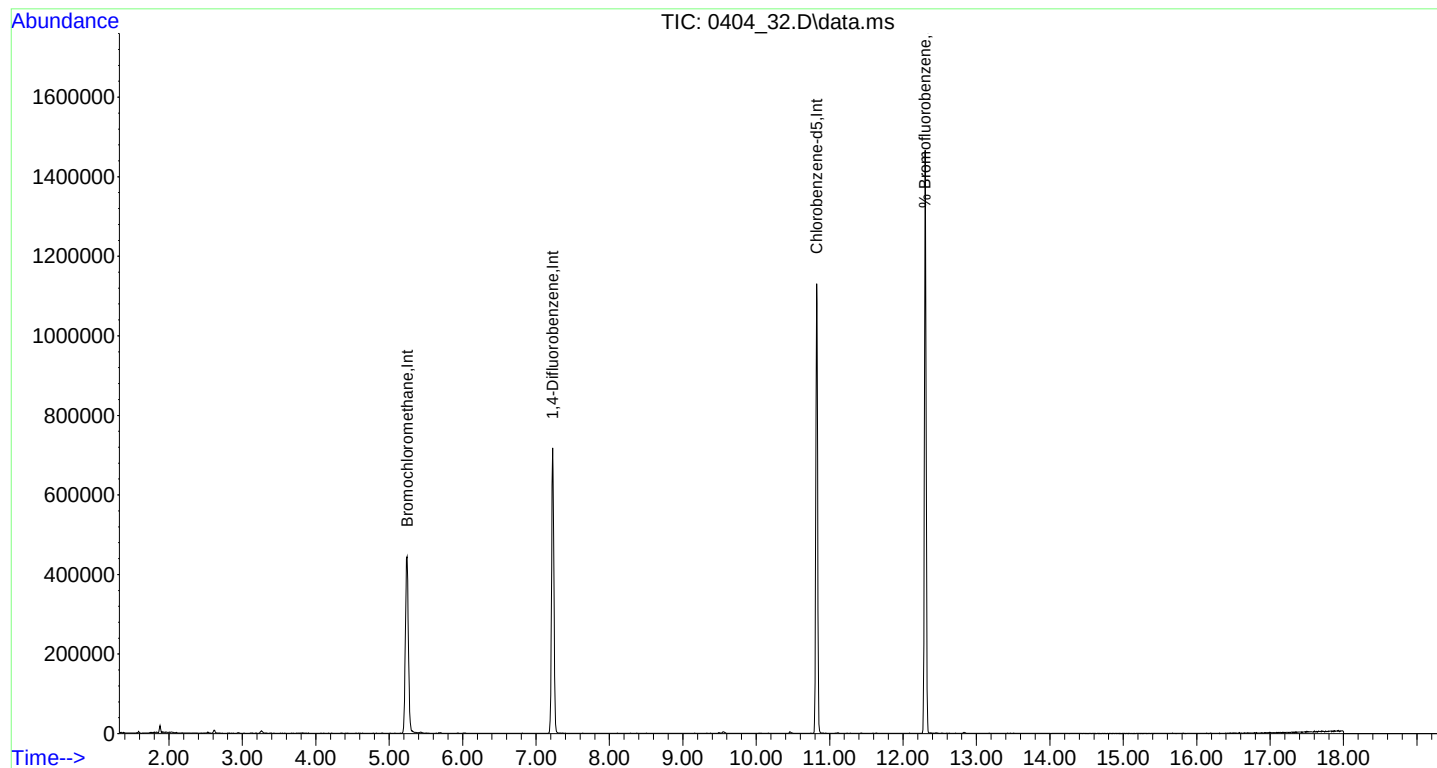
Internal Standards						
1) Bromochloromethane	5.243	130	211362	10.000	ng	-0.04
36) 1,4-Difluorobenzene	7.226	114	656016	10.000	ng	-0.03
53) Chlorobenzene-d5	10.821	82	293704	10.000	ng	-0.02
80) Bromochloromethane(sim)	5.246	130	233789	10.000	ng	#-0.04
95) 1,4-Difluorobenzene(sim)	7.226	114	656051	10.000	ng	-0.03
105) Chlorobenzene-d5(sim)	10.821	82	293704	10.000	ng	-0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	12.301	95	409987	9.107	ppbv	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery	=	91.10%	
Target Compounds						
10) Ethanol	2.616	45	7763	1.174	ppbv#	Qvalue 87

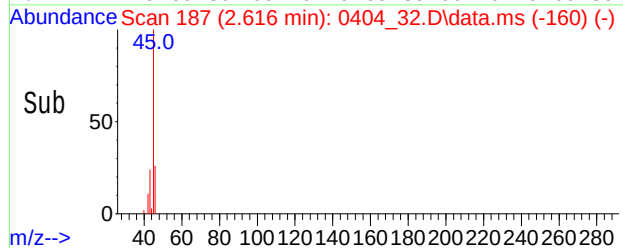
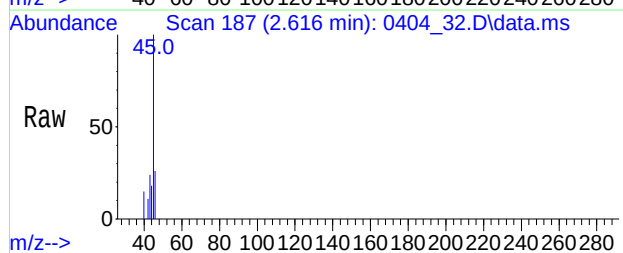
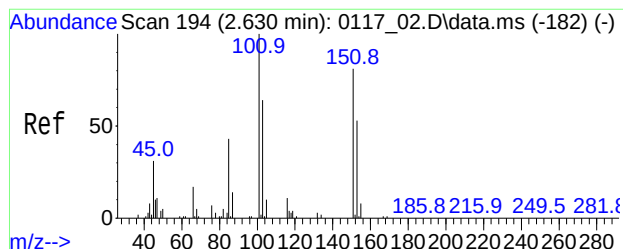
 (#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM24\04APR\03\
 Data File : 0404_32.D
 Acq On : 5 Apr 2023 11:43 am
 Operator : Keith
 Client ID : CANISTER BLK 2926
 Lab ID : CANISTER BLK 2926
 ALS Vial : 23 Sample Multiplier: 1

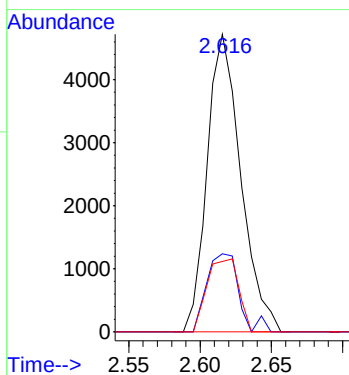
Quant Time: Apr 05 15:25:45 2023
 Quant Method : H:\AIR2023\CHEM24\Methods\24AIR_0105.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Jan 06 09:24:36 2023
 Response via : Initial Calibration





#10
Ethanol
Conc: 8\$ 1.174 ppbv
RT: 2.616 min Scan# 187
Delta R.T. -0.013 min
Lab File: 0404_32.D
Acq: 5 Apr 2023 11:43 am

Tgt Ion	Ratio	Lower	Upper
45	100		
46	25.0	20.6	30.8
43	22.9	28.3	42.5#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2927

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CANISTER BLK 2927
Canister:	CANBL	Lab File ID:	0404_33.D
Instrument:	CHEM24	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1
Date Received:			
Date Analyzed:	04/05/23		

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
115-07-1	Propylene	0.581	U	0.581	0.581	r
75-71-8	Dichlorodifluoromethane	0.202	U	0.202	0.202	r
74-87-3	Chloromethane	0.485	U	0.485	0.485	r
106-99-0	1,3-Butadiene	0.452	U	0.452	0.452	r
75-00-3	Chloroethane	0.379	U	0.379	0.379	r
64-17-5	Ethanol	0.531	U	0.531	0.531	r
67-64-1	Acetone	0.421	U	0.421	0.421	r
67-63-0	Isopropylalcohol	0.407	U	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	U	0.863	0.863	r
75-15-0	Carbon Disulfide	0.321	U	0.321	0.321	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.339	U	0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.278	U	0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	0.244	U	0.244	0.244	r
108-10-1	4-Methyl-2-pentanone(MIBK)	0.244	U	0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
108-90-7	Chlorobenzene	0.217	U	0.217	0.217	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.204	U	0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	0.204	U	0.204	0.204	r
76-14-2	1,2-Dichlorotetrafluoroethane(sim)	0.143	U	0.143	0.143	r
75-01-4	Vinyl Chloride(sim)	0.078	U	0.078	0.078	r
74-83-9	Bromomethane(sim)	0.258	U	0.258	0.258	r
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
71-55-6	1,1,1-Trichloroethane(sim)	0.183	U	0.183	0.183	r
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.032	U	0.032	0.032	r
75-35-4	1,1-Dichloroethene(sim)	0.051	U	0.051	0.051	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent

1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2927

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN84181	Lab Sample ID:	CANISTER BLK 2927
Canister:	CANBL	Lab File ID:	0404_33.D
Instrument:	CHEM24	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1
Date Received:			
Date Analyzed:	04/05/23		

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
76-13-1	Trichlorotrifluoroethane(sim)	0.131	U	0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.252	U	0.252	0.252	r
75-34-3	1,1-Dichloroethane(sim)	0.247	U	0.247	0.247	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.051	U	0.051	0.051	r
67-66-3	Chloroform(sim)	0.205	U	0.205	0.205	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	r
78-87-5	1,2-dichloropropane(sim)	0.217	U	0.217	0.217	r
75-27-4	Bromodichloromethane(sim)	0.149	U	0.149	0.149	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
123-91-1	1,4-Dioxane(sim)	0.278	U	0.278	0.278	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.220	U	0.220	0.220	r
79-00-5	1,1,2-Trichloroethane(sim)	0.183	U	0.183	0.183	r
124-48-1	Dibromochloromethane(sim)	0.117	U	0.117	0.117	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.130	U	0.130	0.130	r
127-18-4	Tetrachloroethene(sim)	0.037	U	0.037	0.037	r
75-25-2	Bromoform(sim)	0.097	U	0.097	0.097	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-41-4	Ethylbenzene(sim)	0.230	U	0.230	0.230	r
179601-23-1	m,p-Xylene(sim)	0.230	U	0.230	0.230	r
95-47-6	o-Xylene(sim)	0.230	U	0.230	0.230	r
79-34-5	1,1,1,2-Tetrachloroethane(sim)	0.146	U	0.146	0.146	r
100-44-7	Benzyl chloride(sim)	0.193	U	0.193	0.193	r
541-73-1	1,3-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
106-46-7	1,4-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
135-98-8	sec-Butylbenzene(sim)	0.182	U	0.182	0.182	r
99-87-6	4-Isopropyltoluene(sim)	0.182	U	0.182	0.182	r
95-50-1	1,2-Dichlorobenzene(sim)	0.166	U	0.166	0.166	r
104-51-8	n-Butylbenzene(sim)	0.182	U	0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.135	U	0.135	0.135	r
87-68-3	Hexachlorobutadiene(sim)	0.094	U	0.094	0.094	r

FORM I AIR

r=Result Reported U=Not Detected D=Reported Dilution E/J=Estimated Value X=Not Used S=Lab Solvent



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045

Batch Canister Certification

April 21, 2023

Batch Id: 2927

QC Canister Id: 811

SDG ID: GCN84181

Sample Canister Ids: 13644, 23332, 23349, 28605, 461

Certification Date: 04/05/23 12:20 PM

Data File: H:\AIR2023\CHEM24\04APR\03\0404_33.D\0404_33-24AIR_0105.rr

Project ID: AWARD PACKAGING

Analyte	Result (ppbv)	Analyte	Result (ppbv)
1,1,1,2-Tetrachloroethane	<0.146	1,1,1-Trichloroethane	<0.183
1,1,2,2-Tetrachloroethane	<0.146	1,1,2-Trichloroethane	<0.183
1,1-Dichloroethane	<0.247	1,1-Dichloroethene	<0.051
1,2,4-Trichlorobenzene	<0.135	1,2,4-Trimethylbenzene	<0.204
1,2-Dibromoethane(EDB)	<0.130	1,2-Dichlorobenzene	<0.166
1,2-Dichloroethane	<0.247	1,2-dichloropropane	<0.217
1,2-Dichlorotetrafluoroethane	<0.143	1,3,5-Trimethylbenzene	<0.204
1,3-Butadiene	<0.452	1,3-Dichlorobenzene	<0.166
1,4-Dichlorobenzene	<0.166	1,4-Dioxane	<0.278
2-Hexanone(MBK)	<0.244	4-Ethyltoluene	<0.204
4-Isopropyltoluene	<0.182	4-Methyl-2-pentanone(MIBK)	<0.244
Acetone	<0.421	Acrylonitrile	<0.461
Benzene	<0.313	Benzyl chloride	<0.193
Bromodichloromethane	<0.149	Bromoform	<0.097
Bromomethane	<0.258	Carbon Disulfide	<0.321
Carbon Tetrachloride	<0.032	Chlorobenzene	<0.217
Chloroethane	<0.379	Chloroform	<0.205
Chloromethane	<0.485	Cis-1,2-Dichloroethene	<0.051
cis-1,3-Dichloropropene	<0.220	Cyclohexane	<0.291
Dibromochloromethane	<0.117	Dichlorodifluoromethane	<0.202
Ethanol	<0.531	Ethyl acetate	<0.278
Ethylbenzene	<0.230	Heptane	<0.244
Hexachlorobutadiene	<0.094	Hexane	<0.284
Isopropylalcohol	<0.407	Isopropylbenzene	<0.204
m,p-Xylene	<0.230	Methyl Ethyl Ketone	<0.339
Methyl tert-butyl ether(MTBE)	<0.278	Methylene Chloride	<0.863
n-Butylbenzene	<0.182	o-Xylene	<0.230
Propylene	<0.581	sec-Butylbenzene	<0.182
Styrene	<0.235	Tetrachloroethene	<0.037
Tetrahydrofuran	<0.339	Toluene	<0.266
Trans-1,2-Dichloroethene	<0.252	trans-1,3-Dichloropropene	<0.220
Trichloroethene	<0.037	Trichlorofluoromethane	<0.178
Trichlorotrifluoroethane	<0.131	Vinyl Chloride	<0.078

Data Path : H:\AIR2023\CHEM24\04APR\03\
 Data File : 0404_33.D
 Acq On : 5 Apr 2023 12:20 pm
 Operator : Keith
 Client ID : CANISTER BLK 2927
 Lab ID : CANISTER BLK 2927
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 05 15:28:01 2023
 Quant Method : H:\AIR2023\CHEM24\Methods\24AIR_0105.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Jan 06 09:24:36 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.243	130	218659	10.000	ng	-0.04
36) 1,4-Difluorobenzene	7.226	114	679571	10.000	ng	-0.03
53) Chlorobenzene-d5	10.828	82	296567	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.246	130	242001	10.000	ng	#-0.04
95) 1,4-Difluorobenzene(sim)	7.226	114	679571	10.000	ng	-0.03
105) Chlorobenzene-d5(sim)	10.828	82	296567	10.000	ng	-0.01

System Monitoring Compounds						
62) % Bromofluorobenzene	12.301	95	418011	9.195	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	92.00%

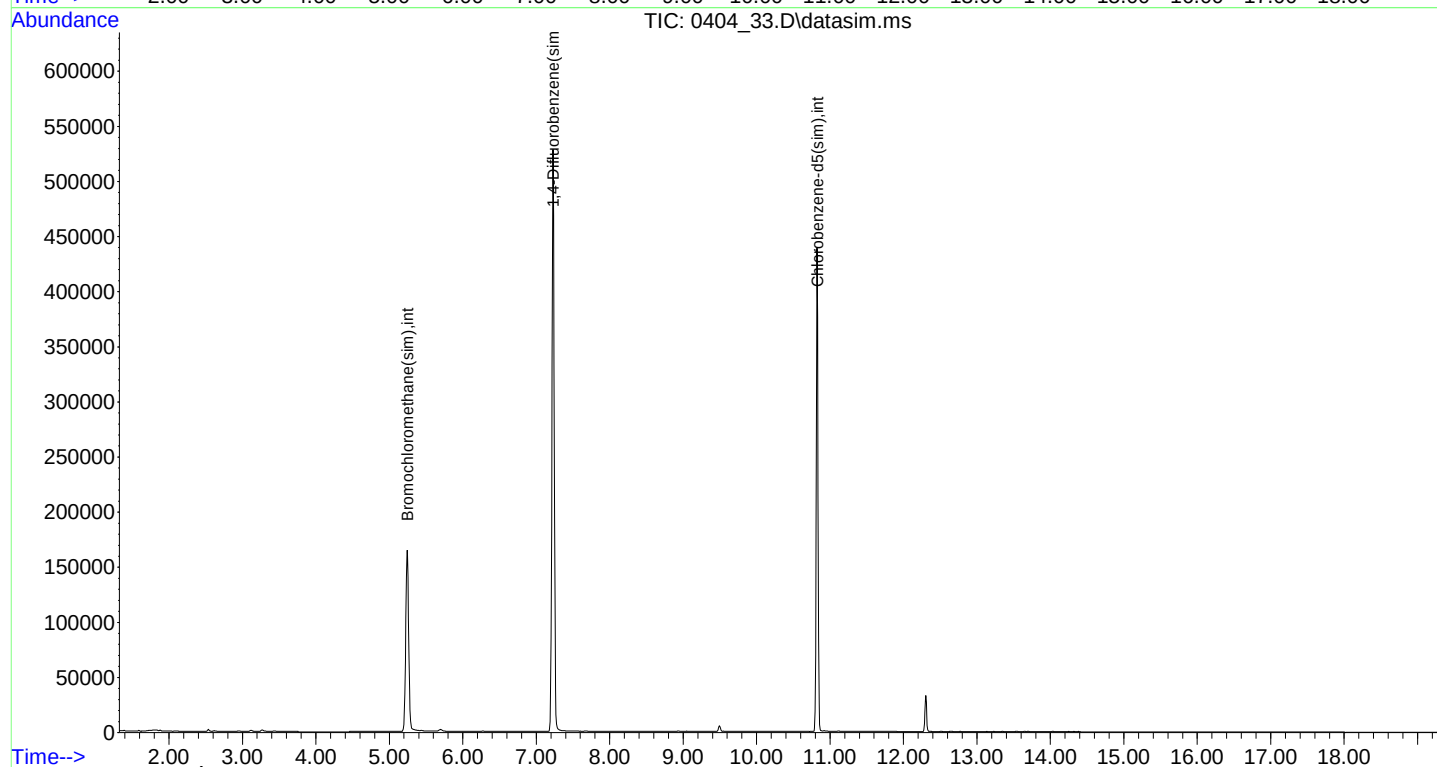
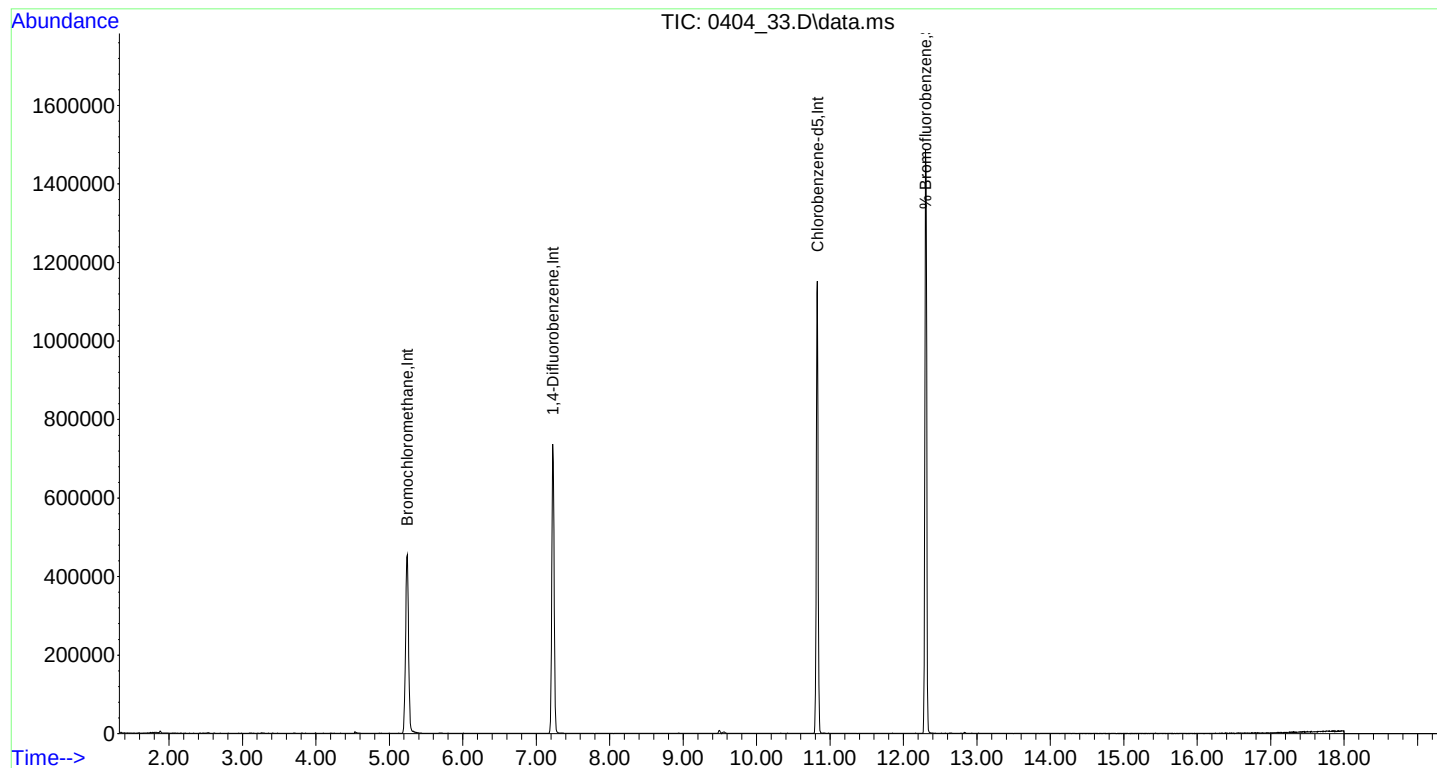
Target Compounds	Qvalue

(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM24\04APR\03\
 Data File : 0404_33.D
 Acq On : 5 Apr 2023 12:20 pm
 Operator : Keith
 Client ID : CANISTER BLK 2927
 Lab ID : CANISTER BLK 2927
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 05 15:28:01 2023
 Quant Method : H:\AIR2023\CHEM24\Methods\24AIR_0105.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Jan 06 09:24:36 2023
 Response via : Initial Calibration



Injection Log

Data Directory: H:\AIR2023\CHEM20\03MAR\02\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	5	0302_02.D	XXXXXXXXXX		03/02/23 13:32
2)	6	0302_03.D	XXXXXXXXXX		03/02/23 14:03
3)	1	0302_04.D	XXXXXXXXXX		03/02/23 14:34
4)	2	0302_05.D	XXXXXXXXXX		03/02/23 15:05
5)	1	0302_06.D	XXXXXXXXXX		03/02/23 16:10
6)	2	0302_07.D	XXXXXXXXXX		03/02/23 16:41
7)	5	0302_08.D	XXXXXXXXXX		03/02/23 17:13
8)	6	0302_09.D	XXXXXXXXXX		03/02/23 17:47
9)	7	0302_10.D	XXXXXXXXXX		03/02/23 18:18
10)	6	0302_11.D	XXXXXXXXXX		03/02/23 18:49
11)	7	0302_12.D	XXXXXXXXXX		03/02/23 19:22
12)	8	0302_13.D	XXXXXXXXXX		03/02/23 19:55
13)	9	0302_14.D	XXXXXXXXXX		03/02/23 20:26
14)	10	0302_15.D	XXXXXXXXXX		03/02/23 20:59
15)	11	0302_16.D	XXXXXXXXXX		03/02/23 21:34
16)	12	0302_17.D	XXXXXXXXXX		03/02/23 22:05
17)	13	0302_18.D	XXXXXXXXXX		03/02/23 22:36
18)	14	0302_19.D	XXXXXXXXXX		03/02/23 23:09
19)	1	0302_20.D	XXXXXXXXXX		03/02/23 23:41
20)	2	0302_21.D	XXXXXXXXXX		03/03/23 0:12
21)	3	0302_22.D	XXXXXXXXXX		03/03/23 0:46
22)	4	0302_23.D	CANISTER BLK 2862	CANISTER BLK 2862	03/03/23 1:19
23)	5	0302_24.D	XXXXXXXXXX		03/03/23 1:53
24)	6	0302_25.D	XXXXXXXXXX		03/03/23 2:27
25)	7	0302_26.D	XXXXXXXXXX		03/03/23 3:01
26)	8	0302_27.D	XXXXXXXXXX		03/03/23 3:35
27)	9	0302_28.D	XXXXXXXXXX		03/03/23 4:09
28)	10	0302_29.D	XXXXXXXXXX		03/03/23 4:43
29)	11	0302_30.D	XXXXXXXXXX		03/03/23 5:14
30)	12	0302_31.D	XXXXXXXXXX		03/03/23 5:46
31)	13	0302_32.D	XXXXXXXXXX		03/03/23 6:17
32)	14	0302_33.D	XXXXXXXXXX		03/03/23 6:51
33)	15	0302_34.D	XXXXXXXXXX		03/03/23 7:25
34)	16	0302_35.D	XXXXXXXXXX		03/03/23 7:59
35)	17	0302_36.D	XXXXXXXXXX		03/03/23 8:30
36)	18	0302_37.D	XXXXXXXXXX		03/03/23 9:01
37)	19	0302_38.D	XXXXXXXXXX		03/03/23 9:32
38)	20	0302_39.D	XXXXXXXXXX		03/03/23 10:04
39)	21	0302_40.D	XXXXXXXXXX		03/03/23 10:35
40)	22	0302_41.D	XXXXXXXXXX		03/03/23 11:06
41)	23	0302_42.D	XXXXXXXXXX		03/03/23 12:51
42)	1	0303_01.D	XXXXXXXXXX		03/03/23 13:23
43)	2	0303_02.D	XXXXXXXXXX		03/03/23 13:54
44)	3	0303_03.D	XXXXXXXXXX		03/03/23 14:28
45)	4	0303_04.D	XXXXXXXXXX		03/03/23 14:58

Injection Log

Data Directory: H:\AIR2023\CHEM20\04APR\10\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0415_06.D	XXXXXXXXXX		N/A
2)	7	0410_01.D	XXXXXXXXXX		04/10/23 8:30
3)	8	0410_02.D	XXXXXXXXXX		04/10/23 9:00
4)	9	0410_03.D	BFB TUNE	0/0	04/10/23 9:30
5)	1	0410_04.D	ICAL 0.01	0.01 ppbV ; AirT0150	04/10/23 10:01
6)	2	0410_05.D	ICAL 0.02	0.02 ppbV ; AirT0150	04/10/23 10:31
7)	5	0410_06.D	ICAL 0.035	0.035 ppbV ; AirT015	04/10/23 11:03
8)	6	0410_07.D	ICAL 0.05	0.05 ppbV ; AirT0150	04/10/23 11:36
9)	7	0410_08.D	ICAL 0.1	0.10 ppbV ; AirT0150	04/10/23 12:07
10)	6	0410_09.D	ICAL 0.2	0.20 ppbV ; AirT0150	04/10/23 12:38
11)	7	0410_10.D	ICAL 0.5	0.50 ppbV ; AirT0150	04/10/23 13:10
12)	8	0410_11.D	ICAL 2.5	2.5 ppbV ; AirT01502	04/10/23 13:43
13)	9	0410_12.D	ICAL 5	5.0 ppbV ; AirT01501	04/10/23 14:14
14)	10	0410_13.D	ICAL 25	25 ppbV ; AirT01501Z	04/10/23 14:47
15)	11	0410_14.D	ICAL 40	40 ppbV ; AirT01501	04/10/23 15:22
16)	12	0410_15.D	ICAL 1	1.0 ppbV ; AirT01502	04/10/23 15:53
17)	13	0410_16.D	ICAL 10	10 ppbV ; AirT01501Z	04/10/23 16:24
18)	14	0410_17.D	XXXXXXXXXX		04/10/23 16:56
19)	1	0410_18.D	XXXXXXXXXX		04/10/23 17:27
20)	2	0410_19.D	XXXXXXXXXX		04/10/23 17:58
21)	3	0410_20.D	XXXXXXXXXX		04/10/23 18:31
22)	4	0410_21.D	XXXXXXXXXX		04/10/23 19:04
23)	5	0410_22.D	XXXXXXXXXX		04/10/23 19:38
24)	6	0410_23.D	XXXXXXXXXX		04/10/23 20:11
25)	7	0410_24.D	XXXXXXXXXX		04/10/23 20:45
26)	8	0410_25.D	XXXXXXXXXX		04/10/23 21:16
27)	9	0410_26.D	XXXXXXXXXX		04/10/23 21:46
28)	10	0410_27.D	XXXXXXXXXX		04/10/23 22:17
29)	11	0410_28.D	XXXXXXXXXX		04/10/23 22:48
30)	12	0410_29.D	XXXXXXXXXX		04/10/23 23:22
31)	13	0410_30.D	XXXXXXXXXX		04/10/23 23:56
32)	14	0410_31.D	XXXXXXXXXX		04/11/23 0:30
33)	15	0410_32.D	XXXXXXXXXX		04/11/23 1:04
34)	16	0410_33.D	XXXXXXXXXX		04/11/23 1:48
35)	17	0410_34.D	XXXXXXXXXX		04/11/23 2:32
36)	18	0410_35.D	XXXXXXXXXX		04/11/23 3:04
37)	19	0410_36.D	XXXXXXXXXX		04/11/23 3:35
38)	20	0410_37.D	XXXXXXXXXX		04/11/23 4:06
39)	21	0410_38.D	XXXXXXXXXX		04/11/23 10:24
40)	22	0410_39.D	XXXXXXXXXX		04/11/23 10:56
41)	23	0410_40.D	XXXXXXXXXX		04/11/23 11:26
42)	24	0410_41.D	XXXXXXXXXX		04/11/23 11:57
43)	25	0410_42.D	XXXXXXXXXX		04/11/23 12:28
44)	26	0410_43.D	XXXXXXXXXX		04/11/23 12:59
45)	27	0411_01.D	XXXXXXXXXX		04/11/23 13:30
46)	28	0411_02.D	XXXXXXXXXX		04/11/23 14:01
47)	29	0411_03.D	XXXXXXXXXX		04/11/23 14:34
48)	30	0411_04.D	XXXXXXXXXX		04/11/23 15:04
49)	31	0411_05.D	XXXXXXXXXX		04/11/23 15:35
50)	32	0411_06.D	XXXXXXXXXX		04/11/23 16:08
51)	33	0411_07.D	XXXXXXXXXX		04/11/23 16:42
52)	34	0411_08.D	XXXXXXXXXX		04/11/23 17:16
53)	35	0411_09.D	XXXXXXXXXX		04/11/23 17:50
54)	36	0411_10.D	XXXXXXXXXX		04/11/23 18:23
55)	36	0411_11.D	XXXXXXXXXX		04/11/23 18:55
56)	37	0411_12.D	XXXXXXXXXX		04/11/23 19:25
57)	40	0411_15.D	XXXXXXXXXX		04/11/23 19:55
58)	41	0411_16.D	XXXXXXXXXX		04/11/23 20:29
59)	42	0411_17.D	XXXXXXXXXX		04/11/23 21:03
60)	43	0411_18.D	XXXXXXXXXX		04/11/23 21:37
61)	44	0411_19.D	XXXXXXXXXX		04/11/23 22:11
62)	45	0411_20.D	XXXXXXXXXX		04/11/23 22:45
63)	46	0411_21.D	XXXXXXXXXX		04/11/23 23:19
64)	47	0411_22.D	XXXXXXXXXX		04/11/23 23:52
65)	48	0411_23.D	XXXXXXXXXX		04/12/23 0:23
66)	49	0411_24.D	XXXXXXXXXX		04/12/23 0:55

67)	50	0411_25.D	XXXXXXXXXX	04/12/23	1:26
68)	51	0411_26.D	XXXXXXXXXX	04/12/23	1:57
69)	52	0411_27.D	XXXXXXXXXX	04/12/23	2:28
70)	53	0411_28.D	XXXXXXXXXX	04/12/23	2:59
71)	54	0411_29.D	XXXXXXXXXX	04/12/23	3:30
72)	55	0411_30.D	XXXXXXXXXX	04/12/23	4:01
73)	56	0411_31.D	XXXXXXXXXX	04/12/23	4:31
74)	57	0411_32.D	XXXXXXXXXX	04/12/23	5:05
75)	58	0411_33.D	XXXXXXXXXX	04/12/23	5:38
76)	59	0411_34.D	XXXXXXXXXX	04/12/23	7:48
77)	61	0411_36.D	XXXXXXXXXX	04/12/23	8:32
78)	62	0411_37.D	XXXXXXXXXX	04/12/23	9:06
79)	63	0411_38.D	XXXXXXXXXX	04/12/23	9:40
80)	64	0411_39.D	XXXXXXXXXX	04/12/23	10:14
81)	65	0411_40.D	XXXXXXXXXX	04/12/23	10:48
82)	66	0412_01.D	XXXXXXXXXX	04/12/23	11:18
83)	67	0412_02.D	XXXXXXXXXX	04/12/23	11:51
84)	68	0412_03.D	XXXXXXXXXX	04/12/23	12:22
85)	69	0412_04.D	XXXXXXXXXX	04/12/23	12:55
86)	70	0412_05.D	XXXXXXXXXX	04/12/23	13:25
87)	71	0412_06.D	XXXXXXXXXX	04/12/23	14:44
88)	72	0412_07.D	XXXXXXXXXX	04/12/23	15:15
89)	72	0412_08.D	XXXXXXXXXX	04/12/23	15:49
90)	73	0412_09.D	XXXXXXXXXX	04/12/23	16:23
91)	74	0412_10.D	XXXXXXXXXX	04/12/23	16:56
92)	75	0412_11.D	XXXXXXXXXX	04/12/23	17:30
93)	76	0412_12.D	XXXXXXXXXX	04/12/23	18:01
94)	77	0412_13.D	XXXXXXXXXX	04/12/23	18:33
95)	1	0412_14.D	XXXXXXXXXX	04/12/23	20:00
96)	1	0412_15.D	XXXXXXXXXX	04/12/23	20:29
97)	2	0412_16.D	XXXXXXXXXX	04/12/23	21:03
98)	3	0412_17.D	XXXXXXXXXX	04/12/23	21:37
99)	4	0412_18.D	XXXXXXXXXX	04/12/23	22:11
100)	5	0412_19.D	XXXXXXXXXX	04/12/23	22:45
101)	6	0412_20.D	XXXXXXXXXX	04/12/23	23:19
102)	7	0412_21.D	XXXXXXXXXX	04/12/23	23:52
103)	8	0412_22.D	XXXXXXXXXX	04/13/23	0:26
104)	9	0412_23.D	XXXXXXXXXX	04/13/23	1:00
105)	10	0412_24.D	XXXXXXXXXX	04/13/23	1:34
106)	11	0412_25.D	XXXXXXXXXX	04/13/23	2:08
107)	12	0412_26.D	XXXXXXXXXX	04/13/23	2:42
108)	13	0412_27.D	XXXXXXXXXX	04/13/23	3:15
109)	14	0412_28.D	XXXXXXXXXX	04/13/23	3:48
110)	15	0412_29.D	XXXXXXXXXX	04/13/23	4:22
111)	16	0412_30.D	XXXXXXXXXX	04/13/23	4:56
112)	17	0412_31.D	XXXXXXXXXX	04/13/23	5:37
113)	18	0412_32.D	XXXXXXXXXX	04/13/23	6:11
114)	19	0412_33.D	XXXXXXXXXX	04/13/23	6:45
115)	20	0412_34.D	XXXXXXXXXX	04/13/23	7:19
116)	21	0412_35.D	XXXXXXXXXX	04/13/23	7:52
117)	22	0412_36.D	XXXXXXXXXX	04/13/23	8:23
118)	23	0412_37.D	XXXXXXXXXX	04/13/23	8:54
119)	24	0412_38.D	XXXXXXXXXX	04/13/23	9:26
120)	25	0412_39.D	XXXXXXXXXX	04/13/23	9:56
121)	26	0412_40.D	XXXXXXXXXX	04/13/23	10:27
122)	27	0413_01.D	XXXXXXXXXX	04/13/23	10:58
123)	28	0413_02.D	XXXXXXXXXX	04/13/23	11:31
124)	29	0413_03.D	XXXXXXXXXX	04/13/23	12:01
125)	30	0413_04.D	XXXXXXXXXX	04/13/23	12:32
126)	1	0413_05.D	XXXXXXXXXX	04/13/23	14:27
127)	1	0413_06.D	XXXXXXXXXX	04/13/23	15:07
128)	2	0413_07.D	XXXXXXXXXX	04/13/23	15:41
129)	3	0413_08.D	XXXXXXXXXX	04/13/23	16:15
130)	4	0413_09.D	XXXXXXXXXX	04/13/23	16:49
131)	5	0413_10.D	XXXXXXXXXX	04/13/23	17:23
132)	6	0413_11.D	XXXXXXXXXX	04/13/23	17:57
133)	7	0413_12.D	XXXXXXXXXX	04/13/23	18:28
134)	8	0413_13.D	XXXXXXXXXX	04/13/23	18:59
135)	9	0413_14.D	XXXXXXXXXX	04/13/23	19:30
136)	10	0413_15.D	XXXXXXXXXX	04/13/23	20:02
137)	11	0413_16.D	XXXXXXXXXX	04/13/23	20:33
138)	12	0413_17.D	XXXXXXXXXX	04/13/23	21:04
139)	13	0413_18.D	XXXXXXXXXX	04/13/23	21:35

140)	14	0413_19.D	XXXXXXXXXX		04/13/23	22:06
141)	15	0413_20.D	XXXXXXXXXX		04/13/23	22:38
142)	16	0413_21.D	XXXXXXXXXX		04/13/23	23:09
143)	17	0413_22.D	XXXXXXXXXX		04/13/23	23:40
144)	18	0413_23.D	XXXXXXXXXX		04/14/23	0:11
145)	19	0413_24.D	XXXXXXXXXX		04/14/23	0:42
146)	20	0413_25.D	XXXXXXXXXX		04/14/23	1:13
147)	21	0413_26.D	XXXXXXXXXX		04/14/23	1:44
148)	22	0413_27.D	XXXXXXXXXX		04/14/23	2:15
149)	23	0413_28.D	XXXXXXXXXX		04/14/23	2:47
150)	24	0413_29.D	XXXXXXXXXX		04/14/23	3:18
151)	25	0413_30.D	XXXXXXXXXX		04/14/23	3:49
152)	26	0413_31.D	XXXXXXXXXX		04/14/23	4:20
153)	27	0413_32.D	XXXXXXXXXX		04/14/23	8:25
154)	28	0413_33.D	XXXXXXXXXX		04/14/23	8:58
155)	29	0414_01.D	BFB TUNE - CCAL 1	1ppb ccal - 1ppb cc	04/14/23	9:30
156)	30	0414_02.D	XXXXXXXXXX		04/14/23	10:01
157)	31	0414_03.D	CN82795 LCS	CN82795 LCS	04/14/23	10:33
158)	1	0414_04.D	CN82795 BLANK	CN82795 BLANK	04/14/23	11:04
159)	2	0414_05.D	CN82795 QC	CN82795 QC	04/14/23	11:59
160)	3	0414_06.D	82795 dup	CN82795 DUP	04/14/23	12:33
161)	4	0414_07.D	XXXXXXXXXX		04/14/23	13:07
162)	5	0414_08.D	XXXXXXXXXX		04/14/23	13:41
163)	6	0414_09.D	XXXXXXXXXX		04/14/23	14:15
164)	7	0414_10.D	XXXXXXXXXX		04/14/23	14:48
165)	8	0414_11.D	XXXXXXXXXX		04/14/23	15:22
166)	9	0414_12.D	XXXXXXXXXX		04/14/23	15:56
167)	10	0414_13.D	XXXXXXXXXX		04/14/23	16:30
168)	11	0414_14.D	XXXXXXXXXX		04/14/23	17:20
169)	12	0414_15.D	XXXXXXXXXX		04/14/23	17:50
170)	13	0414_16.D	XXXXXXXXXX		04/14/23	18:21
171)	14	0414_17.D	XXXXXXXXXX		04/14/23	18:52
172)	15	0414_18.D	XXXXXXXXXX		04/14/23	19:26
173)	16	0414_19.D	XXXXXXXXXX		04/14/23	20:00
174)	17	0414_20.D	XXXXXXXXXX		04/14/23	20:34
175)	18	0414_21.D	IA-1	CN84183	04/14/23	21:11
176)	19	0414_22.D	AMBIENT	CN84185	04/14/23	21:49
177)	20	0414_23.D	IA-5	CN84188	04/14/23	22:23
178)	21	0414_24.D	IA-55	CN84189	04/14/23	22:57
179)	22	0414_25.D	XXXXXXXXXX		04/14/23	23:31
180)	23	0414_26.D	XXXXXXXXXX		04/15/23	0:05
181)	24	0414_27.D	XXXXXXXXXX		04/15/23	0:39
182)	22	0414_28.D	XXXXXXXXXX		04/15/23	1:13
183)	23	0414_29.D	XXXXXXXXXX		04/15/23	1:47
184)	24	0414_30.D	XXXXXXXXXX		04/15/23	2:21
185)	25	0414_31.D	XXXXXXXXXX		04/15/23	2:55
186)	25	0414_32.D	XXXXXXXXXX		04/15/23	3:30
187)	26	0414_33.D	XXXXXXXXXX		04/15/23	4:04
188)	27	0414_34.D	XXXXXXXXXX		04/15/23	4:38
189)	28	0414_35.D	SV-3	CN84182	04/15/23	5:13
190)	29	0415_01.D	XXXXXXXXXX		04/15/23	5:43
191)	30	0415_02.D	XXXXXXXXXX		04/15/23	6:14
192)	31	0415_03.D	XXXXXXXXXX		04/15/23	6:45
193)	32	0415_04.D	XXXXXXXXXX		04/15/23	7:17
194)	33	0415_05.D	XXXXXXXXXX		04/15/23	7:48

Injection Log

Data Directory: H:\AIR2023\CHEM20\04APR\17\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	1	0417_01.D	XXXXXXXXXX		04/17/23 8:36
2)	28	0417_02.D	BFB TUNE - CCAL 1	1ppb ccal - 1ppb cc	04/17/23 9:07
3)	28	0417_03.D	XXXXXXXXXX		04/17/23 9:38
4)	29	0417_04.D	CN84184 LCS	CN84184 LCS	04/17/23 10:11
5)	1	0417_05.D	CN84184 BLANK	CN84184 BLANK	04/17/23 10:42
6)	2	0417_06.D	XXXXXXXXXX		04/17/23 11:13
7)	3	0417_07.D	XXXXXXXXXX		04/17/23 11:46
8)	4	0417_08.D	XXXXXXXXXX		04/17/23 12:19
9)	5	0417_09.D	XXXXXXXXXX		04/17/23 13:32
10)	6	0417_10.D	XXXXXXXXXX		04/17/23 14:05
11)	7	0417_11.D	XXXXXXXXXX		04/17/23 14:39
12)	8	0417_12.D	SV-4	CN84184	04/17/23 15:16
13)	9	0417_13.D	SV-4 DUP	CN84184 DUP	04/17/23 15:54
14)	6	0417_14.D	XXXXXXXXXX		04/17/23 16:26
15)	7	0417_15.D	XXXXXXXXXX		04/17/23 16:57
16)	8	0417_16.D	XXXXXXXXXX		04/17/23 17:28
17)	9	0417_17.D	XXXXXXXXXX		04/17/23 18:00
18)	10	0417_18.D	XXXXXXXXXX		04/17/23 18:31
19)	11	0417_19.D	XXXXXXXXXX		04/17/23 19:02
20)	12	0417_20.D	SV-5	CN84186	04/17/23 19:39
21)	13	0417_21.D	SV-2	CN84187	04/17/23 20:16
22)	14	0417_22.D	XXXXXXXXXX		04/17/23 20:50
23)	15	0417_23.D	XXXXXXXXXX		04/17/23 21:24
24)	16	0417_24.D	XXXXXXXXXX		04/17/23 21:58
25)	17	0417_25.D	XXXXXXXXXX		04/17/23 22:36
26)	18	0417_26.D	XXXXXXXXXX		04/17/23 23:09
27)	19	0417_27.D	XXXXXXXXXX		04/17/23 23:43
28)	20	0417_28.D	XXXXXXXXXX		04/18/23 0:18
29)	21	0417_29.D	XXXXXXXXXX		04/18/23 0:51
30)	22	0417_30.D	XXXXXXXXXX		04/18/23 1:25
31)	23	0417_31.D	XXXXXXXXXX		04/18/23 1:59
32)	24	0417_32.D	XXXXXXXXXX		04/18/23 2:33
33)	25	0417_33.D	XXXXXXXXXX		04/18/23 3:07
34)	26	0417_34.D	XXXXXXXXXX		04/18/23 3:45
35)	27	0417_35.D	XXXXXXXXXX		04/18/23 4:22
36)	28	0417_36.D	XXXXXXXXXX		04/18/23 4:59
37)	29	0417_37.D	XXXXXXXXXX		04/18/23 5:30
38)	30	0417_38.D	XXXXXXXXXX		04/18/23 6:03
39)	1	0417_39.D	XXXXXXXXXX		04/18/23 6:33
40)	28	0417_40.D	XXXXXXXXXX		04/18/23 7:05
41)	28	0417_41.D	XXXXXXXXXX		04/18/23 7:36
42)	29	0417_42.D	XXXXXXXXXX		04/18/23 8:08
43)	1	0417_43.D	XXXXXXXXXX		04/18/23 8:39
44)	37	0417_44.D	XXXXXXXXXX		04/18/23 9:29
45)	38	0417_45.D	XXXXXXXXXX		04/18/23 10:00
46)	39	0417_46.D	XXXXXXXXXX		04/18/23 10:32
47)	40	0417_47.D	XXXXXXXXXX		04/18/23 11:03
48)	41	0417_48.D	XXXXXXXXXX		04/18/23 11:34
49)	42	0417_49.D	XXXXXXXXXX		04/18/23 12:08
50)	43	0417_50.D	XXXXXXXXXX		04/18/23 12:40
51)	44	0417_51.D	XXXXXXXXXX		04/18/23 13:11
52)	45	0417_52.D	XXXXXXXXXX		04/18/23 13:42
53)	46	0417_53.D	XXXXXXXXXX		04/18/23 14:16
54)	47	0417_54.D	XXXXXXXXXX		04/18/23 14:50
55)	48	0417_55.D	XXXXXXXXXX		04/18/23 15:24
56)	49	0417_56.D	XXXXXXXXXX		04/18/23 15:58
57)	50	0417_57.D	XXXXXXXXXX		04/18/23 16:32
58)	51	0417_58.D	XXXXXXXXXX		04/18/23 17:06
59)	52	0417_59.D	XXXXXXXXXX		04/18/23 17:40
60)	53	0417_60.D	XXXXXXXXXX		04/18/23 18:14
61)	54	0417_61.D	XXXXXXXXXX		04/18/23 18:45
62)	55	0417_62.D	XXXXXXXXXX		04/18/23 19:16
63)	56	0417_63.D	XXXXXXXXXX		04/18/23 19:47
64)	57	0417_64.D	XXXXXXXXXX		04/18/23 20:18
65)	58	0417_65.D	XXXXXXXXXX		04/18/23 20:49
66)	59	0417_66.D	XXXXXXXXXX		04/18/23 21:19

67)	60	0417_67.D	XXXXXXXXXX	04/18/23	21:50
68)	61	0417_68.D	XXXXXXXXXX	04/18/23	22:21
69)	1	0417_69.D	XXXXXXXXXX	04/18/23	22:51
70)	2	0417_70.D	XXXXXXXXXX	04/18/23	23:25
71)	3	0417_71.D	XXXXXXXXXX	04/18/23	23:59
72)	4	0417_72.D	XXXXXXXXXX	04/19/23	0:30
73)	5	0417_73.D	XXXXXXXXXX	04/19/23	1:01
74)	6	0417_74.D	XXXXXXXXXX	04/19/23	1:32
75)	1	0417_75.D	XXXXXXXXXX	04/19/23	2:02
76)	28	0417_76.D	XXXXXXXXXX	04/19/23	2:33
77)	28	0417_77.D	XXXXXXXXXX	04/19/23	3:04
78)	29	0417_78.D	XXXXXXXXXX	04/19/23	3:37
79)	1	0417_79.D	XXXXXXXXXX	04/19/23	4:07

Injection Log

Data Directory: H:\AIR2023\CHEM24\04APR\03\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0403_16.D	XXXXXXXXXX		N/A
2)	0	0404_37.D	XXXXXXXXXX		N/A
3)	1	0403_01.D	XXXXXXXXXX		04/03/23 9:04
4)	2	0403_02.D	XXXXXXXXXX		04/03/23 9:39
5)	2	0403_03.D	XXXXXXXXXX		04/03/23 10:16
6)	3	0403_04.D	XXXXXXXXXX		04/03/23 10:52
7)	4	0403_05.D	XXXXXXXXXX		04/03/23 11:33
8)	5	0403_06.D	XXXXXXXXXX		04/03/23 12:30
9)	1	0403_07.D	XXXXXXXXXX		04/03/23 13:03
10)	1	0403_08.D	XXXXXXXXXX		04/03/23 13:36
11)	2	0403_09.D	XXXXXXXXXX		04/03/23 14:09
12)	3	0403_10.D	XXXXXXXXXX		04/03/23 14:43
13)	4	0403_11.D	XXXXXXXXXX		04/03/23 15:16
14)	5	0403_12.D	XXXXXXXXXX		04/03/23 15:49
15)	6	0403_13.D	XXXXXXXXXX		04/03/23 16:22
16)	7	0403_14.D	XXXXXXXXXX		04/03/23 16:55
17)	8	0403_15.D	XXXXXXXXXX		04/03/23 17:28
18)	10	0403_17.D	XXXXXXXXXX		04/03/23 18:14
19)	11	0403_18.D	XXXXXXXXXX		04/03/23 18:48
20)	12	0403_19.D	XXXXXXXXXX		04/03/23 19:23
21)	13	0403_20.D	XXXXXXXXXX		04/03/23 20:00
22)	14	0403_21.D	XXXXXXXXXX		04/03/23 20:32
23)	15	0403_22.D	XXXXXXXXXX		04/03/23 21:05
24)	16	0403_23.D	XXXXXXXXXX		04/03/23 21:39
25)	17	0403_24.D	XXXXXXXXXX		04/03/23 22:12
26)	18	0403_25.D	XXXXXXXXXX		04/03/23 22:45
27)	19	0403_26.D	XXXXXXXXXX		04/03/23 23:19
28)	20	0403_27.D	XXXXXXXXXX		04/03/23 23:51
29)	21	0403_28.D	XXXXXXXXXX		04/04/23 1:10
30)	22	0403_29.D	XXXXXXXXXX		04/04/23 1:43
31)	23	0403_30.D	XXXXXXXXXX		04/04/23 2:17
32)	24	0403_31.D	XXXXXXXXXX		04/04/23 2:50
33)	25	0403_32.D	XXXXXXXXXX		04/04/23 3:24
34)	26	0403_33.D	XXXXXXXXXX		04/04/23 6:49
35)	28	0404_02.D	XXXXXXXXXX		04/04/23 7:24
36)	29	0404_03.D	XXXXXXXXXX		04/04/23 7:58
37)	30	0404_04.D	XXXXXXXXXX		04/04/23 8:35
38)	31	0404_05.D	XXXXXXXXXX		04/04/23 9:07
39)	32	0404_06.D	XXXXXXXXXX		04/04/23 10:08
40)	33	0404_07.D	XXXXXXXXXX		04/04/23 10:45
41)	34	0404_08.D	XXXXXXXXXX		04/04/23 11:22
42)	35	0404_09.D	XXXXXXXXXX		04/04/23 12:00
43)	1	0404_10.D	XXXXXXXXXX		04/04/23 12:33
44)	2	0404_11.D	XXXXXXXXXX		04/04/23 13:06
45)	3	0404_12.D	XXXXXXXXXX		04/04/23 13:39
46)	4	0404_13.D	XXXXXXXXXX		04/04/23 14:13
47)	5	0404_14.D	XXXXXXXXXX		04/04/23 14:46
48)	6	0404_15.D	XXXXXXXXXX		04/04/23 15:19
49)	7	0404_16.D	XXXXXXXXXX		04/04/23 15:53
50)	8	0404_17.D	XXXXXXXXXX		04/04/23 16:26
51)	9	0404_18.D	XXXXXXXXXX		04/04/23 16:59
52)	10	0404_19.D	XXXXXXXXXX		04/04/23 17:33
53)	11	0404_20.D	XXXXXXXXXX		04/04/23 18:36
54)	12	0404_21.D	XXXXXXXXXX		04/04/23 19:13
55)	13	0404_22.D	XXXXXXXXXX		04/04/23 19:46
56)	14	0404_23.D	XXXXXXXXXX		04/04/23 20:20
57)	15	0404_24.D	XXXXXXXXXX		04/04/23 20:53
58)	16	0404_25.D	XXXXXXXXXX		04/04/23 21:28
59)	17	0404_26.D	XXXXXXXXXX		04/04/23 22:02
60)	18	0404_27.D	XXXXXXXXXX		04/04/23 22:40
61)	19	0404_28.D	XXXXXXXXXX		04/04/23 23:12
62)	20	0404_29.D	XXXXXXXXXX		04/04/23 23:46
63)	21	0404_30.D	XXXXXXXXXX		04/05/23 10:28
64)	22	0404_31.D	XXXXXXXXXX		04/05/23 11:05
65)	23	0404_32.D	CANISTER BLK 2926	CANISTER BLK 2926	04/05/23 11:43
66)	24	0404_33.D	CANISTER BLK 2927	CANISTER BLK 2927	04/05/23 12:20

67) 25 0404_34.D xxxxxxxxxxxx
68) 26 0404_35.D xxxxxxxxxxxx
69) 27 0404_36.D xxxxxxxxxxxx

04/05/23 14:28
04/05/23 17:19
04/05/23 17:57

Injection Log

Data Directory: H:\AIR2023\CHEM39\04APR\13\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0414_32.D	XXXXXXXXXX		N/A
2)	8	0413_01.D	XXXXXXXXXX		04/13/23 13:02
3)	9	0413_02.D	XXXXXXXXXX		04/13/23 16:20
4)	11	0413_04.D	BFB TUNE	0/0	04/13/23 16:54
5)	2	0413_05.D	ICAL 0.01	0.01 ; to1503p	04/13/23 17:29
6)	3	0413_06.D	ICAL 0.02	0.02 ; to1503p	04/13/23 18:06
7)	4	0413_07.D	ICAL 0.035	0.035 ; to1503p	04/13/23 18:43
8)	5	0413_08.D	ICAL 0.05	0.05 ; to1503p	04/13/23 19:22
9)	6	0413_09.D	ICAL 0.1	0.10 ; to1503q	04/13/23 19:57
10)	7	0413_10.D	ICAL 0.2	0.2 ; to1503q	04/13/23 20:33
11)	8	0413_11.D	ICAL 0.5	0.5 ; to1503q	04/13/23 21:11
12)	9	0413_12.D	ICAL 2.5	2.5 ; to1503r	04/13/23 21:49
13)	10	0413_13.D	ICAL 5	5.0 ; to1503s	04/13/23 22:25
14)	11	0413_14.D	ICAL 25	25 ; to1503s	04/13/23 23:04
15)	12	0413_15.D	ICAL 40	40 ; to1503s	04/13/23 23:44
16)	13	0413_16.D	ICAL 1	1.0 ; to1503r	04/14/23 0:21
17)	14	0413_17.D	ICAL 10	10 ; to1503s	04/14/23 0:57
18)	16	0413_18.D	XXXXXXXXXX		04/14/23 1:36
19)	17	0413_19.D	XXXXXXXXXX		04/14/23 2:10
20)	17	0413_20.D	XXXXXXXXXX		04/14/23 2:46
21)	17	0413_21.D	XXXXXXXXXX		04/14/23 3:24
22)	17	0413_22.D	XXXXXXXXXX		04/14/23 4:02
23)	18	0413_23.D	XXXXXXXXXX		04/14/23 4:41
24)	19	0413_24.D	XXXXXXXXXX		04/14/23 5:20
25)	20	0413_25.D	XXXXXXXXXX		04/14/23 5:59
26)	21	0413_26.D	XXXXXXXXXX		04/14/23 6:38
27)	22	0413_27.D	XXXXXXXXXX		04/14/23 7:16
28)	23	0413_28.D	XXXXXXXXXX		04/14/23 7:55
29)	24	0413_29.D	XXXXXXXXXX		04/14/23 8:34
30)	25	0413_30.D	XXXXXXXXXX		04/14/23 9:16
31)	26	0413_31.D	XXXXXXXXXX		04/14/23 9:59
32)	27	0413_32.D	XXXXXXXXXX		04/14/23 10:41
33)	28	0413_33.D	XXXXXXXXXX		04/14/23 11:24
34)	29	0413_34.D	XXXXXXXXXX		04/14/23 12:03
35)	30	0413_35.D	XXXXXXXXXX		04/14/23 12:39
36)	31	0413_36.D	XXXXXXXXXX		04/14/23 13:16
37)	32	0413_37.D	XXXXXXXXXX		04/14/23 13:50
38)	33	0413_38.D	XXXXXXXXXX		04/14/23 14:32
39)	34	0413_39.D	XXXXXXXXXX		04/14/23 15:14
40)	35	0413_40.D	XXXXXXXXXX		04/14/23 16:21
41)	36	0413_41.D	XXXXXXXXXX		04/14/23 19:45
42)	41	0414_01.D	XXXXXXXXXX		04/14/23 20:21
43)	42	0414_02.D	XXXXXXXXXX		04/14/23 20:58
44)	43	0414_03.D	XXXXXXXXXX		04/14/23 21:37
45)	44	0414_04.D	XXXXXXXXXX		04/14/23 22:11
46)	45	0414_05.D	XXXXXXXXXX		04/14/23 22:47
47)	46	0414_06.D	XXXXXXXXXX		04/14/23 23:24
48)	47	0414_07.D	XXXXXXXXXX		04/15/23 0:00
49)	48	0414_08.D	XXXXXXXXXX		04/15/23 0:36
50)	49	0414_09.D	XXXXXXXXXX		04/15/23 1:12
51)	50	0414_10.D	XXXXXXXXXX		04/15/23 1:46
52)	51	0414_11.D	XXXXXXXXXX		04/15/23 2:25
53)	52	0414_12.D	XXXXXXXXXX		04/15/23 3:07
54)	53	0414_13.D	XXXXXXXXXX		04/15/23 3:47
55)	53	0414_14.D	XXXXXXXXXX		04/15/23 11:12
56)	54	0414_15.D	XXXXXXXXXX		04/15/23 11:50
57)	55	0414_16.D	XXXXXXXXXX		04/15/23 12:29
58)	56	0414_17.D	XXXXXXXXXX		04/15/23 13:08
59)	57	0414_18.D	XXXXXXXXXX		04/15/23 13:47
60)	58	0414_19.D	XXXXXXXXXX		04/15/23 14:26
61)	59	0414_20.D	XXXXXXXXXX		04/15/23 15:04
62)	60	0414_21.D	XXXXXXXXXX		04/15/23 15:46
63)	61	0414_22.D	XXXXXXXXXX		04/15/23 16:25
64)	62	0414_23.D	XXXXXXXXXX		04/15/23 17:04
65)	63	0414_24.D	XXXXXXXXXX		04/15/23 17:43
66)	64	0414_25.D	XXXXXXXXXX		04/15/23 18:22

67) 68 0414_29.D XXXXXXXXXXXX
68) 69 0414_30.D XXXXXXXXXXXX
69) 70 0414_31.D XXXXXXXXXXXX

04/15/23 18:55
04/15/23 19:31
04/15/23 20:08

Injection Log

Data Directory: H:\AIR2023\CHEM39\04APR\17\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	33	0417_02.D	BFB TUNE - CCAL 1	1ppb ccal - 1ppb cc	04/17/23 12:14
2)	33	0417_03.D	XXXXXXXXXX		04/17/23 12:51
3)	34	0417_04.D	CN84179 LCS	CN84179 LCS	04/17/23 13:29
4)	35	0417_05.D	CN84179 BLANK	CN84179 BLANK	04/17/23 14:03
5)	36	0417_06.D	XXXXXXXXXX		04/17/23 14:39
6)	37	0417_07.D	XXXXXXXXXX		04/17/23 15:14
7)	38	0417_08.D	XXXXXXXXXX		04/17/23 15:50
8)	39	0417_09.D	CN84179 QC	CN84179 QC	04/17/23 16:32
9)	40	0417_10.D	84179 0.5x;2x dup	CN84179 DUP	04/17/23 17:14
10)	41	0417_11.D	SV-1	CN84181	04/17/23 17:56
11)	42	0417_12.D	XXXXXXXXXX		04/17/23 18:32
12)	43	0417_13.D	XXXXXXXXXX		04/17/23 19:09
13)	44	0417_14.D	XXXXXXXXXX		04/17/23 19:45
14)	45	0417_15.D	XXXXXXXXXX		04/17/23 20:20
15)	46	0417_16.D	SV-3 140X	CN84182 140X	04/17/23 20:56
16)	47	0417_17.D	XXXXXXXXXX		04/17/23 21:32
17)	48	0417_18.D	XXXXXXXXXX		04/17/23 22:11
18)	49	0417_19.D	XXXXXXXXXX		04/17/23 22:50
19)	50	0417_20.D	XXXXXXXXXX		04/17/23 23:28
20)	51	0417_21.D	XXXXXXXXXX		04/18/23 0:08
21)	52	0417_22.D	XXXXXXXXXX		04/18/23 0:47
22)	53	0417_23.D	XXXXXXXXXX		04/18/23 1:26
23)	54	0417_24.D	XXXXXXXXXX		04/18/23 2:05
24)	55	0417_25.D	XXXXXXXXXX		04/18/23 2:44
25)	56	0417_26.D	XXXXXXXXXX		04/18/23 3:23
26)	57	0417_27.D	XXXXXXXXXX		04/18/23 4:03
27)	58	0417_28.D	XXXXXXXXXX		04/18/23 4:42
28)	59	0417_29.D	XXXXXXXXXX		04/18/23 5:21
29)	60	0417_30.D	XXXXXXXXXX		04/18/23 6:00
30)	61	0417_31.D	XXXXXXXXXX		04/18/23 6:39
31)	62	0417_32.D	XXXXXXXXXX		04/18/23 7:16
32)	63	0417_33.D	XXXXXXXXXX		04/18/23 7:52
33)	64	0417_34.D	XXXXXXXXXX		04/18/23 8:29
34)	65	0417_35.D	XXXXXXXXXX		04/18/23 9:05
35)	66	0417_36.D	XXXXXXXXXX		04/18/23 9:41
36)	67	0417_37.D	XXXXXXXXXX		04/18/23 10:18
37)	68	0418_01.D	XXXXXXXXXX		04/18/23 10:52
38)	69	0418_02.D	XXXXXXXXXX		04/18/23 11:29
39)	70	0418_03.D	XXXXXXXXXX		04/18/23 12:05
40)	71	0418_04.D	XXXXXXXXXX		04/18/23 12:44
41)	72	0418_05.D	XXXXXXXXXX		04/18/23 13:18
42)	73	0418_06.D	XXXXXXXXXX		04/18/23 13:57
43)	74	0418_07.D	XXXXXXXXXX		04/18/23 14:36
44)	76	0418_09.D	XXXXXXXXXX		04/18/23 15:47
45)	77	0418_10.D	XXXXXXXXXX		04/18/23 16:24
46)	78	0418_11.D	XXXXXXXXXX		04/18/23 17:00
47)	79	0418_12.D	XXXXXXXXXX		04/18/23 17:36
48)	80	0418_13.D	XXXXXXXXXX		04/18/23 18:12
49)	81	0418_14.D	XXXXXXXXXX		04/18/23 19:39
50)	82	0418_15.D	XXXXXXXXXX		04/18/23 20:56
51)	83	0418_16.D	XXXXXXXXXX		04/18/23 21:35
52)	84	0418_17.D	XXXXXXXXXX		04/18/23 22:13
53)	85	0418_18.D	XXXXXXXXXX		04/18/23 22:52
54)	86	0418_19.D	XXXXXXXXXX		04/18/23 23:31
55)	87	0418_20.D	XXXXXXXXXX		04/19/23 0:10
56)	88	0418_21.D	XXXXXXXXXX		04/19/23 0:48
57)	89	0418_22.D	XXXXXXXXXX		04/19/23 1:27
58)	90	0418_23.D	XXXXXXXXXX		04/19/23 2:06
59)	91	0418_24.D	XXXXXXXXXX		04/19/23 2:44
60)	92	0418_25.D	XXXXXXXXXX		04/19/23 9:01
61)	93	0418_26.D	XXXXXXXXXX		04/19/23 9:40
62)	1	0418_27.D	XXXXXXXXXX		04/19/23 10:16
63)	12	0418_28.D	XXXXXXXXXX		04/19/23 10:53

**DATA USABILITY SUMMARY REPORT
FOR APRIL 2023 AIR SAMPLING
AWARD PACKAGING CORP. SITE,
625 SOUTH STREET, GARDEN CITY, NY
SAMPLE DELIVERY GROUP # GCN84181**

This DUSR was prepared using the entire original laboratory report, including the sample data summary report and the extended data package. The sampling event included two indoor air sample, five sub-slab soil vapor samples and one outdoor ambient air sample. The duplicate sampling for QA/QC purposes was conducted on primary indoor air sample.

Sample Collection Procedures

The samples were collected in laboratory-provided batch-certified Summa canisters equipped with laboratory calibrated flow controllers. Collection of each sample was performed over an approximate eight-hour period. Each of the flow controllers for the primary samples was closed when the vacuum in the canister was nearly depleted but some vacuum remained. Chain-of-custody documentation was present and complete.

Sample Analyses

The samples were transported to the laboratory and analyzed by Phoenix Environmental Laboratories, Inc. at their Manchester, Connecticut facility, which is NYSDOH-certified for the analyses performed. The samples were analyzed for volatile organic compounds (VOCs) using Method TO-15, with low-level analyses for the indoor and ambient air samples. The analytical methods and analytes are appropriate for the intended use of the data. The sample holding times were met and no problems with sample receipt or handling were reported by the laboratory. The samples were logged in by the lab based on the sample IDs on the tags and the correct can numbers printed on the canisters themselves were used.

Several compounds were identified outside the continuing calibration criteria including bromoform, 1,2,4-trichlorobenzene, benzyl chloride and dibromochloromethane which were biased high. Based on the provided information, these exceedances are not expected to affect the sample data.

Surrogate recoveries were complete and within limits. Internal standards were also noted to be complete and within limits.

Duplicate samples were collected and utilized to evaluate the precision of the laboratory analyses. The results from the duplicate sample (IA-55) and the associated parent sample (IA-5) are very similar. Based on the blind duplicate sample results, the laboratory results are likely to be precise.

Duplicate samples analysis were also performed by the laboratory and utilized to evaluate the precision of the laboratory analyses. The results from the laboratory duplicate sample and the associated parent sample are very similar. Based on the laboratory's duplicate sample results, the laboratory results are likely to be precise.

A method blank (MB) sample was analyzed by the laboratory to evaluate the potential for cross-contamination associated with the sample preparation and analysis. The MB results did not show detectable concentrations of VOCs and, therefore, cross-contamination associated with sample preparation or analysis does not appear to affect the sample data.

Air canister cleanings logs are maintained by the laboratory to evaluate the potential for cross-contamination associated with the sample containers. The air canister cleanings logs show that cleaning measures are taken to prevent cross-contamination associated with sample containers.

A Laboratory control sample (LCS) was used by the laboratory to verify the accuracy and precision of the analyses. The LCS percent recoveries (%REC) were within established guidelines with the exception of ethanol and isopropyl alcohol which were above criteria, these compounds are not compounds of concern for the site. Based on this information, the analytical results for the VOCs of concern for the site are anticipated to be precise and accurate.

Questions and Responses

1. Is the data package complete as defined under the current requirements for the NYSDEC ASP Category B or USEPA CLP deliverables?

The data package is complete. The external and internal chain of custody forms are present and complete. The case narrative and sample analysis summaries are present and complete. The analytical QA/QC summary forms, including surrogate recovery forms, LCS forms, IDL forms, initial and continuing calibration summary forms, standards raw data, tuning criteria report, and MB data are all present and complete. The data report forms, including sample prep logs, injection logs, canister cleaning logs, and examples of the calculations used to determine the sample concentrations are all present and complete. The raw data used to identify and quantify the contract-specified analytes are present and complete.

Data completeness for the field program was also verified. The numbers and types of samples collected are in agreement with the work plan.

2. Have all holding times been met?

All samples were received and analyzed within the EPA-recommended holding times for the analyses performed.

3. Do all the QC data: blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls and sample data, fall within the protocol-required limits and specifications?

Yes – all of QC data were within the protocol required limits and specifications.

4. Have all of the data been generated using established and agreed-upon analytical protocols?

Yes – all of the data were generated using the Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

5. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?

Yes – a representative number of raw data results were compared with the reported data results to confirm that the reported analytical results (identification and quantification) are substantiated by the raw data.

6. Have the correct data qualifiers been used?

Yes

7. Have any quality control (QC) exceedances been specifically noted in the DUSR and have the corresponding QC summary sheets from the data package been attached to the DUSR?

Yes QC exceedances were noted, the corresponding summary sheets are attached.

Conclusions

The indoor/outdoor air and sub-slab soil vapor samples were collected in accordance with NYSDOH guidance. No field or laboratory conditions occurred that would result in non-valid analytical data for the VOCs of concern at this site. The data appear to be adequate for their intended purpose.

S:\Rococo Holding Corp\SVI Sampling 2023\SVI DUSR April 2023.Docx



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone: 860.645.1102 • Fax: 860.645.0823

NY ANALYTICAL SERVICES PROTOCOL DATA PACKAGE

FPM Group
AWARD PACKAGING

GCN84181

Ver 1



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



SDG Comments

June 01, 2023

SDG I.D.: GCN84181

Any compound that is not detected above the MDL/LOD is reported as ND on the report and is reported in the electronic deliverables (EDD) as <RL or U at the RL per state and EPA guidance.

Version 1: Analysis results minus raw data.

Version 2: Complete report with raw data.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102



QA/QC Report

June 01, 2023

QA/QC Data

SDG I.D.: GCN84181

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 672894 (ppbv), QC Sample No: CN82795 (CN84182, CN84183, CN84185, CN84188, CN84189)												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.055	ND	0.38	96	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.500	ND	2.73	105	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.031	ND	0.21	102	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.033	ND	0.18	103	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.450	ND	1.82	105	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.500	ND	1.98	113	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.280	ND	2.08	115	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.500	ND	2.46	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.050	ND	0.38	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.500	ND	3.00	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.050	ND	0.20	111	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.061	ND	0.28	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.500	ND	3.49	107	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.500	ND	2.46	102	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.043	ND	0.10	106	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.500	ND	3.00	104	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.043	ND	0.26	101	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.160	ND	0.58	105	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.500	ND	2.05	118	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.500	ND	2.46	104	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.500	ND	2.74	100	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.500	ND	2.05	115	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	1.00	ND	2.37	114	719	693	303	292	3.7	70 - 130	25
Acrylonitrile	ND	0.500	ND	1.08	116	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.041	ND	0.13	100	0.28	0.30	0.089	0.094	NC	70 - 130	25
Benzyl chloride	ND	0.048	ND	0.25	109	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.037	ND	0.25	105	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.500	ND	5.17	95	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.500	ND	1.94	102	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.500	ND	1.56	117	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.008	ND	0.05	101	0.43	0.41	0.068	0.066	3.0	70 - 130	25
Chlorobenzene	ND	0.500	ND	2.30	99	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.500	ND	1.32	99	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.051	ND	0.25	105	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.500	ND	1.03	111	1.16	1.16	0.561	0.562	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.500	ND	1.98	104	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.150	ND	0.68	104	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.500	ND	1.72	99	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.500	ND	4.26	101	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.500	ND	2.47	107	ND	ND	ND	ND	NC	70 - 130	25
Ethanol	ND	0.500	ND	0.94	151	22.6	22.8	12.0	12.1	0.8	70 - 130	25

QA/QC Data

SDG I.D.: GCN84181

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
1,1,1-Trichloroethane	ND	0.180	ND	0.98	101	ND	0.00	ND	0	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	100	ND	0.00	ND	0	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.180	ND	0.98	101	ND	0.00	ND	0	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	104	ND	0.00	ND	0	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	107	ND	0.00	ND	0	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	119	ND	0.00	ND	0	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	104	ND	0.00	ND	0	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	102	ND	0.00	ND	0	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	106	ND	0.00	ND	0	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	107	ND	0.00	ND	0	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	99	ND	0.33	ND	0.071	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	103	ND	0.00	ND	0	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	101	ND	0.00	ND	0	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	102	ND	0.00	ND	0	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	107	ND	0.00	ND	0	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	100	ND	0.00	ND	0	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	104	ND	0.00	ND	0	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	112	ND	0.00	ND	0	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	103	ND	0.00	ND	0	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	100	ND	0.00	ND	0	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	108	2.67	2.64	0.651	0.645	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	105	37.7	37.5	15.9	15.8	0.6	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	106	ND	0.00	ND	0	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	98	ND	0.62	ND	0.193	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	105	ND	0.00	ND	0	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	100	ND	0.00	ND	0	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	88	ND	0.00	ND	0	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	97	ND	0.00	ND	0	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	104	2.12	2.23	0.682	0.718	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	91	0.30	0.30	0.048	0.048	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	100	ND	0.00	ND	0	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	94	ND	0.00	ND	0	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	101	ND	0.63	ND	0.129	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	104	1.47	1.47	0.714	0.711	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	103	ND	0.00	ND	0	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	99	ND	0.00	ND	0	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	96	ND	0.00	ND	0	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	94	ND	0.00	ND	0	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	101	2.17	2.21	0.440	0.447	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	141	77.6 E	76.6	41.2 E	40.7	1.2	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	79	ND	0.00	ND	0	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	99	ND	0.00	ND	0	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	108	2.08	2.14	0.509	0.523	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	117	ND	0.00	ND	0	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	103	1.55	1.56	0.440	0.442	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	137	3.51	3.44	1.43	1.40	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	101	ND	0.00	ND	0	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	102	1.60	1.51	0.368	0.349	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	112	2.07	2.08	0.703	0.707	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	104	ND	0.00	ND	0	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	109	ND	1.20	ND	0.346	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	101	ND	0.00	ND	0	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	96	ND	0.68	ND	0.156	NC	70 - 130	25

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM20 Calibration Date: 04/14/23 Time: 09:30

Lab File Id: 0414_01.D Init. Calib. Date(s): 04/10/23 04/10/23

Heated Purge (Y/N): Y Init. Calib. Times: 10:01 16:24

GC Column: RTX-1 60M Method File: 20_AIR_0410.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.868	0.908		-4.6	30
cis-1,3-Dichloropropene	0.459	0.407		11.3	30
4-Methyl-2-pentanone(MIBK)	1.136	1.118		1.6	30
trans-1,3-Dichloropropene	0.432	0.373		13.7	30
1,1,2-Trichloroethane	0.359	0.322		10.3	30
Toluene	1.056	0.963		8.8	30
Dibromochloromethane	0.659	0.501		24.0	30
2-Hexanone(MBK)	1.039	1.034		0.5	30
1,2-Dibromoethane(EDB)	0.596	0.544		8.7	30
Tetrachloroethene	0.566	0.497		12.2	30
1,1,1,2-Tetrachloroethane	0.961	0.791		17.7	30
Chlorobenzene	1.768	1.754		0.8	30
Ethylbenzene	2.844	2.641		7.1	30
m,p-Xylene	2.126	1.606		24.5	30
Bromoform	1.281	0.862		32.7 #	30
Styrene	1.674	1.544		7.8	30
1,1,2,2-Tetrachloroethane	1.621	1.518		6.4	30
o-Xylene	2.282	2.196		3.8	30
Isopropylbenzene	3.076	3.010		2.1	30
4-Ethyltoluene	3.183	2.899		8.9	30
1,3,5-Trimethylbenzene	2.684	2.552		4.9	30
1,2,4-Trimethylbenzene	2.725	2.525		7.3	30
Benzyl chloride	2.056	1.455		29.2	30
1,3-Dichlorobenzene	1.911	1.653		13.5	30
1,4-Dichlorobenzene	1.815	1.613		11.1	30
sec-Butylbenzene	3.790	3.694		2.5	30
4-Isopropyltoluene	3.637	3.323		8.6	30
1,2-Dichlorobenzene	1.818	1.518		16.5	30
n-Butylbenzene	3.000	2.743		8.6	30
1,2,4-Trichlorobenzene	1.193	0.756		36.6 #	30
Hexachlorobutadiene	1.201	0.879		26.8	30
1,2-Dichlorotetrafluoroethane(sim)	2.202	1.957		11.1	30
Vinyl Chloride(sim)	1.054	0.973		7.7	30
Bromomethane(sim)	0.876	0.745		15.0	30
Trichlorofluoromethane(sim)	2.372	2.319		2.2	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM20 Calibration Date: 04/14/23 Time: 09:30

Lab File Id: 0414_01.D Init. Calib. Date(s): 04/10/23 04/10/23

Heated Purge (Y/N): Y Init. Calib. Times: 10:01 16:24

GC Column: RTX-1 60M Method File: 20_AIR_0410.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.625	1.403		13.7	30
1,1,1-Trichloroethane(sim)	2.208	1.946		11.9	30
Benzene(sim)	3.034	2.469		18.6	30
Carbon Tetrachloride(sim)	1.960	1.667		14.9	30
1,1-Dichloroethene(sim)	1.871	1.753		6.3	30
Trichlorotrifluoroethane(sim)	1.890	1.886		0.2	30
Trans-1,2-Dichloroethene(sim)	1.758	1.564		11.0	30
1,1-Dichloroethane(sim)	2.100	1.927		8.2	30
Cis-1,2-Dichloroethene(sim)	1.817	1.495		17.7	30
Chloroform(sim)	2.093	1.913		8.6	30
1,2-dichloropropane(sim)	0.462	0.399		13.6	30
Bromodichloromethane(sim)	0.665	0.514		22.7	30
Trichloroethene(sim)	0.506	0.427		15.6	30
1,4-Dioxane(sim)	0.190	0.179		5.8	30
cis-1,3-Dichloropropene(sim)	0.511	0.443		13.3	30
1,1,2-Trichloroethane(sim)	0.416	0.322		22.6	30
Dibromochloromethane(sim)	0.748	0.546		27.0	30
1,2-Dibromoethane(EDB)(sim)	0.639	0.544		14.9	30
Tetrachloroethene(sim)	0.742	0.596		19.7	30
Bromoform(sim)	1.500	1.047		30.2 #	30
m,p-Xylene(sim)	2.393	2.078		13.2	30
1,1,2,2-Tetrachloroethane(sim)	1.913	1.592		16.8	30
Benzyl chloride(sim)	2.123	1.390		34.5 #	30
1,3-Dichlorobenzene(sim)	2.246	1.936		13.8	30
1,4-Dichlorobenzene(sim)	2.232	1.613		27.7	30
sec-Butylbenzene(sim)	4.741	3.998		15.7	30
4-Isopropyltoluene(sim)	4.282	3.342		22.0	30
1,2-Dichlorobenzene(sim)	2.104	1.726		18.0	30
n-Butylbenzene(sim)	3.533	2.743		22.4	30
1,2,4-Trichlorobenzene(sim)	1.125	0.875		22.2	30
Hexachlorobutadiene(sim)	1.241	0.878		29.3	30
% Bromofluorobenzene	1.366	1.399		-2.4	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM20 Calibration Date: 04/17/23 Time: 09:07

Lab File Id: 0417_02.D Init. Calib. Date(s): 04/10/23 04/10/23

Heated Purge (Y/N): Y Init. Calib. Times: 10:01 16:24

GC Column: RTX-1 60M Method File: 20_AIR_0410.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.868	0.863		0.6	30
cis-1,3-Dichloropropene	0.459	0.400		12.9	30
4-Methyl-2-pentanone(MIBK)	1.136	1.144		-0.7	30
trans-1,3-Dichloropropene	0.432	0.390		9.7	30
1,1,2-Trichloroethane	0.359	0.340		5.3	30
Toluene	1.056	0.978		7.4	30
Dibromochloromethane	0.659	0.476		27.8	30
2-Hexanone(MBK)	1.039	1.026		1.3	30
1,2-Dibromoethane(EDB)	0.596	0.553		7.2	30
Tetrachloroethene	0.566	0.527		6.9	30
1,1,1,2-Tetrachloroethane	0.961	0.778		19.0	30
Chlorobenzene	1.768	1.740		1.6	30
Ethylbenzene	2.844	2.677		5.9	30
m,p-Xylene	2.126	1.708		19.7	30
Bromoform	1.281	0.842		34.3 #	30
Styrene	1.674	1.638		2.2	30
1,1,2,2-Tetrachloroethane	1.621	1.562		3.6	30
o-Xylene	2.282	2.207		3.3	30
Isopropylbenzene	3.076	2.991		2.8	30
4-Ethyltoluene	3.183	3.050		4.2	30
1,3,5-Trimethylbenzene	2.684	2.573		4.1	30
1,2,4-Trimethylbenzene	2.725	2.551		6.4	30
Benzyl chloride	2.056	1.519		26.1	30
1,3-Dichlorobenzene	1.911	1.808		5.4	30
1,4-Dichlorobenzene	1.815	1.629		10.2	30
sec-Butylbenzene	3.790	3.692		2.6	30
4-Isopropyltoluene	3.637	3.437		5.5	30
1,2-Dichlorobenzene	1.818	1.660		8.7	30
n-Butylbenzene	3.000	2.863		4.6	30
1,2,4-Trichlorobenzene	1.193	0.840		29.6	30
Hexachlorobutadiene	1.201	0.906		24.6	30
1,2-Dichlorotetrafluoroethane(sim)	2.202	1.950		11.4	30
Vinyl Chloride(sim)	1.054	0.954		9.5	30
Bromomethane(sim)	0.876	0.709		19.1	30
Trichlorofluoromethane(sim)	2.372	2.170		8.5	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM20 Calibration Date: 04/17/23 Time: 09:07

Lab File Id: 0417_02.D Init. Calib. Date(s): 04/10/23 04/10/23

Heated Purge (Y/N): Y Init. Calib. Times: 10:01 16:24

GC Column: RTX-1 60M Method File: 20_AIR_0410.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.625	1.430		12.0	30
1,1,1-Trichloroethane(sim)	2.208	1.907		13.6	30
Benzene(sim)	3.034	2.516		17.1	30
Carbon Tetrachloride(sim)	1.960	1.555		20.7	30
1,1-Dichloroethene(sim)	1.871	1.637		12.5	30
Trichlorotrifluoroethane(sim)	1.890	1.728		8.6	30
Trans-1,2-Dichloroethene(sim)	1.758	1.540		12.4	30
1,1-Dichloroethane(sim)	2.100	1.949		7.2	30
Cis-1,2-Dichloroethene(sim)	1.817	1.542		15.1	30
Chloroform(sim)	2.093	1.898		9.3	30
1,2-dichloropropane(sim)	0.462	0.360		22.1	30
Bromodichloromethane(sim)	0.665	0.474		28.7	30
Trichloroethene(sim)	0.506	0.391		22.7	30
1,4-Dioxane(sim)	0.190	0.143		24.7	30
cis-1,3-Dichloropropene(sim)	0.511	0.403		21.1	30
1,1,2-Trichloroethane(sim)	0.416	0.309		25.7	30
Dibromochloromethane(sim)	0.748	0.469		37.3 #	30
1,2-Dibromoethane(EDB)(sim)	0.639	0.503		21.3	30
Tetrachloroethene(sim)	0.742	0.545		26.5	30
Bromoform(sim)	1.500	0.961		35.9 #	30
m,p-Xylene(sim)	2.393	2.176		9.1	30
1,1,2,2-Tetrachloroethane(sim)	1.913	1.576		17.6	30
Benzyl chloride(sim)	2.123	1.589		25.2	30
1,3-Dichlorobenzene(sim)	2.246	2.032		9.5	30
1,4-Dichlorobenzene(sim)	2.232	1.622		27.3	30
sec-Butylbenzene(sim)	4.741	4.056		14.4	30
4-Isopropyltoluene(sim)	4.282	3.438		19.7	30
1,2-Dichlorobenzene(sim)	2.104	1.772		15.8	30
n-Butylbenzene(sim)	3.533	2.851		19.3	30
1,2,4-Trichlorobenzene(sim)	1.125	0.987		12.3	30
Hexachlorobutadiene(sim)	1.241	0.887		28.5	30
% Bromofluorobenzene	1.366	1.436		-5.1	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM39 Calibration Date: 04/17/23 Time: 12:14

Lab File Id: 0417_02.D Init. Calib. Date(s): 04/13/23 04/14/23

Heated Purge (Y/N): Y Init. Calib. Times: 17:29 00:57

GC Column: RTX-1 ; #10157 Method File: 39_AIR_0413.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.417	0.380		8.9	30
cis-1,3-Dichloropropene	0.475	0.423		10.9	30
4-Methyl-2-pentanone(MIBK)	0.527	0.493		6.5	30
trans-1,3-Dichloropropene	0.429	0.370		13.8	30
1,1,2-Trichloroethane	0.364	0.349		4.1	30
Toluene	1.090	1.031		5.4	30
Dibromochloromethane	0.696	0.542		22.1	30
2-Hexanone(MBK)	0.499	0.449		10.0	30
1,2-Dibromoethane(EDB)	0.601	0.565		6.0	30
Tetrachloroethene	0.612	0.562		8.2	30
1,1,1,2-Tetrachloroethane	0.929	0.788		15.2	30
Chlorobenzene	1.791	1.773		1.0	30
Ethylbenzene	2.782	2.740		1.5	30
m,p-Xylene	2.112	1.695		19.7	30
Bromoform qfi	1.000	0.70		30.0 #	20
Styrene	1.724	1.650		4.3	30
1,1,2,2-Tetrachloroethane	1.587	1.536		3.2	30
o-Xylene	2.191	2.134		2.6	30
Isopropylbenzene	3.009	3.005		0.1	30
4-Ethyltoluene	3.186	3.129		1.8	30
1,3,5-Trimethylbenzene	2.592	2.395		7.6	30
1,2,4-Trimethylbenzene	2.629	2.468		6.1	30
Benzyl chloride	2.134	1.500		29.7	30
1,3-Dichlorobenzene	1.973	1.861		5.7	30
1,4-Dichlorobenzene	1.920	1.741		9.3	30
sec-Butylbenzene	3.708	3.746		-1.0	30
4-Isopropyltoluene	3.515	3.423		2.6	30
1,2-Dichlorobenzene	1.853	1.614		12.9	30
n-Butylbenzene	2.937	2.894		1.5	30
1,2,4-Trichlorobenzene	1.509	1.223		19.0	30
Hexachlorobutadiene	1.412	1.145		18.9	30
1,2-Dichlorotetrafluoroethane(sim)	2.224	2.176		2.2	30
Vinyl Chloride(sim)	0.775	0.727		6.2	30
Bromomethane(sim)	0.885	0.835		5.6	30
Trichlorofluoromethane(sim)	2.179	2.201		-1.0	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN84181

Instrument: CHEM39 Calibration Date: 04/17/23 Time: 12:14

Lab File Id: 0417_02.D Init. Calib. Date(s): 04/13/23 04/14/23

Heated Purge (Y/N): Y Init. Calib. Times: 17:29 00:57

GC Column: RTX-1 ; #10157 Method File: 39_AIR_0413.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.116	1.048		6.1	30
1,1,1-Trichloroethane(sim)	2.069	1.856		10.3	30
Benzene(sim)	3.603	3.001		16.7	30
Carbon Tetrachloride(sim)	2.073	1.676		19.2	30
1,1-Dichloroethene(sim)	1.274	1.203		5.6	30
Trichlorotrifluoroethane(sim)	1.875	1.857		1.0	30
Trans-1,2-Dichloroethene(sim)	1.340	1.237		7.7	30
1,1-Dichloroethane(sim)	1.689	1.579		6.5	30
Cis-1,2-Dichloroethene(sim)	1.282	1.182		7.8	30
Chloroform(sim)	2.219	1.947		12.3	30
1,2-dichloropropane(sim)	0.327	0.303		7.3	30
Bromodichloromethane(sim)	0.572	0.491		14.2	30
Trichloroethene(sim)	0.417	0.396		5.0	30
1,4-Dioxane(sim)	0.192	0.180		6.3	30
cis-1,3-Dichloropropene(sim)	0.475	0.432		9.1	30
1,1,2-Trichloroethane(sim)	0.369	0.349		5.4	30
Dibromochloromethane(sim)	0.642	0.527		17.9	30
1,2-Dibromoethane(EDB)(sim)	0.609	0.563		7.6	30
Tetrachloroethene(sim)	0.615	0.540		12.2	30
Bromoform(sim)	1.472	1.063		27.8	30
m,p-Xylene(sim)	2.241	2.134		4.8	30
1,1,2,2-Tetrachloroethane(sim)	1.712	1.519		11.3	30
Benzyl chloride(sim)	2.282	1.499		34.3 #	30
1,3-Dichlorobenzene(sim)	2.158	1.816		15.8	30
1,4-Dichlorobenzene(sim) qfi	1.000	0.84		16.0	20
sec-Butylbenzene(sim)	2.943	2.621		10.9	30
4-Isopropyltoluene(sim)	3.821	3.421		10.5	30
1,2-Dichlorobenzene(sim)	1.976	1.656		16.2	30
n-Butylbenzene(sim)	3.083	2.892		6.2	30
1,2,4-Trichlorobenzene(sim)	1.485	1.247		16.0	30
Hexachlorobutadiene(sim) qfi	1.000	0.91		9.0	20
% Bromofluorobenzene	1.393	1.438		-3.2	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria
%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D
(#) Maximum %D not met.

ATTACHMENT B

BUILDING INVENTORY FORM



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Print Form

Export BI EDD

Export XML

Import Sys Data

Export Full EDD

Site Name: Award Packaging Corp. Site Code: 130155 Operable Unit: OU1

Building Code: _____ Building Name: _____

Address: 625 South Street Apt/Suite No: _____

City: Garden City State: NY Zip: _____ County: Nassau

Contact Information

Preparer's Name: Chris DeSclafani Phone No: 631-737-622

Preparer's Affiliation: Environmental Consultant Company Code: FPM Group

Purpose of Investigation: SVI Testing Date of Inspection: Apr 12, 2023

Contact Name: Rococo Associates-Jill Lefkowitz Affiliation: OWNER

Phone No: 516-343-9230 Alt. Phone No: _____ Email: Jill@islandpropertygrc

Number of Occupants (total): 2 Number of Children: NA

☒ Occupant Interviewed? ☐ Owner Occupied? ☐ Owner Interviewed?

Owner Name (if different): _____ Owner Phone: _____

Owner Mailing Address: _____

Building Details

Bldg Type (Res/Com/Ind/Mixed): COMMERCIAL/MIXED Bldg Size (S/M/L): MEDIUM

If Commercial or Industrial Facility, Select Operations: WAREHOUSE If Residential Select Structure Type:

Number of Floors: 1 Approx. Year Construction: 1965 ☐ Building Insulated? ☐ Attached Garage?

Describe Overall Building 'Tightness' and Airflows(e.g., results of smoke tests):
Building has several loading docks with garage doors that are not well sealed

Foundation Description

Foundation Type: ABOVE GRADE Foundation Depth (bgs): _____ Unit: FEET

Foundation Floor Material: POURED CONCRETE Foundation Floor Thickness: 6 Unit: INCHES

Foundation Wall Material: CONCRETE BLOCK Foundation Wall Thickness: 10

☒ Floor penetrations? Describe Floor Penetrations: Utility penetrations

☐ Wall penetrations? Describe Wall Penetrations: _____

Basement is: Basement is: ☐ Sumps/Drains? Water In Sump?:

Describe Foundation Condition (cracks, seepage, etc.) : Some small cracks presents

☐ Radon Mitigation System Installed? ☒ VOC Mitigation System Installed? ☐ Mitigation System On?

Heating/Cooling/Ventilation Systems

Heating System: OTHER Heat Fuel Type: GAS ☐ Central A/C Present?

Vented Appliances

Water Heater Fuel Type: NONE Clothes Dryer Fuel Type: NO CLOTHES DRYER

Water Htr Vent Location: Dryer Vent Location:



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

PRODUCT INVENTORY

Building Name: _____ Bldg Code: _____ Date: _____

Bldg Address: 625 South Street Apt/Suite No: _____

Bldg City/State/Zip: Garden City NY

Make and Model of PID: minirae 2020 Date of Calibration: 4/12//2023

Location	Product Name/Description	Size (oz)	Condition *	Chemical Ingredients	PID Reading	COC Y/N?
Award Space	Windex	32	used	isopropanol, ammonium hydroxide (primary)	0	☐
Award Space	Fabuloso	32	used	ethylene oxide, Butyl acetate	0	☐
Electric Con	Various motor oils	55 gal	used	Petroleum Constituents	10	☐
Electric Con	Part washers	30 gal	used	Unknown Solvent	20	☒
Electric Con	Gunk Brake Cleaner	5 (19 oz)	used	Contains 90-100% PCE	10	☒
Electric Con	Klein Wire Pulling Lubricant		used	propane, butane	5	☐
Electric Con	Spray paint	10(12oz	used	acetone, propoane, naptha, butane	5	☐
Electric Con	OCAL PVC Patch Compound		used	Benzyl alcohol	5	☐
Electric Con	Brite Zinc		used	xylene, toluene,ethylbenzene	5	☐
Electric Con	Rustoleum cold galvenizing		used	xylene, toluene	5	☐
Electric Con	Weldwood contact cement		used	toluene	5	☐
Electric Con	e6100 adhesive		unopened	PCE	5	☒
Electric Con	gasoline/diesel jugs		used	Petroleum constituents	100	☐
Electric Con	Various cleaners		used			☐
						☐
						☐

* Describe the condition of the product containers as **Unopened (UO)**, **Used (U)**, or **Deteriorated (D)**

** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

Product Inventory Complete? ☒ Yes Were there any elevated PID readings taken on site? ☒ Yes ☐ Products with COC?



Structure Sampling Questionnaire and Building Inventory

New York State Department of Environmental Conservation

Export Sampling EDD

Site Name: Award Packaging Corp. Site Code: 130155 Operable Unit: OU1

Building Code: _____ Building Name: _____

Address: 625 South Street Apt/Suite No: _____

City: Garden City State: NY Zip: _____ County: Nassau

Factors Affecting Indoor Air Quality

Frequency Basement/Lowest Level is Occupied?: FULL TIME Floor Material: CEMENT

☐ Inhabited? ☐ HVAC System On? ☒ Bathroom Exhaust Fan? ☐ Kitchen Exhaust Fan?

Alternate Heat Source: _____ ☐ Is there smoking in the building?

☐ Air Fresheners? Description/Location of Air Freshener: _____

☐ Cleaning Products Used Recently?: Description of Cleaning Products: _____

☐ Cosmetic Products Used Recently?: Description of Cosmetic Products: _____

☐ New Carpet or Furniture? Location of New Carpet/Furniture: _____

☐ Recent Dry Cleaning? Location of Recently Dry Cleaned Fabrics: _____

☐ Recent Painting/Staining? Location of New Painting: _____

☒ Solvent or Chemical Odors? Describe Odors (if any): yes, in electrical contractor tenant space

☒ Do Any Occupants Use Solvents At Work? If So, List Solvents Used: various parts washers, brake cleaners

☐ Recent Pesticide/Rodenticide? Description of Last Use: _____

Describe Any Household Activities (chemical use,/storage, unvented appliances, hobbies, etc.) That May Affect Indoor Air Quality:

Electrical contractor tenant space is used for the storage of trade materials and maintenance of automotive and other equipment.

☐ Any Prior Testing For Radon? If So, When?: _____

☒ Any Prior Testing For VOCs? If So, When?: Feb 24, 2020

Sampling Conditions

Weather Conditions: PARTLY CLOUDY Outdoor Temperature: 69 °F

Current Building Use: WAREHOUSE Barometric Pressure: 29.74 in(hg)

Product Inventory Complete? ☐ Yes ☒ Building Questionnaire Completed?

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau A

625 Broadway, 12th Floor, Albany, NY 12233-7015

P: (518) 402-9625 | F: (518) 402-9627

www.dec.ny.gov

August 22, 2023

Via electronic transmittal only

Rococo Associates, Inc.
Jill S. Lefkowitz
222 Wall Street
Suite 162
Huntington, NY 11743

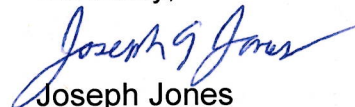
Re: Award Packaging Corp., Site No.: 130155
625 South Street, Garden City, Nassau County
Soil Vapor Intrusion Letter Report

Dear Jill S. Lefkowitz (as the Certifying Party):

The New York State Department of Environmental Conservation (Department) and the New York State Department of Health (NYSDOH) have received and reviewed the June 14, 2023 Soil Vapor Intrusion Letter Report (Report) for the above referenced site. The Report, including the conclusions and recommendations contained therein, is approved, and satisfies the request for additional SVI sampling contained in my letter of March 6, 2023 (attached). Please continue operation of the SVE system to address sub-slab PCE concentrations in proximity to SV-3 as recommended in the report and continue monitoring of the SVE system in accordance with the Site Management Plan. Please provide an updated version of the July 2021 Periodic Review (PRR) report for the subject site, with the Soil Vapor Intrusion Letter Report appended, within 20 business days of your receipt of this letter.

If you have any questions, please contact me at this e-mail address or by telephone at 518-402-9621.

Sincerely,



Joseph Jones
Project Manager
Remedial Section A



Department of
Environmental
Conservation

Att: March 6 2023 letter J. Jones to J. Lefkowitz

Ec: Joseph Jones, NYSDEC
Bob Corcoran, NYSDEC
Girish Desai, RHWRE
Renata Ockerby, NYSDOH
Charlotte Bethoney, NYSDOH
Ben Cancemi, FPM Group

APPENDIX B

RESUMES OF ENVIRONMENTAL PROFESSIONALS



Mr. Cancemi has diversified experience in geology and hydrogeology. His professional experience includes groundwater and soil investigations, design and management of soil remediation projects, installation and maintenance of groundwater containment and remediation systems, aquifer testing and interpretation, geotechnical studies, evaluation of site compliance with environmental regulations and environmental permitting.

Functional Role	Title	Years of Experience
Senior Hydrogeologist	Department Manager - Hydrogeology	22

Personal Data

Education

M.S./2001/Hydrogeology/SUNY Stony Brook
B.S./1995/Geology/SUNY Stony Brook

Registration and Certifications

New York State Professional Geologist, #7051
Certified Professional Geologist – American Institute of Professional Geologists
NYC Office of Environmental Remediation – Gold Certified Professional
OSHA 40-hour HAZWOPER and Current 8-hour Health and Safety Training and Current Annual Physical
OSHA 8-hour HAZWOPER Supervisor
OSHA 10-hour Construction Safety and Health
OSHA Permit-Required Confined Space Training
Long Island Geologists
National Groundwater Association

Employment History

2001-Present FPM Group
1998-2001 Burns & McDonnell Engineering Company
1997-1998 Groundwater and Environmental Services
1996-1997 Advanced Cleanup Technologies

Detailed Experience

Hydrogeologic Evaluations

- **Project Manager, Lower Manhattan, NY. NYCT.** Coordinated and performed constant head hydraulic conductivity (packer) testing in boreholes located in fractured bedrock in lower Manhattan, NY to evaluate fracture connectivity with the nearby Hudson and East Rivers and determine hydraulic conductivity and related parameters such that water management procedures could be implemented for redevelopment of the New South Ferry Subway Station.
- **Project Manager, Manhattan, NY. NYCT** Coordinated and performed a hydrogeologic

investigation, including utility clearing, soil borings, rock coring, packer testing, aquifer pumping testing, data collection, and interpretation, to evaluate subsurface conditions and determine geologic parameters for a proposed subway extension of the NYC Transit No.7 Subway Line.

- **Project Manager, Various Sites Long Island, NYC, and Westchester County, NY** Performed aquifer pumping and slug tests and evaluated hydrologic properties using the computer program AQTESOLV.

Site Investigations

- **Program Manager** for ongoing investigation and remedial projects at several New York State Inactive Hazardous Waste Disposal sites, Voluntary Cleanup Program (VCP) sites, and NYC OER e-designated sites. Investigations have included site characterization, Remedial Investigations/Feasibility Studies (RI/FS), and Resource Conservation and Recovery Act (RCRA) facility investigations and closures. Remedial services have included contaminated soil removal; design, installation, and operation of air sparge/soil vapor extraction (AS/SVE) systems and sub-slab depressurization systems (SSDS), capping, and other remedial services.
- **Program Manager NYSDEC BCP Site, Brooklyn, NY** Coordinated and performed an investigation, implemented remedial measures and regulatory reporting at a former dry-cleaning facility in Brooklyn, NY, including soil, groundwater and soil vapor sampling to assess onsite chlorinated solvent impacts. Remedial actions included conducting pilot testing for installation of a sub-slab depressurization system (SSDS), coordinating the installation of vapor barrier and SSDS. Prepared a Final Engineering Report documenting remedial activities and a Site Management Plan for continued site monitoring.

- **Program Manager NYSDEC Inactive Hazardous Waste Site, Garden City, NY** Coordinated and performed an investigation, implemented remedial measures and regulatory reporting for a former printing facility in Garden City, NY, including soil, groundwater and soil vapor sampling to assess onsite chlorinated solvent impacts. Remedial actions included pilot testing and installation of an air sparge/soil vapor extraction (AS/SVE) system and SSDS, coordinating the installation of an SSDS, removal of contaminated soils from two areas and removal of impacted sediments from twelve leaching structures. Prepared a Final Engineering Report documenting remedial activities.
- **Program Manager, NYC Redevelopment Site, Queens NY.** Program Manager for environmental activities at a NYC Voluntary Cleanup Program Site. Environmental activities included preparation of a Phase I report, completion of a remedial investigation, preparation of associated work plans, implementation of a community air monitoring program for site activities, excavation and disposal of impacted soils, management and disposal of clean soils, and regulatory reporting.
- **Project Manager Remedial Investigation NYSDEC BCP Site, Queens, NY** Coordinated and performed an investigation at a vacant commercial property Far Rockaway, NY, including soil, groundwater and soil vapor sampling to assess onsite chlorinated solvent impacts from an adjoining offsite source. Prepared Remedial Work Plan and Report and provided monthly updates.
- **Project Manager, Site Investigation, Former Aerospace Facilities, Long Island, NY** Coordinated and performed soil and groundwater sampling and soil vapor studies at several aerospace manufacturing facilities on Long Island, NY. Assessments included an evaluation of past manufacturing and facility operations, storage and use of solvents, petroleum and manufacturing-derived wastes, and impacts to soils, soil vapor, and groundwater. Areas of concern were identified for further evaluation and/or corrective action.
- **Project Manager, Municipal Landfill Monitoring, Town of East Hampton, NY** Coordinated and performed long term groundwater monitoring at two closed Town of East Hampton, NY municipal landfills, including the sampling a multi-depth monitoring well network, analysis and interpretation of analytical and hydrogeologic data, and regulatory reporting in accordance with NYSDEC Part 360 requirements.
- **Project Manager, Site Investigation, Former agricultural facilities, Long Island, NY** Coordinated and performed soil and groundwater investigations at various agricultural and horticultural properties to evaluate impacts of past herbicide and pesticide usage on the underlying soil and groundwater.
- **Program Manager, Municipal Landfill Gas Monitoring, Town of East Hampton, NY** Managed and performed routine methane monitoring at two Town of East Hampton landfills for compliance with NYSDEC requirements and to evaluate potential offsite migration to the surrounding community. Monitored indoor air with a flame ionization detector (FID) to evaluate impacts to buildings.
- **Hydrogeologist, Groundwater Modeling, Town of East Hampton, NY** Assisted with groundwater flow modeling for the Springs-Fireplace Road Landfill to evaluate the nature and extent of the landfill plume, its likely downgradient extent, and its fate.
- **Program Manager, Petroleum Release Sites, Various NYC, Long Island and Westchester County** Coordinated and performed onsite and offsite monitoring at petroleum release sites on Long Island, the New York metropolitan area, and in Westchester County in accordance with NYSDEC Spill program requirements. The monitoring programs generally included sampling multi-depth monitoring well networks utilizing low-flow sampling techniques, analysis/interpretation of analytical and hydrogeologic data, and regulatory reporting.
- **Project Manager, Site Investigation, Logan International Airport, Boston, MA.** Coordinated a soil and groundwater sampling program to evaluate environmental conditions at Terminal A, Logan International Airport, East Boston, Massachusetts. The program included an assessment of the current fuel hydrant system and other locations of potential environmental concern using non-destructive air vacuum extraction-clearing techniques combined with direct-push sampling. **Project Manager, Site Investigation, Pyrotechnics Facility, Suffolk County, NY.** Managed and performed a soil and groundwater investigation,

a remedial soil excavation, and groundwater monitoring at a pyrotechnics manufacturing facility in Suffolk County, NY. The work was performed under the direction of the Suffolk County Department of Health Services (SCDHS) to investigate and remediate contamination from historic use of perchlorate- containing materials at the facility.

- **Project Manager, Site Investigation, Automobile Franchise, Westchester County, NY.** Coordinated and performed soil, groundwater and soil vapor investigations at several automobile dealerships in Westchester County, NY to evaluate potential impacts from petroleum and chemical solvent storage and usage and onsite waste water disposal systems.
- **Project Manager, Site, Investigation, Former mercury thermometer manufacturing facility, NYC, NY.** Coordinated and performed soil and soil vapor intrusion study at a former mercury thermometer manufacturing facility in NYC. Assessments included an evaluation of past manufacturing and facility operations, storage and use of mercury, manufacturing-derived wastes, and impacts to soils and soil vapor. Areas of concern were identified for further evaluation and remedial action.

Phase I Environmental Site Assessments

- **Project Manager, Various Northeastern and Mid-Atlantic States.** Performed numerous Phase I Environmental Site Assessments (ESAs) for commercial and industrial properties throughout the Northeastern and Mid-Atlantic States for various clients including trucking companies, major airlines, telecommunication companies, chemical/ petroleum storage facilities, aerospace manufacturing facilities, machine shops, retail shopping centers, auto dealerships and service stations.

Remediation

- **Project Manager, Remediation, Former Landfill, Suffolk County, NY.** Managed remedial activities at a NY State Environmental Restoration Program (ERP) Site situated at a former hospital landfill in Northport, NY. Responsibilities contractor management and oversight, soil disposal management, confirmatory testing, data review, and preparation of remedial work plan and final engineering report for remedial activities.
- **Project Manager, Remediation - AS/SVE, Various Sites, NYC and Long Island.** Performed pilot testing, design, installation and procurement of numerous multi-depth soil vapor extraction (SVE) and air sparge (AS) remediation systems on Long Island and in the NYC metropolitan area to remediate chlorinated solvents and petroleum. Conducted remediation system operation and maintenance, and evaluations of system performance.
- **Project Manager, Remediation - UIC Structures, Nassau and Suffolk County, NY.** Performed numerous storm water and sanitary leaching structure (UIC) cleanouts utilizing excavation and/or vacuum assisted equipment to remove contaminated sediments and liquids. Conducted waste characterization and profiling, pipe camera surveys, and structure locating utilizing water-soluble dyes and electronic locating equipment.
- **Project Manager, Remediation Sub-Slab Depressurization Systems, NYC, Nassau and Suffolk Counties, NY** Conceptually designed and oversaw the installation of a sub- slab depressurization system (SSDS) at several commercial properties in the NYC and Long Island to mitigate chlorinated solvent impacts. SSDS monitoring was conducted to ensure proper operation and emissions compliance of with NYSDEC air discharge guidelines.
- **Project Manager, Remediation System O & M, NYC and Long Island.** Operated and maintained remediation systems, including SVE, groundwater pump and treat, AS, dual-phase extraction, SSDS and free-phase petroleum recovery systems.
- **Project Manager, Remediation. White Plains, NY.** Managed and coordinated a petroleum spill investigation to evaluate the nature and extent of a fuel oil release at an office building in White Plains, NY. The investigation included excavation and removal of a 5,000-gallon UST situated over 20 feet below grade, tightness testing of the UST and associated piping, a soil and groundwater investigation, free product recovery utilizing vacuum-enhanced fluid recovery techniques, and coordination and reporting to the NYSDEC and Westchester County Department of Health.

Health and Safety

- **HASP and CAMP Plan Preparation, Various Sites.** Prepared community air monitoring and health and safety plans for several NYSDEC inactive hazardous waste, brownfield cleanup program, volunteer cleanup program, petroleum spill, and NYC e-designation program sites
- **HASP Monitoring, Various Sites.** Performed health and safety monitoring at investigation and remediation sites during intrusive activities. Calibrated and operated photoionization detectors (PID) and flame-ionization detectors (FID) for organic vapors and combustible gas indicators (CGI) for methane. Compared results to applicable action levels and took preventative/protective measures as necessary.
- **CAMP Monitoring, Various Sites.** Performed community monitoring, including monitoring for noise, particulates (dust), and organic vapors. Recorded observations and compared to applicable action levels. Calibrated and operated noise meters, particulate monitors, and PID/FID.
- **Radiation Screening, Various Sites.** Performed screening for radiation at select sites. Operated Geiger counter in different radiation modes and obtained and evaluated background readings.
- **Mercury Screening.** Performed screening of mercury vapor for several projects. Operated and experienced with Jerome and Lumex Mercury Vapor Analyzers.

Expert Witness/Technical Services

- **Expert Witness Services, Glen Cove Waterfront Redevelopment.** Provided expert witness services regarding environmental conditions and remedial procedures for redevelopment of a former industrial and commercial area in Glen Cove, NY.
- **Technical Services, multiple sites, Town of Brookhaven.** Provided technical services regarding environmental conditions at various commercial and residential sites within the municipality to evaluate potential compliance issues with Town code. Services included coordinating subsurface investigations, sampling of various media, methane surveys, tidal surveys, technical oversight of investigation activities.
- **Technical Services, multiple sites, Town of Huntington.** Provide technical review of environmental investigations and soil

management plans prepared for proposed development for the Planning Division to assess if the proposed development has been properly evaluated in accordance with town requirements.

MGP Site Experience

- **Field Team Leader, Property Transfer of MGP sites.** Conducted soil and groundwater sampling at several Nicor MGP sites in Illinois prior to property transfer to Con Edison. Coordinated sampling crews, oversaw sampling and sample management, and implemented HASP monitoring.
- **Project Manager, Geophysical Investigation at Brooklyn Union Greenpoint MGP site.** Developed and implemented a geophysical investigation at an MGP site that was subject to differential settlement. Coordinated with client and subcontractors, oversaw survey activities, implemented HASP, interpreted results, and prepared a report to document the completed work.

Other

- **Project Manager, RCRA Closure, Nassau County, NY** Coordinated RCRA closure activities and performed confirmatory sampling at a former package manufacturing and printing facility in Nassau County, NY. Project duties included preparation of a closure work plan, contractor procurement, a subsurface site investigation, rinsewater sampling, and regulatory agency reporting and coordination, and preparation of a closure report.
- **Project Manager, Former Landfill, Suffolk County, NY.** Prepared a remedial design (RD) work plan for a former hospital landfill on Long Island. The RD work plan included a summary of past investigations, a materials management plan for the excavation and disposal of contaminated soils and debris, a post-excavation sampling plan, a site restoration plan, community air monitoring plan (CAMP), health and safety plan (HASP) and a quality assurance and quality control (QA/QC) plan.
- **Project Manager, Air Monitoring, Nassau County, NY.** Managed and performed monthly soil gas sampling and quarterly indoor air quality sampling at an elementary school in southwestern Nassau County, NY. The monitoring and associated NYSDEC reporting were performed to ensure that a gasoline groundwater plume migrating through the school

property was not impacting indoor air at the school.

- **Project Manager, Environmental Compliance, Multiple Sites.** Performed compliance inspections to assess issues of potential environmental concern at manufacturing, aviation, trucking, retail, and not-for-profit facilities.



Mr. Loyst has over 25 years of experience in environmental and civil engineering involving areas such as design & construction, regulation compliance & permitting, site investigation & remediation, environmental impact analysis, and expert witness testimony.

His clients include Federal agencies – USACE, US Army, USAF, FAA, USCG, USDA, USPS, IRS, VA; State agencies – NYSOGS, NYSParks, NYSDOT, DASNY, NYSOMH, NYSDEC, NYSPolice; City agencies – NYCT, NYCDEP, NYCDOC; Municipalities – Riverhead, Islip, Brookhaven, Smithtown, East Hampton, Village of Lake Success, Greenburgh, City of Rye and numerous private clients.

Functional Role	Title	Years of Experience
Program Manager	Corporate Vice President Department Manager - Environmental Engineering	29

Personal Data

Education

M.S./1997/Environmental Engineering – New York University (formerly Brooklyn Polytechnic University)
B.S./1989/Interdisciplinary Engineering & Management– Clarkson University
B.S./1988/Civil and Environmental Engineering – Clarkson University

Registration and Certifications

Licensed Professional Engineer in State of New York
Project Management Professional
NYSDEC Stormwater Qualified Inspector Training
OSHA-approved 40-hr Health and Safety Training
OSHA-approved 8-hr Refresher Training Course
OSHA 8-hr HAZWOPER Supervisor Training

Societies/Associations

American Society of Civil Engineers
Project Management Institute

Employment History

1992 to Present FPM Group
1989-1992 Westinghouse Electric Corp.

Technical Seminars

Stormwater, Soil Erosion & Sediment Control,
Hazardous Waste/RCRA, Emergency Planning &
Community Right-To-Know (EPCRA), Environmental
Impact Analysis/NEPA/EIS/EA, Air/CAA, Soil
Remediation

Detailed Experience

Design & Construction

- Performed site reconnaissance, surveying, identification, and enumeration activities to develop plans, specifications, and environmental permitting for NYSOGS for processing waste tire materials into beneficial shred material to be used by the New York State Department of Transportation (NYSDOT) in road construction projects and landfills. Following the development of plans and specifications, FPM assisted NYSOGS with bidding phase services including contractor award and construction/remediation/restoration/ oversight. In total approx. 20 million tires were recycled at four sites across New York State (Smithtown, Saugerties, Catskill, and Plattsburgh).
- Prepared Program Reports and Design services for NYSOGS/ NYSDOT water supply treatment facilities in Wellsville, N. Java, and Oswego, NY.
- Evaluated existing site drainage design issues and provided corrective action for NYSOGS/DMNA AAFS in Rochester, NY.
- Investigated and designed corrective actions for failing maintenance bay trench drains at NYS Police Headquarters in Farmingdale, NY.
- Performed SWPPP services for NYSOGS/NYSPolice including weekly construction inspections and filing NOT upon project completion for new State Police zone headquarters in Hempstead, NY.
- Reviewed, prepared, and implemented numerous State Pollutant Discharge Elimination System (SPDES) General Permits for Stormwater Discharges from Construction Activities, Stormwater Pollution Prevention Plans (SWPPPs), and Soil Erosion and Sediment Control Plans for NYSOGS, NYSDEC, NYCDEP, municipalities, and private clients.
- Hazardous material storage area design for NYSOGS, NYSParks, and industrial facilities in accordance with Suffolk County and Nassau County regulations and containment provisions (e.g., containment buildings, bermed epoxy coated storage areas).
- Conventional subsurface sewage disposal system and reduced pressure zone device designs and construction management services for NYSOGS and numerous governmental, municipal, and private facilities.
- Hydrologist consultant to New York City Transit (NYCT) involving numerous drainage studies and

investigation of mitigation measures for stormwater and groundwater issues at bus depots, train yards, and subway stations.

- Hydrologist consultant to Town of Greenburgh involving the review of EIS documents, Stormwater Management Plans, Soil Erosion and Sediment Control Plans, drainage calculations, and modeling for proposed development projects on sites up to 300 acres.
- Hydrologist consultant to City of Rye involving site design review, flooding analyses, and environmental impact assessment for a 10-acre Brownfield remediation/development project.
- Prepared SWPPP and performed bi-weekly stormwater inspections for a NYCDEP 11-acre, 30 million gallon combined storage overflow facility in Brooklyn, NY.
- Performed dye-testing studies at several NYCT facilities in NYC and La Salle Military Academy in Oakdale, NY to identify discharges and remedies.
- Assisted NYCT with design mitigation measures and resiliency projects for critical infrastructure damaged during Hurricane Sandy.
- Design and construction services for rehabilitation and stabilization of streams and drainage channels for USACE in Binghamton, Endicott and Johnson, NY, and Danville, PA.
- Runoff calculations, drainage alternatives, and best management practices for site development projects in Long Island, NYC, and Westchester County.
- Evaluation and rehabilitation of groundwater well dewatering pumping systems for NYCT via downhole camera videotaping, riser swab cleaning, high velocity jetting, pump test analysis, specific capacity testing, and pump redesign.
- Performed leak investigation studies, and designed corrective measures for MTA Grand Central Station and South Ferry Station in Manhattan, NY.
- Certified numerous types of reports including periodic review, feasibility study, engineering, and work plans for inactive hazardous waste disposal (NYS Superfund) and environmental restoration program (ERP) sites.
- As Village of Lake Success environmental consultant, involved in groundwater pump and treat system quarterly OU-1 and OU-2 remedial system reporting, OMM and SSDS design review, indoor air quality monitoring, and overseeing sub-slab construction activities.
- Removal, recycling, and disposal of over 10,000 cy of construction and demolition debris at various waste management areas on Plum Island, NY involving development of plans and specifications, cost estimating, and construction oversight for USDA.
- Soil erosion and sediment control plans and certifications for FAA airport navigational aid projects.
- Performed Dam Classification, Spillway Analysis, and Design services for NYSParks repair/replacement of Connetquot Dam in Long Island, NY.
- Analyzed existing Paumanok Village Sewage Treatment Plant design to evaluate if 60 additional condominium units could be accommodated.
- Porous pavement designs and evaluations for NYCT bus depots.
- Prepared Remedial Design Report, plans and specifications, bid phase services, and construction supervision for remediation of a 3-acre VNSA landfill in Huntington, NY.
- Assisted the Town of Riverhead with capping estimates, feasibility study for reclaiming and capping a reduced landfill and engineering reviews for a full Part 360 landfill cap design.
- Development of plans and specifications for asbestos abatement projects for elementary schools in Long Island.
- Asbestos abatement specification reviews for FAA facility rehabilitations.
- Designed new track and field athletic complex at USCG Academy, New London, CT involving NCAA regulation 8-lane track with synthetic type running service, separate event throwing areas, NCAA regulation soccer field inside the track and all necessary elements for typical collegiate facilities (lighting, grandstand, scoreboard, etc.) Critical design aspects included managing infiltration and surface water runoff for discharge into Thames River and environmental permitting (SWPPP and coastal zone consistency determination).
- Performed study and conceptual design of an equalization tank for storing roof runoff to be used at two NYCT bus depots in Manhattan and Staten Island.
- Soil Vapor Intrusion (SVI) and sub slab depressurization system (SSDS) design work for office buildings and aircraft hangar/warehouses at former Griffiss AFB and 1.3 million sf of office building in Nassau County.
- Prepared plans for relocation of scales/scalehouse at a waste transfer/recycling facility in Islip, NY.
- Acquired Joint Application/Water Withdrawal Permits and prepared Engineering Report and Plans for construction of a lowered hydraulic connection between 2 lakes in Lake Success, NY.
- Sub-slab depressurization system (SSDS) design including a horizontal well and blower system for a DASNY and NYS Office of Alcoholism and Substance Abuse Services (OASAS) 4,000 sf facility on a 1-acre parcel on a municipal landfill in the City of Peekskill.
- Designed an 80'x45'x30' deep recharge basin with infiltration wells for an 11-acre NYCT bus depot in Staten Island, NY.

- Provided water well treatment design services for a golf course irrigation system in Lake Success, NY.
- Designed ground mounted 10kw Photovoltaic system for a Town of Islip Compost Facility.
- Performed condition assessments for the Latimer Reef and Little Gull Light Stations in Southold, NY.
- Feasibility Study (FS) to prevent the potential migration of a PCB oil pool/contaminated aqueous plume and peat layer settlement due to dewatering activities at Sunnyside Yard, Queens.
- FS for disposal alternatives for permanent subway dewatering activities in Brooklyn and Manhattan, NY.
- FS for property consolidations and expansion of shopping centers in Long Island. Site development potential was evaluated in accordance with local ordinances/codes.
- Evaluated roof leaks, mold investigation, and designed corrective action for Great Neck Post Office, NY.

Regulation Compliance/Permitting

- Suffolk County Department of Health Services (SCDHS) Article 12 and Nassau County Department of Health (NCDOH) Article 11 Toxic and Hazardous Material Storage Facility Permits for NYSOGS, USPS, NYS Parks, and private clients.
- UST compliance inspections in accordance with NYSDEC - Petroleum Bulk Storage (PBS) and Chemical Bulk Storage (CBS) regulations; SCDHS Article 12; NCDOH Article 11; and National Fire Protection Agency (NFPA) codes for NYSOGS, NYSDOT, USPS, and private clients.
- Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System (SPDES) permits for industrial and stormwater discharges for NYSOGS, NYCT, USPS, and private clients.
- Environmental compliance audits covering the Clean Air Act (CAA), Resource Conservation and Recovery Act (RCRA), Clean Water Act (CWA), Emergency Planning and Community Right to Know Act (EPCRA), and local regulations involving areas such as hazardous material storage for USPS and private clients.
- Air permitting and associated reporting including Title V and 76-19-3 air permits; new source review; seasonal variance applications; BACT analysis; emission statements; EPA NESHAP surveys, annual and semi-annual compliance certifications; Air Guide 1 and Screen 2 modeling; Air Facility Registrations; air quality assessments; emission reduction credits, and stack testing for VA, Islip, and private clients.
- Performed RCRA compliance activities involving waste stream characterizations; waste minimization; pollution prevention; manifest tracking; preparation of

quarterly, annual, and bi-annual reports; and training for USPS and private clients.

- Prepared hazardous waste closure plans in accordance with 6NYCRR 373-3 and implemented closure of hazardous waste management areas in accordance with 6NYCRR 373-3.7(c) for private clients.
- Performed EPCRA/Sara Title III audits, reporting and investigated administrative complaints for private clients.
- Prepared, reviewed, and certified numerous Spill Prevention Control and Countermeasure Plans (SPCCPs) in accordance with 40 CFR Part 112 for NYS Parks, NYCDOS, and private clients.
- UST Closure activities for private clients in Long Island, NY in accordance with SCDHS requirements.
- SCDHS Article 7 compliance reviews for restricted chemical storage for private clients.
- SCDPW sewer connection and agreements for private clients.
- Prepared and acquired NYCDEP construction dewatering permits for private clients in NYC.
- Developed Stormwater Management Plan for Town of Smithtown in response to USEPA notice of violations.
- Prepared SAPs and performed Indoor Air Quality Sampling for VOCs and mold for municipalities and industrial clients in Long Island.
- Baseline and semi-annual monitoring, BMR and SMR reporting, and sampling for wastewater discharges for compliance with NYCDEP and SCDPW requirements.
- Performed health and safety monitoring at investigation and remediation sites during intrusive activities. Monitoring included calibration and operation of photoionization detector (PID) and flame-ionization detector (FID) for organic vapors and combustible gas indicator (CGI) for methane. Compared results to applicable action levels and took preventative/protective measures as necessary.
- Site Specific Health and Safety Plans (HASPs) for USACE, USDA, NYSOGS, and private clients.
- Sound level studies to determine compliance with local noise ordinances for private clients.
- Prepared engineering reports for Long Island Well permits.
- Prepared Solid Waste Management Plan (SWMP) for Town of Riverhead.
- Performed compliance inspections and corrected NOV's for shellfish operation in Westbury, NY.

Site Investigation & Remediation

- Petroleum Spill Investigations (gasoline, diesel, No. 2 and No. 6 fuel oil, and lubricating oil) and associated closure work for tanks and other types of discharges for NYSOGS, USAF and private clients in the metropolitan and upstate NY regions.

- Identification, characterization, and removal of hazardous material and hazardous waste at industrial facilities and psychiatric centers for NYSOGS and private clients in Long Island and NYC.
- Developed and Implemented SAPs for USCG Station dredging projects in Long Island in accordance with NYSDEC Region 1 Marine Habitat Division protocols.
- Quarterly and semi-annual sampling/monitoring and reporting in accordance with NYSDEC Part 360 regulations for several landfills in Long Island.
- ASTM Phase I Environmental Assessments for property transactions in Suffolk, Nassau, and the five boroughs of New York.
- Sampling and Analysis Plans for Phase II investigations in Long Island and NYC.
- Groundwater, soil, and air sampling at numerous sites on Long Island and NYC for landfill closures, remedial investigations, and petroleum spills.
- Hazardous, Toxic, and Radioactive Waste (HTRW) Surveys and Preliminary Assessments in NY and NJ for FAA and USACE.
- Polychlorinated Biphenyl (PCB) basewide (3500 acres) evaluation of electrical equipment at Griffiss Air Force Base.
- Anthrax sampling for IRS mail sorting facilities in Holtsville, NY, and Andover, MA.
- Performed Indoor Air Quality Studies for office buildings in Long Island, NY.
- Performed Environmental Assessment Boring Programs (EABP) for NYCT stations/substation construction projects.
- Remediation of lead contaminated soil at four water tower sites at Barksdale Air Force Base, LA via excavation/disposal. Feasibility studies, work plans, Health and Safety Plans, Closure Reports, and No Further Response Action Planned Memorandums were prepared in conjunction with the remediation.
- In-situ soil remediation of VOCs through vapor extraction and soil aeration techniques at Long Island and NJ contaminated sites.
- Estimated the remaining volume and footprint for the Youngs Avenue Landfill, Riverhead, NY, which currently was in full scale reclamation mode, via a boring and excavation plan involving numerous deep borings and shallow test pits and topographic surveys/landfill maps.
- Cultural resource projects for USACE and FAA in the northeast region including cultural resource surveys; cultural resource assessments; underwater archeology surveys; and recordations.
- Wetland Delineations and Biological Surveys (Grassland Birds) in support of FAA EAs at Teterboro Airport.
- Historic Preservation Plan for Plum Island NY and Historic Structure Report for Plum Island Light Station, Plum Island Animal Disease Center, NY.
- Environmental Scoping Document and presentation agenda for the District's Atlantic Coast of Long Island Fire Island Inlet to Montauk Point, NY Storm Damage Reduction Reformation Study.
- Preliminary Environmental Assessment (PEA) Reconnaissance Studies for USACE Flood Control and Shore Protection Projects in South River, Raritan River Basin, NJ and Cliffwood Beach, NJ.
- Environmental assessment and architectural and historical study for a USMA historical building/site at West Point, NY.
- Draft Supplemental Environmental Impact Statement (EIS) Limited Reevaluation Study for the Deepening of the Arthur Kill/Howland Hook Navigation Channel in NY/NJ.
- Water resources impact analysis for Ramapo Energy Limited Partnership DEIS.
- Long and Short Environmental Assessment Forms (EAFs) for construction and site development projects in Long Island, NY.
- Environmental Assessments for Federal Aviation Administration (FAA) navigational aid projects at numerous airports in the northeast region in accordance with the National Environmental Policy Act (NEPA) and FAA order 1050.1D Policies and Procedures for Considering Environmental Impacts. Airport projects included Instrument Landing Systems (ILS), Approach Lighting Systems, Remote Transmitters, Doppler Equipment, Air Traffic Control Towers and Air Route Traffic Control Centers. Airports and support areas included Teterboro, Richmond Intl, Baltimore Washington Intl, Syracuse-Hancock Intl, Newark Intl, Stewart, Philadelphia Intl, LaGuardia Intl, and Leesburgh.
- Environmental assessments for the Army and Air Force Exchange Service (AAFES) at bases in Oahu, HI in accordance with NEPA, AR-200 Environmental Effects of Army Actions and DOD Directive 6050.1 Environmental Effects in the US of DOD Actions. Projects included capital improvement projects at Schofield Barracks, Helemano Military Reservation, Aliamanu Military Reservation, and Bellows Air Force Base.
- Surveying and mapping 3 shoreline and wetland conservation areas as part of a stipulation agreement between NYSDEC and PIADC on Plum Island, NY.

Environmental Impact Analysis

- Coastal/Biological Monitoring Program components for the USACE, New York District Beach Erosion Control Projects including intertidal ichthyoplankton studies, intertidal offshore finfish studies, nearshore and offshore benthic sampling, water quality analysis, and creel census.

- Environmental Assessment for Rehabilitation of the Mine Lake Dam for USAG West Point, NY.
- Long Form EAF and Pine Barrens Core Preservation Area application for Westhampton Ready Mix Corp.
- Evaluated stormwater and subsurface impacts for D/FEIS and Findings Statement for parking improvements and conversion of building use from warehouse to office space at a 93-acre site in Village of Lake Success/Town of North Hempstead, NY.
- Evaluated Planned Development District (PDD) Alternatives for former 105-acre Dowling College site in Brookhaven, NY.
- Hazardous waste and disposal issues for case between defendant/Salinger & Sack and Ecolab, Inc.
- Engineering and Permitting issues for case between Town of Brookhaven and BRT for new rail line in Yaphank, NY. Landfill volume evaluation and closure alternatives for case between Town of Riverhead and Grimes Contracting.
- Hydrology and stormwater issues for case between Town of Greenburgh and Fortress Bible Church.
- Site contamination and site management plans, engineering and institution control issues for case between Town residents and City of Glen Cove/developers in Glen Cove, NY.

Expert Witness Testimony

- Beach erosion and accretion issues and evaluation of engineering/construction alternatives for case between Sea Gate Beach Club and USACE.



Mr. Bukoski is an Environmental Scientist with diversified experience in both the Federal and private sector, including groundwater and soil investigations and evaluation, soil remediation projects, soil vapor intrusion evaluation, aquifer testing and interpretation, design and management of soil and groundwater remediation projects, groundwater flow modeling, evaluation of site compliance with environmental regulations, air quality evaluations, and environmental permitting.

Functional Role	Title	Years of Experience
Environmental Scientist	Project Manager	21

Personal Data

Education

B.S./1998/Environmental Science/SUNY Buffalo

Registration and Certifications

Professional Geologist, NY #438

OSHA 40-hr and current 8-hr Health and Safety Training Course (1999-present)

OSHA-Approved 8-hr Health and Safety Training Refresher Courses (2000-Present)

OSHA-Approved 8-hr Site Safety Supervisor Training Course (2008)

MTA NYC Transit Track Safety Certification

National Groundwater Association

Long Island Association of Professional Geologists

Advanced Technologies for Natural Attenuation Certification

Employment History

1999-present FPM Group

1991-1998 Sutherland's Office Centre

1985-1991 United States Marine Corps

Detailed Experience

Site Investigations

- Performed Phase I Environmental Site Assessments and Phase II Investigations for numerous sites in New York State, including commercial buildings, aerospace facilities, former research and development facilities, and large manufacturing plants.
- Provided oversight and coordination for ongoing investigation and remedial projects at numerous New York State Inactive Hazardous Waste Disposal (Superfund) Sites, Voluntary Cleanup Program (VCP) Sites, and Brownfield Cleanup Program (BCP) Sites. Investigations included Site Characterization (SC), Remedial Investigation/Feasibility Studies (RI/FS), and RCRA Facility Investigations. Remedial services have included contaminated soil removals; UIC closures, ORC

and HRC injections; design, installation and operation of air sparge/soil vapor extraction (AS/SVE) systems; sub-slab depressurization systems (SSDS) and, capping.

- Managed site investigation activities, including soil vapor and air sampling, soil sampling and analysis, groundwater sampling and analysis, and geotechnical evaluation for numerous sites in New York State in support of negotiations for property purchases and redevelopment.
- Investigated several petroleum-contaminated spill sites at Griffiss AFB, Rome, NY. Performed soil and groundwater sampling via Geoprobe, installed groundwater wells for monitoring and assessment of attenuation. Proposed remediation technologies for soil and groundwater contamination. Analyzed chemical data and prepared Site Investigation (SI) Reports and closure reports.
- Investigated several chlorinated solvent-contaminated sites at Griffiss AFB, Rome, NY. Performed aquifer testing to establish direction of groundwater flow. Collected groundwater samples and analyzed the chemical data to identify the constituents of concern. Proposed remediation technologies for groundwater contamination.
- Supervised drilling installation, development, and sampling of monitoring wells at numerous sites throughout New York State. Utilized resulting stratigraphic, hydrologic, and chemical analytical data to evaluate site conditions. Prepared investigation reports identifying site history, contaminant characteristics, sampling methods, and site-specific lithology.
- Managed landfill monitoring projects at several landfills in Suffolk County. Collected and evaluated methane and groundwater monitoring data. Prepared reports documenting monitoring results and provided recommendations regarding methane collection, stormwater runoff, capping, and other landfill management strategies.

- Performed long-term monitoring projects at several landfills at Griffiss AFB. Collected groundwater, leachate, and surface water samples. Evaluated resulting data and prepared monitoring reports for state and federal agency review.

Remediation

- Performed investigation and remedial activities at several NYSDEC BCP sites in New York City. Prepared Remedial Investigation and Remedial Work Plans; coordinated with the owner, contractors, and the NYSDEC; conducted citizen participation activities; performed waste characterization, waste profiles, and waste management; developed Site Management Plans for NYSDEC approval.
- Performed waste characterization of a 90,000-cy construction soil stockpile at a municipal sewer facility. Responsibilities included development and implementation of Sampling and Analysis Plan (SAP), evaluation of lab data, preparation of Field Sampling Summary Reports (FSSR), coordination with disposal facilities, and preparation of waste profiles.
- Developed pilot test plans, evaluated pilot test results, and prepared conceptual designs for several air sparge/soil vapor extraction (AS/SVE) systems to treat petroleum and/or chlorinated solvent VOCs. Provided construction oversight for system installation. Performed routine system operation monitoring and evaluated system performance. Prepared system installation and monitoring reports.
- Assisted in the design of a soil remediation plan and performed construction and soil remediation oversight for a metal parts plating and manufacturing facility in Suffolk County, New York. Remediated numerous leaching pools impacted with petroleum compounds and metals. Prepared a UIC Closure Report for USEPA approval.
- Assisted in the design and oversight of indoor underground storage tank abandonment program, leaching pool remediation plan, and managed contractor support for several manufacturing facilities in Suffolk County, New York.

Hydrogeologic Evaluations

- Performed well design (gravel pack size, screen size, etc.) for numerous groundwater wells and variable depths on Long Island. Experience includes sieve analyses, well construction and development methods.
- Performed aquifer pumping and slug tests and evaluated hydrologic properties using the computer

program AQTESOLV for several sites in New York City and Long Island.

- Participated in multi-day, multi-well aquifer pumping test for New York City Transit (NYCT). Responsible for operating and maintaining data logging equipment, coordinating manual water level measurements, and analyzing resulting drawdown data.
- Performed water level and water quality monitoring at several sites in Nassau and Suffolk Counties. Constructed groundwater elevation contour maps and utilized chemical analytical data to predict contaminant plume migration.
- Supervised drilling, installation and development of groundwater monitoring wells at three sites within Griffiss AFB, NY and numerous sites in New York City and Long Island. Performed aquifer testing and constructed groundwater elevation contour maps to delineate plumes and predict contaminant plume migration.

Landfills

- Managed ongoing groundwater and methane monitoring programs for Town of East Hampton landfills. Responsibilities included field team coordination, communications with the Town, report scheduling, data package review, and report preparation for distribution to the client and NYSDEC.
- Managed and conducted quarterly methane monitoring at Springs-Fireplace Road and Montauk Landfills for the Town of East Hampton. Tabulated resulting data, evaluated historic methane monitoring results, and recommended appropriate actions including methane monitoring well installations and a methane extraction system. Performed off-site methane monitoring on private property confirm methane containment. Prepared quarterly monitoring reports for submittal to the Town and NYSDEC.
- Performed monthly methane monitoring and prepared monitoring reports for all Town of Islip Landfills. Monitoring program included onsite and offsite methane wells, methane collection systems, and flare systems. Data was recorded electronically and downloaded to computer for formatting prior to delivery to Town. Prepared monthly monitoring reports for submittal to the Town and NYSDEC.
- Produced quarterly and annual monitoring reports for all monitoring programs at Town of Smithtown landfill. Project included tabulation and reporting of groundwater and methane monitoring data, solid waste and recycling collection data, yard waste

composting operations, and landfill leachate collection and disposal data.

Water Quality Monitoring

- Conducted groundwater monitoring for the Town of Riverhead, including sampling a multi-depth monitoring well network, analysis and interpretation of analytical and hydrogeologic data, and monitoring reporting in accordance with NYSDEC requirements. Responsibilities including sampling, communications with the Town, laboratory data package review, and report preparation for distribution to the client and NYSDEC.
- Conducted investigation and remedial projects at several New York State BCP Sites. Tasks included contaminated soil removal, groundwater remediation and long-term monitoring, groundwater plume evaluation, and preparation and submittal of annual reports to the NYSDEC.
- Coordinated and performed onsite and offsite groundwater monitoring at various petroleum release sites on Long Island, the New York metropolitan area and in Westchester County in accordance with NYSDEC requirements. Utilized resulting stratigraphic, hydrologic, and chemical analytical data to evaluate site conditions. Prepared work plans identifying site history, contaminant characteristics, sampling methods, and site-specific lithology. Monitoring programs generally included installation and sampling of a multi-depth monitoring well network utilizing standard or low flow sampling techniques, analysis and interpretation of analytical and hydrogeologic data, and reporting.
- Performed water level and water quality monitoring at an industrial site in Mattituck, NY. Constructed groundwater elevation contour maps and utilized chemical analytical data to predict contaminant plume migration. Prepared reports, coordinated with the property owner and NYSDEC, and developed a closure plan.
- Conducted numerous investigations and remediation of contaminated cesspool and stormwater drain pool systems in Nassau and Suffolk County. Fully conversant with County regulations for investigation and cleanup of leaching pool systems, including Action Levels and Cleanup Standards, groundwater monitoring criteria, and remedial requirements.

Griffiss Air Force Base

- Conducted several Site Investigations for AFCEE. Performed soil and groundwater sampling, aquifer testing, and recommended cleanup procedures necessary for the closure and conversion of the Base. Responsible for compliance with all applicable laws including CERCLA, SARA, RCRA, and NCP.

Roslyn Air National Guard Station

- Conducted several Site Investigations for Roslyn ANG base closure work. Performed soil and groundwater sampling, aquifer testing, and mold evaluations. Prepared reports documenting recommended cleanup procedures necessary for the closure and conversion of the Base. Responsible for compliance with all applicable laws including CERCLA, SARA, RCRA, and NCP.

Health and Safety

- Prepared numerous health and safety plans for remediation and construction sites and served as health and safety officer at a variety of work sites.
- Performed health and safety monitoring at investigation and remediation sites during intrusive activities. Monitoring included calibration and operation of photoionization detectors (PIDs), flame-ionization detectors (FIDs), dust monitors, and combustible gas indicators (CGI). Compared results to applicable action levels and undertook preventative/protective measures as necessary.
- Performed community monitoring, including monitoring for noise, particulates (dust), and organic vapors at several sites throughout New York State. Recorded observations and compared to applicable action levels. Implemented calibration and operation programs and training for noise meters, particulate monitors, PIDs, and FIDs.
- Performed screening for radiation at several sites. Operated Geiger counters in different radiation modes and compared data to background readings.

Miscellaneous Projects

- Performed unexploded ordnance evaluations and mapping for the United States Marine Corps at several munitions ranges in 29 Palms, California, and Camp Lejeune, North Carolina.
- Conducted land survey and mapping for the United States Marine Corps at several artillery ranges in 29 Palms, California and Camp LeJeune, North Carolina.

APPENDIX C

EC/IC CERTIFICATION



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



Site Details

Box 1

Site No. **130155**

Site Name **Award Packaging Corp.**

Site Address: 625 South Street Zip Code: 11530

City/Town: Garden City

County: Nassau

Site Acreage: 2.109

Reporting Period: April 29, 2020 to April 29, 2021

YES NO

1. Is the information above correct?

☒ ☐

If NO, include handwritten above or on a separate sheet.

2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?

☐ ☒

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?

☐ ☒

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?

☐ ☒

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?

☐ ☒

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Commercial and Industrial

☒ ☐

7. Are all ICs in place and functioning as designed?

☒ ☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

Description of Institutional ControlsParcelOwnerInstitutional Control**44.77-45**~~David and Richard Cohen~~

SITE OWNER IS ROCOCO ASSOCIATES, INC.

Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan

IC/EC Plan

Limit land use to commercial and industrial uses. Prohibit the use of groundwater underlying the property without necessary treatment. Quarterly monitoring of groundwater.

44.77-46~~David and Richard Cohen~~

SITE OWNER IS ROCOCO ASSOCIATES, INC.

Ground Water Use Restriction
Landuse Restriction
Monitoring Plan
Site Management Plan
O&M Plan
IC/EC Plan

Limit land use to commercial and industrial uses. Prohibit the use of groundwater underlying the property without necessary treatment. Quarterly monitoring of groundwater.

Description of Engineering ControlsParcelEngineering Control**44.77-45**Cover System
Air Sparging/Soil Vapor Extraction
Vapor Mitigation
Monitoring Wells

Air sparge/soil vapor extraction system to remediate contaminated soil and groundwater. A site cover to prevent contact with remaining contamination and prevent leaching of contaminants into the groundwater.

44.77-46Vapor Mitigation
Cover System
Air Sparging/Soil Vapor Extraction
Monitoring Wells

Air sparge/soil vapor extraction system to remediate contaminated soil and groundwater. A site cover to prevent contact with remaining contamination and prevent leaching of contaminants into the groundwater.

Periodic Review Report (PRR) Certification Statements

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

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

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

- (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

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

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

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. 130155

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jill S. Lefkowitz at 223 Wall St, #162, Huntington, NY 11743
print name print business address

am certifying as owner (Owner or Remedial Party)

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

Jill S. Lefkowitz
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

7/8/21
Date

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I KEVIN LOYST at FPM GROUP, 640 JOHNSON AVE, STE 101, BOHEMIA NY 11716
print name print business address

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


Signature of Professional Engineer, for the Owner or
Remedial Party, Rendering Certification



7-13-21
Date

(Required for PE)

APPENDIX D

SYSTEM OPERATING LOG

SOIL-VAPOR EXTRACTION/AIR SPARGE SYSTEM OPERATING LOG
AWARD PACKAGING SITE NYSDEC SITE NO. 130155
625 SOUTH STREET, GARDEN CITY, NEW YORK

Date	SVE/AIR SPARGE MONITORING DATA						Comments/ Observations
	SVE System						
	Vacuum Before Air Filter	Vacuum After Air Filter	Vacuum at Well SVE-1	Vacuum @ Well SVE-2	Total System Flowrate	Discharge Analysis w/PID	
5/10/2023	-68	-68	-40	-40	150	0.0	System offline upon arrival; reset and ran for a few minutes before taking readings: MW-7: 1.014, MP-2: 0.012, MP-3: 0.011
06/16/2023	-	-	-	-	-	-	Sytem offline due to malfunctioning water knock vessel sensor. Replacement sensor order.
7/21/2023	-60	-60	-30	-30	130	3.8	System Knockout Drum Sensor Replaced; System was previously off. After waiting 20 minutes, the readings were then taken: MW-7: 0.043, MP-2: 0.008, MP-3: 0.016
8/24/2023	-60	-60	-40	-40	130	0.0	
9/20/2023	-80	-80	-40	-40	130	0.0	System offline upon arrival; reset and ran for a few minutes before taking readings: MW-7: 0.098, MP-2: 0.042, MP-3: 0.019
10/26/2023	-80	-80	-50	-50	120	0.0	Readings: MW-7: 0.678, MP-2: 0.032, MP-3: 0.021
11/28/2023	-80	-80	-50	-50	125	0.0	Readings: MW-7: 0.021, MP-2: 0.002, MP-3: 0.011

Notes:

"H₂O = inches of water

scfm = standard cubic feet per minute

ppm = parts per million

psi = pounds per square inch