



**Environmental Consulting
and Management Services**

10 Filmont Drive
New City, NY 10956

Tel: 845-638-0640
Cell: 914-523-1523
info@ecmsny.com

Monday, June 27, 2022

Sent Via Email: michael.squire@dec.ny.gov

Mr. Michael Squire
Assistant Engineer
New York State Department of Environmental Conservation
Division of Environmental Remediation, Remedial Bureau C
625 Broadway, 11th Floor
Albany, New York 12233-7014

Sent Via Email: cacdean@aol.com

Mr. Charles Collishaw
c/o 171 No. Pascack Road Corp.
529 Route 303
Orangeburg, NY 10962

RE: V00456 Congers Colonial Plaza Periodic Review Report April 1, 2021 to May 1, 2022

Dear Mr. Collishaw and Mr. Squire

Environmental Consulting and Management Services, Inc. (ECMS) has prepared the enclosed Periodic Review Report (PRR) and site certification report in response to the March 15, 2022 site reminder notice for V00456 Congers Colonial Plaza. The site is located at 285 Route 303, Congers Town of Clarkstown, Rockland County, New York 10920. The scope was completed based on communications with the department and site management plan requirements.

Based upon ECMS's review of the April 6 2022, NYSDEC Letter, ECMS will draft a workplan within 30 days of this PRR submittal which will adhere to established requirements for conducting sampling and evaluation of the site in the Fall 2022 heating season.

If you have any questions regarding the information contained in the report, please contact Harry Sudwischer at (203) 241-1030 or via email at harrys@ecmsny.com.

Sincerely,

Harry Sudwischer
Director of Remediation and Spills

Marc Rutstein
President

Enclosed: Periodic Review Report: April 1, 2021 to May 1, 2022

Electronic Copy Via Email:

Amen M. Omorogbe, NYSDEC, Section Chief

Dan Bendell, NYSDEC, Hazardous Waste Remediation Supervisor, Region 3

www.ecmsny.com



Periodic Review Report

Reporting Period: April 1, 2021 to May 1, 2022

Site Number: V00456

Site Name: Congers Colonial Plaza

Address: 285 Route 303

Congers, Town of Clarkstown, Rockland County, New York 10920

Date: June 27, 2022

Prepared by:

Harry Sudwischer

Director of Remediation and Spills

Environmental Consulting and Management Services, Inc.

10 Filmont Drive

New City, New York 10956

Prepared for:

Mr. Charles Collishaw

171 No. Pascack Road Corp.

529 Route 303

Orangeburg, NY 10962



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PERIODIC REVIEW REPORT

Dated: June 27, 2022

REPORTING PERIOD: April 1, 2020 to May 1, 2022

SITE NUMBER: V00456

SITE NAME: Congers Colonial Plaza

TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
1.0 SITE OVERVIEW	2
2.0 REMEDY PERFORMANCE, EFFECTIVENESS, & PROTECTIVENESS.....	3
2.1 Engineering Control Systems	3
2.2 Institutional Control Systems	3
2.3 Conclusions	4
3.0 MONITORING PLAN COMPLIANCE REPORT	5
4.0 OPERATION & MAINTENANCE PLAN COMPLIANCE.....	5
4.1 Winter 2021-2022 Indoor Air and Sub-Slab Vapor Sampling	6
4.2 Winter 2020 -2021 Indoor Air and Sub-Slab Vapor Sampling.....	6
5.0 CONCLUSIONS AND RECOMMENDATIONS.....	8
6.0 REFERENCES	8

FIGURE

FIGURE 1 SITE PLAN SHOWING SAMPLE LOCATIONS AND RESULTS OF 2020-2021 SAMPLES

TABLE

TABLE 1 SUMMARY OF 2020-2021 SUB-SLAB SOIL VAPOR AND INDOOR AND AMBIENT AIR RESULTS

TABLE 2 HISTORIC PCE CONCENTRATIONS: SOIL VAPOR, INDOOR AIR, & OUTDOOR AIR

APPENDICES

APPENDIX A INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM

APPENDIX B GENERAL SITE-WIDE INSPECTION CHECKLIST

APPENDIX C APRIL 6, 2022 NYSDEC/ NYSDOH LETTER

APPENDIX D 2021 & 2022 NYSDOH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

APPENDIX E 2021 CATEGORY B DATA DELIVERABLES

APPENDIX F 2021 DATA USABILITY SUMMARY REPORT



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PERIODIC REVIEW REPORT

JUNE 2022

EXECUTIVE SUMMARY

Environmental Consulting and Management Services, Inc., was retained by 171 No. Pascack Rd Corp. to prepare this Periodic Review Report (PRR). This PRR documents the annual inspection at the property identified as 285 Route 303, Congers, Town of Clarkstown, Rockland County, New York 10920 (Site). A discharge of dry cleaning fluid, which contained tetrachloroethene (PCE), occurred in October 2000 at a leasehold formerly operated by First Class Dry Cleaners. Remedial activities at the Site were conducted by RND Services, Inc. between 2001 and 2006 to address the discharge. Among the soil and groundwater remediation activities were soil excavation and several injections of in-situ chemical oxidants. Two (2) soil vapor extraction (SVE) systems, identified as VES-1 and VES-2, were installed. Following treatment of soil and groundwater, residual PCE contamination remained. To limit the likelihood of exposure to the residual PCE contamination, Engineering Controls (ECs) and Institutional Controls (ICs) were established.

The ECs consisted of the building slab, which was cover to prevent direct contact between building occupants and PCE-impacted soil below the foundation, and the SVE systems, which addressed the potential for PCE-impacted soil vapor to migrate into the indoor air. Pursuant to the New York State Department of Environmental Conservation (NYSDEC) Decision Document dated December 2011, no further action was required for the Site upon the implementation of a Deed Restriction, which became an IC and was used to memorialize the ECs and to restrict land use. An NYSDEC-approved Site Management Plan (SMP), which is dated December 2013, established the annual inspection program. Annual inspection has been carried out, and this PRR documents the most recent (March 29, 2022) annual inspection scope. On March 21, 2022, the owner noticed the VES-1 was not operating normally and was starting to smoke. The owner shut down the system to prevent fire. A replacement SVE blower was sourced and installed on March 29, 2022. The SVE system was reactivated on March 29, 2022 and was inspected by ECMS to be operating properly on March 29, 2022.

This PRR was prepared in accordance with the SMP and the NYSDEC document entitled *Technical Guidance for Site Investigation and Remediation*, dated May 3, 2010, and last revised April 9, 2019 (DER-10). This PRR details the results of the inspection conducted on March 29, 2022. ECMS has enclosed the prior soil vapor and indoor air sampling event conducted on March 10, 2021 as that was the most recently available data. .

The results of the annual Site inspection indicate that the Site is following the SMP. Further, all ECs and ICs remain protective. Additionally, ECMS has reached the following conclusions and makes the following recommendations:

- The cover system, comprised of the building slab, is intact and is effectively preventing direct contact with residual PCE-impacted soil.
- Land use is consistent with the Deed Restriction.
- The SVE systems are functioning as intended and are effective in mitigating potential exposure by building occupants to soil vapor.
 - o The March 29, 2022 repairs to VES-1 were successful.
- Based upon ECMS's review of the April 6 2022, NYSDEC Letter, ECMS will draft a workplan within 30 days of this PRR submittal which will adhere to established requirements for conducting sampling and evaluation of the site in the Fall 2022 heating season.



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PERIODIC REVIEW REPORT

JUNE 2022

1.0 SITE OVERVIEW

The Site is located in Congers, Town of Clarkstown, Rockland County, New York and is identified as Section 35.19 Block 2 Lot 11 on the Town of Clarkstown Tax Map. The Site is an approximately 2.8-acre parcel bounded by undeveloped land to the north and west, Meola Road to the south beyond which are residential properties, and Route 303 to the east beyond which are commercial properties. The Site, identified as Congers Colonial Plaza, is currently improved with one (1) building which was constructed in 1990 as a multi-tenant commercial space. Prior to construction in 1990, the Site was vacant land. Tenant spaces at the Site generally are or have historically been occupied by retailers, doctor's offices, restaurants, a day care center, and a dry cleaner. A Site Plan is included as Figure 1.

According to the RND Services Inc. document entitled *Remedial Action Summary Report* (RASR) and dated August 2006, initial remedial activities were conducted at the Site to address a discharge that occurred during the dismantling of a dry cleaning unit at the former First Class Dry Cleaners in October 2000. Results of the indoor air sampling event conducted by RND in the former First Class Dry Cleaners leasehold indicated that PCE concentrations were detected above the New York State Department of Health (NYSDOH) guidelines. Based on the sampling results, the NYSDEC required ECs and ICs to control exposure.

In order to investigate the source of PCE contamination detected in indoor air, RND excavated test pits and collected soil samples from below the former First Class Dry Cleaner. Soil analytical results indicated that PCE was detected above the Recommended Soil Cleanup Objective (RSCO) of 1.3 ppm. Soil excavation activities were conducted for PCE-impacted soil below the basement of the former First Class Dry Cleaner in February and March 2001. Additionally, multiple potassium permanganate injection events were conducted at the Site to address the residual PCE concentrations in soil and groundwater. Prior to backfilling the excavation, two (2) SVE systems were installed at the Site to mitigate potential exposure by occupants to residual sub-slab soil vapor vapors. One (1) system, VES-1, was installed in the basement of the former First Class Dry Cleaner and the second system, VES-2, was installed in the garage adjacent to the western side of the former Tutor Time tenancy.

Upon completion of the excavation activities, post-excavation soil sampling was conducted. Soil analytical results indicated that PCE concentrations in soil remain above the RSCO of 1.3 ppm in three (3) of the six (6) sample locations. According to RND Services, Inc., no additional soil could be excavated without jeopardizing the structural integrity of the subject building. Therefore, the residual soil contamination was left in-place with a soil cover system, consisting of the concrete building slab, to prevent direct exposure to the PCE-contaminated soil remaining beneath the commercial building.

Pursuant to NYSDEC's Decision Document dated December 2011, no further action was required for the Site with the continued operation of the SVE systems and the establishment of a deed restriction limiting the land use at the Site to restricted residential, commercial, or industrial use. A SMP dated December 2013 was approved by NYSDEC and NYSDOH on June 12, 2014.



PERIODIC REVIEW REPORT

JUNE 2022

2.0 REMEDY PERFORMANCE, EFFECTIVENESS, & PROTECTIVENESS

The remedies implemented at the Site include ECs and ICs to protect human health and the environment. The ECs at the Site consist of a soil cover system and the SVE systems and the IC consists of land use restrictions. Based on the March 29, 2022 site inspection and ECMS' prior assessment of the air analytical results of the March 10, 2021 soil vapor and indoor air sampling effort, the Site is compliant with the SMP. The NYSDOH requested ECMS shut down the SVE systems system for 30 days prior to the sampling event which would have pushed the sampling event significantly beyond the traditional NYSDOH heating season, so air sampling from 2022 was unable to be performed. The prior results indicate that the ICs and ECs are successfully reducing potential exposures to the residual PCE impacts.

2.1 Engineering Control Systems

The ECs at the Site consist of a soil cover system and two (2) SVE systems. The soil cover system prevents direct exposure to residual soil contamination left in-place below the former First Class Cleaners tenant space at the Site. This cover system is comprised of the concrete building slab. The two (2) SVE systems, VES-1 and VES-2, are installed at the Site to limit exposure of occupants to PCE in soil vapor under the building slab. VES-1 is located in the basement below the former First Class Dry Cleaners and VES-2 is located in a garage adjacent to the western portion of the former Tutor Time tenancy. The locations of the SVE system extraction points are depicted on Figure 1. In accordance with the NYSDEC correspondence dated November 30, 2005, the SVE systems are required to be operated until PCE vapors in the indoor air, during non-operation of the VES, are below acceptable NYSDEC and NYSDOH levels. ECMS interprets this requirement to mean that the SVE systems must be operated until all compounds for which NYSDOH has established guidelines, must have soil vapor and indoor air results consistent with the "No Further Action" recommendation in NYSDOH Matrices A, B, and C.

ECMS conducted a Site inspection on March 29, 2022 to verify the operation of the SVE systems and the soil cover system. Tutor Time, a daycare facility that formerly operated on-Site, ceased operations at the Site in 2017. Their former tenant space remained vacant for a period, but is currently leased to Lil Genies, a day care center. During the March 29, 2022 Site inspection, the basement floor below the Lil Genies and former First Class Dry Cleaner was inspected and no cracks or breeches were observed. Therefore, the soil cover system remains protective of human health and the environment. VES-1 was not operation from March 21, 2022 to March 28, 2022. Upon inspection on March 29, 2022, both VES-1 and VES-2 were functioning as intended and comparable fashion to March 2021 inspections. .

2.2 Institutional Control Systems

A series of ICs were established at the Site to (1) implement, maintain, and monitor EC systems; (2) prevent future exposure to residual PCE impacts; and (3) limit the use and development of the Site to restricted residential, commercial, or industrial uses only.



PERIODIC REVIEW REPORT

JUNE 2022

The Site has a series of ICs in the form of land use restrictions. Adherence to these ICs is required by the Environmental Deed Restriction and is implemented under the SMP. The land use restrictions that apply are as follows:

- The Site may only be used for restricted residential, commercial, or industrial use provided that the long-term ECs and ICs included in the SMP are employed;
- The Site may not be used for a higher level of use, such as unrestricted residential use, without additional remediation and amendment of the Environmental Deed Restriction, as approved by the NYSDEC;
- All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- The use of the groundwater underlying the Site is prohibited without treatment rendering it safe for intended use with the exception of the well currently used to provide water to washing machines at the on-Site laundromat tenancy;
- The potential for vapor intrusion must be evaluated for any buildings constructed in the future at the Site, and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens and farming on the property are prohibited; and,
- The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access the Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or at an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

During the March 29, 2022 site inspection, land use at the site complied with the established ICs. The site was operated for commercial use, an acceptable use pursuant to the ICs described above. No new structures have been constructed at the site since the establishment of the Environmental Deed Restriction. No activities were conducted at the Site that disturbed the cover or underlying contaminated material. The IC checklist and certification are attached as **Appendix A**.

2.3 Conclusions

Based on the March 29, 2022 inspection, the site followed the ICs detailed in the SMP. Following the repair to VES-1 on March 29, 2022, both SVE systems are operating as intended. Soil vapor and indoor air samples could not be collected in time before the heating season ended (see section 4.1). The analytical results from the prior sampling event are enclosed for review. The Institutional and Engineering Controls Certification Form is included as Appendix A and the General Site-Wide Inspection Checklist is included as Appendix B.



PERIODIC REVIEW REPORT

JUNE 2022

3.0 MONITORING PLAN COMPLIANCE REPORT

The Monitoring Plan describes the measurements for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the soil cover system, and all affected environmental media. Exposure to remaining contamination in soil at the Site is prevented by a soil cover system placed over the residual soil contamination. This cover system is comprised of the concrete building slab. Pursuant to the SMP, the Monitoring Plan for the cover at the Site consists of an annual inspection. During each inspection, the integrity of the basement floor in the former Tutor Time and former First Class Dry Cleaner is evaluated. Soil cover monitoring is covered separately from the other ECs because it is a passive component of the Site remedy. The Monitoring Plan for the active ECs is included with the Operation and Maintenance Plan for these systems in Section 4.0.

A site inspection was conducted on March 29, 2022. The concrete slab basement floor of the former Tutor Time and former First Class Dry Cleaner were inspected, and no cracks or breeches were observed. It should be noted that the former Tutor Time leasehold is currently occupied by the Lil Genies day care business, but the basement space is not currently used or occupied. The former First Class Dry Cleaner space is used by the property owner for office space. The First Class Dry Cleaner associated basement space is used only for material storage purposes and is not continuously occupied. The Institutional and Engineering Controls Certification Form is attached as **Appendix A** and the General Site-Wide Inspection Checklist is attached as **Appendix B**.

4.0 OPERATION & MAINTENANCE PLAN COMPLIANCE

The Operation and Maintenance Plan for the site describes the measures necessary to operate, monitor, and maintain the mechanical components of the two (2) SVE systems at the Site. The SVE systems at the Site, which reduce the likelihood of exposure by building occupants to historically impacted soil vapor below the slab, are system VES-1 and system VES-2. VES-1 is located in the basement below the former First Class Dry Cleaners and VES-2 is located in the garage adjacent to the western portion of the former Tutor Time tenancy. Pursuant to the SMP, the Operation and Maintenance Plan for the Site consists of an annual inspection of the SVE systems. During each inspection, a visual inspection of the complete system is conducted, and the General Site-Wide Inspection Checklist is prepared. SVE system components to be monitored include, but are not limited to, the vacuum blower and general system piping.

During the March 29, 2022 Site inspections, both SVE systems were inspected and were found to be working as intended. Vacuum was measured throughout the aboveground portion of both VES-1 and VES-2, and no damage was observed to any system component. Please note, on March 21, 2022 VES-1 was found to require repair by the property owner. The repair was successfully completed on March 29, 2022. The VES-1 was re-activated on March 29, 2022. The Site is following the SMP. Comparison of vacuum measurements to the previous General Site-Wide Inspection Checklist show that the systems are operating comparably to 2021. The Institutional and Engineering Controls Certification Form and the General Site-Wide Inspection Checklist are included as **Appendices A** and **B**, respectively.



PERIODIC REVIEW REPORT

JUNE 2022

4.1 Winter 2021-2022 Indoor Air and Sub-Slab Vapor Sampling

A sampling event could not be scheduled before the Winter 2021-2022 heating season ended. The NYSDEC/NYSDOH provided a letter dated April 6, 2022 establishing requirements for the proposed sampling event in Fall 2022. The letter is enclosed as Appendix C. ECMS will draft the requested work plan to evaluate the indoor air and sub-slab vapor in the Fall 2022 heating season. The NYSDEC/NYSDOH required ECMS turn both SVE systems off for a period of 30 days prior to sampling. As such, air samples were not collected as part of this PRR.

4.2 Winter 2020 -2021 Indoor Air and Sub-Slab Vapor Sampling

On March 10 2021 to confirm that VES-1 and VES-2 were limiting the potential migration of PCE from soil vapor to indoor air, thereby reducing the likelihood of occupants' exposure to PCE, ECMS collected soil vapor and air samples. Two (2) sub slab soil vapor samples (SS-1 and SS-2), one (1) indoor air sample (IA-1), and one (1) ambient air sample (AA-1) were collected and analyzed for halogenated TO-15 VOCs by Phoenix Environmental Laboratories, Inc. (Phoenix). Phoenix is a National Environmental Laboratory Accreditation Program (NELAP)-certified (Certification No. NY11301) analytical laboratory. Sample locations are shown in Figure 1. The associated 2021 and 2022 NYSDOH Indoor Air Quality Questionnaire and Building Inventory, which documents building use, construction, and integrity, among other things, is included in Appendix D. The most recent (March 2021) analytical results are summarized in Table 1 and Figure 1. Historical Analytical Data is presented in Table 2 The 2021 laboratory certification is included in Appendix E, and the associated Data Usability Summary Report is Appendix F.

Soil vapor samples SS-1 and SS-2 were collected by connecting tubing to existing sample ports, checking for a satisfactory seal using helium and a helium detector, and attaching a batch-certified six (6)-liter Summa canister to a flow regulator, which in turn was connected to the tubing. The Summa canister pressure and temperature were recorded, and the sampling was initiated. The sampling ended when the residual pressure in the Summa canister reached seven (7) inches of mercury, which occurred in 221 minutes (SS-1) and 229 minutes (SS-2). Following sample collection, the Summa canister valve was closed, the tubing was disconnected from the sampling port, and the sampling port was closed. The sample was labeled and was shipped to Phoenix under Chain-of-Custody documentation. Each sample was analyzed for a total of 32 halogenated VOCs. Of the 32 VOCs analyzed, only three (3) were detected. These compounds were trichloroethene (TCE) and dichlorodifluoromethane and trichlorofluoromethane. TCE was detected only in SS-1, while the other two VOCs were detected in both SS-1 and SS-2. The concentrations reported for these three compounds do not appear to be of concern, and the NYSDOH has established a guidance matrix for only TCE. The TCE result in SS-1 is discussed below, with respect to the indoor air sample IA-1 and NYSDOH Matrix A.



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PERIODIC REVIEW REPORT

JUNE 2022

The indoor air sample was collected by deploying a six (6)-liter Summa canister with a flow regulator such that the intake was in the breathing zone (three to five feet above the floor). The ambient air sample was collected by deploying a six (6)-liter Summa canister in the breathing zone at the rear of the building. The ambient air sample location was in the rear of the building so as to distance it from the traffic in the front parking lot. The indoor air sample was collected for approximately 232 minutes, while the ambient air sample was collected for approximately 231 minutes. Both air samples were stopped (i.e., the Summa canister valves were closed) once the residual vacuum reached 7 inches of mercury (IA-1) and 3.5 inches of mercury (AA-1). To the extent practical, the sub-slab, indoor air, and ambient air sample times overlapped so that the results could be compared to one-another. Of the 32 halogenated TO-15 VOCs, only four were detected in sample IA-1 and sample AA-1; TCE, chloromethane, dichlorodifluoromethane, and trichlorofluoromethane were detected in both samples. TCE, which is the only one of these four compounds to be included in an NYSDOH recommendation matrix, is discussed further below. Chloromethane was detected only in the indoor air and ambient air sample, and the concentrations (1.18 micrograms per cubic meter, or ug/m³, in IA-1 and 1.11 ug/m³ in AA-1) reported for both samples were similar. Coupled with the non-detect results in soil vapor samples SS-1 and SS-2, ECMS has concluded that the chloromethane detection is unrelated to vapor intrusion. Dichlorodifluoromethane and trichlorofluoromethane were detected at similar concentrations, ranging from 1.32 to 2.07 ug/m³ for dichlorodifluoromethane and 1.12 to 1.25 ug/m³ for trichlorofluoromethane, in all four samples collected on March 10, 2021. While the source of these VOC vapors is unclear, the concentrations are below levels of regulatory concern.

As noted above, TCE was the only detected compound for which the NYSDOH has developed a guidelines matrix. Matrix A applies to TCE. Based on the sub-slab soil vapor concentration at SS-1 (0.62 ug/m³) and the indoor air concentration at nearby location IA-1 (0.45 ug/m³), Matrix A recommends no further action. TCE was not detected in SS-2 or AA-1.

Given these soil vapor, indoor air, and ambient air sampling results, the SVE systems are working, as intended and are reducing the likelihood of building occupants being exposed to contaminants that migrated from soil vapor into the indoor air. ECMS notes that, because there were few compounds detected in soil vapor and the results do not support additional monitoring or mitigation, based on the NYSDOH guideline matrices, reduction in monitoring requirements and/or system cessation may be appropriate. ECMS proposes these options and will proceed only once a mutually agreed path is established. Based upon ECMS's review of the April 6 2022, NYSDEC Letter, ECMS will draft a workplan within 30 days of this PRR submittal which will adhere to established requirements for conducting sampling and evaluation of the site in the Fall 2022 heating season.



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PERIODIC REVIEW REPORT

JUNE 2022

5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the information documented in this PRR, ECMS offers the following conclusions and recommendations:

- The Site is in compliance with the SMP.
- The cover system, comprised of the building slab, is intact and is effectively preventing direct contact with residual PCE-impacted soil.
- Land use is consistent with the Deed Restriction.
- The SVE systems are functioning as intended and are effective in mitigating potential exposure by building occupants to soil vapor.
 - March 29, 2022 Repairs to VES-1 were successful. The vacuum measurements are consistent with previous ECMS 2021 inspection.
- The 2021 soil vapor, indoor air, and ambient air sampling data indicate that the SVE system was effectively mitigating potential exposures by building occupants to contaminated soil vapor.
- Based upon ECMS's review of the April 6 2022, NYSDEC Letter, ECMS will draft a workplan within 30 days of this PRR submittal which will adhere to established requirements for conducting sampling and evaluation of the site in the Fall 2022 heating season.

6.0 REFERENCES

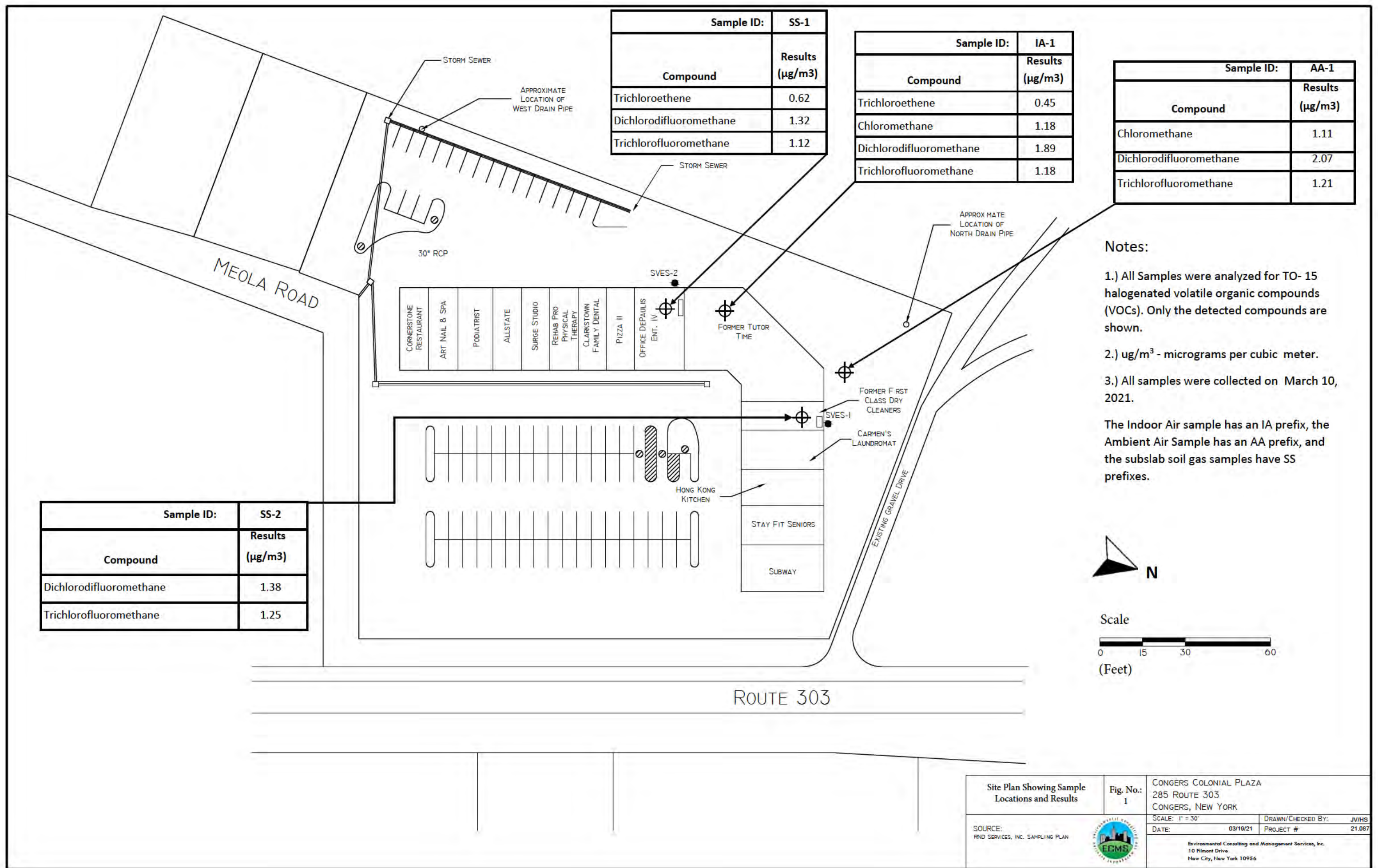
1. New York State Department of Environmental Conservation. Division of Environmental Remediation. "6 NYCRR PART 375 Environmental Remediation Programs Subparts 375-1 to 375-4 & 375-6", dated December 2006.
2. United States Department of Health and Human Services. Centers for Disease Control and Prevention. The National Institute for Occupational Safety and Health, "NIOSH Pocket Guide to Chemical Hazards", <http://www.cdc.gov/niosh/npg/npg.html>, September 2007.
3. New York State Department of Environmental Conservation, Division of Environmental Remediation, DER-10 Technical Guidance for Site Investigation and Remediation, dated May 3, 2010.
4. New York State Department of Environmental Conservation, Division of Environmental Remediation, Final Commissioner's Policy CP-51: Soil Cleanup Guidance, dated October 21, 2010.
5. New York State Department of Health. 2005. "Indoor Air Sampling and Analysis Guidance." February 1, 2005. Available on the NYSDOH's web site at <http://www.health.state.ny.us/nysdoh/indoor/guidance.htm>. Revised May 2017.

ATTACHMENTS



FIGURES





TABLES



Table 1
Summary of Subslab Soil Gas, Ambient Air, and Indoor Air Sampling Analytical Results
285 Route 303, Congers, New York

Lab ID No. Sample Date Location Sample Type	CH77085 3/10/2021 IA-1 Indoor Air		CH77086 3/10/2021 SS-1 Subslab Soil Gas		Recommendations Based on New York State Department of Health (NYSDOH) Matrices A - C (2017) for Subslab Soil Vapor and Indoor Air	CH77087 3/10/2021 SS-2 Subslab Soil Gas		CH77088 3/10/2021 AA-1 Ambient Air	
	Result	RL	Result	RL		Result	RL	Result	RL
	Halogenated Volatile Organic Compounds by TO15, with NYSDOH Matrices								
1,1,1-Trichloroethane	ND	1.09	ND	1.09	1. No Further Action	ND	1.09	ND	1.09
1,1-Dichloroethene	ND	0.79	ND	0.79	1. No Further Action	ND	0.79	ND	0.79
Carbon Tetrachloride	ND	0.54	ND	0.54	1. No Further Action	ND	0.54	ND	0.54
Cis-1,2-Dichloroethene	ND	0.79	ND	0.79	1. No Further Action	ND	0.79	ND	0.79
Methylene Chloride	ND	1.74	ND	1.74	1. No Further Action	ND	1.74	ND	1.74
Tetrachloroethene	ND	1.36	ND	1.36	1. No Further Action	ND	1.36	ND	1.36
Trichloroethene	0.45	0.40	0.62	0.40	2. No Further Action	ND	0.40	ND	0.40
Vinyl Chloride	ND	0.26	ND	0.26	1. No Further Action	ND	0.26	ND	0.26
Halogenated Volatile Organic Compounds by TO15, with no NYSDOH Matrices									
1,1,1,2-Tetrachloroethane	ND	1.37	ND	1.37	Not Applicable	ND	1.37	ND	1.37
1,1,2,2-Tetrachloroethane	ND	0.14	ND	0.14	Not Applicable	ND	0.14	ND	0.14
1,1,2-Trichloroethane	ND	0.15	ND	0.15	Not Applicable	ND	0.15	ND	0.15
1,1-Dichloroethane	ND	0.81	ND	0.81	Not Applicable	ND	0.81	ND	0.81
1,2-Dibromoethane(EDB)	ND	0.15	ND	0.15	Not Applicable	ND	0.15	ND	0.15
1,2-Dichlorobenzene	ND	0.60	ND	0.60	Not Applicable	ND	0.60	ND	0.60
1,2-Dichloroethane	ND	0.09	ND	0.09	Not Applicable	ND	0.09	ND	0.09
1,2-dichloropropane	ND	0.12	ND	0.12	Not Applicable	ND	0.12	ND	0.12
1,3-Dichlorobenzene	ND	0.60	ND	0.60	Not Applicable	ND	0.60	ND	0.60
1,4-Dichlorobenzene	ND	0.48	ND	0.48	Not Applicable	ND	0.48	ND	0.48
Bromodichloromethane	ND	0.13	ND	0.13	Not Applicable	ND	0.13	ND	0.13
Bromoform	ND	2.07	ND	2.07	Not Applicable	ND	2.07	ND	2.07
Bromomethane	ND	0.58	ND	0.58	Not Applicable	ND	0.58	ND	0.58
Chlorobenzene	ND	0.92	ND	0.92	Not Applicable	ND	0.92	ND	0.92
Chloroethane	ND	0.53	ND	0.53	Not Applicable	ND	0.53	ND	0.53
Chloroform	ND	0.98	ND	0.98	Not Applicable	ND	0.98	ND	0.98
Chloromethane	1.18	0.41	ND	0.41	Not Applicable	ND	0.41	1.11	0.41
cis-1,3-Dichloropropene	ND	0.91	ND	0.91	Not Applicable	ND	0.91	ND	0.91
Dibromochloromethane	ND	0.17	ND	0.17	Not Applicable	ND	0.17	ND	0.17
Dichlorodifluoromethane	1.89	0.99	1.32	0.99	Not Applicable	1.38	0.99	2.07	0.99
Trans-1,2-Dichloroethene	ND	0.79	ND	0.79	Not Applicable	ND	0.79	ND	0.79
trans-1,3-Dichloropropene	ND	0.91	ND	0.91	Not Applicable	ND	0.91	ND	0.91
Trichlorofluoromethane	1.18	1.12	1.12	1.12	Not Applicable	1.25	1.12	1.21	1.12
Trichlorotrifluoroethane	ND	1.53	ND	1.53	Not Applicable	ND	1.53	ND	1.53

Notes and Abbreviations:

Qual - Laboratory Data Qualifier

RL - Reporting Limit

NS - No Standard

ND - Not Detected

ug/m³ - Micrograms per Cubic Meter

NA - Not Analyzed

1) Helium was the tracer gas used to verify the seal at temporary sub slab soil gas sampling locations.

2) Except for the helium concentration, all results, detection limits, and standards are reported in units of micrograms per cubic meter (ug/m³). Helium data are reported in percent (%).

3) Analytical results above the Lowest Screening Levels for the New York State Department of health May 2017 Vapor Intrusion Matrix Values are provided in bold font and shaded cells.

4) The color code is as follows:

	NYSDOH Matrix A
	NYSDOH Matrix B
	NYSDOH Matrix C

Table 2
HISTORIC PCE CONCENTRATIONS: SOIL VAPOR, INDOOR AIR, OUTDOOR AIR
Congers Colonial Plaza
285 Route 303
Congers, New York

Sample Identification		12/7/2000	12/18/2000	12/26/2000	1/1/2001	1/11/2001	1/18/2001	3/16/2001	4/11/2001	5/14/2001	6/16/2001	7/16/2001	10/29/2001	11/29/2001	12/3/2001	4/30/2002	7/22/2002	11/11/2002	2/4/2003	11/30/2003*	4/8/2003**	6/7/2004	11/27/2004	11/27-28/2005*	8/25/2009	3/25/2010	12/6/2010	8/1/2018*	6/25/2020	3/10/2021	
First Floor Indoor Air																															
Laundry Station Laundromat	Laundromat IA-1	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	13	4.2	ND	~	~	~	~	~	~	
Hong Kong Kitchen	IA-2	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	1.6	ND	~	~	~	~	~	~	
Stav Fit Seniors	IA-3	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	ND	ND	~	~	~	~	~	~	
First Class Dry Cleaner	Up Dry IA-5	1.435	0.9	~	~	0.14	0.016	0.05	41	66	~	~	~	~	~	~	~	~	~	~	~	~	13	~	8.1	~	~	~	~	~	
Tutor Time	IA-6	~	~	~	~	~	~	0.008	33	14	16	6	5.8	<2.1	<2.1	4	<2.0	<2.1	<2.1	118	86	5.2	7.7	~	~	ND	~	~	~	~	
Depaulis IV	Depaulis IV	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	4.2	~	~	~	~	~	~	~	~	
Basement Indoor Air																															
Tutor Time	IA-4, IA-204, IA-1	~	~	~	~	~	~	0.012	46	4	32	13	7.3	<2.1	<2.1	4.7	9.5	2.8	<2.1	87	46	12	27	~	8.1	2.1	ND	~	ND	ND	
First Class Dry Cleaner	Down Dry, IA-5*, IA-205	1.726	1.3	~	~	0.11	0.012	0.07	234	101	~	~	~	~	~	~	~	~	~	~	~	~	21	~	~	ND	~	~	~	~	
Depaulis IV	Garage	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	3.1	~	~	~	~	~	~	ND	~	
Sub-Slab Soil Vapor																															
Laundry Station Laundromat	SS-1, S-101	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	17	1.7	~	10	~	~	~	~	
Hong Kong Kitchen	SS-2	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	5	1.8	~	~	~	~	~	~	
Stav Fit Seniors	SS-3	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	24	1.9	~	~	~	~	~	~	
Tutor Time	SS Toddler A, SS-4, SS-	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	140	~	~	ND	950	~	~	~	~	
First Class Dry Cleaners	SS-5, SS-102, SS-2	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	3.1	10,000	~	~	ND	
Depaulis IV	SS-VES2F, SS-1	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	3.2	~	~	~	~	~	~	~	ND
VFS-1 Exhaust	SS-VES1G	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	32	~	~	~	~	~	~	~	~
VFS-2 Exhaust	SS-VES2G	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	0.69	~	~	~	~	~	~	~	~	~
Ambient Air																															
VFS-1 Exhaust	AA-1	<0.06	~	~	~	~	~	<0.00	<2	~	19	20	2.9	<2.1	<2.1	<2.0	<2.1	<2.4	~	2	78	7.9	6.8	~	ND	ND	ND	~	~	~	~
VFS-2 Exhaust	AA-2	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~
Outside Tutor Time	Background AA-1	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	~	ND	~	~	~	~	~	~	~	~	ND

^ - Please note that the indoor air sample collected from the basement of the former First Class Dry Cleaner was mistakenly identified by the identical sample name as the first floor, IA-5, on the chain of custody. In order to distinguish the results, the basement sample is identified herein as IA-5^.

Sample results in µg/m³

ND - Not detected at laboratory MDL

~ - Not sampled on this date

* - Samples collected with VES-1 and VES-2 turned off

** - Elevated results attributed to clogged filter; filters changed and locations resampled on June 7, 2004

APPENDICES



APPENDIX A

INSTITUTIONAL AND ENGINEERING CONTROLS CERTIFICATION FORM





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



Site Details

Box 1

Site No. V00456

Site Name Congers Colonial Plaza

Site Address: 285 Route 303 Zip Code: 10920-
City/Town: Congers
County: Rockland
Site Acreage: 2.797

Reporting Period: April 01, 2021 to May 01, 2022

	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? Restricted-Residential, 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

6/27/22

Date

Description of Institutional ControlsParcelOwnerInstitutional Control**35.19-2-11**

285 Route 303, LLC and 119 Route 46, LLC

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

The owner of the property shall prohibit the property from ever being used for purposes other than for restricted residential, commercial or industrial use without the express written waiver of such prohibition by the Department or Relevant Agency.

The owner of the property shall prohibit the use of the groundwater underlying the property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Department or Relevant Agency.

The owner of the property shall provide a periodic certification, prepared and submitted by a professional engineer or environmental professional acceptable to the Department or Relevant Agency, which will certify that the institutional and engineering controls put in place are unchanged from the previous certification, comply with the SMP, and have not been impaired.

Box 4**Description of Engineering Controls**ParcelEngineering Control**35.19-2-11**Vapor Mitigation
Cover Systemsoil vapor extraction (SVE) Systems
Cover System

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

X

☐

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

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

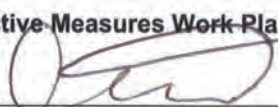
YES NO

X

☐

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

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


Signature of Owner, Remedial Party or Designated Representative

6/27/22
Date

IC CERTIFICATIONS
SITE NO. V00456

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 Charles Collishaw at 529 Route 303, Orangeburg, NY 10962,
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.


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

6/27/22
Date

EC CERTIFICATIONS

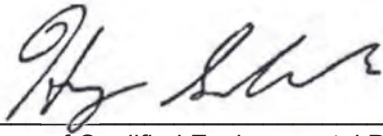
Box 7

Qualified Environmental Professional 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 Harry Sudwischer at 10 Filmont Drive New City, New York 10956,
print name print business address

am certifying as a Qualified Environmental Professional for the Owner
(Owner or Remedial Party)



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

Stamp
(Required for PE)

6/27/22

Date

APPENDIX B
GENERAL SITE-WIDE INSPECTION CHECKLIST



General Site-Wide Inspection Checklist

Date of Inspection: 3/29/22

Inspector Name: Harry Sudwischer

Inspector Company: ECMS, Inc.

Inspector Position: Director of Remediation and Spills

Site Name: Congers Colonial Plaza

Site Address: 285 Route 303, Congers, NY

Yes No NA

1.0 Is all PVC piping in good condition with no breaks, cracks or leaks?

Y

2.0 Are openings around the suction point piping penetrations of the slab properly sealed?

Y

3.0 Are accessible openings around utility penetrations of the foundation walls and slab, test holes, wells and other openings in slabs properly sealed?

Y

4.0 Are openings/ cracks sealed where the slab meets the foundation wall (if appropriate)?

Y

5.0 Is there adequate access to service the fan and other electrical services?

Y

6.0 Is there a sump pit in the basement?

Y

	Yes	No	NA
6.1 Is the sump pit installed with a sealed impermeable cover?	Y		
6.2 Are the penetrations through the cover sealed?	Y		
6.3 Does the cover have a clear view port to permit observations of conditions in the sump pit?			N/A
7.0 Does each suction point have a mechanism to measure vacuum?	Y		
7.1 Is the pressure reading from the latest commissioning clearly marked on the vent pipe? According to ECMS VelociCalc Plus Model 8360 on 3/29/22 SVES-1 (Dry Cleaners) 4-inch Exhaust: 0.65 in H2O SVES-2 (Flipside) 2-inch Exhaust 4.95 in H2O		N	
7.2 Are the current diagnostic measurements within a 20% difference as compared to the system commissioning (baseline) values? Will compare on following inspections	Y		
8.0 Does the mitigation system include an operational audible alarm to inform occupants of a system malfunction?		N	
9.0 Is the exterior PVC piping in good condition with no breaks, cracks or leaks?	Y		

10.0 Is the fan functioning properly?

Y

N

Y

N

Y

N

Enclosed an Ebay invoice for a replacement blower invoice.

17.0 Site Sketch (if applicable)

See attached.

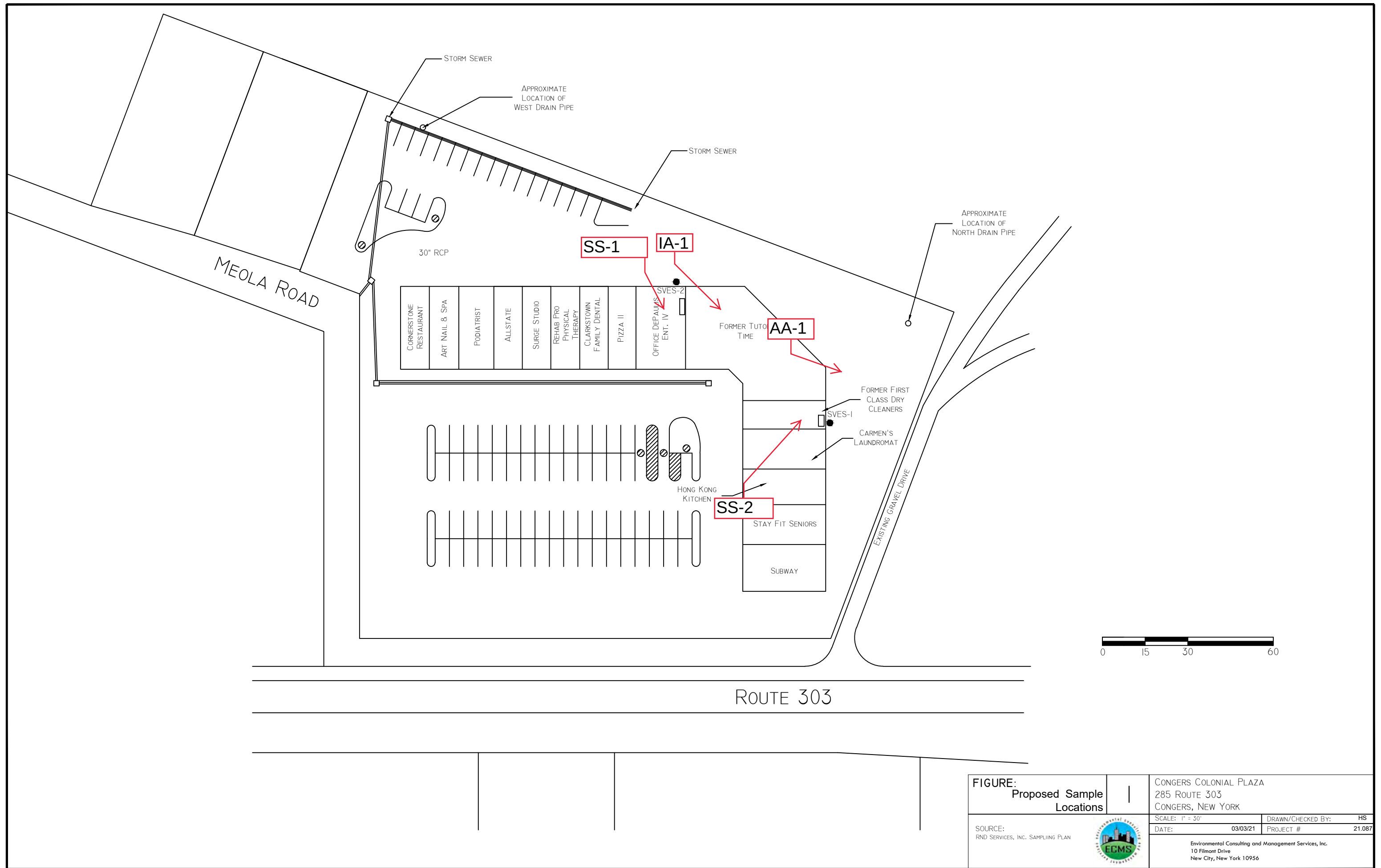


FIGURE: Proposed Sample Locations			CONGERS COLONIAL PLAZA 285 ROUTE 303 CONGERS, NEW YORK		
SOURCE: RND SERVICES, INC. SAMPLING PLAN			SCALE: 1" = 30'		DRAWN/CHECKED BY: HS
		DATE: 03/03/21		PROJECT # 21.087	
		Environmental Consulting and Management Services, Inc. 10 Filmont Drive New City, New York 10956			



Order information

Buyer cacdean
Seller sccmachinery
Placed on Mar 21, 2022
Payment method Credit Card
Paid on Mar 21, 2022

Shipping address

Charles Collishaw
529 Route 303
Orangeburg, New York 10962-1303
United States

Order total

1 item	\$1,500.00
Shipping	\$179.33
Tax	\$140.64
Order total	\$1,819.97

Items bought from sccmachinery

Order number: 14-08410-50816

Qty	Item name	Shipping service	Item price
1	Ametek Regenerative Blower Vacuum Pump Model DR757D89X PN 081169 (294442982711)	Flat Rate Freight	\$1,500.00

APPENDIX C

APRIL 6, 2022 NYSDEC/ NYSDOH LETTER



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau C
625 Broadway, 12th Floor, Albany, NY 12233-7014
P: (518) 402-9662 | F: (518) 402-9679
www.dec.ny.gov

April 6, 2022

Transmitted Via E-mail ONLY

Harry Sudwischer
Environmental Consulting and Management Services, Inc.
10 Filmont Drive
New City, New York 10956
harrys@ecmsny.com

RE: Proposed Sub-slab and Indoor Air Sampling
Congers Colonial Plaza, Site No. V00456
Congers, Rockland County

Dear Mr. Sudwischer,

The New York State Departments of Environmental Conservation and Health (Departments) have reviewed your November 12, 2021 email to me proposing sub-slab and indoor air sampling at the subject site prior to reducing the frequency of site inspections and possibly modifying the soil vapor extraction (SVE) systems. To provide a clearer understanding of current site conditions prior to making these modifications to the site management plan and SVE systems, the Departments request a letter work plan that would include, at a minimum, the following:

1. Shut the SVE system off for a minimum of 30 days during the current heating season.
2. Collect co-located sub-slab vapor and indoor air samples from the basements of the Former First Class Dry Cleaners tenant space, Former Tutor Time tenant space, and the former law office (Depaulis label). Assume a minimum of an 8-hour sample or modify this duration to match the operating hours of the child care facility. Collect one outdoor air sample as part of this sampling effort.
3. Collect an additional indoor air sample from all occupied first floor tenant spaces referenced in comment #2. Of the 3 tenant spaces listed above, recent discussions indicated the new child care tenant space was the only space that was currently occupied. Please confirm whether any tenants have begun occupying the other two referenced tenant spaces.

4. To confirm the PCE contamination at the site is concentrated under the SVE system in the former dry cleaners and is not mobile, the NYSDEC requests that a provision be provided to inspect all groundwater sampling points used in past investigations, such as monitoring wells, the sump under the dry cleaner, and drainage pipes along the western edge of the building, to help in deciding where groundwater sampling is practical and needed.

As part of the work plan, please also include a summary of historic sub-slab vapor/indoor air data and indicate the conditions in which the samples were collected (e.g., SVE system either running or turned off). In addition, please include in the work plan any available supporting documentation that demonstrates the effectiveness of the operating SVE systems, (e.g., frequency of carbon change outs, total mass removal of subsurface contaminants, etc.).

Following the approval and implementation of the work plan, the Departments will review the data and discuss the next steps for any additional air monitoring during the Fall 2022 heating season and/or consider the potential decommissioning of the site's SVE systems. Should you have any questions, please contact me at michael.squire@dec.ny.gov or at 518-402-9546.

Sincerely,



Michael Squire
Project Manager
Remedial Bureau C

cc: Amen Omorogbe, NYSDEC (amen.omorogbe@dec.ny.gov)
Janet Brown, NYSDEC (janet.brown@dec.ny.gov)
Mark Sergott, NYSDOH, (mark.sergott@health.ny.gov)
Maureen Schuck, NYSDOH, (maureen.schuck@health.ny.gov)
Charles Collishaw, (cacdean@aol.com)

D2

APPENDIX D

2021 & 2022 NYSDOH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY



ECMS
March 4, 2021 NYSDOH INDOOR AIR QUALITY QUESTIONNAIRE
AND BUILDING INVENTORY

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Harry Sudwischer Date/Time Prepared 3/4/21

Preparer's Affiliation ECMS, Inc. Phone No. 203-241-1030

Purpose of Investigation Pursuant to the SMP a SVI was conducted as part of PRR

1. OCCUPANT:

Interviewed: Y ☒ N

The former First Class Dry Cleaners and Flipside Entertainment storage space were not occupied during inspection. The Lil Genies Day Care operated in the former Tudor Time Nursery School space. However the daycare was not using the basement space. The basement space was under construction due to water line leak.

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ____)

Interviewed: Y ☒ N

Last Name: Collinshaw First Name: Charles

Address: 285 Route 303, Congers, NY

County: Rockland

Home Phone: _____ Office Phone: 845-671-0607

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

☒ Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 15 approx

If the property is commercial, type?

Business Type(s) Commercial Shopping Center

Does it include residences (i.e., multi-use)? Y ☒ N ☐ If yes, how many? _____

Other characteristics:

Number of floors 2

Building age 30+ years

Is the building insulated? ☒ Y / N ☐

How air tight? Tight ☒ Average ☐ Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Stairwells and HVAC systems.

Airflow near source

From exterior doorway and stairwell doorway into Former First Class Dry Cleaners
basement space. Negative pressure is drawing air under exterior door and stairwell doorway
into basement.

Outdoor air infiltration

Doors, garage doors, windows and subsurface utilities

Infiltration into air ducts

none observed

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame ☒ concrete stone brick
- b. Basement type: ☒ full crawlspace ☒ slab other _____
- c. Basement floor: ☒ concrete dirt stone other _____
- d. Basement floor: ☒ uncovered covered covered with tile in tudor time
- e. Concrete floor: ☒ unsealed sealed sealed with _____
- f. Foundation walls: ☒ poured block stone other _____
- g. Foundation walls: ☒ unsealed sealed sealed with _____
- h. The basement is: wet ☒ damp dry moldy
- i. The basement is: finished unfinished ☒ partially finished
- j. Sump present? ☒ Y / N
- k. Water in sump? Y / N ☒ not applicable

Basement/Lowest level depth below grade: 10-15 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Hairline Cracks in basement slab in former dry cleaners and flipside entertainment space. In former Tudor Time space floor drains were observed in floor.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

☒ Hot air circulation
Space Heaters
Electric baseboard

Heat pump
Stream radiation
Wood stove

Hot water baseboard
Radiant floor
Outdoor wood boiler Other _____

The primary type of fuel used is:

☒ Natural Gas
Electric
Wood

Fuel Oil
Propane
Coal

Kerosene
Solar

Domestic hot water tank fueled by: _____

Boiler/furnace located in: ☒ Basement Outdoors ☒ Main Floor Other _____

Air conditioning: ☒ Central Air Window units Open Windows None

Are there air distribution ducts present? ☒ Y ☐ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Unknown

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally ☒ Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement Flipside, Storage. Tudor Time, unoccupied except for construction activities and equipment storage. Former Dry cleaners, currently vacant but used for storage.

1st Floor Office Space above Flipside, Former Tudor Time is Lil Genies Daycare, Former Dry Cleaners, Currently Vacant

2nd Floor

3rd Floor

4th Floor

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

☒ Y ☐ N

b. Does the garage have a separate heating unit?

Y ☒ N NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

☒ Y / N / NA
Please specify Van

d. Has the building ever had a fire?

Y ☒ N When?

e. Is a kerosene or unvented gas space heater present?

Y ☒ N Where?

f. Is there a workshop or hobby/craft area?

Y ☒ N Where & Type?

g. Is there smoking in the building?

Y ☒ N How frequently?

h. Have cleaning products been used recently?

Y ☒ N When & Type?

i. Have cosmetic products been used recently?

Y ☒ N When & Type?

- j. Has painting/staining been done in the last 6 months? ☒ Y ☐ N Where & When? Tudor Time, basement (one month)
Outside under awnings (one day)
- k. Is there new carpet, drapes or other textiles? Y ☒ N Where & When? _____
- l. Have air fresheners been used recently? Y ☒ N When & Type? _____
- m. Is there a kitchen exhaust fan? Y ☒ N If yes, where vented? _____
- n. Is there a bathroom exhaust fan? ☒ Y ☐ N If yes, where vented? _____
- o. Is there a clothes dryer? Y ☒ N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y ☒ N When & Type? _____
- Are there odors in the building? Y ☒ N
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y ☒ N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) ☒ No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y ☒ N Date of Installation: Two active SSDS systems
are active but not for radon
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water ☒ Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

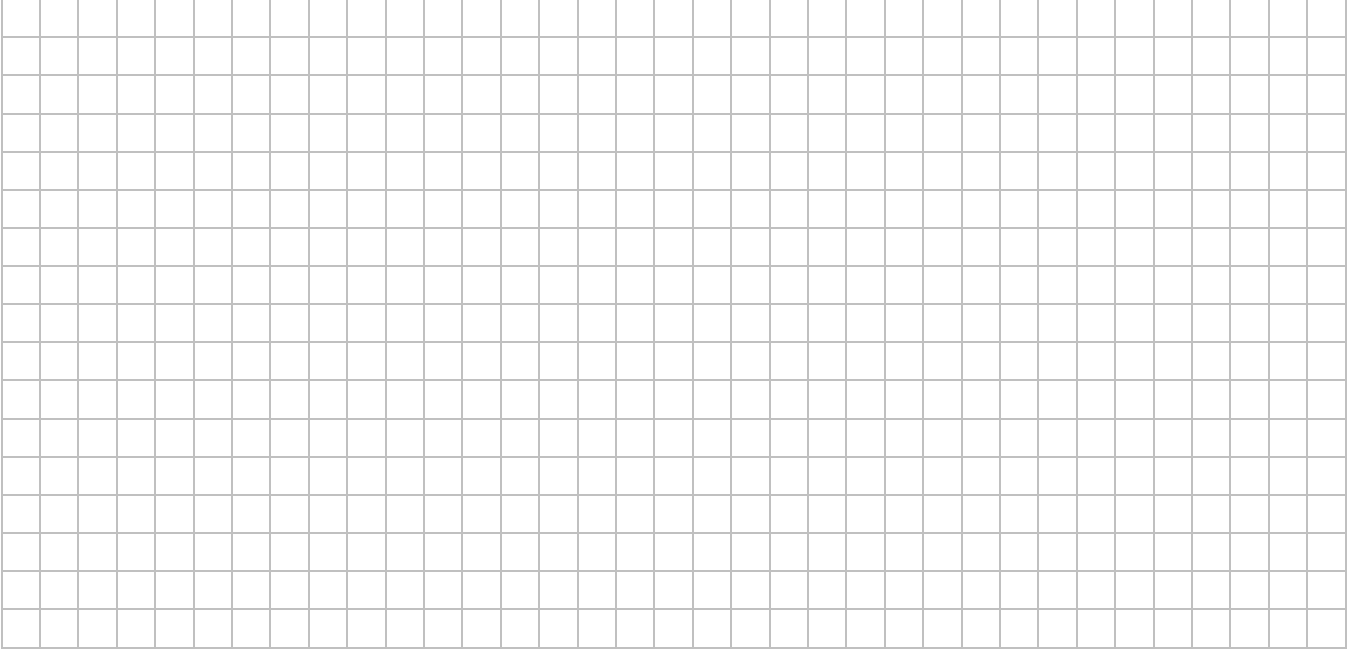
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

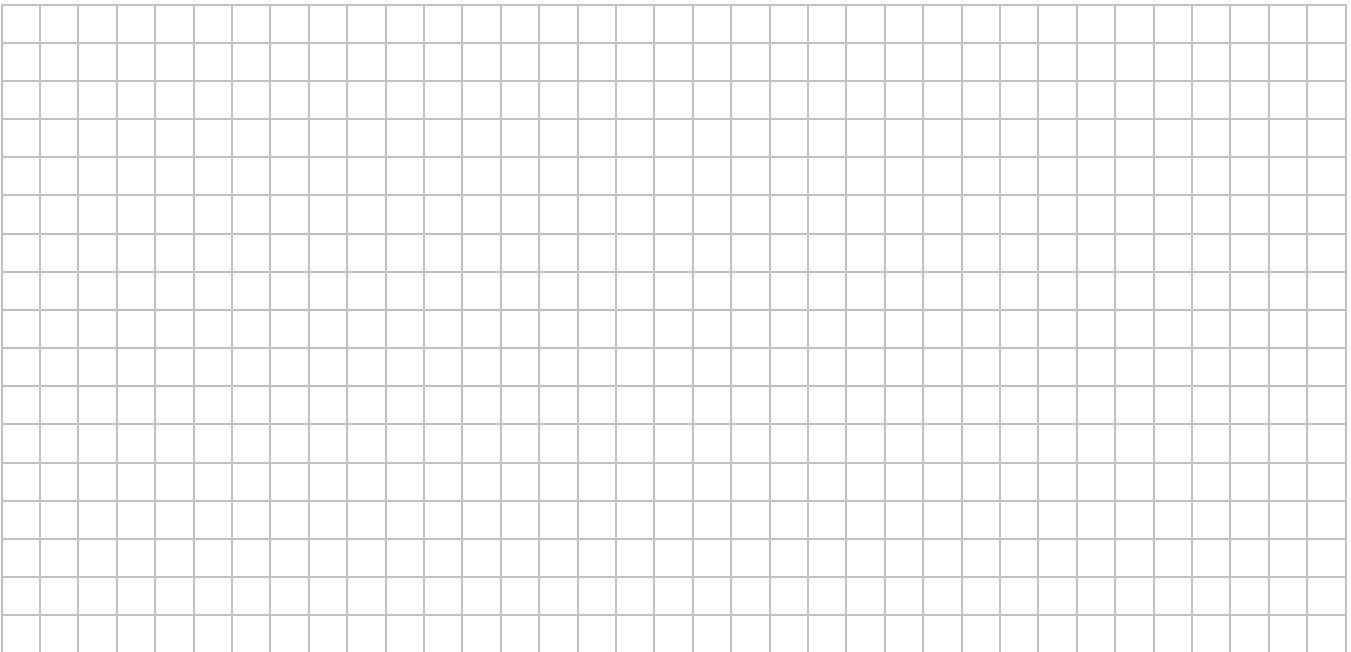
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: See attached figures



First Floor: See attached figures

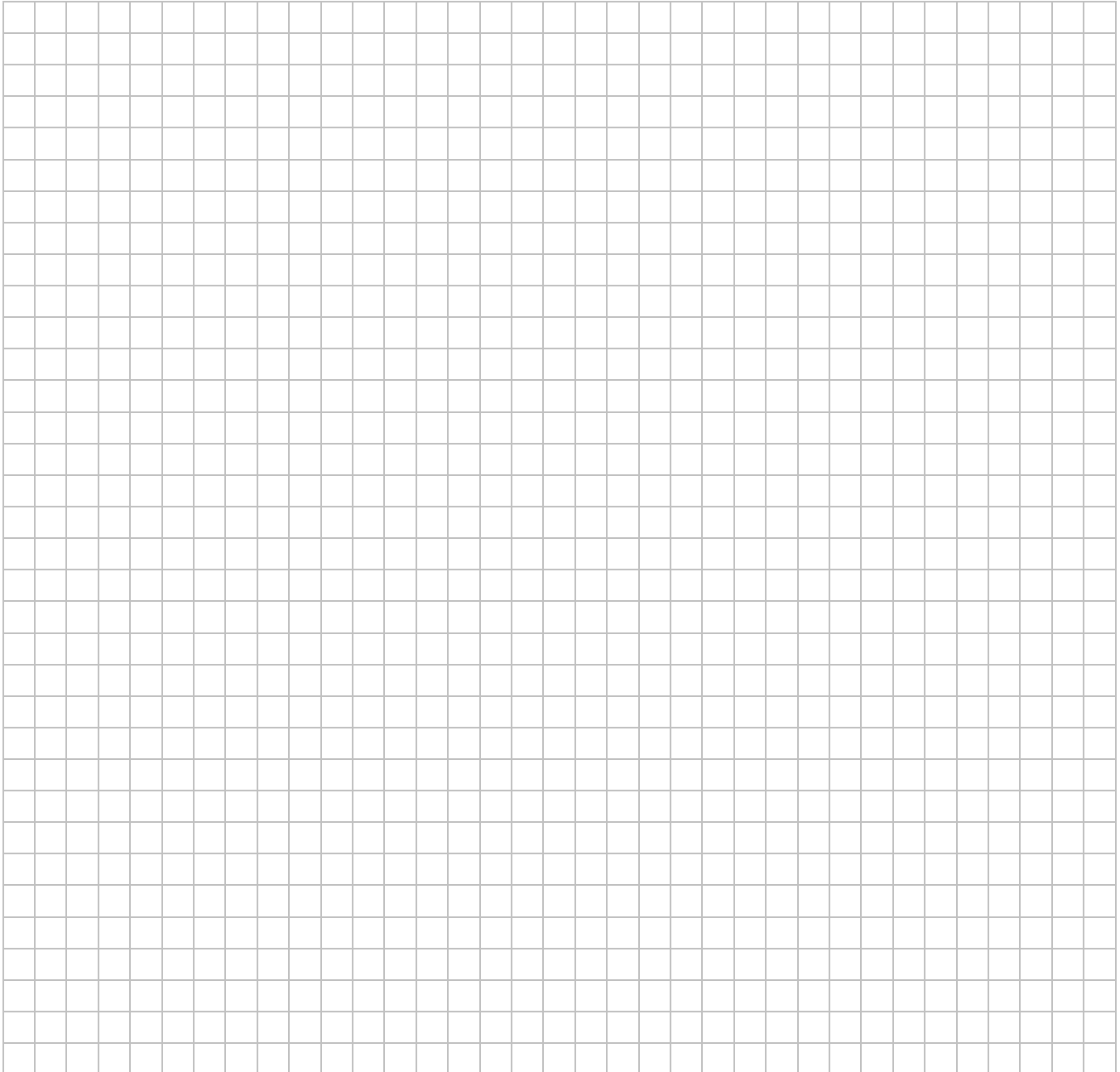


12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See attached figures



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rae 3000 Lite

List specific products found in the residence that have the potential to affect indoor air quality.

[illegible]

* 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.**

ECMS
March 29, 2022 NYSDOH INDOOR AIR QUALITY QUESTIONNAIRE
AND BUILDING INVENTORY

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Harry Sudwischer Date/Time Prepared 3/4/22

Preparer's Affiliation ECMS, Inc. Phone No. 203-241-1030

Purpose of Investigation Pursuant to the SMP, ECMS evaluated the building for indoor air quality issues.

1. OCCUPANT: The former First Class Dry Cleaners and Flipside Entertainment storage space were occupied during inspection. The Lil Genies Day Care operated in the former Tudor Time Nursery School space. However the daycare was not using the basement space.

Interviewed: Y ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ____)

Interviewed: Y ☒ N

Last Name: Collinshaw First Name: Charles

Address: 285 Route 303, Congers, NY

County: Rockland

Home Phone: _____ Office Phone: 845-671-0607

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

☒ Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 15 approx

If the property is commercial, type?

Business Type(s) Commercial Shopping Center

Does it include residences (i.e., multi-use)? Y ☒ N ☐ If yes, how many? _____

Other characteristics:

Number of floors 2

Building age 30+ years

Is the building insulated? ☒ Y / N ☐

How air tight? Tight ☒ Average ☐ Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

Stairwells and HVAC systems.

Airflow near source

From exterior doorway and stairwell doorway into Former First Class Dry Cleaners
basement space. Negative pressure is drawing air under exterior door and stairwell doorway
into basement.

Outdoor air infiltration

Doors, garage doors, windows and subsurface utilities

Infiltration into air ducts

none observed

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame ☒ concrete stone brick
- b. Basement type: ☒ full crawlspace ☒ slab other _____
- c. Basement floor: ☒ concrete dirt stone other _____
- d. Basement floor: ☒ uncovered covered covered with tile in tudor time
- e. Concrete floor: ☒ unsealed sealed sealed with _____
- f. Foundation walls: ☒ poured block stone other _____
- g. Foundation walls: ☒ unsealed sealed sealed with _____
- h. The basement is: wet ☒ damp dry moldy
- i. The basement is: finished unfinished ☒ partially finished
- j. Sump present? ☒ Y / N
- k. Water in sump? Y / N ☒ not applicable

Basement/Lowest level depth below grade: 10-15 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Hairline Cracks in basement slab in former dry cleaners and flipside entertainment space. In former Tudor Time space floor drains were observed in floor.

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

☒ Hot air circulation
Space Heaters
Electric baseboard

Heat pump
Stream radiation
Wood stove

Hot water baseboard
Radiant floor
Outdoor wood boiler Other _____

The primary type of fuel used is:

☒ Natural Gas
Electric
Wood

Fuel Oil
Propane
Coal

Kerosene
Solar

Domestic hot water tank fueled by: _____

Boiler/furnace located in: ☒ Basement Outdoors ☒ Main Floor Other _____

Air conditioning: ☒ Central Air Window units Open Windows None

Are there air distribution ducts present? ☒ Y ☐ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Unknown

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally ☒ Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement	Flipside, Storage. Tudor Time, unoccupied except for construction activities and equipment storage. Former Dry cleaners, currently used for storage.
1 st Floor	Hair dresser above Flipside garage, Former Tudor Time is Lil Genies Daycare, Building owner is using Former First Class dry cleaners first floor space as office space
2 nd Floor	
3 rd Floor	
4 th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

☒ Y ☐ N

b. Does the garage have a separate heating unit?

Y ☒ N NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car)

☒ Y / N / NA
Please specify Van

d. Has the building ever had a fire?

Y ☒ N When?

e. Is a kerosene or unvented gas space heater present?

Y ☒ N Where?

f. Is there a workshop or hobby/craft area?

Y ☒ N Where & Type?

g. Is there smoking in the building?

Y ☒ N How frequently?

h. Have cleaning products been used recently?

Y ☒ N When & Type?

i. Have cosmetic products been used recently?

Y ☒ N When & Type?

- j. Has painting/staining been done in the last 6 months? Y ☒ N Where & When? _____
- k. Is there new carpet, drapes or other textiles? Y ☒ N Where & When? _____
- l. Have air fresheners been used recently? Y ☒ N When & Type? _____
- m. Is there a kitchen exhaust fan? Y ☒ N If yes, where vented? _____
- n. Is there a bathroom exhaust fan? ☒ Y N If yes, where vented? outside
- o. Is there a clothes dryer? Y ☒ N If yes, is it vented outside? Y / N
- p. Has there been a pesticide application? Y ☒ N When & Type? _____
- Are there odors in the building? Y ☒ N
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y ☒ N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) ☒ No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y ☒ N Date of Installation: Two active SVE systems are active but not for radon
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

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10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

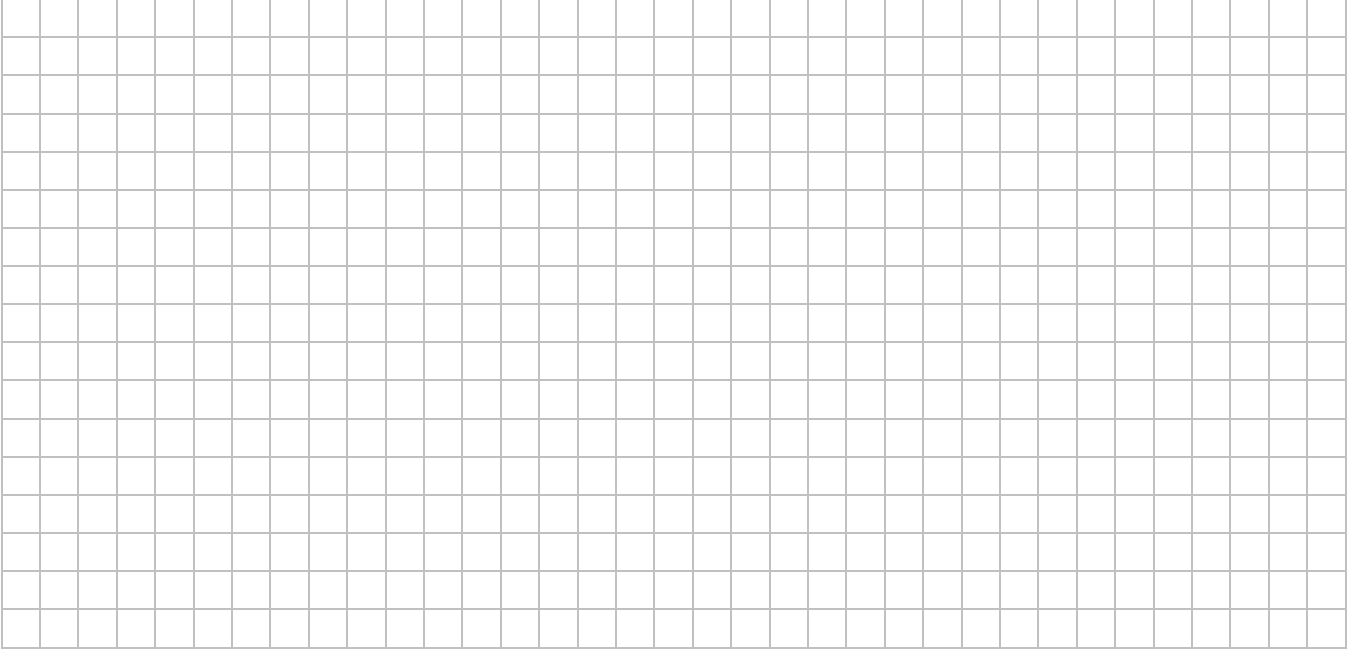
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

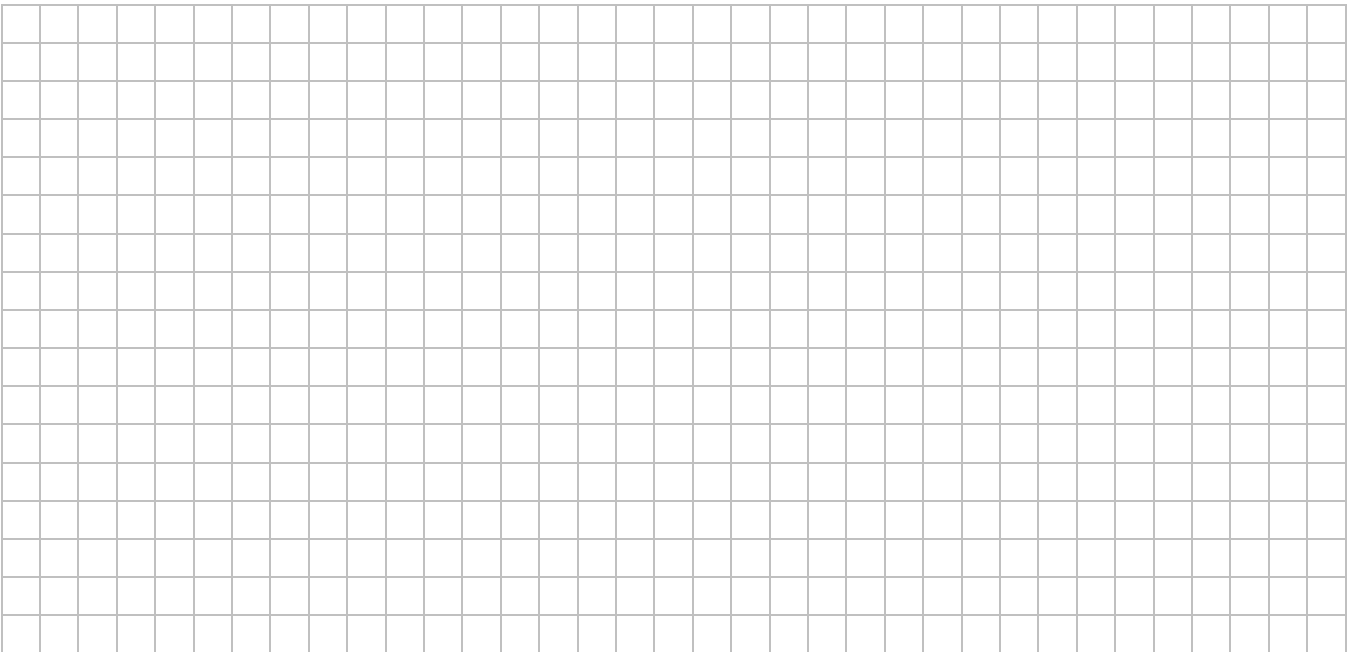
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First Floor: See attached figures

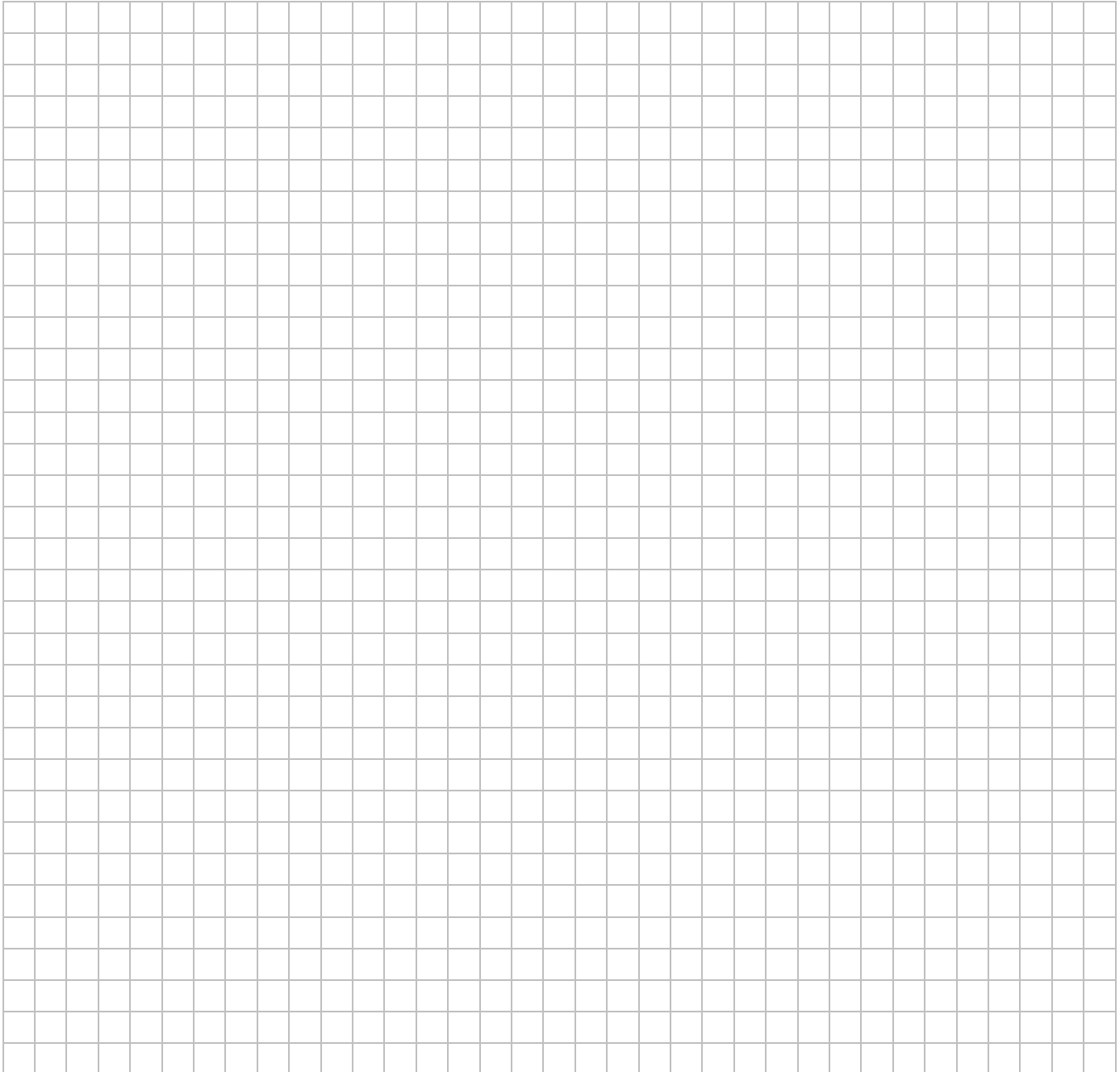


12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See attached figures



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rae 3000 Lite

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition *	Chemical Ingredients	Field Instrument Reading (units)	Photo ** <u>Y / N</u>
Dry cleaners	The tenant space was vacant	no chemicals were observed	in vacant tenant space. A sub slab air sample was collected in the space.			
Former Tudor	time tenant space. Partially occupied by Lil Genies Daycare in the upstairs portion. Storgae in basement.					
Flipside Entertainment Storage Space. The space was used for storage of equipment and the parking of a gasoline powered van. Other than the van no other chemicals were observed.						

* 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.

APPENDIX E
CATEGORY B DATA DELIVERABLES





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

ECMS, Inc

GCH77085

Ver 1

Data Package Table of Contents

GCH77085 Analytical Report	4
Cover Letter	4
Project Summary	5
Sample Id Cross Reference	8
Analytical Report	9
Canister Sampling Information	17
QA/QC Report	18
Sample Criteria Exceedances Report	20
COC-GCH77085	21
add on Cat B-GCH77085	23
GCH77085 Air V1	25
Organic Flags	26
Non-Conformance Summary	27
Monitoring Compound Recovery (Form 2)	29
CH77086 - Batch 566635	29
CH77271 - Batch 566611	30
Spike Recovery (Form 3)	31
CH77086 LCS	31
CH77271 LCS	32
Method Blank Summary (Form 4)	33
CH77086 BLK - Batch 566635 03/12/21 12:49	33
CH77271 BLK - Batch 566611 03/11/21 17:34	34
Tune Summary (Form 5)	35
CHEM20 - 0308_03.D	35
CHEM20 - 0311_03.D	37
CHEM24 - 0310_02.D	39
CHEM24 - 0312_02.D	41
Internal Standard (Form 8)	43
CHEM20 - 03/09/21 00:21	43
CHEM20 - 03/11/21 15:09	45
CHEM24 - 03/10/21 16:57	47
CHEM24 - 03/12/21 10:50	49
Analysis Data Sheet (Form 1)	51
CH77085 / IA-1	51
CH77086 / SS-1	60

CH77087 / SS-2	66
CH77088 / AA-1	71
Initial Calibration Summary (Form 6)	77
CHEM20	77
CHEM24	79
CHEM20 - 03/08/21	81
CHEM24 - 03/10/21	120
Continuing Calibration Summary (Form 7)	159
CHEM20 - 03/11/21 15:09	159
CHEM24 - 03/12/21 10:50	166
Analysis Data Sheet QC (Form 1)	173
CH77086 LCS	173
CH77086 BLANK	177
CH77086 DUP	180
CH77271 LCS	186
CH77271 QC 0.5X	190
CH77271 BLANK	200
CH77271 DUP	204
Canister Cleaning Batch# 2093	212
Canister Cleaning Batch# 2095	215
Injection Log	218
Injection Log - CHEM20 12/30/99	218
Injection Log - CHEM20 02/17/02	219
Injection Log - CHEM20 03/11/02	220
Injection Log - CHEM24 02/14/02	221
Injection Log - CHEM24 03/10/02	222
Injection Log - CHEM24 03/12/02	223



Friday, March 26, 2021

Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Project ID:
SDG ID: GCH77085
Sample ID#s: CH77085 - CH77088

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
UT Lab Registration #CT00007
VT Lab Registration #VT11301



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



**NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE**

Client: ECMS, Inc
Project:
Laboratory Project: GCH77085



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



NY Analytical Services Protocol Format

March 26, 2021

SDG I.D.: GCH77085

ECMS, Inc

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.



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



NY Analytical Services Protocol Format

March 26, 2021

SDG I.D.: GCH77085

ECMS, Inc

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CH77085	Chlorinated Volatiles (TO15)	03/10/21	03/11/21	03/11/21	KCA	Y
CH77086	Chlorinated Volatiles (TO15)	03/10/21	03/12/21	03/12/21	KCA	Y
CH77087	Chlorinated Volatiles (TO15)	03/10/21	03/12/21	03/12/21	KCA	Y
CH77088	Chlorinated Volatiles (TO15)	03/10/21	03/11/21	03/11/21	KCA	Y



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

March 26, 2021

SDG I.D.: GCH77085

Project ID:

Client Id	Lab Id	Matrix
IA-1	CH77085	AIR
SS-1	CH77086	AIR
SS-2	CH77087	AIR
AA-1	CH77088	AIR



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



Analysis Report

March 26, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 470

Custody Information

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

Date

03/10/21 17:51
03/11/21 16:30

Time

Project ID:
Client ID: IA-1

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77085

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Chlorinated Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.200	0.500	ND	1.37	3.43	03/11/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	0.500	ND	1.09	2.73	03/11/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.020	ND	0.14	0.14	03/11/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	0.027	ND	0.15	0.15	03/11/21	KCA	1
1,1-Dichloroethane	ND	0.200	0.200	ND	0.81	0.81	03/11/21	KCA	1
1,1-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/11/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	0.020	ND	0.15	0.15	03/11/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/11/21	KCA	1
1,2-Dichloroethane	ND	0.022	0.022	ND	0.09	0.09	03/11/21	KCA	1
1,2-dichloropropane	ND	0.027	0.027	ND	0.12	0.12	03/11/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/11/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	0.080	ND	0.48	0.48	03/11/21	KCA	1
Bromodichloromethane	ND	0.020	0.020	ND	0.13	0.13	03/11/21	KCA	1
Bromoform	ND	0.200	0.200	ND	2.07	2.07	03/11/21	KCA	1
Bromomethane	ND	0.150	0.150	ND	0.58	0.58	03/11/21	KCA	1
Carbon Tetrachloride	ND	0.086	0.086	ND	0.54	0.54	03/11/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	03/11/21	KCA	1
Chloroethane	ND	0.200	0.200	ND	0.53	0.53	03/11/21	KCA	1
Chloroform	ND	0.200	0.200	ND	0.98	0.98	03/11/21	KCA	1
Chloromethane	0.570	0.200	0.200	1.18	0.41	0.41	03/11/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/11/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/11/21	KCA	1
Dibromochloromethane	ND	0.020	0.020	ND	0.17	0.17	03/11/21	KCA	1
Dichlorodifluoromethane	0.382	0.200	0.200	1.89	0.99	0.99	03/11/21	KCA	1
Methylene Chloride	ND	0.500	0.500	ND	1.74	1.74	03/11/21	KCA	1
Tetrachloroethene	ND	0.200	0.200	ND	1.36	1.36	03/11/21	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/11/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/11/21	KCA	1
Trichloroethene	0.083	0.075	0.075	0.45	0.40	0.40	03/11/21	KCA	1
Trichlorofluoromethane	0.211	0.200	0.200	1.18	1.12	1.12	03/11/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	0.200	ND	1.53	1.53	03/11/21	KCA	1
Vinyl Chloride	ND	0.100	0.100	ND	0.26	0.26	03/11/21	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	03/11/21	KCA	1
% IS-1,4-Difluorobenzene	91	%	%	91	%	%	03/11/21	KCA	1
% IS-Bromochloromethane	89	%	%	89	%	%	03/11/21	KCA	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	03/11/21	KCA	1

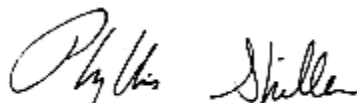
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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:

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Phyllis Shiller, Laboratory Director

March 26, 2021

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

March 26, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 28605

Custody Information

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

Date

03/10/21 17:45
03/11/21 16:30

Time

Project ID:
Client ID: SS-1

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77086

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Chlorinated Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.200	0.500	ND	1.37	3.43	03/12/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	0.500	ND	1.09	2.73	03/12/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.020	ND	0.14	0.14	03/12/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	0.027	ND	0.15	0.15	03/12/21	KCA	1
1,1-Dichloroethane	ND	0.200	0.200	ND	0.81	0.81	03/12/21	KCA	1
1,1-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/12/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	0.020	ND	0.15	0.15	03/12/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/12/21	KCA	1
1,2-Dichloroethane	ND	0.022	0.022	ND	0.09	0.09	03/12/21	KCA	1
1,2-dichloropropane	ND	0.027	0.027	ND	0.12	0.12	03/12/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/12/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	0.080	ND	0.48	0.48	03/12/21	KCA	1
Bromodichloromethane	ND	0.020	0.020	ND	0.13	0.13	03/12/21	KCA	1
Bromoform	ND	0.200	0.200	ND	2.07	2.07	03/12/21	KCA	1
Bromomethane	ND	0.150	0.150	ND	0.58	0.58	03/12/21	KCA	1
Carbon Tetrachloride	ND	0.086	0.086	ND	0.54	0.54	03/12/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	03/12/21	KCA	1
Chloroethane	ND	0.200	0.200	ND	0.53	0.53	03/12/21	KCA	1
Chloroform	ND	0.200	0.200	ND	0.98	0.98	03/12/21	KCA	1
Chloromethane	ND	0.200	0.200	ND	0.41	0.41	03/12/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/12/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/12/21	KCA	1
Dibromochloromethane	ND	0.020	0.020	ND	0.17	0.17	03/12/21	KCA	1
Dichlorodifluoromethane	0.267	0.200	0.200	1.32	0.99	0.99	03/12/21	KCA	1
Methylene Chloride	ND	0.500	0.500	ND	1.74	1.74	03/12/21	KCA	1
Tetrachloroethene	ND	0.200	0.200	ND	1.36	1.36	03/12/21	KCA	1

Project ID:
Client ID: SS-1

Phoenix I.D.: CH77086

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/12/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/12/21	KCA	1
Trichloroethene	0.115	0.075	0.075	0.62	0.40	0.40	03/12/21	KCA	1
Trichlorofluoromethane	0.200	0.200	0.200	1.12	1.12	1.12	03/12/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	0.200	ND	1.53	1.53	03/12/21	KCA	1
Vinyl Chloride	ND	0.100	0.100	ND	0.26	0.26	03/12/21	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	101	%	%	101	%	%	03/12/21	KCA	1
% IS-1,4-Difluorobenzene	101	%	%	101	%	%	03/12/21	KCA	1
% IS-Bromochloromethane	103	%	%	103	%	%	03/12/21	KCA	1
% IS-Chlorobenzene-d5	102	%	%	102	%	%	03/12/21	KCA	1

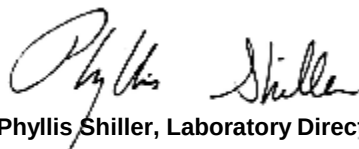
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit

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:

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

March 26, 2021

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

March 26, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 21341

Custody Information

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

Date Time

03/10/21
03/11/21 16:30

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77087

Project ID:
Client ID: SS-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Chlorinated Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.200	0.500	ND	1.37	3.43	03/12/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	0.500	ND	1.09	2.73	03/12/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.020	ND	0.14	0.14	03/12/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	0.027	ND	0.15	0.15	03/12/21	KCA	1
1,1-Dichloroethane	ND	0.200	0.200	ND	0.81	0.81	03/12/21	KCA	1
1,1-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/12/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	0.020	ND	0.15	0.15	03/12/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/12/21	KCA	1
1,2-Dichloroethane	ND	0.022	0.022	ND	0.09	0.09	03/12/21	KCA	1
1,2-dichloropropane	ND	0.027	0.027	ND	0.12	0.12	03/12/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/12/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	0.080	ND	0.48	0.48	03/12/21	KCA	1
Bromodichloromethane	ND	0.020	0.020	ND	0.13	0.13	03/12/21	KCA	1
Bromoform	ND	0.200	0.200	ND	2.07	2.07	03/12/21	KCA	1
Bromomethane	ND	0.150	0.150	ND	0.58	0.58	03/12/21	KCA	1
Carbon Tetrachloride	ND	0.086	0.086	ND	0.54	0.54	03/12/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	03/12/21	KCA	1
Chloroethane	ND	0.200	0.200	ND	0.53	0.53	03/12/21	KCA	1
Chloroform	ND	0.200	0.200	ND	0.98	0.98	03/12/21	KCA	1
Chloromethane	ND	0.200	0.200	ND	0.41	0.41	03/12/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/12/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/12/21	KCA	1
Dibromochloromethane	ND	0.020	0.020	ND	0.17	0.17	03/12/21	KCA	1
Dichlorodifluoromethane	0.280	0.200	0.200	1.38	0.99	0.99	03/12/21	KCA	1
Methylene Chloride	ND	0.500	0.500	ND	1.74	1.74	03/12/21	KCA	1
Tetrachloroethene	ND	0.200	0.200	ND	1.36	1.36	03/12/21	KCA	1

Project ID:
Client ID: SS-2

Phoenix I.D.: CH77087

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79 0.79	03/12/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91 0.91	03/12/21	KCA	1
Trichloroethene	ND	0.075	0.075	ND	0.40 0.40	03/12/21	KCA	1
Trichlorofluoromethane	0.222	0.200	0.200	1.25	1.12 1.12	03/12/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	0.200	ND	1.53 1.53	03/12/21	KCA	1
Vinyl Chloride	ND	0.100	0.100	ND	0.26 0.26	03/12/21	KCA	1
<u>QA/QC Surrogates/Internals</u>								
% Bromofluorobenzene	100	%	%	100	% %	03/12/21	KCA	1
% IS-1,4-Difluorobenzene	101	%	%	101	% %	03/12/21	KCA	1
% IS-Bromochloromethane	101	%	%	101	% %	03/12/21	KCA	1
% IS-Chlorobenzene-d5	101	%	%	101	% %	03/12/21	KCA	1

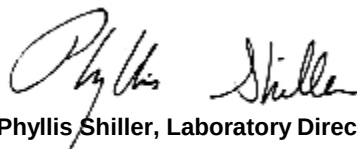
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit

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:

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

March 26, 2021

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

March 26, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 469

Custody Information

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

Date

03/10/21 17:54
03/11/21 16:30

Time

Project ID:
Client ID: AA-1

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77088

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Chlorinated Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.200	0.500	ND	1.37	3.43	03/11/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	0.500	ND	1.09	2.73	03/11/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.020	ND	0.14	0.14	03/11/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	0.027	ND	0.15	0.15	03/11/21	KCA	1
1,1-Dichloroethane	ND	0.200	0.200	ND	0.81	0.81	03/11/21	KCA	1
1,1-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/11/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	0.020	ND	0.15	0.15	03/11/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/11/21	KCA	1
1,2-Dichloroethane	ND	0.022	0.022	ND	0.09	0.09	03/11/21	KCA	1
1,2-dichloropropane	ND	0.027	0.027	ND	0.12	0.12	03/11/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/11/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	0.080	ND	0.48	0.48	03/11/21	KCA	1
Bromodichloromethane	ND	0.020	0.020	ND	0.13	0.13	03/11/21	KCA	1
Bromoform	ND	0.200	0.200	ND	2.07	2.07	03/11/21	KCA	1
Bromomethane	ND	0.150	0.150	ND	0.58	0.58	03/11/21	KCA	1
Carbon Tetrachloride	ND	0.086	0.086	ND	0.54	0.54	03/11/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	03/11/21	KCA	1
Chloroethane	ND	0.200	0.200	ND	0.53	0.53	03/11/21	KCA	1
Chloroform	ND	0.200	0.200	ND	0.98	0.98	03/11/21	KCA	1
Chloromethane	0.540	0.200	0.200	1.11	0.41	0.41	03/11/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/11/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/11/21	KCA	1
Dibromochloromethane	ND	0.020	0.020	ND	0.17	0.17	03/11/21	KCA	1
Dichlorodifluoromethane	0.419	0.200	0.200	2.07	0.99	0.99	03/11/21	KCA	1
Methylene Chloride	ND	0.500	0.500	ND	1.74	1.74	03/11/21	KCA	1
Tetrachloroethene	ND	0.200	0.200	ND	1.36	1.36	03/11/21	KCA	1

Project ID:
Client ID: AA-1

Phoenix I.D.: CH77088

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/11/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/11/21	KCA	1
Trichloroethene	ND	0.075	0.075	ND	0.40	0.40	03/11/21	KCA	1
Trichlorofluoromethane	0.215	0.200	0.200	1.21	1.12	1.12	03/11/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	0.200	ND	1.53	1.53	03/11/21	KCA	1
Vinyl Chloride	ND	0.100	0.100	ND	0.26	0.26	03/11/21	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	03/11/21	KCA	1
% IS-1,4-Difluorobenzene	93	%	%	93	%	%	03/11/21	KCA	1
% IS-Bromochloromethane	92	%	%	92	%	%	03/11/21	KCA	1
% IS-Chlorobenzene-d5	93	%	%	93	%	%	03/11/21	KCA	1

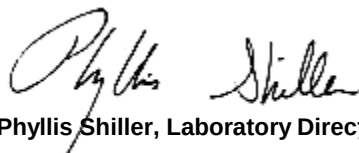
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QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

March 26, 2021

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

March 26, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Location Code: ECMS

SDG I.D.: GCH77085

Project ID:

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
IA-1	CH77085	470	6.0L	4978	03/04/21	-30	-6	21.7	23.6	8.4	-30	-7	03/10/21 13:59	03/10/21 17:51
SS-1	CH77086	28605	6.0L	5404	03/04/21	-30	-5	21.7	21.6	0.5	-30	-6.5	03/10/21 14:04	03/10/21 17:45
SS-2	CH77087	21341	6.0L	5648	03/04/21	-30	-5	21.7	22.6	4.1	-30	-7	03/10/21 14:02	03/10/21 17:51
AA-1	CH77088	469	6.0L	5597	03/04/21	-30	-1	21.7	24	10.1	-29.5	-3.5	03/10/21 14:03	03/10/21 17:54



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



QA/QC Report

March 26, 2021

QA/QC Data

SDG I.D.: GCH77085

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 566635 (ppbv), QC Sample No: CH77086 (CH77086, CH77087)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.200	ND	1.37	103	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.200	ND	1.09	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.14	101	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.027	ND	0.15	102	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.200	ND	0.81	104	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.200	ND	0.79	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.020	ND	0.15	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.100	ND	0.60	109	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.022	ND	0.09	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.027	ND	0.12	105	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.100	ND	0.60	107	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.080	ND	0.48	112	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.020	ND	0.13	105	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.200	ND	2.07	119	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.150	ND	0.58	101	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.086	ND	0.54	104	ND	ND	ND	ND	NC	70 - 130	25
Chlorobenzene	ND	0.200	ND	0.92	104	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.200	ND	0.53	102	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	102	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.200	ND	0.41	108	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.200	ND	0.79	104	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.200	ND	0.91	114	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.020	ND	0.17	108	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	76	1.32	1.38	0.267	0.280	NC	70 - 130	25
Methylene Chloride	ND	0.500	ND	1.74	91	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.200	ND	1.36	103	ND	ND	ND	ND	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.200	ND	0.79	106	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.200	ND	0.91	108	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.075	ND	0.40	109	0.62	ND	0.115	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.200	ND	1.12	104	1.12	1.27	0.200	0.226	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.200	ND	1.53	102	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.100	ND	0.26	108	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	100	%	100	%	102	101	99	101	99	NC	70 - 130	25
% IS-1,4-Difluorobenzene	100	%	100	%	102	101	100	101	100	NC	60 - 140	25
% IS-Bromochloromethane	101	%	101	%	103	103	99	103	99	NC	60 - 140	25
% IS-Chlorobenzene-d5	99	%	99	%	103	102	100	102	100	NC	60 - 140	25

QA/QC Batch 566611 (ppbv), QC Sample No: CH77271 (CH77085, CH77088)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.038	ND	0.26	101	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.250	ND	1.36	107	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.010	ND	0.07	99	ND	ND	ND	ND	NC	70 - 130	25

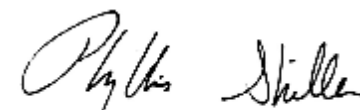
QA/QC Data

SDG I.D.: GCH77085

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
1,1,2-Trichloroethane	ND	0.010	ND	0.05	99	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.075	ND	0.30	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.010	ND	0.04	96	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.010	ND	0.08	105	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.050	ND	0.30	111	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.010	ND	0.04	108	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.010	ND	0.05	99	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.050	ND	0.30	110	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.040	ND	0.24	118	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.010	ND	0.07	102	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.075	ND	0.77	112	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.070	ND	0.27	101	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.043	ND	0.27	111	0.47	0.48	0.075	0.076	NC	70 - 130	25
Chlorobenzene	ND	0.100	ND	0.46	101	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.250	ND	0.66	105	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.100	ND	0.49	100	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.250	ND	0.52	101	1.17	1.19	0.566	0.579	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	104	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	110	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.010	ND	0.09	107	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.250	ND	1.24	105	1.78	1.86	0.361	0.376	NC	70 - 130	25
Methylene Chloride	ND	1.50	ND	5.21	95	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.050	ND	0.34	106	34.4	34.6	5.08	5.11	0.6	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	104	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	102	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.025	ND	0.13	109	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.250	ND	1.40	97	3.79	3.83	0.675	0.683	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.250	ND	1.91	99	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.010	ND	0.03	108	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	101	%	101	%	104	102	102	102	102	NC	70 - 130	25
% IS-1,4-Difluorobenzene	99	%	99	%	99	94	94	94	94	NC	60 - 140	25
% IS-Bromochloromethane	98	%	98	%	99	91	90	91	90	NC	60 - 140	25
% IS-Chlorobenzene-d5	98	%	98	%	110	95	94	95	94	NC	60 - 140	25

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
 March 26, 2021

Sample Criteria Exceedances Report

Criteria: None

GCH77085 - ECMS

State: NY

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

*** No Data to Display ***

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.



CHAIN OF CUSTODY RECORD

AIR ANALYSES

800-827-5426

email: gre@phoenixlabs.com

P.O. #

Page of

Data Delivery:

☐ Fax #:☐ Email:☐ Phone #:

Report to: Harry Sudwischer

Customer: ECMS

Address:

Project Name:

Invoice to:

Sampled by:

Data Format:

Requested Deliverable:

RCP

ASP CAT B

MCP

NJ Deliverables

Quote Number:

Other:

Excel

Equis

(Circle)

Data

Format:

Other:

Ambient/Indoor Air

Soil Gas

Grab (G) Composite (C)

TO-15

APR

ANALYSES

MATRIX

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GCH 77085

harry.sudwischer@ecmsny.com

From: harry.sudwischer@ecmsny.com
Sent: Friday, March 5, 2021 2:42 PM
To: 'Jason Aurrichio'
Subject: CVOC TO-15 List

Jason,

These compounds are for the Congers, NY ECMS Job# 21.087 Job now scheduled on Wednesday 3/10.

The follow compounds are the reduced list of compounds of TO-15 compounds CVOCs:

Trichloroethylene, cis-1,2-Dichloroethylene, 1,1-Dichloroethylene, Carbon tetrachloride, Tetrachloroethylene, 1,1,1-Trichloroethane, Methylene chloride, and Vinyl Chloride

Harry Sudwischer
Cell: (203) 241-1030
Office: (860) 915-1116
Email: harrys@ecmsny.com

Environmental Consulting and Management Services, Inc.
10 Filmont Drive, New City, New York 10956

www.ECMSny.com



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R

Sarah Bell

Subject: FW: Category B deliverable GCH77085
Attachments: 000b790c COC.pdf

*Note: I am currently working remotely. You may call me directly at my cell number below or email

Sarah Bell
Project Manager
Phoenix Environmental Laboratories
587 East Middle Turnpike
Sarah@phoenixlabs.com
(C)860-558-0726
Website: www.phoenixlabs.com

From: harry.sudwischer@ecmsny.com [<mailto:harry.sudwischer@ecmsny.com>]
Sent: Tuesday, March 16, 2021 11:15 AM
To: Bobbi Aloisa; Sarah Bell; Jason Aurrichio; Greg Lawrence
Subject: Category B deliverable GCH77085

Please provide ECMS a Category B report for GCH77085.

Harry

Harry Sudwischer
Cell: (203) 241-1030
Office: (860) 915-1116
Email: harrys@ecmsny.com
Environmental Consulting and Management Services, Inc.
10 Filmont Drive, New City, New York 10956
www.ECMSny.com



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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: ECMS, Inc

Laboratory Project: GCH77085

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 MDL
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.



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



SDG: GCH77085

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: , ECMS, Inc

Form 1 (Analysis):

No observations noted.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: CH77271 LCS
All LCS recoveries met criteria with the following exceptions: None.

Sample: CH77086 LCS
All LCS recoveries met criteria with the following exceptions: None.

Form 4 (Method Blank):

File: CHEM20 0311_07.D
All compounds were non-detect with the following exceptions: None.

File: CHEM24 0312_06.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM20 0308_03.D
All Tune criteria was met with the following exceptions: None.

File: CHEM20 0311_03.D
All Tune criteria was met with the following exceptions: Mass 175 - 2.94% (4-9)

File: CHEM24 0310_02.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0312_02.D
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM20 03/08/21 - 03/09/21
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM24 03/10/21 - 03/10/21
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

SDG: GCH77085

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: , ECMS, Inc

Form 7 (Continuing Calibration):

File: CHEM20 0311_03.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

File: CHEM24 0312_02.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 20_AIR_0308.M / 0311_03.D Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0308.M / 0311_03.D Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0308.M / Average Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0308.M / Average Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24AIR_0310.M / 0312_02.D Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24AIR_0310.M / 0312_02.D Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24AIR_0310.M / Average Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM24 - 24AIR_0310.M / Average Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.



03/26/21

Alejandro Paredes
Project Manager

Lab Name: Phoenix Environmental Labs Client: ECMS

Lab Code: Phoenix Case No.: SDG: GCH77085

QC Batch Id: 566635 QC Sample Id: CH77086

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CH77086 LCS	CH77086 LCS	102				0
02	CH77086 BLANK	CH77086 BLANK	100				0
03	SS-1	CH77086	101				0
04	SS-1 DUP	CH77086 DUP	99				0
05	SS-2	CH77087	100				0
06							
07							
08							
09							
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Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Page 29 of 223

Lab Name: Phoenix Environmental Labs Client: ECMS

Lab Code: Phoenix Case No.: SDG: GCH77085

QC Batch Id: 566611 QC Sample Id: CH77271

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CH77271 LCS	CH77271 LCS	104				0
02	CH77271 BLANK	CH77271 BLANK	101				0
03	CH77271 QC	CH77271 QC	102				0
04	77271 0.5x dup	CH77271 DUP	102				0
05	IA-1	CH77085	103				0
06	AA-1	CH77088	103				0
07							
08							
09							
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Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

Page 30 of 223

LCS - Client Id: CH77086 LCS

[illegible]

4A
AIR METHOD BLANK SUMMARY

Client ID

CH77086 BLANK

Lab Name: Phoenix Environmental Labs

Client: ECMS

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCH77085

Lab File ID: 0312_06.D

Lab Sample ID: CH77086 BLK

Date Analyzed: 03/12/2021

Time Analyzed: 12:49

GC Column: RTX-VMS

Lab Batch ID: 566635

Instrument ID: CHEM24

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CH77086 LCS	CH77086 LCS	0312_04.D	11:54
02	SS-1	CH77086	0312_07.D	13:23
03	SS-1 DUP	CH77086 DUP	0312_08.D	13:58
04	SS-2	CH77087	0312_09.D	14:33
05				
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COMMENTS:

FORM IV AIR

4A
AIR METHOD BLANK SUMMARY

Client ID

CH77271 BLANK

Lab Name: Phoenix Environmental Labs

Client: ECMS

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCH77085

Lab File ID: 0311_07.D

Lab Sample ID: CH77271 BLK

Date Analyzed: 03/11/2021

Time Analyzed: 17:34

GC Column: RTX-1 60M

Lab Batch ID: 566611

Instrument ID: CHEM20

Heated Purge:(Y/N) Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CH77271 LCS	CH77271 LCS	0311_05.D	16:25
02	CH77271 QC	CH77271 0.5X	0311_08.D	19:18
03	77271 0.5x dup	CH77271 DUP 0.5X	0311_09.D	20:09
04	IA-1	CH77085	0311_13.D	22:48
05	AA-1	CH77088	0311_14.D	23:28
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COMMENTS:

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab File ID: 0308_03.D BFB Injection Date: 03/08/21

Instrument ID: CHEM20 BFB Injection Time: 16:57

GC Column: RTX-1 60M Heated Purge: (Y/N) Y

AutoFind: Scans 781, 782, 783; Background Corrected with Scan 776

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	37.5
75	30.0 - 66.0% of mass 95	52.7
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	77.4
175	4.0 - 9.0% of mass 174	8.0 (6.2)1
176	93.0 - 101.0% of mass 174	96.7 (74.9)1
177	5.0 - 9.0% of mass 176	6.9 (5.1)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 0.02	0.02	0308_04.D	03/08/21	17:33	
02	ICAL 0.035	0.035	0308_05.D	03/08/21	18:09	
03	ICAL 0.05	0.05	0308_06.D	03/08/21	18:45	
04	ICAL 0.1	0.10	0308_07.D	03/08/21	19:21	
05	ICAL 0.2	0.2	0308_08.D	03/08/21	19:58	
06	ICAL 0.5	0.50	0308_09.D	03/08/21	20:36	
07	ICAL 2.5	2.5	0308_10.D	03/08/21	21:15	
08	ICAL 5	5.0	0308_11.D	03/08/21	21:51	
09	ICAL 25	25	0308_12.D	03/08/21	22:30	
10	ICAL 40	40	0308_13.D	03/08/21	23:10	
11	ICAL 1	1.0ppb cc	0308_15.D	03/09/21	00:21	
12	ICAL 10	10ppb cc	0308_16.D	03/09/21	00:58	
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_03.D
 Acq On : 8 Mar 2021 4:57 pm
 Operator :
 Sample : 0/0
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

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

Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 14:51:29 2021

AutoFind: Scans 781, 782, 783; Background Corrected with Scan 776

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	37.5	104888	PASS
75	95	30	66	52.7	147211	PASS
95	95	100	100	100.0	279552	PASS
96	95	5	9	6.8	19044	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	77.4	216413	PASS
175	174	4	9	8.0	17320	PASS
176	174	93	101	96.7	209280	PASS
177	176	5	9	6.8	14326	PASS

20_AIR_0308.M Tue Mar 09 14:52:02 2021

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab File ID: 0311_03.D BFB Injection Date: 03/11/21

Instrument ID: CHEM20 BFB Injection Time: 15:09

GC Column: RTX-1 60M Heated Purge: (Y/N) Y

Spectrum Information: Tune, Average of 11.268 to 11.288 min.; with background subtraction.

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	39.2
75	30.0 - 66.0% of mass 95	56.3
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	72.6
175	4.0 - 9.0% of mass 174	2.9 (2.1)1
176	93.0 - 101.0% of mass 174	95.0 (69.0)1
177	5.0 - 9.0% of mass 176	6.7 (4.6)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	1.0ppb cc	0311_03.D	03/11/21	15:09	
02	CH77271 LCS	CH77271 LCS	0311_05.D	03/11/21	16:25	
03	CH77271 BLANK	CH77271 BLANK	0311_07.D	03/11/21	17:34	
04	CH77271 QC	CH77271 QC	0311_08.D	03/11/21	19:18	
05	77271 0.5x dup	CH77271 DUP	0311_09.D	03/11/21	20:09	
06	IA-1	CH77085	0311_13.D	03/11/21	22:48	
07	AA-1	CH77088	0311_14.D	03/11/21	23:28	
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25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_03.D
 Acq On : 11 Mar 2021 3:09 pm
 Operator :
 Sample : 1.0ppb cc
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

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

Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 15:44:40 2021

Spectrum Information: Average of 11.268 to 11.288 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	39.2	87554	PASS
75	95	30	66	56.3	125742	PASS
95	95	100	100	100.0	223259	PASS
96	95	5	9	6.5	14531	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	72.6	162170	PASS
175	174	3	9	2.9	4765	PASS
176	174	93	101	95.0	154084	PASS
177	176	5	9	6.7	10367	PASS

20_AIR_0308.M Fri Mar 12 09:30:40 2021

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab File ID: 0310_02.D BFB Injection Date: 03/10/21

Instrument ID: CHEM24 BFB Injection Time: 10:54

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1651, 1652, 1653; Background Corrected with Scan 1643

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	31.6
75	30.0 - 66.0% of mass 95	51.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	91.9
175	4.0 - 9.0% of mass 174	7.8 (7.1)1
176	93.0 - 101.0% of mass 174	94.2 (86.5)1
177	5.0 - 9.0% of mass 176	6.6 (5.7)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 0.02	0.02	0310_03.D	03/10/21	11:22	
02	ICAL 0.035	0.035	0310_04.D	03/10/21	11:50	
03	ICAL 0.05	0.05	0310_05.D	03/10/21	12:18	
04	ICAL 0.1	0.10	0310_06.D	03/10/21	12:46	
05	ICAL 0.25	0.20	0310_07.D	03/10/21	13:16	
06	ICAL 0.5	0.50	0310_08.D	03/10/21	13:48	
07	ICAL 2.5	2.5	0310_09.D	03/10/21	14:21	
08	ICAL 5	5.0	0310_10.D	03/10/21	14:50	
09	ICAL 25	25	0310_11.D	03/10/21	15:23	
10	ICAL 40	40	0310_12.D	03/10/21	15:59	
11	ICAL 1	1ppb	0310_14.D	03/10/21	16:57	
12	ICAL 10	10ppb	0310_15.D	03/10/21	17:26	
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_02.D
 Acq On : 10 Mar 2021 10:54 am
 Operator : Keith
 Sample : 0/0
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

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

Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:25:01 2021

AutoFind: Scans 1651, 1652, 1653; Background Corrected with Scan 1643

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	31.6	77443	PASS
75	95	30	66	51.0	124928	PASS
95	95	100	100	100.0	244885	PASS
96	95	5	9	6.9	16826	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.9	224960	PASS
175	174	4	9	7.7	17430	PASS
176	174	93	101	94.2	211819	PASS
177	176	5	9	6.5	13869	PASS

24AIR_0310.M Fri Mar 12 10:29:24 2021

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab File ID: 0312_02.D BFB Injection Date: 03/12/21

Instrument ID: CHEM24 BFB Injection Time: 10:50

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1653, 1654, 1655; Background Corrected with Scan 1645

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	31.5
75	30.0 - 66.0% of mass 95	50.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	90.2
175	4.0 - 9.0% of mass 174	7.8 (7.0)1
176	93.0 - 101.0% of mass 174	93.5 (84.4)1
177	5.0 - 9.0% of mass 176	6.5 (5.5)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	CCAL 1	1ppb cc	0312_02.D	03/12/21	10:50	
02	CH77086 LCS	CH77086 LCS	0312_04.D	03/12/21	11:54	
03	CH77086 BLANK	CH77086 BLANK	0312_06.D	03/12/21	12:49	
04	SS-1	CH77086	0312_07.D	03/12/21	13:23	
05	SS-1 DUP	CH77086 DUP	0312_08.D	03/12/21	13:58	
06	SS-2	CH77087	0312_09.D	03/12/21	14:33	
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_02.D
 Acq On : 12 Mar 2021 10:50 am
 Operator : Keith
 Sample : 1ppb cc
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

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

Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:34:44 2021

AutoFind: Scans 1653, 1654, 1655; Background Corrected with Scan 1645

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	31.5	78997	PASS
75	95	30	66	50.4	126445	PASS
95	95	100	100	100.0	251093	PASS
96	95	5	9	7.0	17584	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	90.2	226539	PASS
175	174	4	9	7.8	17583	PASS
176	174	93	101	93.5	211861	PASS
177	176	5	9	6.5	13783	PASS

24AIR_0310.M Fri Mar 12 14:00:25 2021

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab Method / File Id: 20_AIR_0308.M / Average Date Analyzed: 03/09/21

Instrument ID: CHEM20 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
12 HOUR STD	295184	6.72	1118320	7.90	582928	10.44			Average
UPPER LIMIT	414733	7.05	1571239	8.23	819014	10.77			Average
LOWER LIMIT	175634	6.39	665400	7.57	346842	10.11			Average
CLIENT ID									
01 ICAL 0.2	282286	6.71	1012296	7.90	475318	10.44			0308_08.D
02 ICAL 0.5	280228	6.71	1038012	7.90	487404	10.44			0308_09.D
03 ICAL 2.5	277867	6.71	1056035	7.90	508050	10.44			0308_10.D
04 ICAL 5	286689	6.72	1086910	7.91	534994	10.44			0308_11.D
05 ICAL 25	306224	6.73	1177891	7.91	700286	10.44			0308_12.D
06 ICAL 40	314785	6.72	1237755	7.91	811914	10.44			0308_13.D
07 ICAL 1	305920	6.70	1166124	7.90	541768	10.44			0308_15.D
08 ICAL 10	307472	6.71	1171534	7.91	603693	10.44			0308_16.D
09									
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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: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab Method / File Id: 20_AIR_0308.M / Average Date Analyzed: 03/09/21

Instrument ID: CHEM20 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
12 HOUR STD	334657	6.72	1068906	7.90	509985	10.44			Average
UPPER LIMIT	470193	7.05	1501813	8.23	716529	10.77			Average
LOWER LIMIT	199121	6.39	635999	7.57	303441	10.11			Average
CLIENT ID									
01 ICAL 0.02	334233	6.72	1046301	7.91	488994	10.44			0308_04.D
02 ICAL 0.035	335763	6.72	1057102	7.91	492311	10.44			0308_05.D
03 ICAL 0.05	330136	6.71	1023131	7.90	487347	10.44			0308_06.D
04 ICAL 0.1	329542	6.72	1033104	7.90	479734	10.44			0308_07.D
05 ICAL 0.2	323883	6.72	1012296	7.90	475434	10.44			0308_08.D
06 ICAL 0.5	325449	6.72	1036799	7.90	487404	10.44			0308_09.D
07 ICAL 2.5	325241	6.72	1055580	7.90	508050	10.44			0308_10.D
08 ICAL 5	334177	6.73	1086910	7.91	534994	10.44			0308_11.D
09 ICAL 1	352756	6.71	1166301	7.90	541768	10.44			0308_15.D
10 ICAL 10	355389	6.72	1171534	7.91	603814	10.44			0308_16.D
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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: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab Method / File Id: 20_AIR_0308.M / 0311_03.D Date Analyzed: 03/11/21

Instrument ID: CHEM20 Time Analyzed: 15:09

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
12 HOUR STD	253074	6.71	952741	7.90	444820	10.44			0311_03.D
UPPER LIMIT	355569	7.04	1338601	8.23	624972	10.77			0311_03.D
LOWER LIMIT	150579	6.38	566881	7.57	264668	10.11			0311_03.D
CLIENT ID									
01 CCAL 1	253074	6.71	952741	7.90	444820	10.44			0311_03.D
02 CH77271 LCS	249889	6.71	945348	7.90	489371	10.44			0311_05.D
03 CH77271 BLANK	248887	6.71	941785	7.90	437735	10.44			0311_07.D
04 CH77271 QC	231531	6.71	896726	7.90	421417	10.44			0311_08.D
05 77271 0.5x dup	227023	6.72	894060	7.91	418231	10.44			0311_09.D
06 IA-1	225678	6.71	868116	7.90	409785	10.44			0311_13.D
07 AA-1	231594	6.72	887663	7.90	412669	10.44			0311_14.D
08									
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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: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab Method / File Id: 20_AIR_0308.M / 0311_03.D Date Analyzed: 03/11/21

Instrument ID: CHEM20 Time Analyzed: 15:09

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
12 HOUR STD	286006	6.72	952547	7.90	444820	10.44			0311_03.D
UPPER LIMIT	401838	7.05	1338329	8.23	624972	10.77			0311_03.D
LOWER LIMIT	170174	6.39	566765	7.57	264668	10.11			0311_03.D
CLIENT ID									
01 CCAL 1	286006	6.72	952547	7.90	444820	10.44			0311_03.D
02 CH77271 LCS	285554	6.72	945348	7.90	489359	10.44			0311_05.D
03 CH77271 BLANK	288175	6.71	941785	7.90	437735	10.44			0311_07.D
04 CH77271 QC	270080	6.72	896726	7.90	421655	10.44			0311_08.D
05 77271 0.5x dup	266053	6.73	894060	7.91	418231	10.44			0311_09.D
06 IA-1	263307	6.72	868116	7.90	409785	10.44			0311_13.D
07 AA-1	267886	6.72	887501	7.90	412669	10.44			0311_14.D
08									
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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: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab Method / File Id: 24AIR_0310.M / Average Date Analyzed: 03/10/21

Instrument ID: CHEM24 Time Analyzed: 16:57

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
12 HOUR STD	253703	5.27	784732	7.22	360257	10.82			Average
UPPER LIMIT	356453	5.60	1102549	7.55	506162	11.15			Average
LOWER LIMIT	150953	4.94	466916	6.89	214353	10.49			Average
CLIENT ID									
01 ICAL 0.25	231674	5.27	725271	7.22	328052	10.82			0310_07.D
02 ICAL 0.5	231764	5.26	716071	7.22	325712	10.82			0310_08.D
03 ICAL 2.5	239111	5.26	742576	7.22	339216	10.82			0310_09.D
04 ICAL 5	243477	5.26	754278	7.22	346423	10.82			0310_10.D
05 ICAL 25	260135	5.27	798759	7.22	370220	10.82			0310_11.D
06 ICAL 40	286481	5.27	853333	7.22	403308	10.82			0310_12.D
07 ICAL 1	267959	5.26	846753	7.22	386928	10.82			0310_14.D
08 ICAL 10	269022	5.26	840816	7.22	382200	10.82			0310_15.D
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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: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab Method / File Id: 24AIR_0310.M / Average Date Analyzed: 03/10/21

Instrument ID: CHEM24 Time Analyzed: 16:57

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
12 HOUR STD	250628	5.26	752202	7.22	340118	10.81			Average
UPPER LIMIT	352132	5.59	1056844	7.55	477866	11.14			Average
LOWER LIMIT	149123	4.93	447560	6.89	202370	10.48			Average
CLIENT ID									
01 ICAL 0.02	239682	5.26	722937	7.21	320823	10.81			0310_03.D
02 ICAL 0.035	241554	5.26	720639	7.22	325341	10.81			0310_04.D
03 ICAL 0.05	241998	5.26	722772	7.21	323127	10.81			0310_05.D
04 ICAL 0.1	245111	5.26	729909	7.22	323360	10.81			0310_06.D
05 ICAL 0.25	240292	5.26	725271	7.22	328052	10.82			0310_07.D
06 ICAL 0.5	241281	5.27	716071	7.22	325712	10.82			0310_08.D
07 ICAL 2.5	247774	5.27	742576	7.22	339216	10.82			0310_09.D
08 ICAL 5	254190	5.27	754278	7.22	346423	10.82			0310_10.D
09 ICAL 1	276144	5.27	846753	7.22	386928	10.82			0310_14.D
10 ICAL 10	278251	5.27	840816	7.22	382200	10.82			0310_15.D
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
Full Scan

Lab Name: Phoenix Environmental Labs Client: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab Method / File Id: 24AIR_0310.M / 0312_02.D Date Analyzed: 03/12/21

Instrument ID: CHEM24 Time Analyzed: 10:50

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	236651	5.29	743938	7.23	336594	10.83			0312_02.D
UPPER LIMIT	332495	5.62	1045233	7.56	472915	11.16			0312_02.D
LOWER LIMIT	140807	4.96	442643	6.90	200273	10.50			0312_02.D
CLIENT ID									
01 CCAL 1	236651	5.29	743938	7.23	336594	10.83			0312_02.D
02 CH77086 LCS	243082	5.29	760441	7.24	346203	10.83			0312_04.D
03 CH77086 BLANK	238884	5.30	743930	7.24	332089	10.83			0312_06.D
04 SS-1	244116	5.29	751947	7.24	341855	10.83			0312_07.D
05 SS-1 DUP	234803	5.29	745844	7.24	335107	10.83			0312_08.D
06 SS-2	239202	5.29	749130	7.24	340254	10.83			0312_09.D
07									
08									
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: ECMS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCH77085

Lab Method / File Id: 24AIR_0310.M / 0312_02.D Date Analyzed: 03/12/21

Instrument ID: CHEM24 Time Analyzed: 10:50

GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	243341	5.29	743938	7.23	336594	10.83			0312_02.D
UPPER LIMIT	341894	5.62	1045233	7.56	472915	11.16			0312_02.D
LOWER LIMIT	144788	4.96	442643	6.90	200273	10.50			0312_02.D
CLIENT ID									
01 CCAL 1	243341	5.29	743938	7.23	336594	10.83			0312_02.D
02 CH77086 LCS	248546	5.30	760441	7.24	346203	10.83			0312_04.D
03 CH77086 BLANK	244327	5.30	743930	7.24	332089	10.83			0312_06.D
04 SS-1	247193	5.29	751947	7.24	341855	10.83			0312_07.D
05 SS-1 DUP	241883	5.30	745844	7.24	335107	10.83			0312_08.D
06 SS-2	245476	5.30	749130	7.24	340254	10.83			0312_09.D
07									
08									
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

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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

1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-1

Client: ECMS Lab: Phoenix Env. Labs

SDG No.: GCH77085 Lab Sample ID: CH77085

Canister: 470 Lab File ID: 0311_13.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 03/11/21

Purge Volume 200 (cc) Date Analyzed: 03/11/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.382		0.200	0.200	r
74-87-3	Chloromethane	0.570		0.200	0.200	r
75-00-3	Chloroethane	0.200	U	0.200	0.200	r
75-69-4	Trichlorofluoromethane	0.211		0.200	0.200	r
75-09-2	Methylene Chloride	0.500	U	0.500	0.500	r
10061-02-6	trans-1,3-Dichloropropene	0.200	U	0.200	0.200	r
630-20-6	1,1,1,2-Tetrachloroethane	0.200	U	0.500	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
75-01-4	Vinyl Chloride(sim)	0.100	U	0.100	0.100	r
74-83-9	Bromomethane(sim)	0.150	U	0.150	0.150	r
107-06-2	1,2-Dichloroethane(sim)	0.022	U	0.022	0.022	r
71-55-6	1,1,1-Trichloroethane(sim)	0.200	U	0.500	0.200	r
56-23-5	Carbon Tetrachloride(sim)	0.086	U	0.086	0.086	r
75-35-4	1,1-Dichloroethene(sim)	0.200	U	0.200	0.200	r
76-13-1	Trichlorotrifluoroethane(sim)	0.200	U	0.200	0.200	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
75-34-3	1,1-Dichloroethane(sim)	0.200	U	0.200	0.200	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
78-87-5	1,2-dichloropropane(sim)	0.027	U	0.027	0.027	r
75-27-4	Bromodichloromethane(sim)	0.020	U	0.020	0.020	r
79-01-6	Trichloroethene(sim)	0.083		0.075	0.075	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.200	U	0.200	0.200	r
79-00-5	1,1,2-Trichloroethane(sim)	0.027	U	0.027	0.027	r
124-48-1	Dibromochloromethane(sim)	0.020	U	0.020	0.020	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.020	U	0.020	0.020	r
127-18-4	Tetrachloroethene(sim)	0.200	U	0.200	0.200	r
75-25-2	Bromoform(sim)	0.200	U	0.200	0.200	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.020	U	0.020	0.020	r
541-73-1	1,3-Dichlorobenzene(sim)	0.100	U	0.100	0.100	r
106-46-7	1,4-Dichlorobenzene(sim)	0.080	U	0.080	0.080	r
95-50-1	1,2-Dichlorobenzene(sim)	0.100	U	0.100	0.100	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:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_13.D
 Acq On : 11 Mar 2021 10:48 pm
 Operator :
 Client ID : IA-1
 Lab ID : CH77085
 ALS Vial : 12 Sample Multiplier: 1

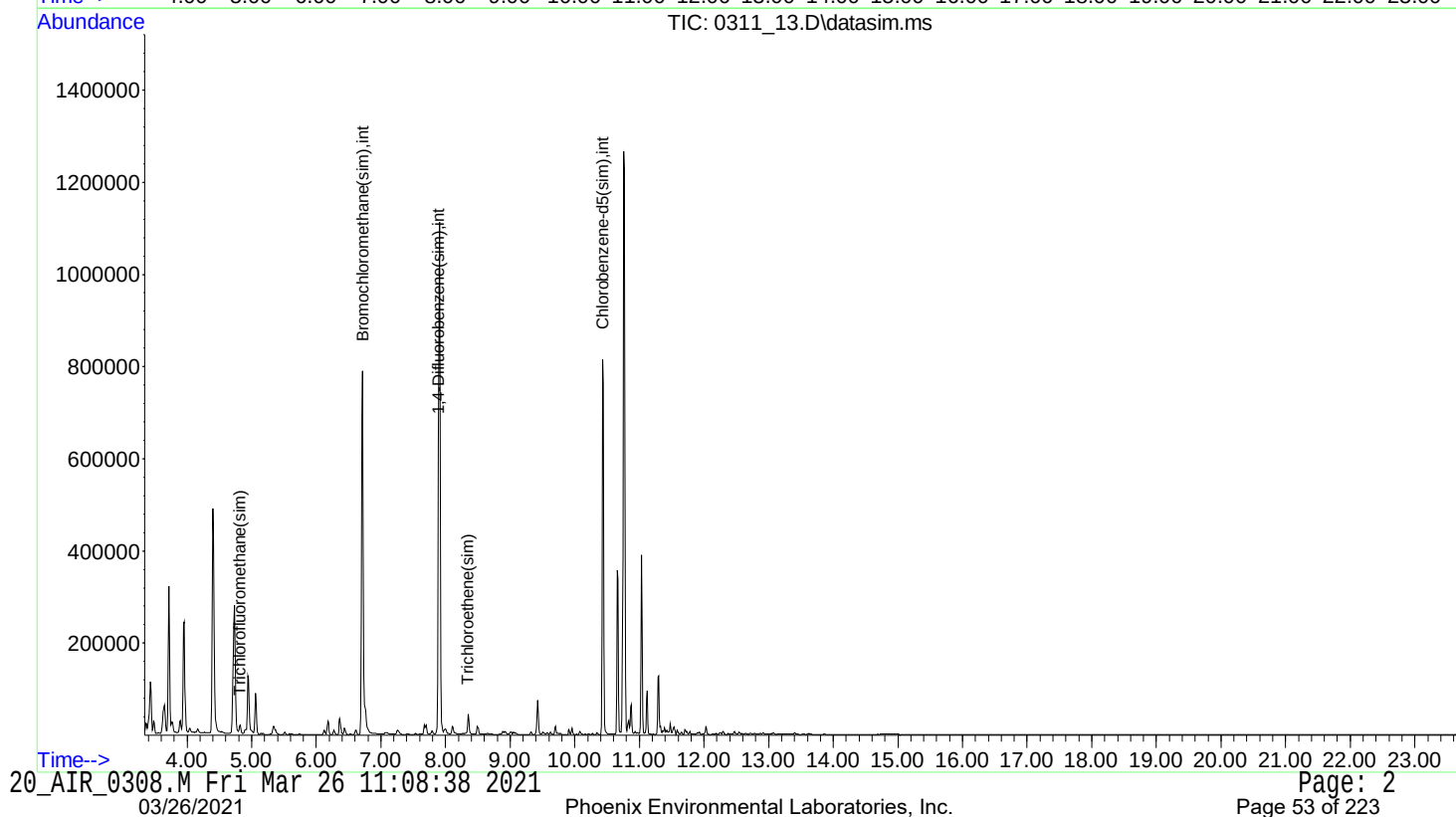
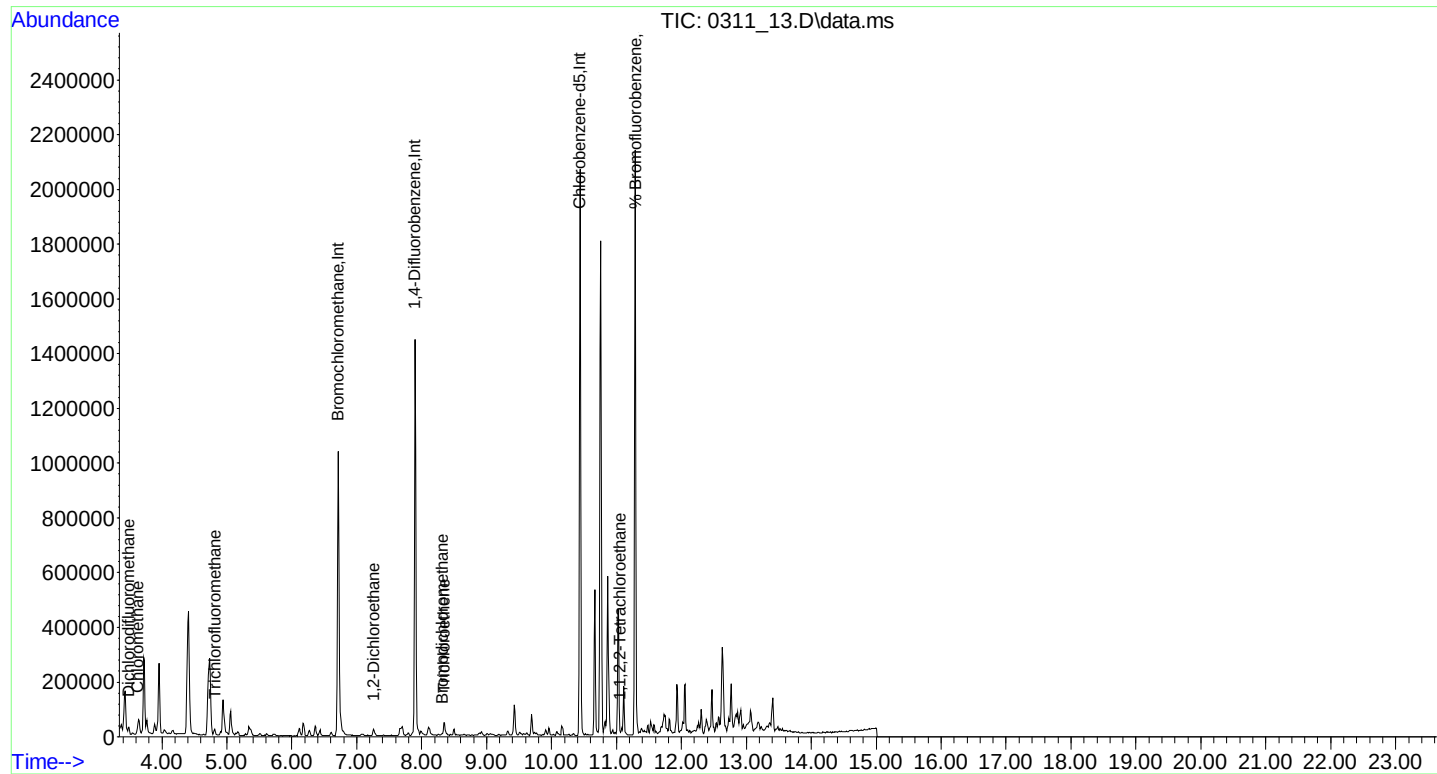
Quant Time: Mar 12 10:50:32 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 09 15:44:40 2021
 Response via : Initial Calibration

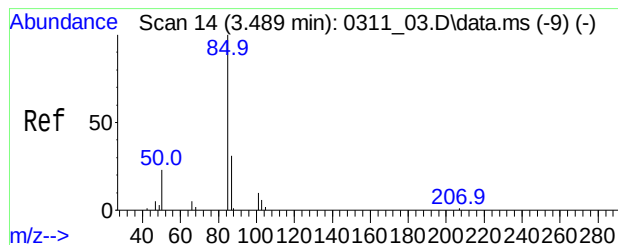
Compound	R.T	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.712	130	225678	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.897	114	868116	10.000	ng	0.00
54) Chlorobenzene-d5	10.438	82	409785	10.000	ng	0.00
81) Bromochloromethane(sim)	6.718	130	263307	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.897	114	868116	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.438	82	409785	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.289	95	488380	10.318	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.20%
Target Compounds						
3) Dichlorodifluoromethane	3.489	85	21751	0.382	ppbv#	Qvalue 90
4) Chloromethane	3.629	50	24946	0.570	ppbv	87
13) Trichlorofluoromethane	4.815	101	14908	0.210	ppbv	98
32) 1,2-Dichloroethane	7.264	62	981	0.023	ppbv#	79
35) Carbon Tetrachloride	7.797	117	4849	0.082	ppbv	86
39) Bromodichloromethane	8.321	83	1265	0.022	ppbv#	63
40) Trichloroethene	8.343	130	2779	0.085	ppbv#	84
61) 1,1,2,2-Tetrachloroethane	11.053	83	1548	0.026	ppbv#	1
85) Trichlorofluoromethane...	4.820	101	17477	0.214	ppbv#	98
99) Trichloroethene(sim)	8.348	130	3283	0.083	ppbv	99
109) 1,1,2,2-Tetrachloroeth...	11.028	83	1249	0.017	ppbv#	97

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

Data Path : H:\AIR2021\CHEM20\03MAR\11\
Data File : 0311_13.D
Acq On : 11 Mar 2021 10:48 pm
Operator :
Client ID : IA-1
Lab ID : CH77085
ALS Vial : 12 Sample Multiplier: 1

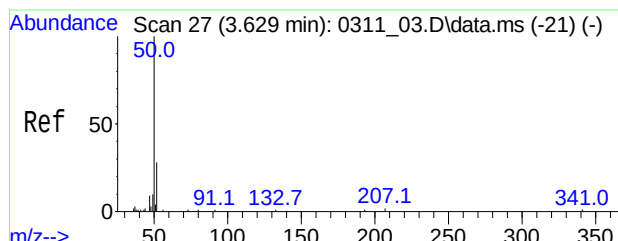
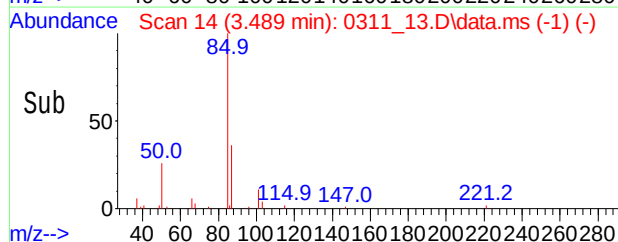
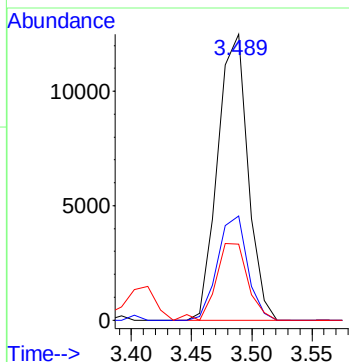
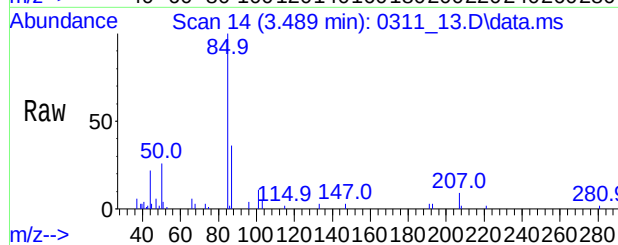
Quant Time: Mar 12 10:50:32 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 09 15:44:40 2021
Response via : Initial Calibration





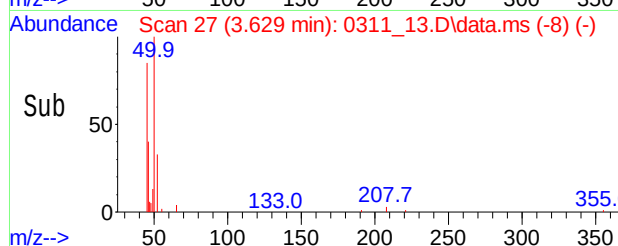
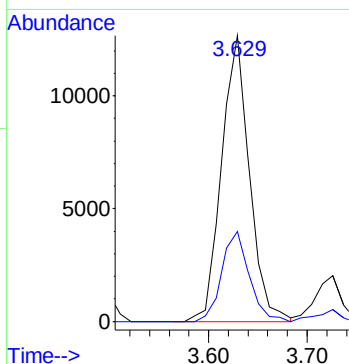
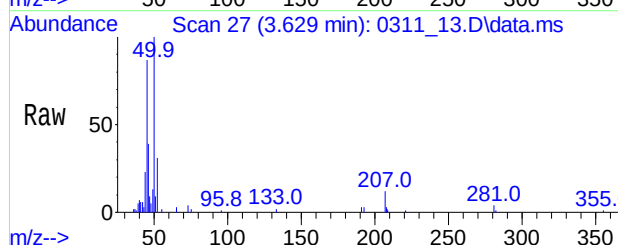
#3
Dichlorodifluoromethane
Conc: 8\$ 0.382 ppbv
RT: 3.489 min Scan# 14
Delta R.T. -0.000 min
Lab File: 0311_13.D
Acq: 11 Mar 2021 10:48 pm

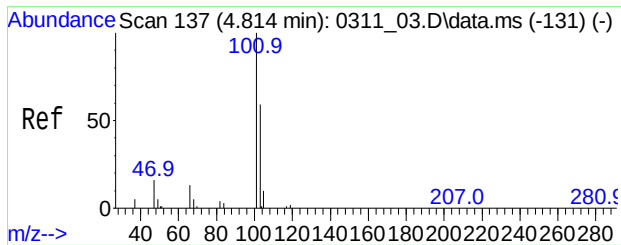
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	21751		
87	36.0	25.6	38.4	
50	28.1	16.7	25.1#	



#4
Chloromethane
Conc: 8\$ 0.570 ppbv
RT: 3.629 min Scan# 27
Delta R.T. 0.000 min
Lab File: 0311_13.D
Acq: 11 Mar 2021 10:48 pm

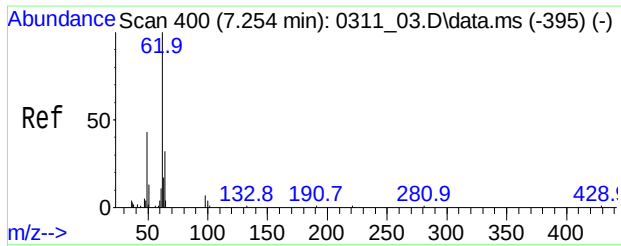
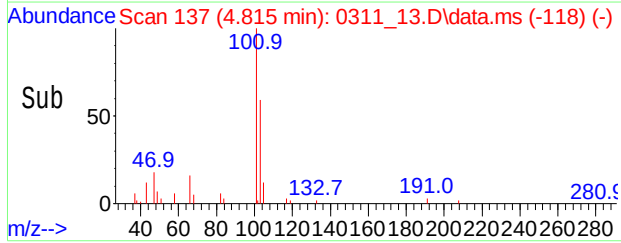
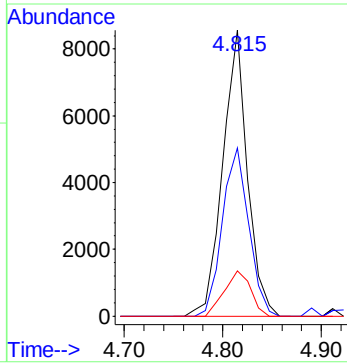
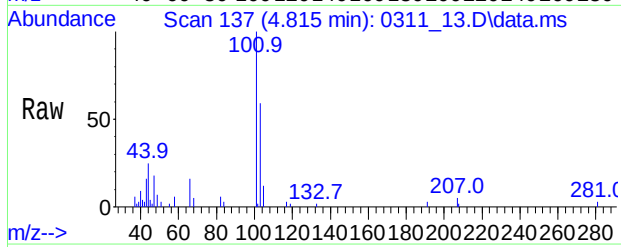
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	24946		
52	31.1	19.1	59.1	





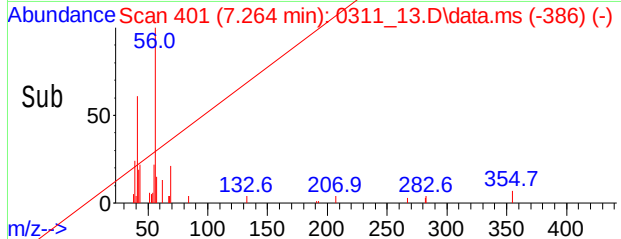
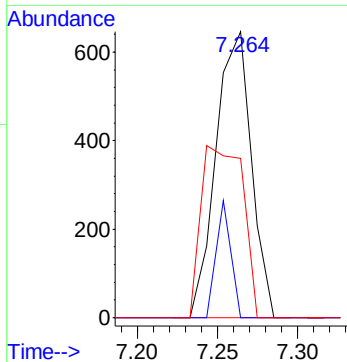
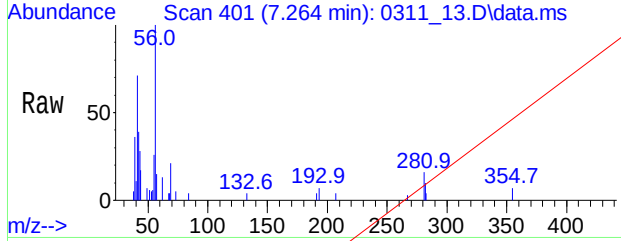
#13
 Trichlorofluoromethane
 Conc: 8\$ 0.210 ppbv
 RT: 4.815 min Scan# 137
 Delta R.T. 0.001 min
 Lab File: 0311_13.D
 Acq: 11 Mar 2021 10:48 pm

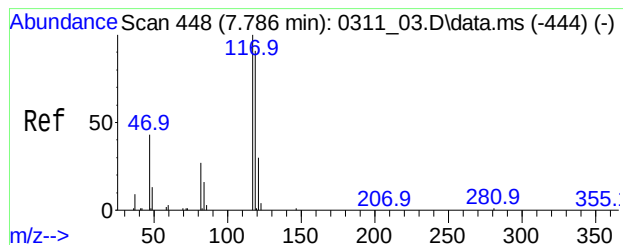
Tgt Ion	101	Resp	14908
Ion Ratio	Lower	Upper	
101	100		
103	63.0	49.3	73.9
66	16.9	12.3	18.5



#32
 1,2-Dichloroethane
 Conc: 8\$ Below Cal
 RT: 7.264 min Scan# 401
 Delta R.T. 0.008 min
 Lab File: 0311_13.D
 Acq: 11 Mar 2021 10:48 pm

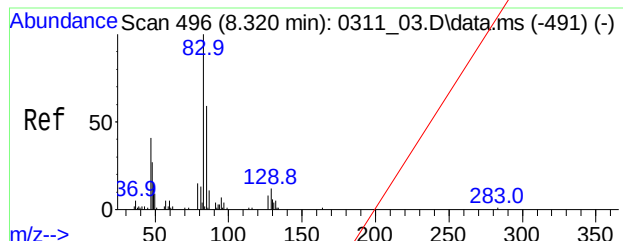
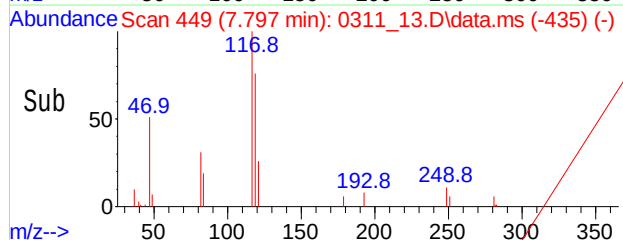
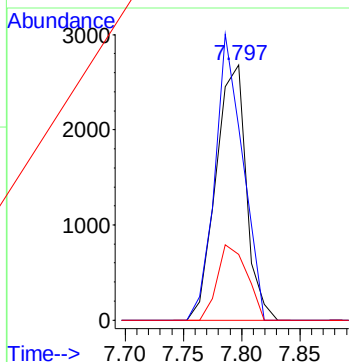
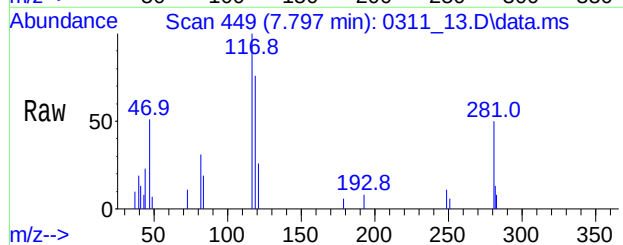
Tgt Ion	62	Resp	981
Ion Ratio	Lower	Upper	
62	100		
64	16.8	27.4	41.2#
49	71.0	47.4	71.0#





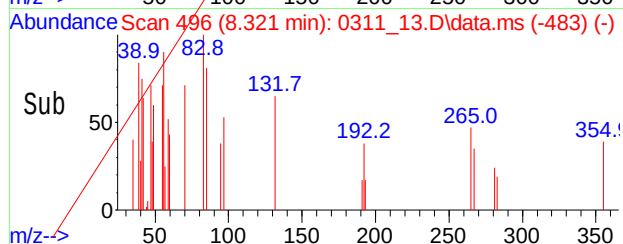
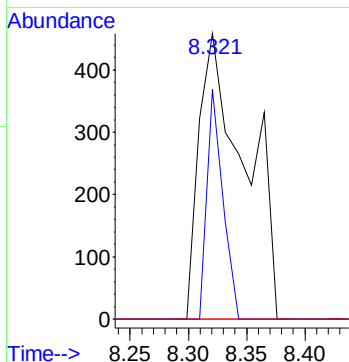
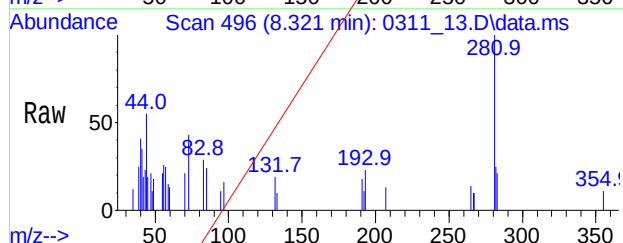
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 7.797 min Scan# 449
Delta R.T. 0.009 min
Lab File: 0311_13.D
Acq: 11 Mar 2021 10:48 pm

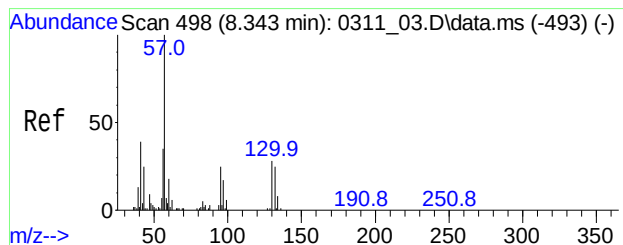
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4849		
119	102.8	67.3	107.3	
121	28.8	13.7	53.7	



#39
Bromodichloromethane
Conc: 8\$ Below Cal
RT: 8.321 min Scan# 496
Delta R.T. -0.002 min
Lab File: 0311_13.D
Acq: 11 Mar 2021 10:48 pm

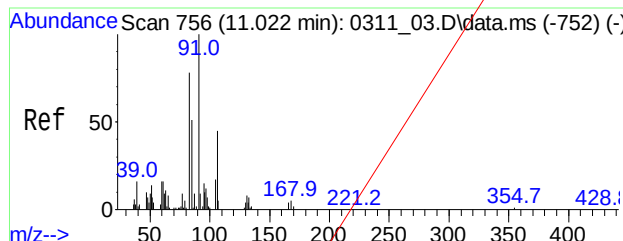
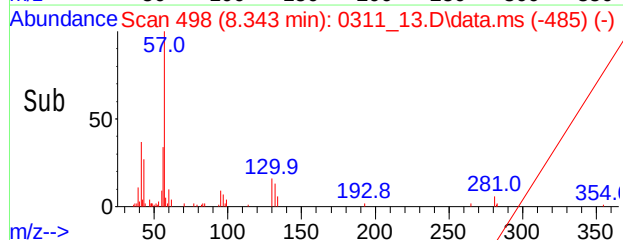
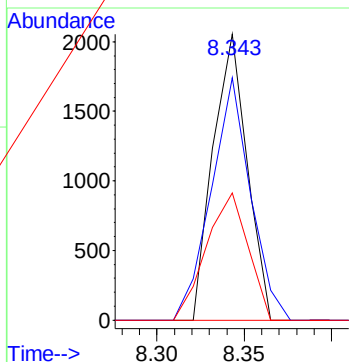
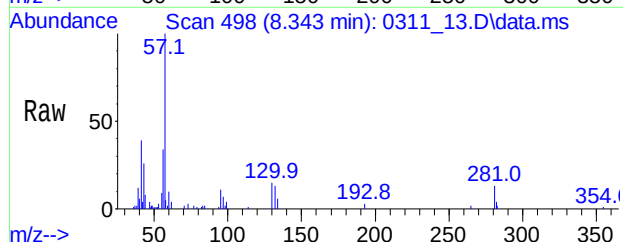
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	1265		
85	27.7	35.2	75.2#	
129	0.0	0.0	32.2	





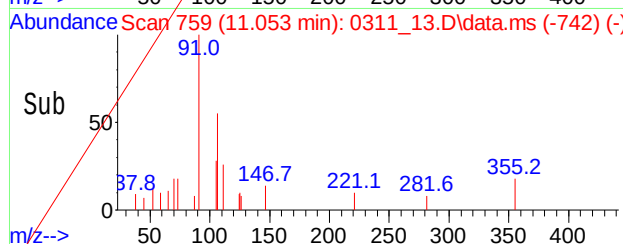
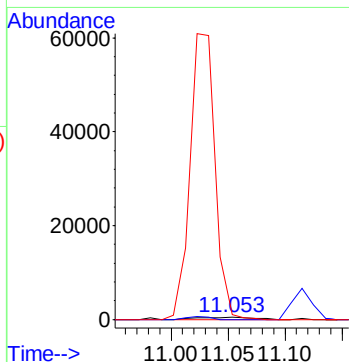
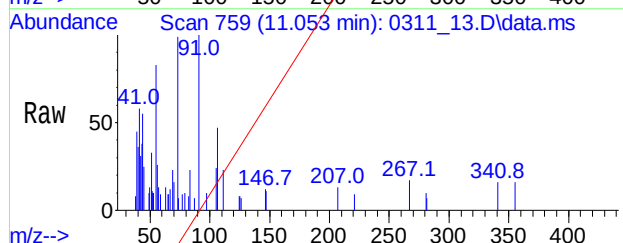
#40
Trichloroethene
Conc: 8\$ Below Cal
RT: 8.343 min Scan# 498
Delta R.T. -0.002 min
Lab File: 0311_13.D
Acq: 11 Mar 2021 10:48 pm

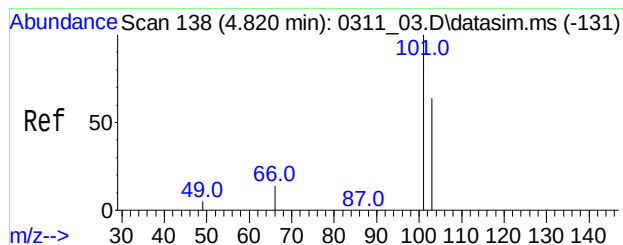
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	2779		
132	98.3	80.0	120.0	
97	54.4	67.8	101.6#	



#61
1,1,2,2-Tetrachloroethane
Conc: 8\$ Below Cal
RT: 11.053 min Scan# 759
Delta R.T. 0.029 min
Lab File: 0311_13.D
Acq: 11 Mar 2021 10:48 pm

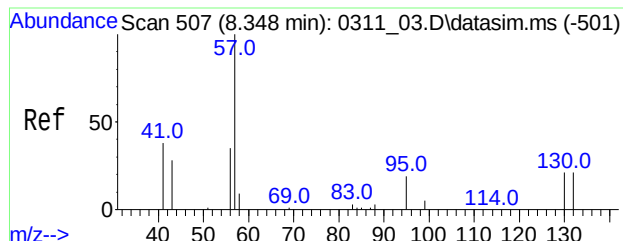
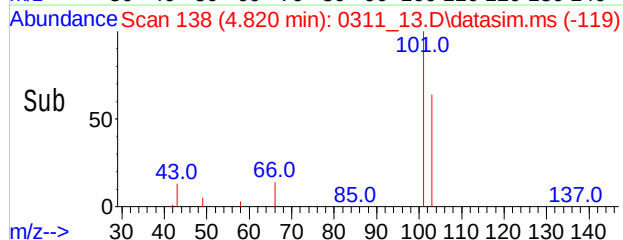
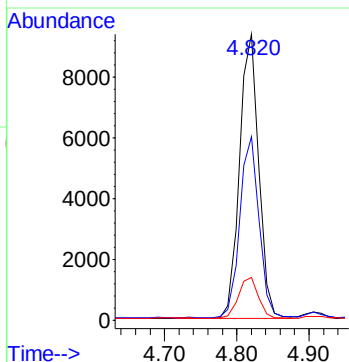
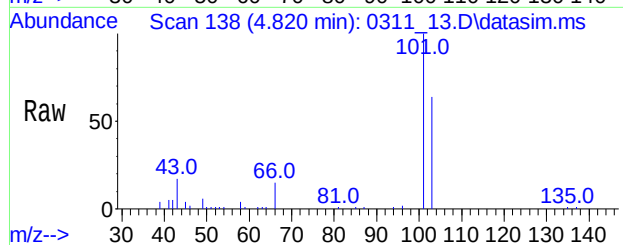
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	1548		
85	56.8	59.8	89.6#	
106	6049.9	38.6	57.8#	





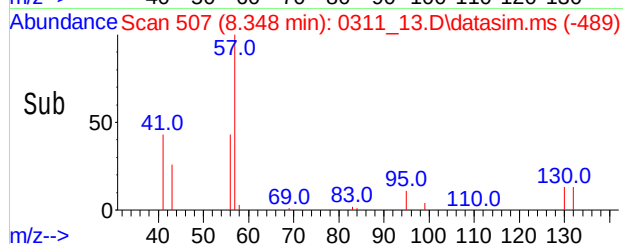
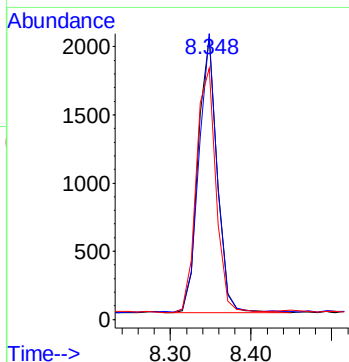
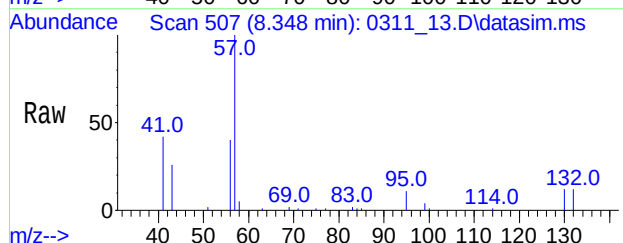
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.214 ppbv
RT: 4.820 min Scan# 138
Delta R.T. 0.000 min
Lab File: 0311_13.D
Acq: 11 Mar 2021 10:48 pm

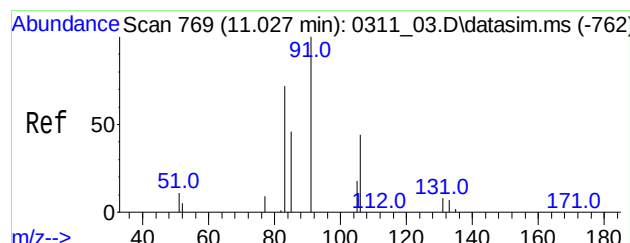
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	17477		
103	63.9	50.5	75.7	
66	15.0	16.5	16.5	



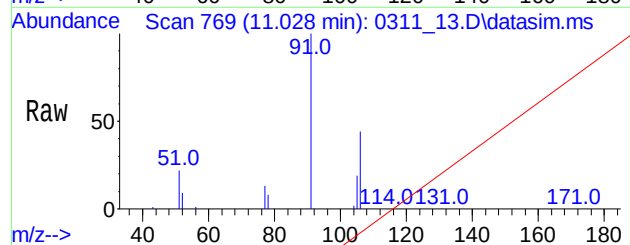
#99
Trichloroethene(sim)
Conc: 8\$ 0.083 ppbv
RT: 8.348 min Scan# 507
Delta R.T. -0.003 min
Lab File: 0311_13.D
Acq: 11 Mar 2021 10:48 pm

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	3283		
132	96.8	76.9	115.3	
95	92.2	75.4	113.0	

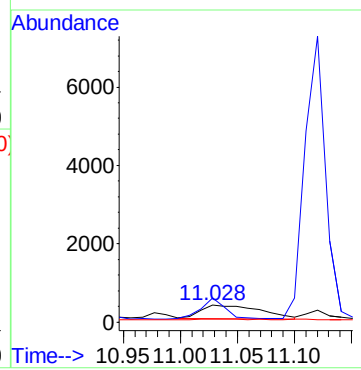
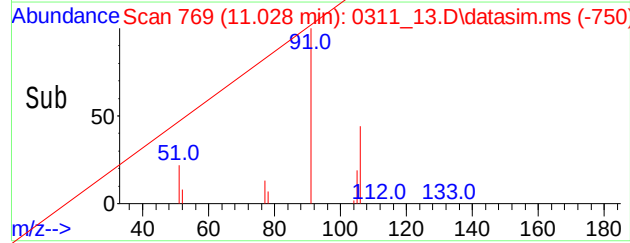




#109
 1,1,2,2-Tetrachloroethane(sim)
 Conc: 8\$ Below Cal
 RT: 11.028 min Scan# 769
 Delta R.T. -0.002 min
 Lab File: 0311_13.D
 Acq: 11 Mar 2021 10:48 pm



Tgt Ion:	83	Resp:	1249
Ion Ratio	Lower	Upper	
83	100		
85	65.3	0.0	149.2
131	4.4	9.0	13.6#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>ECMS</u>	Lab:	<u>Phoenix Env. Labs</u>	SS-1
SDG No.:	<u>GCH77085</u>	Lab Sample ID:	<u>CH77086</u>	
Canister:	<u>28605</u>	Lab File ID:	<u>0312_07.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-VMS</u>	Date Received: <u>03/11/21</u>
Purge Volume	<u>200</u> (cc)			Date Analyzed: <u>03/12/21</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
75-71-8	Dichlorodifluoromethane	0.267		0.200	0.200	r
74-87-3	Chloromethane	0.200	U	0.200	0.200	r
75-00-3	Chloroethane	0.200	U	0.200	0.200	r
75-09-2	Methylene Chloride	0.500	U	0.500	0.500	r
10061-02-6	trans-1,3-Dichloropropene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
75-01-4	Vinyl Chloride(sim)	0.100	U	0.100	0.100	r
74-83-9	Bromomethane(sim)	0.150	U	0.150	0.150	r
75-69-4	Trichlorofluoromethane(sim)	0.200		0.200	0.200	r
71-55-6	1,1,1-Trichloroethane(sim)	0.200	U	0.500	0.200	r
56-23-5	Carbon Tetrachloride(sim)	0.086	U	0.086	0.086	r
75-35-4	1,1-Dichloroethene(sim)	0.200	U	0.200	0.200	r
76-13-1	Trichlorotrifluoroethane(sim)	0.200	U	0.200	0.200	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
75-34-3	1,1-Dichloroethane(sim)	0.200	U	0.200	0.200	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
107-06-2	1,2-Dichloroethane(sim)	0.022	U	0.022	0.022	r
78-87-5	1,2-dichloropropane(sim)	0.027	U	0.027	0.027	r
75-27-4	Bromodichloromethane(sim)	0.020	U	0.020	0.020	r
79-01-6	Trichloroethene(sim)	0.115		0.075	0.075	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.200	U	0.200	0.200	r
79-00-5	1,1,2-Trichloroethane(sim)	0.027	U	0.027	0.027	r
124-48-1	Dibromochloromethane(sim)	0.020	U	0.020	0.020	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.020	U	0.020	0.020	r
127-18-4	Tetrachloroethene(sim)	0.200	U	0.200	0.200	r
75-25-2	Bromoform(sim)	0.200	U	0.200	0.200	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.200	U	0.500	0.200	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.020	U	0.020	0.020	r
541-73-1	1,3-Dichlorobenzene(sim)	0.100	U	0.100	0.100	r
106-46-7	1,4-Dichlorobenzene(sim)	0.080	U	0.080	0.080	r
95-50-1	1,2-Dichlorobenzene(sim)	0.100	U	0.100	0.100	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:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_07.D
 Acq On : 12 Mar 2021 1:23 pm
 Operator : Keith
 Client ID : SS-1
 Lab ID : CH77086
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 15:02:29 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration

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

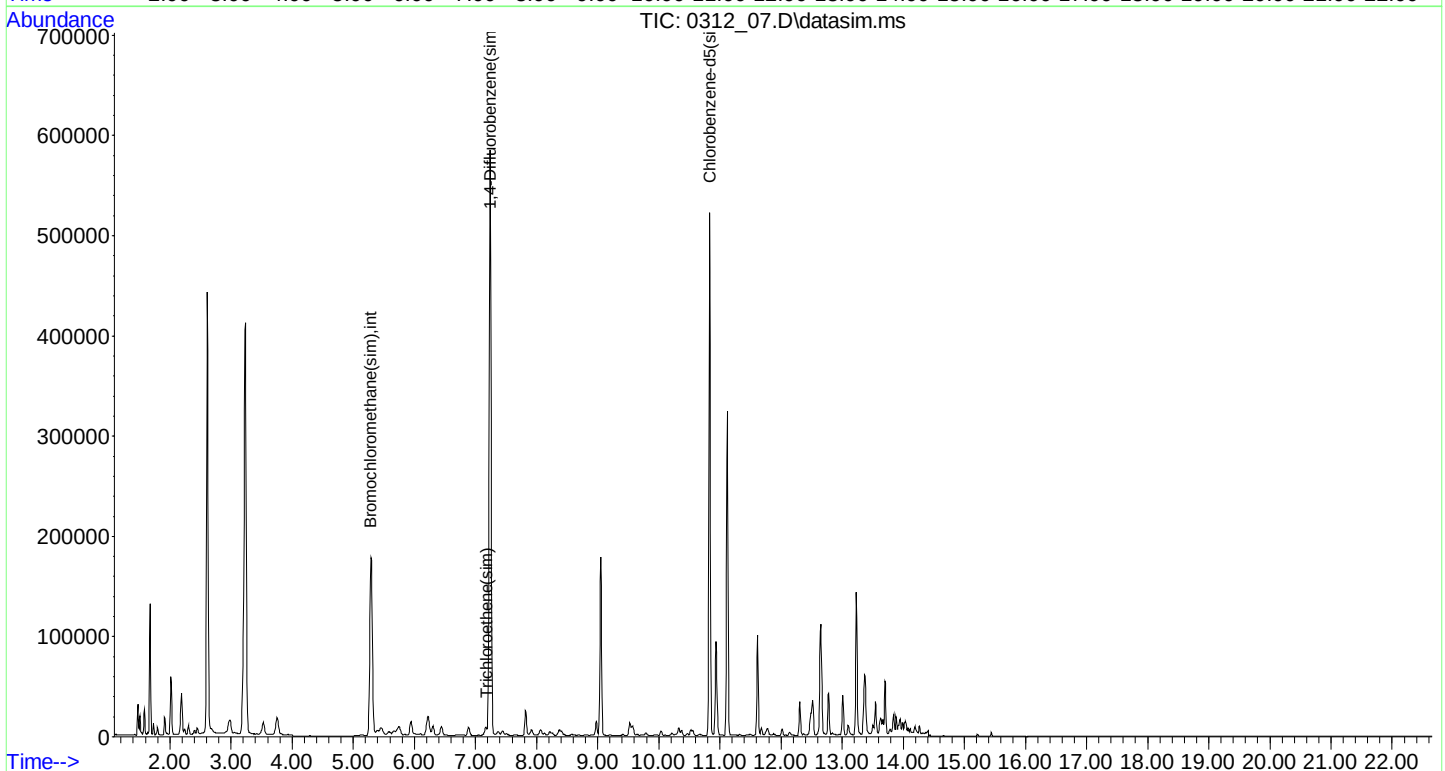
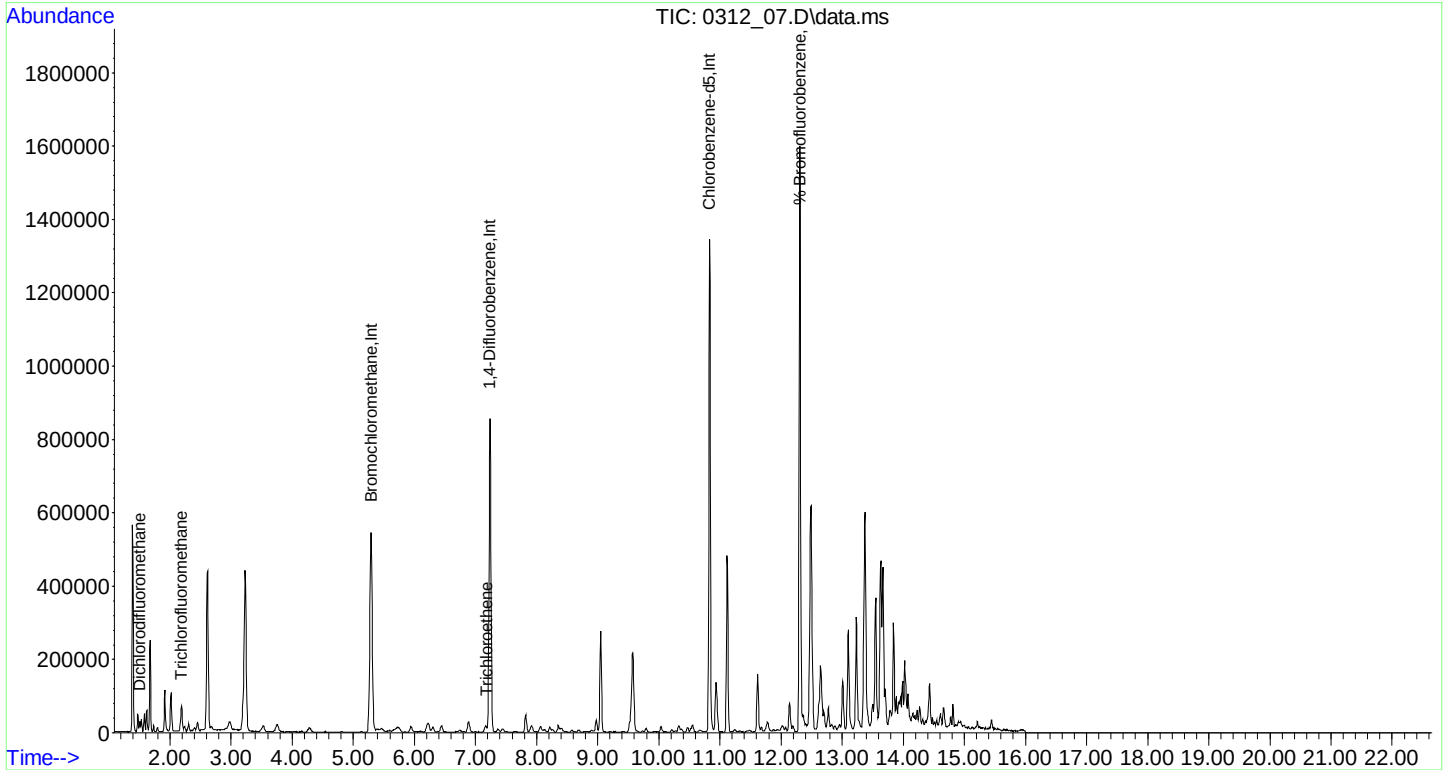
Internal Standards						
1) Bromochloromethane	5.294	130	244116	10.000	ng	0.03
36) 1,4-Difluorobenzene	7.238	114	751947	10.000	ng	0.01
53) Chlorobenzene-d5	10.830	82	341855	10.000	ng	0.01
80) Bromochloromethane(sim)	5.289	130	247193	10.000	ng	# 0.02
95) 1,4-Difluorobenzene(sim)	7.238	114	751947	10.000	ng	0.01
105) Chlorobenzene-d5(sim)	10.830	82	341855	10.000	ng	0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.310	95	477942	10.080	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.80%
Target Compounds						
3) Dichlorodifluoromethane	1.506	85	11904	0.267	ppbv	Qvalue 100
13) Trichlorofluoromethane	2.184	101	13120	0.210	ppbv#	96
39) Trichloroethene	7.177	130	3621	0.120	ppbv	99
84) Trichlorofluoromethane...	2.187	101	14028	0.200	ppbv	99
98) Trichloroethene(sim)	7.180	130	3878	0.115	ppbv	100

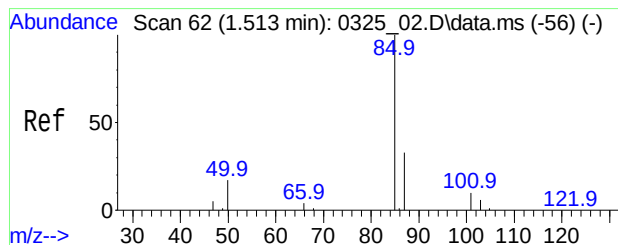
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_07.D
 Acq On : 12 Mar 2021 1:23 pm
 Operator : Keith
 Client ID : SS-1
 Lab ID : CH77086
 ALS Vial : 7 Sample Multiplier: 1

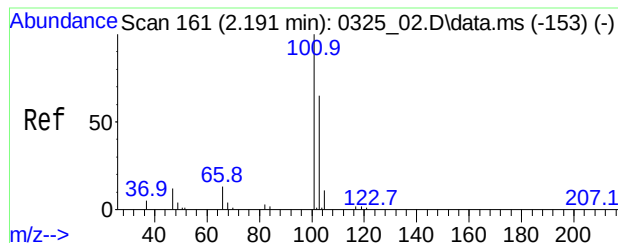
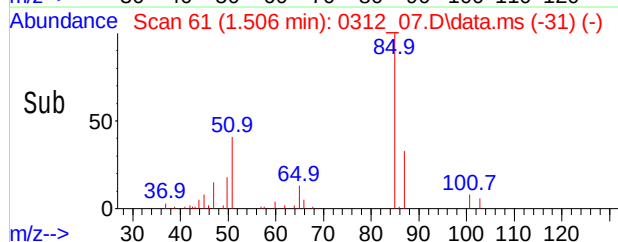
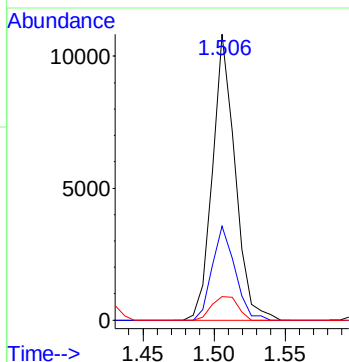
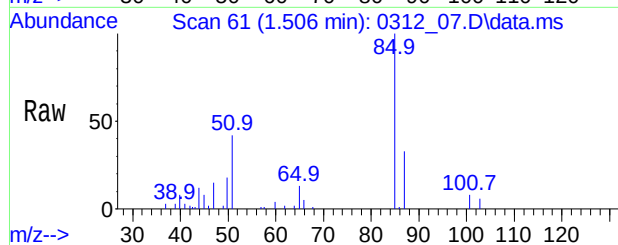
Quant Time: Mar 12 15:02:29 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration





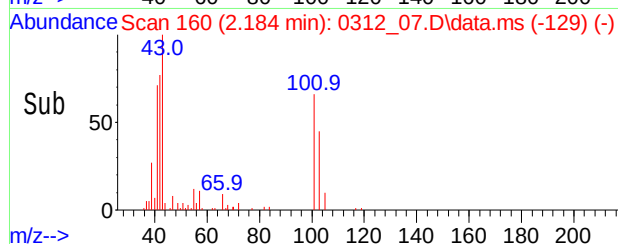
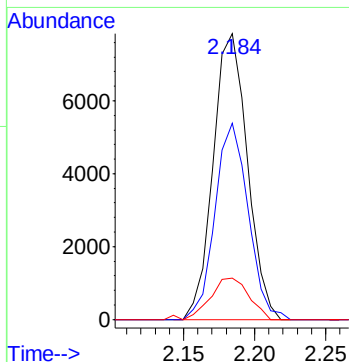
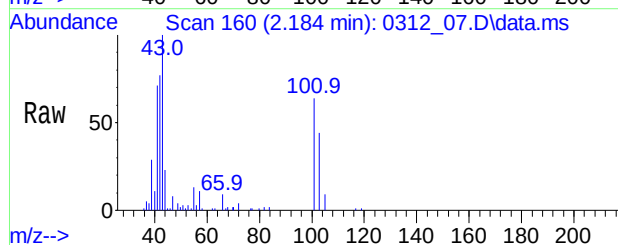
#3
Dichlorodifluoromethane
Conc: 8\$ 0.267 ppbv
RT: 1.506 min Scan# 61
Delta R.T. 0.007 min
Lab File: 0312_07.D
Acq: 12 Mar 2021 1:23 pm

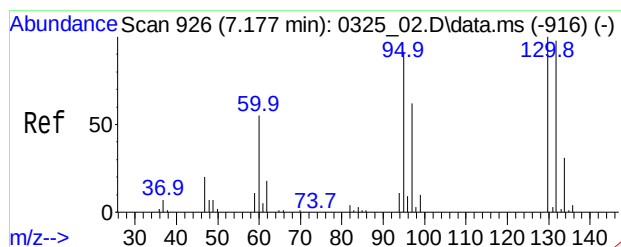
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	11904		
87	33.2	26.6	40.0	
101	9.5	7.9	11.9	



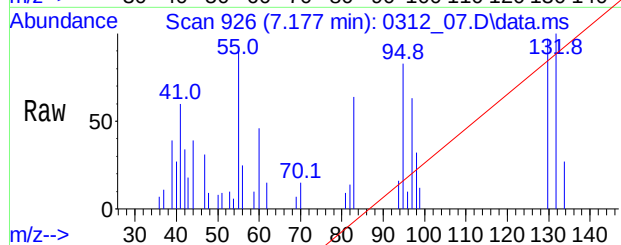
#13
Trichlorofluoromethane
Conc: 8\$ 0.210 ppbv
RT: 2.184 min Scan# 160
Delta R.T. 0.014 min
Lab File: 0312_07.D
Acq: 12 Mar 2021 1:23 pm

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	13120		
103	66.6	51.5	77.3	
66	16.5	10.6	15.8#	

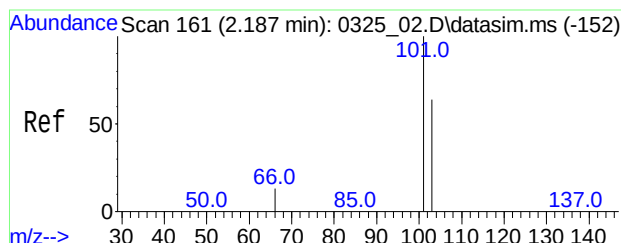
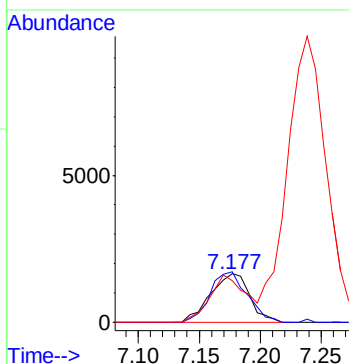
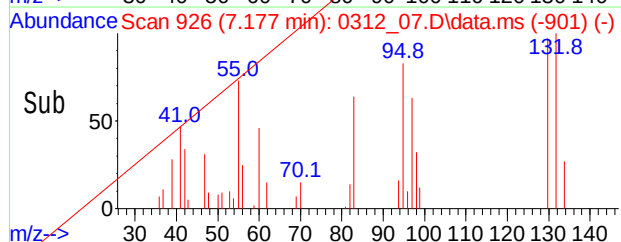




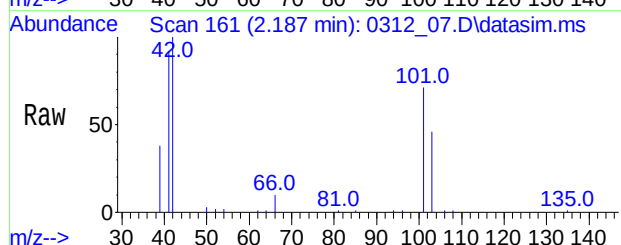
#39
 Trichloroethene
 Conc: 8\$ Below Cal
 RT: 7.177 min Scan# 926
 Delta R.T. 0.021 min
 Lab File: 0312_07.D
 Acq: 12 Mar 2021 1:23 pm



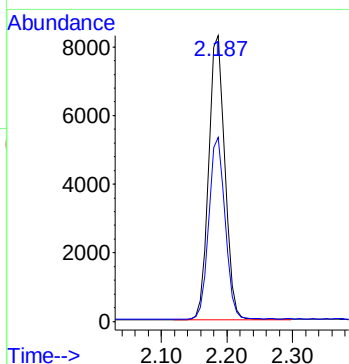
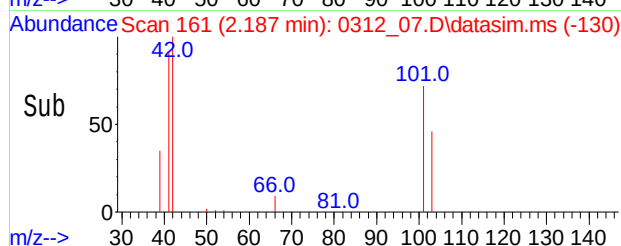
Tgt Ion: 130 Resp: 3621
 Ion Ratio Lower Upper
 130 100
 132 98.4 76.6 115.0
 95 90.3 72.3 108.5

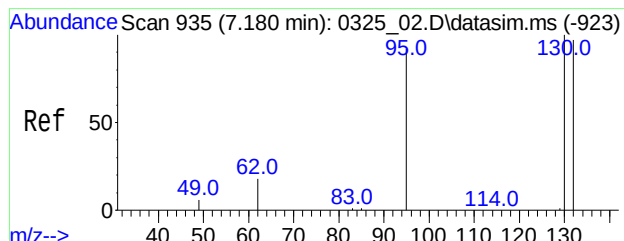


#84
 Trichlorofluoromethane(sim)
 Conc: 8\$ 0.200 ppbv
 RT: 2.187 min Scan# 161
 Delta R.T. 0.014 min
 Lab File: 0312_07.D
 Acq: 12 Mar 2021 1:23 pm



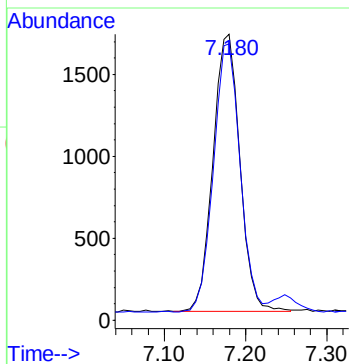
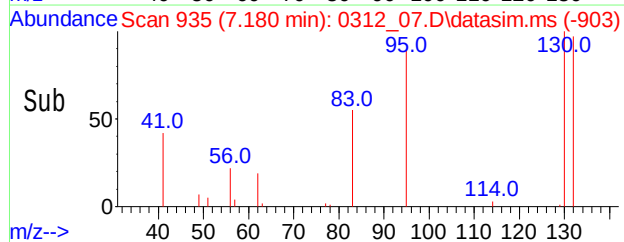
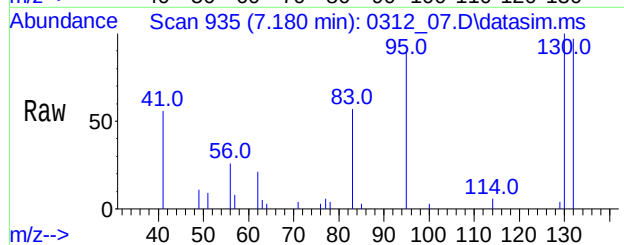
Tgt Ion: 101 Resp: 14028
 Ion Ratio Lower Upper
 101 100
 103 63.8 51.9 77.9





#98
 Trichloroethene(sim)
 Conc: 8\$ 0.115 ppbv
 RT: 7.180 min Scan# 935
 Delta R.T. 0.021 min
 Lab File: 0312_07.D
 Acq: 12 Mar 2021 1:23 pm

Tgt Ion: 130 Resp: 3878
 Ion Ratio Lower Upper
 130 100
 132 96.3 77.1 115.7



1
AIR ANALYSIS DATA SHEET

CLIENT ID

SS-2

Client: ECMS Lab: Phoenix Env. Labs

SDG No.: GCH77085 Lab Sample ID: CH77087

Canister: 21341 Lab File ID: 0312_09.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 03/11/21

Purge Volume 200 (cc) Date Analyzed: 03/12/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.280		0.200	0.200	r
74-87-3	Chloromethane	0.200	U	0.200	0.200	r
75-00-3	Chloroethane	0.200	U	0.200	0.200	r
75-69-4	Trichlorofluoromethane	0.222		0.200	0.200	r
75-09-2	Methylene Chloride	0.500	U	0.500	0.500	r
10061-02-6	trans-1,3-Dichloropropene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
75-01-4	Vinyl Chloride(sim)	0.100	U	0.100	0.100	r
74-83-9	Bromomethane(sim)	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane(sim)	0.200	U	0.500	0.200	r
56-23-5	Carbon Tetrachloride(sim)	0.086	U	0.086	0.086	r
75-35-4	1,1-Dichloroethene(sim)	0.200	U	0.200	0.200	r
76-13-1	Trichlorotrifluoroethane(sim)	0.200	U	0.200	0.200	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
75-34-3	1,1-Dichloroethane(sim)	0.200	U	0.200	0.200	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
107-06-2	1,2-Dichloroethane(sim)	0.022	U	0.022	0.022	r
78-87-5	1,2-dichloropropane(sim)	0.027	U	0.027	0.027	r
75-27-4	Bromodichloromethane(sim)	0.020	U	0.020	0.020	r
79-01-6	Trichloroethene(sim)	0.075	U	0.075	0.075	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.200	U	0.200	0.200	r
79-00-5	1,1,2-Trichloroethane(sim)	0.027	U	0.027	0.027	r
124-48-1	Dibromochloromethane(sim)	0.020	U	0.020	0.020	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.020	U	0.020	0.020	r
127-18-4	Tetrachloroethene(sim)	0.200	U	0.200	0.200	r
75-25-2	Bromoform(sim)	0.200	U	0.200	0.200	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.200	U	0.500	0.200	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.020	U	0.020	0.020	r
541-73-1	1,3-Dichlorobenzene(sim)	0.100	U	0.100	0.100	r
106-46-7	1,4-Dichlorobenzene(sim)	0.080	U	0.080	0.080	r
95-50-1	1,2-Dichlorobenzene(sim)	0.100	U	0.100	0.100	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:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_09.D
 Acq On : 12 Mar 2021 2:33 pm
 Operator : Keith
 Client ID : SS-2
 Lab ID : CH77087
 ALS Vial : 9 Sample Multiplier: 1

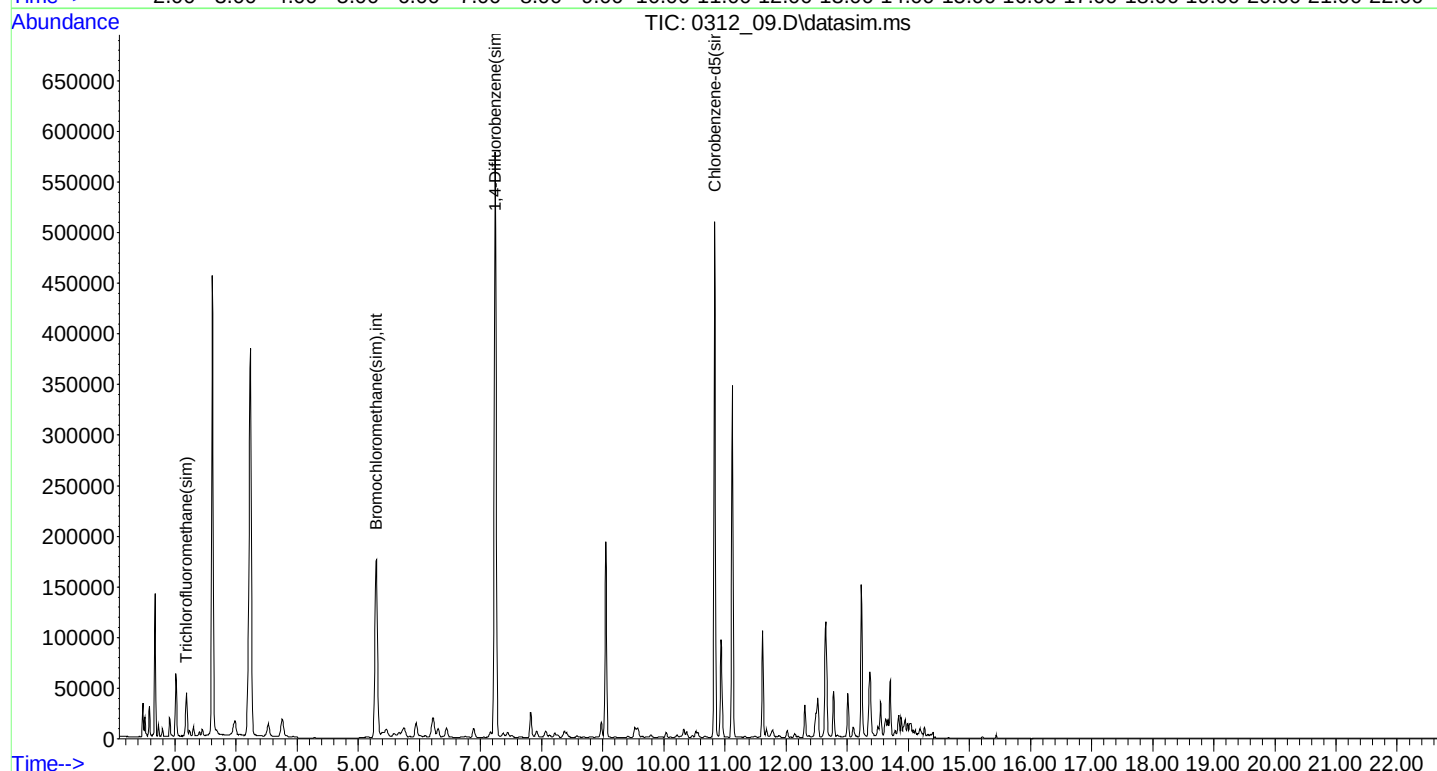
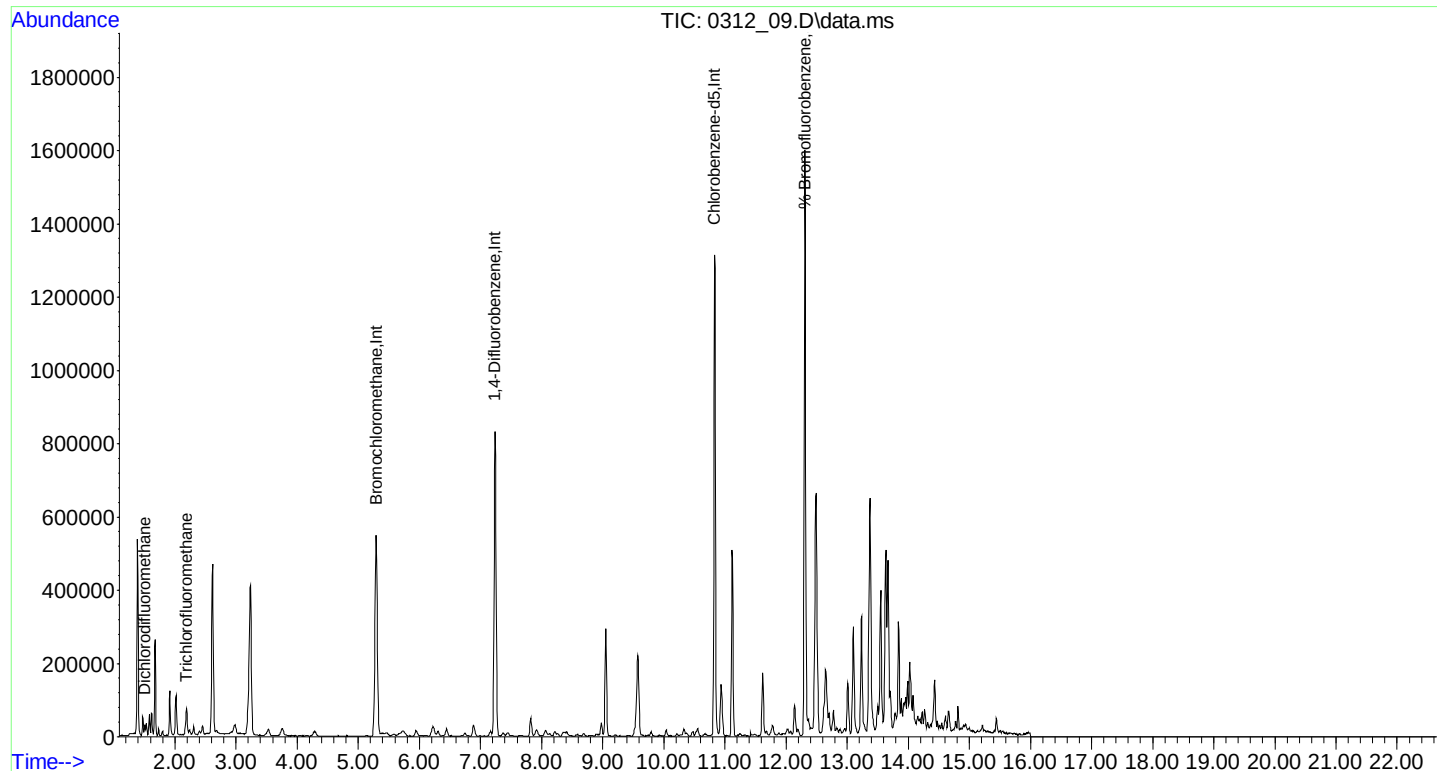
Quant Time: Mar 12 16:51:49 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration

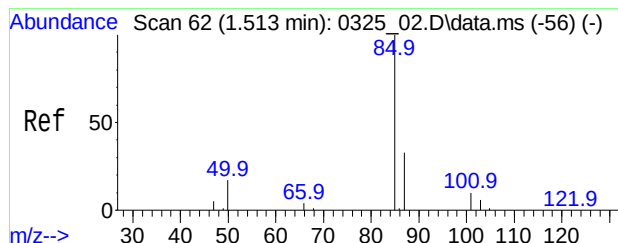
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.294	130	239202	10.000	ng	0.03
36) 1,4-Difluorobenzene	7.238	114	749130	10.000	ng	0.01
53) Chlorobenzene-d5	10.829	82	340254	10.000	ng	0.01
80) Bromochloromethane(sim)	5.296	130	245476	10.000	ng	# 0.03
95) 1,4-Difluorobenzene(sim)	7.238	114	749130	10.000	ng	0.01
105) Chlorobenzene-d5(sim)	10.829	82	340254	10.000	ng	0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.309	95	470996	9.980	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.80%
Target Compounds						
3) Dichlorodifluoromethane	1.506	85	12211	0.280	ppbv	Qvalue 100
13) Trichlorofluoromethane	2.184	101	13607	0.222	ppbv	93
84) Trichlorofluoromethane...	2.187	101	14634	0.210	ppbv	100

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

Data Path : H:\AIR2021\CHEM24\03MAR\12\
Data File : 0312_09.D
Acq On : 12 Mar 2021 2:33 pm
Operator : Keith
Client ID : SS-2
Lab ID : CH77087
ALS Vial : 9 Sample Multiplier: 1

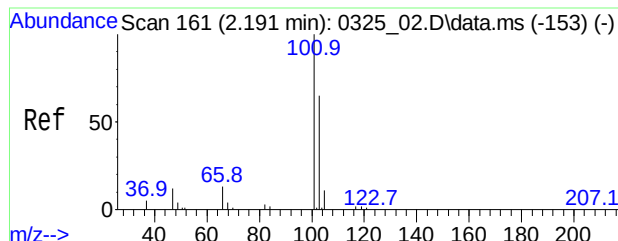
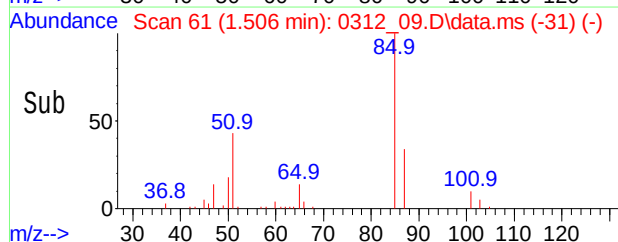
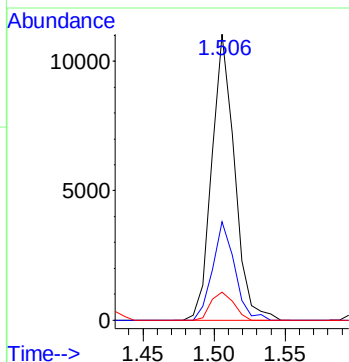
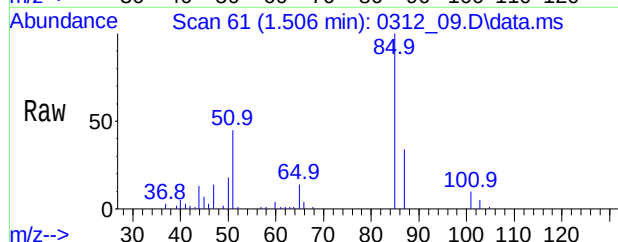
Quant Time: Mar 12 16:51:49 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration





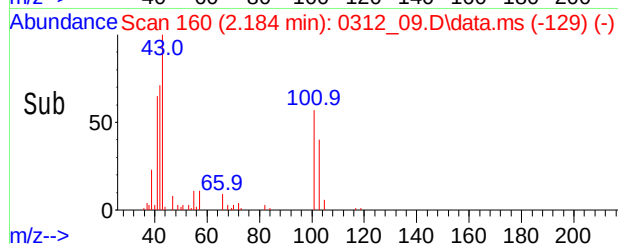
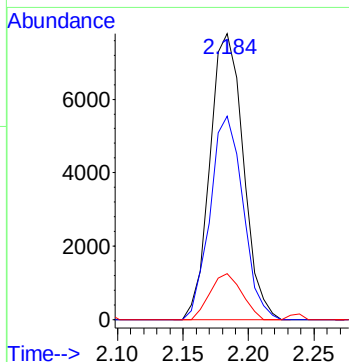
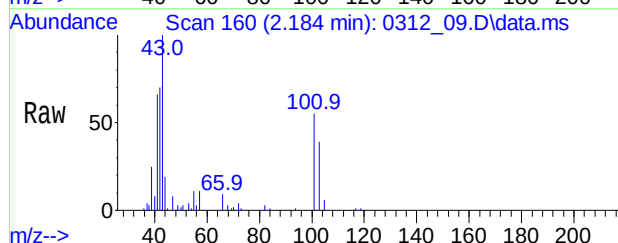
#3
Dichlorodifluoromethane
Conc: 8\$ 0.280 ppbv
RT: 1.506 min Scan# 61
Delta R.T. 0.007 min
Lab File: 0312_09.D
Acq: 12 Mar 2021 2:33 pm

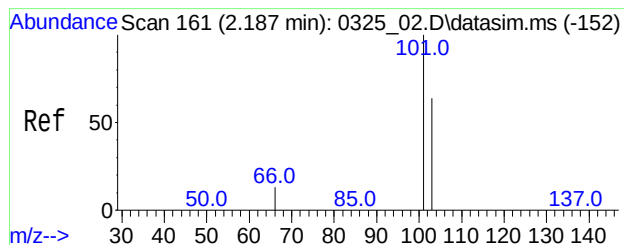
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	12211		
87	33.5	26.6	40.0	
101	9.8	7.9	11.9	



#13
Trichlorofluoromethane
Conc: 8\$ 0.222 ppbv
RT: 2.184 min Scan# 160
Delta R.T. 0.014 min
Lab File: 0312_09.D
Acq: 12 Mar 2021 2:33 pm

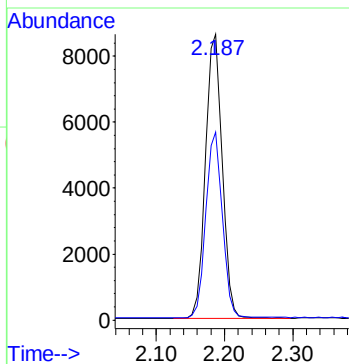
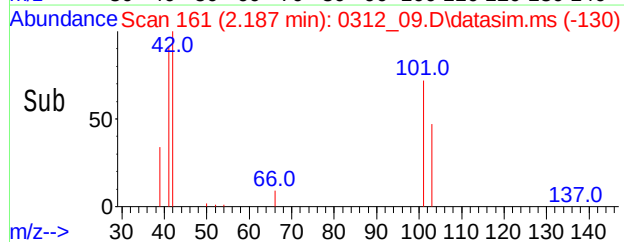
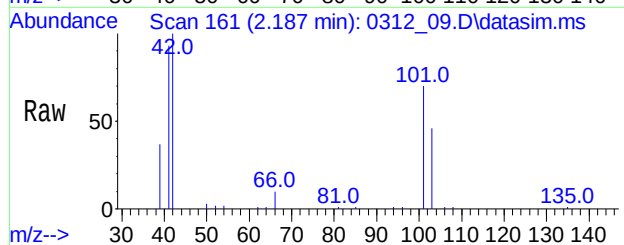
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	13607		
103	70.3	51.5	77.3	
66	15.3	10.6	15.8	





#84
 Trichlorofluoromethane(sim)
 Conc: 8\$ 0.210 ppbv
 RT: 2.187 min Scan# 161
 Delta R.T. 0.014 min
 Lab File: 0312_09.D
 Acq: 12 Mar 2021 2:33 pm

Tgt Ion: 101 Resp: 14634
 Ion Ratio Lower Upper
 101 100
 103 64.7 51.9 77.9



1
AIR ANALYSIS DATA SHEET

CLIENT ID

AA-1

Client: ECMS Lab: Phoenix Env. Labs

SDG No.: GCH77085 Lab Sample ID: CH77088

Canister: 469 Lab File ID: 0311_14.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 03/11/21

Purge Volume 200 (cc) Date Analyzed: 03/11/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.419		0.200	0.200	r
74-87-3	Chloromethane	0.540		0.200	0.200	r
75-00-3	Chloroethane	0.200	U	0.200	0.200	r
75-69-4	Trichlorofluoromethane	0.215		0.200	0.200	r
75-09-2	Methylene Chloride	0.500	U	0.500	0.500	r
10061-02-6	trans-1,3-Dichloropropene	0.200	U	0.200	0.200	r
630-20-6	1,1,1,2-Tetrachloroethane	0.200	U	0.500	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
75-01-4	Vinyl Chloride(sim)	0.100	U	0.100	0.100	r
74-83-9	Bromomethane(sim)	0.150	U	0.150	0.150	r
107-06-2	1,2-Dichloroethane(sim)	0.022	U	0.022	0.022	r
71-55-6	1,1,1-Trichloroethane(sim)	0.200	U	0.500	0.200	r
56-23-5	Carbon Tetrachloride(sim)	0.086	U	0.086	0.086	r
75-35-4	1,1-Dichloroethene(sim)	0.200	U	0.200	0.200	r
76-13-1	Trichlorotrifluoroethane(sim)	0.200	U	0.200	0.200	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
75-34-3	1,1-Dichloroethane(sim)	0.200	U	0.200	0.200	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
78-87-5	1,2-dichloropropane(sim)	0.027	U	0.027	0.027	r
75-27-4	Bromodichloromethane(sim)	0.020	U	0.020	0.020	r
79-01-6	Trichloroethene(sim)	0.075	U	0.075	0.075	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.200	U	0.200	0.200	r
79-00-5	1,1,2-Trichloroethane(sim)	0.027	U	0.027	0.027	r
124-48-1	Dibromochloromethane(sim)	0.020	U	0.020	0.020	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.020	U	0.020	0.020	r
127-18-4	Tetrachloroethene(sim)	0.200	U	0.200	0.200	r
75-25-2	Bromoform(sim)	0.200	U	0.200	0.200	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.020	U	0.020	0.020	r
541-73-1	1,3-Dichlorobenzene(sim)	0.100	U	0.100	0.100	r
106-46-7	1,4-Dichlorobenzene(sim)	0.080	U	0.080	0.080	r
95-50-1	1,2-Dichlorobenzene(sim)	0.100	U	0.100	0.100	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:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_14.D
 Acq On : 11 Mar 2021 11:28 pm
 Operator :
 Client ID : AA-1
 Lab ID : CH77088
 ALS Vial : 13 Sample Multiplier: 1

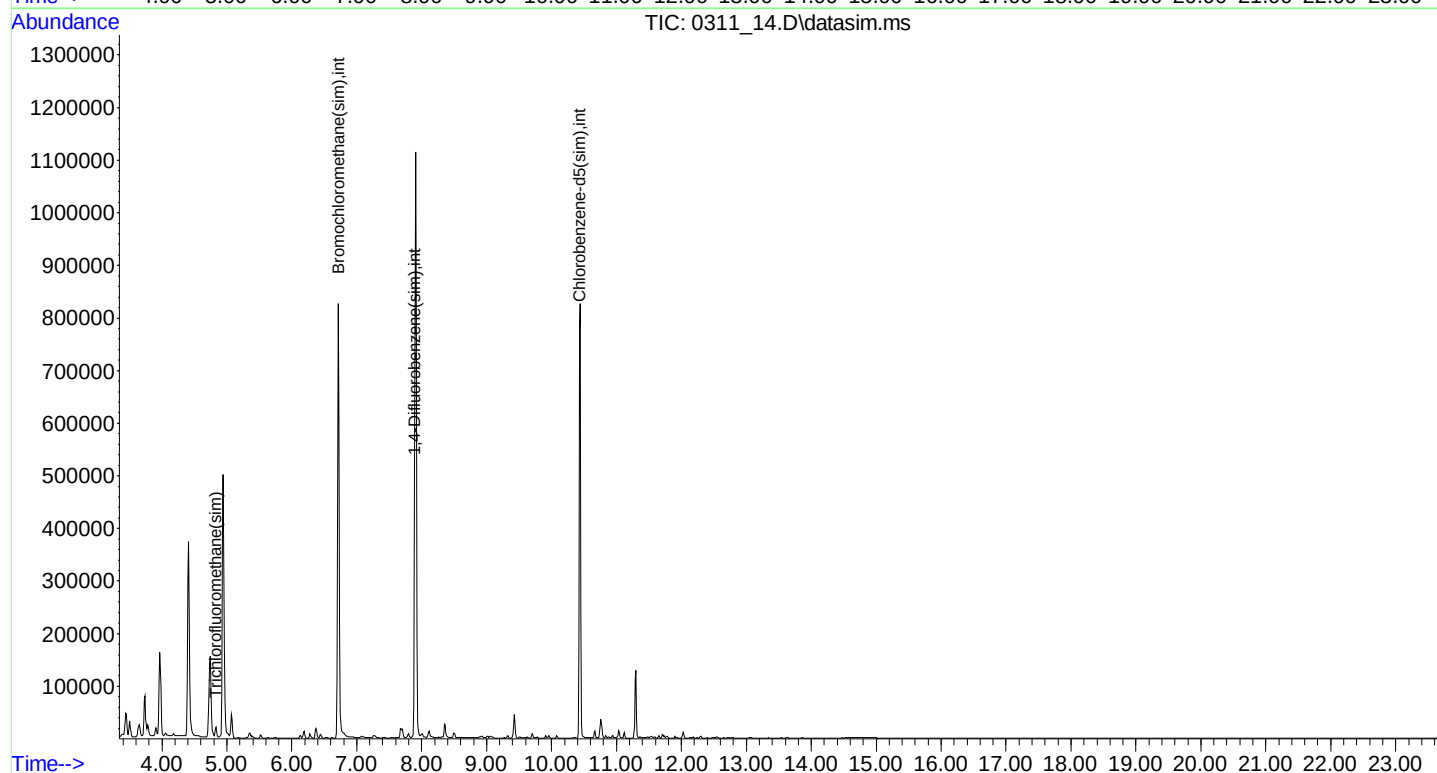
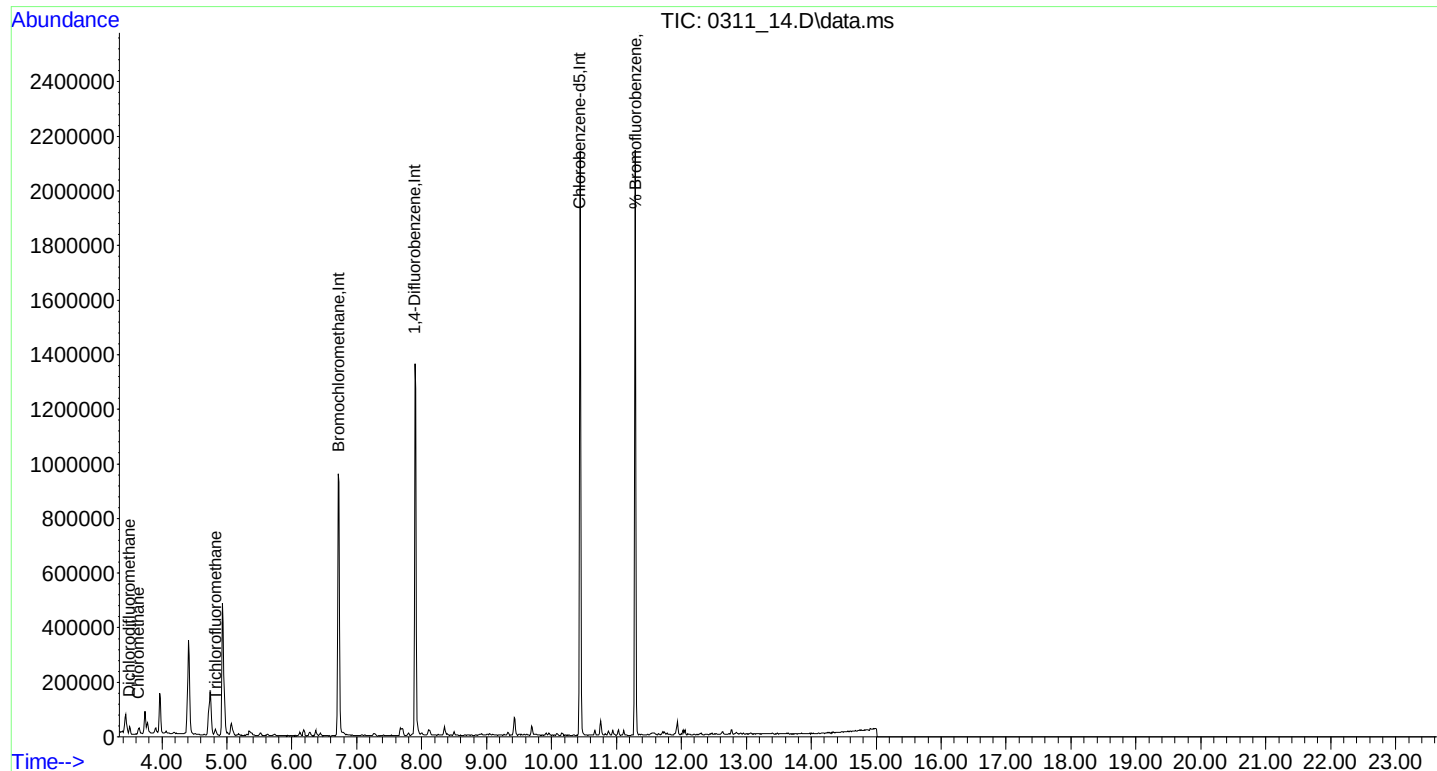
Quant Time: Mar 12 10:50:56 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 15:44:40 2021
 Response via : Initial Calibration

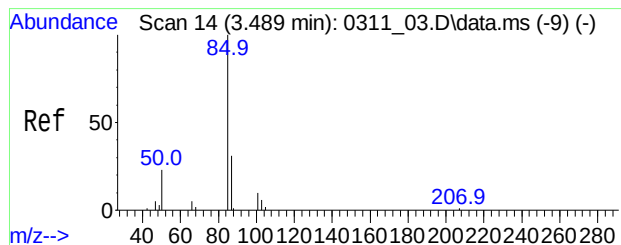
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.722	130	231594	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.897	114	887663	10.000	ng	0.00
54) Chlorobenzene-d5	10.438	82	412669	10.000	ng	0.00
81) Bromochloromethane(sim)	6.718	130	267886	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.897	114	887501	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.438	82	412669	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.288	95	489496	10.270	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.70%
Target Compounds						
3) Dichlorodifluoromethane	3.500	85	24445	0.419	ppbv	Qvalue 96
4) Chloromethane	3.640	50	24244	0.540	ppbv	88
13) Trichlorofluoromethane	4.825	101	15589	0.214	ppbv	98
32) 1,2-Dichloroethane	7.254	62	804	0.018	ppbv#	64
85) Trichlorofluoromethane...	4.831	101	16937	0.204	ppbv#	98
86) 1,2-Dichloroethane(sim)	7.254	62	804	0.018	ppbv#	64

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

Data Path : H:\AIR2021\CHEM20\03MAR\11\
Data File : 0311_14.D
Acq On : 11 Mar 2021 11:28 pm
Operator :
Client ID : AA-1
Lab ID : CH77088
ALS Vial : 13 Sample Multiplier: 1

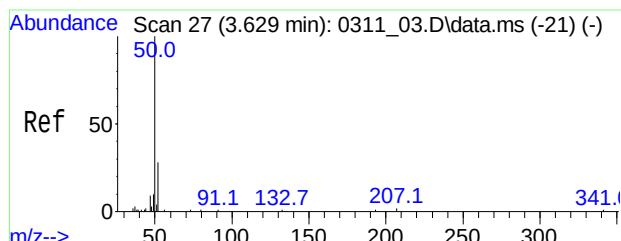
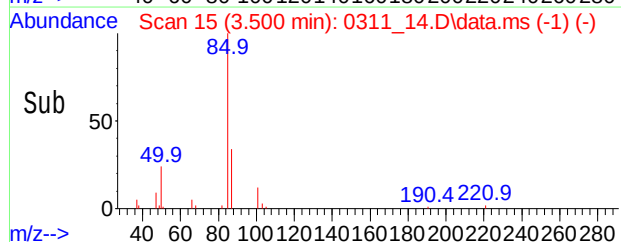
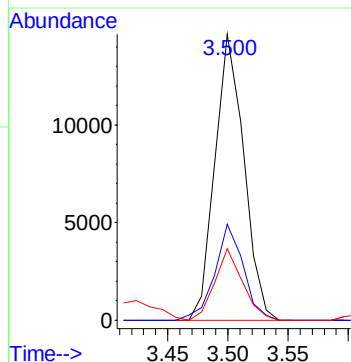
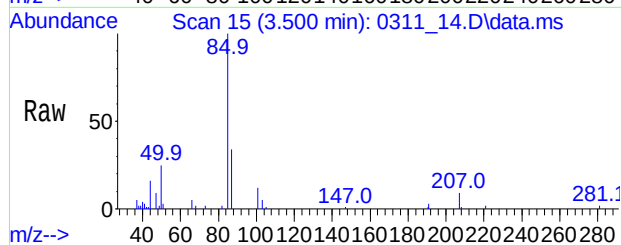
Quant Time: Mar 12 10:50:56 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 09 15:44:40 2021
Response via : Initial Calibration





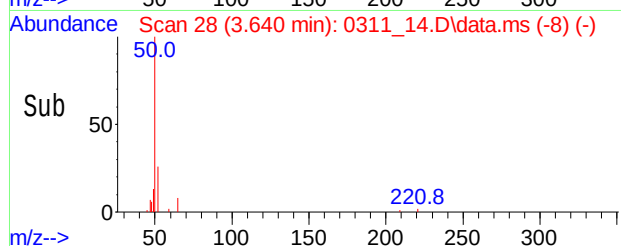
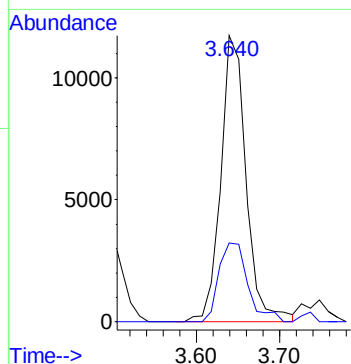
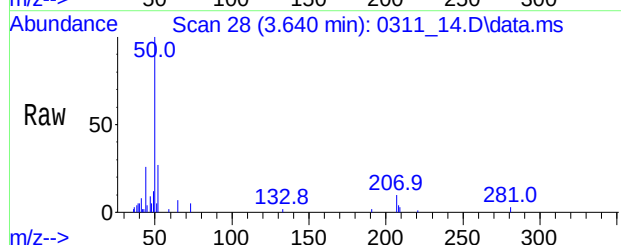
#3
Dichlorodifluoromethane
Conc: 8\$ 0.419 ppbv
RT: 3.500 min Scan# 15
Delta R.T. 0.011 min
Lab File: 0311_14.D
Acq: 11 Mar 2021 11:28 pm

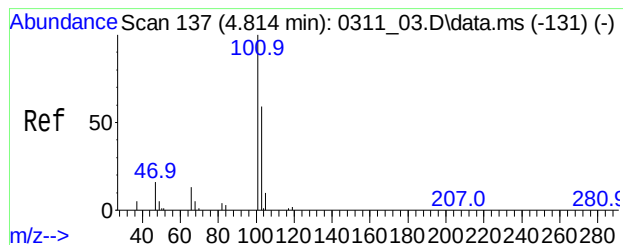
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	24445		
87	33.0	25.6	38.4	
50	24.2	16.7	25.1	



#4
Chloromethane
Conc: 8\$ 0.540 ppbv
RT: 3.640 min Scan# 28
Delta R.T. 0.011 min
Lab File: 0311_14.D
Acq: 11 Mar 2021 11:28 pm

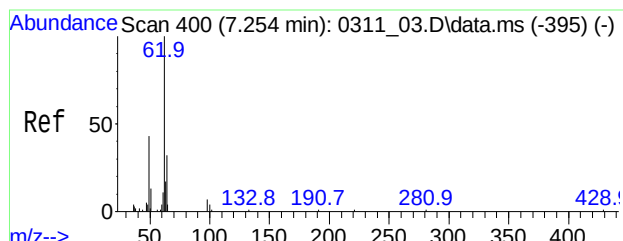
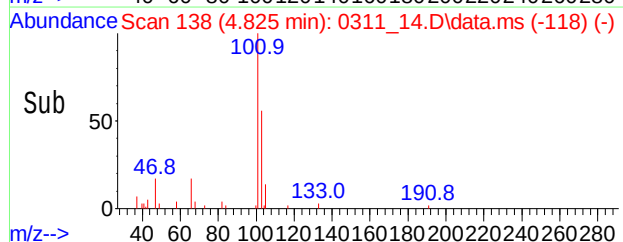
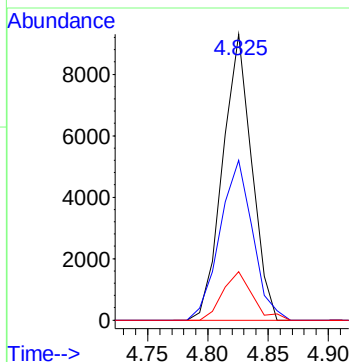
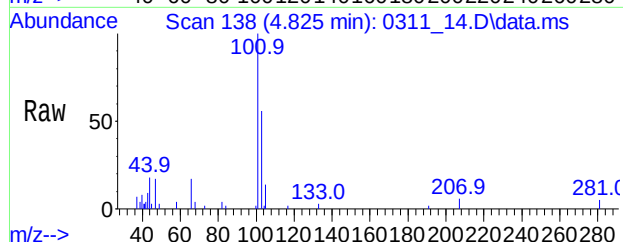
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	24244		
52	31.6	19.1	59.1	





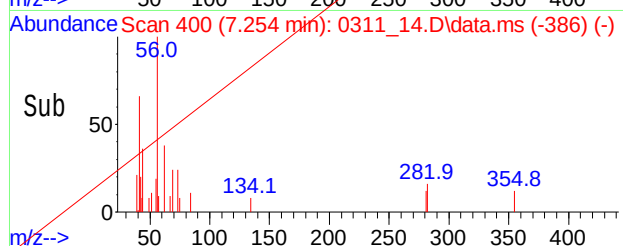
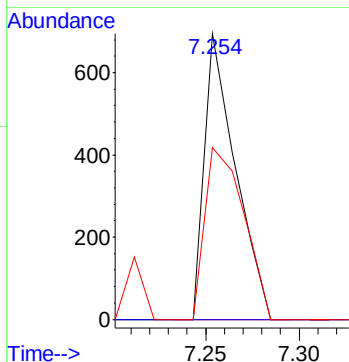
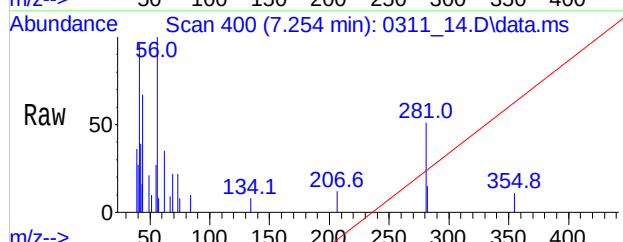
#13
Trichlorofluoromethane
Conc: 8\$ 0.214 ppbv
RT: 4.825 min Scan# 138
Delta R.T. 0.011 min
Lab File: 0311_14.D
Acq: 11 Mar 2021 11:28 pm

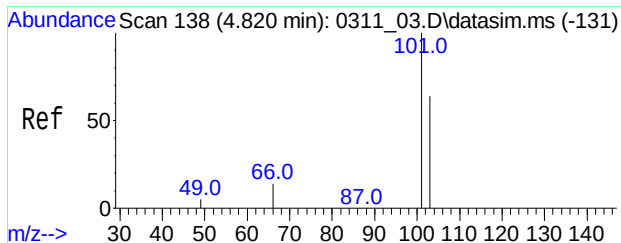
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	15589		
103	63.1	49.3	73.9	
66	17.3	12.3	18.5	



#32
1,2-Dichloroethane
Conc: 8\$ Below Cal
RT: 7.254 min Scan# 400
Delta R.T. -0.002 min
Lab File: 0311_14.D
Acq: 11 Mar 2021 11:28 pm

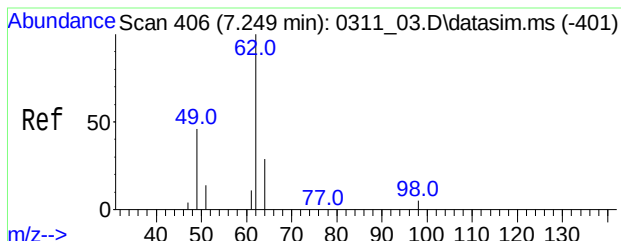
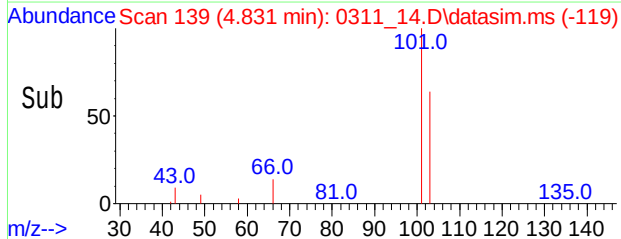
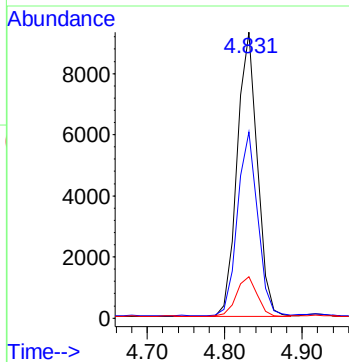
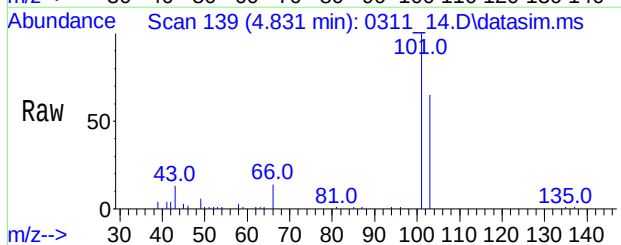
Tgt Ion	Ratio	Resp	Lower	Upper
62	100	804		
64	0.0	27.4	41.2#	
49	75.4	47.4	71.0#	





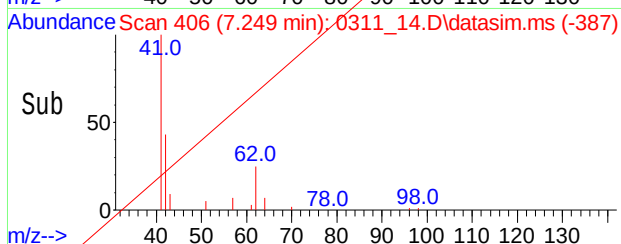
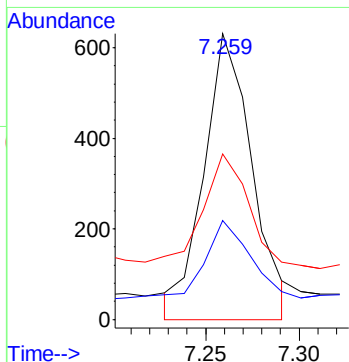
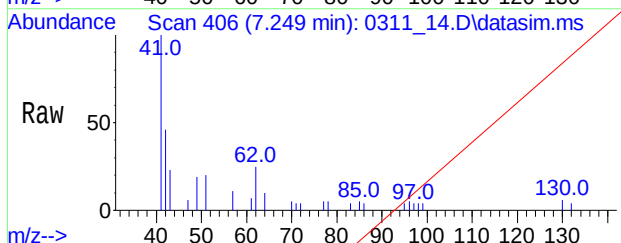
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.204 ppbv
RT: 4.831 min Scan# 139
Delta R.T. 0.011 min
Lab File: 0311_14.D
Acq: 11 Mar 2021 11:28 pm

Tgt Ion: 101 Resp: 16937
Ion Ratio Lower Upper
101 100
103 64.5 50.5 75.7
66 14.4 16.5 16.5#



#86
1,2-Dichloroethane(sim)
Conc: 8\$ Below Cal
RT: 7.254 min Scan# 406
Delta R.T. -0.002 min
Lab File: 0311_14.D
Acq: 11 Mar 2021 11:28 pm

Tgt Ion: 62 Resp: 804
Ion Ratio Lower Upper
62 100
64 0.0 27.4 41.2#
49 75.4 47.4 71.0#



Response Factor Report CHEM20

Method Path : H:\AIR2021\CHEM20\METHODS\
 Method File : 20_AIR_0308.M
 Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 15:44:40 2021
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,q,qf) display calculated conc and corr. coefficient.)

0.035=0308_05.D 0.05=0308_06.D 0.10=0308_07.D 0.2=0308_08.D 0.5=0308_09.D 1.0=0308_15.D 2.5=0308_10.D 5.0=0308_11.D
 10=0308_16.D 25=0308_12.D 40=0308_13.D 0.02=0308_04.D

	Compound	.035	0.05	0.10	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	Avg	%RSD
1)	Int Bromochloromethane	-----ISTD-----													
3)	Dichlorodifluo...				2.671	2.361	2.638	2.278	2.936	2.674	2.602	2.003		2.520	11.53
4)	Chloromethane				2.140	2.065	1.883	1.862	2.022	1.874	1.853	1.819		1.940	6.11
6)	Vinyl Chloride				1.480	1.254	1.301	1.284	1.446	1.329	1.318	1.373		1.348	5.87
8)	Bromomethane				1.038	0.931	0.912	0.927	0.976	0.920	0.904	0.951		0.945	4.67
9)	Chloroethane				0.681	0.619	0.628	0.630	0.688	0.635	0.612	0.644		0.642	4.35
13)	Trichlorofluor...				3.008	3.252	3.097	3.015	3.355	3.179	3.034	3.169		3.139	3.94
16)	1,1-Dichloroet...				2.434	2.212	2.388	2.237	2.474	2.442	2.388	2.439		2.377	4.14
17)	Methylene Chlo...				2.807	2.422	2.567	2.623	2.650	2.621	2.491	2.599		2.597	4.38
21)	Trichlorotrifl...				2.293	2.150	2.206	2.144	2.340	2.233	2.186	2.253		2.226	3.07
22)	Trans-1,2-Dich...				1.794	1.675	1.870	1.731	2.002	2.013	1.964	2.059		1.889	7.56
23)	1,1-Dichloroet...				2.212	2.188	2.232	2.147	2.392	2.305	2.239	2.270		2.248	3.35
27)	Cis-1,2-Dichlo...					1.509	1.781	1.631	1.911	1.899	1.900	2.123		1.822	11.12
29)	Chloroform				2.369	2.172	2.133	2.207	2.406	2.328	2.291	2.328		2.279	4.30
32)	1,2-Dichloroet...				1.773	1.814	1.862	1.818	2.006	1.993	1.933	1.999		1.900	4.97
33)	1,1,1-Trichlor...				2.371	2.304	2.312	2.272	2.566	2.473	2.417	2.506		2.403	4.41
35)	Carbon Tetrach...				2.459	2.456	2.556	2.437	2.756	2.751	2.683	2.789		2.611	5.76
37)	Int 1,4-Difluorobenzene	-----ISTD-----													
38)	1,2-dichloropr...				0.404	0.363	0.375	0.351	0.404	0.393	0.392	0.392		0.384	5.01
39)	Bromodichlorom...				0.667	0.656	0.615	0.633	0.698	0.692	0.692	0.700		0.669	4.83
40)	Trichloroethene				0.340	0.340	0.372	0.366	0.412	0.402	0.388	0.384		0.375	7.03
45)	cis-1,3-Dichlo...				0.410	0.406	0.435	0.412	0.496	0.505	0.513	0.516		0.462	10.86
47)	trans-1,3-Dich...				0.416	0.433	0.507	0.443	0.539	0.531	0.556	0.557		0.498	11.68
48)	1,1,2-Trichlor...				0.325	0.332	0.319	0.328	0.365	0.355	0.349	0.351		0.340	4.87
50)	Dibromochlorom...				0.619	0.601	0.605	0.604	0.682	0.689	0.707	0.720		0.653	7.81
52)	1,2-Dibromoeth...				0.451	0.436	0.470	0.468	0.554	0.542	0.556	0.566		0.505	10.66
53)	Tetrachloroethene				0.424	0.423	0.439	0.424	0.479	0.469	0.467	0.475		0.450	5.52
54)	Int Chlorobenzene-d5	-----ISTD-----													
55)	1,1,1,2-Tetrac...				1.051	0.947	0.968	0.936	1.009	0.936	0.830	0.762		0.930	10.05
56)	Chlorobenzene				1.757	1.633	1.679	1.569	1.740	1.614	1.424	1.316		1.591	9.61
59)	Bromoform				0.986	1.007	1.035	0.994	1.096	1.061	0.980	0.910		1.009	5.59
61)	1,1,2,2-Tetrac...				1.435	1.449	1.507	1.498	1.652	1.535	1.383	1.247		1.463	8.07
63)	Surr% Bromofluorob...				1.155	1.167	1.184	1.201	1.206	1.195	1.110	1.021		1.155	5.42
72)	1,3-Dichlorobe...				1.010	1.072	1.248	1.246	1.548	1.516	1.307	1.277		1.278	14.68
73)	1,4-Dichlorobe...				0.761	0.997	1.157	1.104	1.180	1.202	1.272	1.149		1.103	14.46
76)	1,2-Dichlorobe...				0.995	1.053	1.177	1.243	1.420	1.372	1.273	1.186		1.215	11.96
81)	int Bromochloromethane...	-----ISTD-----													
83)	Vinyl Chloride...	1.481	1.348	1.331	1.287	1.228	1.262	1.228	1.372				1.644	1.353	9.99
84)	Bromomethane(sim)	1.038	0.990	0.821	0.905	0.802	0.791	0.792	0.837				1.119	0.899	13.54

Response Factor Report CHEM20

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Method Path : H:\AIR2021\CHEM20\METHODS\
Method File : 20_AIR_0308.M
Title : VOA Standards for 5 point calibration
85) Trichlorofluor... 3.403 3.249 3.173 3.030 2.949 2.927 2.881 3.161 3.097 5.84
86) 1,2-Dichloroet... 1.792 1.614 1.524 1.545 1.562 1.614 1.554 1.721 1.682 12.88
87) 1,1,1-Trichlor... 2.474 2.422 2.349 2.282 2.196 2.261 2.174 2.429 2.401 10.60
89) Carbon Tetrach... 2.703 2.615 2.516 2.460 2.387 2.445 2.360 2.237 2.590 11.02
90) 1,1-Dichloroet... 2.740 2.222 2.131 2.121 1.904 2.071 1.911 2.122 2.874 2.233 15.36
91) Trichlorotrifl... 2.412 2.347 2.257 2.177 2.081 2.077 2.035 2.242 2.854 2.276 11.04
92) Trans-1,2-Dich... 1.700 1.444 1.514 1.564 1.442 1.622 1.479 1.718 1.804 1.587 8.25
93) 1,1-Dichloroet... 2.361 2.238 2.202 2.171 2.080 2.148 2.069 2.293 2.800 2.262 9.84
94) Cis-1,2-Dichlo... 1.499 1.677 1.479 1.386 1.300 1.544 1.393 1.639 1.587 1.501 8.34
95) Chloroform(sim) 2.442 2.283 2.200 2.179 2.064 2.111 2.061 2.288 2.739 2.263 9.56

96) int 1,4-Difluorobenzen... -----ISTD-----
97) 1,2-dichloropr... 0.511 0.475 0.446 0.422 0.401 0.409 0.399 0.454 0.591 0.456 13.71
98) Bromodichlorom... 0.773 0.765 0.719 0.667 0.657 0.614 0.633 0.698 0.941 0.719 13.90
99) Trichloroethen... 0.469 0.465 0.436 0.429 0.410 0.426 0.422 0.481 0.551 0.454 9.62
101) cis-1,3-Dichlo... 0.467 0.480 0.450 0.446 0.429 0.487 0.469 0.594 0.478 10.62
102) 1,1,2-Trichlor... 0.346 0.375 0.395 0.325 0.332 0.318 0.329 0.365 0.507 0.366 16.09
103) Dibromochlorom... 0.768 0.757 0.737 0.704 0.682 0.686 0.694 0.920 0.744 10.57
104) 1,2-Dibromoeth... 0.473 0.479 0.427 0.451 0.437 0.468 0.468 0.554 0.639 0.488 13.74
105) Tetrachloroeth... 0.578 0.556 0.530 0.521 0.497 0.522 0.505 0.571 0.697 0.554 10.40

106) int Chlorobenzene-d5(sim) -----ISTD-----
107) Bromoform(sim) 1.294 1.230 1.212 1.164 1.136 1.123 1.147 1.480 1.223 9.67
109) 1,1,2,2-Tetrac... 1.864 1.733 1.689 1.650 1.626 1.641 1.680 1.830 2.177 1.766 9.92
113) 1,3-Dichlorobe... 1.223 1.058 1.092 1.137 1.274 1.497 1.503 1.699 1.396 1.320 16.49
114) 1,4-Dichlorobe... 0.891 0.676 0.648 0.760 0.997 1.157 1.104 1.182 1.060 0.942 21.88
117) 1,2-Dichlorobe... 1.255 1.152 1.161 1.194 1.253 1.444 1.448 1.644 1.319 13.28
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( #, $, @ ) = Out of Range l = linear lf = linear(0,0) q = Quadratic qf = Quadratic(0,0)

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Response Factor Report Chem24

Method Path : H:\AIR2021\CHEM24\METHODS\
 Method File : 24AIR_0310.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:34:44 2021
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,g,qf) display calculated conc and corr. coefficient.)

.035=0310_04.D 0.05=0310_05.D 0.1=0310_06.D 0.2=0310_07.D 0.5=0310_08.D 1.0=0310_14.D 2.5=0310_09.D 5.0=0310_10.D
 10=0310_15.D 25=0310_11.D 40=0310_12.D 0.02=0310_03.D

Compound		.035	0.05	0.1	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	Avg	%RSD
1)	Int Bromochloromethane	-----ISTD-----													
3)	Dichlorodifluo...		2.102	2.002	1.826	1.961	1.656	2.342	1.782	1.512	1.252			1.826	17.85
4)	Chloromethane		1.400	1.242	1.239	1.143	1.454	1.652	1.497	1.465	1.337			1.381	11.39
6)	Vinyl Chloride		0.889	0.744	0.819	0.875	0.798	0.912	0.872	0.840	0.813			0.840	6.24
8)	Bromomethane			0.871	0.824	0.817	0.774	0.861	0.811	0.797	0.775			0.816	4.36
9)	Chloroethane		0.365	0.325	0.346	0.328	0.307	0.353	0.328	0.319	0.311			0.331	5.89
13)	Trichlorofluor...		2.691	2.633	2.656	2.439	2.535	2.795	2.509	2.495	2.322			2.564	5.61
16)	1,1-Dichloroet...		1.654	1.626	1.508	1.479	1.484	1.672	1.515	1.480	1.445			1.540	5.58
17)	Methylene Chlo...			1.712	1.501	1.613	1.607	1.780	1.622	1.572	1.314			1.590	8.80
21)	Trichlorotrifl...		1.920	1.907	1.837	1.790	1.712	1.949	1.754	1.725	1.684			1.809	5.45
22)	Trans-1,2-Dich...		1.315	1.294	1.281	1.323	1.293	1.485	1.397	1.361	1.347			1.344	4.78
23)	1,1-Dichloroet...		1.705	1.608	1.599	1.568	1.521	1.712	1.603	1.525	1.495			1.593	4.81
26)	Cis-1,2-Dichlo...		1.444	1.352	1.358	1.412	1.355	1.599	1.535	1.473	1.437			1.441	5.91
28)	Chloroform		1.887	1.894	1.915	1.912	1.836	2.103	1.916	1.860	1.789			1.901	4.56
31)	1,2-Dichloroet...		1.525	1.441	1.541	1.447	1.469	1.662	1.493	1.511	1.434			1.503	4.73
32)	1,1,1-Trichlor...		1.989	2.087	2.169	2.054	2.034	2.286	2.099	2.050	1.980			2.083	4.58
34)	Carbon Tetrach...		2.622	2.379	2.341	2.272	2.279	2.596	2.383	2.359	2.258			2.388	5.60
36)	Int 1,4-Difluorobenzene	-----ISTD-----													
37)	1,2-dichloropr...		0.320	0.308	0.306	0.311	0.290	0.345	0.321	0.320	0.322			0.316	4.69
38)	Bromodichlorom...		0.626	0.637	0.658	0.633	0.638	0.742	0.690	0.693	0.691			0.668	5.80
39)	Trichloroethene		0.403	0.375	0.391	0.390	0.369	0.438	0.417	0.414	0.420			0.402	5.59
44)	cis-1,3-Dichlo...		0.374	0.389	0.387	0.390	0.391	0.457	0.449	0.453	0.457			0.416	8.69
46)	trans-1,3-Dich...		0.363	0.354	0.364	0.393	0.412	0.482	0.454	0.459	0.471			0.417	12.18
47)	1,1,2-Trichlor...		0.381	0.348	0.341	0.343	0.333	0.383	0.360	0.359	0.367			0.357	4.91
49)	Dibromochlorom...		0.794	0.774	0.811	0.779	0.784	0.916	0.878	0.896	0.884			0.835	6.84
51)	1,2-Dibromoeth...		0.579	0.551	0.594	0.590	0.602	0.696	0.663	0.668	0.675			0.624	8.23
52)	Tetrachloroethene		0.506	0.471	0.481	0.460	0.461	0.519	0.495	0.497	0.500			0.488	4.27
53)	Int Chlorobenzene-d5	-----ISTD-----													
54)	1,1,1,2-Tetrac...		1.117	1.081	1.108	1.064	1.081	1.226	1.148	1.165	1.140			1.126	4.50
55)	Chlorobenzene		1.817	1.654	1.641	1.660	1.637	1.862	1.757	1.719	1.708			1.717	4.70
58)	Bromoform		1.579	1.431	1.513	1.265	1.330	1.685	1.628	1.680	1.668			1.531	10.27
60)	1,1,2,2-Tetrac...		1.627	1.496	1.622	1.569	1.587	1.792	1.702	1.723	1.677			1.644	5.44
62)	Surr% Bromofluorob...		1.391	1.361	1.377	1.370	1.389	1.402	1.382	1.440	1.370			1.387	1.71
71)	1,3-Dichlorobe...		1.364	1.379	1.491	1.436	1.537	1.850	1.736	1.786	1.699			1.586	11.59
72)	1,4-Dichlorobe...		1.243	1.206	1.379	1.345	1.425	1.766	1.652	1.705	1.635			1.484	14.07
75)	1,2-Dichlorobe...		1.114	1.044	1.211	1.102	1.250	1.472	1.391	1.450	1.358			1.266	12.59
80)	int Bromochloromethane...	-----ISTD-----													
82)	Vinyl Chloride...	0.992	0.998	0.901	0.865	0.873	0.891	0.840	0.958					0.915	6.57
83)	Bromomethane(sim)	1.010	1.103	0.923	0.840	0.792	0.793	0.747	0.825				1.152	0.909	16.13

Response Factor Report Chem24

Method Path : H:\AIR2021\CHEM24\METHODS\ Method File : 24AIR_0310.M Title : VOA Standards for 5 point calibration												
84)	Trichlorofluor...	3.072	3.016	2.718	2.688	2.635	2.500	2.550	2.816	3.599	2.844	12.06
85)	1,1,1-Trichlor...	2.266	2.319	1.905	1.965	2.070	1.994	1.963	2.190	2.301	2.108	7.70
87)	Carbon Tetrach...	2.879	2.414	2.458	2.293	2.249	2.204	2.200	2.486	2.708	2.432	9.62
88)	1,1-Dichloroet...	1.884	1.789	1.652	1.619	1.592	1.556	1.538	1.715	2.188	1.726	11.97
89)	Trichlorotrifl...	2.218	1.845	1.839	1.776	1.765	1.734	1.652	1.864	2.284	1.886	11.52
90)	Trans-1,2-Dich...	1.631	1.561	1.424	1.393	1.372	1.407	1.348	1.537	1.725	1.489	8.80
91)	1,1-Dichloroet...	2.024	1.869	1.633	1.550	1.535	1.521	1.468	1.640	2.178	1.713	14.65
92)	Cis-1,2-Dichlo...	1.620	1.597	1.301	1.400	1.410	1.463	1.426	1.641	1.742	1.511	9.53
93)	Chloroform(sim)	2.240	1.862	1.807	1.826	1.843	1.856	1.772	2.013	2.570	1.977	13.41
94)	1,2-Dichloroet...	1.827	1.708	1.586	1.569	1.553	1.518	1.525	1.726	2.092	1.678	11.19
95)	int 1,4-Difluorobenzen...	-----ISTD-----										
96)	1,2-dichloropr...	0.413	0.381	0.349	0.330	0.334	0.339	0.321	0.371	0.443	0.365	11.37
97)	Bromodichlorom...	0.757	0.793	0.626	0.637	0.658	0.633	0.638	0.741	0.802	0.698	10.54
98)	Trichloroethen...	0.492	0.476	0.418	0.414	0.416	0.410	0.401	0.467	0.547	0.449	11.04
100)	cis-1,3-Dichlo...	0.445	0.442	0.418	0.404	0.415	0.439	0.431		0.531	0.441	8.93
101)	1,1,2-Trichlor...	0.378	0.367	0.381	0.351	0.341	0.343	0.333	0.383	0.478	0.373	11.70
102)	Dibromochlorom...	0.908	0.899	0.830	0.815	0.835	0.774	0.800	0.940	1.118	0.880	11.89
103)	1,2-Dibromoeth...	0.659	0.629	0.579	0.551	0.594	0.590	0.602	0.696	0.813	0.635	12.57
104)	Tetrachloroeth...	0.555	0.528	0.490	0.487	0.491	0.486	0.477	0.544	0.657	0.523	10.36
105)	int Chlorobenzene-d5(sim)	-----ISTD-----										
106)	Bromoform(sim)	1.642	1.632	1.500	1.465	1.499	1.276	1.337	1.665	2.124	1.571	15.70
107)	1,1,1,2-Tetrac...	1.263	1.146	1.135	1.081	1.102	1.061	1.081	1.226	1.432	1.170	10.23
111)	1,1,2,2-Tetrac...	1.884	1.707	1.627	1.488	1.622	1.566	1.587	1.792	2.297	1.730	14.13
115)	1,3-Dichlorobe...	1.755	1.377	1.364	1.379	1.494	1.436	1.537	1.850	2.381	1.619	20.60
116)	1,4-Dichlorobe...	1.637	1.490	1.386	1.371	1.537	1.496	1.598	1.977	2.084	1.620	15.42
119)	1,2-Dichlorobe...	1.187	1.022	1.114	1.037	1.211	1.102	1.250	1.472	1.875	1.252	21.56

(#,\$,@)=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: ECMS
 SDG No.: GCH77085
 Calibration Date From: 03/08/21 19:58
 Calibration Date Thru: 03/09/21 00:58
 Method File: 20_AIR_0308.M

Laboratory File Ids

RRF1	0308_04.D	RRF2	0308_05.D	RRF3	0308_06.D	RRF4	0308_07.D	RRF5	0308_08.D	RRF6	0308_09.D	RRF7	0308_15.D	RRF8	0308_10.D	RRF9	0308_11.D	RRF10	0308_16.D	RRF11	0308_12.D	RRF12	0308_13.D		
COMPOUND		RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	— RRF	% RSD										
Dichlorodifluoromethane						2.671	2.361	2.638	2.278	2.936	2.674	2.602	2.003	2.520	11.53										
Chloromethane						2.140	2.065	1.883	1.862	2.022	1.874	1.853	1.819	1.940	6.11										
Vinyl Chloride						1.480	1.254	1.301	1.284	1.446	1.329	1.318	1.373	1.348	5.87										
Bromomethane						1.038	0.931	0.912	0.927	0.976	0.920	0.904	0.951	0.945	4.67										
Chloroethane						0.681	0.619	0.628	0.630	0.688	0.635	0.612	0.644	0.642	4.35										
Trichlorofluoromethane						3.008	3.252	3.097	3.015	3.355	3.179	3.034	3.169	3.139	3.94										
1,1-Dichloroethene						2.434	2.212	2.388	2.237	2.474	2.442	2.388	2.439	2.377	4.14										
Methylene Chloride						2.807	2.422	2.567	2.623	2.650	2.621	2.491	2.599	2.597	4.38										
Trichlorotrifluoroethane						2.293	2.150	2.206	2.144	2.340	2.233	2.186	2.253	2.226	3.07										
Trans-1,2-Dichloroethene						1.794	1.675	1.870	1.731	2.002	2.013	1.964	2.059	1.889	7.56										
1,1-Dichloroethane						2.212	2.188	2.232	2.147	2.392	2.305	2.239	2.270	2.248	3.35										
Cis-1,2-Dichloroethene							1.509	1.781	1.631	1.911	1.899	1.900	2.123	1.822	11.12										
Chloroform						2.369	2.172	2.133	2.207	2.406	2.328	2.291	2.328	2.279	4.30										
1,2-Dichloroethane						1.773	1.814	1.862	1.818	2.006	1.993	1.933	1.999	1.900	4.97										
1,1,1-Trichloroethane						2.371	2.304	2.312	2.272	2.566	2.473	2.417	2.506	2.403	4.41										
Carbon Tetrachloride						2.459	2.456	2.556	2.437	2.756	2.751	2.683	2.789	2.611	5.76										
1,2-dichloropropane						0.404	0.363	0.375	0.351	0.404	0.393	0.392	0.392	0.384	5.01										
Bromodichloromethane						0.667	0.656	0.615	0.633	0.698	0.692	0.692	0.700	0.669	4.83										
Trichloroethene						0.340	0.340	0.372	0.366	0.412	0.402	0.388	0.384	0.375	7.03										
cis-1,3-Dichloropropene						0.410	0.406	0.435	0.412	0.496	0.505	0.513	0.516	0.462	10.86										
trans-1,3-Dichloropropene						0.416	0.433	0.507	0.443	0.539	0.531	0.556	0.557	0.498	11.68										
1,1,2-Trichloroethane						0.325	0.332	0.319	0.328	0.365	0.355	0.349	0.351	0.340	4.87										
Dibromochloromethane						0.619	0.601	0.605	0.604	0.682	0.689	0.707	0.720	0.653	7.81										
1,2-Dibromoethane(EDB)						0.451	0.436	0.470	0.468	0.554	0.542	0.556	0.566	0.505	10.66										
Tetrachloroethene						0.424	0.423	0.439	0.424	0.479	0.469	0.467	0.475	0.450	5.52										

(#) 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: ECMS
SDG No.: GCH77085
Calibration Date From: 03/08/21 19:58
Calibration Date Thru: 03/09/21 00:58
Method File: 20_AIR_0308.M

Laboratory File Ids

RRF1	0308_04.D	RRF2	0308_05.D	RRF3	0308_06.D	RRF4	0308_07.D	RRF5	0308_08.D	RRF6	0308_09.D	RRF7	0308_10.D	RRF8	0308_11.D	RRF9	0308_12.D	RRF10	0308_13.D
RRF1	0308_15.D	RRF2	0308_10.D	RRF3	0308_11.D	RRF4	0308_16.D	RRF5	0308_12.D	RRF6	0308_13.D	RRF7	0308_14.D	RRF8	0308_15.D	RRF9	0308_16.D	RRF10	0308_17.D
COMPOUND		RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	— RRF	% RSD				
1,1,1,2-Tetrachloroethane						1.051	0.947	0.968	0.936	1.009	0.936	0.830	0.762	0.930	10.05				
Chlorobenzene						1.757	1.633	1.679	1.569	1.740	1.614	1.424	1.316	1.591	9.61				
Bromoform						0.986	1.007	1.035	0.994	1.096	1.061	0.980	0.910	1.009	5.59				
1,1,2,2-Tetrachloroethane						1.435	1.449	1.507	1.498	1.652	1.535	1.383	1.247	1.463	8.07				
1,3-Dichlorobenzene						1.010	1.072	1.248	1.246	1.548	1.516	1.307	1.277	1.278	14.68				
1,4-Dichlorobenzene						0.761	0.997	1.157	1.104	1.180	1.202	1.272	1.149	1.103	14.46				
1,2-Dichlorobenzene						0.995	1.053	1.177	1.243	1.420	1.372	1.273	1.186	1.215	11.96				
Vinyl Chloride(sim)		1.644	1.481	1.348	1.331	1.287	1.228	1.262	1.228	1.372				1.353	9.99				
Bromomethane(sim)		1.119	1.038	0.990	0.821	0.905	0.802	0.791	0.792	0.837				0.899	13.54				
Trichlorofluoromethane(sim)			3.403	3.249	3.173	3.030	2.949	2.927	2.881	3.161				3.097	5.84				
1,2-Dichloroethane(sim)		2.210	1.792	1.614	1.524	1.545	1.562	1.614	1.554	1.721				1.682	12.88				
1,1,1-Trichloroethane(sim)		3.019	2.474	2.422	2.349	2.282	2.196	2.261	2.174	2.429				2.401	10.60				
Carbon Tetrachloride(sim)		3.237	2.703	2.615	2.516	2.460	2.387	2.445	2.360					2.590	11.02				
1,1-Dichloroethene(sim)		2.874	2.740	2.222	2.131	2.121	1.904	2.071	1.911	2.122				2.233	15.36				
Trichlorotrifluoroethane(sim)		2.854	2.412	2.347	2.257	2.177	2.081	2.077	2.035	2.242				2.276	11.04				
Trans-1,2-Dichloroethene(sim)		1.804	1.700	1.444	1.514	1.564	1.442	1.622	1.479	1.718				1.587	8.25				
1,1-Dichloroethane(sim)		2.800	2.361	2.238	2.202	2.171	2.080	2.148	2.069	2.293				2.262	9.84				
Cis-1,2-Dichloroethene(sim)		1.587	1.499	1.677	1.479	1.386	1.300	1.544	1.393	1.639				1.501	8.34				
Chloroform(sim)		2.739	2.442	2.283	2.200	2.179	2.064	2.111	2.061	2.288				2.263	9.56				
1,2-dichloropropane(sim)		0.591	0.511	0.475	0.446	0.422	0.401	0.409	0.399	0.454				0.456	13.71				
Bromodichloromethane(sim)		0.941	0.773	0.765	0.719	0.667	0.657	0.614	0.633	0.698				0.719	13.90				
Trichloroethene(sim)		0.551	0.469	0.465	0.436	0.429	0.410	0.426	0.422	0.481				0.454	9.62				
cis-1,3-Dichloropropene(sim)		0.594	0.467	0.480	0.450	0.446	0.429	0.487	0.469					0.478	10.62				
1,1,2-Trichloroethane(sim)		0.507	0.346	0.375	0.395	0.325	0.332	0.318	0.329	0.365				0.366	16.09				
Dibromochloromethane(sim)		0.920	0.768	0.757	0.737	0.704	0.682	0.686	0.694					0.744	10.57				

6B

Client: ECMS

SDG No.: GCH77085

Calibration Date From: 03/08/21 19:58

Calibration Date Thru: 03/09/21 00:58

Method File: 20 AIR 0308.M

RRF1	<u>0308_04.D</u>	RRF2	<u>0308_05.D</u>	RRF3	<u>0308_06.D</u>	RRF4	<u>0308_07.D</u>	RRF5	<u>0308_08.D</u>	RRF6	<u>0308_09.D</u>
RRF7	<u>0308_15.D</u>	RRF8	<u>0308_10.D</u>	RRF9	<u>0308_11.D</u>	RRF10	<u>0308_16.D</u>	RRF11	<u>0308_12.D</u>	RRF12	<u>0308_13.D</u>

[illegible]

(#) 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

Phoenix Environmental Laboratories, Inc.

Environmental Labor

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_04.D
 Acq On : 8 Mar 2021 5:33 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 15:48:34 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 14:47:12 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.725	130	287354	10.000	ng	0.01
37) 1,4-Difluorobenzene	7.911	114	1047768	10.000	ng	0.01
54) Chlorobenzene-d5	10.440	82	488994	10.000	ng	0.00
81) Bromochloromethane(sim)	6.720	130	334233	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.911	114	1046301	10.000	ng	0.01
106) Chlorobenzene-d5(sim)	10.440	82	488994	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.291	95	542719	9.609	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.10%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	3.510	85	2297	0.032	ppbv	93
4) Chloromethane	3.661	50	2464	0.044	ppbv	69
6) Vinyl Chloride	3.834	62	1001	0.026	ppbv	67
8) Bromomethane	4.157	94	701	0.026	ppbv#	39
9) Chloroethane	4.297	64	489	0.026	ppbv#	32
13) Trichlorofluoromethane	4.836	101	1989	0.022	ppbv#	73
16) 1,1-Dichloroethene	5.269	61	2071	0.030	ppbv#	73
17) Methylene Chloride	5.347	49	2199	0.029	ppbv#	85
21) Trichlorotrifluoroethane	5.511	101	1838	0.029	ppbv#	89
22) Trans-1,2-Dichloroethene	5.962	61	1206	0.022	ppbv#	70
23) 1,1-Dichloroethane	6.088	63	1564	0.024	ppbv	83
27) Cis-1,2-Dichloroethene	6.610	61	1061	0.020	ppbv#	83
29) Chloroform	6.798	83	1808	0.028	ppbv#	43
32) 1,2-Dichloroethane	7.266	62	1105	0.020	ppbv#	5
33) 1,1,1-Trichloroethane	7.423	97	2095	0.030	ppbv	94
35) Carbon Tetrachloride	7.788	117	2208	0.029	ppbv	94
38) 1,2-dichloropropane	8.212	63	1106	0.027	ppbv#	28
39) Bromodichloromethane	8.334	83	1931	0.028	ppbv	90
40) Trichloroethene	8.334	130	718	0.018	ppbv#	56
45) cis-1,3-Dichloropropene	8.858	75	998	0.021	ppbv#	76
47) trans-1,3-Dichloropropene	9.162	75	799	0.015	ppbv#	88
48) 1,1,2-Trichloroethane	9.269	97	712	0.020	ppbv#	67
50) Dibromochloromethane	9.686	129	1424	0.021	ppbv	96
52) 1,2-Dibromoethane(EDB)	9.822	107	1149	0.022	ppbv	93
53) Tetrachloroethene	10.084	166	1526	0.032	ppbv#	78
55) 1,1,1,2-Tetrachloroethane	10.450	131	1311	0.029	ppbv#	89
56) Chlorobenzene	10.471	112	2432	0.031	ppbv#	1
59) Bromoform	10.830	173	1166	0.024	ppbv#	81
61) 1,1,2,2-Tetrachloroethane	11.024	83	2167	0.030	ppbv#	78
72) 1,3-Dichlorobenzene	12.142	146	1400	0.022	ppbv#	88
73) 1,4-Dichlorobenzene	12.183	146	1026	0.019	ppbv#	80
76) 1,2-Dichlorobenzene	12.399	146	1387	0.023	ppbv	88
83) Vinyl Chloride(sim)	3.839	62	1099	0.024	ppbv	100
84) Bromomethane(sim)	4.163	94	748m	0.025	ppbv	39
85) Trichlorofluoromethane...	4.842	101	2623	0.025	ppbv#	94
86) 1,2-Dichloroethane(sim)	7.272	62	1477m	0.026	ppbv	5
87) 1,1,1-Trichloroethane(...)	7.418	97	2018	0.025	ppbv#	100
89) Carbon Tetrachloride(sim)	7.805	117	2164	0.025	ppbv	99
90) 1,1-Dichloroethene(sim)	5.266	61	1921m	0.026	ppbv	73
91) Trichlorotrifluoroetha...	5.525	101	1908	0.025	ppbv#	99
92) Trans-1,2-Dichloroethe...	5.962	61	1206	0.023	ppbv#	70
93) 1,1-Dichloroethane(sim)	6.094	63	1872	0.025	ppbv	97
94) Cis-1,2-Dichloroethene...	6.610	61	1061	0.021	ppbv#	83
95) Chloroform(sim)	6.803	83	1831	0.024	ppbv#	58

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_04.D
 Acq On : 8 Mar 2021 5:33 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 15:48:34 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 14:47:12 2021
 Response via : Initial Calibration

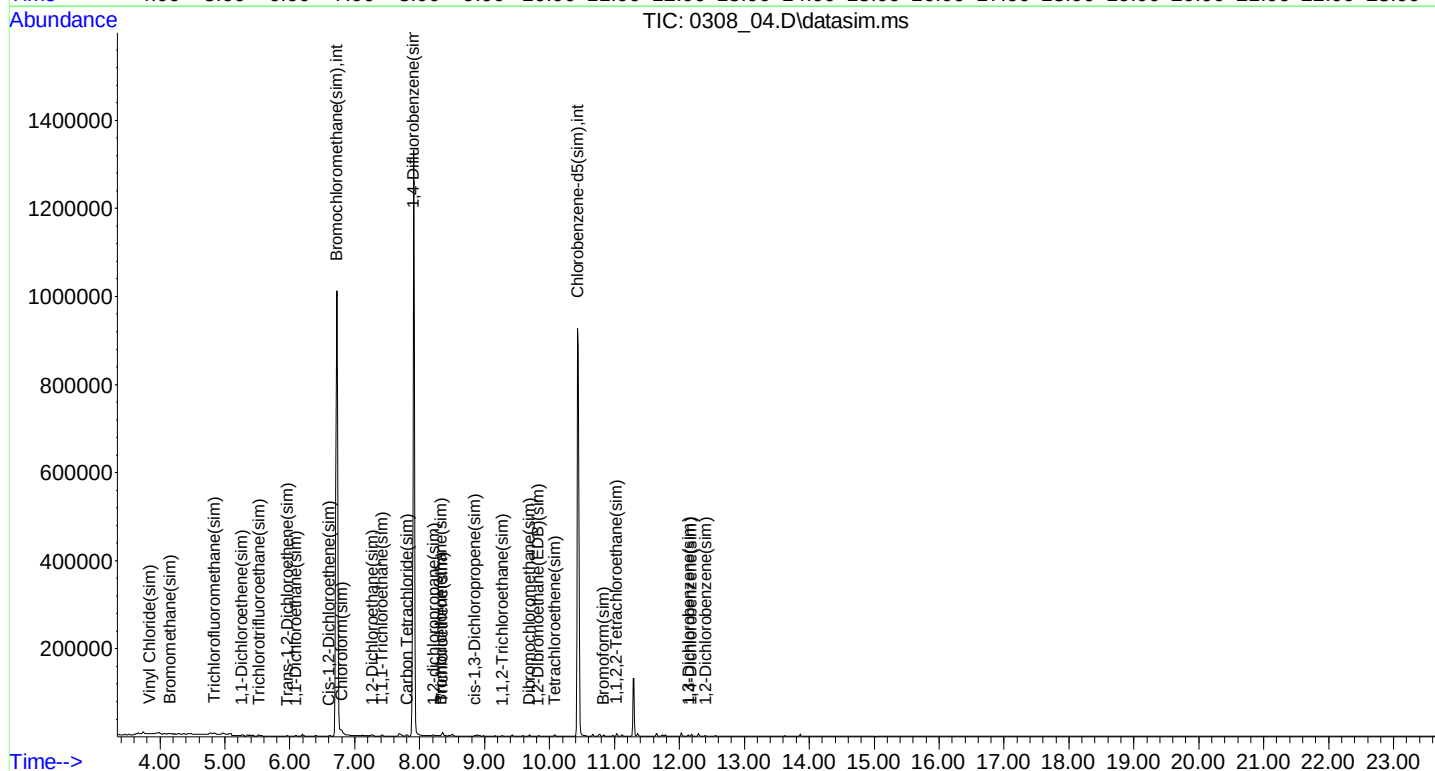
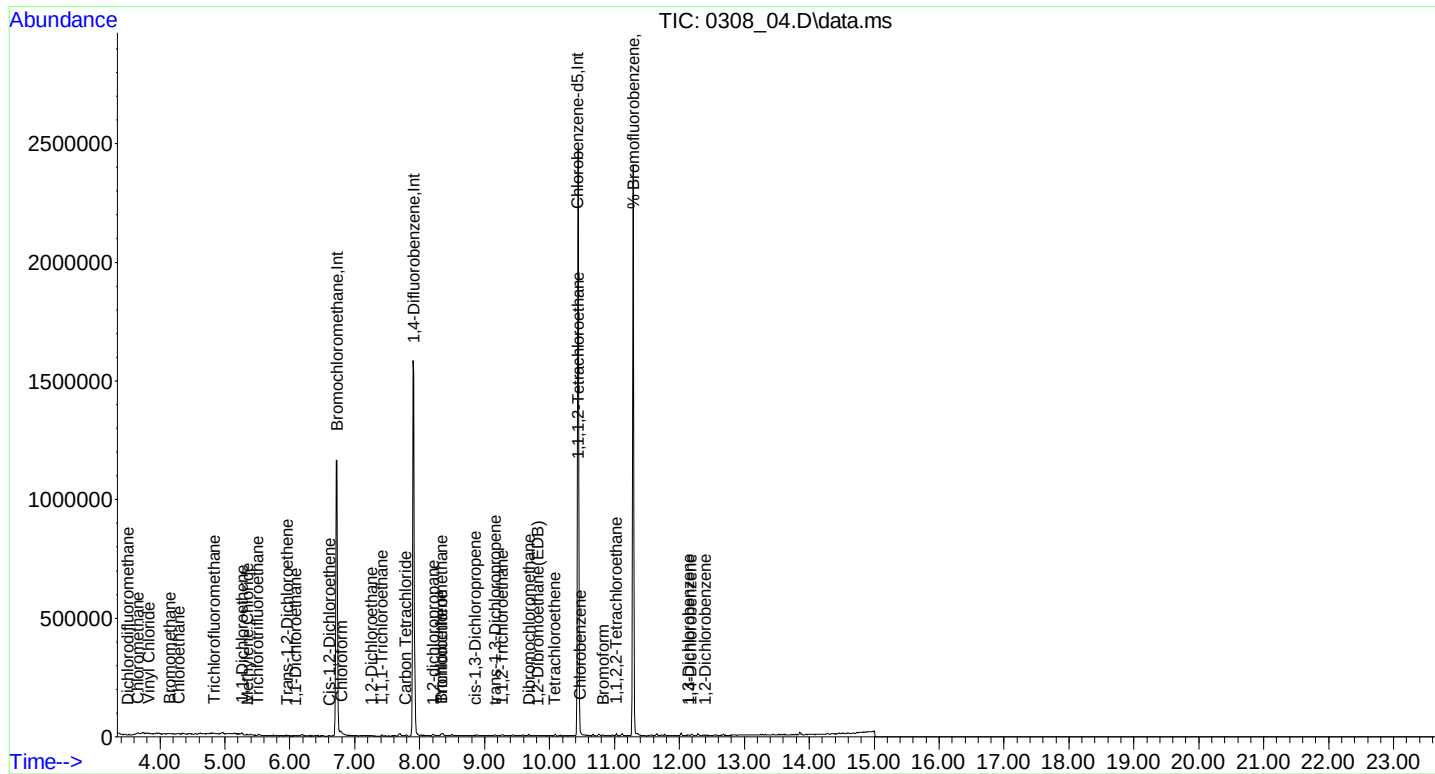
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.217	63	1237	0.026	ppbv	95
98]	Bromodichloromethane(sim)	8.329	83	1970m	0.026	ppbv	86
99]	Trichloroethene(sim)	8.351	130	1154	0.024	ppbv	98
101]	cis-1,3-Dichloropropen...	8.852	75	1243	0.025	ppbv	98
102]	1,1,2-Trichloroethane(...	9.275	97	1060m	0.028	ppbv	67
103]	Dibromochloromethane(sim)	9.692	129	1926	0.025	ppbv	99
104]	1,2-Dibromoethane(EDB)...	9.828	107	1337m	0.026	ppbv	93
105]	Tetrachloroethene(sim)	10.080	166	1459	0.025	ppbv	98
107]	Bromoform(sim)	10.835	173	1447	0.024	ppbv	95
109]	1,1,2,2-Tetrachloroeth...	11.030	83	2129	0.025	ppbv	97
113]	1,3-Dichlorobenzene(sim)	12.138	146	1365	0.021	ppbv	93
114]	1,4-Dichlorobenzene(sim)	12.179	146	1037m	0.023	ppbv	86
117]	1,2-Dichlorobenzene(sim)	12.404	146	1481	0.023	ppbv	94

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_04.D
 Acq On : 8 Mar 2021 5:33 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 09 15:48:34 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 14:47:12 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_05.D
 Acq On : 8 Mar 2021 6:09 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 15:49:29 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 09 14:48:54 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.722	130	287621	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.908	114	1057703	10.000	ng	0.00
54) Chlorobenzene-d5	10.438	82	492311	10.000	ng	0.00
81) Bromochloromethane(sim)	6.718	130	335763	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.908	114	1057102	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.438	82	492311	10.000	ng	0.00

System Monitoring Compounds

63) % Bromofluorobenzene	11.288	95	558710	9.825	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.30%

Target Compounds

						Qvalue
3) Dichlorodifluoromethane	3.510	85	3165	0.044	ppbv#	90
4) Chloromethane	3.661	50	3994	0.072	ppbv	82
6) Vinyl Chloride	3.834	62	1416	0.037	ppbv	66
8) Bromomethane	4.157	94	1157	0.043	ppbv#	89
9) Chloroethane	4.276	64	1056	0.057	ppbv	100
13) Trichlorofluoromethane	4.836	101	3565	0.039	ppbv	85
16) 1,1-Dichloroethene	5.261	61	3220	0.047	ppbv	88
17) Methylene Chloride	5.347	49	3961	0.053	ppbv#	82
21) Trichlorotrifluoroethane	5.519	101	2455	0.038	ppbv#	84
22) Trans-1,2-Dichloroethene	5.947	61	1998	0.037	ppbv	93
23) 1,1-Dichloroethane	6.088	63	2796	0.043	ppbv	90
27) Cis-1,2-Dichloroethene	6.608	61	1761	0.034	ppbv#	90
29) Chloroform	6.795	83	2616	0.040	ppbv#	81
32) 1,2-Dichloroethane	7.264	62	2106	0.039	ppbv#	43
33) 1,1,1-Trichloroethane	7.410	97	2485	0.036	ppbv#	84
35) Carbon Tetrachloride	7.797	117	2826	0.038	ppbv	86
38) 1,2-dichloropropane	8.209	63	1628	0.040	ppbv#	71
39) Bromodichloromethane	8.321	83	2861	0.040	ppbv	77
40) Trichloroethene	8.343	130	1607	0.040	ppbv#	57
45) cis-1,3-Dichloropropene	8.844	75	1284	0.026	ppbv	82
47) trans-1,3-Dichloropropene	9.150	75	1660	0.032	ppbv#	86
48) 1,1,2-Trichloroethane	9.267	97	1280	0.036	ppbv#	79
50) Dibromochloromethane	9.684	129	2679	0.039	ppbv	95
52) 1,2-Dibromoethane(EDB)	9.829	107	1750	0.033	ppbv#	68
53) Tetrachloroethene	10.082	166	1963	0.041	ppbv#	75
55) 1,1,1,2-Tetrachloroethane	10.458	131	1847	0.040	ppbv#	67
56) Chlorobenzene	10.458	112	3280	0.042	ppbv#	48
59) Bromoform	10.827	173	1884	0.038	ppbv#	77
61) 1,1,2,2-Tetrachloroethane	11.032	83	2798	0.039	ppbv#	68
72) 1,3-Dichlorobenzene	12.140	146	1884	0.030	ppbv#	87
73) 1,4-Dichlorobenzene	12.181	146	1535	0.028	ppbv#	88
76) 1,2-Dichlorobenzene	12.396	146	1933	0.032	ppbv#	86
83] Vinyl Chloride(sim)	3.839	62	1741	0.038	ppbv	93
84] Bromomethane(sim)	4.163	94	1220m	0.040	ppbv	84
85] Trichlorofluoromethane...	4.831	101	3999	0.038	ppbv#	95
86] 1,2-Dichloroethane(sim)	7.264	62	2106	0.037	ppbv#	65
87] 1,1,1-Trichloroethane(...	7.426	97	2907	0.036	ppbv#	97
89] Carbon Tetrachloride(sim)	7.803	117	3176	0.037	ppbv	97
90] 1,1-Dichloroethene(sim)	5.261	61	3220	0.043	ppbv#	84
91] Trichlorotrifluoroetha...	5.516	101	2835	0.037	ppbv#	99
92] Trans-1,2-Dichloroethe...	5.947	61	1998	0.037	ppbv	93
93] 1,1-Dichloroethane(sim)	6.094	63	2774	0.037	ppbv	99
94] Cis-1,2-Dichloroethene...	6.608	61	1761	0.035	ppbv#	94
95] Chloroform(sim)	6.801	83	2870	0.038	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_05.D
 Acq On : 8 Mar 2021 6:09 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 15:49:29 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 14:48:54 2021
 Response via : Initial Calibration

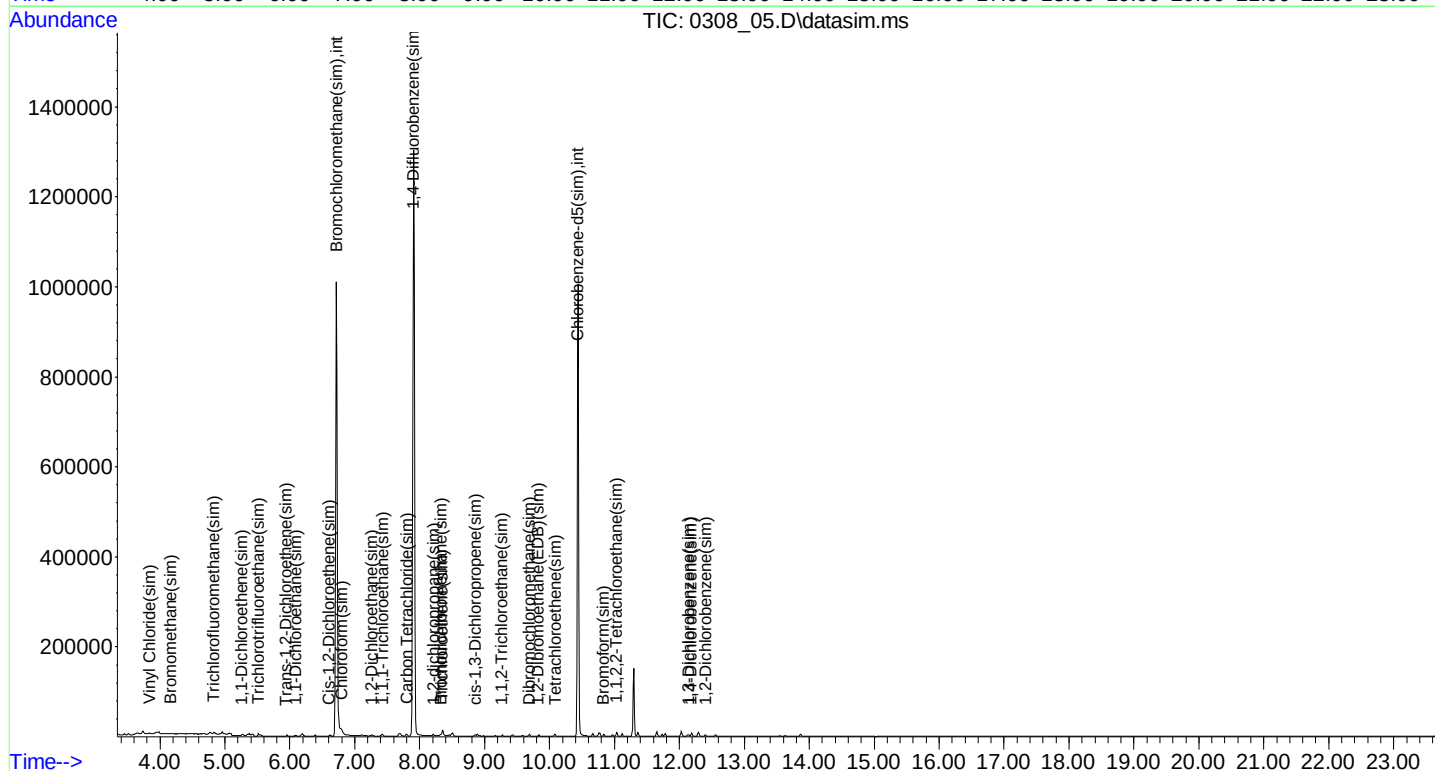
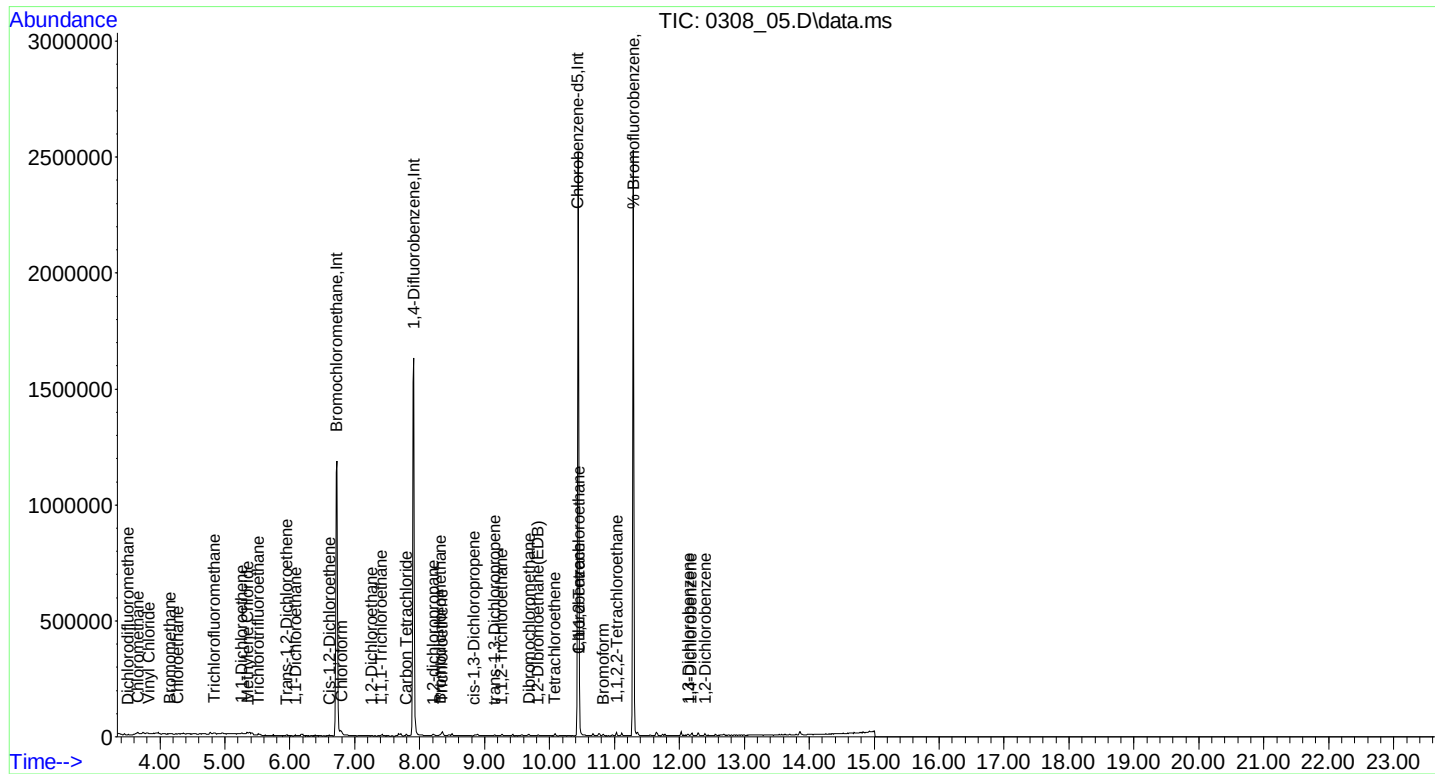
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.215	63	1890	0.039	ppbv	99
98]	Bromodichloromethane(sim)	8.321	83	2861	0.038	ppbv	85
99]	Trichloroethene(sim)	8.348	130	1735	0.036	ppbv	97
101]	cis-1,3-Dichloropropen...	8.861	75	1727	0.034	ppbv	98
102]	1,1,2-Trichloroethane(...	9.267	97	1280	0.033	ppbv#	80
103]	Dibromochloromethane(sim)	9.689	129	2841	0.036	ppbv	97
104]	1,2-Dibromoethane(EDB)...	9.829	107	1750	0.034	ppbv#	50
105]	Tetrachloroethene(sim)	10.087	166	2140	0.037	ppbv	97
107]	Bromoform(sim)	10.833	173	2229	0.037	ppbv	94
109]	1,1,2,2-Tetrachloroeth...	11.028	83	3212	0.037	ppbv	98
113]	1,3-Dichlorobenzene(sim)	12.145	146	2108	0.032	ppbv	95
114]	1,4-Dichlorobenzene(sim)	12.181	146	1535	0.033	ppbv	83
117]	1,2-Dichlorobenzene(sim)	12.402	146	2162	0.033	ppbv	96

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_05.D
 Acq On : 8 Mar 2021 6:09 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 09 15:49:29 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 14:48:54 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_06.D
 Acq On : 8 Mar 2021 6:45 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 09 15:50:17 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 14:49:56 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.715	130	285954	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.900	114	1023131	10.000	ng	0.00
54) Chlorobenzene-d5	10.440	82	487347	10.000	ng	0.00
81) Bromochloromethane(sim)	6.710	130	330136	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.900	114	1023131	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.440	82	487347	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.291	95	537126	9.542	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.40%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	3.489	85	4217	0.059	ppbv	96
4) Chloromethane	3.629	50	3811	0.069	ppbv	77
6) Vinyl Chloride	3.812	62	2205	0.057	ppbv	79
8) Bromomethane	4.136	94	1444	0.053	ppbv#	78
9) Chloroethane	4.265	64	793	0.043	ppbv	74
13) Trichlorofluoromethane	4.815	101	4649	0.052	ppbv	93
16) 1,1-Dichloroethene	5.244	61	3667	0.054	ppbv#	92
17) Methylene Chloride	5.330	49	4961	0.067	ppbv	99
21) Trichlorotrifluoroethane	5.502	101	3759	0.059	ppbv	92
22) Trans-1,2-Dichloroethene	5.939	61	2384	0.044	ppbv#	83
23) 1,1-Dichloroethane	6.073	63	3501	0.054	ppbv	90
27) Cis-1,2-Dichloroethene	6.600	61	2769	0.053	ppbv#	87
29) Chloroform	6.787	83	3458	0.053	ppbv	95
32) 1,2-Dichloroethane	7.256	62	2665	0.049	ppbv#	93
33) 1,1,1-Trichloroethane	7.412	97	3360	0.049	ppbv	86
35) Carbon Tetrachloride	7.789	117	3731	0.050	ppbv	92
38) 1,2-dichloropropane	8.212	63	2247	0.057	ppbv#	84
39) Bromodichloromethane	8.323	83	3912	0.057	ppbv	80
40) Trichloroethene	8.334	130	1956	0.051	ppbv#	74
45) cis-1,3-Dichloropropene	8.847	75	2524	0.053	ppbv	89
47) trans-1,3-Dichloropropene	9.153	75	2672	0.052	ppbv#	88
48) 1,1,2-Trichloroethane	9.259	97	2043	0.059	ppbv	91
50) Dibromochloromethane	9.677	129	3557	0.053	ppbv	98
52) 1,2-Dibromoethane(EDB)	9.822	107	2450	0.047	ppbv#	64
53) Tetrachloroethene	10.075	166	2580	0.056	ppbv#	71
55) 1,1,1,2-Tetrachloroethane	10.451	131	2964	0.065	ppbv	87
56) Chlorobenzene	10.461	112	4937	0.064	ppbv#	68
59) Bromoform	10.830	173	2665	0.054	ppbv#	88
61) 1,1,2,2-Tetrachloroethane	11.024	83	4017	0.056	ppbv#	84
72) 1,3-Dichlorobenzene	12.142	146	2053	0.033	ppbv#	87
73) 1,4-Dichlorobenzene	12.173	146	1647	0.031	ppbv	88
76) 1,2-Dichlorobenzene	12.399	146	2059	0.035	ppbv#	72
83] Vinyl Chloride(sim)	3.818	62	2225	0.050	ppbv	98
84] Bromomethane(sim)	4.141	94	1634m	0.055	ppbv	87
85] Trichlorofluoromethane...	4.820	101	5363	0.052	ppbv#	99
86] 1,2-Dichloroethane(sim)	7.256	62	2665	0.048	ppbv#	93
87] 1,1,1-Trichloroethane(...	7.418	97	3998	0.050	ppbv#	97
89] Carbon Tetrachloride(sim)	7.794	117	4316	0.050	ppbv	98
90] 1,1-Dichloroethene(sim)	5.244	61	3667	0.050	ppbv#	92
91] Trichlorotrifluoroetha...	5.508	101	3874	0.052	ppbv#	98
92] Trans-1,2-Dichloroethe...	5.939	61	2384	0.045	ppbv#	83
93] 1,1-Dichloroethane(sim)	6.078	63	3694	0.049	ppbv	98
94] Cis-1,2-Dichloroethene...	6.600	61	2769	0.056	ppbv#	80
95] Chloroform(sim)	6.793	83	3769	0.050	ppbv	88

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_06.D
 Acq On : 8 Mar 2021 6:45 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 09 15:50:17 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 14:49:56 2021
 Response via : Initial Calibration

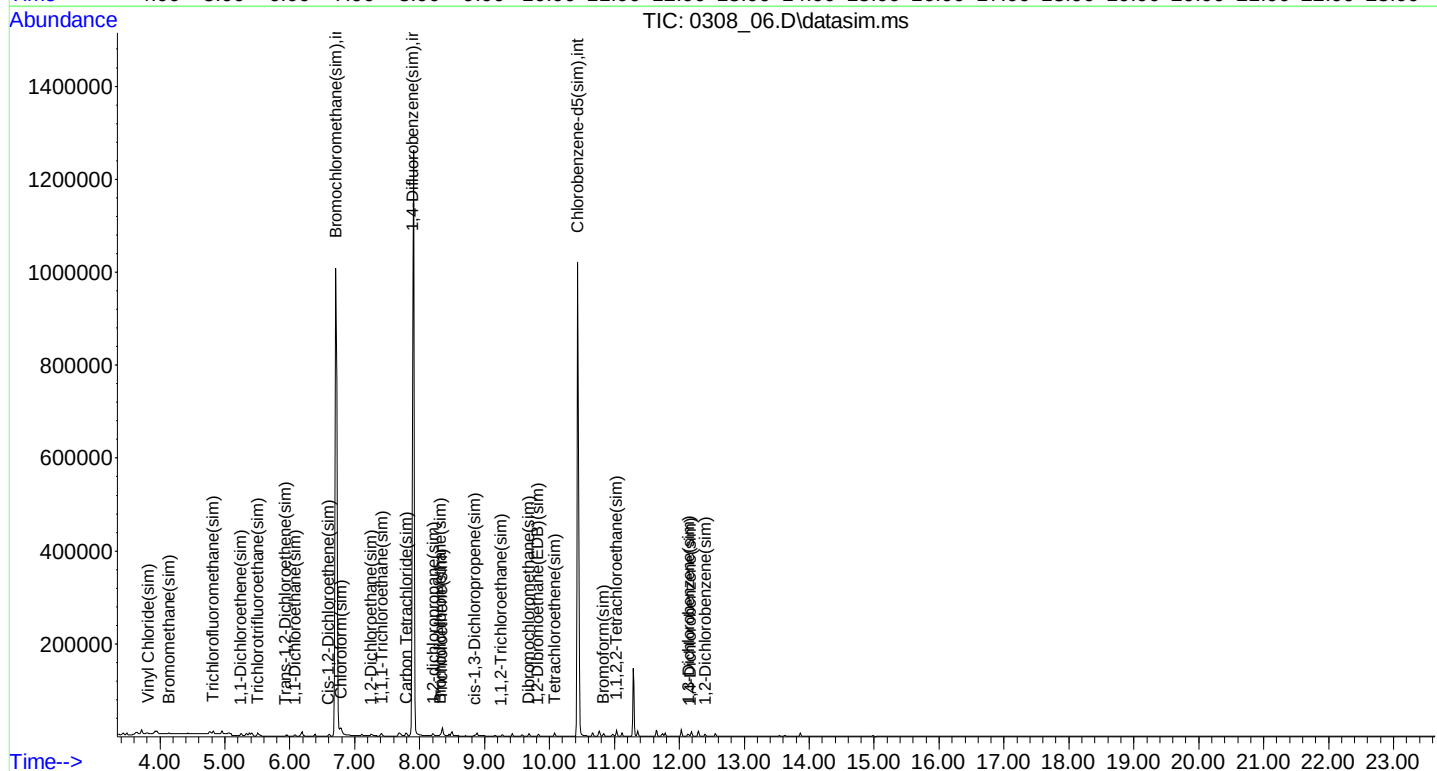
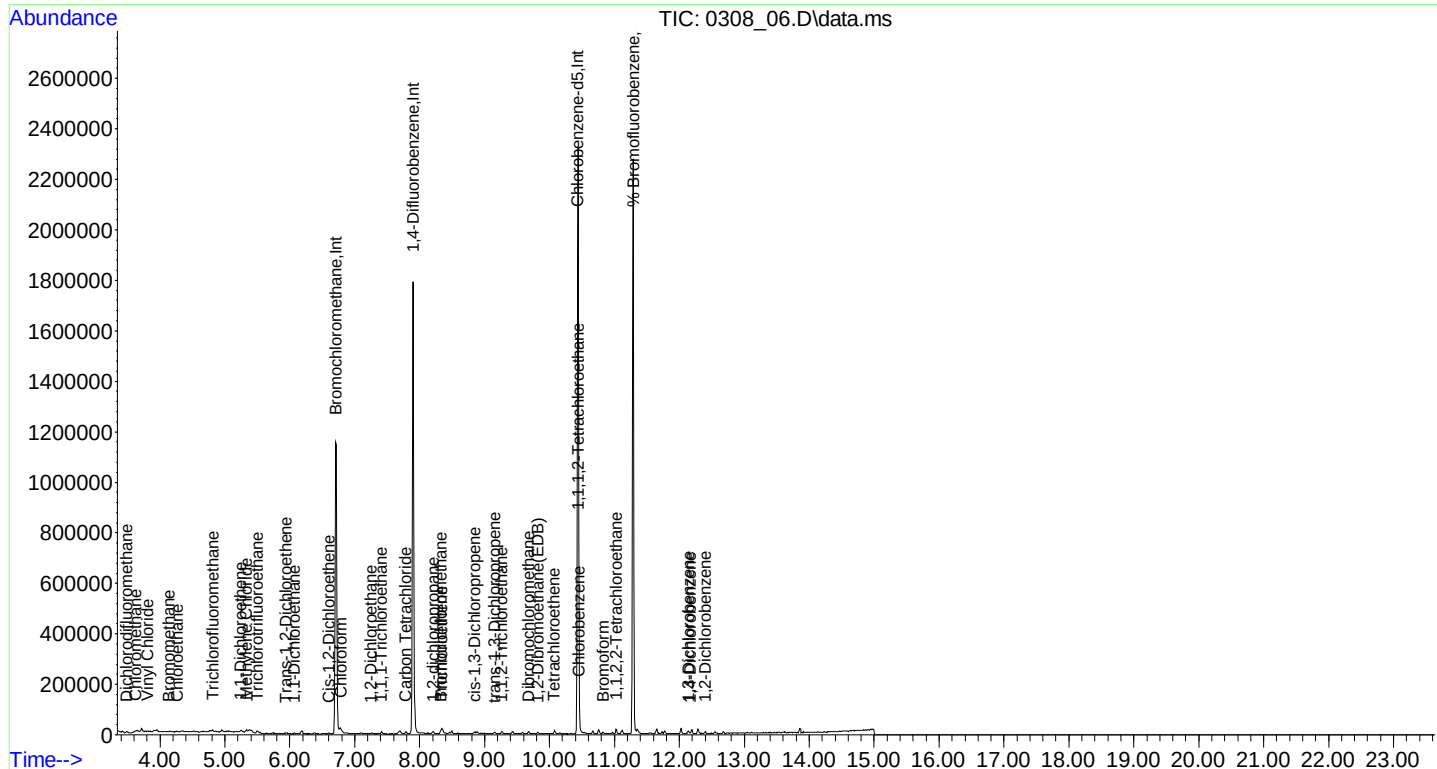
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.206	63	2429	0.052	ppbv	97
98]	Bromodichloromethane(sim)	8.323	83	3912	0.053	ppbv	81
99]	Trichloroethene(sim)	8.340	130	2381	0.051	ppbv	98
101]	cis-1,3-Dichloropropen...	8.852	75	2457	0.050	ppbv	95
102]	1,1,2-Trichloroethane(...	9.259	97	1917	0.051	ppbv	96
103]	Dibromochloromethane(sim)	9.682	129	3875	0.051	ppbv	98
104]	1,2-Dibromoethane(EDB)...	9.822	107	2450	0.049	ppbv#	64
105]	Tetrachloroethene(sim)	10.080	166	2846	0.050	ppbv	99
107]	Bromoform(sim)	10.835	173	2996	0.050	ppbv	98
109]	1,1,2,2-Tetrachloroeth...	11.030	83	4223	0.049	ppbv#	98
113]	1,3-Dichlorobenzene(sim)	12.138	146	2579	0.040	ppbv	99
114]	1,4-Dichlorobenzene(sim)	12.173	146	1647	0.036	ppbv	83
117]	1,2-Dichlorobenzene(sim)	12.394	146	2808	0.044	ppbv	99

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_06.D
 Acq On : 8 Mar 2021 6:45 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 09 15:50:17 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 14:49:56 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_07.D
 Acq On : 8 Mar 2021 7:21 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 15:50:56 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 14:50:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.714	130	286766	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.900	114	1033104	10.000	ng	0.00
54) Chlorobenzene-d5	10.440	82	479734	10.000	ng	0.00
81) Bromochloromethane(sim)	6.720	130	329542	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	7.900	114	1033104	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.440	82	479734	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.291	95	547007	9.872	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.70%

Target Compounds			Qvalue			
3) Dichlorodifluoromethane	3.489	85	8616	0.119	ppbv#	86
4) Chloromethane	3.629	50	7551	0.136	ppbv	88
6) Vinyl Chloride	3.801	62	3786	0.098	ppbv	64
8) Bromomethane	4.135	94	2707	0.100	ppbv	86
9) Chloroethane	4.265	64	1847	0.100	ppbv#	57
13) Trichlorofluoromethane	4.814	101	9700	0.108	ppbv#	92
16) 1,1-Dichloroethene	5.252	61	7023	0.103	ppbv	91
17) Methylene Chloride	5.330	49	9379	0.126	ppbv#	94
21) Trichlorotrifluoroethane	5.502	101	6413	0.100	ppbv#	83
22) Trans-1,2-Dichloroethene	5.946	61	4989	0.092	ppbv#	91
23) 1,1-Dichloroethane	6.080	63	7210	0.112	ppbv	84
27) Cis-1,2-Dichloroethene	6.610	61	4875	0.093	ppbv#	87
29) Chloroform	6.787	83	6817	0.104	ppbv	86
32) 1,2-Dichloroethane	7.256	62	5022	0.092	ppbv#	83
33) 1,1,1-Trichloroethane	7.412	97	6442	0.094	ppbv	97
35) Carbon Tetrachloride	7.788	117	7657	0.102	ppbv#	83
38) 1,2-dichloropropane	8.212	63	4392	0.111	ppbv#	61
39) Bromodichloromethane	8.323	83	7427	0.107	ppbv	97
40) Trichloroethene	8.345	130	3404	0.088	ppbv	94
45) cis-1,3-Dichloropropene	8.846	75	4682	0.098	ppbv	87
47) trans-1,3-Dichloropropene	9.153	75	4350	0.085	ppbv#	72
48) 1,1,2-Trichloroethane	9.269	97	3947	0.112	ppbv	94
50) Dibromochloromethane	9.686	129	6583	0.098	ppbv#	96
52) 1,2-Dibromoethane(EDB)	9.822	107	4407	0.084	ppbv#	77
53) Tetrachloroethene	10.075	166	4723	0.102	ppbv#	80
55) 1,1,1,2-Tetrachloroethane	10.450	131	4930	0.111	ppbv#	97
56) Chlorobenzene	10.461	112	8018	0.105	ppbv#	61
59) Bromoform	10.830	173	4877	0.101	ppbv#	91
61) 1,1,2,2-Tetrachloroethane	11.024	83	6836	0.097	ppbv#	84
72) 1,3-Dichlorobenzene	12.132	146	5485	0.089	ppbv#	81
73) 1,4-Dichlorobenzene	12.183	146	3109	0.059	ppbv	91
76) 1,2-Dichlorobenzene	12.399	146	4896	0.084	ppbv#	84
83) Vinyl Chloride(sim)	3.818	62	4386	0.098	ppbv	95
84) Bromomethane(sim)	4.135	94	2707	0.091	ppbv	96
85) Trichlorofluoromethane...	4.820	101	10456	0.102	ppbv#	98
86) 1,2-Dichloroethane(sim)	7.256	62	5022	0.091	ppbv#	83
87) 1,1,1-Trichloroethane(...)	7.418	97	7741	0.098	ppbv#	99
89) Carbon Tetrachloride(sim)	7.794	117	8290	0.097	ppbv	98
90) 1,1-Dichloroethene(sim)	5.252	61	7023	0.095	ppbv	91
91) Trichlorotrifluoroetha...	5.508	101	7438	0.099	ppbv#	99
92) Trans-1,2-Dichloroethe...	5.946	61	4989	0.095	ppbv#	91
93) 1,1-Dichloroethane(sim)	6.078	63	7255	0.097	ppbv	97
94) Cis-1,2-Dichloroethene...	6.610	61	4875	0.099	ppbv#	87
95) Chloroform(sim)	6.793	83	7249	0.097	ppbv#	85

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_07.D
 Acq On : 8 Mar 2021 7:21 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 15:50:56 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 14:50:44 2021
 Response via : Initial Calibration

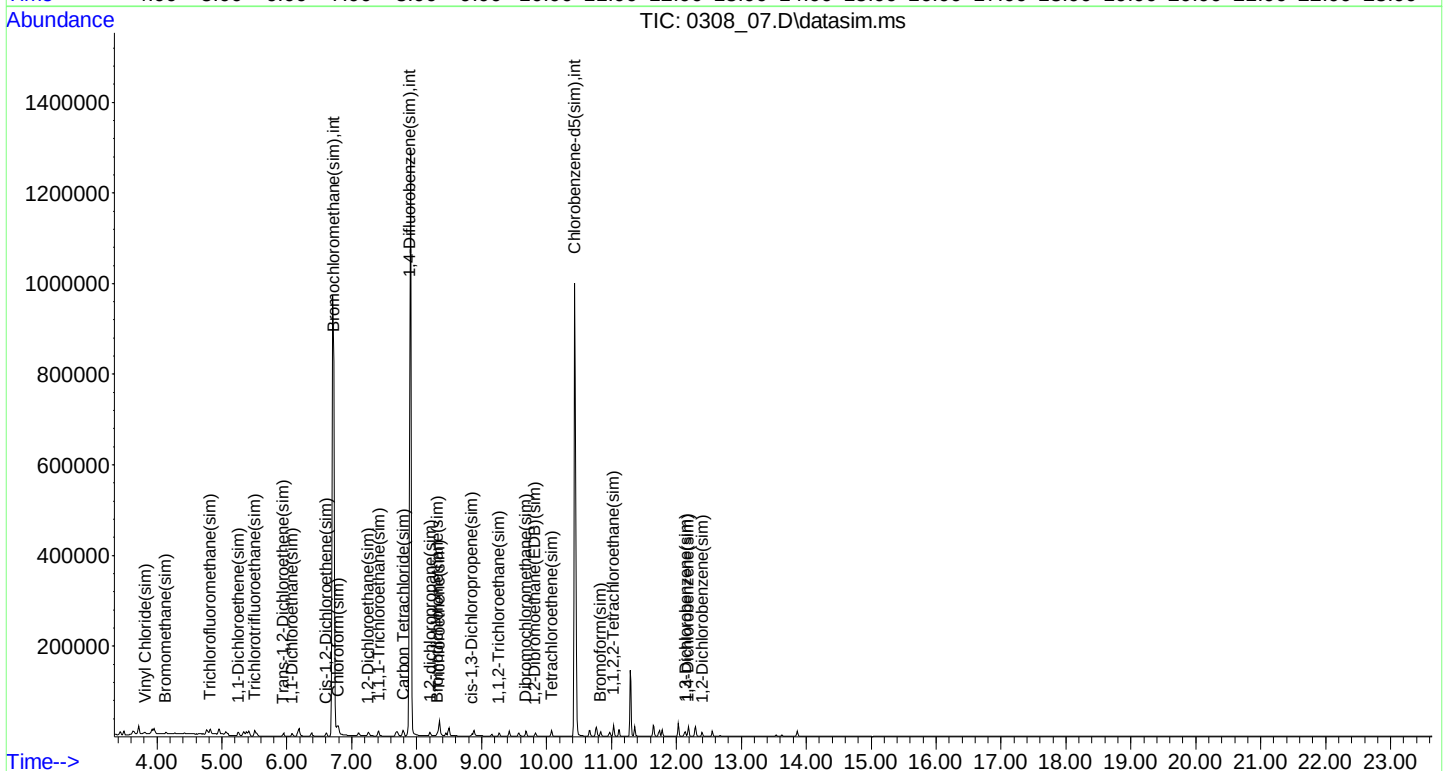
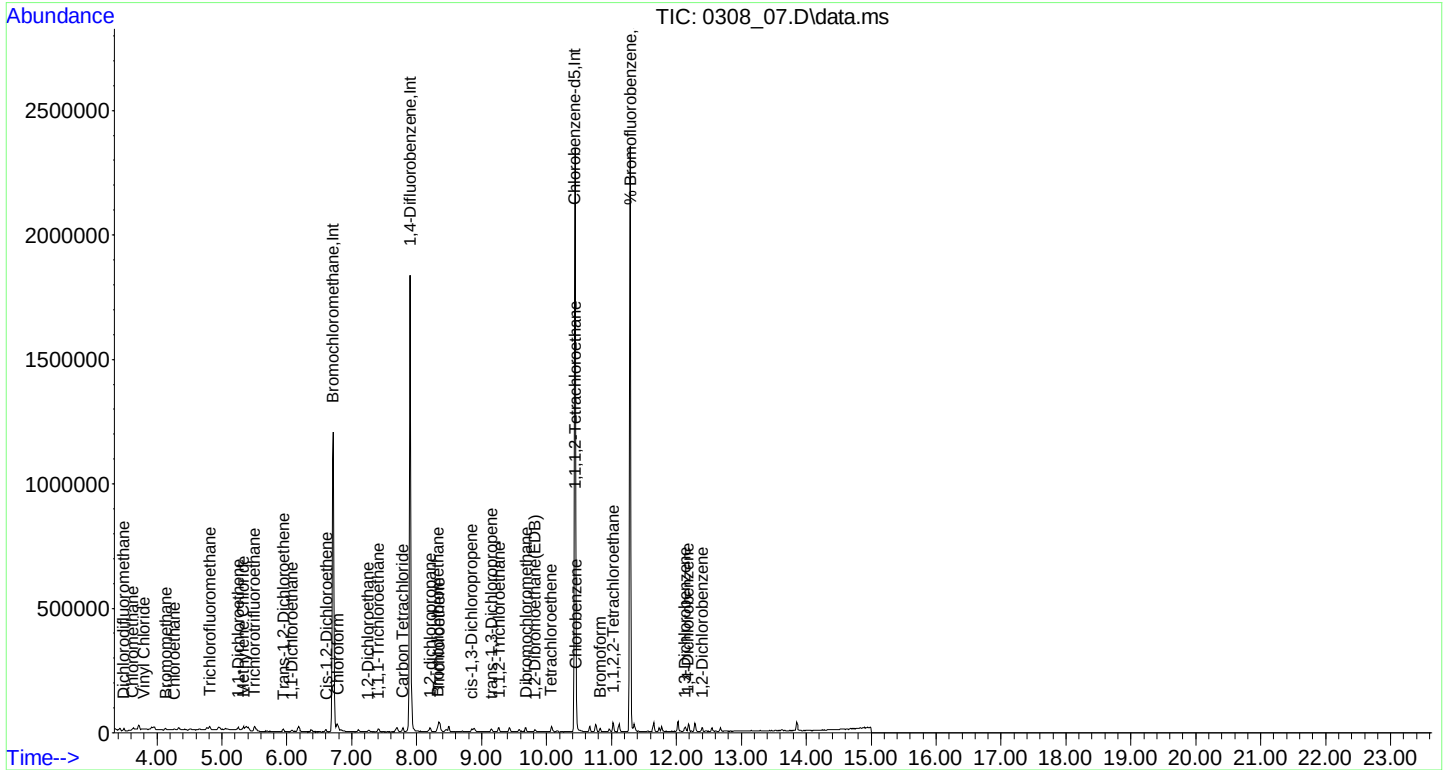
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.206	63	4603	0.098	ppbv	97
98]	Bromodichloromethane(sim)	8.323	83	7427	0.100	ppbv	96
99]	Trichloroethene(sim)	8.351	130	4502	0.096	ppbv	99
101]	cis-1,3-Dichloropropen...	8.852	75	4648	0.094	ppbv	98
102]	1,1,2-Trichloroethane(...	9.269	97	4081	0.108	ppbv	87
103]	Dibromochloromethane(sim)	9.682	129	7609	0.099	ppbv	97
104]	1,2-Dibromoethane(EDB)...	9.822	107	4407	0.087	ppbv#	77
105]	Tetrachloroethene(sim)	10.080	166	5479	0.096	ppbv	99
107]	Bromoform(sim)	10.835	173	5812	0.099	ppbv	99
109]	1,1,2,2-Tetrachloroeth...	11.030	83	8105	0.096	ppbv	100
113]	1,3-Dichlorobenzene(sim)	12.138	146	5240	0.083	ppbv	99
114]	1,4-Dichlorobenzene(sim)	12.183	146	3109	0.069	ppbv	90
117]	1,2-Dichlorobenzene(sim)	12.394	146	5570	0.088	ppbv	98

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_07.D
 Acq On : 8 Mar 2021 7:21 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 15:50:56 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 14:50:44 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_08.D
 Acq On : 8 Mar 2021 7:58 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 15:46:33 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 14:46:11 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.712	130	282286	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.897	114	1012296	10.000	ng	0.00
54) Chlorobenzene-d5	10.438	82	475318	10.000	ng	0.00
81) Bromochloromethane(sim)	6.718	130	323883	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.897	114	1012296	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.438	82	475434	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.288	95	549068	10.001	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	3.500	85	15078	0.212	ppbv	95
4) Chloromethane	3.640	50	12080	0.221	ppbv	90
6) Vinyl Chloride	3.823	62	8354	0.219	ppbv	92
8) Bromomethane	4.136	94	5862	0.220	ppbv	89
9) Chloroethane	4.276	64	3846	0.212	ppbv	88
13) Trichlorofluoromethane	4.815	101	16984	0.192	ppbv	93
16) 1,1-Dichloroethene	5.252	61	13740	0.205	ppbv	97
17) Methylene Chloride	5.338	49	15846	0.216	ppbv	96
21) Trichlorotrifluoroethane	5.502	101	12945	0.206	ppbv	96
22) Trans-1,2-Dichloroethene	5.947	61	10131	0.190	ppbv	94
23) 1,1-Dichloroethane	6.080	63	12490	0.197	ppbv	97
27) Cis-1,2-Dichloroethene	6.608	61	8979	0.175	ppbv	97
29) Chloroform	6.795	83	13373	0.208	ppbv	94
32) 1,2-Dichloroethane	7.254	62	10011	0.187	ppbv	93
33) 1,1,1-Trichloroethane	7.420	97	13385	0.197	ppbv	96
35) Carbon Tetrachloride	7.786	117	13882	0.188	ppbv	94
38) 1,2-dichloropropane	8.209	63	8178	0.210	ppbv#	90
39) Bromodichloromethane	8.321	83	13503	0.199	ppbv	87
40) Trichloroethene	8.343	130	6880	0.181	ppbv	94
45) cis-1,3-Dichloropropene	8.855	75	8310	0.178	ppbv	96
47) trans-1,3-Dichloropropene	9.150	75	8420	0.167	ppbv#	86
48) 1,1,2-Trichloroethane	9.267	97	6576	0.191	ppbv	98
50) Dibromochloromethane	9.684	129	12536	0.190	ppbv	97
52) 1,2-Dibromoethane(EDB)	9.829	107	9133	0.178	ppbv	95
53) Tetrachloroethene	10.082	166	8580	0.188	ppbv	97
55) 1,1,1,2-Tetrachloroethane	10.448	131	9992	0.226	ppbv	93
56) Chlorobenzene	10.458	112	16702	0.221	ppbv#	75
59) Bromoform	10.827	173	9376	0.196	ppbv	99
61) 1,1,2,2-Tetrachloroethane	11.032	83	13646	0.196	ppbv	93
72) 1,3-Dichlorobenzene	12.140	146	9604	0.158	ppbv	90
73) 1,4-Dichlorobenzene	12.181	146	7230	0.138	ppbv	97
76) 1,2-Dichlorobenzene	12.396	146	9458	0.164	ppbv	95
83) Vinyl Chloride(sim)	3.818	62	8336	0.190	ppbv	99
84) Bromomethane(sim)	4.136	94	5862	0.201	ppbv	89
85) Trichlorofluoromethane...	4.820	101	19630	0.196	ppbv#	98
86) 1,2-Dichloroethane(sim)	7.254	62	10011	0.184	ppbv	93
87) 1,1,1-Trichloroethane(...)	7.415	97	14785	0.190	ppbv#	100
89) Carbon Tetrachloride(sim)	7.792	117	15932	0.190	ppbv	100
90) 1,1-Dichloroethene(sim)	5.252	61	13740	0.190	ppbv	97
91) Trichlorotrifluoroetha...	5.508	101	14105	0.191	ppbv#	99
92) Trans-1,2-Dichloroethe...	5.947	61	10131	0.197	ppbv	94
93) 1,1-Dichloroethane(sim)	6.086	63	14065	0.192	ppbv	100
94) Cis-1,2-Dichloroethene...	6.608	61	8979	0.185	ppbv	97
95) Chloroform(sim)	6.801	83	14112	0.193	ppbv	94

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_08.D
 Acq On : 8 Mar 2021 7:58 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 15:46:33 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 14:46:11 2021
 Response via : Initial Calibration

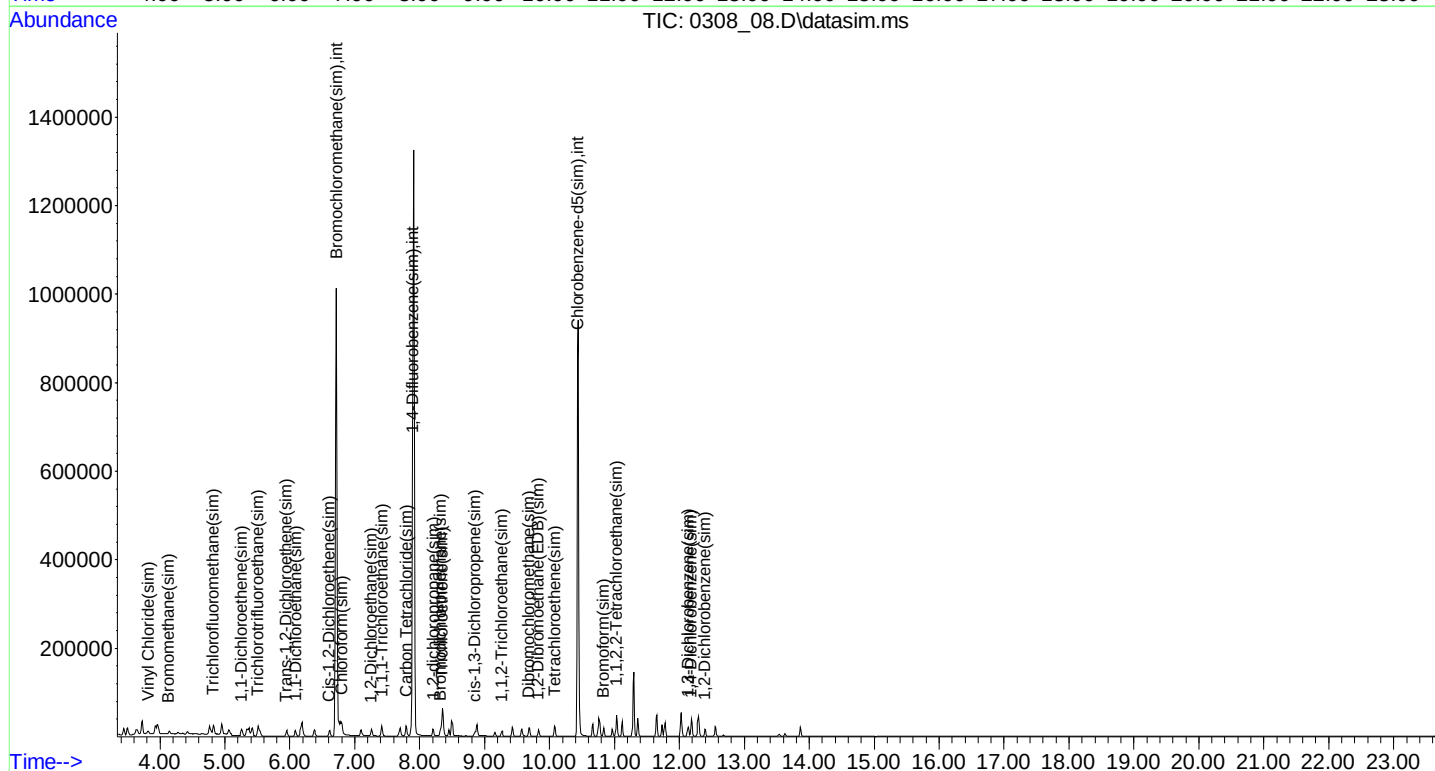
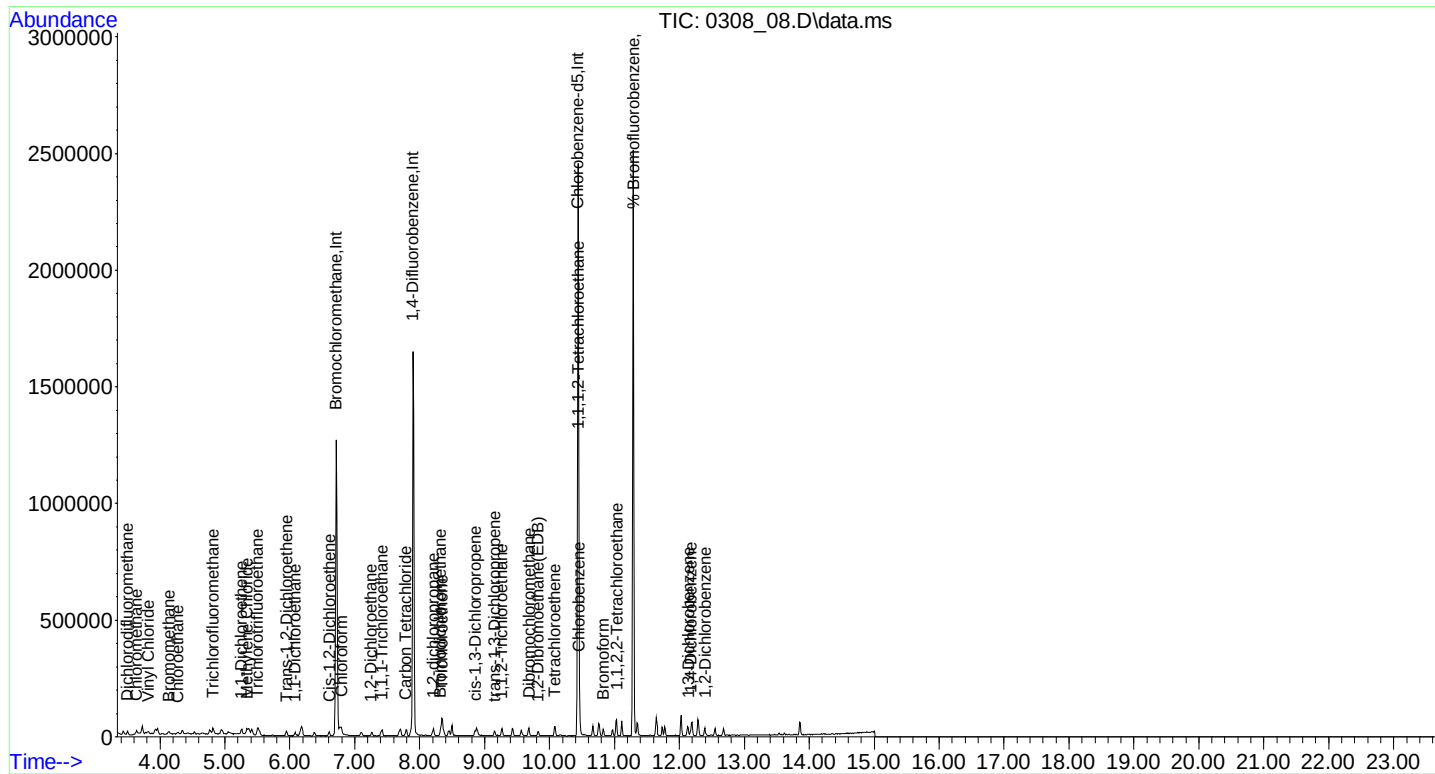
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.204	63	8540	0.185	ppbv	99
98]	Bromodichloromethane(sim)	8.321	83	13503	0.186	ppbv	85
99]	Trichloroethene(sim)	8.348	130	8692	0.189	ppbv	99
101]	cis-1,3-Dichloropropen...	8.850	75	9028	0.187	ppbv	99
102]	1,1,2-Trichloroethane(...	9.267	97	6576	0.178	ppbv	98
103]	Dibromochloromethane(sim)	9.680	129	14258	0.189	ppbv	99
104]	1,2-Dibromoethane(EDB)...	9.829	107	9133	0.185	ppbv	95
105]	Tetrachloroethene(sim)	10.078	166	10541	0.188	ppbv	98
107]	Bromoform(sim)	10.833	173	11065	0.190	ppbv	99
109]	1,1,2,2-Tetrachloroeth...	11.028	83	15692	0.187	ppbv	99
113]	1,3-Dichlorobenzene(sim)	12.135	146	10814	0.172	ppbv	99
114]	1,4-Dichlorobenzene(sim)	12.181	146	7230	0.162	ppbv	92
117]	1,2-Dichlorobenzene(sim)	12.392	146	11356	0.181	ppbv	98

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_08.D
 Acq On : 8 Mar 2021 7:58 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 09 15:46:33 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 14:46:11 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_09.D
 Acq On : 8 Mar 2021 8:36 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 15:45:35 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 14:45:20 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.714	130	280228	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.900	114	1038012	10.000	ng	0.00
54) Chlorobenzene-d5	10.440	82	487404	10.000	ng	0.00
81) Bromochloromethane(sim)	6.720	130	325449	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.900	114	1036799	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.440	82	487404	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.291	95	569030	10.126	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.30%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	3.510	85	33085	0.468	ppbv	97
4) Chloromethane	3.640	50	28939	0.532	ppbv	96
6) Vinyl Chloride	3.823	62	17572	0.465	ppbv	97
8) Bromomethane	4.135	94	13043	0.493	ppbv	98
9) Chloroethane	4.276	64	8680	0.482	ppbv	94
13) Trichlorofluoromethane	4.825	101	45559	0.518	ppbv	98
16) 1,1-Dichloroethene	5.261	61	30989	0.465	ppbv	95
17) Methylene Chloride	5.347	49	33939	0.466	ppbv	93
21) Trichlorotrifluoroethane	5.511	101	30123	0.483	ppbv	98
22) Trans-1,2-Dichloroethene	5.954	61	23471	0.443	ppbv	97
23) 1,1-Dichloroethane	6.088	63	30658	0.487	ppbv	99
27) Cis-1,2-Dichloroethene	6.610	61	21148	0.414	ppbv	98
29) Chloroform	6.798	83	30426	0.476	ppbv	93
32) 1,2-Dichloroethane	7.256	62	25416	0.477	ppbv	95
33) 1,1,1-Trichloroethane	7.412	97	32280	0.479	ppbv	99
35) Carbon Tetrachloride	7.800	117	34411	0.470	ppbv	97
38) 1,2-dichloropropane	8.212	63	18861	0.473	ppbv	96
39) Bromodichloromethane	8.323	83	34040	0.490	ppbv	91
40) Trichloroethene	8.345	130	17637	0.453	ppbv	92
45) cis-1,3-Dichloropropene	8.846	75	21050	0.439	ppbv	98
47) trans-1,3-Dichloropropene	9.153	75	22464	0.435	ppbv	95
48) 1,1,2-Trichloroethane	9.269	97	17211	0.487	ppbv	98
50) Dibromochloromethane	9.686	129	31168	0.460	ppbv	97
52) 1,2-Dibromoethane(EDB)	9.822	107	22639	0.431	ppbv	99
53) Tetrachloroethene	10.075	166	21950	0.470	ppbv	98
55) 1,1,1,2-Tetrachloroethane	10.450	131	23077	0.509	ppbv	95
56) Chlorobenzene	10.461	112	39789	0.513	ppbv#	82
59) Bromoform	10.830	173	24531	0.499	ppbv	96
61) 1,1,2,2-Tetrachloroethane	11.024	83	35323	0.495	ppbv	96
72) 1,3-Dichlorobenzene	12.132	146	26127	0.419	ppbv	96
73) 1,4-Dichlorobenzene	12.173	146	24289	0.452	ppbv	95
76) 1,2-Dichlorobenzene	12.399	146	25651	0.433	ppbv	94
83) Vinyl Chloride(sim)	3.828	62	19981	0.454	ppbv	99
84) Bromomethane(sim)	4.135	94	13043	0.446	ppbv	98
85) Trichlorofluoromethane...	4.831	101	47983	0.476	ppbv#	99
86) 1,2-Dichloroethane(sim)	7.256	62	25416	0.464	ppbv	95
87) 1,1,1-Trichloroethane(...)	7.418	97	35728	0.457	ppbv#	100
89) Carbon Tetrachloride(sim)	7.794	117	38837	0.461	ppbv	100
90) 1,1-Dichloroethene(sim)	5.261	61	30989	0.426	ppbv	95
91) Trichlorotrifluoroetha...	5.516	101	33867	0.457	ppbv#	100
92) Trans-1,2-Dichloroethe...	5.954	61	23471	0.454	ppbv	97
93) 1,1-Dichloroethane(sim)	6.094	63	33839	0.460	ppbv	99
94) Cis-1,2-Dichloroethene...	6.610	61	21148	0.433	ppbv	98
95) Chloroform(sim)	6.803	83	33583	0.456	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_09.D
 Acq On : 8 Mar 2021 8:36 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 15:45:35 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 14:45:20 2021
 Response via : Initial Calibration

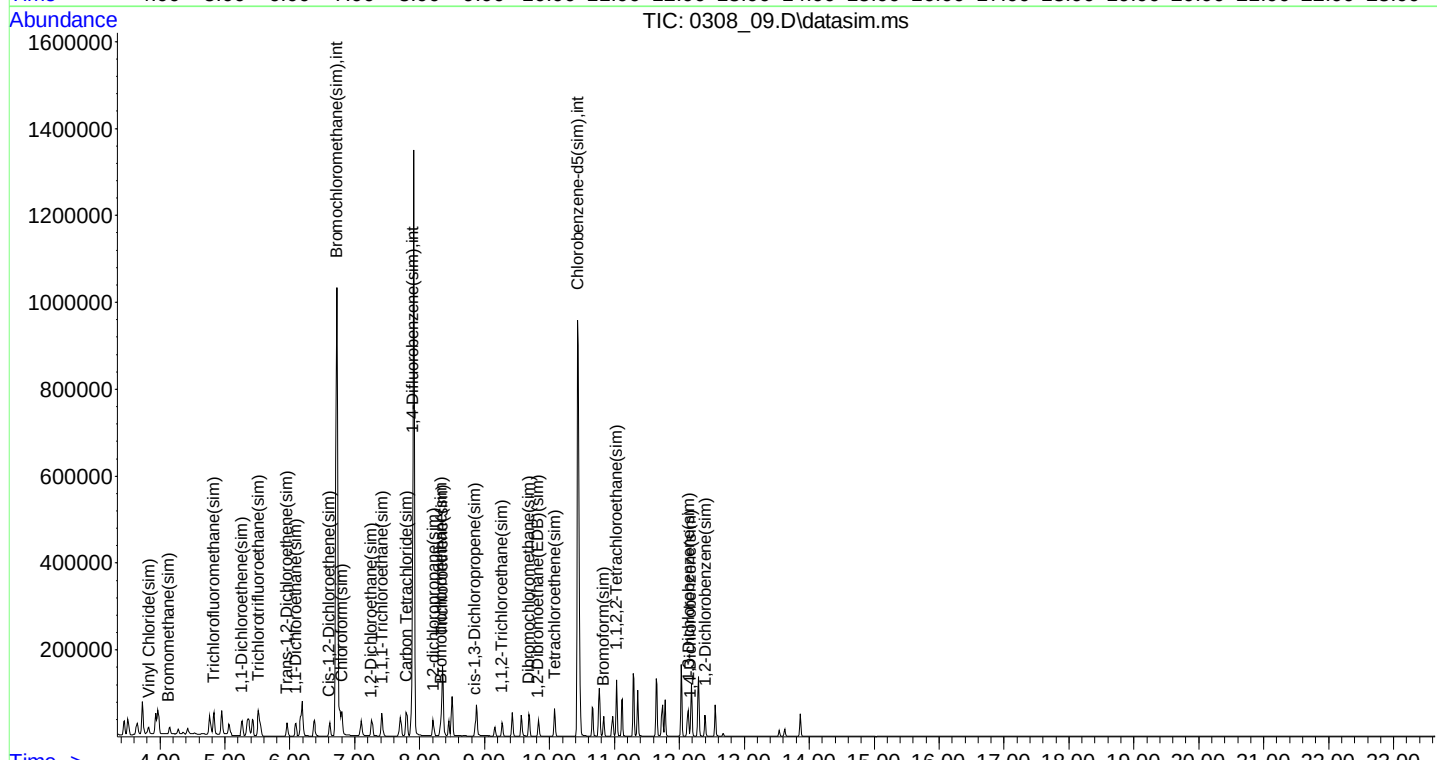
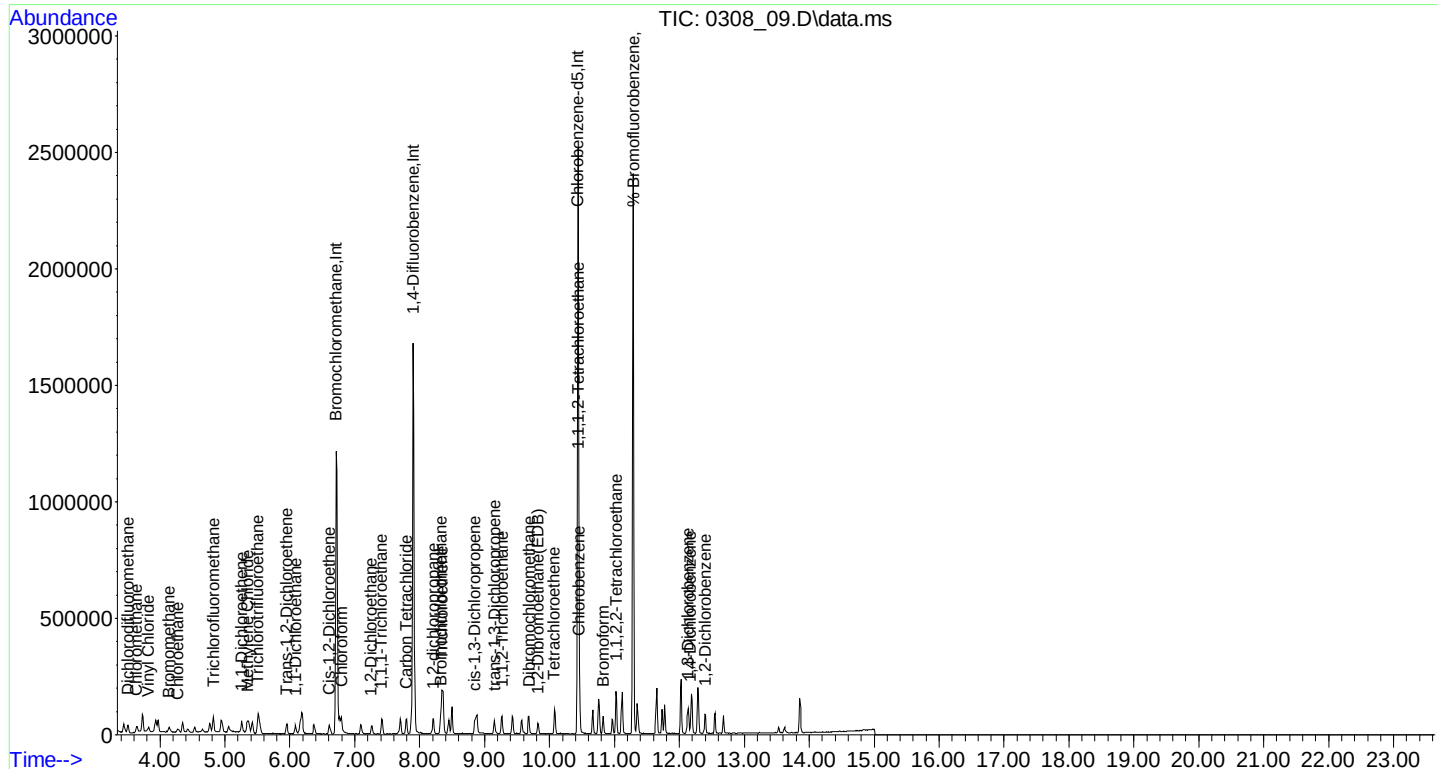
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.206	63	20787	0.439	ppbv	99
98]	Bromodichloromethane(sim)	8.323	83	34040	0.457	ppbv	90
99]	Trichloroethene(sim)	8.351	130	21264	0.451	ppbv	99
101]	cis-1,3-Dichloropropen...	8.852	75	22215	0.449	ppbv	99
102]	1,1,2-Trichloroethane(...	9.269	97	17211	0.454	ppbv	98
103]	Dibromochloromethane(sim)	9.682	129	35354	0.459	ppbv	99
104]	1,2-Dibromoethane(EDB)...	9.822	107	22639	0.447	ppbv	99
105]	Tetrachloroethene(sim)	10.080	166	25749	0.448	ppbv	99
107]	Bromoform(sim)	10.835	173	27681	0.464	ppbv	100
109]	1,1,2,2-Tetrachloroeth...	11.030	83	39634	0.461	ppbv	99
113]	1,3-Dichlorobenzene(sim)	12.138	146	31053	0.483	ppbv	100
114]	1,4-Dichlorobenzene(sim)	12.173	146	24289	0.529	ppbv	95
117]	1,2-Dichlorobenzene(sim)	12.394	146	30527	0.475	ppbv	100

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_09.D
 Acq On : 8 Mar 2021 8:36 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 09 15:45:35 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 14:45:20 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_10.D
 Acq On : 8 Mar 2021 9:15 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 12:17:53 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 11:17:41 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.714	130	277867	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.900	114	1056035	10.000	ng	0.00
54) Chlorobenzene-d5	10.440	82	508050	10.000	ng	0.00
81) Bromochloromethane(sim)	6.720	130	325241	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.900	114	1055580	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.440	82	508050	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.291 95 610360 10.508 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 105.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	3.478	85	158263	2.260	ppbv	99
4) Chloromethane	3.618	50	129354	2.400	ppbv	98
6) Vinyl Chloride	3.801	62	89211	2.381	ppbv	99
8) Bromomethane	4.125	94	64368	2.452	ppbv	98
9) Chloroethane	4.254	64	43760	2.452	ppbv	97
13) Trichlorofluoromethane	4.804	101	209416	2.401	ppbv	100
16) 1,1-Dichloroethene	5.243	61	155404	2.353	ppbv	99
17) Methylene Chloride	5.330	49	182223	2.525	ppbv	94
21) Trichlorotrifluoroethane	5.502	101	148935	2.408	ppbv	99
22) Trans-1,2-Dichloroethene	5.939	61	120228	2.291	ppbv	99
23) 1,1-Dichloroethane	6.080	63	149173	2.388	ppbv	100
27) Cis-1,2-Dichloroethene	6.610	61	113280	2.238	ppbv	99
29) Chloroform	6.798	83	153281	2.421	ppbv	98
32) 1,2-Dichloroethane	7.256	62	126316	2.393	ppbv	99
33) 1,1,1-Trichloroethane	7.412	97	157835	2.364	ppbv	99
35) Carbon Tetrachloride	7.788	117	169273	2.333	ppbv	99
38) 1,2-dichloropropane	8.200	63	92639	2.283	ppbv	97
39) Bromodichloromethane	8.323	83	167153	2.366	ppbv	99
40) Trichloroethene	8.345	130	96709	2.439	ppbv	98
45) cis-1,3-Dichloropropene	8.846	75	108748	2.230	ppbv	99
47) trans-1,3-Dichloropropene	9.153	75	117068	2.227	ppbv	95
48) 1,1,2-Trichloroethane	9.259	97	86721	2.413	ppbv	99
50) Dibromochloromethane	9.686	129	159384	2.310	ppbv	99
52) 1,2-Dibromoethane(EDB)	9.822	107	123511	2.314	ppbv	97
53) Tetrachloroethene	10.075	166	111808	2.354	ppbv	97
55) 1,1,1,2-Tetrachloroethane	10.450	131	118921	2.517	ppbv	98
56) Chlorobenzene	10.461	112	199334	2.465	ppbv	97
59) Bromoform	10.830	173	126307	2.465	ppbv	99
61) 1,1,2,2-Tetrachloroethane	11.024	83	190212	2.558	ppbv	97
72) 1,3-Dichlorobenzene	12.132	146	158205	2.436	ppbv	96
73) 1,4-Dichlorobenzene	12.173	146	140205	2.503	ppbv	99
76) 1,2-Dichlorobenzene	12.388	146	157907	2.558	ppbv	99
83) Vinyl Chloride(sim)	3.807	62	99835	2.268	ppbv	100
84) Bromomethane(sim)	4.125	94	64368	2.201	ppbv	98
85) Trichlorofluoromethane...	4.809	101	234231	2.326	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.256	62	126316	2.309	ppbv	99
87) 1,1,1-Trichloroethane(...)	7.418	97	176779	2.264	ppbv#	100
89) Carbon Tetrachloride(sim)	7.794	117	191916	2.278	ppbv	100
90) 1,1-Dichloroethene(sim)	5.243	61	155404	2.140	ppbv	99
91) Trichlorotrifluoroetha...	5.508	101	165440	2.235	ppbv#	100
92) Trans-1,2-Dichloroethe...	5.939	61	120228	2.329	ppbv	99
93) 1,1-Dichloroethane(sim)	6.078	63	168222	2.286	ppbv	100
94) Cis-1,2-Dichloroethene...	6.610	61	113280	2.321	ppbv	99
95) Chloroform(sim)	6.793	83	167592	2.277	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_10.D
 Acq On : 8 Mar 2021 9:15 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 12:17:53 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 11:17:41 2021
 Response via : Initial Calibration

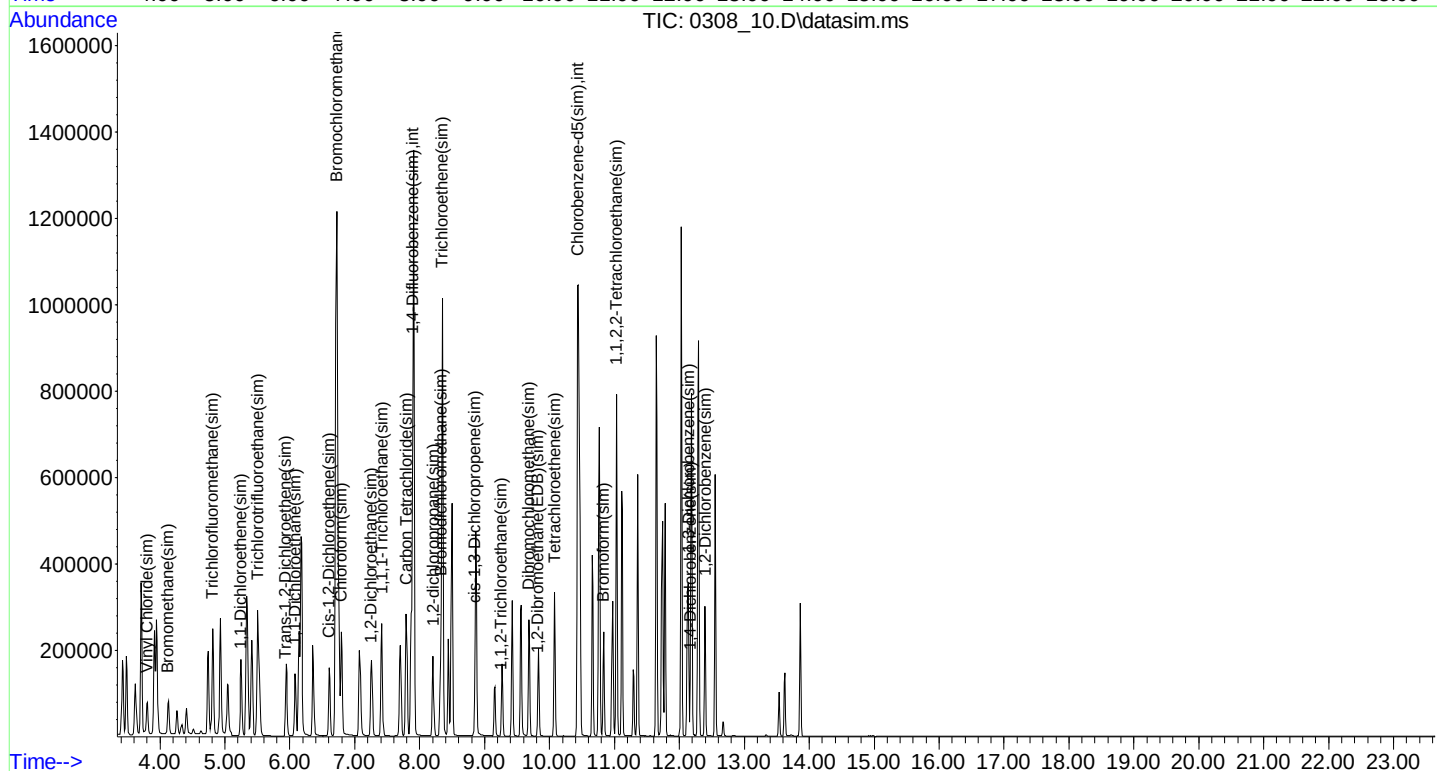
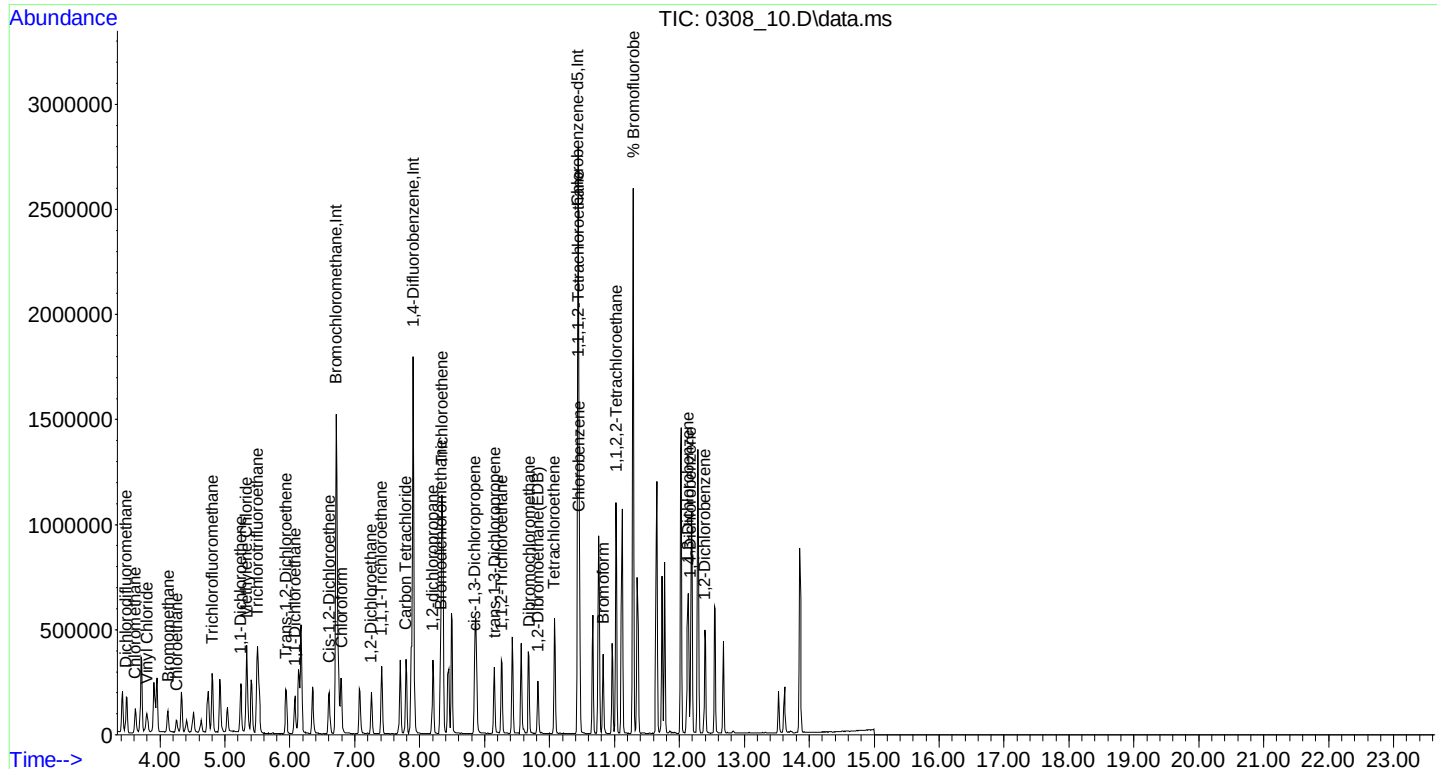
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.206	63	105388	2.187	ppbv	98
98]	Bromodichloromethane(sim)	8.323	83	167169	2.204	ppbv	99
99]	Trichloroethene(sim)	8.351	130	111287	2.320	ppbv	100
101]	cis-1,3-Dichloropropen...	8.852	75	123754	2.455	ppbv	100
102]	1,1,2-Trichloroethane(...	9.259	97	86721	2.247	ppbv	99
103]	Dibromochloromethane(sim)	9.682	129	183240	2.335	ppbv	100
104]	1,2-Dibromoethane(EDB)...	9.822	107	123511	2.395	ppbv	98
105]	Tetrachloroethene(sim)	10.080	166	133261	2.279	ppbv	100
107]	Bromoform(sim)	10.835	173	145620	2.344	ppbv	99
109]	1,1,2,2-Tetrachloroeth...	11.030	83	213359	2.378	ppbv	100
113]	1,3-Dichlorobenzene(sim)	12.138	146	190934	2.847	ppbv	100
114]	1,4-Dichlorobenzene(sim)	12.173	146	140205	2.931	ppbv	99
117]	1,2-Dichlorobenzene(sim)	12.394	146	183887	2.744	ppbv	100

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_10.D
 Acq On : 8 Mar 2021 9:15 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 09 12:17:53 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 11:17:41 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_11.D
 Acq On : 8 Mar 2021 9:51 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 12:17:29 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 11:17:13 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.722	130	286689	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.908	114	1086910	10.000	ng	0.00
54) Chlorobenzene-d5	10.438	82	534994	10.000	ng	0.00
81) Bromochloromethane(sim)	6.728	130	334177	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.908	114	1086910	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.438	82	534994	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.288 95 645109 10.694 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 106.90%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	3.489	85	420888	5.825	ppbv	99
4) Chloromethane	3.629	50	289775	5.211	ppbv	98
6) Vinyl Chloride	3.801	62	207278	5.362	ppbv	100
8) Bromomethane	4.125	94	139843	5.163	ppbv	99
9) Chloroethane	4.265	64	98622	5.357	ppbv	98
13) Trichlorofluoromethane	4.815	101	480940	5.345	ppbv	99
16) 1,1-Dichloroethene	5.252	61	354622	5.205	ppbv	97
17) Methylene Chloride	5.338	49	379805	5.101	ppbv	99
21) Trichlorotrifluoroethane	5.511	101	335399	5.257	ppbv	99
22) Trans-1,2-Dichloroethene	5.946	61	286993	5.301	ppbv	99
23) 1,1-Dichloroethane	6.080	63	342826	5.319	ppbv	99
27) Cis-1,2-Dichloroethene	6.608	61	273895	5.244	ppbv	99
29) Chloroform	6.795	83	344889	5.279	ppbv	99
32) 1,2-Dichloroethane	7.264	62	287479	5.278	ppbv	99
33) 1,1,1-Trichloroethane	7.420	97	367811	5.340	ppbv	98
35) Carbon Tetrachloride	7.797	117	395088	5.278	ppbv	99
38) 1,2-dichloropropane	8.209	63	219526	5.256	ppbv	95
39) Bromodichloromethane	8.321	83	379289	5.215	ppbv	98
40) Trichloroethene	8.343	130	223632	5.480	ppbv	99
45) cis-1,3-Dichloropropene	8.855	75	269700	5.374	ppbv	99
47) trans-1,3-Dichloropropene	9.150	75	292746	5.412	ppbv	99
48) 1,1,2-Trichloroethane	9.267	97	198211	5.358	ppbv	99
50) Dibromochloromethane	9.684	129	370899	5.223	ppbv	99
52) 1,2-Dibromoethane(EDB)	9.829	107	301303	5.484	ppbv	99
53) Tetrachloroethene	10.082	166	260188	5.322	ppbv	97
55) 1,1,1,2-Tetrachloroethane	10.448	131	270010	5.428	ppbv	98
56) Chlorobenzene	10.468	112	465424	5.467	ppbv	99
59) Bromoform	10.827	173	293122	5.432	ppbv	99
61) 1,1,2,2-Tetrachloroethane	11.022	83	441775	5.643	ppbv	100
72) 1,3-Dichlorobenzene	12.140	146	414140	6.057	ppbv	97
73) 1,4-Dichlorobenzene	12.181	146	315740	5.352	ppbv	98
76) 1,2-Dichlorobenzene	12.396	146	379788	5.843	ppbv	98
83) Vinyl Chloride(sim)	3.807	62	229180	5.067	ppbv	100
84) Bromomethane(sim)	4.125	94	139843	4.653	ppbv	99
85) Trichlorofluoromethane...	4.820	101	528171	5.104	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.264	62	287479	5.115	ppbv	99
87) 1,1,1-Trichloroethane(...)	7.426	97	405874	5.059	ppbv#	100
89) Carbon Tetrachloride(sim)	7.803	117	443576	5.125	ppbv	100
90) 1,1-Dichloroethene(sim)	5.252	61	354622	4.752	ppbv	97
91) Trichlorotrifluoroetha...	5.508	101	374652	4.926	ppbv#	100
92) Trans-1,2-Dichloroethe...	5.946	61	286993	5.410	ppbv	99
93) 1,1-Dichloroethane(sim)	6.086	63	383085	5.067	ppbv	100
94) Cis-1,2-Dichloroethene...	6.608	61	273895	5.462	ppbv	99
95) Chloroform(sim)	6.801	83	382237	5.054	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_11.D
 Acq On : 8 Mar 2021 9:51 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 12:17:29 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 11:17:13 2021
 Response via : Initial Calibration

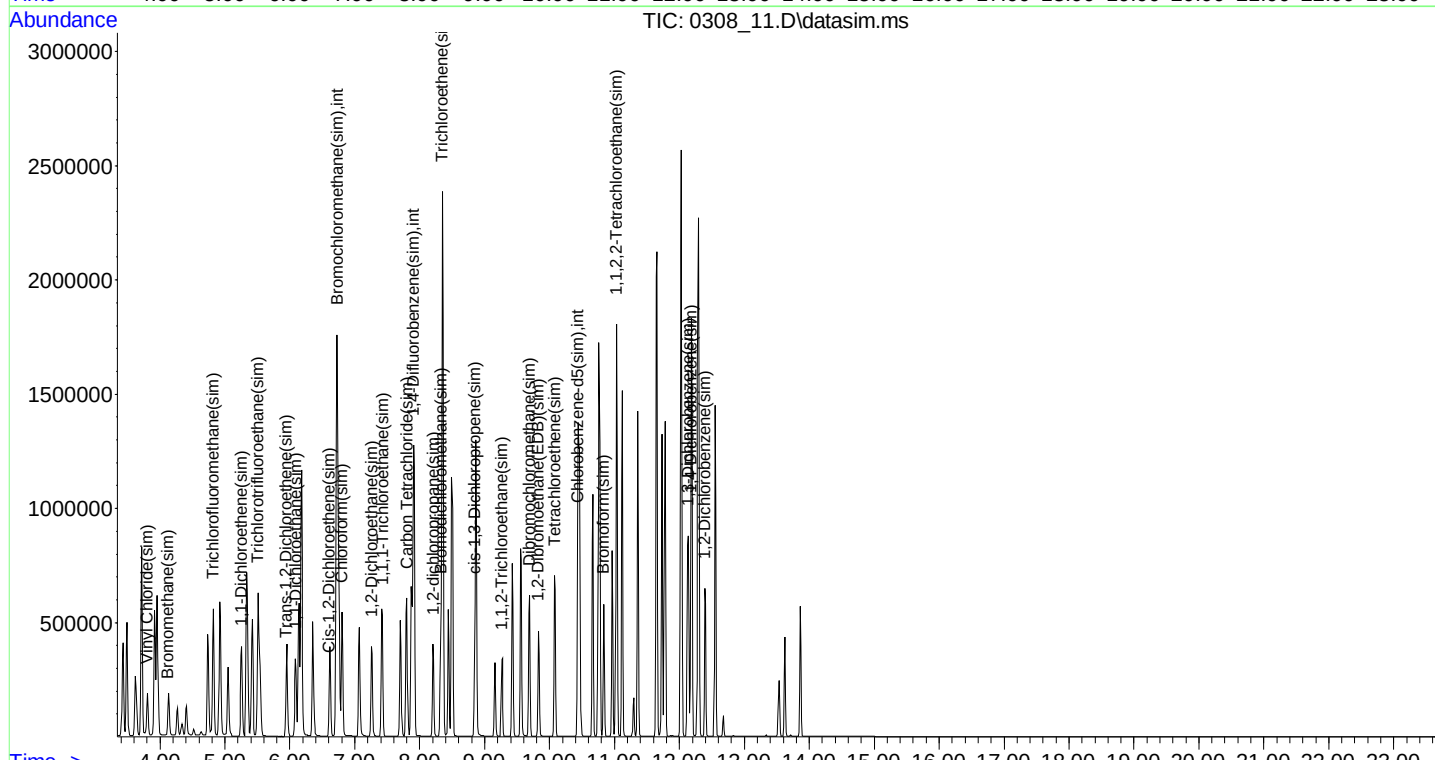
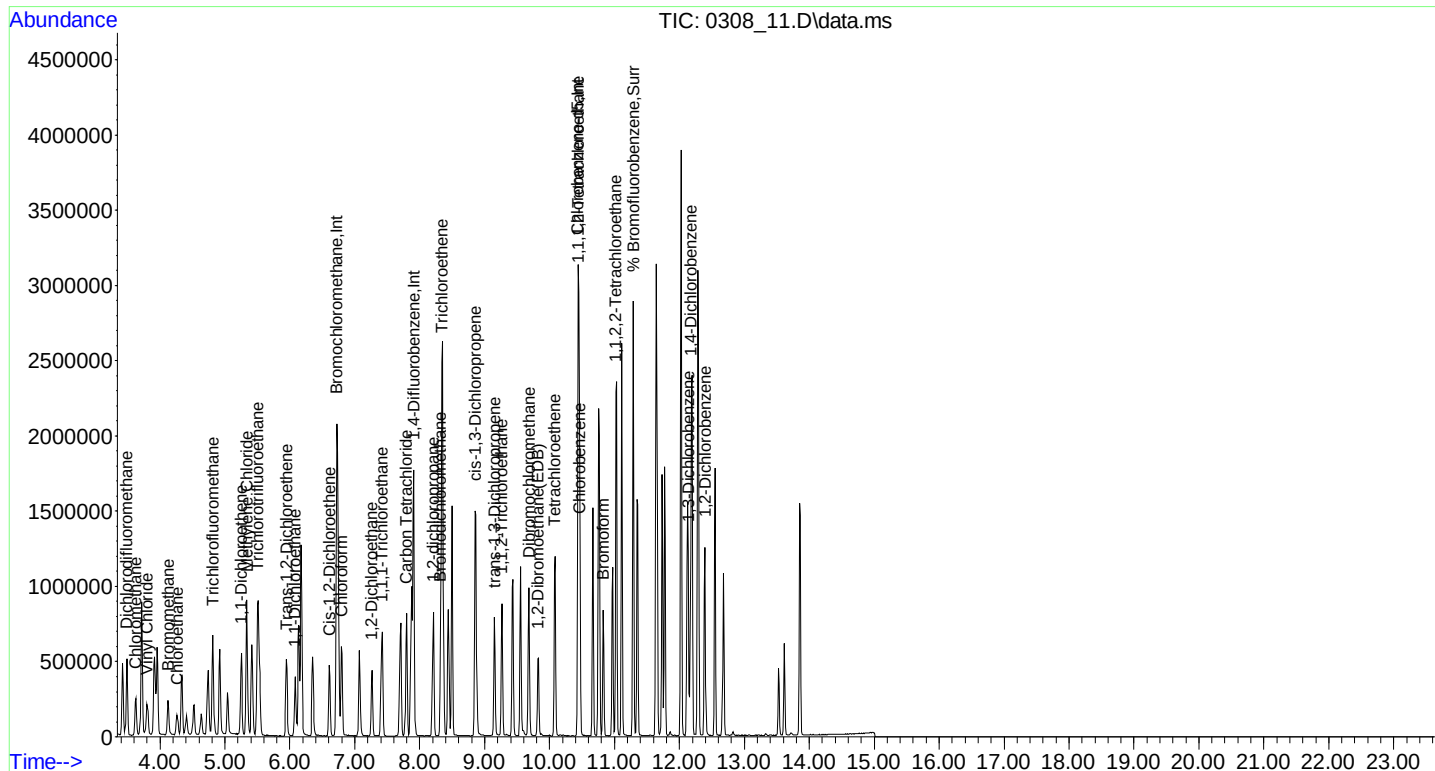
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.204	63	246657	4.972	ppbv	97
98]	Bromodichloromethane(sim)	8.321	83	379289	4.856	ppbv	98
99]	Trichloroethene(sim)	8.348	130	261618	5.296	ppbv	99
101]	cis-1,3-Dichloropropen...	8.850	75	307659	5.926	ppbv	99
102]	1,1,2-Trichloroethane(...	9.267	97	198211	4.989	ppbv	99
103]	Dibromochloromethane(sim)	9.689	129	432112	5.347	ppbv	100
104]	1,2-Dibromoethane(EDB)...	9.829	107	301303	5.675	ppbv	99
105]	Tetrachloroethene(sim)	10.078	166	310249	5.153	ppbv	99
107]	Bromoform(sim)	10.833	173	339786	5.194	ppbv	100
109]	1,1,2,2-Tetrachloroeth...	11.027	83	489443	5.181	ppbv	100
113]	1,3-Dichlorobenzene(sim)	12.135	146	454376	6.434	ppbv	99
114]	1,4-Dichlorobenzene(sim)	12.181	146	316067	6.274	ppbv	98
117]	1,2-Dichlorobenzene(sim)	12.392	146	439717	6.232	ppbv	100

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_11.D
 Acq On : 8 Mar 2021 9:51 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 09 12:17:29 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 11:17:13 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_12.D
 Acq On : 8 Mar 2021 10:30 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 12:16:55 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 11:15:17 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.725	130	306224	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.911	114	1177891	10.000	ng	0.00
54) Chlorobenzene-d5	10.440	82	700286	10.000	ng	0.00
81) Bromochloromethane(sim)	6.731	130	356966	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.911	114	1178395	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.440	82	700165	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.291	95	777117	9.789	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.90%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	3.489	85	1991644	25.805	ppbv	100
4) Chloromethane	3.618	50	1418413	23.880	ppbv	100
6) Vinyl Chloride	3.802	62	1009385	24.447	ppbv	100
8) Bromomethane	4.125	94	691958	23.919	ppbv	100
9) Chloroethane	4.265	64	468367	23.816	ppbv	99
13) Trichlorofluoromethane	4.815	101	2322978	24.170	ppbv	99
16) 1,1-Dichloroethene	5.252	61	1827816	25.116	ppbv	99
17) Methylene Chloride	5.338	49	1906926	23.975	ppbv	98
21) Trichlorotrifluoroethane	5.511	101	1673823	24.560	ppbv	99
22) Trans-1,2-Dichloroethene	5.955	61	1503816	26.003	ppbv	99
23) 1,1-Dichloroethane	6.089	63	1713997	24.896	ppbv	100
27) Cis-1,2-Dichloroethene	6.621	61	1454299	26.068	ppbv	94
29) Chloroform	6.808	83	1753744	25.130	ppbv	99
32) 1,2-Dichloroethane	7.267	62	1479651	25.435	ppbv	99
33) 1,1,1-Trichloroethane	7.423	97	1850544	25.153	ppbv	100
35) Carbon Tetrachloride	7.800	117	2054245	25.693	ppbv	100
38) 1,2-dichloropropane	8.212	63	1153961	25.494	ppbv	99
39) Bromodichloromethane	8.323	83	2037909	25.857	ppbv	99
40) Trichloroethene	8.345	130	1142895	25.845	ppbv	99
45) cis-1,3-Dichloropropene	8.858	75	1510637	27.778	ppbv	100
47) trans-1,3-Dichloropropene	9.153	75	1637724	27.936	ppbv	99
48) 1,1,2-Trichloroethane	9.269	97	1028168	25.645	ppbv	98
50) Dibromochloromethane	9.687	129	2082332	27.057	ppbv	99
52) 1,2-Dibromoethane(EDB)	9.822	107	1637714	27.507	ppbv	100
53) Tetrachloroethene	10.084	166	1375268	25.955	ppbv	99
55) 1,1,1,2-Tetrachloroethane	10.451	131	1452606	22.307	ppbv	100
56) Chlorobenzene	10.461	112	2492316	22.363	ppbv	100
59) Bromoform	10.830	173	1716435	24.300	ppbv	100
61) 1,1,2,2-Tetrachloroethane	11.025	83	2421932	23.633	ppbv	99
72) 1,3-Dichlorobenzene	12.142	146	2288685	25.572	ppbv	99
73) 1,4-Dichlorobenzene	12.173	146	2226785	28.839	ppbv	99
76) 1,2-Dichlorobenzene	12.399	146	2229480	26.206	ppbv	99
83) Vinyl Chloride(sim)	3.807	62	1126397	23.316	ppbv	100
84) Bromomethane(sim)	4.125	94	691958	21.553	ppbv	100
85) Trichlorofluoromethane...	4.820	101	2571229	23.261	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.267	62	1479651	24.647	ppbv	99
87) 1,1,1-Trichloroethane(...	7.429	97	2071125	24.168	ppbv#	100
89) Carbon Tetrachloride(sim)	7.805	117	2281066	24.671	ppbv	100
90) 1,1-Dichloroethene(sim)	5.252	61	1827816	22.932	ppbv	99
91) Trichlorotrifluoroetha...	5.516	101	1856914	22.857	ppbv#	100
92) Trans-1,2-Dichloroethe...	5.955	61	1503816	26.538	ppbv	99
93) 1,1-Dichloroethane(sim)	6.094	63	1912036	23.677	ppbv	100
94) Cis-1,2-Dichloroethene...	6.621	61	1454299	27.150	ppbv	94
95) Chloroform(sim)	6.814	83	1929862	23.890	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_12.D
 Acq On : 8 Mar 2021 10:30 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 09 12:16:55 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 11:15:17 2021
 Response via : Initial Calibration

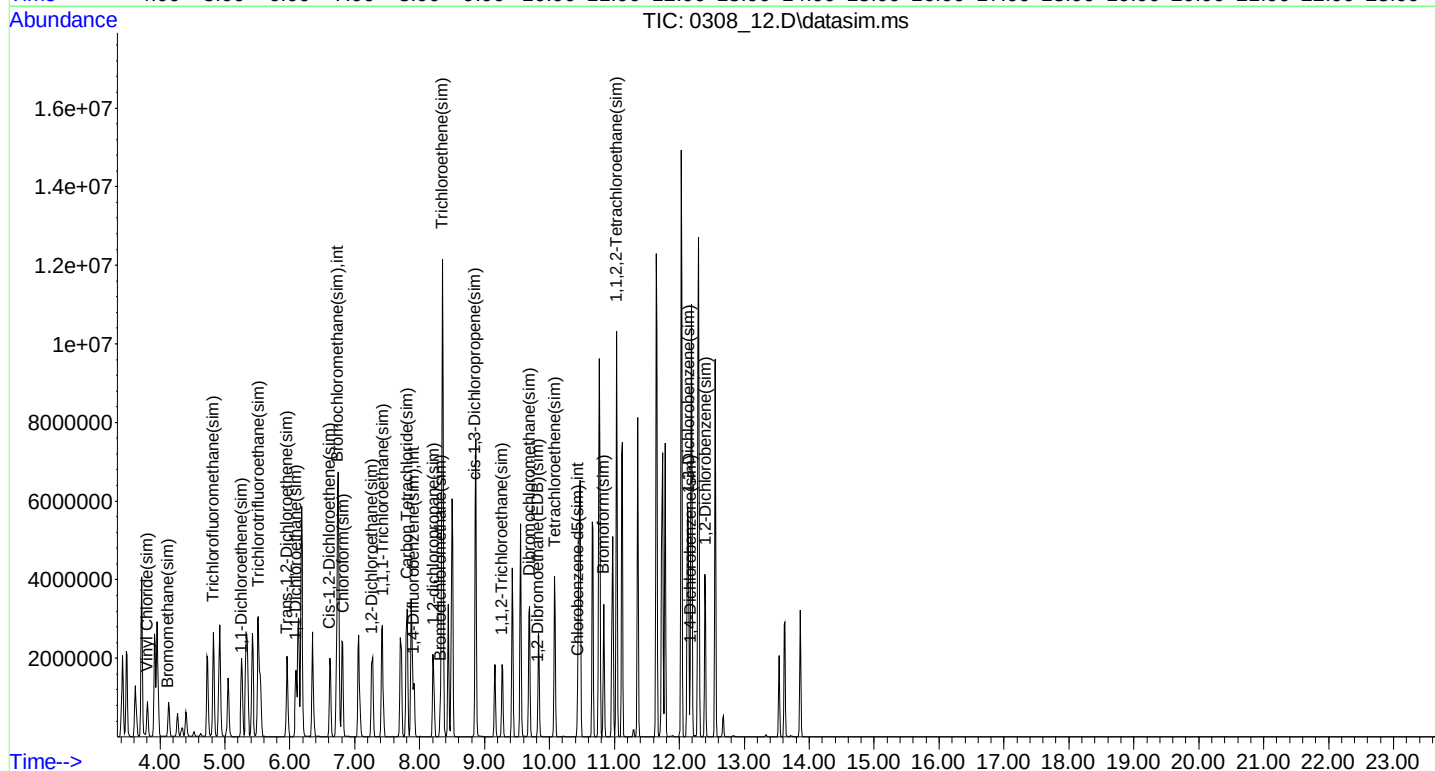
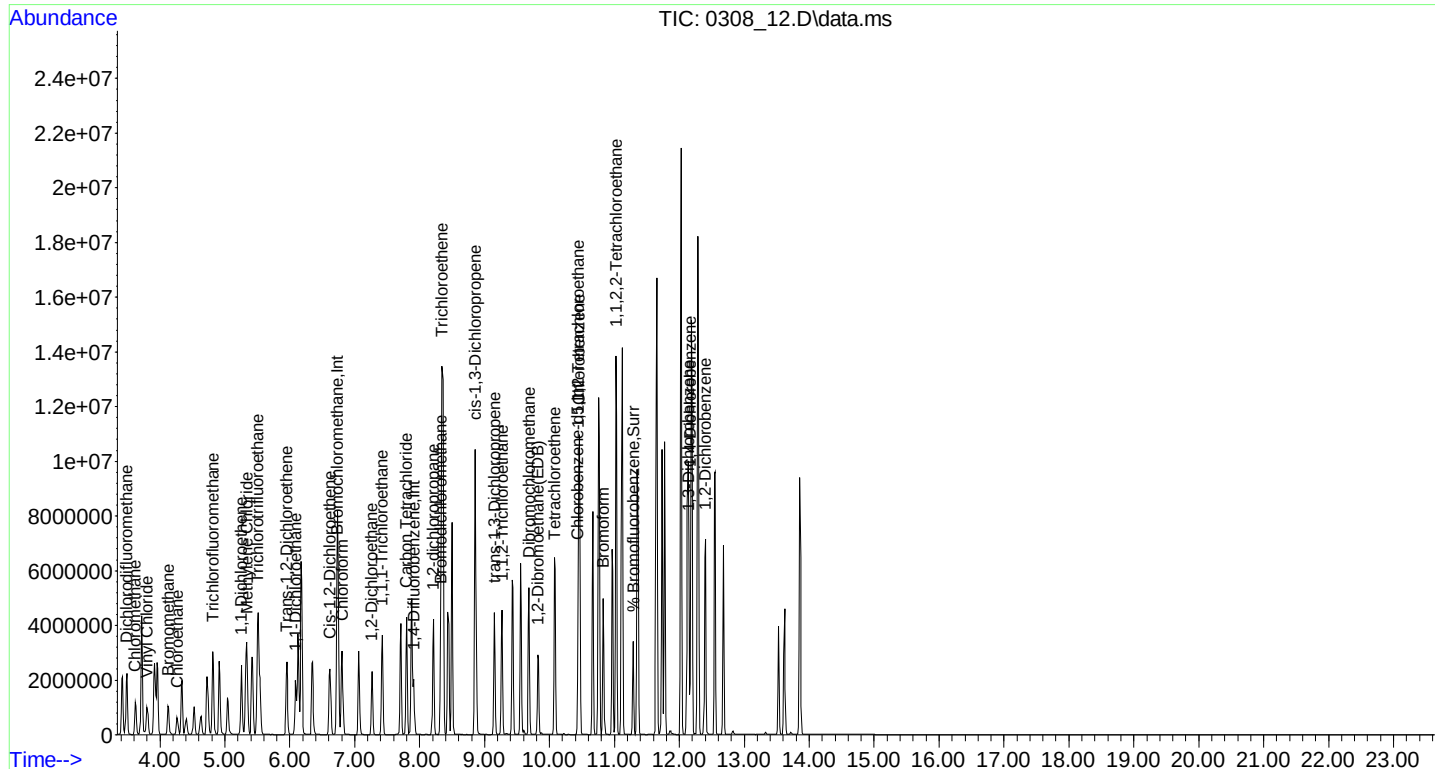
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.206	63	1290394	23.992	ppbv	99
98]	Bromodichloromethane(sim)	8.323	83	2037909	24.065	ppbv	99
99]	Trichloroethene(sim)	8.351	130	1323977	24.722	ppbv	99
101]	cis-1,3-Dichloropropen...	8.852	75	1707022	30.329	ppbv	100
102]	1,1,2-Trichloroethane(...	9.269	97	1028168	23.868	ppbv	98
103]	Dibromochloromethane(sim)	9.692	129	2385403	27.225	ppbv	100
104]	1,2-Dibromoethane(EDB)...	9.822	107	1637714	28.453	ppbv	100
105]	Tetrachloroethene(sim)	10.080	166	1664791	25.503	ppbv	99
107]	Bromoform(sim)	10.835	173	1961195	22.905	ppbv	100
109]	1,1,2,2-Tetrachloroeth...	11.030	83	2681677	21.692	ppbv	100
113]	1,3-Dichlorobenzene(sim)	12.138	146	2726607	29.501	ppbv	99
114]	1,4-Dichlorobenzene(sim)	12.173	146	2227519	33.788	ppbv	99
117]	1,2-Dichlorobenzene(sim)	12.394	146	2614617	28.314	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:\AIR2021\CHEM20\03MAR\08A\  
Data File : 0308_12.D  
Acq On : 8 Mar 2021 10:30 pm  
Operator :  
Client ID : ICAL 25  
Lab ID : 25  
ALS Vial : 11 Sample Multiplier: 1
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Quant Time: Mar 09 12:16:55 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 09 11:15:17 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_13.D
 Acq On : 8 Mar 2021 11:10 pm
 Operator :
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 12:16:16 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 11:16:02 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.722	130	314785	10.000	ng	0.01
37) 1,4-Difluorobenzene	7.909	114	1237755	10.000	ng	0.00
54) Chlorobenzene-d5	10.438	82	811914	10.000	ng	0.00
81) Bromochloromethane(sim)	6.728	130	370349	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	7.909	114	1237755	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.438	82	812328	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.288	95	828871	8.579	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	85.80%

Target Compounds					Qvalue	
3) Dichlorodifluoromethane	3.478	85	2521846	31.786	ppbv	99
4) Chloromethane	3.607	50	2290381	37.512	ppbv	100
6) Vinyl Chloride	3.791	62	1729345	40.745	ppbv	100
8) Bromomethane	4.114	94	1197122	40.256	ppbv	100
9) Chloroethane	4.254	64	810694	40.102	ppbv	99
13) Trichlorofluoromethane	4.804	101	3989967	40.386	ppbv	99
16) 1,1-Dichloroethene	5.252	61	3071140	41.053	ppbv	100
17) Methylene Chloride	5.338	49	3272616	40.027	ppbv	99
21) Trichlorotrifluoroethane	5.502	101	2836382	40.486	ppbv	99
22) Trans-1,2-Dichloroethene	5.947	61	2592513	43.609	ppbv	99
23) 1,1-Dichloroethane	6.088	63	2858699	40.394	ppbv	100
27) Cis-1,2-Dichloroethene	6.618	61	2672780	46.607	ppbv	92
29) Chloroform	6.806	83	2930836	40.854	ppbv	100
32) 1,2-Dichloroethane	7.264	62	2517377	42.096	ppbv	99
33) 1,1,1-Trichloroethane	7.420	97	3155057	41.718	ppbv	99
35) Carbon Tetrachloride	7.797	117	3512371	42.736	ppbv	99
38) 1,2-dichloropropane	8.209	63	1938431	40.754	ppbv	98
39) Bromodichloromethane	8.332	83	3466985	41.861	ppbv	99
40) Trichloroethene	8.343	130	1899106	40.869	ppbv	99
45) cis-1,3-Dichloropropene	8.855	75	2553921	44.690	ppbv	99
47) trans-1,3-Dichloropropene	9.150	75	2758163	44.772	ppbv	95
48) 1,1,2-Trichloroethane	9.267	97	1736692	41.222	ppbv	100
50) Dibromochloromethane	9.684	129	3566480	44.100	ppbv	99
52) 1,2-Dibromoethane(EDB)	9.830	107	2802388	44.792	ppbv	100
53) Tetrachloroethene	10.082	166	2351171	42.227	ppbv	98
55) 1,1,1,2-Tetrachloroethane	10.458	131	2473673	32.764	ppbv	99
56) Chlorobenzene	10.469	112	4274701	33.083	ppbv	100
59) Bromoform	10.837	173	2954907	36.082	ppbv	100
61) 1,1,2,2-Tetrachloroethane	11.032	83	4051137	34.096	ppbv	99
72) 1,3-Dichlorobenzene	12.140	146	4147014	39.965	ppbv	99
73) 1,4-Dichlorobenzene	12.181	146	3732731	41.695	ppbv	99
76) 1,2-Dichlorobenzene	12.396	146	3853271	39.065	ppbv	99
83) Vinyl Chloride(sim)	3.796	62	1935824	38.623	ppbv	100
84) Bromomethane(sim)	4.114	94	1197122	35.940	ppbv	100
85) Trichlorofluoromethane...	4.809	101	4353837	37.964	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.264	62	2517377	40.418	ppbv	99
87) 1,1,1-Trichloroethane(...)	7.426	97	3497502	39.338	ppbv#	100
89) Carbon Tetrachloride(sim)	7.803	117	3862445	40.264	ppbv	100
90) 1,1-Dichloroethene(sim)	5.252	61	3071140	37.138	ppbv	100
91) Trichlorotrifluoroetha...	5.508	101	3108042	36.874	ppbv#	99
92) Trans-1,2-Dichloroethe...	5.947	61	2592513	44.098	ppbv	99
93) 1,1-Dichloroethane(sim)	6.094	63	3205213	38.256	ppbv	100
94) Cis-1,2-Dichloroethene...	6.618	61	2672780	48.095	ppbv	92
95) Chloroform(sim)	6.811	83	3242414	38.688	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_13.D
 Acq On : 8 Mar 2021 11:10 pm
 Operator :
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 12:16:16 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 11:16:02 2021
 Response via : Initial Calibration

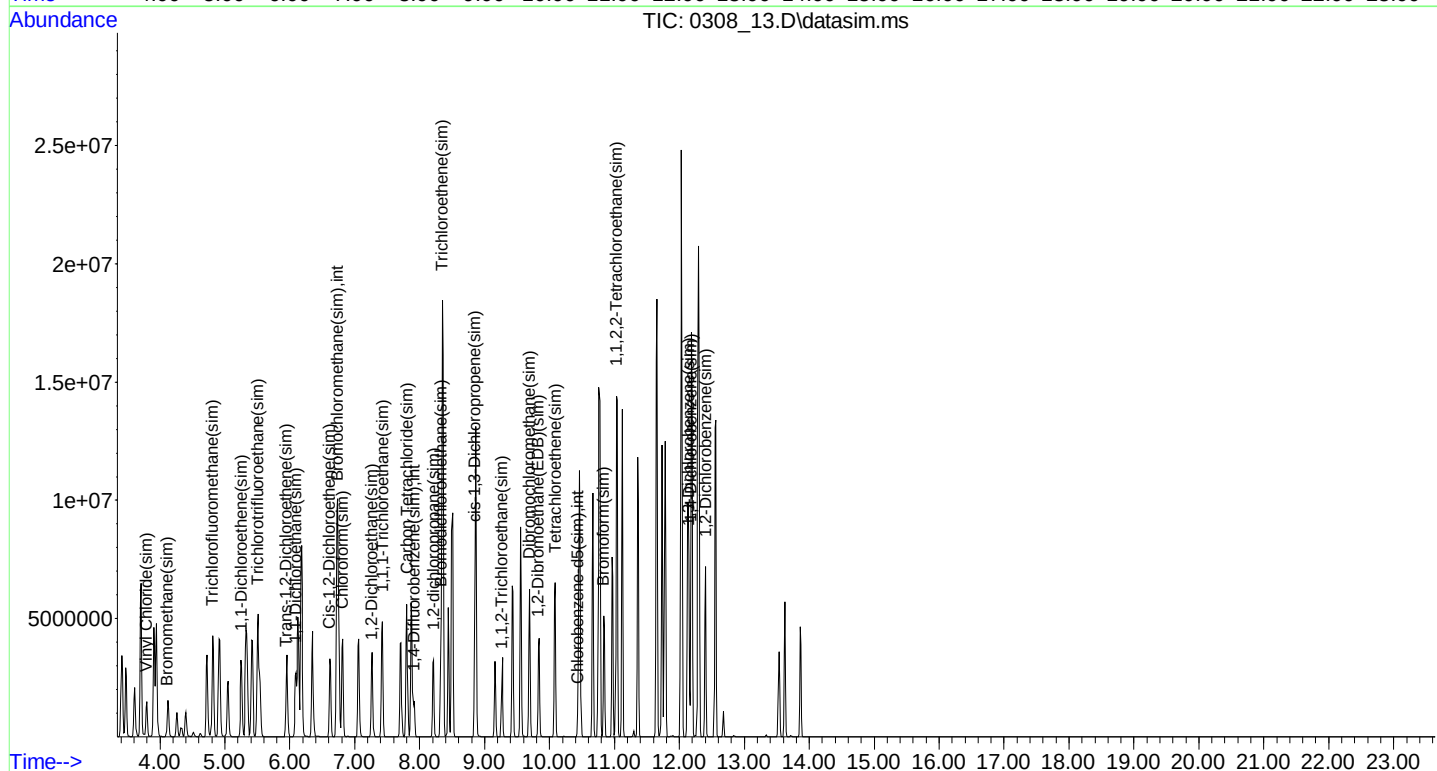
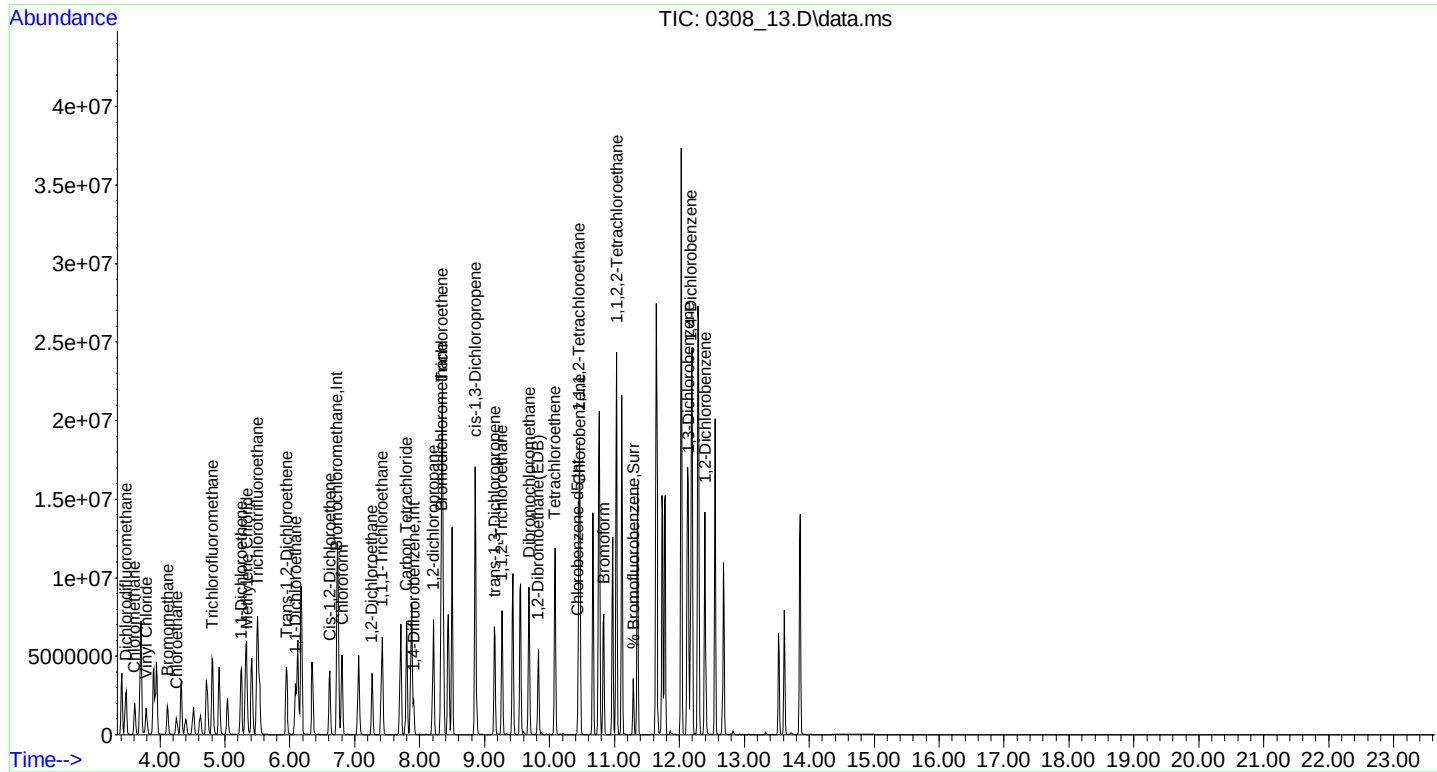
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.215	63	2160607	38.246	ppbv	99
98]	Bromodichloromethane(sim)	8.332	83	3466985	38.977	ppbv	99
99]	Trichloroethene(sim)	8.348	130	2189711	38.926	ppbv	98
101]	cis-1,3-Dichloropropen...	8.850	75	2893259	48.940	ppbv	99
102]	1,1,2-Trichloroethane(...	9.267	97	1736785	38.384	ppbv	100
103]	Dibromochloromethane(sim)	9.690	129	4081326	44.347	ppbv	100
104]	1,2-Dibromoethane(EDB)...	9.830	107	2802388	46.352	ppbv	100
105]	Tetrachloroethene(sim)	10.087	166	2802681	40.876	ppbv	99
107]	Bromoform(sim)	10.833	173	3375102	33.975	ppbv	100
109]	1,1,2,2-Tetrachloroeth...	11.028	83	4450451	31.029	ppbv	100
113]	1,3-Dichlorobenzene(sim)	12.145	146	4962406	46.278	ppbv	99
114]	1,4-Dichlorobenzene(sim)	12.181	146	3732731	48.802	ppbv	99
117]	1,2-Dichlorobenzene(sim)	12.402	146	4459533	41.625	ppbv	99

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_13.D
 Acq On : 8 Mar 2021 11:10 pm
 Operator :
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 12:16:16 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 11:16:02 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_15.D
 Acq On : 9 Mar 2021 12:21 am
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0ppb cc
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 09 12:15:03 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 01 08:40:43 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.704	130	305920	10.000	ng	-0.02
37) 1,4-Difluorobenzene	7.900	114	1166124	10.000	ng	-0.01
54) Chlorobenzene-d5	10.440	82	541768	10.000	ng	0.00
81) Bromochloromethane(sim)	6.710	130	352756	10.000	ng	#-0.01
96) 1,4-Difluorobenzene(sim)	7.900	114	1166301	10.000	ng	-0.01
106) Chlorobenzene-d5(sim)	10.440	82	541768	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.291 95 641716 10.076 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	3.478	85	80716	1.047	ppbv	96
4) Chloromethane	3.618	50	57605	0.971	ppbv	100
6) Vinyl Chloride	3.791	62	39806	0.965	ppbv	92
8) Bromomethane	4.114	94	27899	0.965	ppbv	98
9) Chloroethane	4.254	64	19217	0.978	ppbv	90
13) Trichlorofluoromethane	4.804	101	94730	0.987	ppbv	96
16) 1,1-Dichloroethene	5.235	61	73042	1.005	ppbv#	80
17) Methylene Chloride	5.321	49	78516	0.988	ppbv#	88
21) Trichlorotrifluoroethane	5.494	101	67490	0.991	ppbv	98
22) Trans-1,2-Dichloroethene	5.939	61	57206	0.990	ppbv	89
23) 1,1-Dichloroethane	6.073	63	68273	0.993	ppbv	96
27) Cis-1,2-Dichloroethene	6.600	61	54475	0.977	ppbv	90
29) Chloroform	6.788	83	65244	0.936	ppbv	94
32) 1,2-Dichloroethane	7.256	62	56951	0.980	ppbv	92
33) 1,1,1-Trichloroethane	7.413	97	70722	0.962	ppbv	92
35) Carbon Tetrachloride	7.789	117	78186	0.979	ppbv	93
38) 1,2-dichloropropane	8.201	63	43777	0.977	ppbv	90
39) Bromodichloromethane	8.323	83	71662	0.918	ppbv	94
40) Trichloroethene	8.334	130	43390	0.991	ppbv	99
45) cis-1,3-Dichloropropene	8.847	75	50772	0.943	ppbv	98
47) trans-1,3-Dichloropropene	9.153	75	59102	1.018	ppbv	98
48) 1,1,2-Trichloroethane	9.260	97	37156	0.936	ppbv	96
50) Dibromochloromethane	9.677	129	70555	0.926	ppbv	99
52) 1,2-Dibromoethane(EDB)	9.822	107	54857	0.931	ppbv	98
53) Tetrachloroethene	10.075	166	51228	0.977	ppbv	97
55) 1,1,1,2-Tetrachloroethane	10.451	131	52468	1.041	ppbv	93
56) Chlorobenzene	10.461	112	90960	1.055	ppbv#	73
59) Bromoform	10.830	173	56073	1.026	ppbv	98
61) 1,1,2,2-Tetrachloroethane	11.025	83	81634	1.030	ppbv	93
72) 1,3-Dichlorobenzene	12.132	146	67637	0.977	ppbv	95
73) 1,4-Dichlorobenzene	12.173	146	62664	1.049	ppbv	96
76) 1,2-Dichlorobenzene	12.389	146	63758	0.969	ppbv	95
83] Vinyl Chloride(sim)	3.796	62	44504	0.932	ppbv	99
84] Bromomethane(sim)	4.114	94	27899	0.879	ppbv#	97
85] Trichlorofluoromethane...	4.799	101	103259	0.945	ppbv#	99
86] 1,2-Dichloroethane(sim)	7.256	62	56951	0.960	ppbv	92
87] 1,1,1-Trichloroethane(...	7.408	97	79764	0.942	ppbv#	97
89] Carbon Tetrachloride(sim)	7.794	117	86245	0.944	ppbv	99
90] 1,1-Dichloroethene(sim)	5.235	61	73042	0.927	ppbv#	79
91] Trichlorotrifluoroetha...	5.499	101	73259	0.913	ppbv#	99
92] Trans-1,2-Dichloroethe...	5.939	61	57206	1.022	ppbv	89
93] 1,1-Dichloroethane(sim)	6.078	63	75771	0.949	ppbv	98
94] Cis-1,2-Dichloroethene...	6.600	61	54475	1.029	ppbv	91
95] Chloroform(sim)	6.793	83	74480	0.933	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_15.D
 Acq On : 9 Mar 2021 12:21 am
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0ppb cc
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 09 12:15:03 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Mar 01 08:40:43 2021
 Response via : Initial Calibration

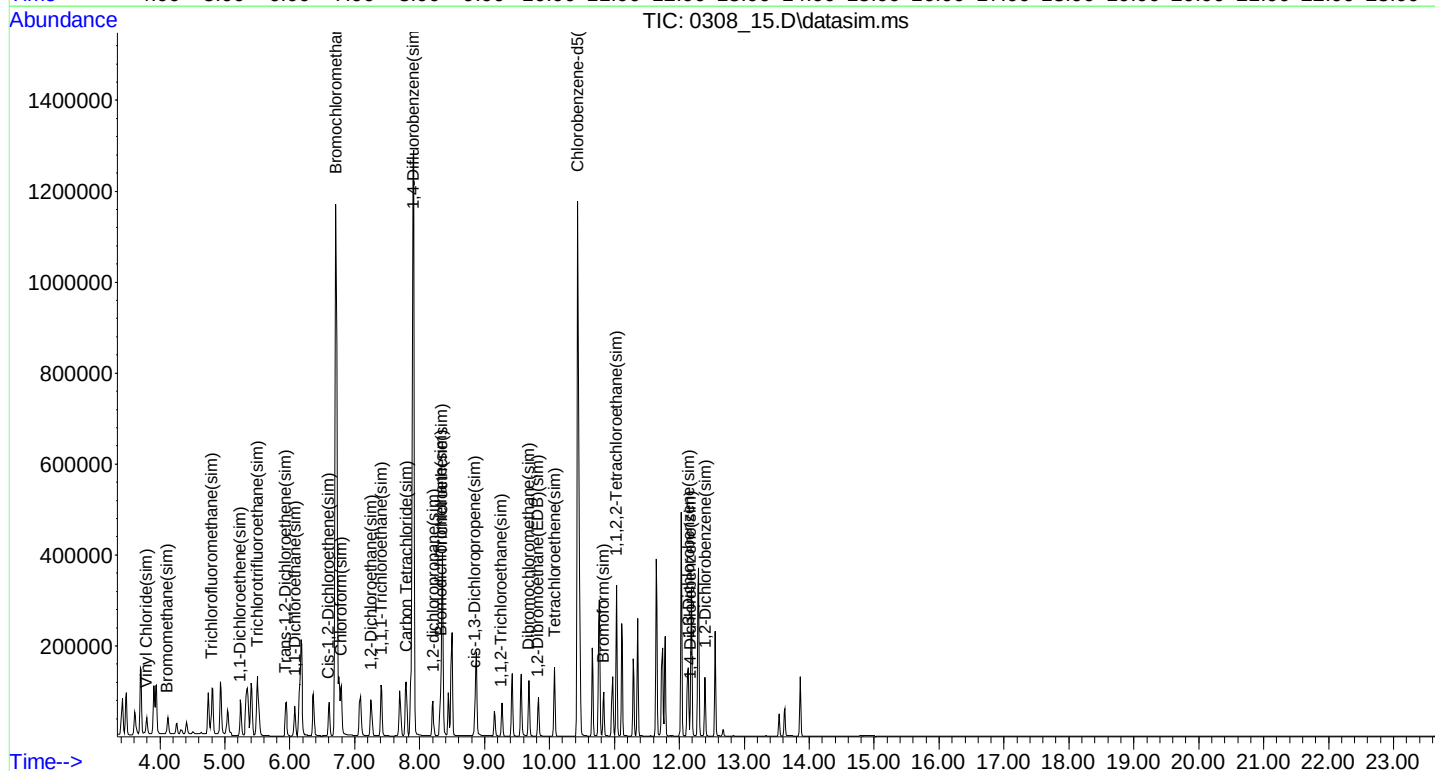
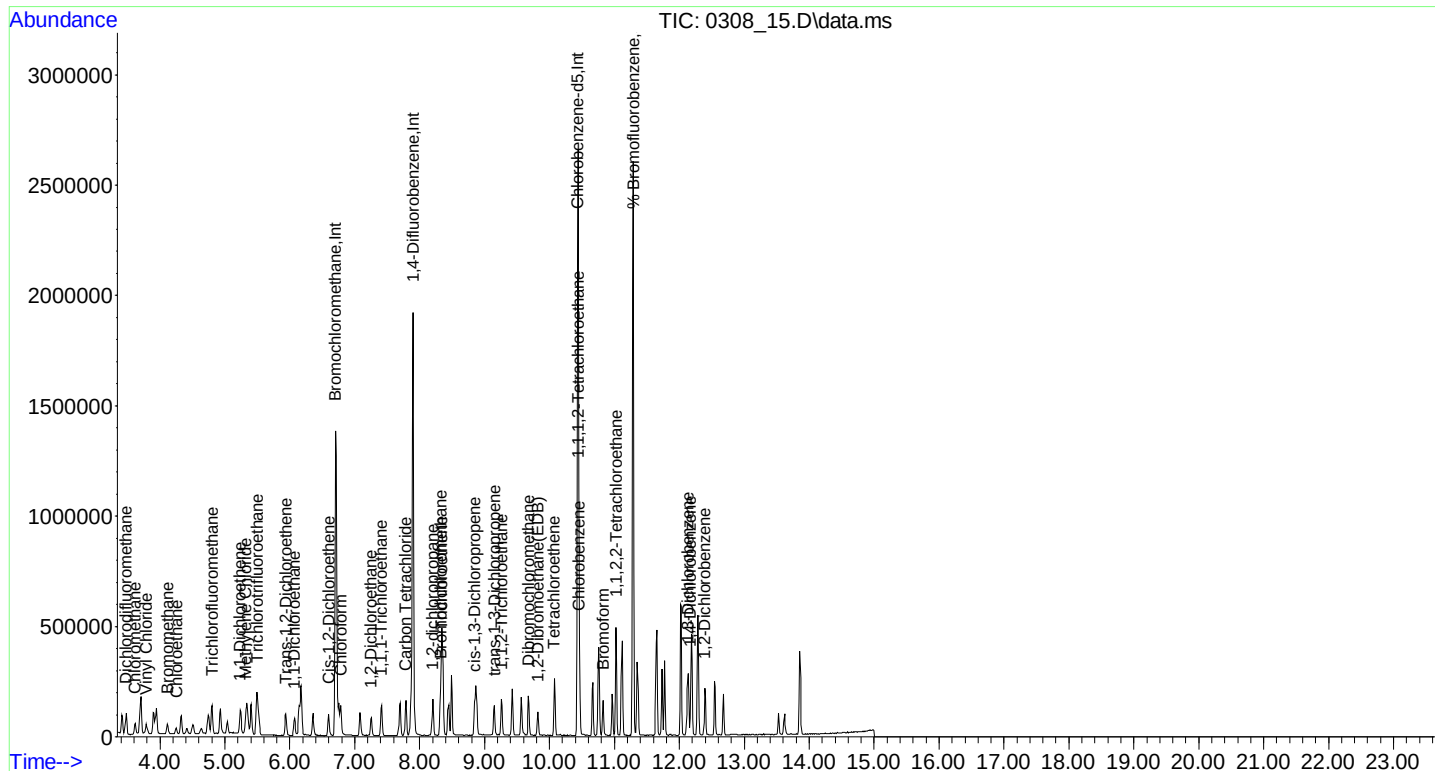
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.206	63	47746	0.897	ppbv#	87
98]	Bromodichloromethane(sim)	8.323	83	71662	0.855	ppbv	92
99]	Trichloroethene(sim)	8.340	130	49694	0.938	ppbv	99
101]	cis-1,3-Dichloropropen...	8.852	75	56756	1.019	ppbv	98
102]	1,1,2-Trichloroethane(...	9.260	97	37046	0.869	ppbv	96
103]	Dibromochloromethane(sim)	9.682	129	79951	0.922	ppbv	100
104]	1,2-Dibromoethane(EDB)...	9.822	107	54630	0.959	ppbv	98
105]	Tetrachloroethene(sim)	10.080	166	60844	0.942	ppbv	99
107]	Bromoform(sim)	10.835	173	60840	0.918	ppbv	100
109]	1,1,2,2-Tetrachloroeth...	11.030	83	88921	0.930	ppbv	99
113]	1,3-Dichlorobenzene(sim)	12.138	146	81108	1.134	ppbv	99
114]	1,4-Dichlorobenzene(sim)	12.173	146	62664	1.228	ppbv	96
117]	1,2-Dichlorobenzene(sim)	12.394	146	78251	1.095	ppbv	98

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

Quantitation Report (RF) (QT Reviewed)

```
Data Path : H:\AIR2021\CHEM20\03MAR\08A\  
Data File : 0308_15.D  
Acq On : 9 Mar 2021 12:21 am  
Operator :  
Client ID : ICAL 1  
Lab ID : 1.0ppb cc  
ALS Vial : 14 Sample Multiplier: 1
```

Quant Time: Mar 09 12:15:03 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 01 08:40:43 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_16.D
 Acq On : 9 Mar 2021 12:58 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10ppb cc
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 09 12:15:51 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 11:15:39 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.712	130	307472	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.909	114	1171534	10.000	ng	0.00
54) Chlorobenzene-d5	10.438	82	603693	10.000	ng	0.00
81) Bromochloromethane(sim)	6.718	130	355389	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.909	114	1171534	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.438	82	603814	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.289	95	721654	10.092	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.90%

Target Compounds					Qvalue	
3) Dichlorodifluoromethane	3.478	85	822076	10.608	ppbv	99
4) Chloromethane	3.607	50	576126	9.660	ppbv	98
6) Vinyl Chloride	3.791	62	408767	9.860	ppbv	97
8) Bromomethane	4.114	94	282761	9.735	ppbv	96
9) Chloroethane	4.254	64	195313	9.891	ppbv	99
13) Trichlorofluoromethane	4.804	101	977453	10.129	ppbv	99
16) 1,1-Dichloroethene	5.244	61	750738	10.274	ppbv	99
17) Methylene Chloride	5.330	49	805743	10.089	ppbv	99
21) Trichlorotrifluoroethane	5.494	101	686586	10.033	ppbv	98
22) Trans-1,2-Dichloroethene	5.939	61	618892	10.658	ppbv	100
23) 1,1-Dichloroethane	6.081	63	708769	10.253	ppbv	99
27) Cis-1,2-Dichloroethene	6.608	61	583806	10.422	ppbv	95
29) Chloroform	6.795	83	715765	10.215	ppbv	94
32) 1,2-Dichloroethane	7.254	62	612821	10.491	ppbv	94
33) 1,1,1-Trichloroethane	7.410	97	760273	10.292	ppbv	97
35) Carbon Tetrachloride	7.797	117	845910	10.537	ppbv	98
38) 1,2-dichloropropane	8.209	63	460658	10.233	ppbv	98
39) Bromodichloromethane	8.321	83	811054	10.346	ppbv	96
40) Trichloroethene	8.343	130	471150	10.712	ppbv	97
45) cis-1,3-Dichloropropene	8.855	75	591828	10.942	ppbv	96
47) trans-1,3-Dichloropropene	9.150	75	621839	10.665	ppbv	93
48) 1,1,2-Trichloroethane	9.267	97	415698	10.425	ppbv	98
50) Dibromochloromethane	9.684	129	806766	10.540	ppbv	99
52) 1,2-Dibromoethane(EDB)	9.820	107	634494	10.715	ppbv	100
53) Tetrachloroethene	10.082	166	548869	10.415	ppbv	98
55) 1,1,1,2-Tetrachloroethane	10.448	131	564777	10.061	ppbv	99
56) Chlorobenzene	10.469	112	974200	10.140	ppbv	91
59) Bromoform	10.827	173	640451	10.518	ppbv	95
61) 1,1,2,2-Tetrachloroethane	11.022	83	926970	10.493	ppbv	99
72) 1,3-Dichlorobenzene	12.140	146	914946	11.859	ppbv	99
73) 1,4-Dichlorobenzene	12.181	146	725414	10.898	ppbv	96
76) 1,2-Dichlorobenzene	12.396	146	828061	11.291	ppbv	97
83) Vinyl Chloride(sim)	3.796	62	458285	9.528	ppbv	99
84) Bromomethane(sim)	4.114	94	282761	8.847	ppbv	96
85) Trichlorofluoromethane...	4.809	101	1073216	9.752	ppbv#	100
86) 1,2-Dichloroethane(sim)	7.254	62	612821	10.253	ppbv	94
87) 1,1,1-Trichloroethane(...	7.416	97	843903	9.891	ppbv#	100
89) Carbon Tetrachloride(sim)	7.792	117	927434	10.075	ppbv	100
90) 1,1-Dichloroethene(sim)	5.244	61	750738	9.460	ppbv	99
91) Trichlorotrifluoroetha...	5.499	101	760018	9.397	ppbv#	100
92) Trans-1,2-Dichloroethe...	5.939	61	618892	10.970	ppbv	100
93) 1,1-Dichloroethane(sim)	6.086	63	789897	9.825	ppbv	100
94) Cis-1,2-Dichloroethene...	6.608	61	583806	10.947	ppbv	95
95) Chloroform(sim)	6.801	83	783872	9.747	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_16.D
 Acq On : 9 Mar 2021 12:58 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10ppb cc
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 09 12:15:51 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 11:15:39 2021
 Response via : Initial Calibration

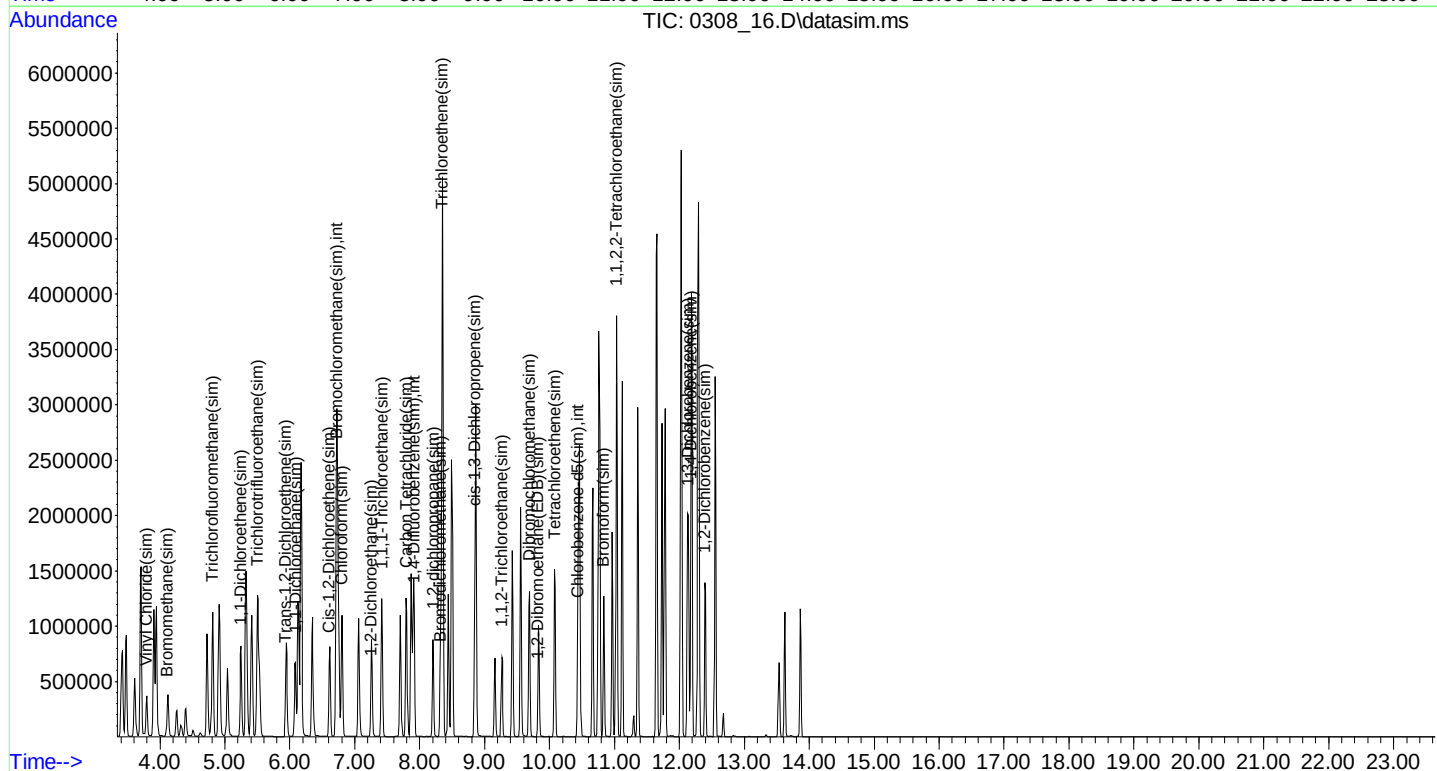
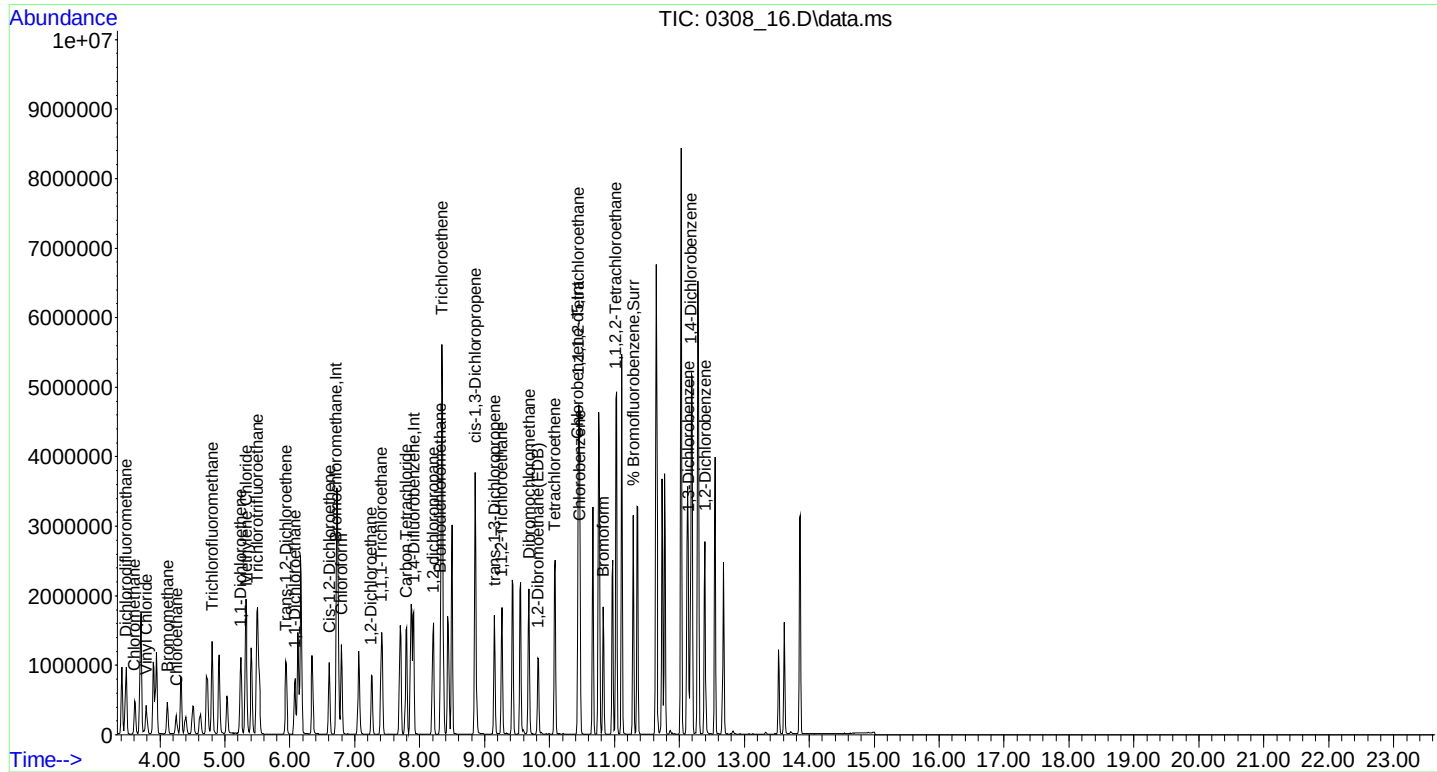
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.204	63	520092	9.727	ppbv	98
98]	Bromodichloromethane(sim)	8.321	83	811054	9.634	ppbv	96
99]	Trichloroethene(sim)	8.349	130	544408	10.225	ppbv	100
101]	cis-1,3-Dichloropropen...	8.850	75	668444	11.946	ppbv	100
102]	1,1,2-Trichloroethane(...	9.267	97	415698	9.707	ppbv	98
103]	Dibromochloromethane(sim)	9.690	129	926614	10.637	ppbv	99
104]	1,2-Dibromoethane(EDB)...	9.820	107	634494	11.088	ppbv	99
105]	Tetrachloroethene(sim)	10.078	166	658809	10.152	ppbv	100
107]	Bromoform(sim)	10.833	173	740154	10.024	ppbv	99
109]	1,1,2,2-Tetrachloroeth...	11.028	83	1022671	9.592	ppbv	100
113]	1,3-Dichlorobenzene(sim)	12.135	146	1002040	12.572	ppbv	99
114]	1,4-Dichlorobenzene(sim)	12.181	146	725414	12.759	ppbv	96
117]	1,2-Dichlorobenzene(sim)	12.392	146	966778	12.140	ppbv	100

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\08A\
 Data File : 0308_16.D
 Acq On : 9 Mar 2021 12:58 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10ppb cc
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 09 12:15:51 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 11:15:39 2021
 Response via : Initial Calibration



6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM24
Heated Purge (Y/N): Y
GC Column: _____

Client: ECMS
SDG No.: GCH77085
Calibration Date From: 03/10/21 13:16
Calibration Date Thru: 03/10/21 17:26
Method File: 24AIR_0310.M

Laboratory File Ids

RRF1	0310 03.D	RRF2	0310 04.D	RRF3	0310 05.D	RRF4	0310 06.D	RRF5	0310 07.D	RRF6	0310 08.D	RRF7	0310 14.D	RRF8	0310 09.D	RRF9	0310 10.D	RRF10	0310 15.D	RRF11	0310 11.D	RRF12	0310 12.D		
COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	— RRF	% RSD											
Dichlorodifluoromethane				2.102	2.002	1.826	1.961	1.656	2.342	1.782	1.512	1.252	1.826	17.85											
Chloromethane				1.400	1.242	1.239	1.143	1.454	1.652	1.497	1.465	1.337	1.381	11.39											
Vinyl Chloride				0.889	0.744	0.819	0.875	0.798	0.912	0.872	0.840	0.813	0.840	6.24											
Bromomethane					0.871	0.824	0.817	0.774	0.861	0.811	0.797	0.775	0.816	4.36											
Chloroethane				0.365	0.325	0.346	0.328	0.307	0.353	0.328	0.319	0.311	0.331	5.89											
Trichlorofluoromethane				2.691	2.633	2.656	2.439	2.535	2.795	2.509	2.495	2.322	2.564	5.61											
1,1-Dichloroethene				1.654	1.626	1.508	1.479	1.484	1.672	1.515	1.480	1.445	1.540	5.58											
Methylene Chloride					1.712	1.501	1.613	1.607	1.780	1.622	1.572	1.314	1.590	8.80											
Trichlorotrifluoroethane				1.920	1.907	1.837	1.790	1.712	1.949	1.754	1.725	1.684	1.809	5.45											
Trans-1,2-Dichloroethene				1.315	1.294	1.281	1.323	1.293	1.485	1.397	1.361	1.347	1.344	4.78											
1,1-Dichloroethane				1.705	1.608	1.599	1.568	1.521	1.712	1.603	1.525	1.495	1.593	4.81											
Cis-1,2-Dichloroethene				1.444	1.352	1.358	1.412	1.355	1.599	1.535	1.473	1.437	1.441	5.91											
Chloroform				1.887	1.894	1.915	1.912	1.836	2.103	1.916	1.860	1.789	1.901	4.56											
1,2-Dichloroethane				1.525	1.441	1.541	1.447	1.469	1.662	1.493	1.511	1.434	1.503	4.73											
1,1,1-Trichloroethane				1.989	2.087	2.169	2.054	2.034	2.286	2.099	2.050	1.980	2.083	4.58											
Carbon Tetrachloride				2.622	2.379	2.341	2.272	2.279	2.596	2.383	2.359	2.258	2.388	5.60											
1,2-dichloropropane				0.320	0.308	0.306	0.311	0.290	0.345	0.321	0.320	0.322	0.316	4.69											
Bromodichloromethane				0.626	0.637	0.658	0.633	0.638	0.742	0.690	0.693	0.691	0.668	5.80											
Trichloroethene				0.403	0.375	0.391	0.390	0.369	0.438	0.417	0.414	0.420	0.402	5.59											
cis-1,3-Dichloropropene				0.374	0.389	0.387	0.390	0.391	0.457	0.449	0.453	0.457	0.416	8.69											
trans-1,3-Dichloropropene				0.363	0.354	0.364	0.393	0.412	0.482	0.454	0.459	0.471	0.417	12.18											
1,1,2-Trichloroethane				0.381	0.348	0.341	0.343	0.333	0.383	0.360	0.359	0.367	0.357	4.91											
Dibromochloromethane				0.794	0.774	0.811	0.779	0.784	0.916	0.878	0.896	0.884	0.835	6.84											
1,2-Dibromoethane(EDB)				0.579	0.551	0.594	0.590	0.602	0.696	0.663	0.668	0.675	0.624	8.23											
Tetrachloroethene				0.506	0.471	0.481	0.460	0.461	0.519	0.495	0.497	0.500	0.488	4.27											

(#) 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: CHEM24
Heated Purge (Y/N): Y
GC Column: _____

Client: ECMS
SDG No.: GCH77085
Calibration Date From: 03/10/21 13:16
Calibration Date Thru: 03/10/21 17:26
Method File: 24AIR_0310.M

Laboratory File Ids

RRF1	0310	03.D	RRF2	0310	04.D	RRF3	0310	05.D	RRF4	0310	06.D	RRF5	0310	07.D	RRF6	0310	08.D
RRF7	0310	14.D	RRF8	0310	09.D	RRF9	0310	10.D	RRF10	0310	15.D	RRF11	0310	11.D	RRF12	0310	12.D
COMPOUND			RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	— RRF	% RSD	
1,1,1,2-Tetrachloroethane						1.117	1.081	1.108	1.064	1.081	1.226	1.148	1.165	1.140	1.126	4.50	
Chlorobenzene						1.817	1.654	1.641	1.660	1.637	1.862	1.757	1.719	1.708	1.717	4.70	
Bromoform						1.579	1.431	1.513	1.265	1.330	1.685	1.628	1.680	1.668	1.531	10.27	
1,1,2,2-Tetrachloroethane						1.627	1.496	1.622	1.569	1.587	1.792	1.702	1.723	1.677	1.644	5.44	
1,3-Dichlorobenzene						1.364	1.379	1.491	1.436	1.537	1.850	1.736	1.786	1.699	1.586	11.59	
1,4-Dichlorobenzene						1.243	1.206	1.379	1.345	1.425	1.766	1.652	1.705	1.635	1.484	14.07	
1,2-Dichlorobenzene						1.114	1.044	1.211	1.102	1.250	1.472	1.391	1.450	1.358	1.266	12.59	
Vinyl Chloride(sim)				0.992	0.998	0.901	0.865	0.873	0.891	0.840	0.958				0.915	6.57	
Bromomethane(sim)			1.152	1.010	1.103	0.923	0.840	0.792	0.793	0.747	0.825				0.909	16.13	
Trichlorofluoromethane(sim)			3.599	3.072	3.016	2.718	2.688	2.635	2.500	2.550	2.816				2.844	12.06	
1,1,1-Trichloroethane(sim)			2.301	2.266	2.319	1.905	1.965	2.070	1.994	1.963	2.190				2.108	7.70	
Carbon Tetrachloride(sim)			2.708	2.879	2.414	2.458	2.293	2.249	2.204	2.200	2.486				2.432	9.62	
1,1-Dichloroethene(sim)			2.188	1.884	1.789	1.652	1.619	1.592	1.556	1.538	1.715				1.726	11.97	
Trichlorotrifluoroethane(sim)			2.284	2.218	1.845	1.839	1.776	1.765	1.734	1.652	1.864				1.886	11.52	
Trans-1,2-Dichloroethene(sim)			1.725	1.631	1.561	1.424	1.393	1.372	1.407	1.348	1.537				1.489	8.80	
1,1-Dichloroethane(sim)			2.178	2.024	1.869	1.633	1.550	1.535	1.521	1.468	1.640				1.713	14.65	
Cis-1,2-Dichloroethene(sim)			1.742	1.620	1.597	1.301	1.400	1.410	1.463	1.426	1.641				1.511	9.53	
Chloroform(sim)			2.570	2.240	1.862	1.807	1.826	1.843	1.856	1.772	2.013				1.977	13.41	
1,2-Dichloroethane(sim)			2.092	1.827	1.708	1.586	1.569	1.553	1.518	1.525	1.726				1.678	11.19	
1,2-dichloropropane(sim)			0.443	0.413	0.381	0.349	0.330	0.334	0.339	0.321	0.371				0.365	11.37	
Bromodichloromethane(sim)			0.802	0.757	0.793	0.626	0.637	0.658	0.633	0.638	0.741				0.698	10.54	
Trichloroethene(sim)			0.547	0.492	0.476	0.418	0.414	0.416	0.410	0.401	0.467				0.449	11.04	
cis-1,3-Dichloropropene(sim)			0.531	0.445	0.442	0.418	0.404	0.415	0.439	0.431					0.441	8.93	
1,1,2-Trichloroethane(sim)			0.478	0.378	0.367	0.381	0.351	0.341	0.343	0.333	0.383				0.373	11.70	
Dibromochloromethane(sim)			1.118	0.908	0.899	0.830	0.815	0.835	0.774	0.800	0.940				0.880	11.89	

(#) 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: CHEM24
 Heated Purge (Y/N): Y
 GC Column: _____

Client: ECMS
 SDG No.: GCH77085
 Calibration Date From: 03/10/21 13:16
 Calibration Date Thru: 03/10/21 17:26
 Method File: 24AIR_0310.M

Laboratory File Ids

RRF1	0310 03.D	RRF2	0310 04.D	RRF3	0310 05.D	RRF4	0310 06.D	RRF5	0310 07.D	RRF6	0310 08.D	RRF7	0310 14.D	RRF8	0310 09.D	RRF9	0310 10.D	RRF10	0310 15.D	RRF11	0310 11.D	RRF12	0310 12.D		
COMPOUND		RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	— RRF	% RSD										
1,2-Dibromoethane(EDB)(sim)		0.813	0.659	0.629	0.579	0.551	0.594	0.590	0.602	0.696				0.635	12.57										
Tetrachloroethene(sim)		0.657	0.555	0.528	0.490	0.487	0.491	0.486	0.477	0.544	0.514			0.523	10.36										
Bromoform(sim)		2.124	1.642	1.632	1.500	1.465	1.499	1.276	1.337	1.665				1.571	15.70										
1,1,1,2-Tetrachloroethane(sim)		1.432	1.263	1.146	1.135	1.081	1.102	1.061	1.081	1.226				1.170	10.23										
1,1,2,2-Tetrachloroethane(sim)		2.297	1.884	1.707	1.627	1.488	1.622	1.566	1.587	1.792				1.730	14.13										
1,3-Dichlorobenzene(sim)		2.381	1.755	1.377	1.364	1.379	1.494	1.436	1.537	1.850				1.619	20.60										
1,4-Dichlorobenzene(sim)		2.084	1.637	1.490	1.386	1.371	1.537	1.496	1.598	1.977				1.620	15.42										
1,2-Dichlorobenzene(sim)		1.875	1.187	1.022	1.114	1.037	1.211	1.102	1.250	1.472				1.252	21.56										
% Bromofluorobenzene					1.391	1.361	1.377	1.370	1.389	1.402	1.382	1.440	1.370	1.387	1.71										

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_03.D
 Acq On : 10 Mar 2021 11:22 am
 Operator : Keith
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 47 Sample Multiplier: 1

Quant Time: Mar 12 11:30:24 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:25:01 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.260	130	232017	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.213	114	722937	10.000	ng	-0.01
53) Chlorobenzene-d5	10.811	82	320823	10.000	ng	0.00
80) Bromochloromethane(sim)	5.263	130	239682	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.213	114	722937	10.000	ng	-0.01
105) Chlorobenzene-d5(sim)	10.811	82	320823	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	12.291	95	430474	9.638	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.40%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.499	85	1143	0.027	ppbv#	98
4) Chloromethane	1.636	50	958	0.030	ppbv	76
6) Vinyl Chloride	1.704	62	448	0.023	ppbv	99
8) Bromomethane	1.944	94	675	0.036	ppbv#	92
9) Chloroethane	2.054	64	297	0.039	ppbv#	66
13) Trichlorofluoromethane	2.170	101	1670	0.028	ppbv#	83
16) 1,1-Dichloroethene	2.601	61	994	0.028	ppbv#	83
17) Methylene Chloride	3.169	49	1343	0.036	ppbv	94
21) Trichlorotrifluoroethane	2.656	101	565	0.013	ppbv#	1
22) Trans-1,2-Dichloroethene	3.368	61	673	0.022	ppbv#	89
23) 1,1-Dichloroethane	4.106	63	929	0.025	ppbv#	57
26) Cis-1,2-Dichloroethene	4.947	61	664	0.020	ppbv#	83
28) Chloroform	5.469	83	1027	0.023	ppbv#	83
31) 1,2-Dichloroethane	6.555	62	887	0.025	ppbv#	86
32) 1,1,1-Trichloroethane	5.721	97	1103	0.023	ppbv	88
34) Carbon Tetrachloride	5.635	117	1404	0.025	ppbv	87
37) 1,2-dichloropropane	7.788	63	722	0.032	ppbv#	36
38) Bromodichloromethane	7.939	83	1159	0.024	ppbv	94
39) Trichloroethene	7.158	130	593	0.020	ppbv#	35
44) cis-1,3-Dichloropropene	8.731	75	724	0.024	ppbv	75
46) trans-1,3-Dichloropropene	9.561	75	794	0.026	ppbv#	78
47) 1,1,2-Trichloroethane	9.727	97	646	0.025	ppbv	97
49) Dibromochloromethane	9.936	129	1678	0.028	ppbv#	96
51) 1,2-Dibromoethane(EDB)	10.160	107	1090	0.024	ppbv	86
52) Tetrachloroethene	9.503	166	634	0.018	ppbv#	58
54) 1,1,1,2-Tetrachloroethane	10.941	131	919	0.025	ppbv#	76
55) Chlorobenzene	10.831	112	1620	0.029	ppbv#	1
58) Bromoform	11.648	173	1139	0.023	ppbv#	84
60) 1,1,2,2-Tetrachloroethane	12.577	83	1474	0.028	ppbv	95
71) 1,3-Dichlorobenzene	13.531	146	1528	0.030	ppbv	87
72) 1,4-Dichlorobenzene	13.635	146	1101	0.023	ppbv	95
75) 1,2-Dichlorobenzene	14.024	146	1203	0.030	ppbv	86
82) Vinyl Chloride(sim)	1.707	62	580	0.026	ppbv	98
83) Bromomethane(sim)	1.947	94	552m	0.025	ppbv	74
84) Trichlorofluoromethane...	2.173	101	1725	0.025	ppbv	99
85) 1,1,1-Trichloroethane(...)	5.721	97	1103	0.022	ppbv#	83
87) Carbon Tetrachloride(sim)	5.637	117	1298m	0.022	ppbv	54
88) 1,1-Dichloroethene(sim)	2.604	61	1049	0.025	ppbv	98
89) Trichlorotrifluoroetha...	2.673	101	1095m	0.024	ppbv	1
90) Trans-1,2-Dichloroethe...	3.364	61	827	0.023	ppbv	90
91) 1,1-Dichloroethane(sim)	4.114	63	1044m	0.025	ppbv	57
92) Cis-1,2-Dichloroethene...	4.950	61	835	0.023	ppbv	95
93) Chloroform(sim)	5.464	83	1232m	0.026	ppbv	81
94) 1,2-Dichloroethane(sim)	6.558	62	1003	0.025	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_03.D
 Acq On : 10 Mar 2021 11:22 am
 Operator : Keith
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 47 Sample Multiplier: 1

Quant Time: Mar 12 11:30:24 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:25:01 2021
 Response via : Initial Calibration

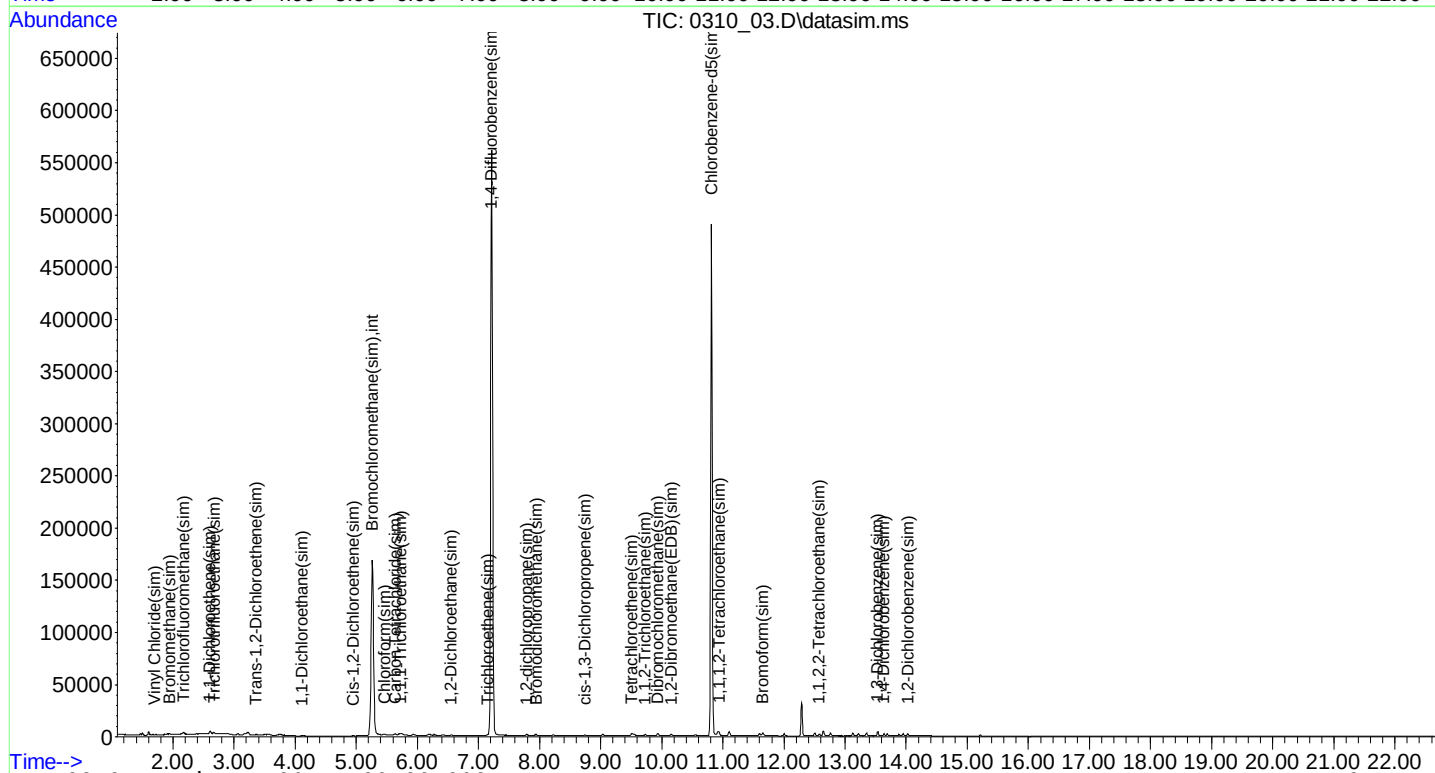
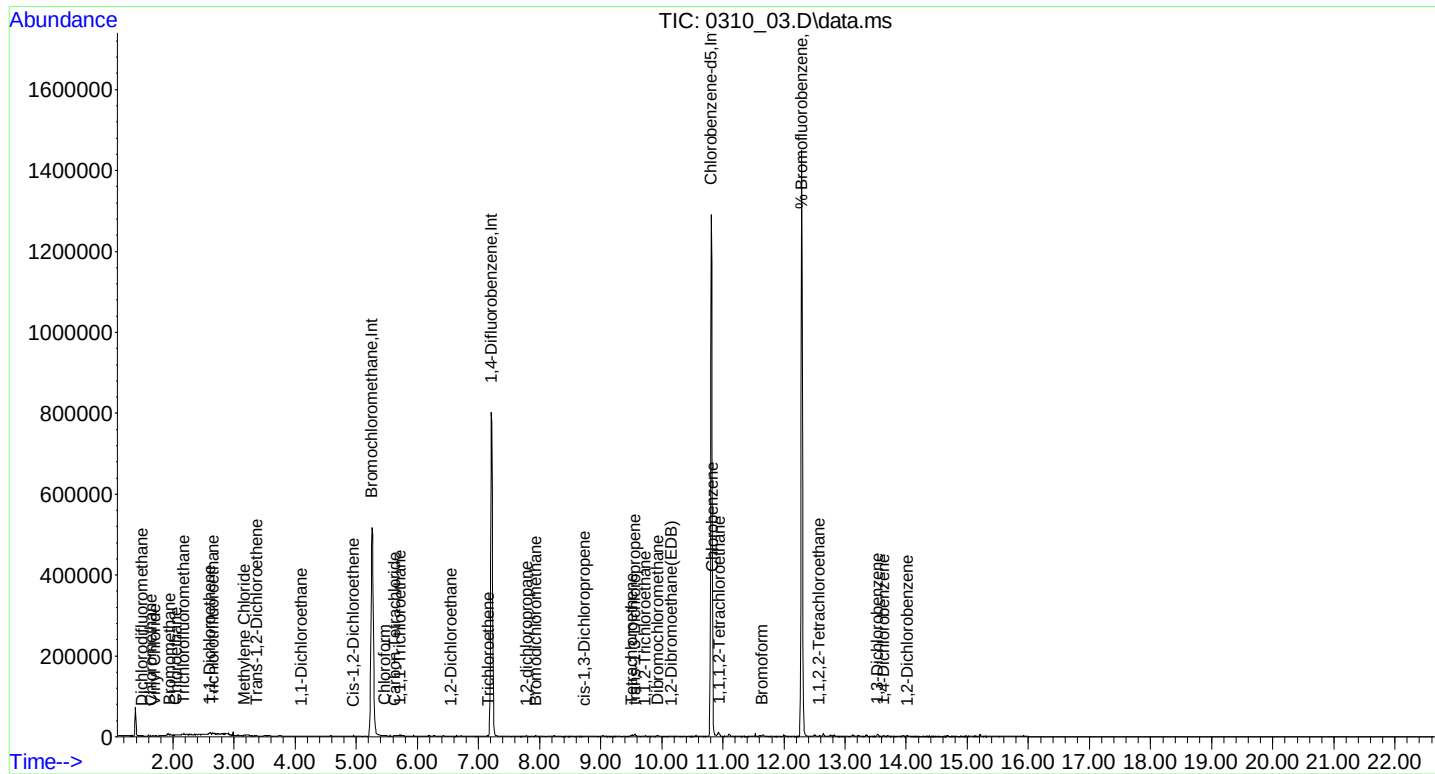
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.791	63	641	0.024	ppbv#	75
97]	Bromodichloromethane(sim)	7.939	83	1159	0.023	ppbv	94
98]	Trichloroethene(sim)	7.154	130	791	0.024	ppbv	99
100]	cis-1,3-Dichloropropen...	8.741	75	768	0.024	ppbv#	89
101]	1,1,2-Trichloroethane(...	9.730	97	691m	0.026	ppbv	97
102]	Dibromochloromethane(sim)	9.939	129	1616	0.025	ppbv	99
103]	1,2-Dibromoethane(EDB)...	10.156	107	1175m	0.026	ppbv	98
104]	Tetrachloroethene(sim)	9.506	166	950	0.025	ppbv	98
106]	Bromoform(sim)	11.651	173	1363	0.040	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.941	131	919	0.024	ppbv	91
111]	1,1,2,2-Tetrachloroeth...	12.577	83	1474	0.027	ppbv#	93
115]	1,3-Dichlorobenzene(sim)	13.531	146	1528	0.029	ppbv	87
116]	1,4-Dichlorobenzene(sim)	13.638	146	1337	0.026	ppbv	99
119]	1,2-Dichlorobenzene(sim)	14.024	146	1203	0.030	ppbv	86

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
Data File : 0310_03.D
Acq On : 10 Mar 2021 11:22 am
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Mar 12 11:30:24 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 12 10:25:01 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_04.D
 Acq On : 10 Mar 2021 11:50 am
 Operator : Keith
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 12 11:30:58 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.260	130	233303	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.220	114	720639	10.000	ng	0.00
53) Chlorobenzene-d5	10.811	82	325341	10.000	ng	0.00
80) Bromochloromethane(sim)	5.263	130	241554	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.220	114	720639	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.811	82	325341	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	12.291	95	433362	9.568	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.70%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.499	85	1730	0.041	ppbv#	95
4) Chloromethane	1.636	50	1647	0.051	ppbv	98
6) Vinyl Chloride	1.704	62	803	0.041	ppbv	81
8) Bromomethane	1.944	94	965	0.051	ppbv	92
9) Chloroethane	2.061	64	368	0.048	ppbv#	76
13) Trichlorofluoromethane	2.170	101	2521	0.042	ppbv	97
16) 1,1-Dichloroethene	2.602	61	1632	0.045	ppbv	98
17) Methylene Chloride	3.162	49	2023	0.055	ppbv	98
21) Trichlorotrifluoroethane	2.670	101	1791	0.042	ppbv	94
22) Trans-1,2-Dichloroethene	3.368	61	1228	0.039	ppbv#	94
23) 1,1-Dichloroethane	4.111	63	1394	0.038	ppbv	90
26) Cis-1,2-Dichloroethene	4.952	61	1201	0.036	ppbv#	82
28) Chloroform	5.462	83	1908	0.043	ppbv#	73
31) 1,2-Dichloroethane	6.555	62	1543	0.044	ppbv#	74
32) 1,1,1-Trichloroethane	5.721	97	1965	0.040	ppbv	98
34) Carbon Tetrachloride	5.642	117	2148	0.039	ppbv	95
37) 1,2-dichloropropane	7.795	63	922	0.041	ppbv#	71
38) Bromodichloromethane	7.939	83	1910	0.040	ppbv	96
39) Trichloroethene	7.158	130	1089	0.038	ppbv	97
44) cis-1,3-Dichloropropene	8.738	75	1022	0.034	ppbv	87
46) trans-1,3-Dichloropropene	9.554	75	971	0.032	ppbv#	90
47) 1,1,2-Trichloroethane	9.727	97	953	0.037	ppbv	92
49) Dibromochloromethane	9.936	129	2079	0.035	ppbv	90
51) 1,2-Dibromoethane(EDB)	10.153	107	1662	0.037	ppbv	92
52) Tetrachloroethene	9.510	166	1289	0.037	ppbv	97
54) 1,1,1,2-Tetrachloroethane	10.934	131	1438	0.039	ppbv#	94
55) Chlorobenzene	10.824	112	2527	0.045	ppbv#	1
58) Bromoform	11.648	173	1880	0.038	ppbv	96
60) 1,1,2,2-Tetrachloroethane	12.577	83	2145	0.040	ppbv	87
71) 1,3-Dichlorobenzene	13.537	146	1998	0.039	ppbv	99
72) 1,4-Dichlorobenzene	13.635	146	1786	0.037	ppbv	99
75) 1,2-Dichlorobenzene	14.024	146	1427	0.035	ppbv	92
82) Vinyl Chloride(sim)	1.707	62	839	0.038	ppbv	95
83) Bromomethane(sim)	1.947	94	854m	0.039	ppbv	87
84) Trichlorofluoromethane...	2.173	101	2597	0.038	ppbv	98
85) 1,1,1-Trichloroethane(...)	5.721	97	1916	0.038	ppbv#	97
87) Carbon Tetrachloride(sim)	5.637	117	2434m	0.041	ppbv	63
88) 1,1-Dichloroethene(sim)	2.604	61	1593	0.038	ppbv	97
89) Trichlorotrifluoroetha...	2.666	101	1875m	0.041	ppbv	86
90) Trans-1,2-Dichloroethe...	3.364	61	1379	0.038	ppbv	99
91) 1,1-Dichloroethane(sim)	4.114	63	1711m	0.041	ppbv	90
92) Cis-1,2-Dichloroethene...	4.955	61	1370	0.038	ppbv	96
93) Chloroform(sim)	5.464	83	1894m	0.040	ppbv	79
94) 1,2-Dichloroethane(sim)	6.558	62	1545	0.038	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_04.D
 Acq On : 10 Mar 2021 11:50 am
 Operator : Keith
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 12 11:30:58 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration

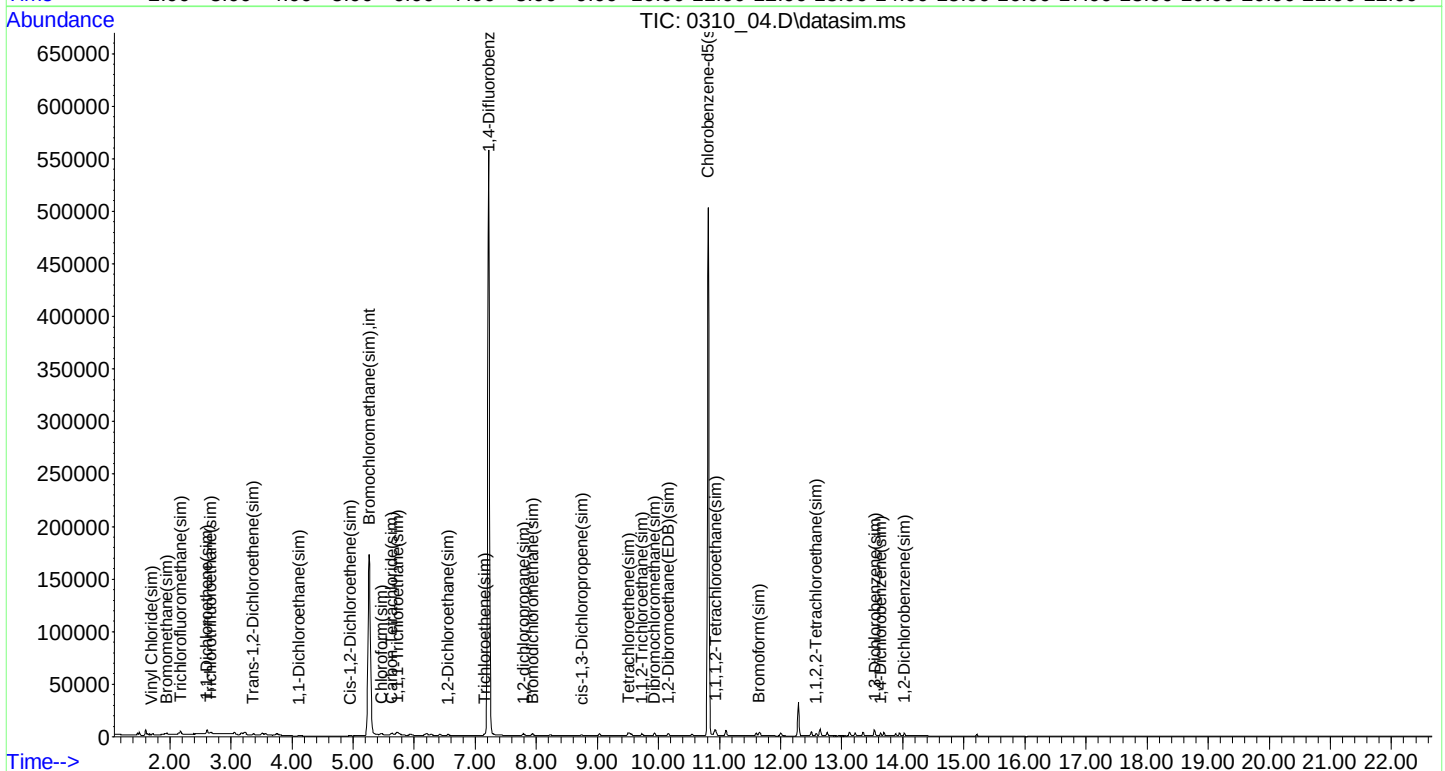
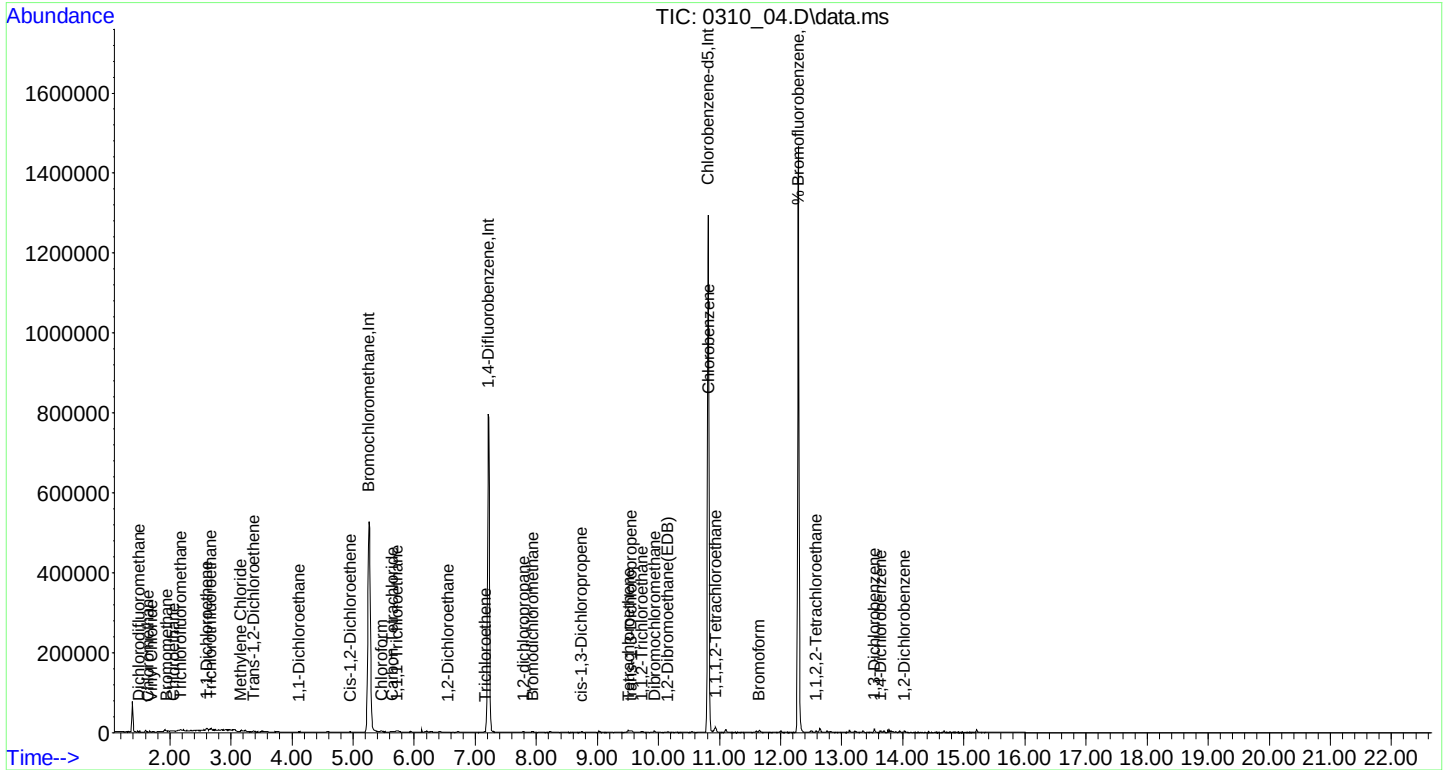
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.791	63	1041	0.040	ppbv	93
97]	Bromodichloromethane(sim)	7.939	83	1910	0.038	ppbv	96
98]	Trichloroethene(sim)	7.154	130	1241	0.038	ppbv	96
100]	cis-1,3-Dichloropropen...	8.741	75	1122	0.035	ppbv	95
101]	1,1,2-Trichloroethane(...	9.727	97	953	0.035	ppbv	92
102]	Dibromochloromethane(sim)	9.932	129	2289	0.036	ppbv	98
103]	1,2-Dibromoethane(EDB)...	10.153	107	1662	0.036	ppbv	91
104]	Tetrachloroethene(sim)	9.506	166	1400	0.037	ppbv	99
106]	Bromoform(sim)	11.644	173	1870	0.054	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.934	131	1438	0.038	ppbv	93
111]	1,1,2,2-Tetrachloroeth...	12.577	83	2145	0.038	ppbv	82
115]	1,3-Dichlorobenzene(sim)	13.537	146	1998	0.038	ppbv	93
116]	1,4-Dichlorobenzene(sim)	13.638	146	1864	0.035	ppbv	99
119]	1,2-Dichlorobenzene(sim)	14.024	146	1352	0.033	ppbv	87

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_04.D
 Acq On : 10 Mar 2021 11:50 am
 Operator : Keith
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 48 Sample Multiplier: 1

Quant Time: Mar 12 11:30:58 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_05.D
 Acq On : 10 Mar 2021 12:18 pm
 Operator : Keith
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 11:31:22 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.260	130	230265	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.213	114	722772	10.000	ng	-0.01
53) Chlorobenzene-d5	10.811	82	323127	10.000	ng	0.00
80) Bromochloromethane(sim)	5.263	130	241998	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.213	114	722772	10.000	ng	-0.01
105) Chlorobenzene-d5(sim)	10.811	82	323127	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	12.291	95	429615	9.550	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.50%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.499	85	2893	0.069	ppbv	96
4) Chloromethane	1.629	50	1816	0.057	ppbv	82
6) Vinyl Chloride	1.704	62	973	0.050	ppbv	96
8) Bromomethane	1.944	94	1368	0.073	ppbv#	86
9) Chloroethane	2.047	64	392	0.051	ppbv#	75
13) Trichlorofluoromethane	2.170	101	3506	0.059	ppbv#	88
16) 1,1-Dichloroethene	2.608	61	2075	0.059	ppbv#	81
17) Methylene Chloride	3.162	49	2581	0.070	ppbv	95
21) Trichlorotrifluoroethane	2.663	101	2291	0.055	ppbv	93
22) Trans-1,2-Dichloroethene	3.368	61	1798	0.058	ppbv	97
23) 1,1-Dichloroethane	4.121	63	2261	0.062	ppbv	88
26) Cis-1,2-Dichloroethene	4.952	61	1748	0.053	ppbv#	86
28) Chloroform	5.476	83	2382	0.054	ppbv#	83
31) 1,2-Dichloroethane	6.555	62	1946	0.056	ppbv	93
32) 1,1,1-Trichloroethane	5.728	97	2806	0.058	ppbv	97
34) Carbon Tetrachloride	5.642	117	3017	0.055	ppbv	95
37) 1,2-dichloropropane	7.781	63	1226	0.054	ppbv#	60
38) Bromodichloromethane	7.932	83	2864	0.059	ppbv	98
39) Trichloroethene	7.151	130	1642	0.057	ppbv	92
44) cis-1,3-Dichloropropene	8.738	75	1538	0.051	ppbv	91
46) trans-1,3-Dichloropropene	9.554	75	1323	0.044	ppbv	95
47) 1,1,2-Trichloroethane	9.734	97	1327	0.051	ppbv	87
49) Dibromochloromethane	9.936	129	3016	0.050	ppbv	89
51) 1,2-Dibromoethane(EDB)	10.153	107	2317	0.051	ppbv	94
52) Tetrachloroethene	9.510	166	1845	0.052	ppbv	98
54) 1,1,1,2-Tetrachloroethane	10.934	131	1915	0.053	ppbv	93
55) Chlorobenzene	10.831	112	2980	0.054	ppbv#	1
58) Bromoform	11.655	173	2698	0.055	ppbv	97
60) 1,1,2,2-Tetrachloroethane	12.577	83	2758	0.052	ppbv	99
71) 1,3-Dichlorobenzene	13.537	146	2225	0.043	ppbv	96
72) 1,4-Dichlorobenzene	13.635	146	2235	0.047	ppbv	97
75) 1,2-Dichlorobenzene	14.024	146	1691	0.041	ppbv	94
82) Vinyl Chloride(sim)	1.707	62	1207	0.055	ppbv	95
83) Bromomethane(sim)	1.947	94	1335m	0.061	ppbv	88
84) Trichlorofluoromethane...	2.173	101	3649	0.053	ppbv	100
85) 1,1,1-Trichloroethane(...)	5.728	97	2806	0.055	ppbv#	97
87) Carbon Tetrachloride(sim)	5.642	117	2921	0.050	ppbv	96
88) 1,1-Dichloroethene(sim)	2.604	61	2165	0.052	ppbv	99
89) Trichlorotrifluoroetha...	2.663	101	2232	0.049	ppbv	92
90) Trans-1,2-Dichloroethe...	3.364	61	1889	0.052	ppbv	98
91) 1,1-Dichloroethane(sim)	4.121	63	2261	0.055	ppbv#	88
92) Cis-1,2-Dichloroethene...	4.955	61	1932	0.053	ppbv	98
93) Chloroform(sim)	5.476	83	2253	0.047	ppbv#	82
94) 1,2-Dichloroethane(sim)	6.558	62	2067	0.051	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_05.D
 Acq On : 10 Mar 2021 12:18 pm
 Operator : Keith
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 11:31:22 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration

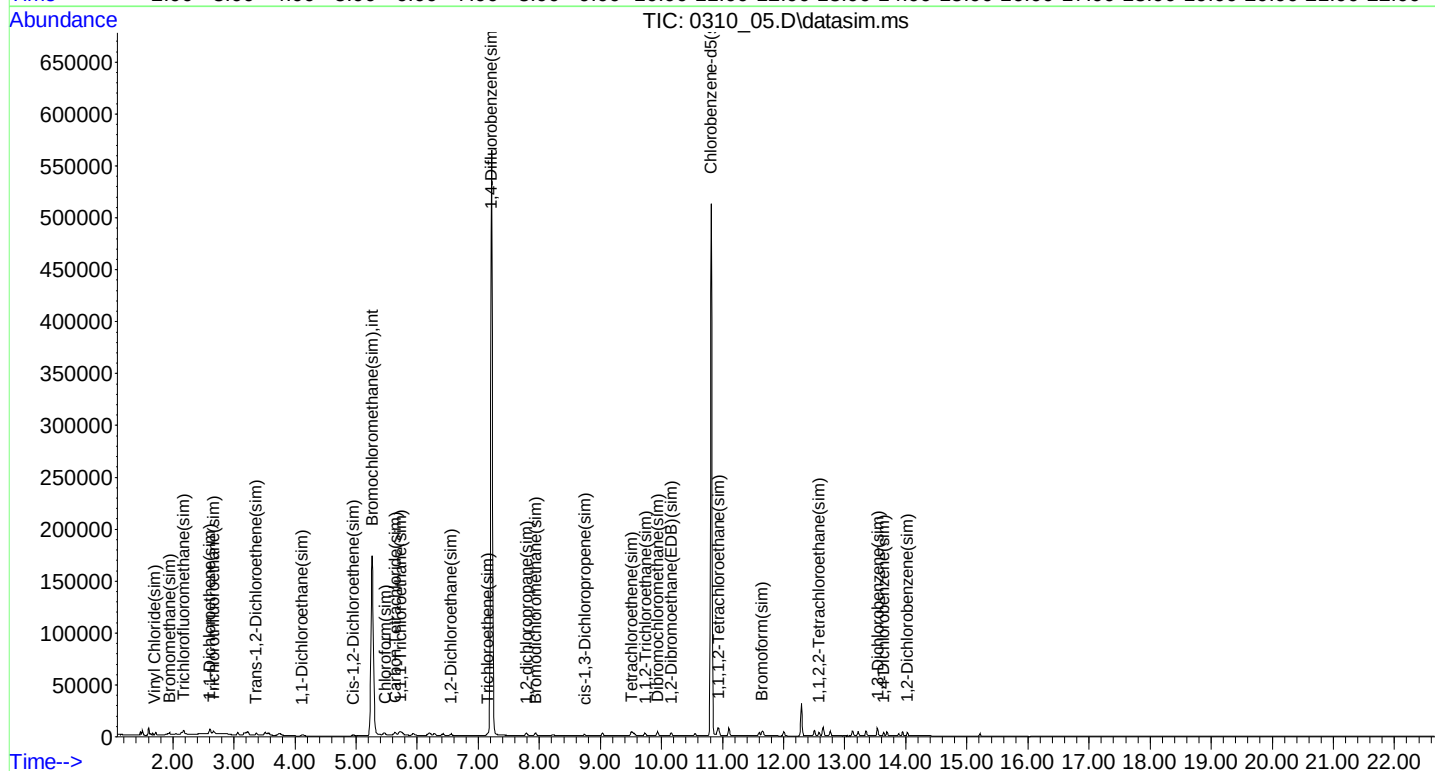
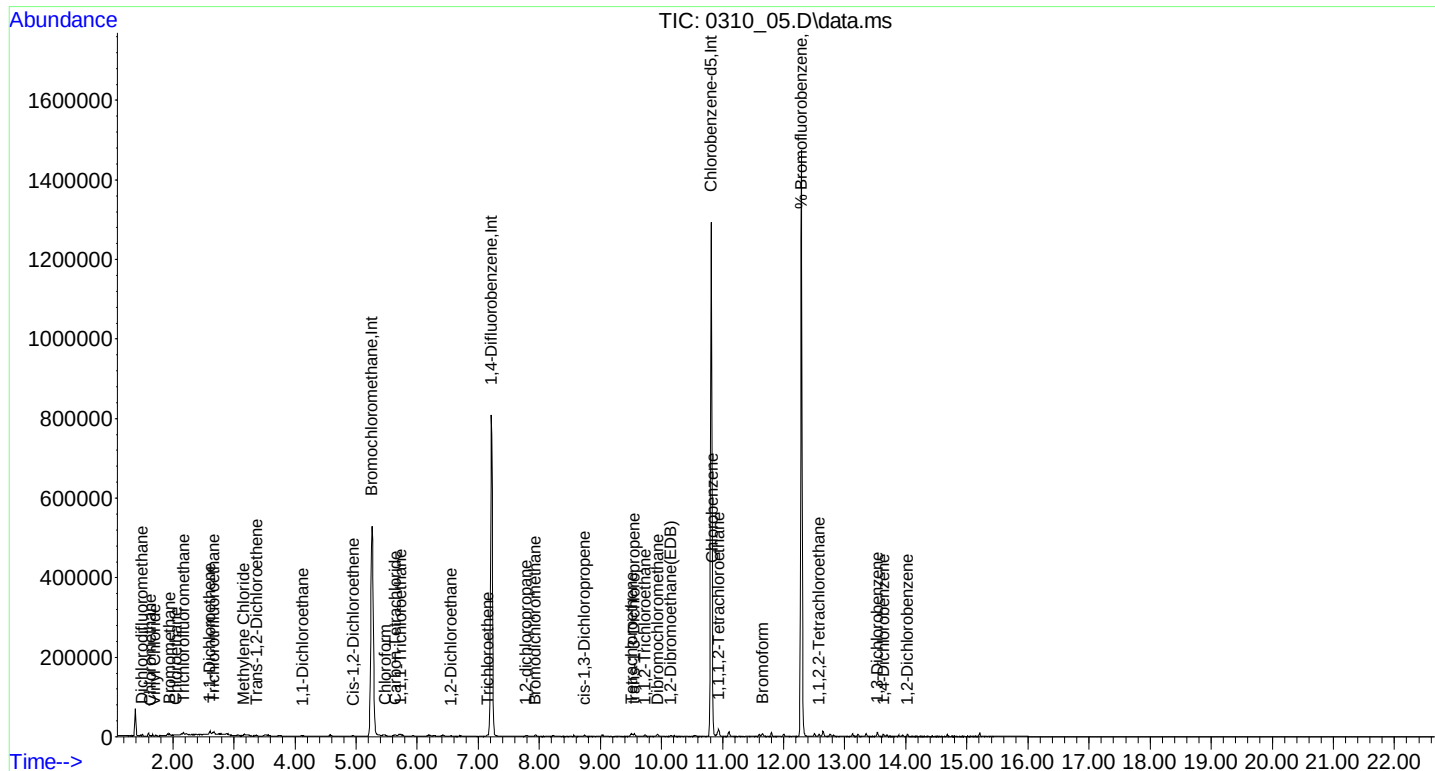
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.791	63	1376	0.052	ppbv	88
97]	Bromodichloromethane(sim)	7.932	83	2864	0.057	ppbv	96
98]	Trichloroethene(sim)	7.154	130	1722	0.053	ppbv	99
100]	cis-1,3-Dichloropropen...	8.741	75	1597	0.050	ppbv	96
101]	1,1,2-Trichloroethane(...	9.734	97	1327	0.049	ppbv	90
102]	Dibromochloromethane(sim)	9.939	129	3249	0.051	ppbv	99
103]	1,2-Dibromoethane(EDB)...	10.153	107	2272	0.050	ppbv	96
104]	Tetrachloroethene(sim)	9.506	166	1907	0.050	ppbv	97
106]	Bromoform(sim)	11.651	173	2637	0.076	ppbv	99
107]	1,1,1,2-Tetrachloroeth...	10.934	131	1852	0.049	ppbv	97
111]	1,1,2,2-Tetrachloroeth...	12.577	83	2758	0.049	ppbv#	98
115]	1,3-Dichlorobenzene(sim)	13.537	146	2225	0.043	ppbv	96
116]	1,4-Dichlorobenzene(sim)	13.638	146	2408	0.046	ppbv	99
119]	1,2-Dichlorobenzene(sim)	14.024	146	1651	0.041	ppbv	91

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_05.D
 Acq On : 10 Mar 2021 12:18 pm
 Operator : Keith
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 49 Sample Multiplier: 1

Quant Time: Mar 12 11:31:22 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_06.D
 Acq On : 10 Mar 2021 12:46 pm
 Operator : Keith
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 50 Sample Multiplier: 1

Quant Time: Mar 12 11:31:50 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.260	130	234816	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.220	114	729909	10.000	ng	0.00
53) Chlorobenzene-d5	10.811	82	323360	10.000	ng	0.00
80) Bromochloromethane(sim)	5.263	130	245111	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.220	114	729909	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.811	82	323360	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	12.291	95	449907	9.994	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.90%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.499	85	4936	0.115	ppbv	95
4) Chloromethane	1.636	50	3287	0.101	ppbv	94
6) Vinyl Chloride	1.704	62	2088	0.106	ppbv	98
8) Bromomethane	1.944	94	2159	0.113	ppbv#	93
9) Chloroethane	2.047	64	856	0.110	ppbv	90
13) Trichlorofluoromethane	2.177	101	6319	0.105	ppbv#	97
16) 1,1-Dichloroethene	2.602	61	3885	0.107	ppbv	96
17) Methylene Chloride	3.176	49	4274	0.114	ppbv	93
21) Trichlorotrifluoroethane	2.663	101	4508	0.106	ppbv	98
22) Trans-1,2-Dichloroethene	3.361	61	3088	0.098	ppbv	93
23) 1,1-Dichloroethane	4.116	63	4003	0.107	ppbv	91
26) Cis-1,2-Dichloroethene	4.957	61	3391	0.100	ppbv#	89
28) Chloroform	5.462	83	4430	0.099	ppbv	85
31) 1,2-Dichloroethane	6.562	62	3582	0.102	ppbv	93
32) 1,1,1-Trichloroethane	5.721	97	4670	0.095	ppbv	90
34) Carbon Tetrachloride	5.635	117	6157	0.110	ppbv	92
37) 1,2-dichloropropane	7.788	63	2333	0.101	ppbv	88
38) Bromodichloromethane	7.939	83	4572	0.094	ppbv	99
39) Trichloroethene	7.144	130	2943	0.100	ppbv	94
44) cis-1,3-Dichloropropene	8.745	75	2733	0.090	ppbv	89
46) trans-1,3-Dichloropropene	9.554	75	2647	0.087	ppbv#	93
47) 1,1,2-Trichloroethane	9.727	97	2779	0.107	ppbv	92
49) Dibromochloromethane	9.936	129	5796	0.095	ppbv	98
51) 1,2-Dibromoethane(EDB)	10.160	107	4227	0.093	ppbv	100
52) Tetrachloroethene	9.510	166	3695	0.104	ppbv	90
54) 1,1,1,2-Tetrachloroethane	10.934	131	3612	0.099	ppbv	96
55) Chlorobenzene	10.831	112	5875	0.106	ppbv#	1
58) Bromoform	11.648	173	5105	0.103	ppbv	94
60) 1,1,2,2-Tetrachloroethane	12.583	83	5261	0.099	ppbv	98
71) 1,3-Dichlorobenzene	13.537	146	4410	0.086	ppbv#	92
72) 1,4-Dichlorobenzene	13.635	146	4018	0.084	ppbv	94
75) 1,2-Dichlorobenzene	14.024	146	3603	0.088	ppbv	96
82) Vinyl Chloride(sim)	1.707	62	2209	0.099	ppbv	99
83) Bromomethane(sim)	1.947	94	2262m	0.101	ppbv	93
84) Trichlorofluoromethane...	2.173	101	6661	0.096	ppbv	100
85) 1,1,1-Trichloroethane(...)	5.721	97	4670	0.090	ppbv#	90
87) Carbon Tetrachloride(sim)	5.635	117	6026	0.101	ppbv	94
88) 1,1-Dichloroethene(sim)	2.604	61	4049	0.096	ppbv	98
89) Trichlorotrifluoroetha...	2.663	101	4508	0.097	ppbv	98
90) Trans-1,2-Dichloroethe...	3.364	61	3490	0.096	ppbv	100
91) 1,1-Dichloroethane(sim)	4.116	63	4003	0.095	ppbv#	91
92) Cis-1,2-Dichloroethene...	4.955	61	3188	0.086	ppbv	97
93) Chloroform(sim)	5.462	83	4430	0.091	ppbv#	86
94) 1,2-Dichloroethane(sim)	6.558	62	3888	0.095	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_06.D
 Acq On : 10 Mar 2021 12:46 pm
 Operator : Keith
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 50 Sample Multiplier: 1

Quant Time: Mar 12 11:31:50 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration

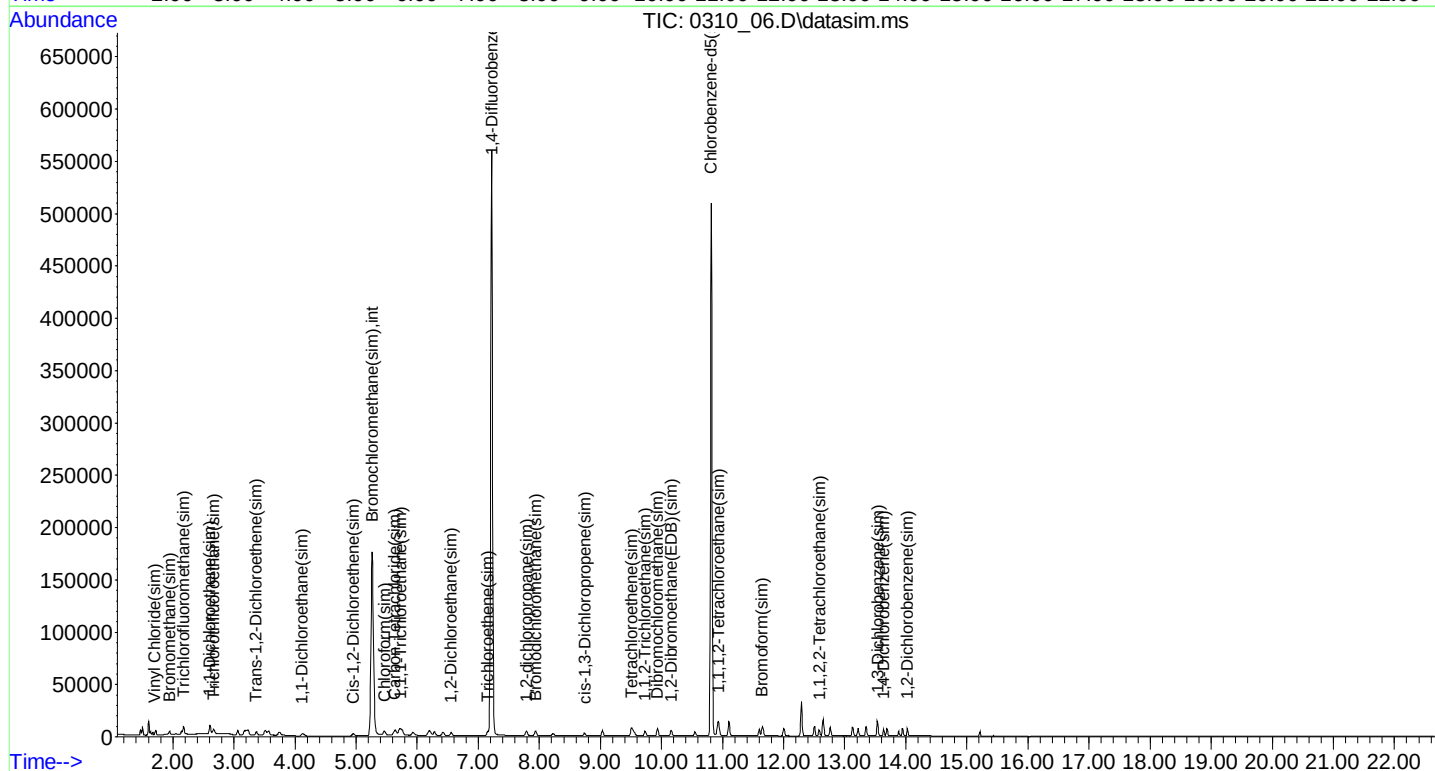
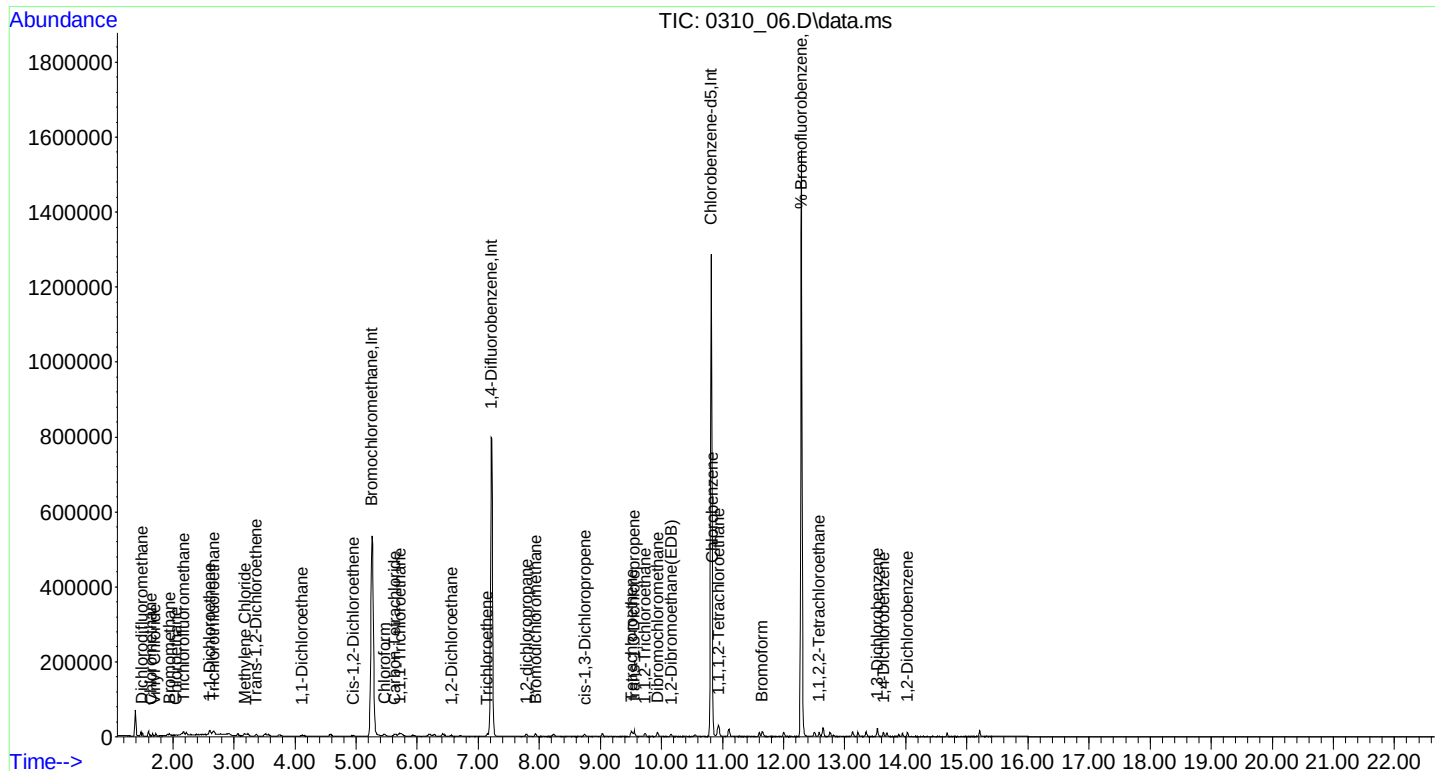
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.791	63	2548	0.096	ppbv	91
97]	Bromodichloromethane(sim)	7.939	83	4572	0.090	ppbv	98
98]	Trichloroethene(sim)	7.154	130	3049	0.093	ppbv	99
100]	cis-1,3-Dichloropropen...	8.741	75	3050	0.095	ppbv	99
101]	1,1,2-Trichloroethane(...	9.727	97	2779	0.102	ppbv	92
102]	Dibromochloromethane(sim)	9.932	129	6056	0.094	ppbv	99
103]	1,2-Dibromoethane(EDB)...	10.160	107	4227	0.091	ppbv	100
104]	Tetrachloroethene(sim)	9.506	166	3575	0.094	ppbv	98
106]	Bromoform(sim)	11.651	173	4851	0.139	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.934	131	3670	0.097	ppbv	97
111]	1,1,2,2-Tetrachloroeth...	12.583	83	5261	0.094	ppbv	98
115]	1,3-Dichlorobenzene(sim)	13.537	146	4410	0.084	ppbv#	92
116]	1,4-Dichlorobenzene(sim)	13.638	146	4482	0.086	ppbv	99
119]	1,2-Dichlorobenzene(sim)	14.024	146	3603	0.089	ppbv	96

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_06.D
 Acq On : 10 Mar 2021 12:46 pm
 Operator : Keith
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 50 Sample Multiplier: 1

Quant Time: Mar 12 11:31:50 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_07.D
 Acq On : 10 Mar 2021 1:16 pm
 Operator : Keith
 Client ID : ICAL 0.25
 Lab ID : 0.20
 ALS Vial : 51 Sample Multiplier: 1

Quant Time: Mar 12 11:29:00 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.267	130	231674	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.220	114	725271	10.000	ng	0.00
53) Chlorobenzene-d5	10.818	82	328052	10.000	ng	0.00
80) Bromochloromethane(sim)	5.263	130	240292	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.220	114	725271	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.818	82	328052	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	12.291	95	446393	9.774	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.70%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.499	85	9277	0.219	ppbv	99
4) Chloromethane	1.636	50	5753	0.180	ppbv	77
6) Vinyl Chloride	1.704	62	3447	0.177	ppbv	79
8) Bromomethane	1.944	94	4035	0.213	ppbv	99
9) Chloroethane	2.054	64	1507	0.196	ppbv	81
13) Trichlorofluoromethane	2.170	101	12202	0.205	ppbv#	97
16) 1,1-Dichloroethene	2.601	61	7533	0.211	ppbv	96
17) Methylene Chloride	3.169	49	7931	0.215	ppbv	97
21) Trichlorotrifluoroethane	2.670	101	8838	0.211	ppbv	96
22) Trans-1,2-Dichloroethene	3.361	61	5998	0.193	ppbv	97
23) 1,1-Dichloroethane	4.116	63	7449	0.202	ppbv	98
26) Cis-1,2-Dichloroethene	4.957	61	6266	0.188	ppbv	96
28) Chloroform	5.461	83	8775	0.199	ppbv	92
31) 1,2-Dichloroethane	6.562	62	6677	0.192	ppbv	96
32) 1,1,1-Trichloroethane	5.721	97	9672	0.200	ppbv	100
34) Carbon Tetrachloride	5.634	117	11021	0.199	ppbv	98
37) 1,2-dichloropropane	7.795	63	4468	0.195	ppbv#	84
38) Bromodichloromethane	7.939	83	9236	0.191	ppbv	99
39) Trichloroethene	7.151	130	5445	0.187	ppbv	98
44) cis-1,3-Dichloropropene	8.745	75	5640	0.187	ppbv	96
46) trans-1,3-Dichloropropene	9.554	75	5131	0.170	ppbv	99
47) 1,1,2-Trichloroethane	9.727	97	5047	0.195	ppbv	97
49) Dibromochloromethane	9.936	129	11227	0.185	ppbv	94
51) 1,2-Dibromoethane(EDB)	10.160	107	7992	0.177	ppbv	95
52) Tetrachloroethene	9.503	166	6827	0.193	ppbv	98
54) 1,1,1,2-Tetrachloroethane	10.934	131	7095	0.192	ppbv	100
55) Chlorobenzene	10.831	112	10850	0.193	ppbv#	45
58) Bromoform	11.648	173	9386	0.187	ppbv	97
60) 1,1,2,2-Tetrachloroethane	12.583	83	9818	0.182	ppbv	99
71) 1,3-Dichlorobenzene	13.537	146	9049	0.174	ppbv	97
72) 1,4-Dichlorobenzene	13.635	146	7914	0.163	ppbv	99
75) 1,2-Dichlorobenzene	14.024	146	6847	0.165	ppbv	98
82) Vinyl Chloride(sim)	1.707	62	4158	0.189	ppbv	100
83) Bromomethane(sim)	1.944	94	4035	0.185	ppbv	99
84) Trichlorofluoromethane...	2.173	101	12918	0.189	ppbv	100
85) 1,1,1-Trichloroethane(...)	5.721	97	9445	0.186	ppbv#	98
87) Carbon Tetrachloride(sim)	5.634	117	11021	0.189	ppbv	96
88) 1,1-Dichloroethene(sim)	2.604	61	7782	0.188	ppbv	99
89) Trichlorotrifluoroetha...	2.670	101	8536	0.188	ppbv	96
90) Trans-1,2-Dichloroethe...	3.364	61	6693	0.187	ppbv	99
91) 1,1-Dichloroethane(sim)	4.116	63	7449	0.181	ppbv	98
92) Cis-1,2-Dichloroethene...	4.955	61	6728	0.185	ppbv	98
93) Chloroform(sim)	5.461	83	8775	0.185	ppbv#	92
94) 1,2-Dichloroethane(sim)	6.558	62	7541	0.187	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_07.D
 Acq On : 10 Mar 2021 1:16 pm
 Operator : Keith
 Client ID : ICAL 0.25
 Lab ID : 0.20
 ALS Vial : 51 Sample Multiplier: 1

Quant Time: Mar 12 11:29:00 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration

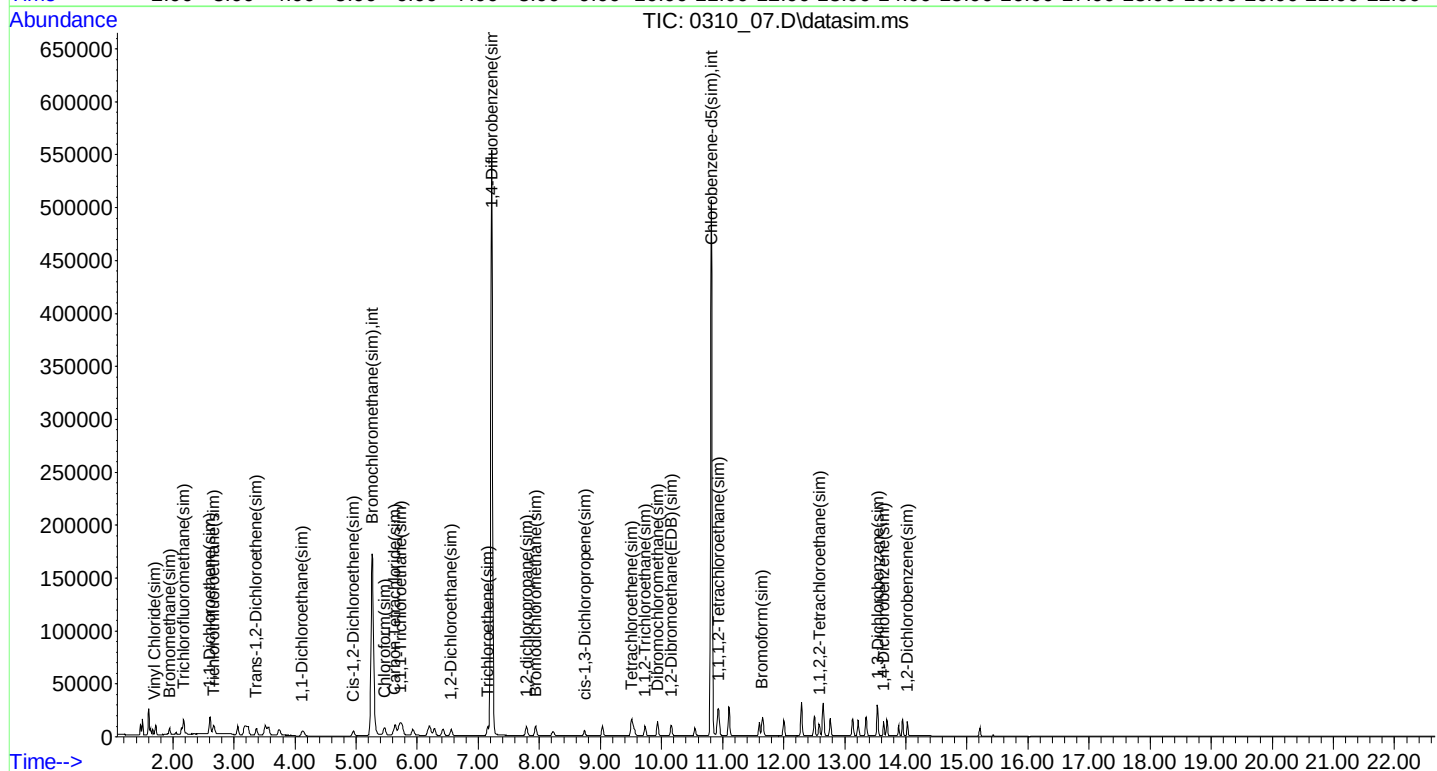
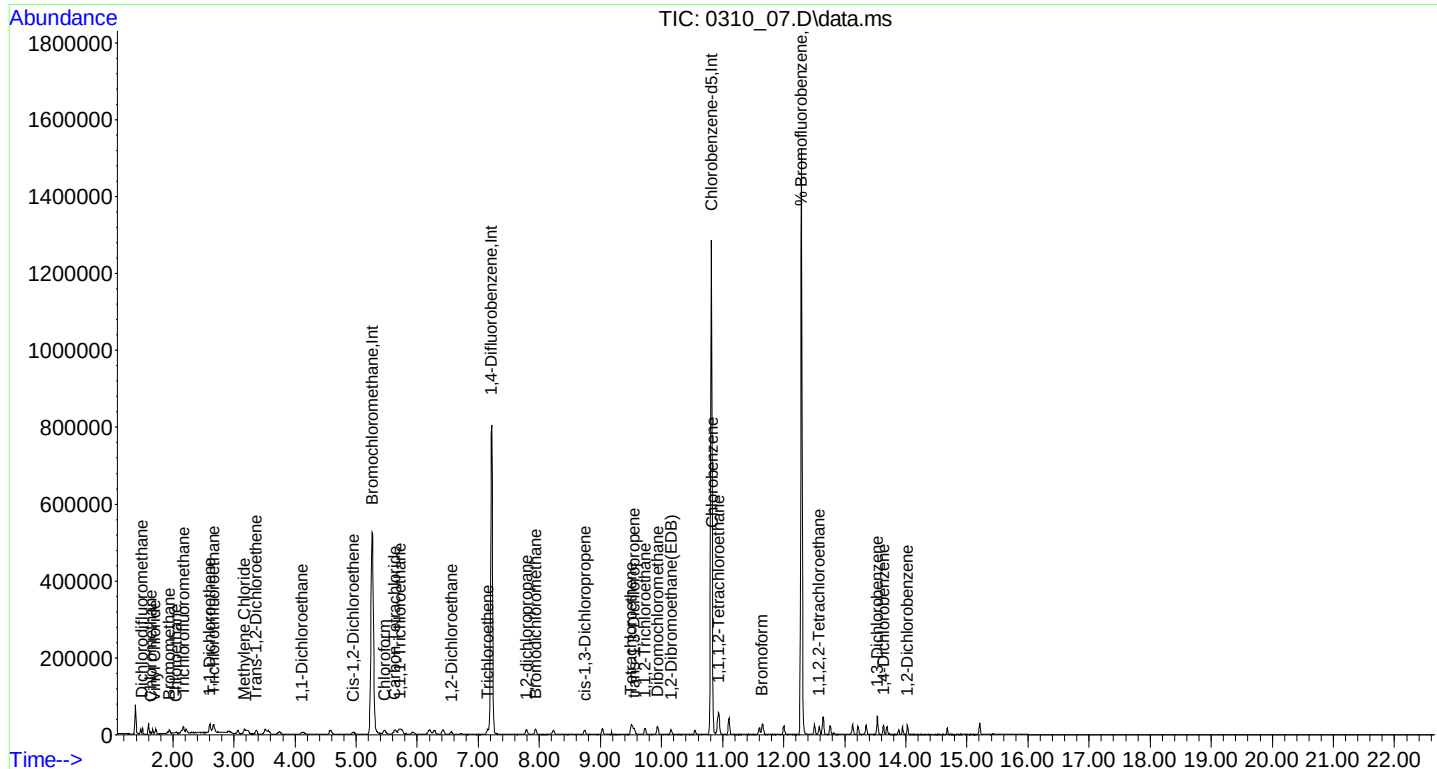
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.791	63	4784	0.181	ppbv	89
97]	Bromodichloromethane(sim)	7.939	83	9236	0.182	ppbv	99
98]	Trichloroethene(sim)	7.154	130	6009	0.184	ppbv	100
100]	cis-1,3-Dichloropropen...	8.741	75	5856	0.183	ppbv	100
101]	1,1,2-Trichloroethane(...	9.727	97	5096	0.188	ppbv	95
102]	Dibromochloromethane(sim)	9.939	129	11823	0.185	ppbv	99
103]	1,2-Dibromoethane(EDB)...	10.160	107	7992	0.174	ppbv	95
104]	Tetrachloroethene(sim)	9.506	166	7065	0.186	ppbv	99
106]	Bromoform(sim)	11.651	173	9611	0.268	ppbv	99
107]	1,1,1,2-Tetrachloroeth...	10.934	131	7095	0.185	ppbv	100
111]	1,1,2,2-Tetrachloroeth...	12.583	83	9764	0.172	ppbv	98
115]	1,3-Dichlorobenzene(sim)	13.537	146	9049	0.170	ppbv	97
116]	1,4-Dichlorobenzene(sim)	13.638	146	8994	0.169	ppbv	99
119]	1,2-Dichlorobenzene(sim)	14.024	146	6806	0.166	ppbv	97

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_07.D
 Acq On : 10 Mar 2021 1:16 pm
 Operator : Keith
 Client ID : ICAL 0.25
 Lab ID : 0.20
 ALS Vial : 51 Sample Multiplier: 1

Quant Time: Mar 12 11:29:00 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_08.D
 Acq On : 10 Mar 2021 1:48 pm
 Operator : Keith
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 11:29:10 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.265	130	231764	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.218	114	716071	10.000	ng	0.00
53) Chlorobenzene-d5	10.815	82	325712	10.000	ng	0.00
80) Bromochloromethane(sim)	5.267	130	241281	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.218	114	716071	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.815	82	325712	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	12.290	95	448667	9.894	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.90%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.499	85	21159	0.500	ppbv	98
4) Chloromethane	1.636	50	14353	0.448	ppbv	87
6) Vinyl Chloride	1.704	62	9496	0.488	ppbv	100
8) Bromomethane	1.944	94	9552	0.505	ppbv	98
9) Chloroethane	2.047	64	4015	0.523	ppbv	98
13) Trichlorofluoromethane	2.170	101	30780	0.518	ppbv	99
16) 1,1-Dichloroethene	2.608	61	17478	0.490	ppbv	97
17) Methylene Chloride	3.169	49	17390	0.472	ppbv	98
21) Trichlorotrifluoroethane	2.670	101	21289	0.508	ppbv	99
22) Trans-1,2-Dichloroethene	3.367	61	14850	0.477	ppbv	97
23) 1,1-Dichloroethane	4.111	63	18524	0.502	ppbv	99
26) Cis-1,2-Dichloroethene	4.952	61	15741	0.471	ppbv	96
28) Chloroform	5.466	83	22193	0.504	ppbv	97
31) 1,2-Dichloroethane	6.560	62	17854	0.513	ppbv	98
32) 1,1,1-Trichloroethane	5.726	97	25130	0.520	ppbv	99
34) Carbon Tetrachloride	5.639	117	27133	0.490	ppbv	98
37) 1,2-dichloropropane	7.786	63	10954	0.484	ppbv	87
38) Bromodichloromethane	7.937	83	23550	0.493	ppbv	100
39) Trichloroethene	7.149	130	13993	0.486	ppbv	99
44) cis-1,3-Dichloropropene	8.736	75	13859	0.465	ppbv	94
46) trans-1,3-Dichloropropene	9.559	75	13037	0.437	ppbv	97
47) 1,1,2-Trichloroethane	9.732	97	12200	0.477	ppbv	98
49) Dibromochloromethane	9.934	129	29040	0.486	ppbv	99
51) 1,2-Dibromoethane(EDB)	10.158	107	21279	0.476	ppbv	100
52) Tetrachloroethene	9.508	166	17228	0.493	ppbv	97
54) 1,1,1,2-Tetrachloroethane	10.939	131	18049	0.492	ppbv	97
55) Chlorobenzene	10.836	112	26729	0.478	ppbv#	79
58) Bromoform	11.646	173	24645	0.494	ppbv	98
60) 1,1,2,2-Tetrachloroethane	12.582	83	26415	0.493	ppbv	99
71) 1,3-Dichlorobenzene	13.535	146	24278	0.470	ppbv	98
72) 1,4-Dichlorobenzene	13.633	146	22450	0.464	ppbv	99
75) 1,2-Dichlorobenzene	14.029	146	19721	0.478	ppbv	99
82) Vinyl Chloride(sim)	1.707	62	10531	0.477	ppbv	100
83) Bromomethane(sim)	1.944	94	9552	0.435	ppbv	98
84) Trichlorofluoromethane...	2.173	101	31786	0.463	ppbv	100
85) 1,1,1-Trichloroethane(...)	5.726	97	24968	0.491	ppbv#	98
87) Carbon Tetrachloride(sim)	5.639	117	27133	0.462	ppbv	98
88) 1,1-Dichloroethene(sim)	2.604	61	19211	0.461	ppbv	100
89) Trichlorotrifluoroetha...	2.670	101	21289	0.468	ppbv	100
90) Trans-1,2-Dichloroethe...	3.364	61	16550	0.461	ppbv	100
91) 1,1-Dichloroethane(sim)	4.111	63	18524	0.448	ppbv	99
92) Cis-1,2-Dichloroethene...	4.960	61	17009	0.467	ppbv	96
93) Chloroform(sim)	5.466	83	22237	0.466	ppbv	97
94) 1,2-Dichloroethane(sim)	6.556	62	18737	0.463	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_08.D
 Acq On : 10 Mar 2021 1:48 pm
 Operator : Keith
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 11:29:10 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration

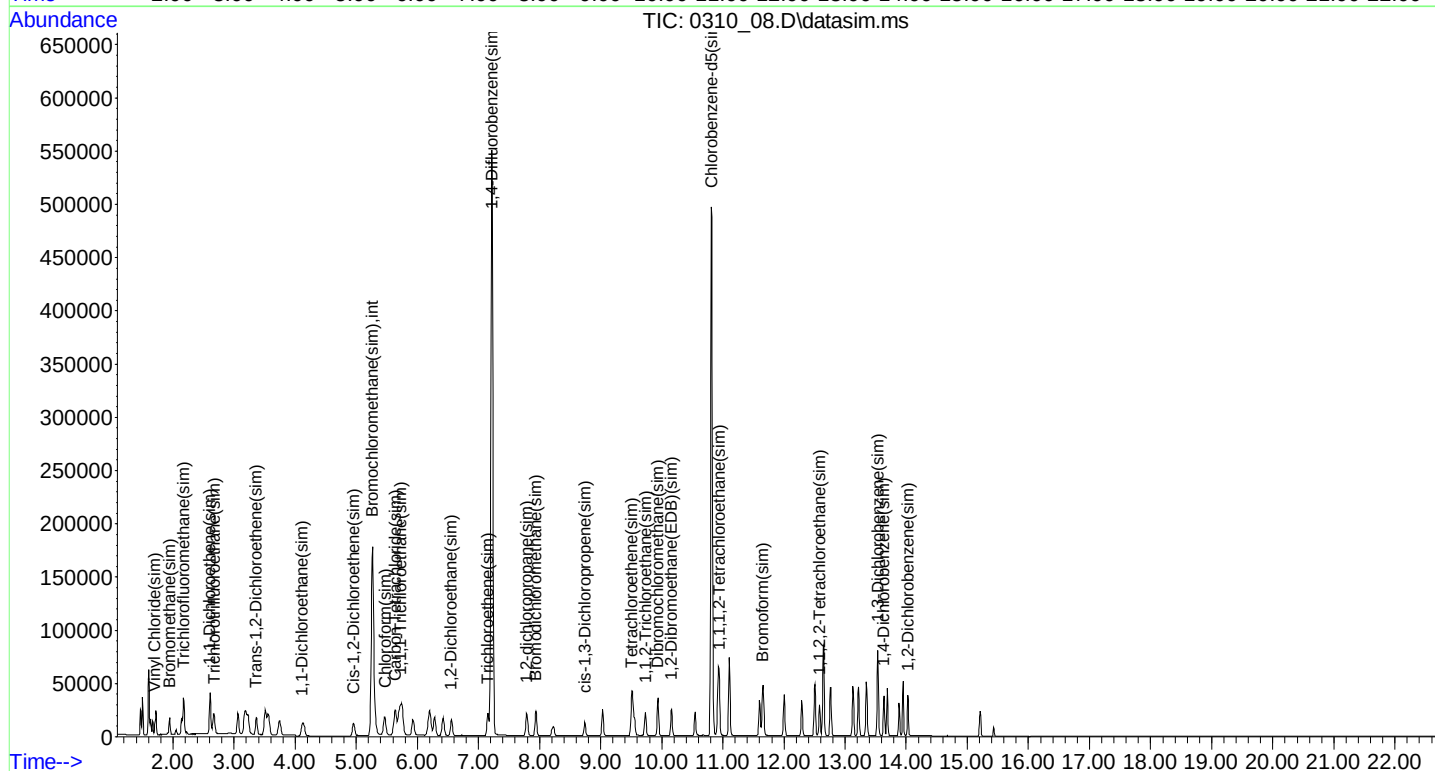
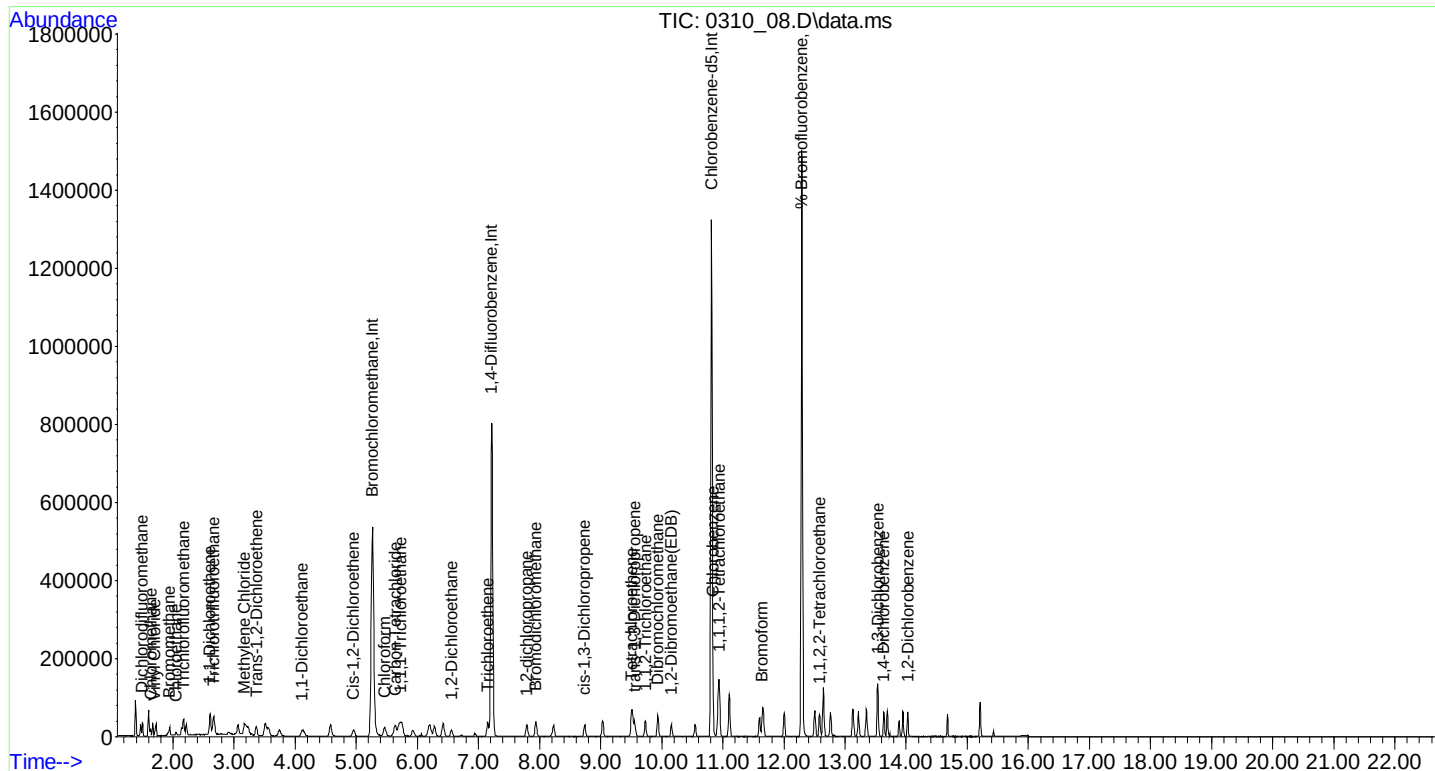
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.789	63	11944	0.457	ppbv	92
97]	Bromodichloromethane(sim)	7.937	83	23550	0.471	ppbv	100
98]	Trichloroethene(sim)	7.152	130	14883	0.463	ppbv	100
100]	cis-1,3-Dichloropropen...	8.739	75	14869	0.471	ppbv	100
101]	1,1,2-Trichloroethane(...	9.732	97	12200	0.457	ppbv	98
102]	Dibromochloromethane(sim)	9.937	129	29904	0.475	ppbv	100
103]	1,2-Dibromoethane(EDB)...	10.158	107	21279	0.468	ppbv	100
104]	Tetrachloroethene(sim)	9.504	166	17596	0.470	ppbv	99
106]	Bromoform(sim)	11.648	173	24414	0.658	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.939	131	17948	0.471	ppbv	98
111]	1,1,2,2-Tetrachloroeth...	12.582	83	26417	0.469	ppbv	99
115]	1,3-Dichlorobenzene(sim)	13.535	146	24326	0.461	ppbv	98
116]	1,4-Dichlorobenzene(sim)	13.636	146	25036	0.475	ppbv	99
119]	1,2-Dichlorobenzene(sim)	14.029	146	19721	0.484	ppbv	99

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_08.D
 Acq On : 10 Mar 2021 1:48 pm
 Operator : Keith
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 52 Sample Multiplier: 1

Quant Time: Mar 12 11:29:10 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:28:02 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_09.D
 Acq On : 10 Mar 2021 2:21 pm
 Operator : Keith
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 11:24:26 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Thu Feb 25 11:04:14 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.265	130	239111	10.000	ng	-0.05
36) 1,4-Difluorobenzene	7.218	114	742576	10.000	ng	-0.04
53) Chlorobenzene-d5	10.815	82	339216	10.000	ng	-0.03
80) Bromochloromethane(sim)	5.268	130	247774	10.000	ng	#-0.05
95) 1,4-Difluorobenzene(sim)	7.218	114	742576	10.000	ng	-0.04
105) Chlorobenzene-d5(sim)	10.815	82	339216	10.000	ng	-0.03

System Monitoring Compounds						
62) % Bromofluorobenzene	12.290	95	471150	9.920	ppbv	-0.03
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.20%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.499	85	99010	2.267	ppbv	98
4) Chloromethane	1.629	50	86937	2.633	ppbv	95
6) Vinyl Chloride	1.697	62	47692	2.374	ppbv	99
8) Bromomethane	1.944	94	46292	2.371	ppbv	97
9) Chloroethane	2.047	64	18345	2.316	ppbv	96
13) Trichlorofluoromethane	2.170	101	151507	2.471	ppbv	100
16) 1,1-Dichloroethene	2.601	61	88705	2.409	ppbv	94
17) Methylene Chloride	3.169	49	96070	2.527	ppbv	88
21) Trichlorotrifluoroethane	2.663	101	102346	2.366	ppbv	98
22) Trans-1,2-Dichloroethene	3.361	61	77272	2.404	ppbv	94
23) 1,1-Dichloroethane	4.116	63	90941	2.388	ppbv	99
26) Cis-1,2-Dichloroethene	4.952	61	80982	2.351	ppbv	93
28) Chloroform	5.466	83	109759	2.414	ppbv	98
31) 1,2-Dichloroethane	6.553	62	87796	2.444	ppbv	99
32) 1,1,1-Trichloroethane	5.726	97	121599	2.441	ppbv	99
34) Carbon Tetrachloride	5.632	117	136259	2.387	ppbv	99
37) 1,2-dichloropropane	7.793	63	53893	2.298	ppbv	85
38) Bromodichloromethane	7.937	83	118418	2.389	ppbv	100
39) Trichloroethene	7.156	130	68497	2.295	ppbv	93
44) cis-1,3-Dichloropropene	8.736	75	72594	2.348	ppbv	97
46) trans-1,3-Dichloropropene	9.559	75	76514	2.472	ppbv	99
47) 1,1,2-Trichloroethane	9.732	97	61798	2.330	ppbv	96
49) Dibromochloromethane	9.934	129	145620	2.348	ppbv	100
51) 1,2-Dibromoethane(EDB)	10.158	107	111848	2.413	ppbv	97
52) Tetrachloroethene	9.508	166	85571	2.363	ppbv	100
54) 1,1,1,2-Tetrachloroethane	10.939	131	91671	2.401	ppbv	98
55) Chlorobenzene	10.836	112	138796	2.383	ppbv	88
58) Bromoform	11.646	173	112822	2.172	ppbv	99
60) 1,1,2,2-Tetrachloroethane	12.582	83	134561	2.413	ppbv	100
71) 1,3-Dichlorobenzene	13.535	146	130365	2.423	ppbv	100
72) 1,4-Dichlorobenzene	13.633	146	120825	2.400	ppbv	98
75) 1,2-Dichlorobenzene	14.029	146	106009	2.469	ppbv	98
82) Vinyl Chloride(sim)	1.700	62	52047	2.296	ppbv	99
83) Bromomethane(sim)	1.944	94	46292	2.054	ppbv	97
84) Trichlorofluoromethane...	2.173	101	157957	2.242	ppbv	100
85) 1,1,1-Trichloroethane(...)	5.726	97	121599	2.328	ppbv#	99
87) Carbon Tetrachloride(sim)	5.632	117	136259	2.261	ppbv	98
88) 1,1-Dichloroethene(sim)	2.604	61	95299	2.228	ppbv	96
89) Trichlorotrifluoroetha...	2.663	101	102346	2.190	ppbv	99
90) Trans-1,2-Dichloroethe...	3.364	61	83471	2.263	ppbv	98
91) 1,1-Dichloroethane(sim)	4.116	63	90941	2.143	ppbv	99
92) Cis-1,2-Dichloroethene...	4.955	61	88315	2.359	ppbv	99
93) Chloroform(sim)	5.466	83	109759	2.241	ppbv	98
94) 1,2-Dichloroethane(sim)	6.556	62	94490	2.272	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_09.D
 Acq On : 10 Mar 2021 2:21 pm
 Operator : Keith
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 11:24:26 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Thu Feb 25 11:04:14 2021
 Response via : Initial Calibration

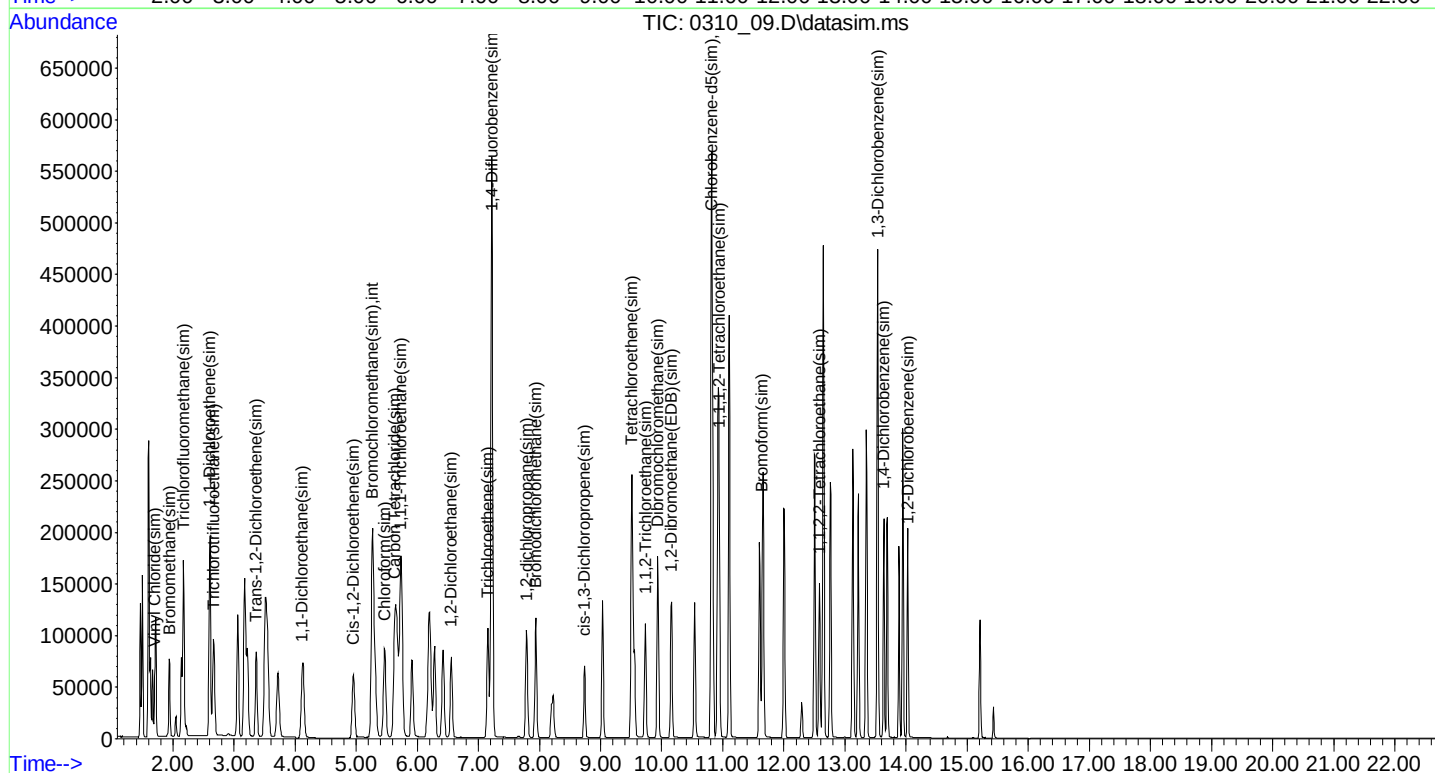
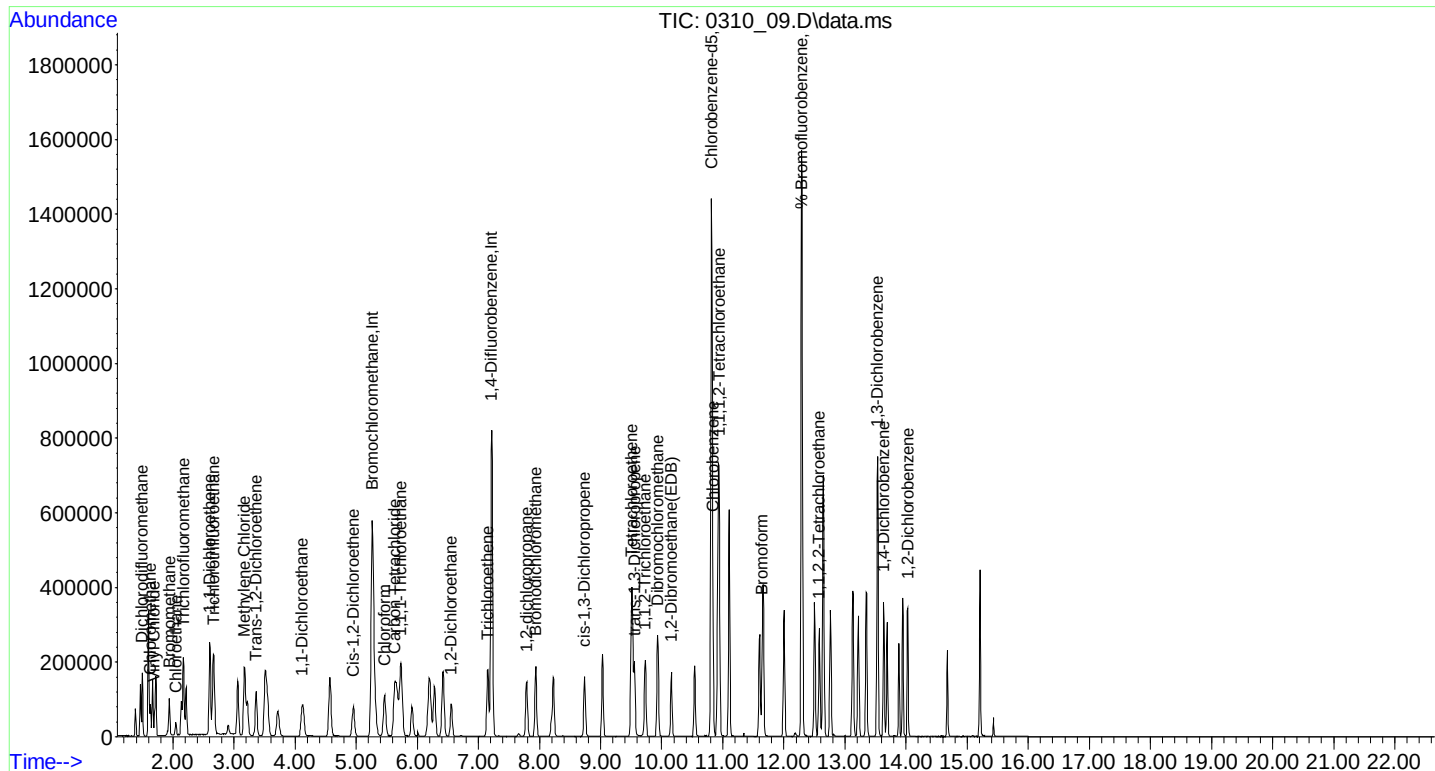
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.789	63	59681	2.204	ppbv	87
97]	Bromodichloromethane(sim)	7.937	83	118418	2.284	ppbv	100
98]	Trichloroethene(sim)	7.152	130	74396	2.231	ppbv	99
100]	cis-1,3-Dichloropropen...	8.739	75	80060	2.447	ppbv	99
101]	1,1,2-Trichloroethane(...	9.732	97	61798	2.232	ppbv	96
102]	Dibromochloromethane(sim)	9.937	129	148435	2.272	ppbv	100
103]	1,2-Dibromoethane(EDB)...	10.158	107	111808	2.372	ppbv	97
104]	Tetrachloroethene(sim)	9.511	166	88627	2.282	ppbv	98
106]	Bromoform(sim)	11.649	173	113404	2.324	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.939	131	91671	2.310	ppbv	98
111]	1,1,2,2-Tetrachloroeth...	12.582	83	134561	2.293	ppbv	99
115]	1,3-Dichlorobenzene(sim)	13.535	146	130365	2.373	ppbv	100
116]	1,4-Dichlorobenzene(sim)	13.636	146	135555	2.467	ppbv	99
119]	1,2-Dichlorobenzene(sim)	14.029	146	105963	2.495	ppbv	98

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_09.D
 Acq On : 10 Mar 2021 2:21 pm
 Operator : Keith
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 53 Sample Multiplier: 1

Quant Time: Mar 12 11:24:26 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Thu Feb 25 11:04:14 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_10.D
 Acq On : 10 Mar 2021 2:50 pm
 Operator : Keith
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 11:25:50 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:25:37 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.265	130	243477	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.218	114	754278	10.000	ng	0.00
53) Chlorobenzene-d5	10.815	82	346423	10.000	ng	0.00
80) Bromochloromethane(sim)	5.267	130	254190	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.218	114	754278	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.815	82	346423	10.000	ng	0.00

System Monitoring Compounds

62) % Bromofluorobenzene 12.296 95 485725 10.095 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 100.90%

Target Compounds

						Qvalue
3) Dichlorodifluoromethane	1.499	85	285100	6.412	ppbv	98
4) Chloromethane	1.629	50	201132	5.982	ppbv	100
6) Vinyl Chloride	1.704	62	111015	5.426	ppbv	99
8) Bromomethane	1.944	94	104837	5.274	ppbv	99
9) Chloroethane	2.047	64	42976	5.328	ppbv	99
13) Trichlorofluoromethane	2.170	101	340265	5.451	ppbv	99
16) 1,1-Dichloroethene	2.601	61	203494	5.426	ppbv	100
17) Methylene Chloride	3.169	49	216650	5.596	ppbv	99
21) Trichlorotrifluoroethane	2.670	101	237254	5.387	ppbv	98
22) Trans-1,2-Dichloroethene	3.361	61	180722	5.522	ppbv	99
23) 1,1-Dichloroethane	4.116	63	208397	5.374	ppbv	99
26) Cis-1,2-Dichloroethene	4.957	61	194699	5.551	ppbv	100
28) Chloroform	5.466	83	255999	5.530	ppbv	99
31) 1,2-Dichloroethane	6.560	62	202364	5.532	ppbv	99
32) 1,1,1-Trichloroethane	5.726	97	278340	5.488	ppbv	99
34) Carbon Tetrachloride	5.639	117	315981	5.435	ppbv	99
37) 1,2-dichloropropane	7.793	63	129989	5.458	ppbv	94
38) Bromodichloromethane	7.944	83	279665	5.554	ppbv	99
39) Trichloroethene	7.156	130	165124	5.447	ppbv	97
44) cis-1,3-Dichloropropene	8.743	75	172415	5.490	ppbv	100
46) trans-1,3-Dichloropropene	9.559	75	181827	5.783	ppbv	99
47) 1,1,2-Trichloroethane	9.732	97	144433	5.361	ppbv	98
49) Dibromochloromethane	9.934	129	345445	5.484	ppbv	100
51) 1,2-Dibromoethane(EDB)	10.158	107	262673	5.579	ppbv	99
52) Tetrachloroethene	9.508	166	195887	5.325	ppbv	99
54) 1,1,1,2-Tetrachloroethane	10.939	131	212387	5.447	ppbv	100
55) Chlorobenzene	10.836	112	322439	5.420	ppbv	98
58) Bromoform	11.652	173	291858	5.503	ppbv	99
60) 1,1,2,2-Tetrachloroethane	12.582	83	310431	5.451	ppbv	100
71) 1,3-Dichlorobenzene	13.535	146	320373	5.830	ppbv	100
72) 1,4-Dichlorobenzene	13.633	146	305904	5.950	ppbv	100
75) 1,2-Dichlorobenzene	14.029	146	255001	5.816	ppbv	99
82) Vinyl Chloride(sim)	1.700	62	121758	5.236	ppbv	100
83) Bromomethane(sim)	1.944	94	104837	4.535	ppbv	99
84) Trichlorofluoromethane...	2.173	101	357889	4.951	ppbv	100
85) 1,1,1-Trichloroethane(...)	5.726	97	278340	5.194	ppbv#	99
87) Carbon Tetrachloride(sim)	5.639	117	315933	5.110	ppbv	99
88) 1,1-Dichloroethene(sim)	2.604	61	218030	4.969	ppbv	100
89) Trichlorotrifluoroetha...	2.670	101	236945	4.941	ppbv	97
90) Trans-1,2-Dichloroethe...	3.364	61	195365	5.163	ppbv	100
91) 1,1-Dichloroethane(sim)	4.116	63	208397	4.786	ppbv	99
92) Cis-1,2-Dichloroethene...	4.960	61	208511	5.429	ppbv	97
93) Chloroform(sim)	5.466	83	255890	5.093	ppbv	99
94) 1,2-Dichloroethane(sim)	6.556	62	219405	5.142	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_10.D
 Acq On : 10 Mar 2021 2:50 pm
 Operator : Keith
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 11:25:50 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:25:37 2021
 Response via : Initial Calibration

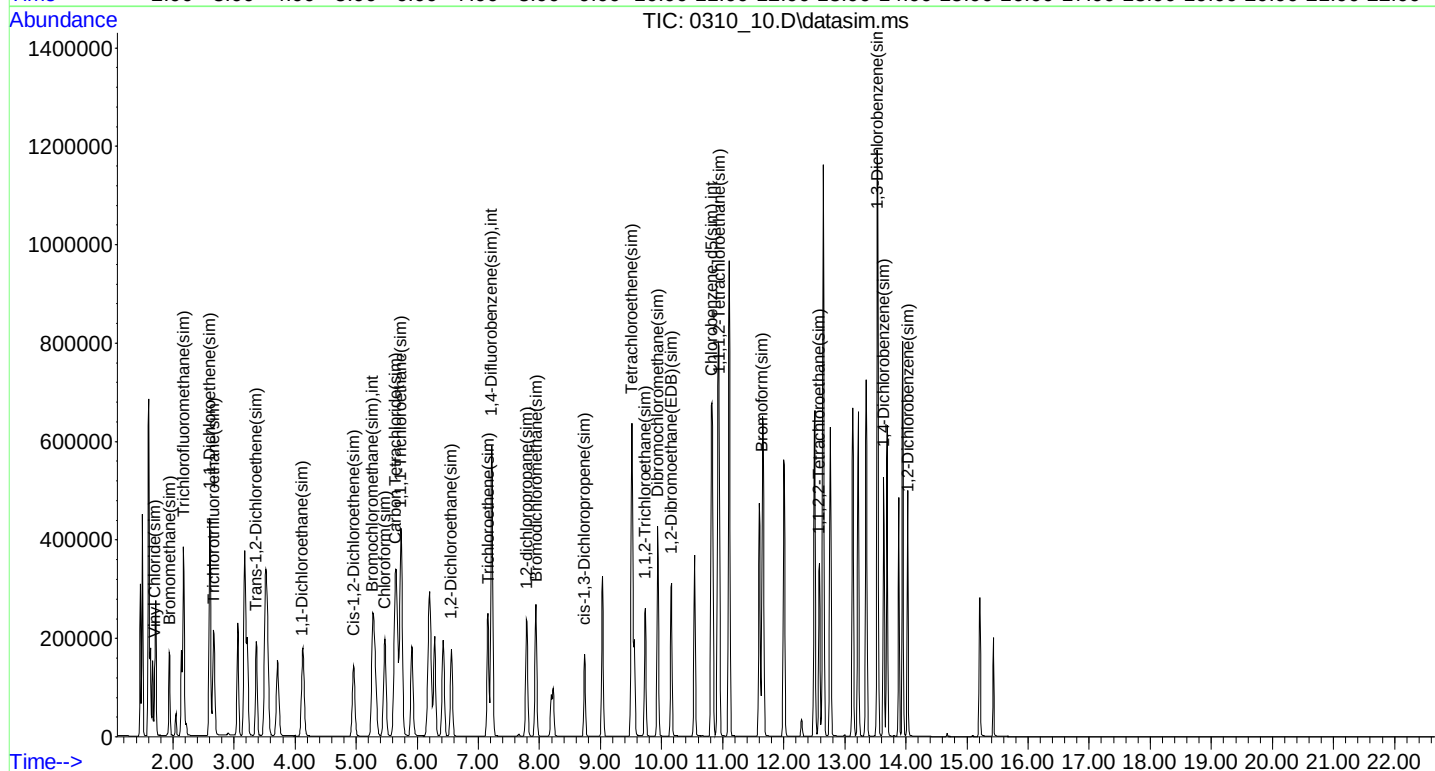
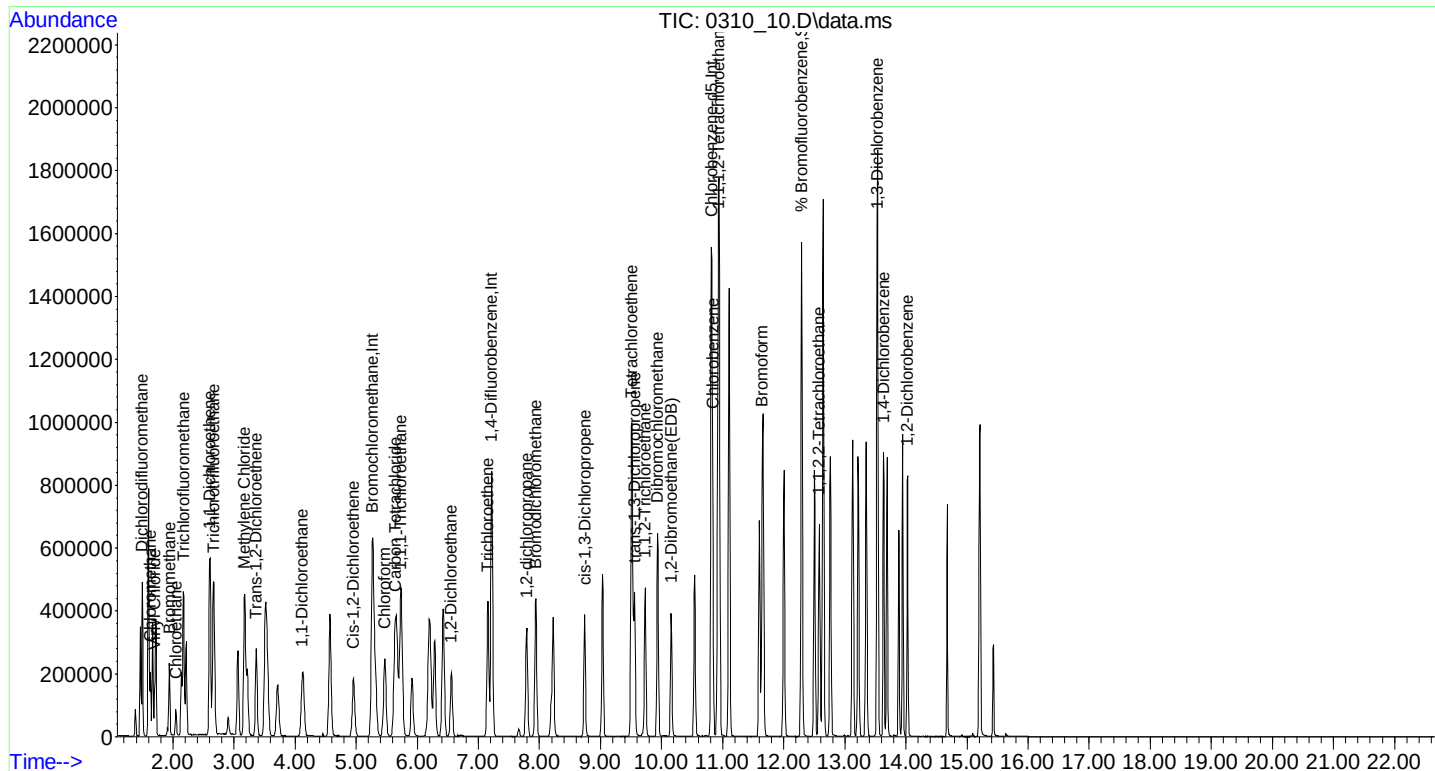
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.789	63	140088	5.094	ppbv	98
97]	Bromodichloromethane(sim)	7.944	83	279621	5.309	ppbv	99
98]	Trichloroethene(sim)	7.159	130	176237	5.203	ppbv	100
100]	cis-1,3-Dichloropropen...	8.739	75	189703	5.707	ppbv	100
101]	1,1,2-Trichloroethane(...	9.732	97	144433	5.137	ppbv	98
102]	Dibromochloromethane(sim)	9.937	129	354343	5.340	ppbv	100
103]	1,2-Dibromoethane(EDB)...	10.158	107	262673	5.486	ppbv	99
104]	Tetrachloroethene(sim)	9.511	166	205244	5.203	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.939	131	212387	5.241	ppbv	100
111]	1,1,2,2-Tetrachloroeth...	12.582	83	310431	5.180	ppbv	100
115]	1,3-Dichlorobenzene(sim)	13.535	146	320373	5.711	ppbv	100
116]	1,4-Dichlorobenzene(sim)	13.636	146	342427	6.103	ppbv	100
119]	1,2-Dichlorobenzene(sim)	14.029	146	255001	5.878	ppbv	100

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_10.D
 Acq On : 10 Mar 2021 2:50 pm
 Operator : Keith
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 54 Sample Multiplier: 1

Quant Time: Mar 12 11:25:50 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:25:37 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_11.D
 Acq On : 10 Mar 2021 3:23 pm
 Operator : Keith
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 11:26:16 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:26:04 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.272	130	260135	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.224	114	798759	10.000	ng	0.00
53) Chlorobenzene-d5	10.815	82	370220	10.000	ng	0.00
80) Bromochloromethane(sim)	5.275	130	271620	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.224	114	798759	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.815	82	370220	10.000	ng	0.00

System Monitoring Compounds
 62) % Bromofluorobenzene 12.296 95 533290 10.322 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 103.20%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.499	85	983264	20.698	ppbv	99
4) Chloromethane	1.629	50	952611	26.517	ppbv	99
6) Vinyl Chloride	1.704	62	546273	24.990	ppbv	99
8) Bromomethane	1.944	94	518535	24.414	ppbv	99
9) Chloroethane	2.047	64	207302	24.055	ppbv	98
13) Trichlorofluoromethane	2.177	101	1622438	24.326	ppbv	99
16) 1,1-Dichloroethene	2.608	61	962283	24.016	ppbv	98
17) Methylene Chloride	3.169	49	1022319	24.717	ppbv	99
21) Trichlorotrifluoroethane	2.670	101	1121519	23.836	ppbv	99
22) Trans-1,2-Dichloroethene	3.367	61	885275	25.320	ppbv	99
23) 1,1-Dichloroethane	4.121	63	991802	23.939	ppbv	100
26) Cis-1,2-Dichloroethene	4.962	61	958120	25.568	ppbv	98
28) Chloroform	5.474	83	1209436	24.454	ppbv	99
31) 1,2-Dichloroethane	6.560	62	982739	25.143	ppbv	100
32) 1,1,1-Trichloroethane	5.733	97	1333289	24.604	ppbv	100
34) Carbon Tetrachloride	5.639	117	1534106	24.699	ppbv	99
37) 1,2-dichloropropane	7.793	63	638049	25.298	ppbv	98
38) Bromodichloromethane	7.944	83	1384479	25.966	ppbv	100
39) Trichloroethene	7.156	130	827630	25.781	ppbv	99
44) cis-1,3-Dichloropropene	8.743	75	904919	27.208	ppbv	100
46) trans-1,3-Dichloropropene	9.559	75	915921	27.508	ppbv	100
47) 1,1,2-Trichloroethane	9.732	97	717441	25.146	ppbv	99
49) Dibromochloromethane	9.941	129	1788633	26.812	ppbv	100
51) 1,2-Dibromoethane(EDB)	10.158	107	1333419	26.742	ppbv	99
52) Tetrachloroethene	9.508	166	991925	25.462	ppbv	99
54) 1,1,1,2-Tetrachloroethane	10.939	131	1078376	25.878	ppbv	99
55) Chlorobenzene	10.836	112	1591350	25.032	ppbv	99
58) Bromoform	11.652	173	1555142	27.435	ppbv	99
60) 1,1,2,2-Tetrachloroethane	12.582	83	1594705	26.203	ppbv	99
71) 1,3-Dichlorobenzene	13.542	146	1652634	28.140	ppbv	100
72) 1,4-Dichlorobenzene	13.639	146	1578370	28.728	ppbv	100
75) 1,2-Dichlorobenzene	14.029	146	1342105	28.641	ppbv	99
82) Vinyl Chloride(sim)	1.700	62	591819	23.817	ppbv	100
83) Bromomethane(sim)	1.944	94	518616	20.996	ppbv	99
84) Trichlorofluoromethane...	2.180	101	1694498	21.939	ppbv	100
85) 1,1,1-Trichloroethane(...)	5.733	97	1334621	23.308	ppbv#	100
87) Carbon Tetrachloride(sim)	5.639	117	1534106	23.220	ppbv	99
88) 1,1-Dichloroethene(sim)	2.604	61	1038734	22.155	ppbv	99
89) Trichlorotrifluoroetha...	2.670	101	1121519	21.888	ppbv	99
90) Trans-1,2-Dichloroethe...	3.370	61	953933	23.592	ppbv	100
91) 1,1-Dichloroethane(sim)	4.121	63	991802	21.315	ppbv	100
92) Cis-1,2-Dichloroethene...	4.960	61	1032583	25.160	ppbv	97
93) Chloroform(sim)	5.474	83	1209436	22.527	ppbv	99
94) 1,2-Dichloroethane(sim)	6.563	62	1060003	23.250	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_11.D
 Acq On : 10 Mar 2021 3:23 pm
 Operator : Keith
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 11:26:16 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:26:04 2021
 Response via : Initial Calibration

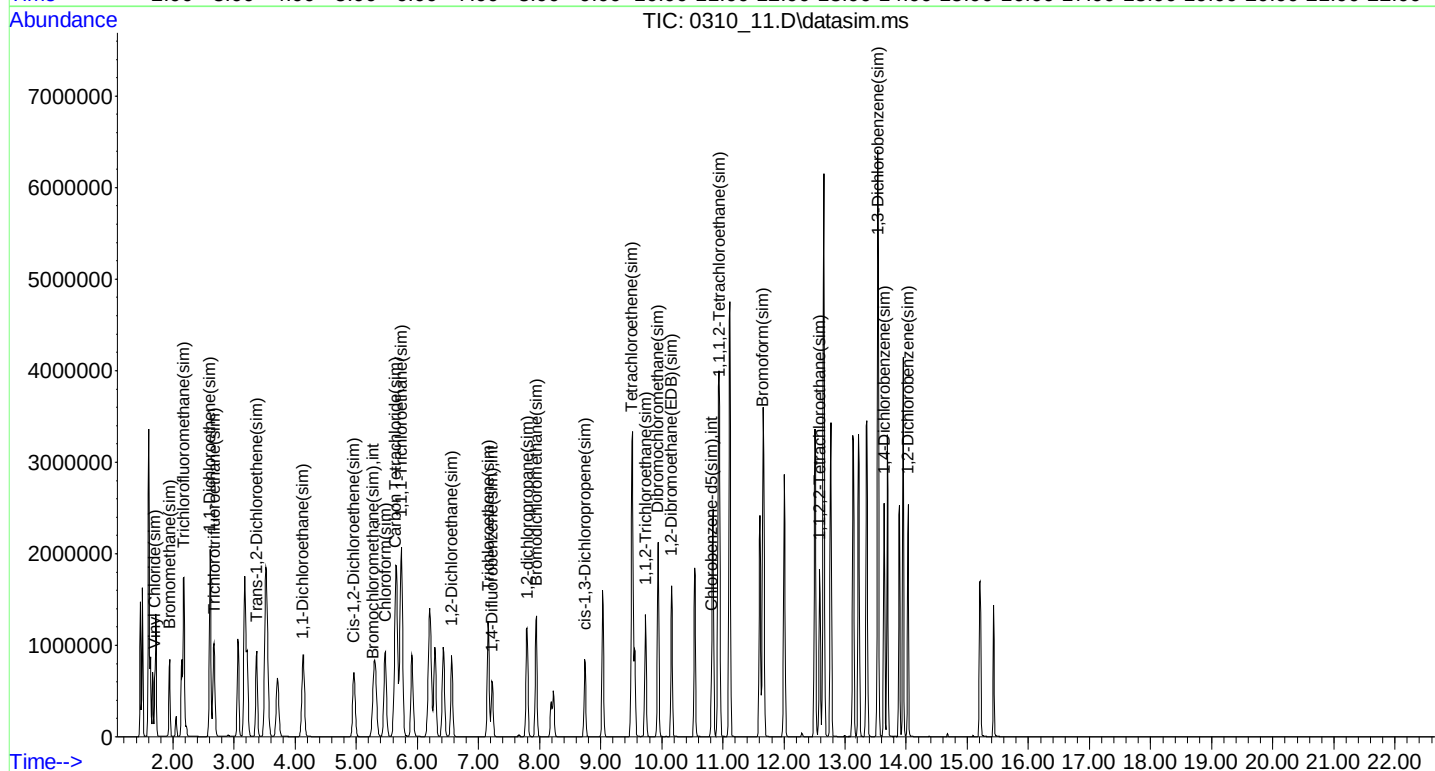
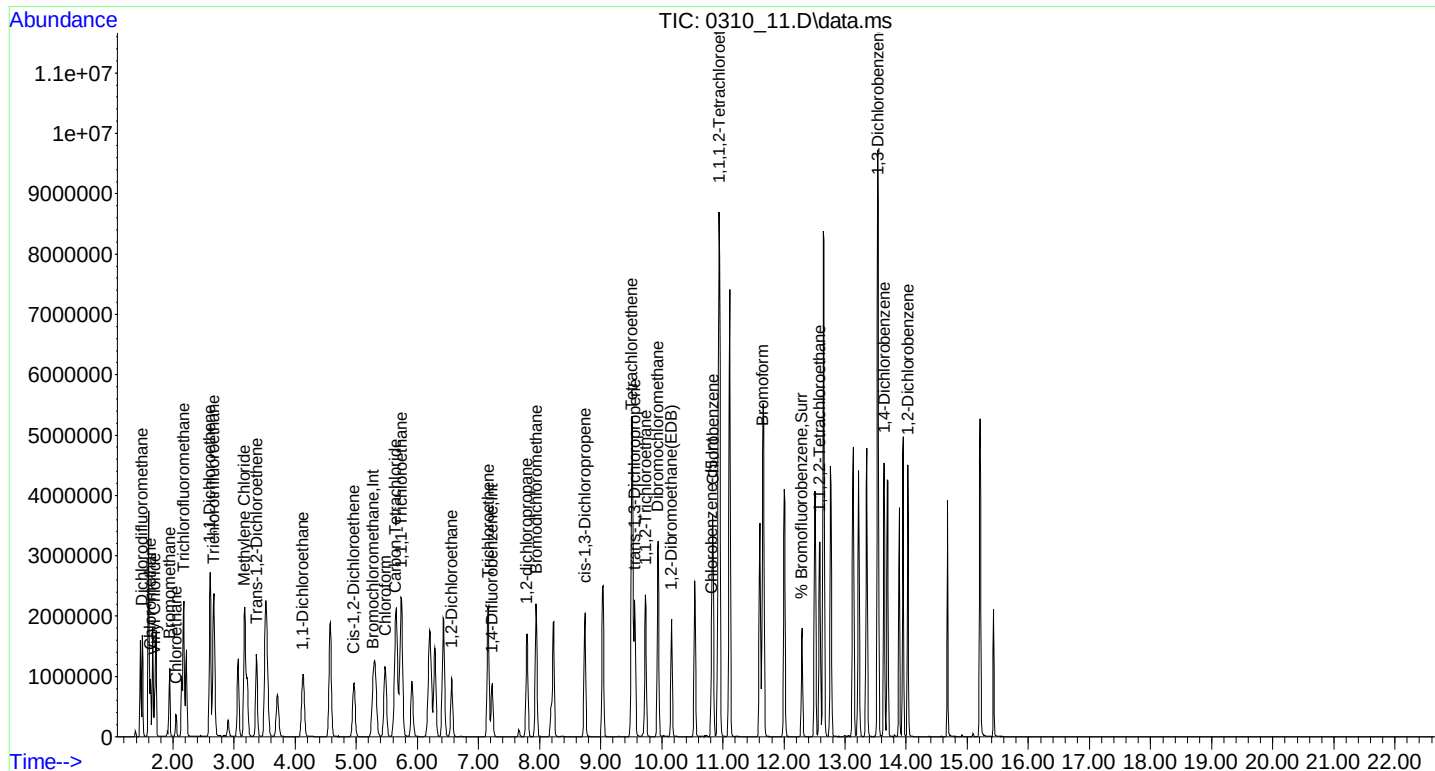
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.796	63	689331	23.671	ppbv	97
97]	Bromodichloromethane(sim)	7.944	83	1384576	24.823	ppbv	100
98]	Trichloroethene(sim)	7.159	130	878768	24.499	ppbv	100
100]	cis-1,3-Dichloropropen...	8.738	75	990697	28.145	ppbv	100
101]	1,1,2-Trichloroethane(...	9.732	97	717612	24.101	ppbv	99
102]	Dibromochloromethane(sim)	9.937	129	1821021	25.914	ppbv	100
103]	1,2-Dibromoethane(EDB)...	10.158	107	1333419	26.297	ppbv	99
104]	Tetrachloroethene(sim)	9.511	166	1037787	24.845	ppbv	100
106]	Bromoform(sim)	11.655	173	1541595	14.382	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.939	131	1078227	24.896	ppbv	99
111]	1,1,2,2-Tetrachloroeth...	12.582	83	1594960	24.902	ppbv	99
115]	1,3-Dichlorobenzene(sim)	13.542	146	1652634	27.568	ppbv	100
116]	1,4-Dichlorobenzene(sim)	13.642	146	1760034	29.353	ppbv	99
119]	1,2-Dichlorobenzene(sim)	14.029	146	1342833	28.966	ppbv	99

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_11.D
 Acq On : 10 Mar 2021 3:23 pm
 Operator : Keith
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 55 Sample Multiplier: 1

Quant Time: Mar 12 11:26:16 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:26:04 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_12.D
 Acq On : 10 Mar 2021 3:59 pm
 Operator : Keith
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 11:26:41 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:26:28 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.272	130	286481	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.225	114	853333	10.000	ng	0.00
53) Chlorobenzene-d5	10.822	82	403308	10.000	ng	0.00
80) Bromochloromethane(sim)	5.275	130	293951	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.225	114	853333	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.822	82	403308	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	12.296	95	552358	9.710	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.10%

Target Compounds					Qvalue	
3) Dichlorodifluoromethane	1.499	85	1434804	27.425	ppbv	100
4) Chloromethane	1.636	50	1531750	38.717	ppbv	98
6) Vinyl Chloride	1.704	62	932011	38.715	ppbv	99
8) Bromomethane	1.944	94	888531	37.987	ppbv	100
9) Chloroethane	2.054	64	355873	37.497	ppbv	99
13) Trichlorofluoromethane	2.177	101	2661087	36.230	ppbv	99
16) 1,1-Dichloroethene	2.608	61	1655379	37.515	ppbv	99
17) Methylene Chloride	3.176	49	1505758	33.057	ppbv	95
21) Trichlorotrifluoroethane	2.670	101	1929790	37.243	ppbv	100
22) Trans-1,2-Dichloroethene	3.368	61	1543759	40.092	ppbv	99
23) 1,1-Dichloroethane	4.126	63	1712768	37.539	ppbv	99
26) Cis-1,2-Dichloroethene	4.967	61	1646277	39.892	ppbv	99
28) Chloroform	5.474	83	2049511	37.629	ppbv	99
31) 1,2-Dichloroethane	6.567	62	1643008	38.169	ppbv	99
32) 1,1,1-Trichloroethane	5.733	97	2268453	38.011	ppbv	100
34) Carbon Tetrachloride	5.647	117	2587339	37.825	ppbv	100
37) 1,2-dichloropropane	7.793	63	1099752	40.816	ppbv	97
38) Bromodichloromethane	7.944	83	2359143	41.416	ppbv	100
39) Trichloroethene	7.163	130	1432187	41.760	ppbv	100
44) cis-1,3-Dichloropropene	8.743	75	1559980	43.904	ppbv	100
46) trans-1,3-Dichloropropene	9.559	75	1608395	45.215	ppbv	100
47) 1,1,2-Trichloroethane	9.739	97	1252813	41.102	ppbv	100
49) Dibromochloromethane	9.941	129	3018383	42.353	ppbv	99
51) 1,2-Dibromoethane(EDB)	10.165	107	2302378	43.221	ppbv	100
52) Tetrachloroethene	9.508	166	1705090	40.970	ppbv	100
54) 1,1,1,2-Tetrachloroethane	10.946	131	1838827	40.507	ppbv	100
55) Chlorobenzene	10.843	112	2754948	39.781	ppbv	100
58) Bromoform	11.652	173	2690413	43.570	ppbv	99
60) 1,1,2,2-Tetrachloroethane	12.588	83	2704907	40.799	ppbv	100
71) 1,3-Dichlorobenzene	13.542	146	2740626	42.837	ppbv	100
72) 1,4-Dichlorobenzene	13.639	146	2637540	44.067	ppbv	100
75) 1,2-Dichlorobenzene	14.029	146	2191064	42.922	ppbv	99
82) Vinyl Chloride(sim)	1.707	62	1005236	37.382	ppbv	100
83) Bromomethane(sim)	1.944	94	889494	33.275	ppbv	100
84) Trichlorofluoromethane...	2.180	101	2784544	33.313	ppbv	100
85) 1,1,1-Trichloroethane(...)	5.733	97	2268453	36.607	ppbv#	100
87) Carbon Tetrachloride(sim)	5.647	117	2587339	36.186	ppbv	100
88) 1,1-Dichloroethene(sim)	2.611	61	1772572	34.935	ppbv	99
89) Trichlorotrifluoroetha...	2.670	101	1929790	34.802	ppbv	100
90) Trans-1,2-Dichloroethe...	3.370	61	1657321	37.873	ppbv	100
91) 1,1-Dichloroethane(sim)	4.126	63	1712768	34.013	ppbv	99
92) Cis-1,2-Dichloroethene...	4.965	61	1748533	39.368	ppbv	99
93) Chloroform(sim)	5.474	83	2049511	35.274	ppbv	99
94) 1,2-Dichloroethane(sim)	6.563	62	1778473	36.046	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_12.D
 Acq On : 10 Mar 2021 3:59 pm
 Operator : Keith
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 11:26:41 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:26:28 2021
 Response via : Initial Calibration

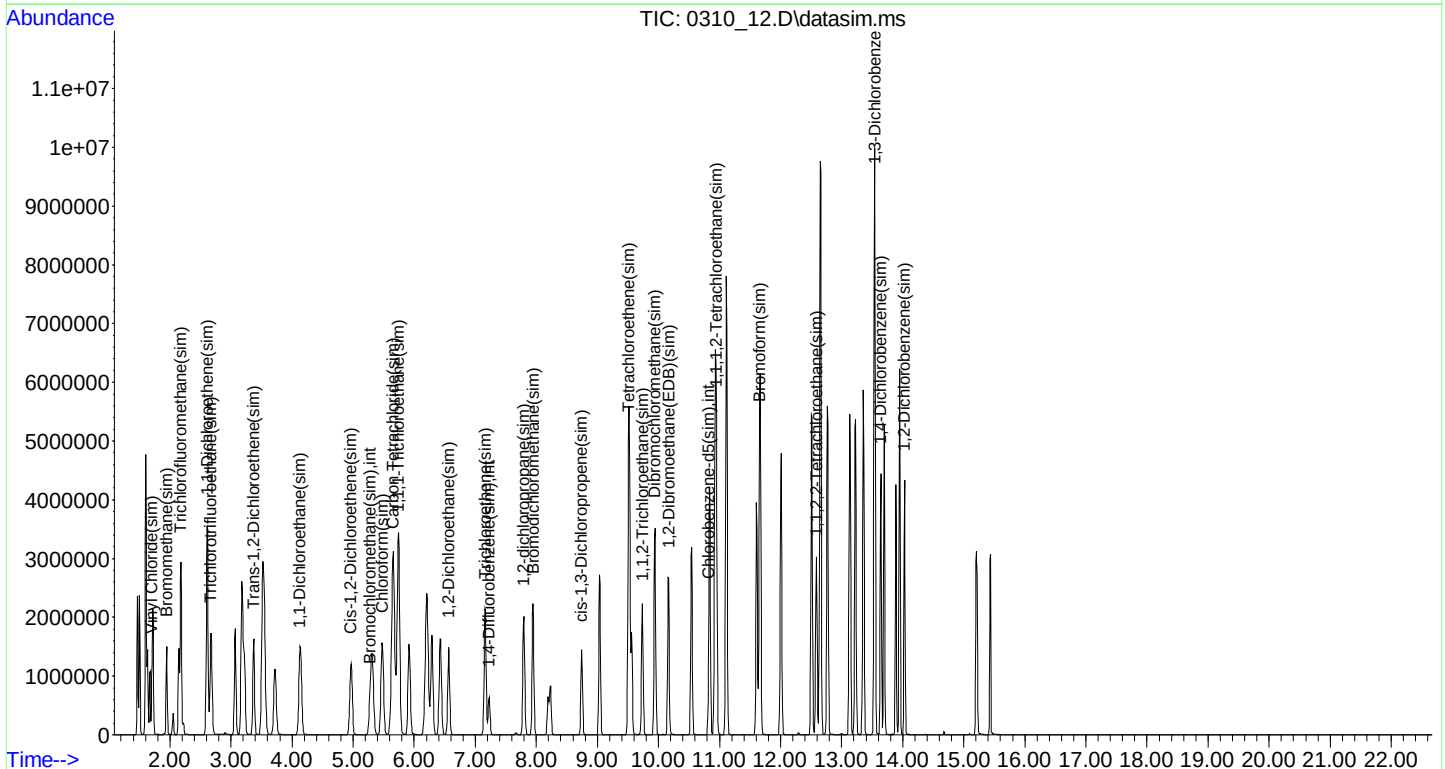
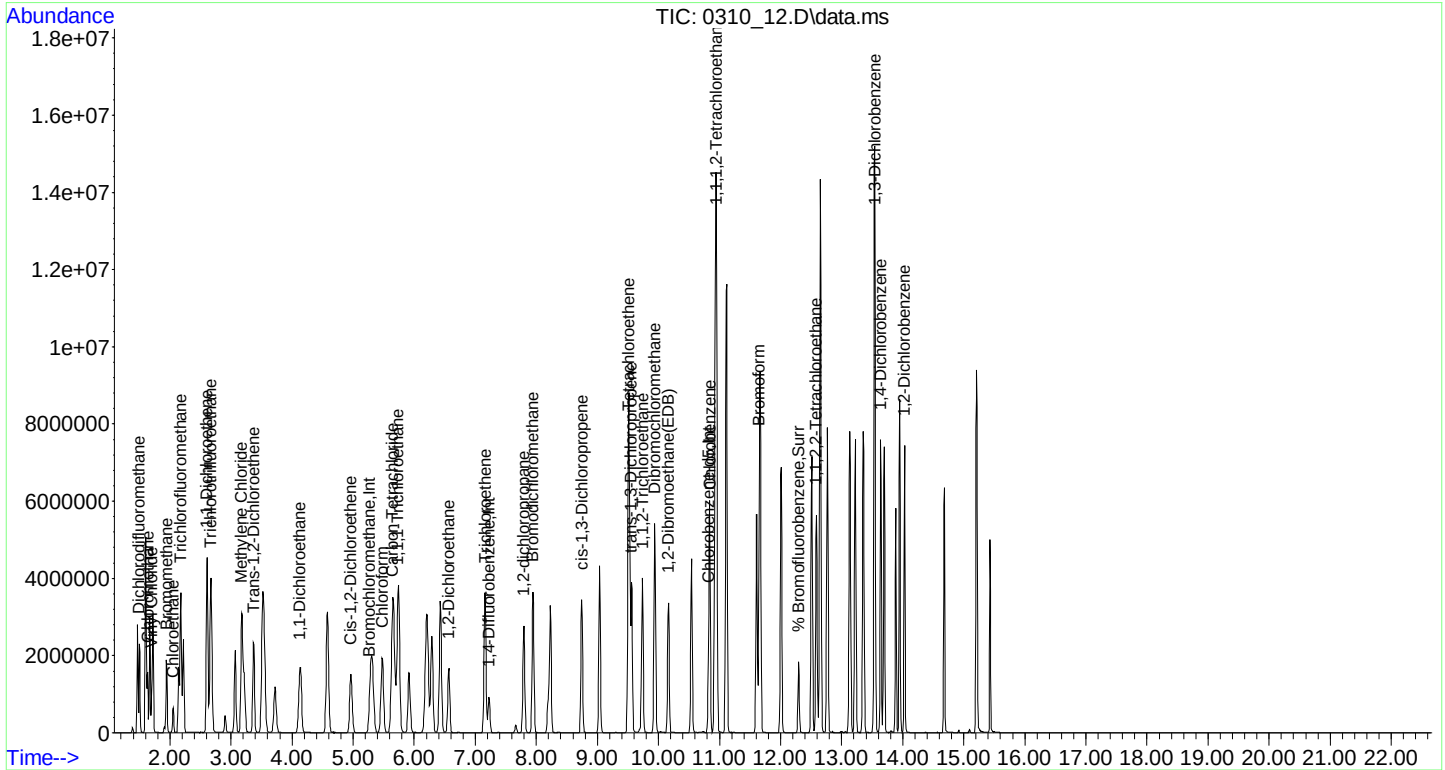
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.796	63	1193818	38.372	ppbv	97
97]	Bromodichloromethane(sim)	7.944	83	2359702	39.599	ppbv	100
98]	Trichloroethene(sim)	7.159	130	1513434	39.494	ppbv	100
100]	cis-1,3-Dichloropropen...	8.739	75	1716175	45.638	ppbv	100
101]	1,1,2-Trichloroethane(...	9.739	97	1252813	39.384	ppbv	100
102]	Dibromochloromethane(sim)	9.944	129	3055124	40.696	ppbv	100
103]	1,2-Dibromoethane(EDB)...	10.165	107	2302378	42.503	ppbv	100
104]	Tetrachloroethene(sim)	9.511	166	1772573	39.722	ppbv	100
106]	Bromoform(sim)	11.655	173	2656509	18.891	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.946	131	1838597	38.970	ppbv	100
111]	1,1,2,2-Tetrachloroeth...	12.588	83	2705059	38.769	ppbv	100
115]	1,3-Dichlorobenzene(sim)	13.542	146	2740626	41.967	ppbv	100
116]	1,4-Dichlorobenzene(sim)	13.642	146	2910840	44.563	ppbv	100
119]	1,2-Dichlorobenzene(sim)	14.029	146	2191373	43.391	ppbv	99

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_12.D
 Acq On : 10 Mar 2021 3:59 pm
 Operator : Keith
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 56 Sample Multiplier: 1

Quant Time: Mar 12 11:26:41 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:26:28 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_14.D
 Acq On : 10 Mar 2021 4:57 pm
 Operator : Keith
 Client ID : ICAL 1
 Lab ID : 1ppb
 ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 11:27:21 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:26:56 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.265	130	267959	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.218	114	846753	10.000	ng	0.00
53) Chlorobenzene-d5	10.816	82	386928	10.000	ng	0.00
80) Bromochloromethane(sim)	5.268	130	276144	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.218	114	846753	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.816	82	386928	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	12.290	95	530216	9.786	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.90%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.499	85	52548	1.074	ppbv	98
4) Chloromethane	1.636	50	30640	0.828	ppbv	87
6) Vinyl Chloride	1.704	62	23457	1.042	ppbv	98
8) Bromomethane	1.944	94	21901	1.001	ppbv	98
9) Chloroethane	2.047	64	8781	0.989	ppbv	98
13) Trichlorofluoromethane	2.177	101	65343	0.951	ppbv	99
16) 1,1-Dichloroethene	2.602	61	39636	0.960	ppbv	99
17) Methylene Chloride	3.169	49	43219	1.014	ppbv	97
21) Trichlorotrifluoroethane	2.670	101	47970	0.990	ppbv	98
22) Trans-1,2-Dichloroethene	3.361	61	35461	0.985	ppbv	99
23) 1,1-Dichloroethane	4.116	63	42004	0.984	ppbv	100
26) Cis-1,2-Dichloroethene	4.957	61	37823	0.980	ppbv	100
28) Chloroform	5.467	83	51239	1.006	ppbv	99
31) 1,2-Dichloroethane	6.560	62	38773	0.963	ppbv	99
32) 1,1,1-Trichloroethane	5.726	97	55051	0.986	ppbv	98
34) Carbon Tetrachloride	5.640	117	60875	0.951	ppbv	99
37) 1,2-dichloropropane	7.793	63	26327	0.985	ppbv	97
38) Bromodichloromethane	7.937	83	53625	0.949	ppbv	97
39) Trichloroethene	7.156	130	33019	0.970	ppbv	99
44) cis-1,3-Dichloropropene	8.736	75	32993	0.936	ppbv	98
46) trans-1,3-Dichloropropene	9.559	75	33299	0.943	ppbv	99
47) 1,1,2-Trichloroethane	9.732	97	29076	0.961	ppbv	97
49) Dibromochloromethane	9.934	129	65985	0.933	ppbv	99
51) 1,2-Dibromoethane(EDB)	10.158	107	49941	0.945	ppbv	99
52) Tetrachloroethene	9.509	166	38918	0.942	ppbv	98
54) 1,1,1,2-Tetrachloroethane	10.939	131	41154	0.945	ppbv	98
55) Chlorobenzene	10.836	112	64222	0.967	ppbv	91
58) Bromoform	11.646	173	48961	0.826	ppbv	98
60) 1,1,2,2-Tetrachloroethane	12.582	83	60716	0.955	ppbv	100
71) 1,3-Dichlorobenzene	13.536	146	55569	0.905	ppbv	100
72) 1,4-Dichlorobenzene	13.633	146	52061	0.907	ppbv	99
75) 1,2-Dichlorobenzene	14.023	146	42626	0.870	ppbv	98
82) Vinyl Chloride(sim)	1.700	62	24604	0.974	ppbv	100
83) Bromomethane(sim)	1.944	94	21901	0.872	ppbv	98
84) Trichlorofluoromethane...	2.173	101	69035	0.879	ppbv	99
85) 1,1,1-Trichloroethane(...)	5.726	97	55051	0.946	ppbv#	98
87) Carbon Tetrachloride(sim)	5.640	117	60875	0.906	ppbv	99
88) 1,1-Dichloroethene(sim)	2.604	61	42959	0.901	ppbv	100
89) Trichlorotrifluoroetha...	2.670	101	47891	0.919	ppbv	98
90) Trans-1,2-Dichloroethe...	3.364	61	38866	0.945	ppbv	99
91) 1,1-Dichloroethane(sim)	4.116	63	42004	0.888	ppbv	100
92) Cis-1,2-Dichloroethene...	4.955	61	40396	0.968	ppbv	98
93) Chloroform(sim)	5.467	83	51239	0.939	ppbv	99
94) 1,2-Dichloroethane(sim)	6.556	62	41918	0.904	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_14.D
 Acq On : 10 Mar 2021 4:57 pm
 Operator : Keith
 Client ID : ICAL 1
 Lab ID : 1ppb
 ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 11:27:21 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:26:56 2021
 Response via : Initial Calibration

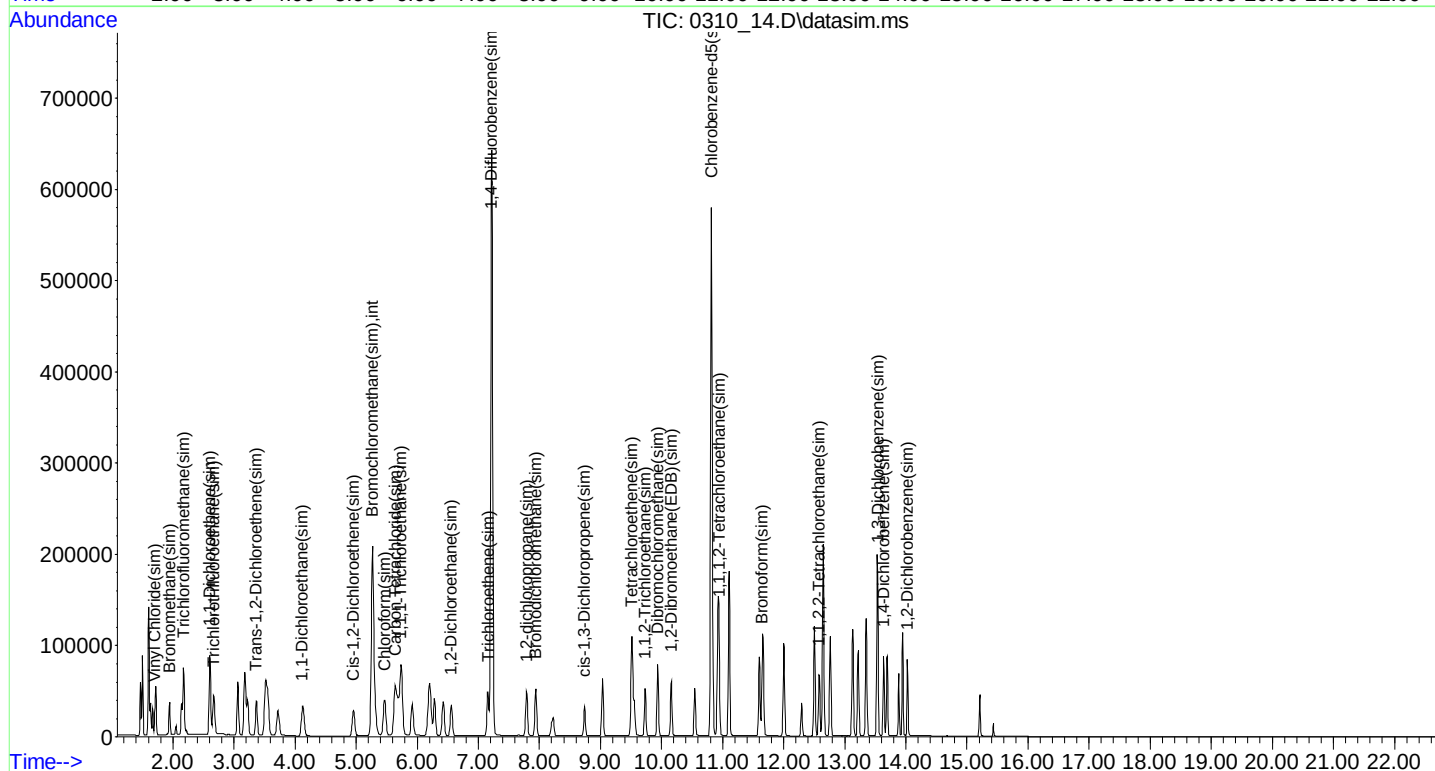
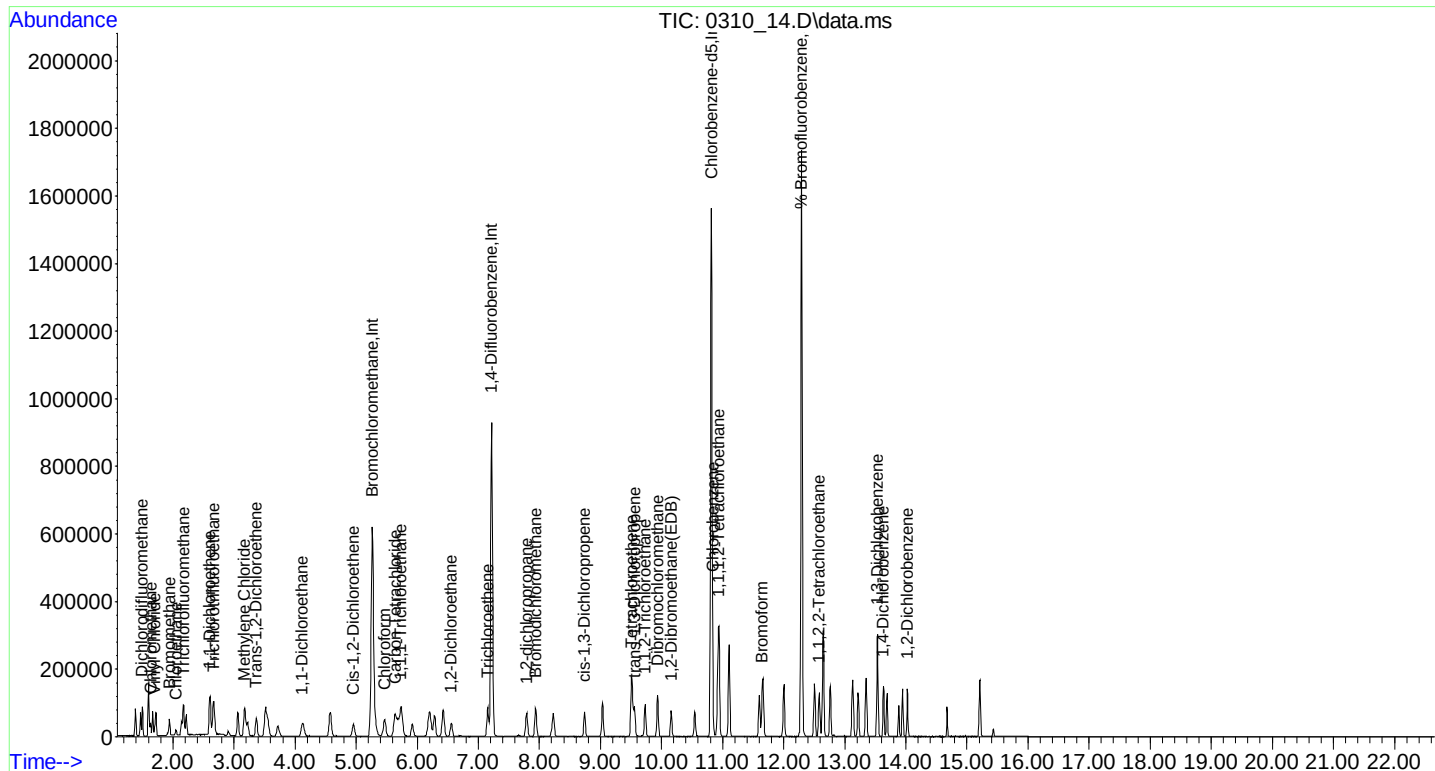
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.789	63	28711	0.930	ppbv	98
97]	Bromodichloromethane(sim)	7.937	83	53625	0.907	ppbv	97
98]	Trichloroethene(sim)	7.159	130	34744	0.914	ppbv	100
100]	cis-1,3-Dichloropropen...	8.739	75	37202	0.997	ppbv	100
101]	1,1,2-Trichloroethane(...	9.732	97	29076	0.921	ppbv	97
102]	Dibromochloromethane(sim)	9.937	129	65572	0.880	ppbv	100
103]	1,2-Dibromoethane(EDB)...	10.158	107	49941	0.929	ppbv	99
104]	Tetrachloroethene(sim)	9.511	166	41145	0.929	ppbv	100
106]	Bromoform(sim)	11.649	173	49363	1.105	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.939	131	41066	0.907	ppbv	97
111]	1,1,2,2-Tetrachloroeth...	12.582	83	60596	0.905	ppbv	100
115]	1,3-Dichlorobenzene(sim)	13.536	146	55569	0.887	ppbv	100
116]	1,4-Dichlorobenzene(sim)	13.636	146	57870	0.923	ppbv	99
119]	1,2-Dichlorobenzene(sim)	14.023	146	42626	0.880	ppbv	98

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_14.D
 Acq On : 10 Mar 2021 4:57 pm
 Operator : Keith
 Client ID : ICAL 1
 Lab ID : 1ppb
 ALS Vial : 58 Sample Multiplier: 1

Quant Time: Mar 12 11:27:21 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:26:56 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_15.D
 Acq On : 10 Mar 2021 5:26 pm
 Operator : Keith
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 12 11:27:49 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:27:36 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.265	130	269022	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.225	114	840816	10.000	ng	0.00
53) Chlorobenzene-d5	10.815	82	382200	10.000	ng	0.00
80) Bromochloromethane(sim)	5.268	130	278251	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.225	114	840816	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.815	82	382200	10.000	ng	0.00

System Monitoring Compounds						
62) % Bromofluorobenzene	12.296	95	528122	9.910	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.10%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.499	85	479496	9.760	ppbv	99
4) Chloromethane	1.629	50	402804	10.842	ppbv	86
6) Vinyl Chloride	1.704	62	234577	10.376	ppbv	99
8) Bromomethane	1.944	94	218182	9.933	ppbv	98
9) Chloroethane	2.047	64	88346	9.913	ppbv	96
13) Trichlorofluoromethane	2.170	101	674979	9.786	ppbv	98
16) 1,1-Dichloroethene	2.601	61	407565	9.836	ppbv	99
17) Methylene Chloride	3.169	49	436355	10.201	ppbv	99
21) Trichlorotrifluoroethane	2.670	101	471941	9.699	ppbv	98
22) Trans-1,2-Dichloroethene	3.368	61	375716	10.391	ppbv	99
23) 1,1-Dichloroethane	4.116	63	431141	10.063	ppbv	100
26) Cis-1,2-Dichloroethene	4.957	61	412840	10.653	ppbv	99
28) Chloroform	5.466	83	515420	10.077	ppbv	99
31) 1,2-Dichloroethane	6.560	62	401628	9.936	ppbv	99
32) 1,1,1-Trichloroethane	5.726	97	564716	10.077	ppbv	98
34) Carbon Tetrachloride	5.639	117	641185	9.982	ppbv	99
37) 1,2-dichloropropane	7.793	63	269548	10.153	ppbv	99
38) Bromodichloromethane	7.944	83	579874	10.332	ppbv	97
39) Trichloroethene	7.156	130	350569	10.374	ppbv	98
44) cis-1,3-Dichloropropene	8.743	75	377636	10.786	ppbv	97
46) trans-1,3-Dichloropropene	9.559	75	381562	10.886	ppbv	98
47) 1,1,2-Trichloroethane	9.732	97	302478	10.071	ppbv	97
49) Dibromochloromethane	9.934	129	737923	10.509	ppbv	100
51) 1,2-Dibromoethane(EDB)	10.158	107	557362	10.619	ppbv	99
52) Tetrachloroethene	9.508	166	416309	10.152	ppbv	98
54) 1,1,1,2-Tetrachloroethane	10.939	131	438667	10.197	ppbv	98
55) Chlorobenzene	10.836	112	671625	10.234	ppbv	91
58) Bromoform	11.652	173	622389	10.636	ppbv	98
60) 1,1,2,2-Tetrachloroethane	12.582	83	650338	10.351	ppbv	100
71) 1,3-Dichlorobenzene	13.535	146	663462	10.943	ppbv	100
72) 1,4-Dichlorobenzene	13.639	146	631585	11.135	ppbv	99
75) 1,2-Dichlorobenzene	14.029	146	531499	10.987	ppbv	98
82) Vinyl Chloride(sim)	1.700	62	252952	9.937	ppbv	99
83) Bromomethane(sim)	1.944	94	218182	8.622	ppbv	98
84) Trichlorofluoromethane...	2.173	101	705260	8.913	ppbv	100
85) 1,1,1-Trichloroethane(...)	5.726	97	565200	9.635	ppbv#	98
87) Carbon Tetrachloride(sim)	5.639	117	641185	9.474	ppbv	99
88) 1,1-Dichloroethene(sim)	2.604	61	438044	9.120	ppbv	99
89) Trichlorotrifluoroetha...	2.670	101	471941	8.991	ppbv	98
90) Trans-1,2-Dichloroethe...	3.364	61	405044	9.778	ppbv	100
91) 1,1-Dichloroethane(sim)	4.116	63	431188	9.046	ppbv	100
92) Cis-1,2-Dichloroethene...	4.960	61	434764	10.341	ppbv	97
93) Chloroform(sim)	5.466	83	514917	9.362	ppbv	99
94) 1,2-Dichloroethane(sim)	6.563	62	437707	9.372	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_15.D
 Acq On : 10 Mar 2021 5:26 pm
 Operator : Keith
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 12 11:27:49 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:27:36 2021
 Response via : Initial Calibration

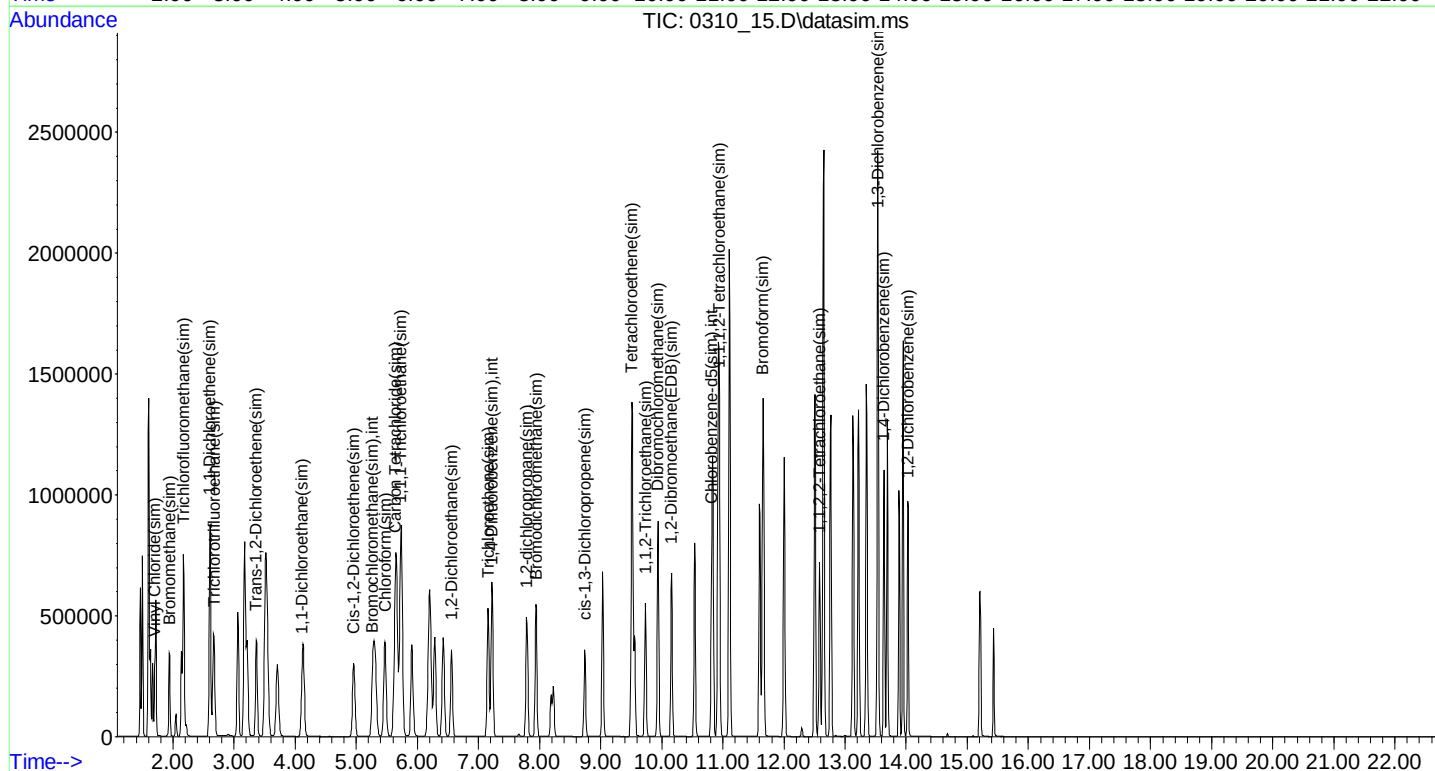
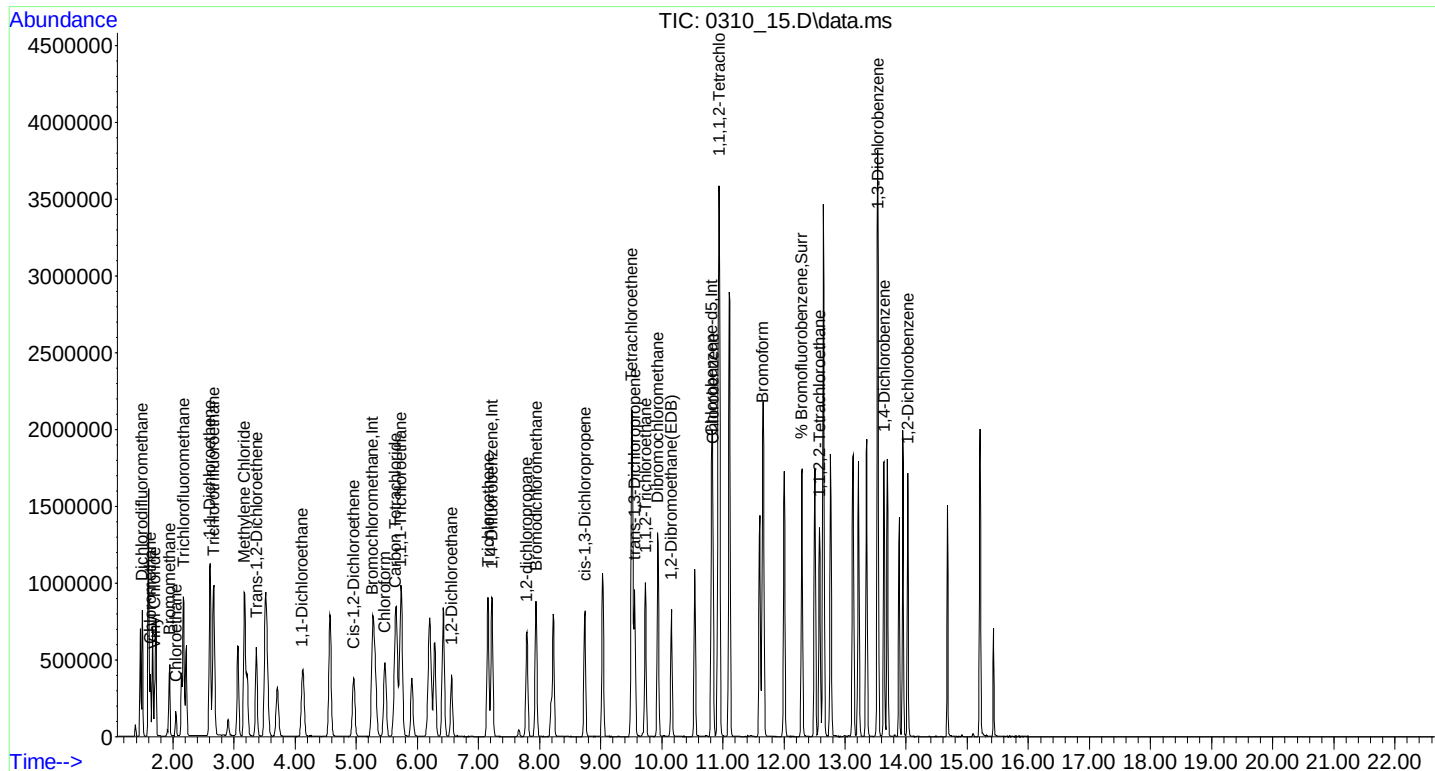
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.789	63	293162	9.563	ppbv	99
97]	Bromodichloromethane(sim)	7.944	83	579654	9.872	ppbv	97
98]	Trichloroethene(sim)	7.159	130	372206	9.858	ppbv	100
100]	cis-1,3-Dichloropropen...	8.739	75	416437	11.239	ppbv	100
101]	1,1,2-Trichloroethane(...	9.732	97	302478	9.650	ppbv	97
102]	Dibromochloromethane(sim)	9.937	129	746494	10.092	ppbv	100
103]	1,2-Dibromoethane(EDB)...	10.158	107	556720	10.430	ppbv	99
104]	Tetrachloroethene(sim)	9.511	166	431994	9.825	ppbv	100
106]	Bromoform(sim)	11.655	173	615099	7.966	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.939	131	438713	9.812	ppbv	97
111]	1,1,2,2-Tetrachloroeth...	12.582	83	650338	9.835	ppbv	100
115]	1,3-Dichlorobenzene(sim)	13.535	146	663462	10.721	ppbv	100
116]	1,4-Dichlorobenzene(sim)	13.636	146	705384	11.395	ppbv	100
119]	1,2-Dichlorobenzene(sim)	14.029	146	531621	11.108	ppbv	98

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\10\
 Data File : 0310_15.D
 Acq On : 10 Mar 2021 5:26 pm
 Operator : Keith
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 59 Sample Multiplier: 1

Quant Time: Mar 12 11:27:49 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:27:36 2021
 Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: ECMS

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH77085

Instrument: CHEM20 Calibration Date: 03/11/21 Time: 15:09

Lab File Id: 0311_03.D Init. Calib. Date(s): 03/08/21 03/09/21

Heated Purge (Y/N): Y Init. Calib. Times: 17:33 00:58

GC Column: RTX-1 60M Method File: 20_AIR_0308.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Dichlorodifluoromethane	2.520	2.635		-4.6	30
Chloromethane	1.940	1.920		1.0	30
Vinyl Chloride	1.348	1.399		-3.8	30
Bromomethane	0.945	0.962		-1.8	30
Chloroethane	0.642	0.617		3.9	30
Trichlorofluoromethane	3.139	2.881		8.2	30
1,1-Dichloroethene	2.377	2.064		13.2	30
Methylene Chloride	2.597	2.427		6.5	30
Trichlorotrifluoroethane	2.226	2.141		3.8	30
Trans-1,2-Dichloroethene	1.889	1.801		4.7	30
1,1-Dichloroethane	2.248	2.193		2.4	30
Cis-1,2-Dichloroethene	1.822	1.745		4.2	30
Chloroform	2.279	2.166		5.0	30
1,2-Dichloroethane	1.900	1.918		-0.9	30
1,1,1-Trichloroethane	2.403	2.428		-1.0	30
Carbon Tetrachloride	2.611	2.567		1.7	30
1,2-dichloropropane	0.384	0.369		3.9	30
Bromodichloromethane	0.669	0.618		7.6	30
Trichloroethene	0.375	0.362		3.5	30
cis-1,3-Dichloropropene	0.462	0.431		6.7	30
trans-1,3-Dichloropropene	0.498	0.478		4.0	30
1,1,2-Trichloroethane	0.340	0.310		8.8	30
Dibromochloromethane	0.653	0.597		8.6	30
1,2-Dibromoethane(EDB)	0.505	0.453		10.3	30
Tetrachloroethene	0.450	0.419		6.9	30
1,1,1,2-Tetrachloroethane	0.930	0.944		-1.5	30
Chlorobenzene	1.591	1.672		-5.1	30
Bromoform	1.009	0.931		7.7	30
1,1,2,2-Tetrachloroethane	1.463	1.408		3.8	30
1,3-Dichlorobenzene	1.278	1.288		-0.8	30
1,4-Dichlorobenzene	1.103	0.956		13.3	30
1,2-Dichlorobenzene	1.215	1.235		-1.6	30
Vinyl Chloride(sim)	1.353	1.320		2.4	30
Bromomethane(sim)	0.899	0.851		5.3	30
Trichlorofluoromethane(sim)	3.097	2.766		10.7	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

Lab Name:	Phoenix Environmental Labs		Client:	ECMS	
Lab Code:	Phoenix	Case No.:		SAS No.:	SDG No.: GCH77085
Instrument:	CHEM20		Calibration Date:	03/11/21	Time: 15:09
Lab File Id:	0311_03.D		Init. Calib. Date(s):	03/08/21	03/09/21
Heated Purge (Y/N):	Y		Init. Calib. Times:	17:33	00:58
GC Column:	RTX-1 60M		Method File:	20 AIR 0308.M	

[illegible]

(*) 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:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_03.D
 Acq On : 11 Mar 2021 3:09 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 09:32:39 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 15:44:40 2021
 Response via : Initial Calibration

Note: Curves (l, lf, g, 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%
1 Int	Bromochloromethane	1.000	1.000	0.0	83
3	Dichlorodifluoromethane	2.520	2.635	-4.6	
4	Chloromethane	1.940	1.920	1.0	
6	Vinyl Chloride	1.348	1.399	-3.8	
8	Bromomethane	0.945	0.962	-1.8	
9	Chloroethane	0.642	0.617	3.9	
13	Trichlorofluoromethane	3.139	2.881	8.2	
16	1,1-Dichloroethene	2.377	2.064	13.2	
17	Methylene Chloride	2.597	2.427	6.5	
21	Trichlorotrifluoroethane	2.226	2.141	3.8	
22	Trans-1,2-Dichloroethene	1.889	1.801	4.7	
23	1,1-Dichloroethane	2.248	2.193	2.4	
27	Cis-1,2-Dichloroethene	1.822	1.745	4.2	
29	Chloroform	2.279	2.166	5.0	
32	1,2-Dichloroethane	1.900	1.918	-0.9	
33	1,1,1-Trichloroethane	2.403	2.428	-1.0	
35	Carbon Tetrachloride	2.611	2.567	1.7	
37 Int	1,4-Difluorobenzene	1.000	1.000	0.0	82
38	1,2-dichloropropane	0.384	0.369	3.9	
39	Bromodichloromethane	0.669	0.618	7.6	
40	Trichloroethene	0.375	0.362	3.5	
45	cis-1,3-Dichloropropene	0.462	0.431	6.7	
47	trans-1,3-Dichloropropene	0.498	0.478	4.0	
48	1,1,2-Trichloroethane	0.340	0.310	8.8	
50	Dibromochloromethane	0.653	0.597	8.6	
52	1,2-Dibromoethane(EDB)	0.505	0.453	10.3	
53	Tetrachloroethene	0.450	0.419	6.9	
54 Int	Chlorobenzene-d5	1.000	1.000	0.0	82
55	1,1,1,2-Tetrachloroethane	0.930	0.944	-1.5	
56	Chlorobenzene	1.591	1.672	-5.1	
59	Bromoform	1.009	0.931	7.7	
61	1,1,2,2-Tetrachloroethane	1.463	1.408	3.8	
63 Surr	% Bromofluorobenzene	1.155	1.195	-3.5	
72	1,3-Dichlorobenzene	1.278	1.288	-0.8	
73	1,4-Dichlorobenzene	1.103	0.956	13.3	
76	1,2-Dichlorobenzene	1.215	1.235	-1.6	
81 int	Bromochloromethane(sim)	1.000	1.000	0.0	81
83	Vinyl Chloride(sim)	1.353	1.320	2.4	
84	Bromomethane(sim)	0.899	0.851	5.3	
85	Trichlorofluoromethane(sim)	3.097	2.766	10.7	
86	1,2-Dichloroethane(sim)	1.682	1.697	-0.9	
87	1,1,1-Trichloroethane(sim)	2.401	2.316	3.5	
89	Carbon Tetrachloride(sim)	2.590	2.536	2.1	
90	1,1-Dichloroethene(sim)	2.233	1.826	18.2	
91	Trichlorotrifluoroethane(si	2.276	2.060	9.5	
92	Trans-1,2-Dichloroethene(si	1.587	1.593	-0.4	
93	1,1-Dichloroethane(sim)	2.262	2.112	6.6	
94	Cis-1,2-Dichloroethene(sim)	1.501	1.544	-2.9	
95	Chloroform(sim)	2.263	2.097	7.3	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_03.D
 Acq On : 11 Mar 2021 3:09 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 09:32:39 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 09 15:44:40 2021
 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%
96 int	1,4-Difluorobenzene(sim)	1.000	1.000	0.0	82
97	1,2-dichloropropane(sim)	0.456	0.398	12.7	
98	Bromodichloromethane(sim)	0.719	0.618	14.0	
99	Trichloroethene(sim)	0.454	0.421	7.3	
101	cis-1,3-Dichloropropene(sim)	0.478	0.477	0.2	
102	1,1,2-Trichloroethane(sim)	0.366	0.310	15.3	
103	Dibromochloromethane(sim)	0.744	0.664	10.8	
104	1,2-Dibromoethane(EDB)(sim)	0.488	0.453	7.2	
105	Tetrachloroethene(sim)	0.554	0.508	8.3	
106 int	Chlorobenzene-d5(sim)	1.000	1.000	0.0	82
107	Bromoform(sim)	1.223	1.053	13.9	
109	1,1,2,2-Tetrachloroethane(s	1.766	1.543	12.6	
113	1,3-Dichlorobenzene(sim)	1.320	1.397	-5.8	
114	1,4-Dichlorobenzene(sim)	0.942	0.956	-1.5	
117	1,2-Dichlorobenzene(sim)	1.319	1.375	-4.2	

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_03.D
 Acq On : 11 Mar 2021 3:09 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 09:32:39 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 15:44:40 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.712	130	253074	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.897	114	952741	10.000	ng	0.00
54) Chlorobenzene-d5	10.438	82	444820	10.000	ng	0.00
81) Bromochloromethane(sim)	6.717	130	286006	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.897	114	952547	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.438	82	444820	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.288 95 531696 10.349 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 103.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	3.489	85	66674	1.045	ppbv	98
4) Chloromethane	3.629	50	48587	0.990	ppbv	83
6) Vinyl Chloride	3.801	62	35394	1.037	ppbv	87
8) Bromomethane	4.125	94	24337	1.018	ppbv#	73
9) Chloroethane	4.265	64	15618	0.961	ppbv#	74
13) Trichlorofluoromethane	4.814	101	72909	0.918	ppbv	99
16) 1,1-Dichloroethene	5.252	61	52232	0.868	ppbv	91
17) Methylene Chloride	5.338	49	61428	0.935	ppbv	95
21) Trichlorotrifluoroethane	5.502	101	54190	0.962	ppbv	92
22) Trans-1,2-Dichloroethene	5.946	61	45571	0.953	ppbv#	82
23) 1,1-Dichloroethane	6.080	63	55492	0.975	ppbv	93
27) Cis-1,2-Dichloroethene	6.608	61	44170	0.958	ppbv	96
29) Chloroform	6.795	83	54813	0.950	ppbv#	77
32) 1,2-Dichloroethane	7.254	62	48546	1.010	ppbv#	86
33) 1,1,1-Trichloroethane	7.410	97	61457	1.011	ppbv	89
35) Carbon Tetrachloride	7.786	117	64967	0.983	ppbv	93
38) 1,2-dichloropropane	8.198	63	35170	0.961	ppbv	93
39) Bromodichloromethane	8.320	83	58847	0.923	ppbv	91
40) Trichloroethene	8.343	130	34484	0.964	ppbv#	87
45) cis-1,3-Dichloropropene	8.844	75	41042	0.933	ppbv	90
47) trans-1,3-Dichloropropene	9.150	75	45507	0.960	ppbv#	88
48) 1,1,2-Trichloroethane	9.267	97	29541	0.911	ppbv	95
50) Dibromochloromethane	9.684	129	56916	0.914	ppbv	98
52) 1,2-Dibromoethane(EDB)	9.820	107	43137	0.896	ppbv	86
53) Tetrachloroethene	10.082	166	39966	0.933	ppbv	90
55) 1,1,1,2-Tetrachloroethane	10.448	131	41991	1.015	ppbv	91
56) Chlorobenzene	10.458	112	74375	1.051	ppbv#	32
59) Bromoform	10.827	173	41421	0.923	ppbv	93
61) 1,1,2,2-Tetrachloroethane	11.022	83	62643	0.962	ppbv#	83
72) 1,3-Dichlorobenzene	12.140	146	57300	1.008	ppbv#	89
73) 1,4-Dichlorobenzene	12.171	146	42538	0.867	ppbv#	85
76) 1,2-Dichlorobenzene	12.396	146	54917	1.016	ppbv	89
83) Vinyl Chloride(sim)	3.807	62	37743	0.975	ppbv	100
84) Bromomethane(sim)	4.125	94	24337	0.946	ppbv#	73
85) Trichlorofluoromethane...	4.820	101	79097	0.893	ppbv#	98
86) 1,2-Dichloroethane(sim)	7.254	62	48546	1.009	ppbv#	86
87) 1,1,1-Trichloroethane(...)	7.415	97	66252	0.965	ppbv#	100
89) Carbon Tetrachloride(sim)	7.791	117	72537	0.979	ppbv	98
90) 1,1-Dichloroethene(sim)	5.252	61	52232	0.818	ppbv	91
91) Trichlorotrifluoroetha...	5.508	101	58911	0.905	ppbv#	99
92) Trans-1,2-Dichloroethe...	5.946	61	45571	1.004	ppbv#	82
93) 1,1-Dichloroethane(sim)	6.086	63	60400	0.933	ppbv	99
94) Cis-1,2-Dichloroethene...	6.608	61	44170	1.029	ppbv	96
95) Chloroform(sim)	6.790	83	59988	0.927	ppbv#	84

Data Path : H:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_03.D
 Acq On : 11 Mar 2021 3:09 pm
 Operator :
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1.0ppb cc - 1.0ppb cc
 ALS Vial : 2 Sample Multiplier: 1

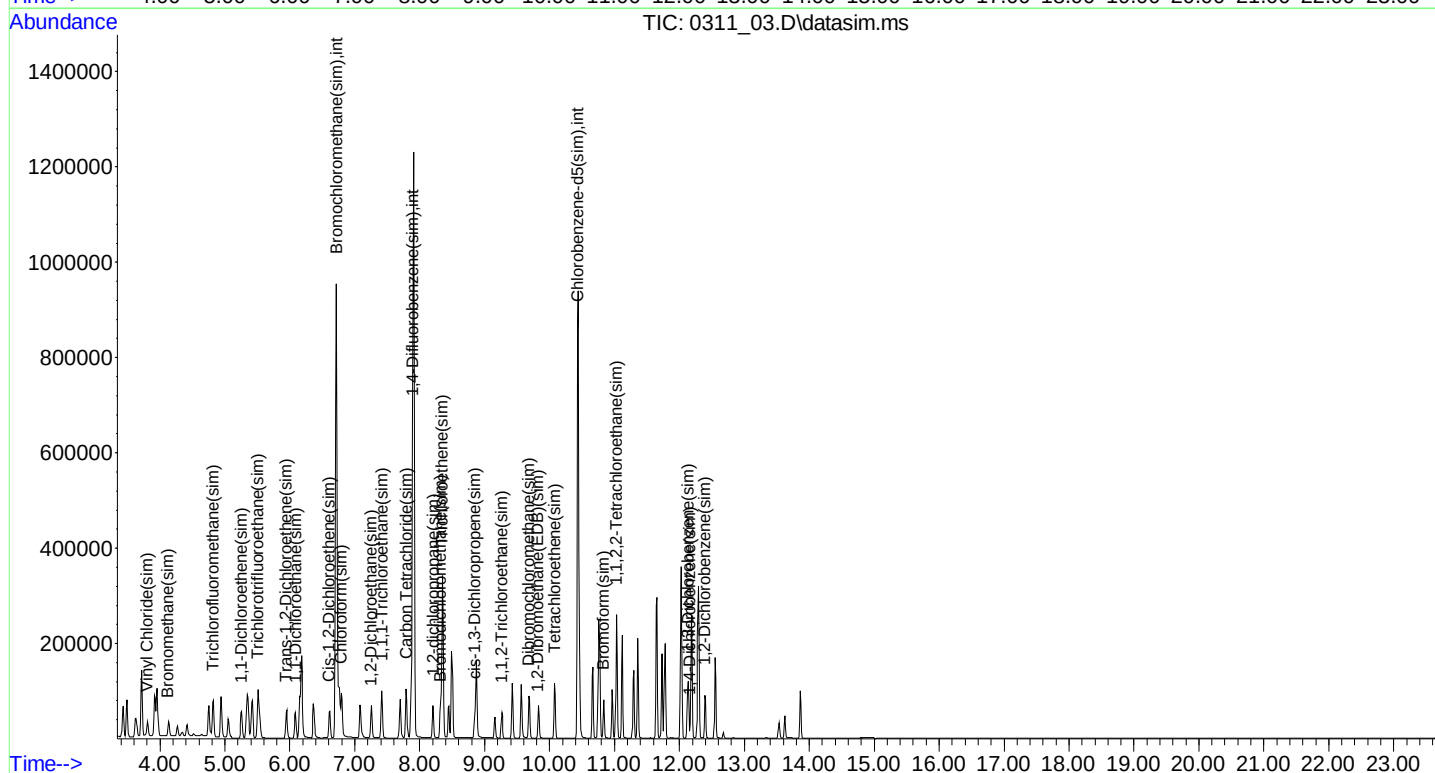
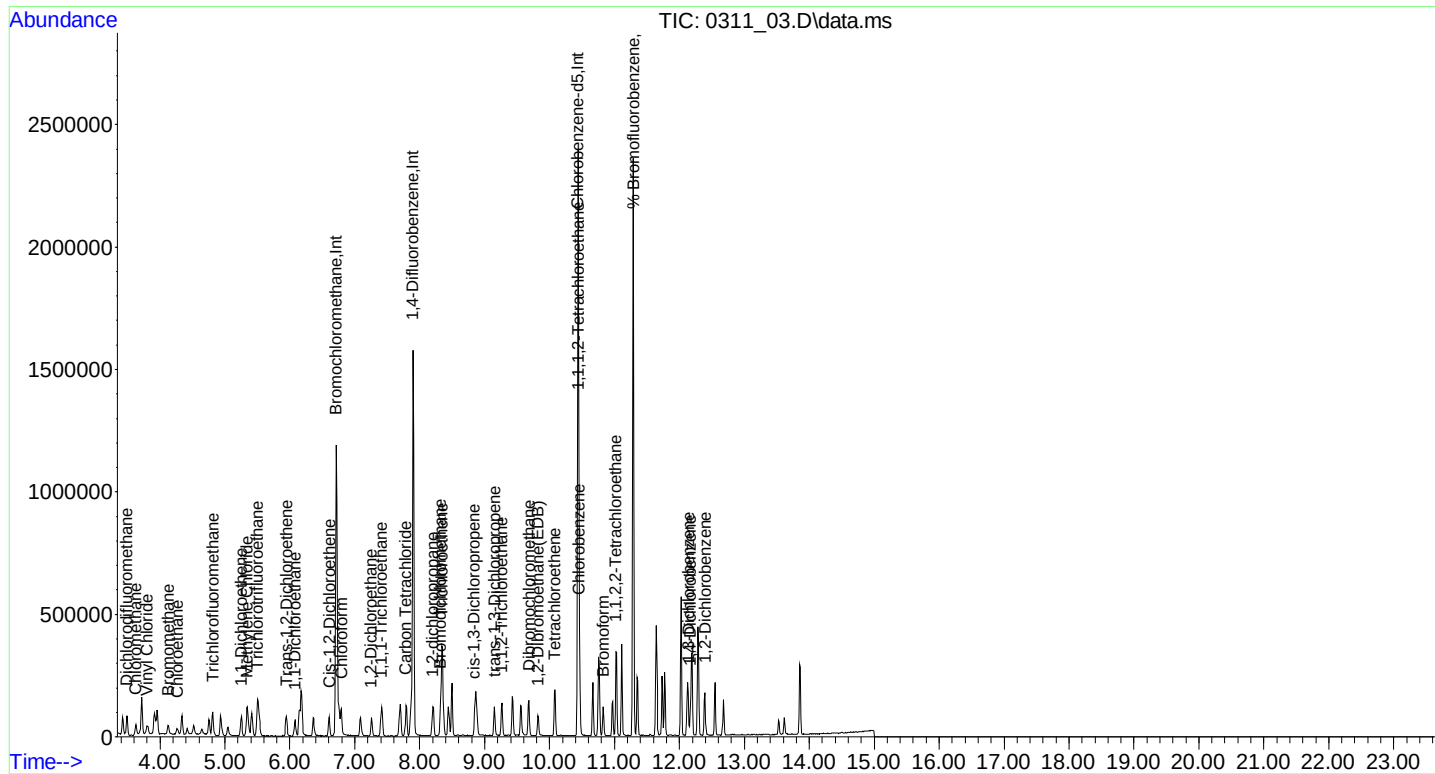
Quant Time: Mar 12 09:32:39 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 15:44:40 2021
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.204	63	37912	0.872	ppbv	95
98]	Bromodichloromethane(sim)	8.320	83	58847	0.860	ppbv	91
99]	Trichloroethene(sim)	8.348	130	40077	0.926	ppbv	99
101]	cis-1,3-Dichloropropen...	8.850	75	45458	0.999	ppbv	99
102]	1,1,2-Trichloroethane(...	9.267	97	29541	0.848	ppbv	94
103]	Dibromochloromethane(sim)	9.680	129	63239	0.893	ppbv	98
104]	1,2-Dibromoethane(EDB)...	9.820	107	43137	0.927	ppbv	86
105]	Tetrachloroethene(sim)	10.078	166	48428	0.918	ppbv	99
107]	Bromoform(sim)	10.833	173	46820	0.861	ppbv	98
109]	1,1,2,2-Tetrachloroeth...	11.027	83	68641	0.874	ppbv	99
113]	1,3-Dichlorobenzene(sim)	12.135	146	62138	1.058	ppbv	97
114]	1,4-Dichlorobenzene(sim)	12.171	146	42538	1.016	ppbv	85
117]	1,2-Dichlorobenzene(sim)	12.392	146	61181	1.043	ppbv	95

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

Data Path : H:\AIR2021\CHEM20\03MAR\11\
Data File : 0311_03.D
Acq On : 11 Mar 2021 3:09 pm
Operator :
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 09:32:39 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 09 15:44:40 2021
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: ECMS

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCH77085

Instrument: CHEM24 Calibration Date: 03/12/21 Time: 10:50

Lab File Id: 0312_02.D Init. Calib. Date(s): 03/10/21 03/10/21

Heated Purge (Y/N): Y Init. Calib. Times: 11:22 17:26

GC Column: RTX-VMS Method File: 24AIR_0310.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Dichlorodifluoromethane	1.826	1.452		20.5	30
Chloromethane	1.381	1.464		-6.0	30
Vinyl Chloride	0.840	0.834		0.7	30
Bromomethane	0.816	0.766		6.1	30
Chloroethane	0.331	0.320		3.3	30
Trichlorofluoromethane	2.564	2.554		0.4	30
1,1-Dichloroethene	1.540	1.496		2.9	30
Methylene Chloride	1.590	1.439		9.5	30
Trichlorotrifluoroethane	1.809	1.711		5.4	30
Trans-1,2-Dichloroethene	1.344	1.325		1.4	30
1,1-Dichloroethane	1.593	1.590		0.2	30
Cis-1,2-Dichloroethene	1.441	1.474		-2.3	30
Chloroform	1.901	1.914		-0.7	30
1,2-Dichloroethane	1.503	1.484		1.3	30
1,1,1-Trichloroethane	2.083	2.036		2.3	30
Carbon Tetrachloride	2.388	2.314		3.1	30
1,2-dichloropropane	0.316	0.304		3.8	30
Bromodichloromethane	0.668	0.656		1.8	30
Trichloroethene	0.402	0.390		3.0	30
cis-1,3-Dichloropropene	0.416	0.405		2.6	30
trans-1,3-Dichloropropene	0.417	0.412		1.2	30
1,1,2-Trichloroethane	0.357	0.341		4.5	30
Dibromochloromethane	0.835	0.780		6.6	30
1,2-Dibromoethane(EDB)	0.624	0.608		2.6	30
Tetrachloroethene	0.488	0.465		4.7	30
1,1,1,2-Tetrachloroethane	1.126	1.101		2.2	30
Chlorobenzene	1.717	1.712		0.3	30
Bromoform	1.531	1.264		17.4	30
1,1,2,2-Tetrachloroethane	1.644	1.605		2.4	30
1,3-Dichlorobenzene	1.586	1.540		2.9	30
1,4-Dichlorobenzene	1.484	1.422		4.2	30
1,2-Dichlorobenzene	1.266	1.268		-0.2	30
Vinyl Chloride(sim)	0.915	0.866		5.4	30
Bromomethane(sim)	0.909	0.745		18.0	30
Trichlorofluoromethane(sim)	2.844	2.572		9.6	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

Lab Name:	Phoenix Environmental Labs		Client:	ECMS	
Lab Code:	Phoenix	Case No.:		SAS No.:	SDG No.: GCH77085
Instrument:	CHEM24		Calibration Date:	03/12/21	Time: 10:50
Lab File Id:	0312_02.D		Init. Calib. Date(s):	03/10/21	03/10/21
Heated Purge (Y/N):	Y		Init. Calib. Times:	11:22	17:26
GC Column:	RTX-VMS		Method File:	24AIR_0310.M	

[illegible]

(*) 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:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_02.D
 Acq On : 12 Mar 2021 10:50 am
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 14:59:28 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration

Note: Curves (l, lf, g, 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%
1 Int	Bromochloromethane	1.000	1.000	0.0	88
3	Dichlorodifluoromethane	1.826	1.452	20.5	
4	Chloromethane	1.381	1.464	-6.0	
6	Vinyl Chloride	0.840	0.834	0.7	
8	Bromomethane	0.816	0.766	6.1	
9	Chloroethane	0.331	0.320	3.3	
13	Trichlorofluoromethane	2.564	2.554	0.4	
16	1,1-Dichloroethene	1.540	1.496	2.9	
17	Methylene Chloride	1.590	1.439	9.5	
21	Trichlorotrifluoroethane	1.809	1.711	5.4	
22	Trans-1,2-Dichloroethene	1.344	1.325	1.4	
23	1,1-Dichloroethane	1.593	1.590	0.2	
26	Cis-1,2-Dichloroethene	1.441	1.474	-2.3	
28	Chloroform	1.901	1.914	-0.7	
31	1,2-Dichloroethane	1.503	1.484	1.3	
32	1,1,1-Trichloroethane	2.083	2.036	2.3	
34	Carbon Tetrachloride	2.388	2.314	3.1	
36 Int	1,4-Difluorobenzene	1.000	1.000	0.0	88
37	1,2-dichloropropane	0.316	0.304	3.8	
38	Bromodichloromethane	0.668	0.656	1.8	
39	Trichloroethene	0.402	0.390	3.0	
44	cis-1,3-Dichloropropene	0.416	0.405	2.6	
46	trans-1,3-Dichloropropene	0.417	0.412	1.2	
47	1,1,2-Trichloroethane	0.357	0.341	4.5	
49	Dibromochloromethane	0.835	0.780	6.6	
51	1,2-Dibromoethane(EDB)	0.624	0.608	2.6	
52	Tetrachloroethene	0.488	0.465	4.7	
53 Int	Chlorobenzene-d5	1.000	1.000	0.0	87
54	1,1,1,2-Tetrachloroethane	1.126	1.101	2.2	
55	Chlorobenzene	1.717	1.712	0.3	
58	Bromoform	1.531	1.264	17.4	
60	1,1,2,2-Tetrachloroethane	1.644	1.605	2.4	
62 Surr	% Bromofluorobenzene	1.387	1.379	0.6	
71	1,3-Dichlorobenzene	1.586	1.540	2.9	
72	1,4-Dichlorobenzene	1.484	1.422	4.2	
75	1,2-Dichlorobenzene	1.266	1.268	-0.2	
80 int	Bromochloromethane(sim)	1.000	1.000	0.0	88
82	Vinyl Chloride(sim)	0.915	0.866	5.4	
83	Bromomethane(sim)	0.909	0.745	18.0	
84	Trichlorofluoromethane(sim)	2.844	2.572	9.6	
85	1,1,1-Trichloroethane(sim)	2.108	1.980	6.1	
87	Carbon Tetrachloride(sim)	2.432	2.251	7.4	
88	1,1-Dichloroethene(sim)	1.726	1.587	8.1	
89	Trichlorotrifluoroethane(si	1.886	1.662	11.9	
90	Trans-1,2-Dichloroethene(si	1.489	1.414	5.0	
91	1,1-Dichloroethane(sim)	1.713	1.547	9.7	
92	Cis-1,2-Dichloroethene(sim)	1.511	1.500	0.7	
93	Chloroform(sim)	1.977	1.859	6.0	
94	1,2-Dichloroethane(sim)	1.678	1.568	6.6	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_02.D
 Acq On : 12 Mar 2021 10:50 am
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 14:59:28 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:34:44 2021
 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%
95 int	1,4-Difluorobenzene(sim)	1.000	1.000	0.0	88
96	1,2-dichloropropane(sim)	0.365	0.336	7.9	
97	Bromodichloromethane(sim)	0.698	0.656	6.0	
98	Trichloroethene(sim)	0.449	0.417	7.1	
100	cis-1,3-Dichloropropene(sim)	0.441	0.442	-0.2	
101	1,1,2-Trichloroethane(sim)	0.373	0.341	8.6	
102	Dibromochloromethane(sim)	0.880	0.784	10.9	
103	1,2-Dibromoethane(EDB)(sim)	0.635	0.608	4.3	
104	Tetrachloroethene(sim)	0.523	0.487	6.9	
105 int	Chlorobenzene-d5(sim)	1.000	1.000	0.0	87
106	Bromoform(sim)	1.571	1.280	18.5	
107	1,1,1,2-Tetrachloroethane(s	1.170	1.099	6.1	
111	1,1,2,2-Tetrachloroethane(s	1.730	1.605	7.2	
115	1,3-Dichlorobenzene(sim)	1.619	1.540	4.9	
116	1,4-Dichlorobenzene(sim)	1.620	1.595	1.5	
119	1,2-Dichlorobenzene(sim)	1.252	1.268	-1.3	

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_02.D
 Acq On : 12 Mar 2021 10:50 am
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 14:59:28 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.286	130	236651	10.000	ng	0.02
36) 1,4-Difluorobenzene	7.232	114	743938	10.000	ng	0.00
53) Chlorobenzene-d5	10.830	82	336594	10.000	ng	0.01
80) Bromochloromethane(sim)	5.289	130	243341	10.000	ng	# 0.02
95) 1,4-Difluorobenzene(sim)	7.232	114	743938	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.830	82	336594	10.000	ng	0.01

System Monitoring Compounds						
62) % Bromofluorobenzene	12.303	95	464090	9.941	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.40%

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.506	85	34351	0.795	ppbv	99
4) Chloromethane	1.636	50	34639	1.060	ppbv	95
6) Vinyl Chloride	1.711	62	19735	0.992	ppbv	97
8) Bromomethane	1.951	94	18122	0.938	ppbv	97
9) Chloroethane	2.054	64	7564	0.965	ppbv	95
13) Trichlorofluoromethane	2.184	101	60447	0.996	ppbv	99
16) 1,1-Dichloroethene	2.615	61	35399	0.971	ppbv	99
17) Methylene Chloride	3.183	49	34056	0.905	ppbv	99
21) Trichlorotrifluoroethane	2.677	101	40501	0.946	ppbv	98
22) Trans-1,2-Dichloroethene	3.374	61	31366	0.986	ppbv	98
23) 1,1-Dichloroethane	4.131	63	37637	0.999	ppbv	99
26) Cis-1,2-Dichloroethene	4.972	61	34881	1.023	ppbv	98
28) Chloroform	5.481	83	45303	1.007	ppbv	98
31) 1,2-Dichloroethane	6.581	62	35113	0.987	ppbv	99
32) 1,1,1-Trichloroethane	5.748	97	48183	0.977	ppbv	98
34) Carbon Tetrachloride	5.654	117	54766	0.969	ppbv	99
37) 1,2-dichloropropane	7.807	63	22620	0.963	ppbv	90
38) Bromodichloromethane	7.957	83	48795	0.983	ppbv	99
39) Trichloroethene	7.170	130	28988	0.970	ppbv	98
44) cis-1,3-Dichloropropene	8.751	75	30104	0.972	ppbv	98
46) trans-1,3-Dichloropropene	9.574	75	30657	0.989	ppbv	99
47) 1,1,2-Trichloroethane	9.747	97	25386	0.955	ppbv	99
49) Dibromochloromethane	9.949	129	58055	0.934	ppbv	99
51) 1,2-Dibromoethane(EDB)	10.173	107	45215	0.974	ppbv	98
52) Tetrachloroethene	9.523	166	34572	0.953	ppbv	97
54) 1,1,1,2-Tetrachloroethane	10.953	131	37045	0.978	ppbv	99
55) Chlorobenzene	10.850	112	57630	0.997	ppbv	92
58) Bromoform	11.660	173	42558	0.826	ppbv	99
60) 1,1,2,2-Tetrachloroethane	12.595	83	54018	0.976	ppbv	98
71) 1,3-Dichlorobenzene	13.549	146	51849	0.971	ppbv	99
72) 1,4-Dichlorobenzene	13.646	146	47876	0.958	ppbv	99
75) 1,2-Dichlorobenzene	14.036	146	42694	1.002	ppbv	99
82) Vinyl Chloride(sim)	1.707	62	21070	0.946	ppbv	100
83) Bromomethane(sim)	1.951	94	18122	0.819	ppbv	98
84) Trichlorofluoromethane...	2.180	101	62583	0.904	ppbv	100
85) 1,1,1-Trichloroethane(...)	5.748	97	48183	0.939	ppbv#	98
87) Carbon Tetrachloride(sim)	5.654	117	54766	0.925	ppbv	99
88) 1,1-Dichloroethene(sim)	2.611	61	38618	0.919	ppbv	100
89) Trichlorotrifluoroetha...	2.677	101	40443	0.881	ppbv	98
90) Trans-1,2-Dichloroethe...	3.377	61	34404	0.950	ppbv	99
91) 1,1-Dichloroethane(sim)	4.131	63	37637	0.903	ppbv	99
92) Cis-1,2-Dichloroethene...	4.975	61	36502	0.993	ppbv	98
93) Chloroform(sim)	5.481	83	45241	0.941	ppbv	98
94) 1,2-Dichloroethane(sim)	6.577	62	38158	0.934	ppbv	100

Data Path : H:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_02.D
 Acq On : 12 Mar 2021 10:50 am
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 14:59:28 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration

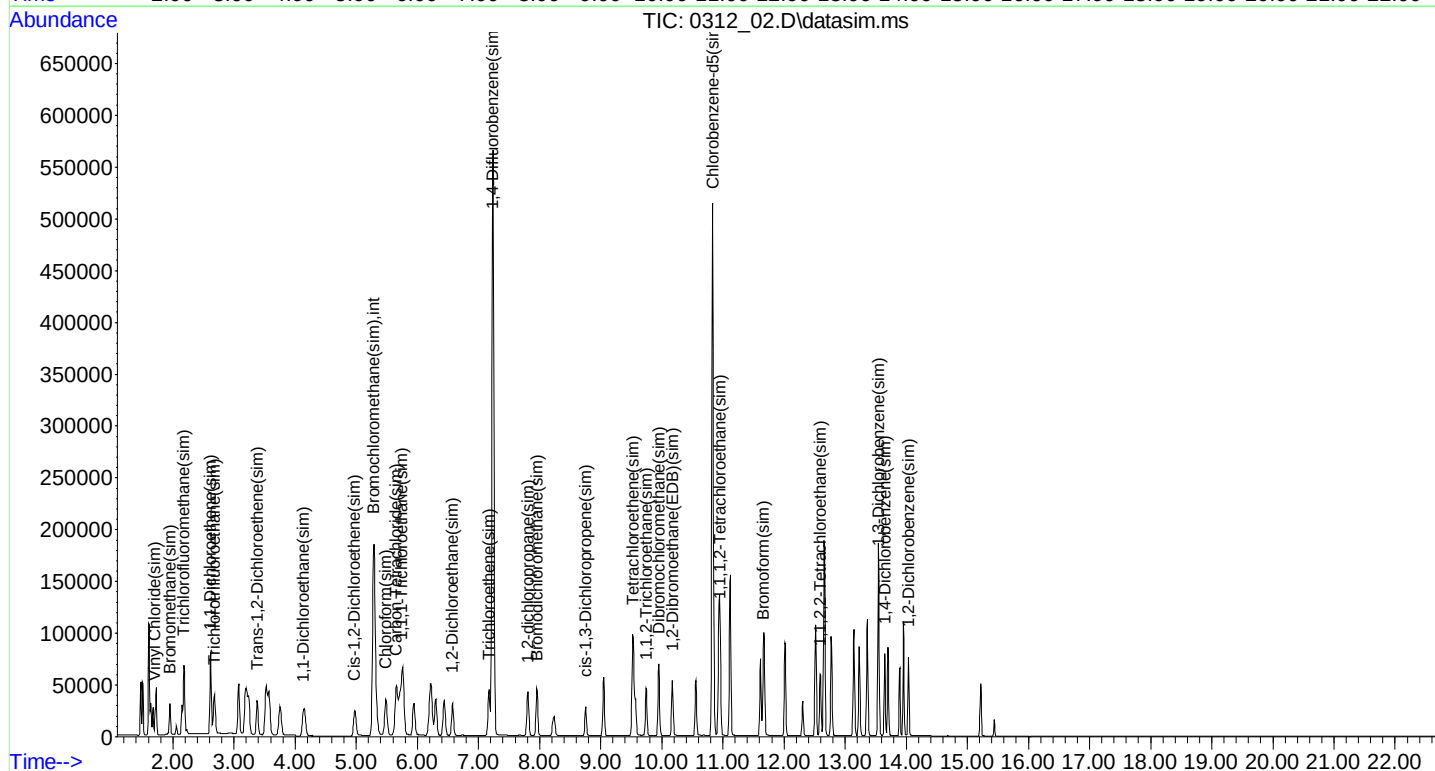
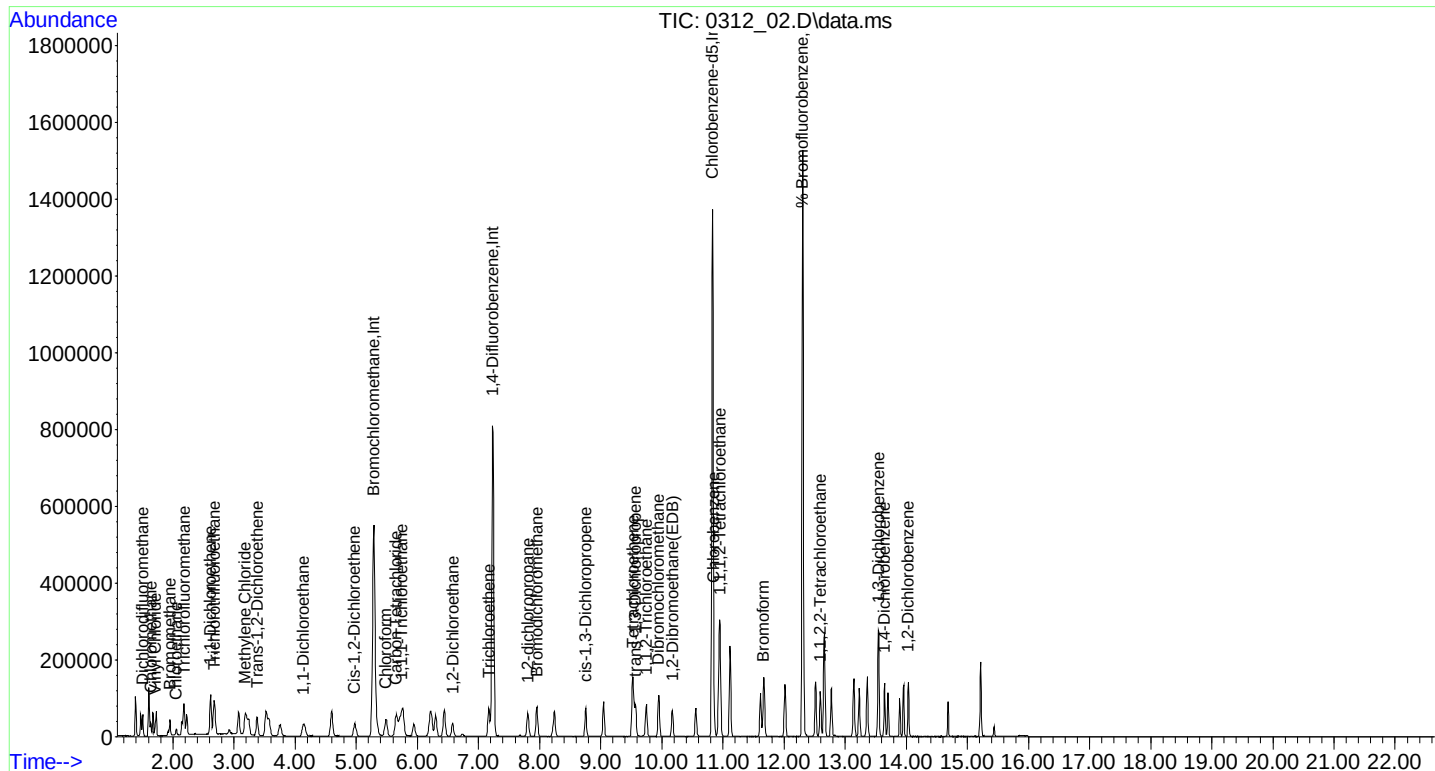
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.810	63	24985	0.921	ppbv	96
97]	Bromodichloromethane(sim)	7.957	83	48795	0.939	ppbv	99
98]	Trichloroethene(sim)	7.173	130	31005	0.928	ppbv	100
100]	cis-1,3-Dichloropropen...	8.753	75	32906	1.004	ppbv	100
101]	1,1,2-Trichloroethane(...	9.747	97	25386	0.915	ppbv	99
102]	Dibromochloromethane(sim)	9.952	129	58341	0.891	ppbv	100
103]	1,2-Dibromoethane(EDB)...	10.173	107	45263	0.958	ppbv	98
104]	Tetrachloroethene(sim)	9.526	166	36246	0.932	ppbv	99
106]	Bromoform(sim)	11.663	173	43078	0.815	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.953	131	36990	0.939	ppbv	99
111]	1,1,2,2-Tetrachloroeth...	12.595	83	54018	0.928	ppbv	98
115]	1,3-Dichlorobenzene(sim)	13.549	146	51849	0.951	ppbv	99
116]	1,4-Dichlorobenzene(sim)	13.649	146	53701	0.985	ppbv	100
119]	1,2-Dichlorobenzene(sim)	14.036	146	42694	1.013	ppbv	99

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_02.D
 Acq On : 12 Mar 2021 10:50 am
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 12 14:59:28 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: ECMS Lab: Phoenix Env. Labs

SDG No.: GCH77085 Lab Sample ID: CH77086 LCS

Canister: LCS Lab File ID: 0312_04.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 03/11/21

Purge Volume 200 (cc) Date Analyzed: 03/12/21

Matrix: AIR Dilution Factor: 1

CH77086 LCS

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	7.56		0.200	0.200	r
74-87-3	Chloromethane	10.8		0.200	0.200	r
75-01-4	Vinyl Chloride	10.8		0.100	0.100	r
74-83-9	Bromomethane	10.1		0.150	0.150	r
75-00-3	Chloroethane	10.2		0.200	0.200	r
75-69-4	Trichlorofluoromethane	10.4		0.200	0.200	r
75-35-4	1,1-Dichloroethene	10.4		0.200	0.200	r
75-09-2	Methylene Chloride	9.10		0.500	0.500	r
76-13-1	Trichlorotrifluoroethane	10.2		0.200	0.200	r
156-60-5	Trans-1,2-Dichloroethene	10.6		0.200	0.200	r
75-34-3	1,1-Dichloroethane	10.4		0.200	0.200	r
156-59-2	Cis-1,2-Dichloroethene	10.4		0.200	0.200	r
67-66-3	Chloroform	10.2		0.200	0.200	r
107-06-2	1,2-Dichloroethane	10.4		0.022	0.022	r
71-55-6	1,1,1-Trichloroethane	10.4		0.500	0.500	r
56-23-5	Carbon Tetrachloride	10.4		0.086	0.086	r
78-87-5	1,2-dichloropropane	10.5		0.027	0.027	r
75-27-4	Bromodichloromethane	10.5		0.020	0.020	r
79-01-6	Trichloroethene	10.9		0.075	0.075	r
10061-01-5	cis-1,3-Dichloropropene	11.4		0.200	0.200	r
10061-02-6	trans-1,3-Dichloropropene	10.8		0.200	0.200	r
79-00-5	1,1,2-Trichloroethane	10.3		0.027	0.027	r
124-48-1	Dibromochloromethane	10.8		0.020	0.020	r
106-93-4	1,2-Dibromoethane(EDB)	10.6		0.020	0.020	r
127-18-4	Tetrachloroethene	10.3		0.200	0.200	r
630-20-6	1,1,1,2-Tetrachloroethane	10.3		0.500	0.500	r
108-90-7	Chlorobenzene	10.4		0.200	0.200	r
75-25-2	Bromoform	11.9		0.200	0.200	r
79-34-5	1,1,2,2-Tetrachloroethane	10.1		0.020	0.020	r
541-73-1	1,3-Dichlorobenzene	10.7		0.100	0.100	r
106-46-7	1,4-Dichlorobenzene	11.2		0.080	0.080	r
95-50-1	1,2-Dichlorobenzene	10.9		0.100	0.100	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:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_04.D
 Acq On : 12 Mar 2021 11:54 am
 Operator : Keith
 Client ID : CH77086 LCS
 Lab ID : CH77086 LCS
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 14:59:43 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.293	130	243082	10.000	ng	0.03
36) 1,4-Difluorobenzene	7.238	114	760441	10.000	ng	0.01
53) Chlorobenzene-d5	10.829	82	346203	10.000	ng	0.01
80) Bromochloromethane(sim)	5.296	130	248546	10.000	ng	# 0.03
95) 1,4-Difluorobenzene(sim)	7.238	114	760441	10.000	ng	0.01
105) Chlorobenzene-d5(sim)	10.829	82	346203	10.000	ng	0.01

System Monitoring Compounds						
62) % Bromofluorobenzene	12.309	95	488434	10.172	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.70%

Target Compounds				Qvalue		
3) Dichlorodifluoromethane	1.506	85	335375	7.555	ppbv	100
4) Chloromethane	1.636	50	363520	10.829	ppbv	95
6) Vinyl Chloride	1.711	62	220990	10.819	ppbv	99
8) Bromomethane	1.951	94	199543	10.054	ppbv	99
9) Chloroethane	2.054	64	82384	10.230	ppbv	97
13) Trichlorofluoromethane	2.184	101	646189	10.368	ppbv	100
16) 1,1-Dichloroethene	2.615	61	390218	10.422	ppbv	100
17) Methylene Chloride	3.183	49	351870	9.104	ppbv	98
21) Trichlorotrifluoroethane	2.677	101	449028	10.213	ppbv	100
22) Trans-1,2-Dichloroethene	3.381	61	344730	10.551	ppbv	98
23) 1,1-Dichloroethane	4.136	63	401217	10.363	ppbv	100
26) Cis-1,2-Dichloroethene	4.982	61	364009	10.395	ppbv	98
28) Chloroform	5.488	83	471803	10.209	ppbv	99
31) 1,2-Dichloroethane	6.581	62	377910	10.347	ppbv	99
32) 1,1,1-Trichloroethane	5.748	97	526866	10.404	ppbv	99
34) Carbon Tetrachloride	5.661	117	602869	10.387	ppbv	100
37) 1,2-dichloropropane	7.807	63	251128	10.459	ppbv	100
38) Bromodichloromethane	7.957	83	533198	10.504	ppbv	99
39) Trichloroethene	7.177	130	332019	10.864	ppbv	100
44) cis-1,3-Dichloropropene	8.757	75	361568	11.419	ppbv	100
46) trans-1,3-Dichloropropene	9.573	75	342079	10.791	ppbv	100
47) 1,1,2-Trichloroethane	9.746	97	278287	10.245	ppbv	99
49) Dibromochloromethane	9.948	129	687459	10.825	ppbv	99
51) 1,2-Dibromoethane(EDB)	10.172	107	502873	10.593	ppbv	99
52) Tetrachloroethene	9.523	166	381915	10.298	ppbv	99
54) 1,1,1,2-Tetrachloroethane	10.953	131	400365	10.274	ppbv	100
55) Chlorobenzene	10.850	112	617991	10.396	ppbv	99
58) Bromoform	11.666	173	632078	11.925	ppbv	99
60) 1,1,2,2-Tetrachloroethane	12.595	83	576574	10.131	ppbv	99
71) 1,3-Dichlorobenzene	13.548	146	586843	10.685	ppbv	99
72) 1,4-Dichlorobenzene	13.646	146	576124	11.213	ppbv	100
75) 1,2-Dichlorobenzene	14.035	146	475811	10.858	ppbv	99
82) Vinyl Chloride(sim)	1.707	62	239594	10.538	ppbv	100
83) Bromomethane(sim)	1.951	94	199594	8.831	ppbv	99
84) Trichlorofluoromethane...	2.187	101	671052	9.495	ppbv	100
85) 1,1,1-Trichloroethane(...)	5.748	97	527019	10.058	ppbv#	99
87) Carbon Tetrachloride(sim)	5.661	117	602853	9.972	ppbv	100
88) 1,1-Dichloroethene(sim)	2.618	61	418542	9.756	ppbv	100
89) Trichlorotrifluoroetha...	2.677	101	448792	9.572	ppbv	99
90) Trans-1,2-Dichloroethe...	3.377	61	370581	10.016	ppbv	100
91) 1,1-Dichloroethane(sim)	4.136	63	401217	9.423	ppbv	100
92) Cis-1,2-Dichloroethene...	4.980	61	413925	11.022	ppbv	97
93) Chloroform(sim)	5.488	83	471803	9.603	ppbv	99
94) 1,2-Dichloroethane(sim)	6.577	62	409366	9.813	ppbv	100

Data Path : H:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_04.D
 Acq On : 12 Mar 2021 11:54 am
 Operator : Keith
 Client ID : CH77086 LCS
 Lab ID : CH77086 LCS
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 14:59:43 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration

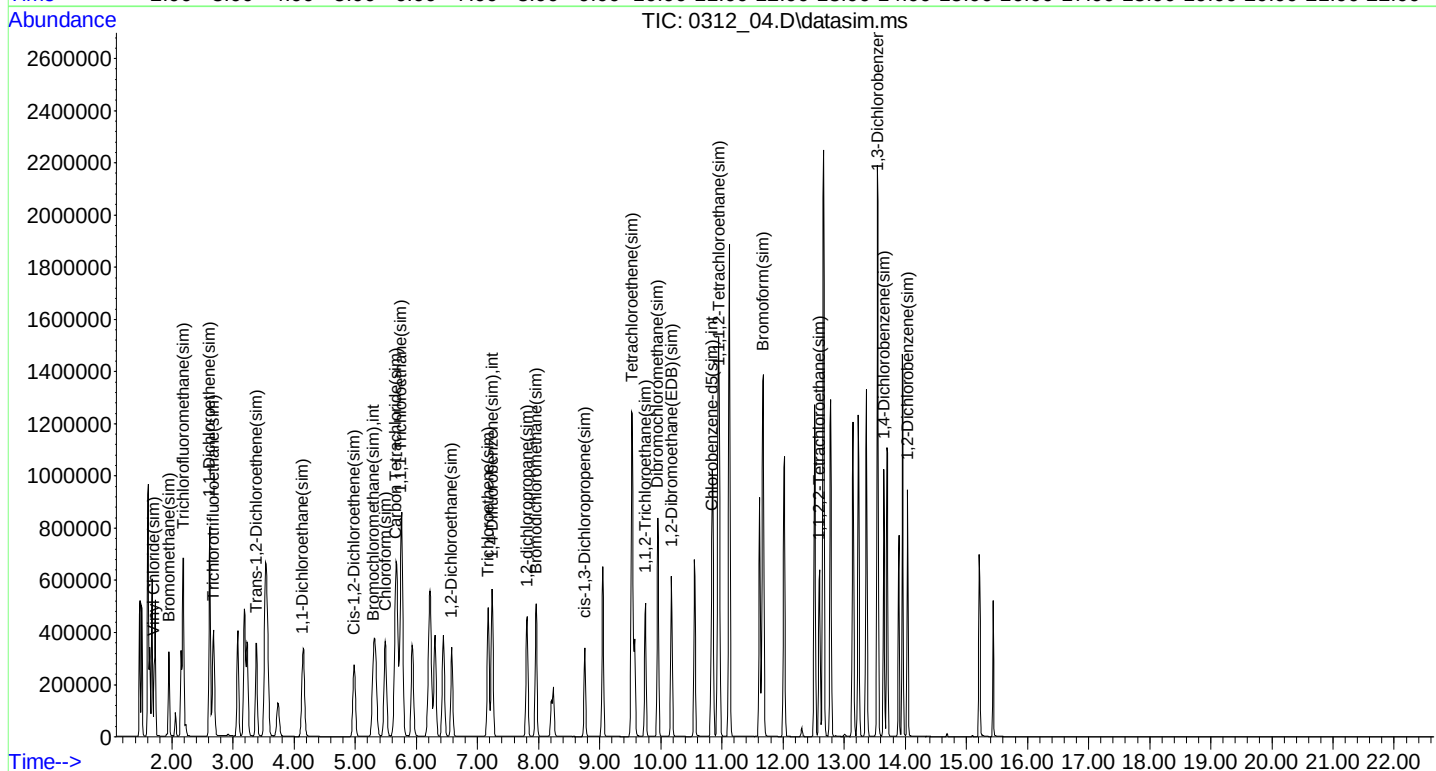
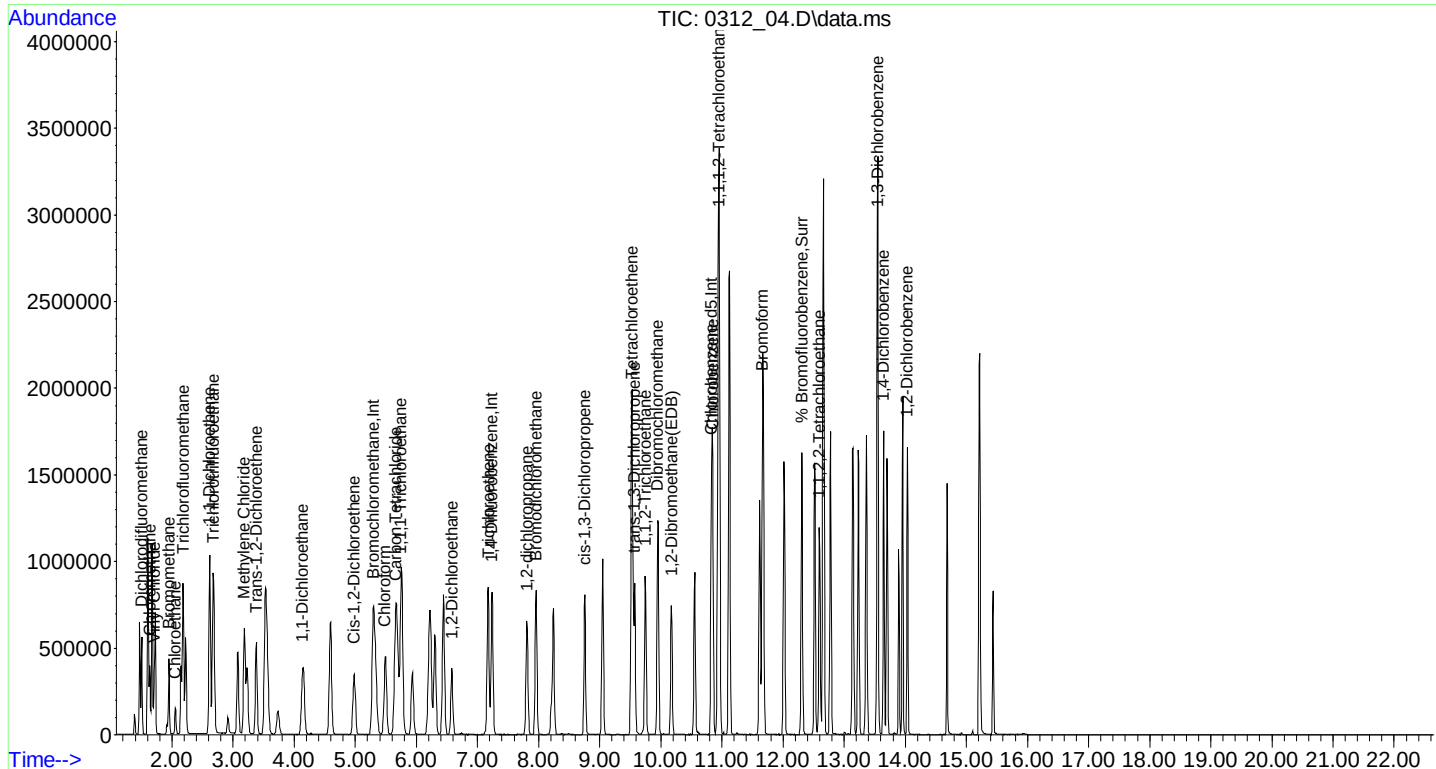
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
96]	1,2-dichloropropane(sim)	7.810	63	271129	9.779	ppbv	99
97]	Bromodichloromethane(sim)	7.957	83	533198	10.041	ppbv	99
98]	Trichloroethene(sim)	7.173	130	349573	10.237	ppbv	100
100]	cis-1,3-Dichloropropen...	8.753	75	396333	11.827	ppbv	100
101]	1,1,2-Trichloroethane(...	9.746	97	278287	9.817	ppbv	99
102]	Dibromochloromethane(sim)	9.951	129	700309	10.468	ppbv	100
103]	1,2-Dibromoethane(EDB)...	10.172	107	502801	10.416	ppbv	100
104]	Tetrachloroethene(sim)	9.525	166	397081	9.985	ppbv	100
106]	Bromoform(sim)	11.669	173	620826	11.413	ppbv	100
107]	1,1,1,2-Tetrachloroeth...	10.953	131	400365	9.886	ppbv	100
111]	1,1,2,2-Tetrachloroeth...	12.595	83	576574	9.627	ppbv	99
115]	1,3-Dichlorobenzene(sim)	13.548	146	586843	10.469	ppbv	99
116]	1,4-Dichlorobenzene(sim)	13.649	146	641435	11.440	ppbv	100
119]	1,2-Dichlorobenzene(sim)	14.035	146	475811	10.975	ppbv	99

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_04.D
 Acq On : 12 Mar 2021 11:54 am
 Operator : Keith
 Client ID : CH77086 LCS
 Lab ID : CH77086 LCS
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 14:59:43 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: ECMS Lab: Phoenix Env. Labs

SDG No.: GCH77085 Lab Sample ID: CH77086 BL

Canister: BL Lab File ID: 0312_06.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 03/11/21

Purge Volume 200 (cc) Date Analyzed: 03/12/21

Matrix: AIR Dilution Factor: 1

CH77086 BLANK

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
74-87-3	Chloromethane	0.200	U	0.200	0.200	r
75-00-3	Chloroethane	0.200	U	0.200	0.200	r
75-09-2	Methylene Chloride	0.500	U	0.500	0.500	r
10061-02-6	trans-1,3-Dichloropropene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
75-01-4	Vinyl Chloride(sim)	0.100	U	0.100	0.100	r
74-83-9	Bromomethane(sim)	0.150	U	0.150	0.150	r
75-69-4	Trichlorofluoromethane(sim)	0.200	U	0.200	0.200	r
71-55-6	1,1,1-Trichloroethane(sim)	0.200	U	0.500	0.200	r
56-23-5	Carbon Tetrachloride(sim)	0.086	U	0.086	0.086	r
75-35-4	1,1-Dichloroethene(sim)	0.200	U	0.200	0.200	r
76-13-1	Trichlorotrifluoroethane(sim)	0.200	U	0.200	0.200	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
75-34-3	1,1-Dichloroethane(sim)	0.200	U	0.200	0.200	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
107-06-2	1,2-Dichloroethane(sim)	0.022	U	0.022	0.022	r
78-87-5	1,2-dichloropropane(sim)	0.027	U	0.027	0.027	r
75-27-4	Bromodichloromethane(sim)	0.020	U	0.020	0.020	r
79-01-6	Trichloroethene(sim)	0.075	U	0.075	0.075	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.200	U	0.200	0.200	r
79-00-5	1,1,2-Trichloroethane(sim)	0.027	U	0.027	0.027	r
124-48-1	Dibromochloromethane(sim)	0.020	U	0.020	0.020	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.020	U	0.020	0.020	r
127-18-4	Tetrachloroethene(sim)	0.200	U	0.200	0.200	r
75-25-2	Bromoform(sim)	0.200	U	0.200	0.200	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.200	U	0.500	0.200	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.020	U	0.020	0.020	r
541-73-1	1,3-Dichlorobenzene(sim)	0.100	U	0.100	0.100	r
106-46-7	1,4-Dichlorobenzene(sim)	0.080	U	0.080	0.080	r
95-50-1	1,2-Dichlorobenzene(sim)	0.100	U	0.100	0.100	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:\AIR2021\CHEM24\03MAR\12\
Data File : 0312_06.D
Acq On : 12 Mar 2021 12:49 pm
Operator : Keith
Client ID : CH77086 BLANK
Lab ID : CH77086 BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 15:01:04 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration

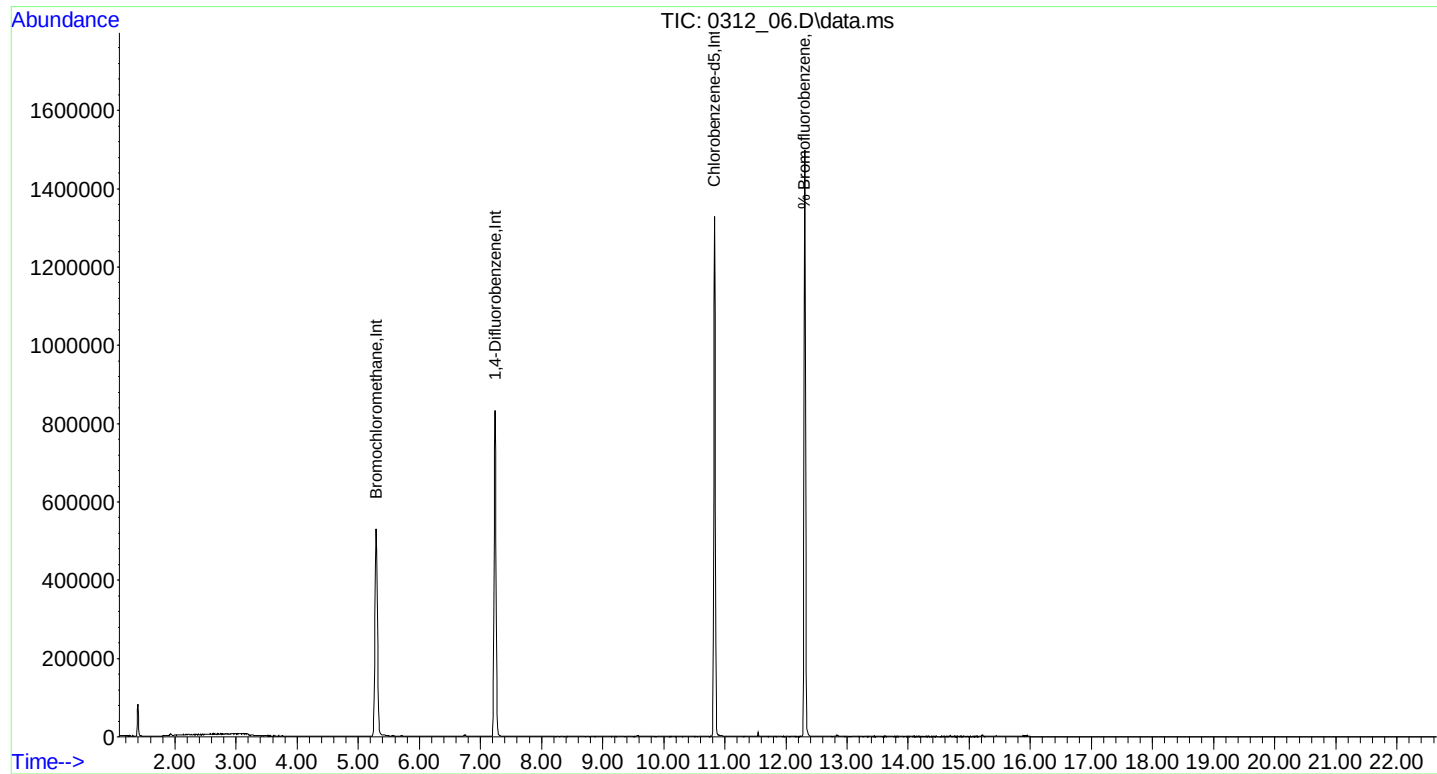
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.296	130	238884	10.000	ng	0.03
36) 1,4-Difluorobenzene	7.240	114	743930	10.000	ng	0.02
53) Chlorobenzene-d5	10.831	82	332089	10.000	ng	0.02
80) Bromochloromethane(sim)	5.299	130	244327	10.000	ng	# 0.03
95) 1,4-Difluorobenzene(sim)	7.240	114	743930	10.000	ng	0.02
105) Chlorobenzene-d5(sim)	10.831	82	332089	10.000	ng	0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	12.304	95	459496	9.976	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.80%

Target Compounds	Qvalue

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

Data Path : H:\AIR2021\CHEM24\03MAR\12\
Data File : 0312_06.D
Acq On : 12 Mar 2021 12:49 pm
Operator : Keith
Client ID : CH77086 BLANK
Lab ID : CH77086 BLANK
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 12 15:01:04 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 12 10:34:44 2021
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>ECMS</u>	Lab:	<u>Phoenix Env. Labs</u>	SS-1 DUP
SDG No.:	<u>GCH77085</u>	Lab Sample ID:	<u>CH77086 DUP</u>	
Canister:	<u>28605</u>	Lab File ID:	<u>0312_08.D</u>	
Instrument:	<u>CHEM24</u>	Column:	<u>RTX-VMS</u>	Date Received:
				<u>03/11/21</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/12/21</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
75-71-8	Dichlorodifluoromethane	0.280		0.200	0.200	r
74-87-3	Chloromethane	0.200	U	0.200	0.200	r
75-00-3	Chloroethane	0.200	U	0.200	0.200	r
75-69-4	Trichlorofluoromethane	0.226		0.200	0.200	r
75-09-2	Methylene Chloride	0.500	U	0.500	0.500	r
10061-02-6	trans-1,3-Dichloropropene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
75-01-4	Vinyl Chloride(sim)	0.100	U	0.100	0.100	r
74-83-9	Bromomethane(sim)	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane(sim)	0.200	U	0.500	0.200	r
56-23-5	Carbon Tetrachloride(sim)	0.086	U	0.086	0.086	r
75-35-4	1,1-Dichloroethene(sim)	0.200	U	0.200	0.200	r
76-13-1	Trichlorotrifluoroethane(sim)	0.200	U	0.200	0.200	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
75-34-3	1,1-Dichloroethane(sim)	0.200	U	0.200	0.200	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
107-06-2	1,2-Dichloroethane(sim)	0.022	U	0.022	0.022	r
78-87-5	1,2-dichloropropane(sim)	0.027	U	0.027	0.027	r
75-27-4	Bromodichloromethane(sim)	0.020	U	0.020	0.020	r
79-01-6	Trichloroethene(sim)	0.075	U	0.075	0.075	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.200	U	0.200	0.200	r
79-00-5	1,1,2-Trichloroethane(sim)	0.027	U	0.027	0.027	r
124-48-1	Dibromochloromethane(sim)	0.020	U	0.020	0.020	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.020	U	0.020	0.020	r
127-18-4	Tetrachloroethene(sim)	0.200	U	0.200	0.200	r
75-25-2	Bromoform(sim)	0.200	U	0.200	0.200	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.200	U	0.500	0.200	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.020	U	0.020	0.020	r
541-73-1	1,3-Dichlorobenzene(sim)	0.100	U	0.100	0.100	r
106-46-7	1,4-Dichlorobenzene(sim)	0.080	U	0.080	0.080	r
95-50-1	1,2-Dichlorobenzene(sim)	0.100	U	0.100	0.100	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:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_08.D
 Acq On : 12 Mar 2021 1:58 pm
 Operator : Keith
 Client ID : SS-1 DUP
 Lab ID : CH77086 DUP
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 12 15:27:29 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration

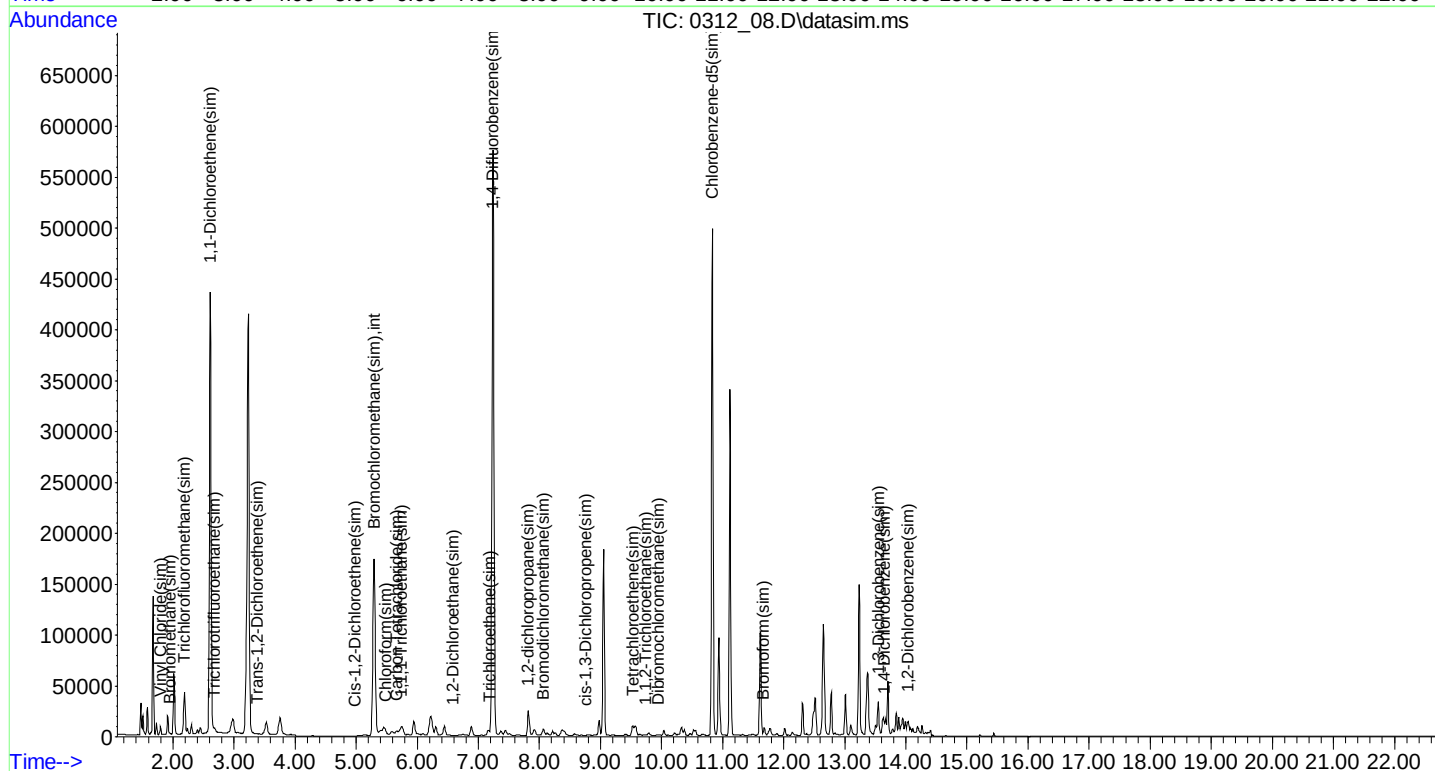
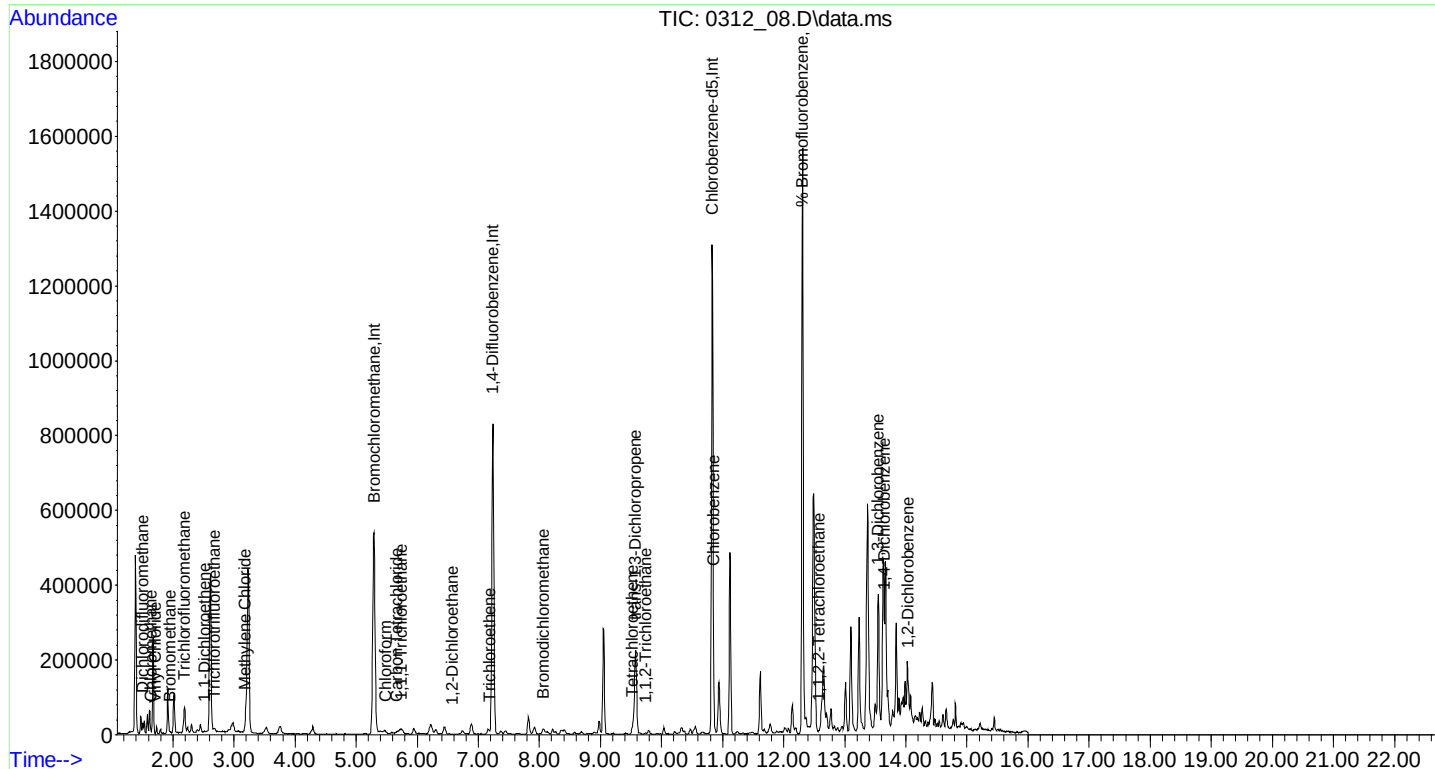
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.294	130	234803	10.000	ng	0.03
36) 1,4-Difluorobenzene	7.238	114	745844	10.000	ng	0.01
53) Chlorobenzene-d5	10.830	82	335107	10.000	ng	0.01
80) Bromochloromethane(sim)	5.297	130	241883	10.000	ng	# 0.03
95) 1,4-Difluorobenzene(sim)	7.238	114	745844	10.000	ng	0.01
105) Chlorobenzene-d5(sim)	10.830	82	335107	10.000	ng	0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.310	95	460836	9.915	ppbv	0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.20%
Target Compounds						
3) Dichlorodifluoromethane	1.506	85	12018	0.280	ppbv	Qvalue 99
13) Trichlorofluoromethane	2.184	101	13575	0.225	ppbv	98
34) Carbon Tetrachloride	5.661	117	4089	0.073	ppbv	92
39) Trichloroethene	7.184	130	1365	0.046	ppbv	94
52) Tetrachloroethene	9.523	166	3100	0.085	ppbv	92
84) Trichlorofluoromethane...	2.187	101	14088	0.205	ppbv	100

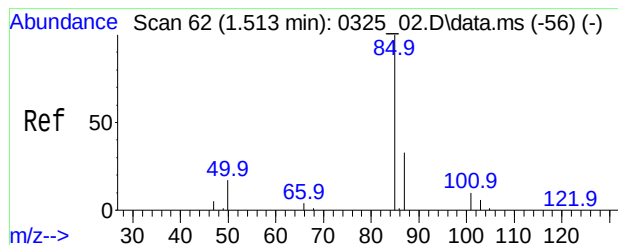
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\03MAR\12\
 Data File : 0312_08.D
 Acq On : 12 Mar 2021 1:58 pm
 Operator : Keith
 Client ID : SS-1 DUP
 Lab ID : CH77086 DUP
 ALS Vial : 8 Sample Multiplier: 1

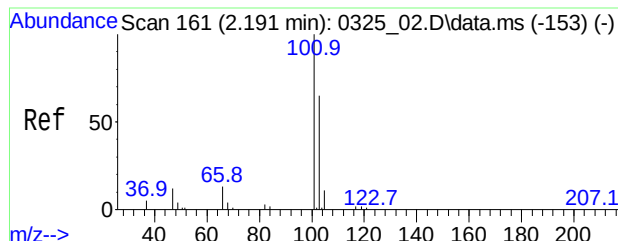
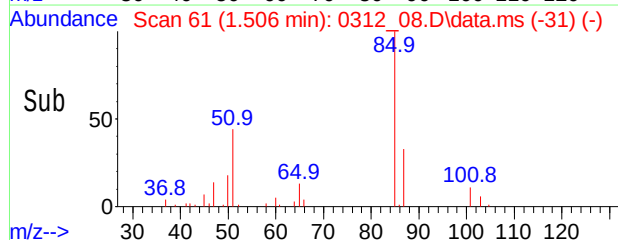
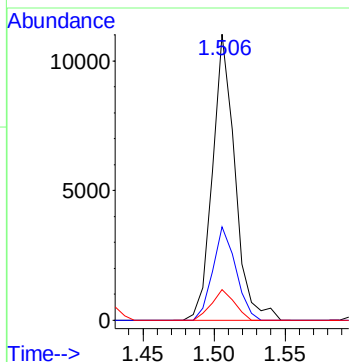
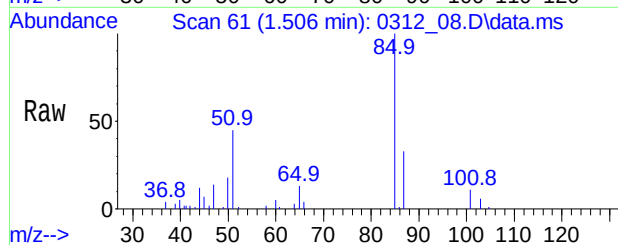
Quant Time: Mar 12 15:27:29 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0310.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 12 10:34:44 2021
 Response via : Initial Calibration





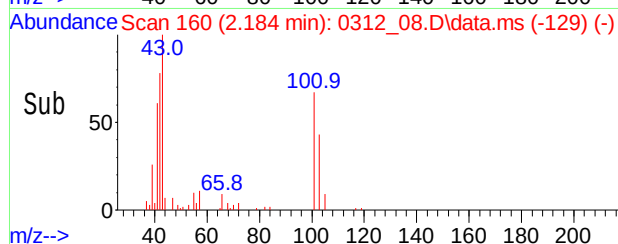
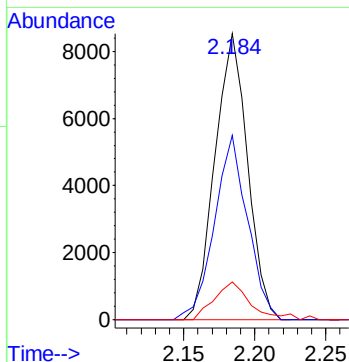
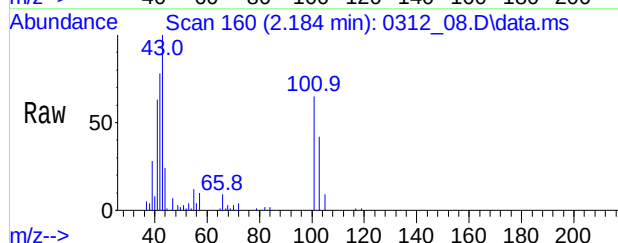
#3
Dichlorodifluoromethane
Conc: 8\$ 0.280 ppbv
RT: 1.506 min Scan# 61
Delta R.T. 0.007 min
Lab File: 0312_08.D
Acq: 12 Mar 2021 1:58 pm

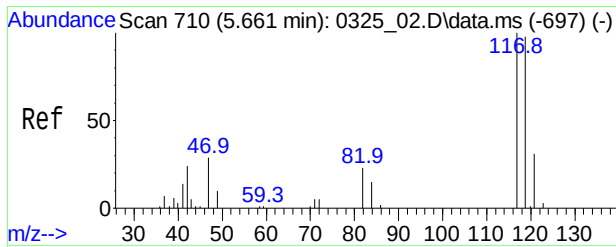
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	12018		
87	33.5	26.6	40.0	
101	10.9	7.9	11.9	



#13
Trichlorofluoromethane
Conc: 8\$ 0.225 ppbv
RT: 2.184 min Scan# 160
Delta R.T. 0.014 min
Lab File: 0312_08.D
Acq: 12 Mar 2021 1:58 pm

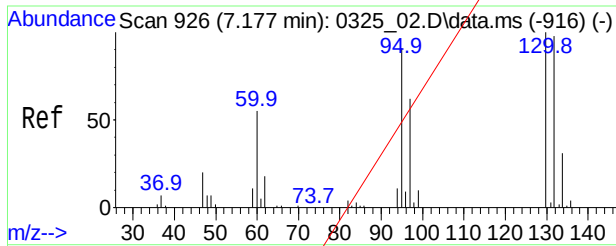
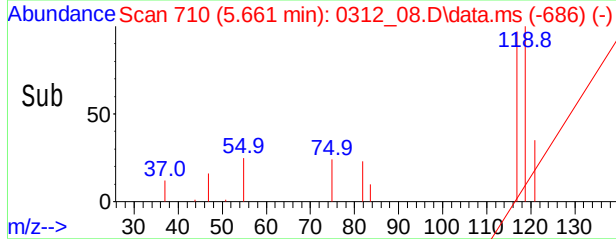
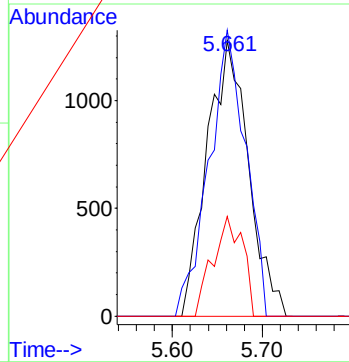
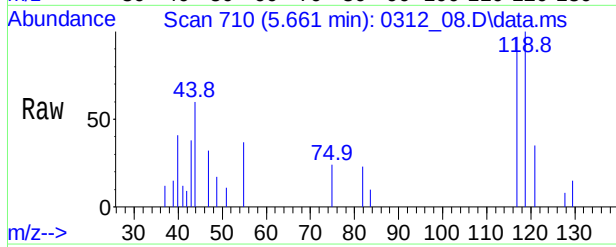
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	13575		
103	65.3	51.5	77.3	
66	14.8	10.6	15.8	





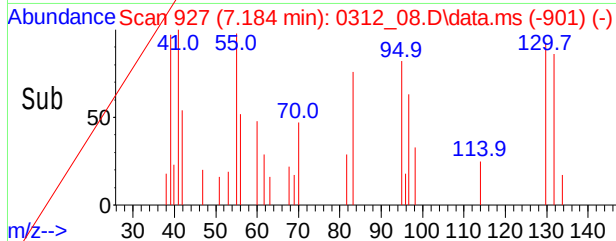
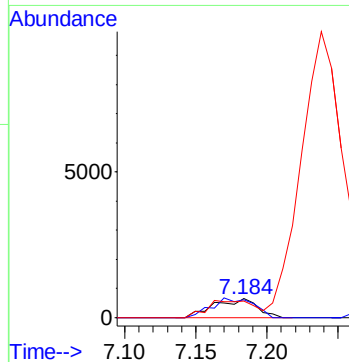
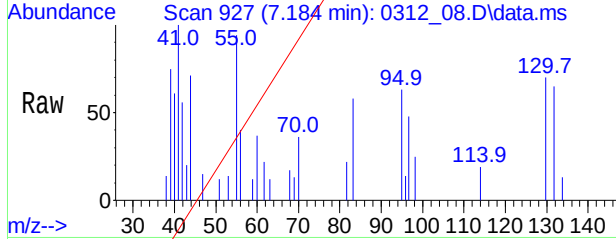
#34
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 5.661 min Scan# 710
Delta R.T. 0.022 min
Lab File: 0312_08.D
Acq: 12 Mar 2021 1:58 pm

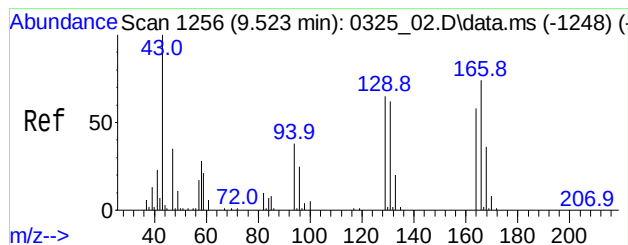
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4089		
119	91.7	78.0	118.0	
121	25.9	12.1	52.1	



#39
Trichloroethene
Conc: 8\$ Below Cal
RT: 7.184 min Scan# 927
Delta R.T. 0.028 min
Lab File: 0312_08.D
Acq: 12 Mar 2021 1:58 pm

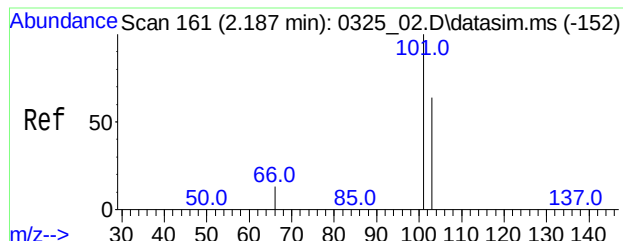
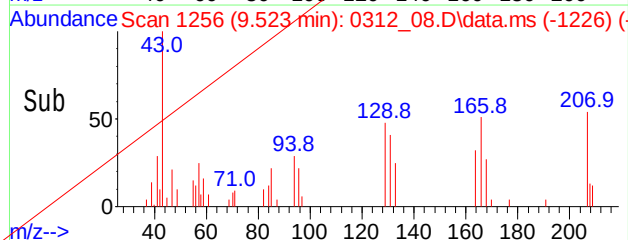
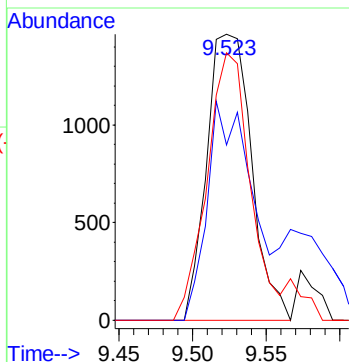
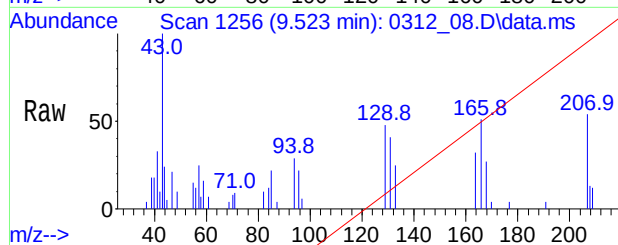
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	1365		
132	99.0	76.6	115.0	
95	98.0	72.3	108.5	





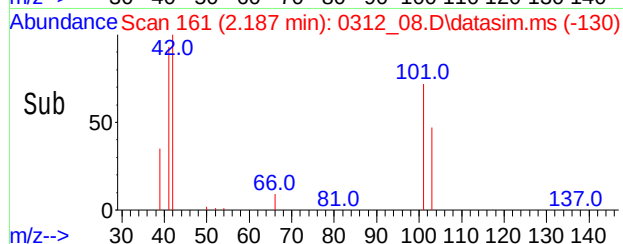
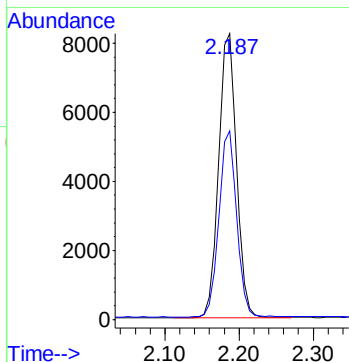
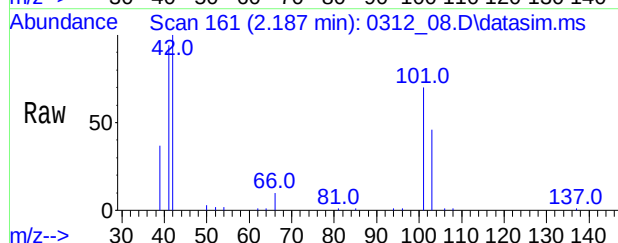
#52
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 9.523 min Scan# 1256
Delta R.T. 0.015 min
Lab File: 0312_08.D
Acq: 12 Mar 2021 1:58 pm

Tgt Ion: 166 Resp: 3100
Ion Ratio Lower Upper
166 100
164 75.0 62.2 93.4
129 96.2 68.3 102.5



#84
Trichlorofluoromethane(sim)
Conc: 8\$ 0.205 ppbv
RT: 2.187 min Scan# 161
Delta R.T. 0.014 min
Lab File: 0312_08.D
Acq: 12 Mar 2021 1:58 pm

Tgt Ion: 101 Resp: 14088
Ion Ratio Lower Upper
101 100
103 64.6 51.9 77.9



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: ECMS Lab: Phoenix Env. Labs

SDG No.: GCH77085 Lab Sample ID: CH77271 LCS

Canister: LCS Lab File ID: 0311_05.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 03/11/21

Purge Volume 200 (cc) Date Analyzed: 03/11/21

Matrix: AIR Dilution Factor: 1

CH77271 LCS

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	10.5		0.200	0.200	r
74-87-3	Chloromethane	10.1		0.200	0.200	r
75-01-4	Vinyl Chloride	10.8		0.100	0.100	r
74-83-9	Bromomethane	10.1		0.150	0.150	r
75-00-3	Chloroethane	10.5		0.200	0.200	r
75-69-4	Trichlorofluoromethane	9.67		0.200	0.200	r
75-35-4	1,1-Dichloroethene	9.55		0.200	0.200	r
75-09-2	Methylene Chloride	9.45		0.500	0.500	r
76-13-1	Trichlorotrifluoroethane	9.86		0.200	0.200	r
156-60-5	Trans-1,2-Dichloroethene	10.4		0.200	0.200	r
75-34-3	1,1-Dichloroethane	10.0		0.200	0.200	r
156-59-2	Cis-1,2-Dichloroethene	10.4		0.200	0.200	r
67-66-3	Chloroform	10.0		0.200	0.200	r
107-06-2	1,2-Dichloroethane	10.8		0.022	0.022	r
71-55-6	1,1,1-Trichloroethane	10.7		0.500	0.500	r
56-23-5	Carbon Tetrachloride	11.1		0.086	0.086	r
78-87-5	1,2-dichloropropane	9.91		0.027	0.027	r
75-27-4	Bromodichloromethane	10.2		0.020	0.020	r
79-01-6	Trichloroethene	10.9		0.075	0.075	r
10061-01-5	cis-1,3-Dichloropropene	11.1		0.200	0.200	r
10061-02-6	trans-1,3-Dichloropropene	10.2		0.200	0.200	r
79-00-5	1,1,2-Trichloroethane	9.86		0.027	0.027	r
124-48-1	Dibromochloromethane	10.7		0.020	0.020	r
106-93-4	1,2-Dibromoethane(EDB)	10.5		0.020	0.020	r
127-18-4	Tetrachloroethene	10.6		0.200	0.200	r
630-20-6	1,1,1,2-Tetrachloroethane	10.1		0.500	0.500	r
108-90-7	Chlorobenzene	10.1		0.200	0.200	r
75-25-2	Bromoform	11.2		0.200	0.200	r
79-34-5	1,1,2,2-Tetrachloroethane	9.90		0.020	0.020	r
541-73-1	1,3-Dichlorobenzene	11.1		0.100	0.100	r
106-46-7	1,4-Dichlorobenzene	11.8		0.080	0.080	r
95-50-1	1,2-Dichlorobenzene	11.1		0.100	0.100	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:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_05.D
 Acq On : 11 Mar 2021 4:25 pm
 Operator :
 Client ID : CH77271 LCS
 Lab ID : CH77271 LCS
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 09:32:46 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 15:44:40 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.715	130	249889	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.900	114	945348	10.000	ng	0.00
54) Chlorobenzene-d5	10.440	82	489371	10.000	ng	0.00
81) Bromochloromethane(sim)	6.720	130	285554	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.900	114	945348	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.440	82	489359	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.291	95	586986	10.385	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.80%

Target Compounds					Qvalue	
3) Dichlorodifluoromethane	3.478	85	659158	10.466	ppbv	99
4) Chloromethane	3.618	50	489983	10.109	ppbv	86
6) Vinyl Chloride	3.801	62	362536	10.760	ppbv	88
8) Bromomethane	4.125	94	238052	10.084	ppbv#	72
9) Chloroethane	4.254	64	168625	10.507	ppbv#	69
13) Trichlorofluoromethane	4.815	101	758391	9.670	ppbv	97
16) 1,1-Dichloroethene	5.252	61	567275	9.552	ppbv	90
17) Methylene Chloride	5.330	49	613576	9.453	ppbv	96
21) Trichlorotrifluoroethane	5.502	101	548142	9.856	ppbv	93
22) Trans-1,2-Dichloroethene	5.947	61	489781	10.378	ppbv#	81
23) 1,1-Dichloroethane	6.081	63	563949	10.038	ppbv	89
27) Cis-1,2-Dichloroethene	6.610	61	473538	10.402	ppbv	98
29) Chloroform	6.798	83	571291	10.032	ppbv#	77
32) 1,2-Dichloroethane	7.256	62	513386	10.814	ppbv#	83
33) 1,1,1-Trichloroethane	7.412	97	641364	10.683	ppbv	93
35) Carbon Tetrachloride	7.789	117	721432	11.057	ppbv	93
38) 1,2-dichloropropane	8.201	63	360119	9.913	ppbv	89
39) Bromodichloromethane	8.323	83	643894	10.179	ppbv	90
40) Trichloroethene	8.345	130	388020	10.933	ppbv#	85
45) cis-1,3-Dichloropropene	8.847	75	482260	11.049	ppbv	91
47) trans-1,3-Dichloropropene	9.153	75	478209	10.164	ppbv#	90
48) 1,1,2-Trichloroethane	9.269	97	317214	9.858	ppbv	97
50) Dibromochloromethane	9.687	129	661850	10.715	ppbv	96
52) 1,2-Dibromoethane(EDB)	9.822	107	502494	10.516	ppbv	83
53) Tetrachloroethene	10.075	166	449479	10.570	ppbv	90
55) 1,1,1,2-Tetrachloroethane	10.451	131	458129	10.067	ppbv	90
56) Chlorobenzene	10.461	112	786473	10.099	ppbv#	27
59) Bromoform	10.830	173	552609	11.195	ppbv	94
61) 1,1,2,2-Tetrachloroethane	11.025	83	708767	9.897	ppbv#	81
72) 1,3-Dichlorobenzene	12.132	146	690809	11.045	ppbv#	89
73) 1,4-Dichlorobenzene	12.173	146	637505	11.815	ppbv	85
76) 1,2-Dichlorobenzene	12.389	146	657591	11.061	ppbv	89
83) Vinyl Chloride(sim)	3.796	62	406352	10.515	ppbv	100
84) Bromomethane(sim)	4.125	94	238052	9.269	ppbv#	72
85) Trichlorofluoromethane...	4.809	101	834597	9.438	ppbv#	98
86) 1,2-Dichloroethane(sim)	7.256	62	513632	10.695	ppbv#	83
87) 1,1,1-Trichloroethane(...)	7.418	97	708449	10.334	ppbv#	100
89) Carbon Tetrachloride(sim)	7.794	117	791400	10.700	ppbv	99
90) 1,1-Dichloroethene(sim)	5.252	61	567275	8.897	ppbv	90
91) Trichlorotrifluoroetha...	5.508	101	611206	9.405	ppbv#	99
92) Trans-1,2-Dichloroethe...	5.947	61	489781	10.805	ppbv#	81
93) 1,1-Dichloroethane(sim)	6.086	63	635999	9.845	ppbv	99
94) Cis-1,2-Dichloroethene...	6.610	61	473538	11.051	ppbv	98
95) Chloroform(sim)	6.804	83	622813	9.638	ppbv#	82

Data Path : H:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_05.D
 Acq On : 11 Mar 2021 4:25 pm
 Operator :
 Client ID : CH77271 LCS
 Lab ID : CH77271 LCS
 ALS Vial : 4 Sample Multiplier: 1

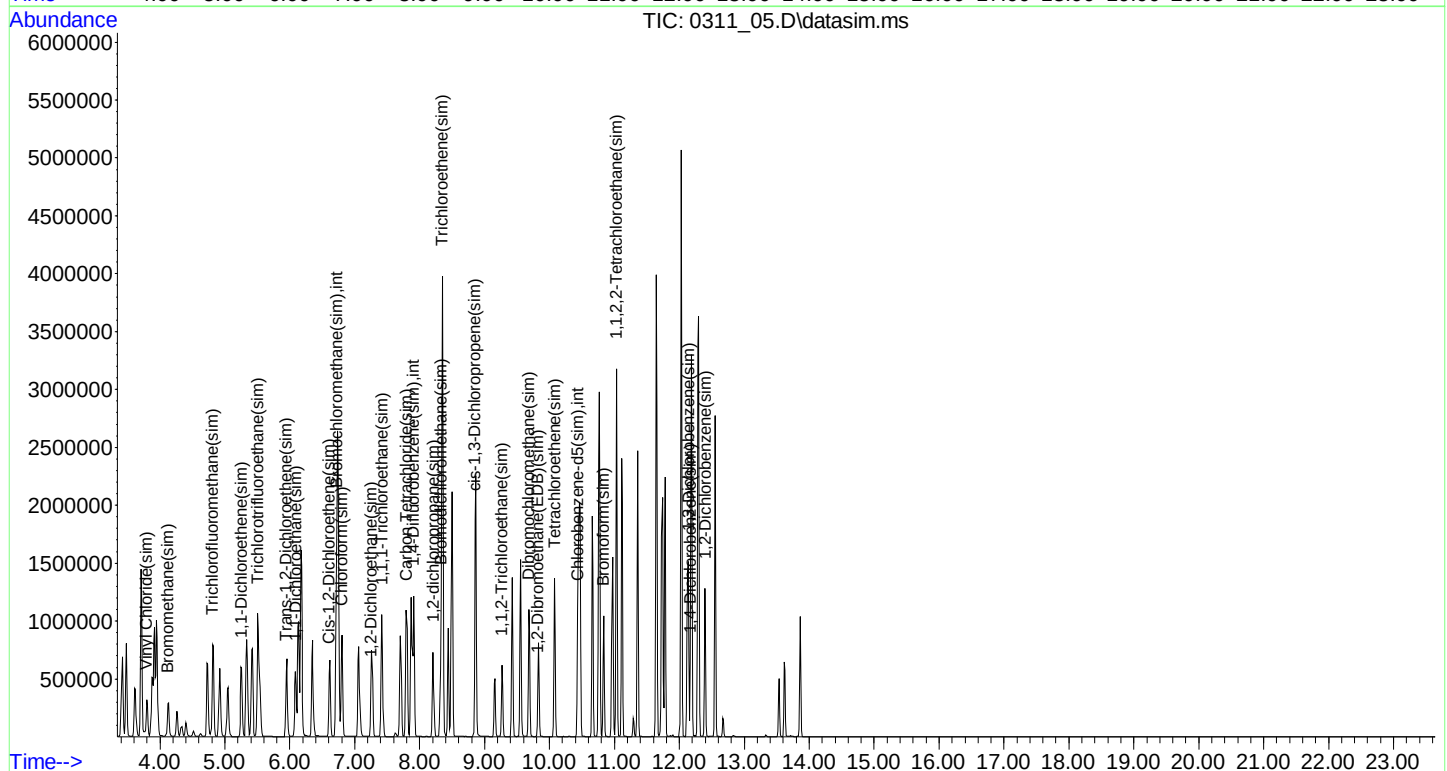
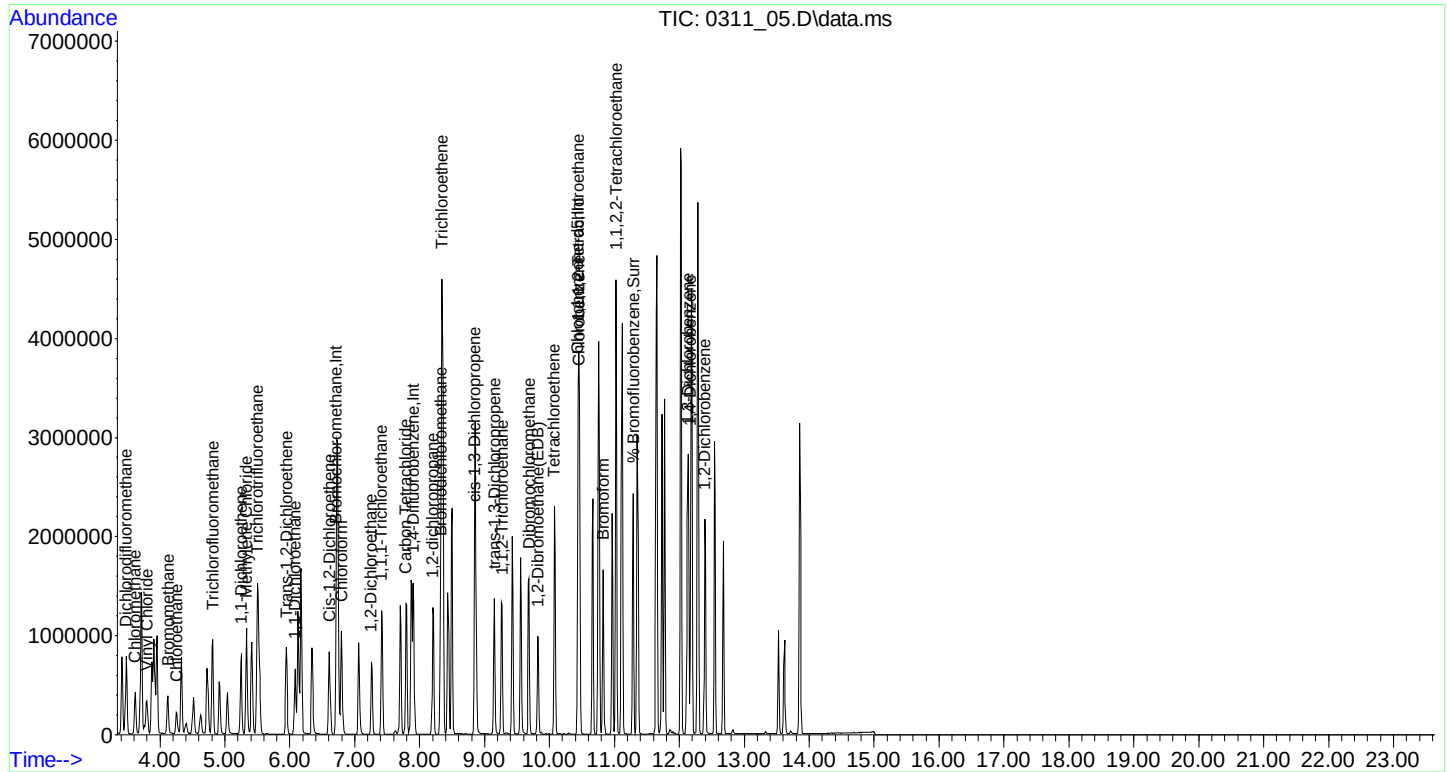
Quant Time: Mar 12 09:32:46 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 15:44:40 2021
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
97]	1,2-dichloropropane(sim)	8.206	63	405257	9.392	ppbv	97
98]	Bromodichloromethane(sim)	8.323	83	643894	9.478	ppbv	90
99]	Trichloroethene(sim)	8.351	130	448415	10.437	ppbv	99
101]	cis-1,3-Dichloropropen...	8.852	75	543300	12.033	ppbv	99
102]	1,1,2-Trichloroethane(...	9.269	97	317214	9.179	ppbv	96
103]	Dibromochloromethane(sim)	9.682	129	750676	10.680	ppbv	98
104]	1,2-Dibromoethane(EDB)...	9.822	107	502494	10.882	ppbv	83
105]	Tetrachloroethene(sim)	10.080	166	530767	10.135	ppbv	98
107]	Bromoform(sim)	10.835	173	616772	10.306	ppbv	98
109]	1,1,2,2-Tetrachloroeth...	11.030	83	772297	8.938	ppbv	99
113]	1,3-Dichlorobenzene(sim)	12.138	146	814017	12.602	ppbv	97
114]	1,4-Dichlorobenzene(sim)	12.173	146	637505	13.836	ppbv	85
117]	1,2-Dichlorobenzene(sim)	12.394	146	767366	11.890	ppbv	95

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

Data Path : H:\AIR2021\CHEM20\03MAR\11\
Data File : 0311_05.D
Acq On : 11 Mar 2021 4:25 pm
Operator :
Client ID : CH77271 LCS
Lab ID : CH77271 LCS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 12 09:32:46 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 09 15:44:40 2021
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>ECMS</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCH77085</u>	Lab Sample ID:	<u>CH77271 0.5X</u>
Canister:	<u>18111</u>	Lab File ID:	<u>0311_08.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/11/21</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/11/21</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.361		0.250	0.250	r
74-87-3	Chloromethane	0.566		0.250	0.250	r
75-00-3	Chloroethane	0.250	U	0.250	0.250	r
75-69-4	Trichlorofluoromethane	0.675		0.250	0.250	r
75-09-2	Methylene Chloride	1.50	U	1.50	1.50	r
10061-02-6	trans-1,3-Dichloropropene	0.250	U	0.250	0.250	r
127-18-4	Tetrachloroethene	5.08		0.050	0.050	r
630-20-6	1,1,1,2-Tetrachloroethane	0.038	U	0.038	0.038	r
108-90-7	Chlorobenzene	0.100	U	0.100	0.100	r
75-01-4	Vinyl Chloride(sim)	0.010	U	0.010	0.010	r
74-83-9	Bromomethane(sim)	0.070	U	0.070	0.070	r
107-06-2	1,2-Dichloroethane(sim)	0.010	U	0.010	0.010	r
71-55-6	1,1,1-Trichloroethane(sim)	0.250	U	0.250	0.250	r
56-23-5	Carbon Tetrachloride(sim)	0.075		0.043	0.043	r
75-35-4	1,1-Dichloroethene(sim)	0.010	U	0.010	0.010	r
76-13-1	Trichlorotrifluoroethane(sim)	0.250	U	0.250	0.250	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.100	U	0.100	0.100	r
75-34-3	1,1-Dichloroethane(sim)	0.075	U	0.075	0.075	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.100	U	0.100	0.100	r
67-66-3	Chloroform(sim)	0.100	U	0.100	0.100	r
78-87-5	1,2-dichloropropane(sim)	0.010	U	0.010	0.010	r
75-27-4	Bromodichloromethane(sim)	0.010	U	0.010	0.010	r
79-01-6	Trichloroethene(sim)	0.025	U	0.025	0.025	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.050	U	0.050	0.050	r
79-00-5	1,1,2-Trichloroethane(sim)	0.010	U	0.010	0.010	r
124-48-1	Dibromochloromethane(sim)	0.010	U	0.010	0.010	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.010	U	0.010	0.010	r
75-25-2	Bromoform(sim)	0.075	U	0.075	0.075	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.010	U	0.010	0.010	r
541-73-1	1,3-Dichlorobenzene(sim)	0.050	U	0.050	0.050	r
106-46-7	1,4-Dichlorobenzene(sim)	0.040	U	0.040	0.040	r
95-50-1	1,2-Dichlorobenzene(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

Data Path : H:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_08.D
 Acq On : 11 Mar 2021 7:18 pm
 Operator :
 Client ID : CH77271 QC
 Lab ID : CH77271 QC
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 12 10:41:04 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Mar 09 15:44:40 2021
 Response via : Initial Calibration

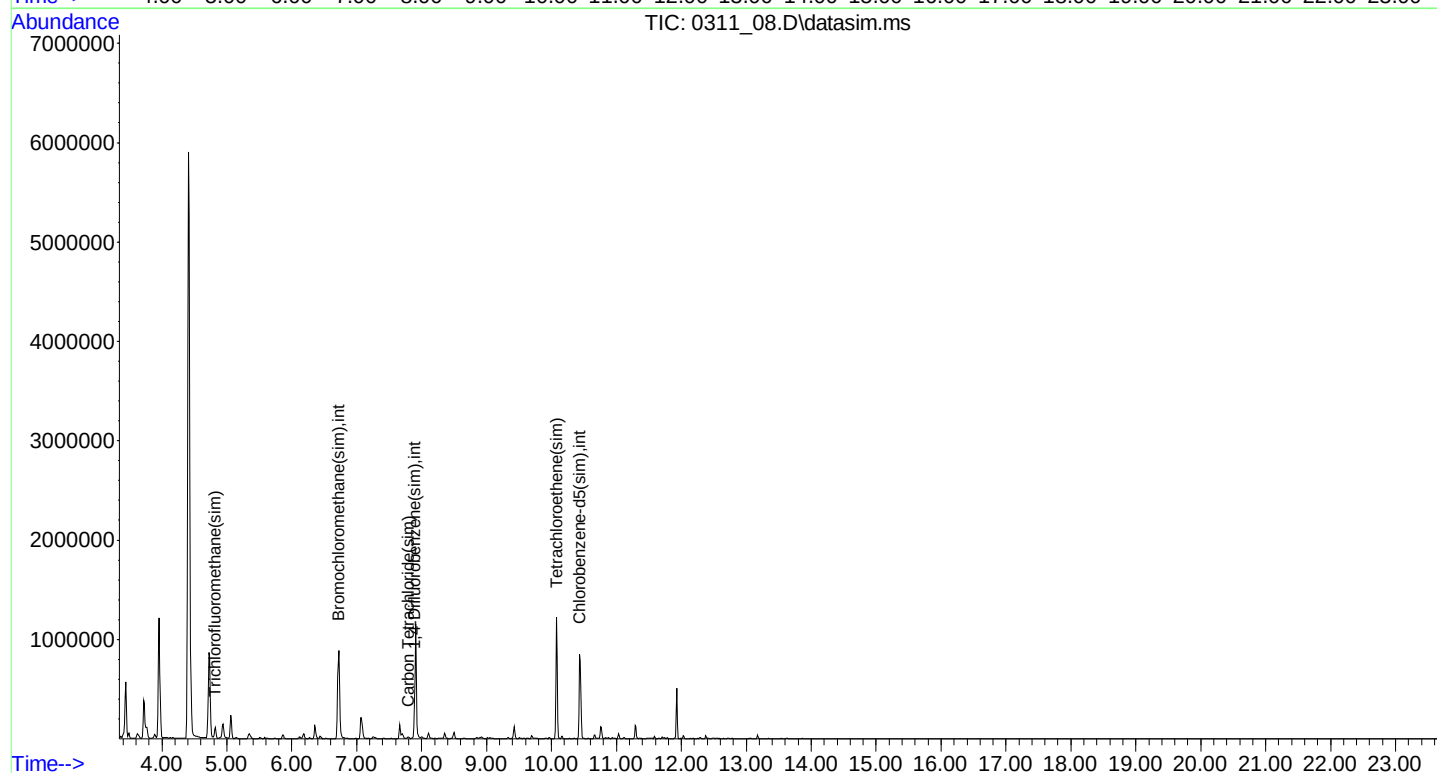
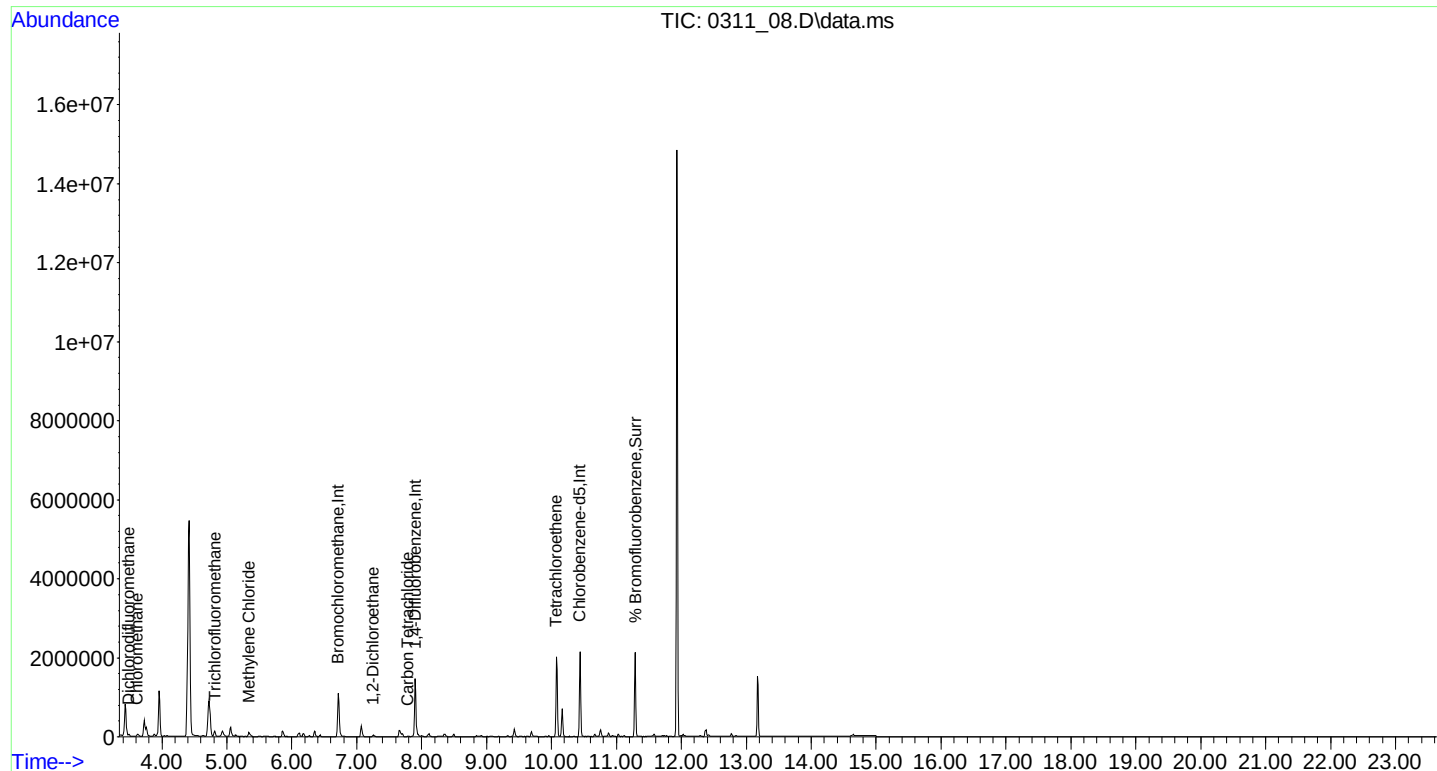
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.715	130	231531	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.900	114	896726	10.000	ng	0.00
54) Chlorobenzene-d5	10.440	82	421417	10.000	ng	0.00
81) Bromochloromethane(sim)	6.720	130	270080	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.900	114	896726	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.440	82	421655	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.291	95	496992	10.210	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.10%
Target Compounds						
3) Dichlorodifluoromethane	3.489	85	42153	0.722	ppbv	Qvalue 95
4) Chloromethane	3.618	50	50816	1.132	ppbv	88
13) Trichlorofluoromethane	4.815	101	98057	1.349	ppbv	97
16) 1,1-Dichloroethene	5.218	61	836	0.015	ppbv#	35
17) Methylene Chloride	5.338	49	39345	0.654	ppbv	96
32) 1,2-Dichloroethane	7.256	62	1720	0.039	ppbv	91
35) Carbon Tetrachloride	7.789	117	9753	0.161	ppbv	98
39) Bromodichloromethane	8.312	83	993	0.017	ppbv#	32
53) Tetrachloroethene	10.075	166	409806	10.159	ppbv	91
61) 1,1,2,2-Tetrachloroethane	11.024	83	1002	0.016	ppbv#	1
85) Trichlorofluoromethane...	4.820	101	107908	1.290	ppbv#	98
89) Carbon Tetrachloride(sim)	7.794	117	10453	0.149	ppbv	98
98) Bromodichloromethane(sim)	8.312	83	993	0.015	ppbv#	32
105) Tetrachloroethene(sim)	10.080	166	484298	9.749	ppbv	98

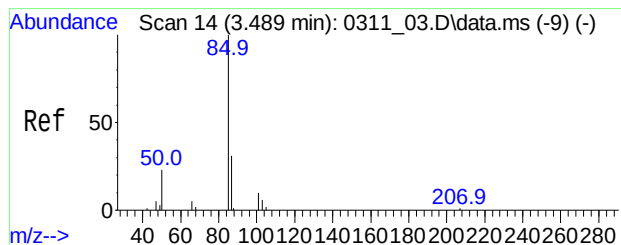
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_08.D
 Acq On : 11 Mar 2021 7:18 pm
 Operator :
 Client ID : CH77271 QC
 Lab ID : CH77271 QC
 ALS Vial : 7 Sample Multiplier: 1

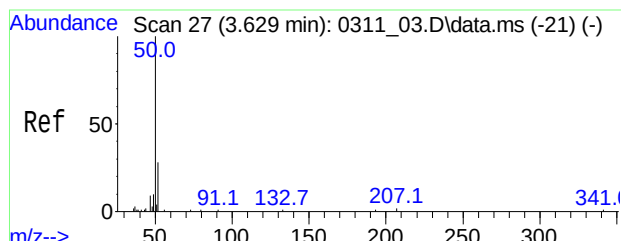
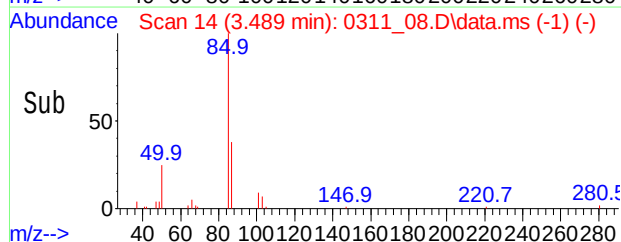
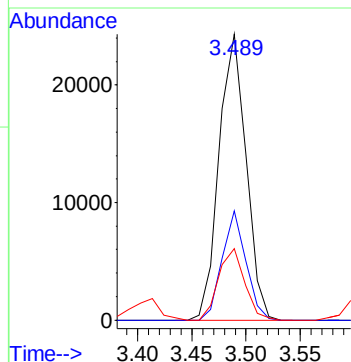
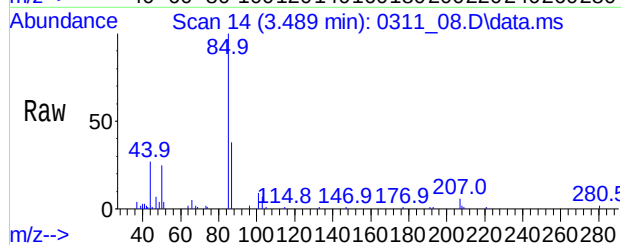
Quant Time: Mar 12 10:41:04 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Tue Mar 09 15:44:40 2021
 Response via : Initial Calibration





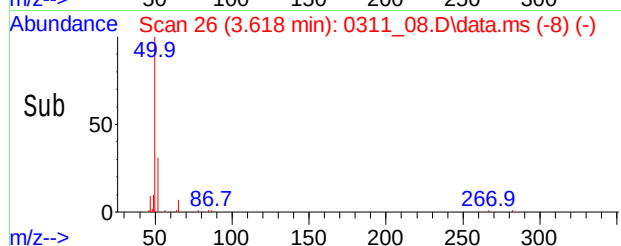
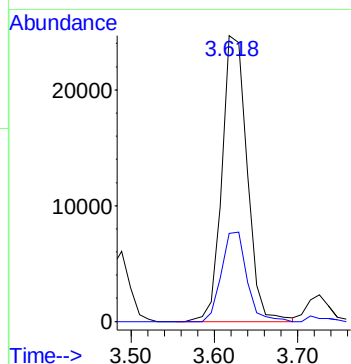
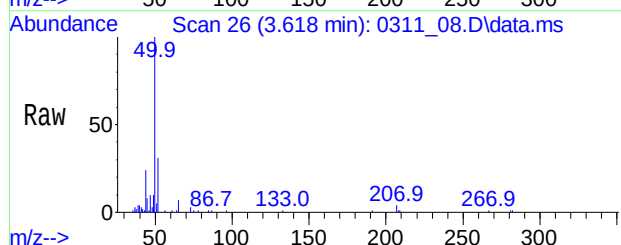
#3
Dichlorodifluoromethane
Conc: 8\$ 0.722 ppbv
RT: 3.489 min Scan# 14
Delta R.T. -0.000 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

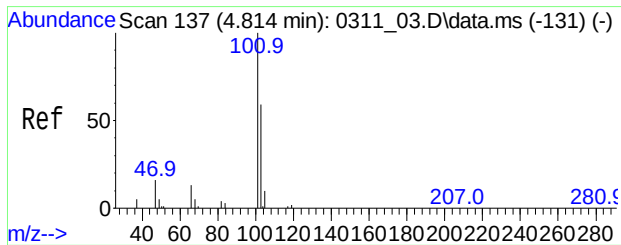
Tgt Ion	Ratio	Resp	Lower	Upper
85	100	42153		
87	33.6	25.6	38.4	
50	24.2	16.7	25.1	



#4
Chloromethane
Conc: 8\$ 1.132 ppbv
RT: 3.618 min Scan# 26
Delta R.T. -0.011 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

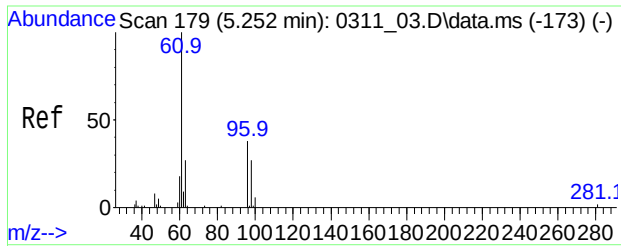
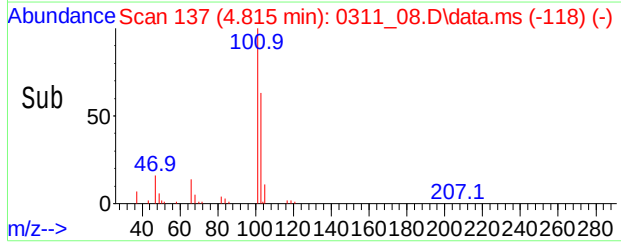
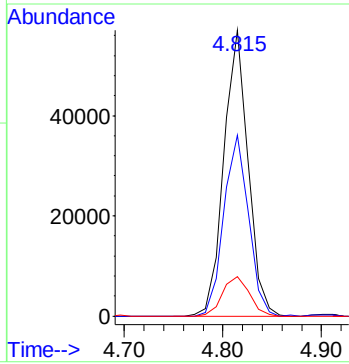
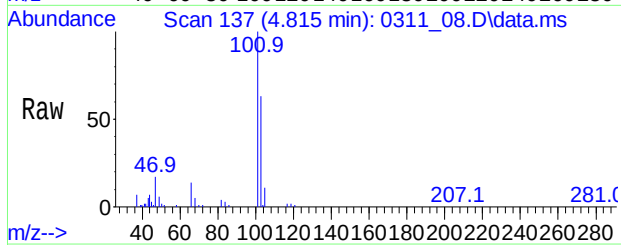
Tgt Ion	Ratio	Resp	Lower	Upper
50	100	50816		
52	31.5	19.1	59.1	





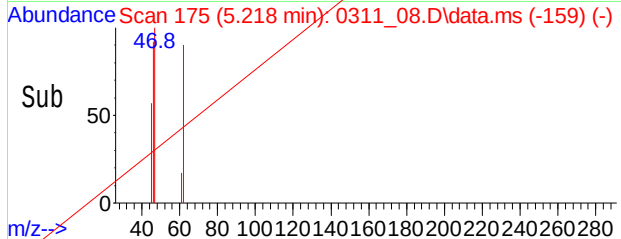
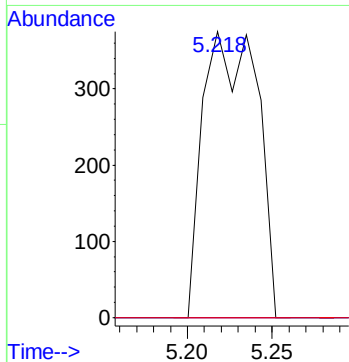
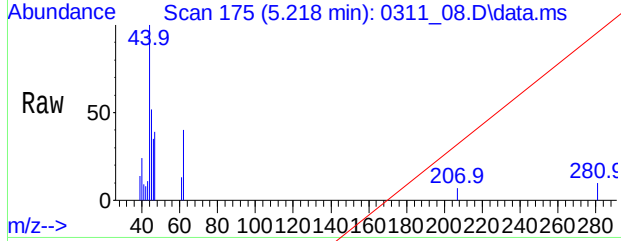
#13
Trichlorofluoromethane
Conc: 8\$ 1.349 ppbv
RT: 4.815 min Scan# 137
Delta R.T. 0.001 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

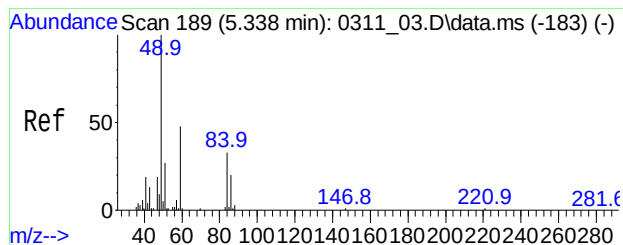
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	98057		
103	64.7	49.3	73.9	
66	15.3	12.3	18.5	



#16
~~1,1-Dichloroethene~~
Conc: 8\$ Below Cal
RT: 5.218 min Scan# 175
Delta R.T. -0.034 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

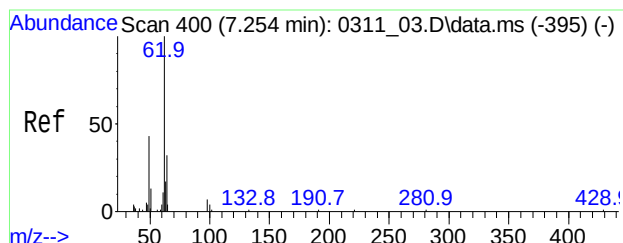
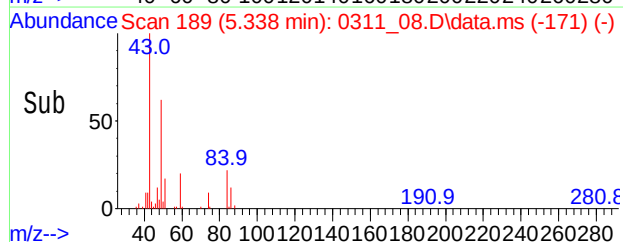
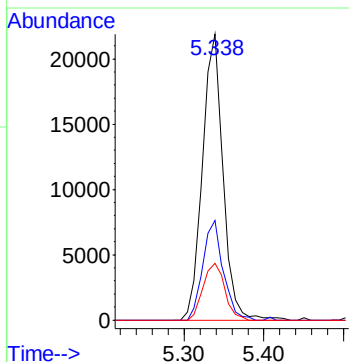
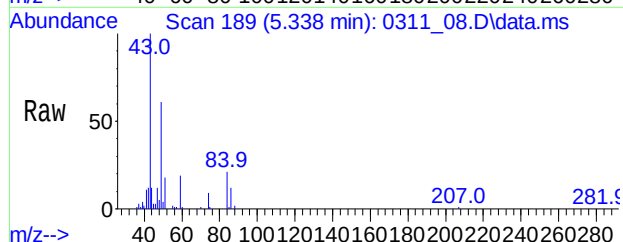
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	836		
96	0.0	40.1	60.1#	
98	0.0	20.0	30.0#	





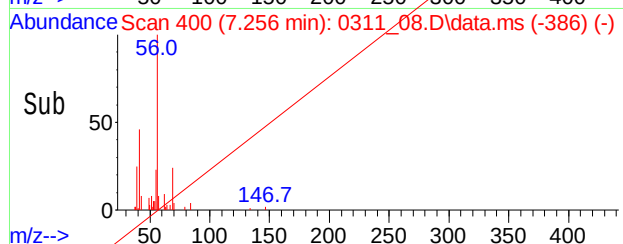
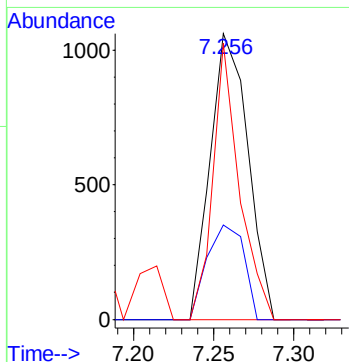
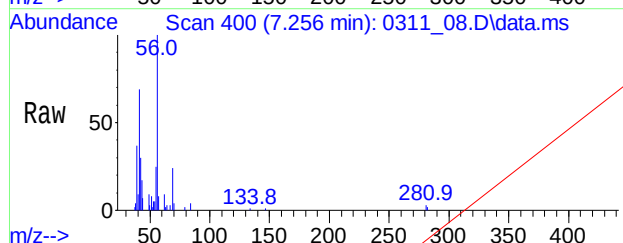
#17
Methylene Chloride
Conc: 8\$ 0.654 ppbv
RT: 5.338 min Scan# 189
Delta R.T. 0.008 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

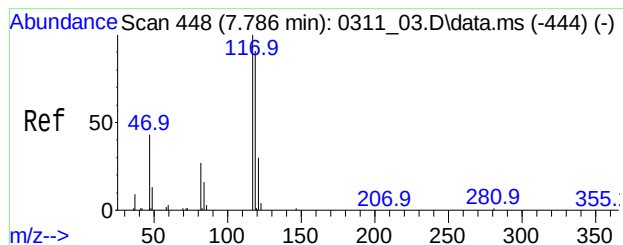
Tgt Ion	Ratio	Resp	Lower	Upper
49	100	39345		
84	34.4	25.0	37.4	
86	20.8	16.2	24.4	



#32
1,2-Dichloroethane
Conc: 8\$ Below Cal
RT: 7.256 min Scan# 400
Delta R.T. 0.000 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

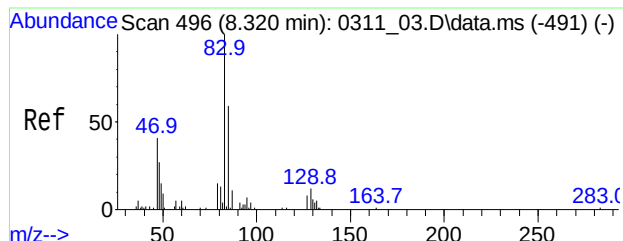
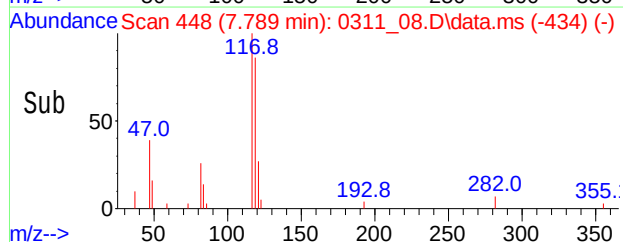
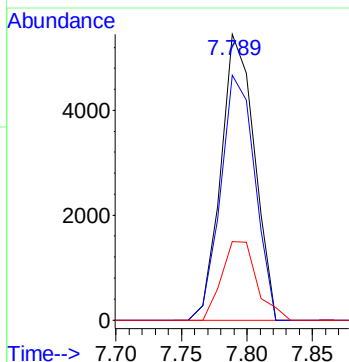
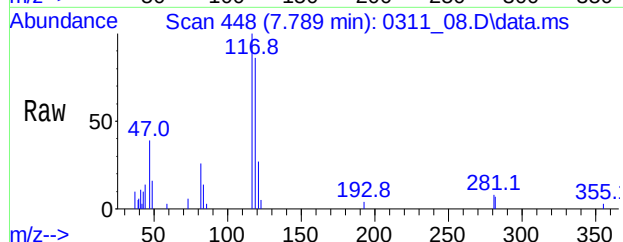
Tgt Ion	Ratio	Resp	Lower	Upper
62	100	1720		
64	32.3	27.4	41.2	
49	67.8	47.4	71.0	





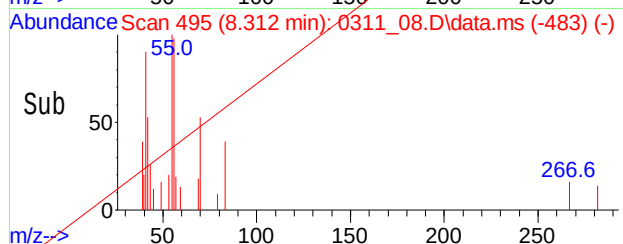
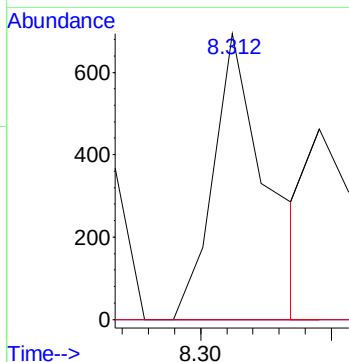
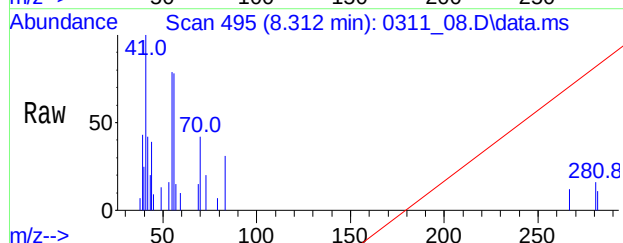
#35
Carbon Tetrachloride
Conc: 8\$ 0.161 ppbv
RT: 7.789 min Scan# 448
Delta R.T. 0.001 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

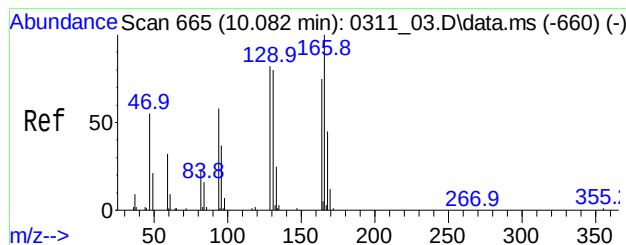
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	9753		
119	87.4	67.3	107.3	
121	28.9	13.7	53.7	



#39
Bromodichloromethane
Conc: 8\$ Below Cal
RT: 8.312 min Scan# 495
Delta R.T. -0.011 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

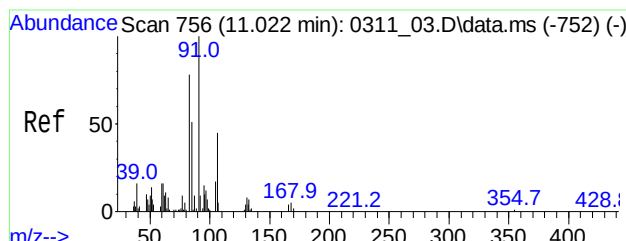
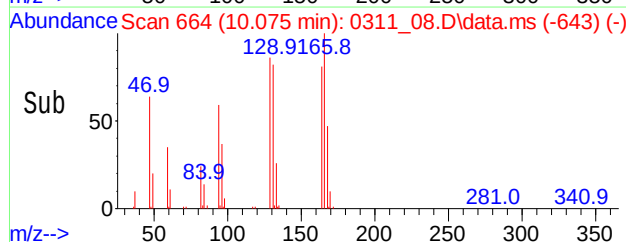
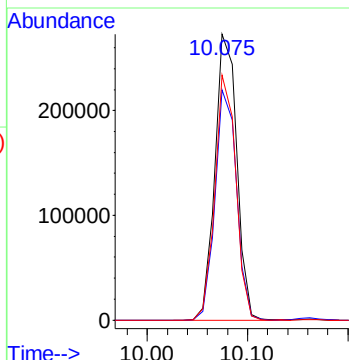
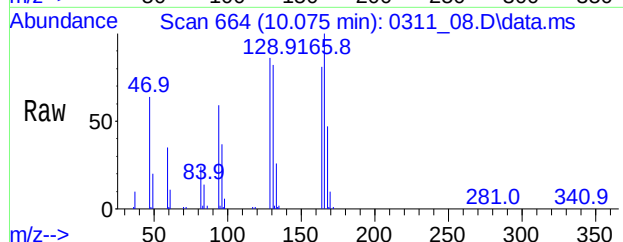
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	993		
85	0.0	35.2	75.2#	
129	0.0	0.0	32.2	





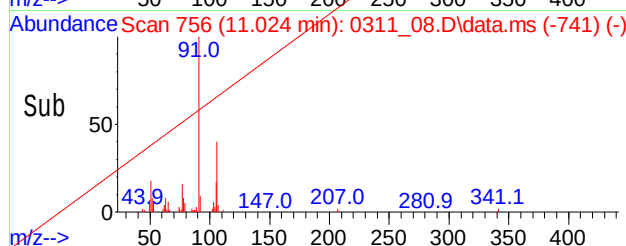
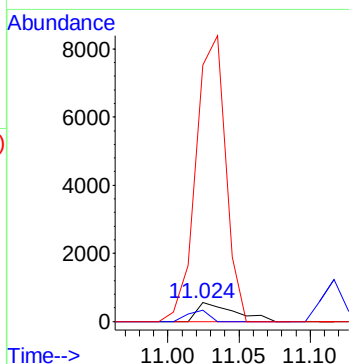
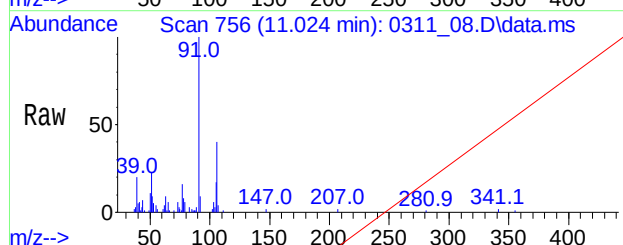
#53
Tetrachloroethene
Conc: 8\$ 10.159 ppbv
RT: 10.075 min Scan# 664
Delta R.T. -0.000 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

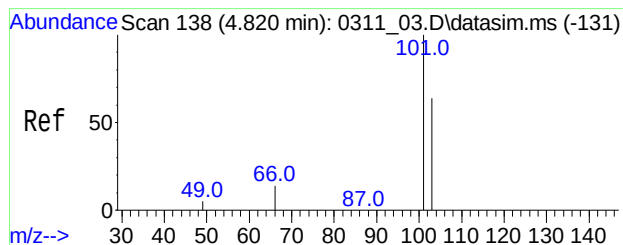
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	409806		
164	78.8	58.9	88.3	
129	81.8	57.7	86.5	



#61
~~1,1,2,2-Tetrachloroethane~~
Conc: 8\$ Below Cal
RT: 11.024 min Scan# 756
Delta R.T. 0.000 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

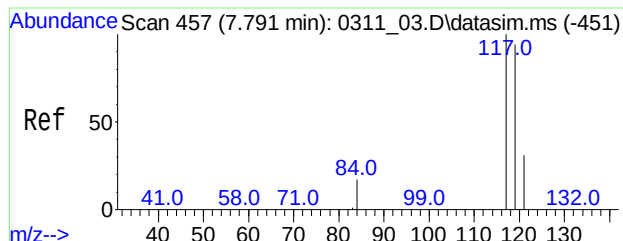
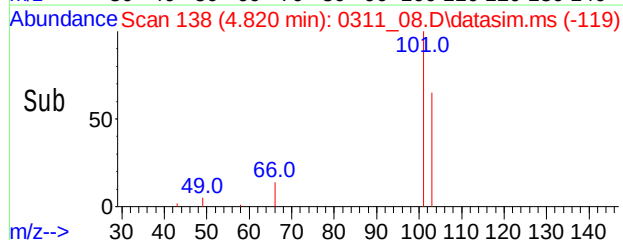
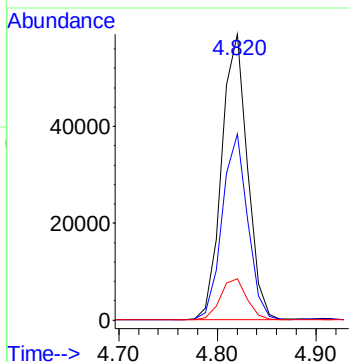
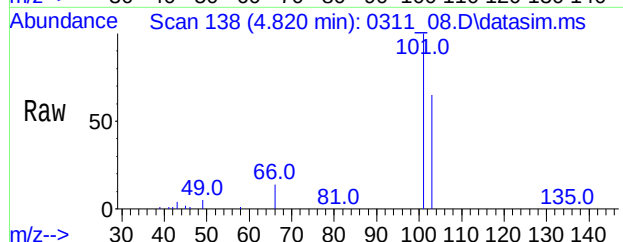
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	1002		
85	33.8	59.8	89.6#	
106	1209.6	38.6	57.8#	





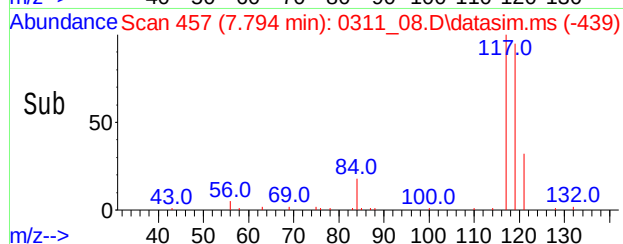
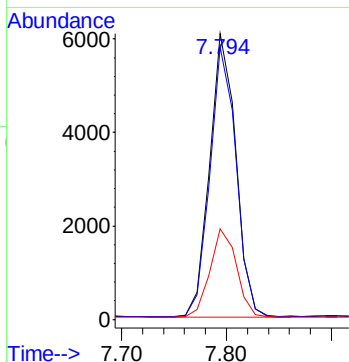
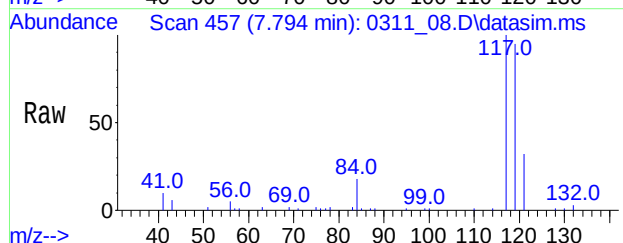
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 1.290 ppbv
RT: 4.820 min Scan# 138
Delta R.T. 0.000 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

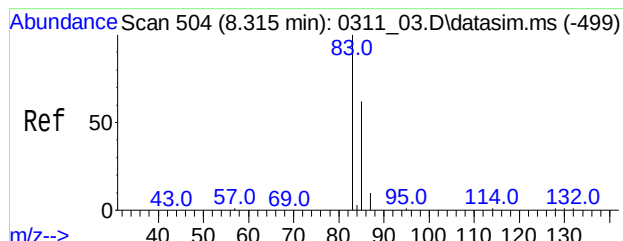
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	107908		
103	64.1	50.5	75.7	
66	14.7	16.5	16.5#	



#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.149 ppbv
RT: 7.794 min Scan# 457
Delta R.T. 0.000 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

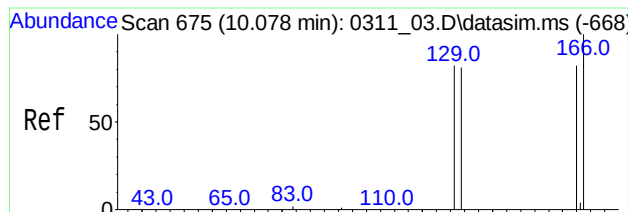
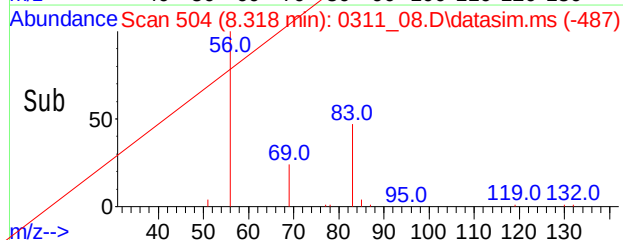
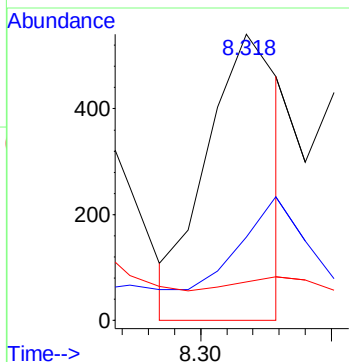
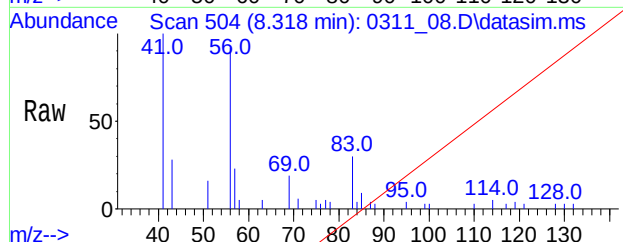
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	10453		
119	95.2	77.8	116.6	
121	31.7	25.8	38.6	





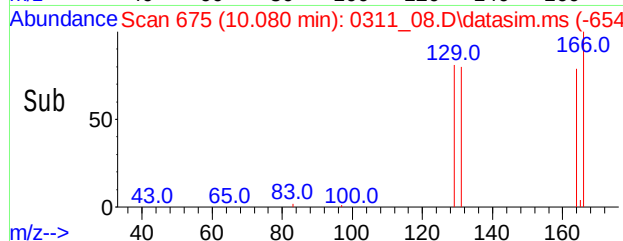
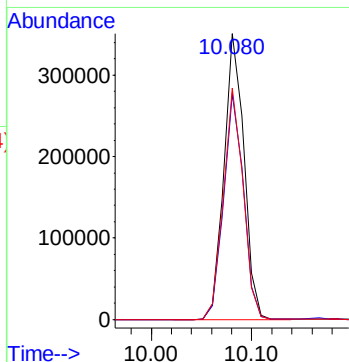
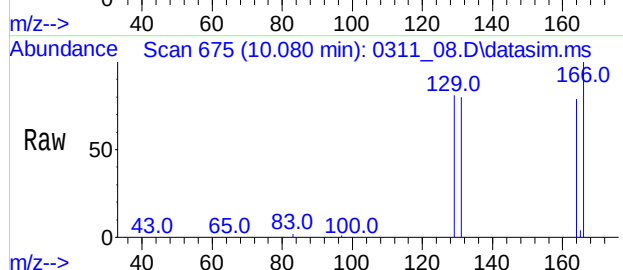
#98
Bromodichloromethane(sim)
Conc: 8\$ Below Cal
RT: 8.312 min Scan# 504
Delta R.T. -0.011 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

Tgt Ion: 83 Resp: 993
Ion Ratio Lower Upper
83 100
85 0.0 35.2 75.2#
87 0.0 0.0 32.3



#105
Tetrachloroethene(sim)
Conc: 8\$ 9.749 ppbv
RT: 10.080 min Scan# 675
Delta R.T. 0.000 min
Lab File: 0311_08.D
Acq: 11 Mar 2021 7:18 pm

Tgt Ion: 166 Resp: 484298
Ion Ratio Lower Upper
166 100
164 78.4 60.4 100.4
129 79.6 59.0 99.0



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CH77271 BLANK

Client: ECMS Lab: Phoenix Env. Labs

SDG No.: GCH77085 Lab Sample ID: CH77271 BL

Canister: BL Lab File ID: 0311_07.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 03/11/21

Purge Volume 200 (cc) Date Analyzed: 03/11/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.250	U	0.250	0.250	r
74-87-3	Chloromethane	0.250	U	0.250	0.250	r
75-00-3	Chloroethane	0.250	U	0.250	0.250	r
75-09-2	Methylene Chloride	1.50	U	1.50	1.50	r
10061-02-6	trans-1,3-Dichloropropene	0.250	U	0.250	0.250	r
630-20-6	1,1,1,2-Tetrachloroethane	0.038	U	0.038	0.038	r
108-90-7	Chlorobenzene	0.100	U	0.100	0.100	r
75-01-4	Vinyl Chloride(sim)	0.010	U	0.010	0.010	r
74-83-9	Bromomethane(sim)	0.070	U	0.070	0.070	r
75-69-4	Trichlorofluoromethane(sim)	0.250	U	0.250	0.250	r
107-06-2	1,2-Dichloroethane(sim)	0.010	U	0.010	0.010	r
71-55-6	1,1,1-Trichloroethane(sim)	0.250	U	0.250	0.250	r
56-23-5	Carbon Tetrachloride(sim)	0.043	U	0.043	0.043	r
75-35-4	1,1-Dichloroethene(sim)	0.010	U	0.010	0.010	r
76-13-1	Trichlorotrifluoroethane(sim)	0.250	U	0.250	0.250	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.100	U	0.100	0.100	r
75-34-3	1,1-Dichloroethane(sim)	0.075	U	0.075	0.075	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.100	U	0.100	0.100	r
67-66-3	Chloroform(sim)	0.100	U	0.100	0.100	r
78-87-5	1,2-dichloropropane(sim)	0.010	U	0.010	0.010	r
75-27-4	Bromodichloromethane(sim)	0.010	U	0.010	0.010	r
79-01-6	Trichloroethene(sim)	0.025	U	0.025	0.025	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.050	U	0.050	0.050	r
79-00-5	1,1,2-Trichloroethane(sim)	0.010	U	0.010	0.010	r
124-48-1	Dibromochloromethane(sim)	0.010	U	0.010	0.010	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.010	U	0.010	0.010	r
127-18-4	Tetrachloroethene(sim)	0.050	U	0.050	0.050	r
75-25-2	Bromoform(sim)	0.075	U	0.075	0.075	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.010	U	0.010	0.010	r
541-73-1	1,3-Dichlorobenzene(sim)	0.050	U	0.050	0.050	r
106-46-7	1,4-Dichlorobenzene(sim)	0.040	U	0.040	0.040	r
95-50-1	1,2-Dichlorobenzene(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

Data Path : H:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_07.D
 Acq On : 11 Mar 2021 5:34 pm
 Operator :
 Client ID : CH77271 BLANK
 Lab ID : CH77271 BLANK
 ALS Vial : 6 Sample Multiplier: 1

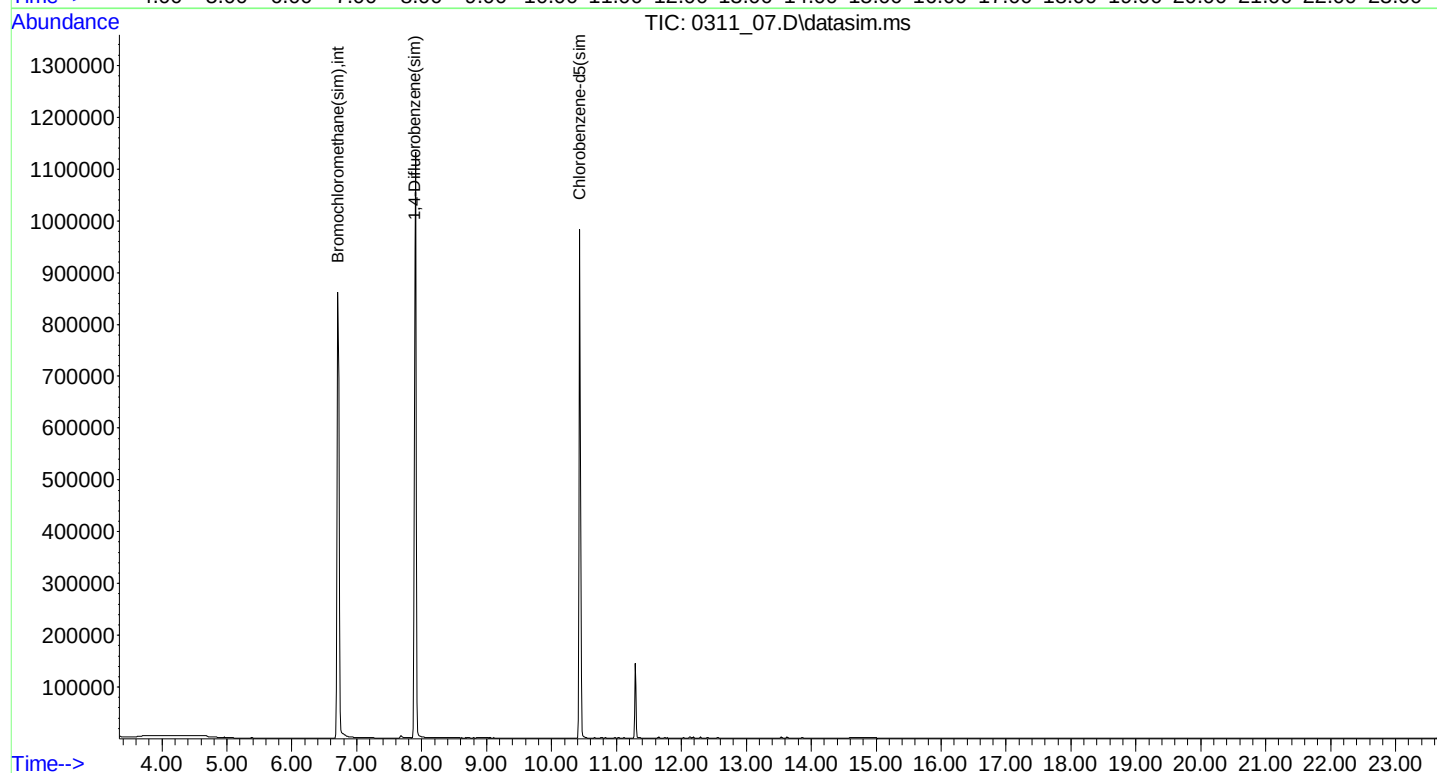
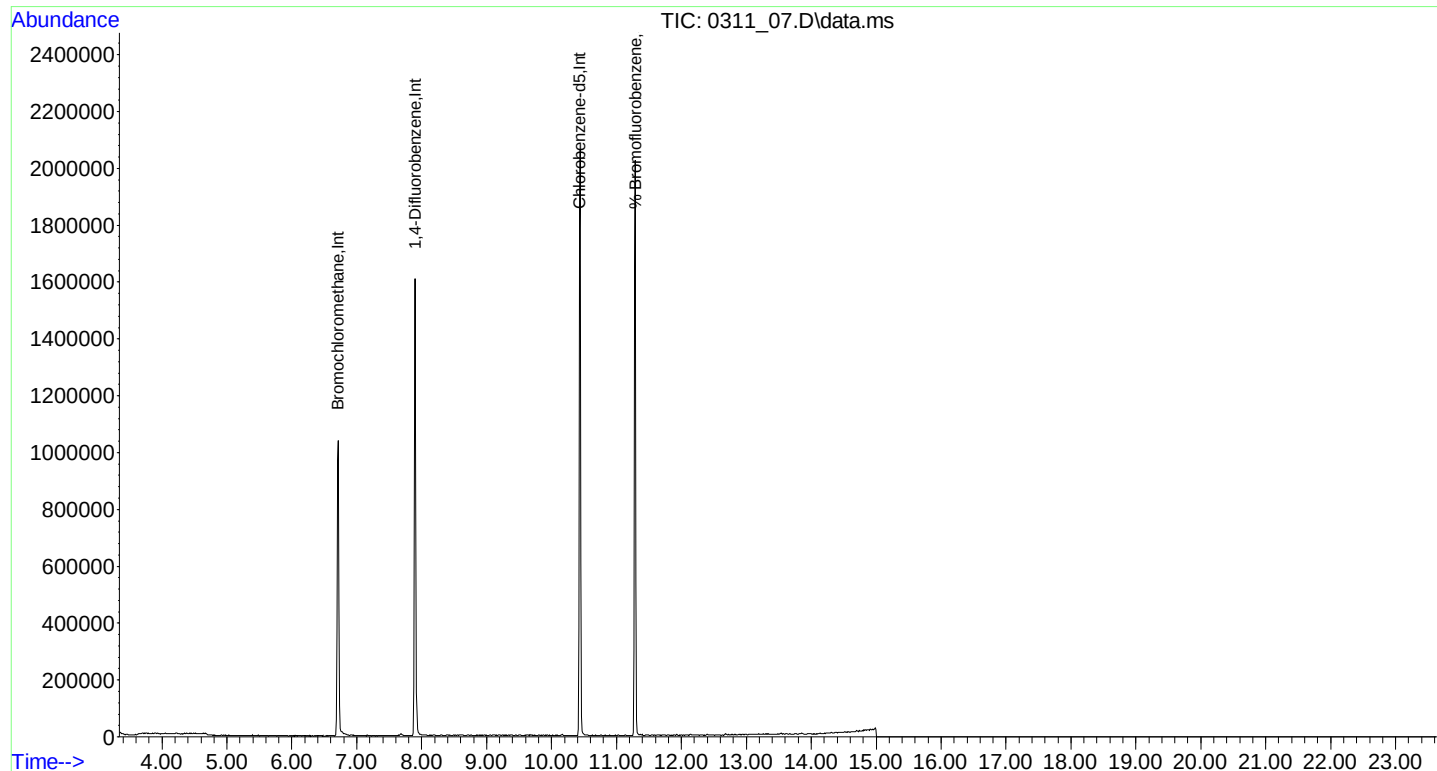
Quant Time: Mar 12 10:31:16 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 15:44:40 2021
 Response via : Initial Calibration

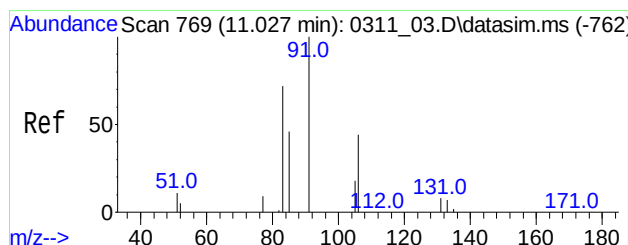
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.714	130	248887	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.900	114	941785	10.000	ng	0.00
54) Chlorobenzene-d5	10.440	82	437735	10.000	ng	0.00
81) Bromochloromethane(sim)	6.710	130	288175	10.000	ng	#-0.01
96) 1,4-Difluorobenzene(sim)	7.900	114	941785	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.440	82	437735	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.291	95	509693	10.081	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	= 100.80%	
Target Compounds						
109] 1,1,2,2-Tetrachloroeth...	11.030	83	597	0.008	ppbv#	Qvalue 93

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

Data Path : H:\AIR2021\CHEM20\03MAR\11\
Data File : 0311_07.D
Acq On : 11 Mar 2021 5:34 pm
Operator :
Client ID : CH77271 BLANK
Lab ID : CH77271 BLANK
ALS Vial : 6 Sample Multiplier: 1

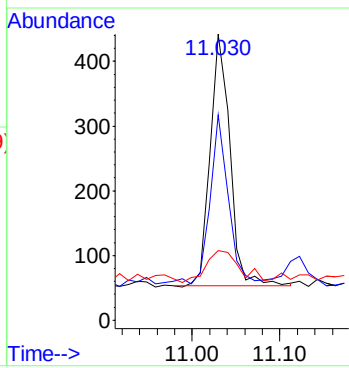
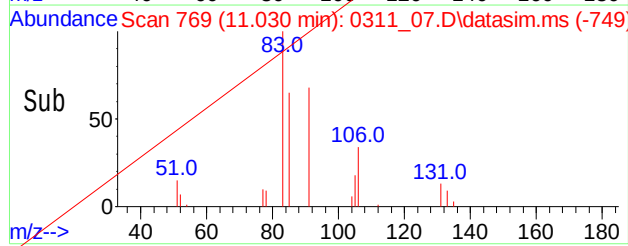
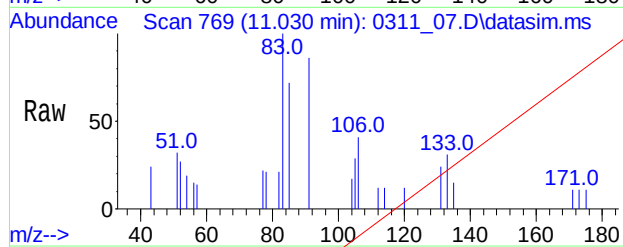
Quant Time: Mar 12 10:31:16 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Tue Mar 09 15:44:40 2021
Response via : Initial Calibration





#109
 1,1,2,2-Tetrachloroethane(sim)
 Conc: 8\$ Below Cal
 RT: 11.030 min Scan# 769
 Delta R.T. 0.000 min
 Lab File: 0311_07.D
 Acq: 11 Mar 2021 5:34 pm

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	597		
85	66.7	0.0	149.2	
131	22.3	9.0	13.6	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>ECMS</u>	Lab:	<u>Phoenix Env. Labs</u>	77271 0.5x dup
SDG No.:	<u>GCH77085</u>	Lab Sample ID:	<u>CH77271 DUP 0.5X</u>	
Canister:	<u>18111</u>	Lab File ID:	<u>0311_09.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>03/11/21</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>03/11/21</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
75-71-8	Dichlorodifluoromethane	0.376		0.250	0.250	r
74-87-3	Chloromethane	0.579		0.250	0.250	r
75-00-3	Chloroethane	0.250	U	0.250	0.250	r
75-69-4	Trichlorofluoromethane	0.683		0.250	0.250	r
75-09-2	Methylene Chloride	1.50	U	1.50	1.50	r
10061-02-6	trans-1,3-Dichloropropene	0.250	U	0.250	0.250	r
127-18-4	Tetrachloroethene	5.11		0.050	0.050	r
630-20-6	1,1,1,2-Tetrachloroethane	0.038	U	0.038	0.038	r
108-90-7	Chlorobenzene	0.100	U	0.100	0.100	r
75-01-4	Vinyl Chloride(sim)	0.010	U	0.010	0.010	r
74-83-9	Bromomethane(sim)	0.070	U	0.070	0.070	r
107-06-2	1,2-Dichloroethane(sim)	0.010	U	0.010	0.010	r
71-55-6	1,1,1-Trichloroethane(sim)	0.250	U	0.250	0.250	r
56-23-5	Carbon Tetrachloride(sim)	0.076		0.043	0.043	r
75-35-4	1,1-Dichloroethene(sim)	0.010	U	0.010	0.010	r
76-13-1	Trichlorotrifluoroethane(sim)	0.250	U	0.250	0.250	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.100	U	0.100	0.100	r
75-34-3	1,1-Dichloroethane(sim)	0.075	U	0.075	0.075	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.100	U	0.100	0.100	r
67-66-3	Chloroform(sim)	0.100	U	0.100	0.100	r
78-87-5	1,2-dichloropropane(sim)	0.010	U	0.010	0.010	r
75-27-4	Bromodichloromethane(sim)	0.010	U	0.010	0.010	r
79-01-6	Trichloroethene(sim)	0.025	U	0.025	0.025	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.050	U	0.050	0.050	r
79-00-5	1,1,2-Trichloroethane(sim)	0.010	U	0.010	0.010	r
124-48-1	Dibromochloromethane(sim)	0.010	U	0.010	0.010	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.010	U	0.010	0.010	r
75-25-2	Bromoform(sim)	0.075	U	0.075	0.075	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.010	U	0.010	0.010	r
541-73-1	1,3-Dichlorobenzene(sim)	0.050	U	0.050	0.050	r
106-46-7	1,4-Dichlorobenzene(sim)	0.040	U	0.040	0.040	r
95-50-1	1,2-Dichlorobenzene(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

Data Path : H:\AIR2021\CHEM20\03MAR\11\
 Data File : 0311_09.D
 Acq On : 11 Mar 2021 8:09 pm
 Operator :
 Client ID : 77271 0.5x dup
 Lab ID : CH77271 DUP
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 12 10:40:52 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Tue Mar 09 15:44:40 2021
 Response via : Initial Calibration

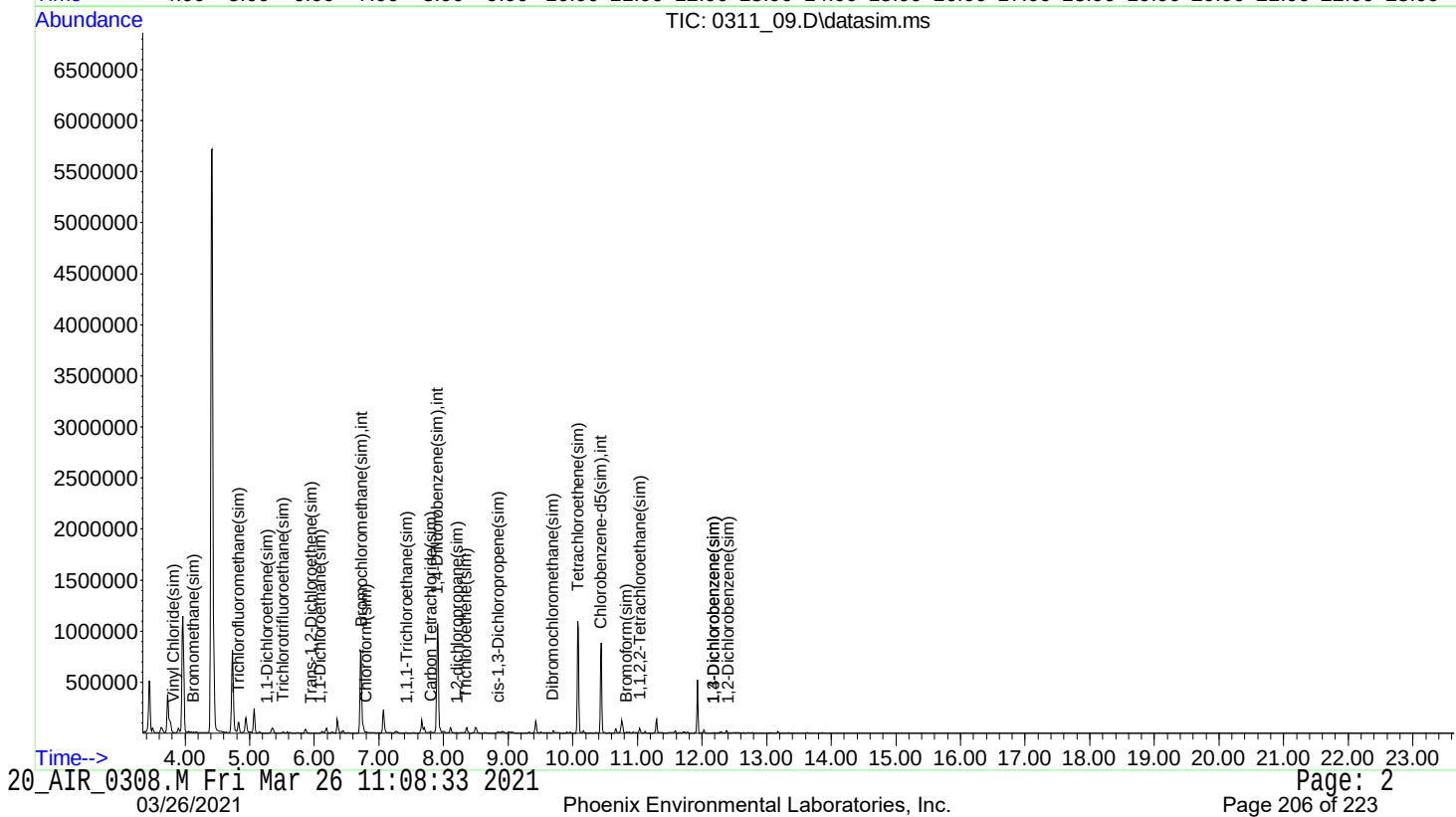
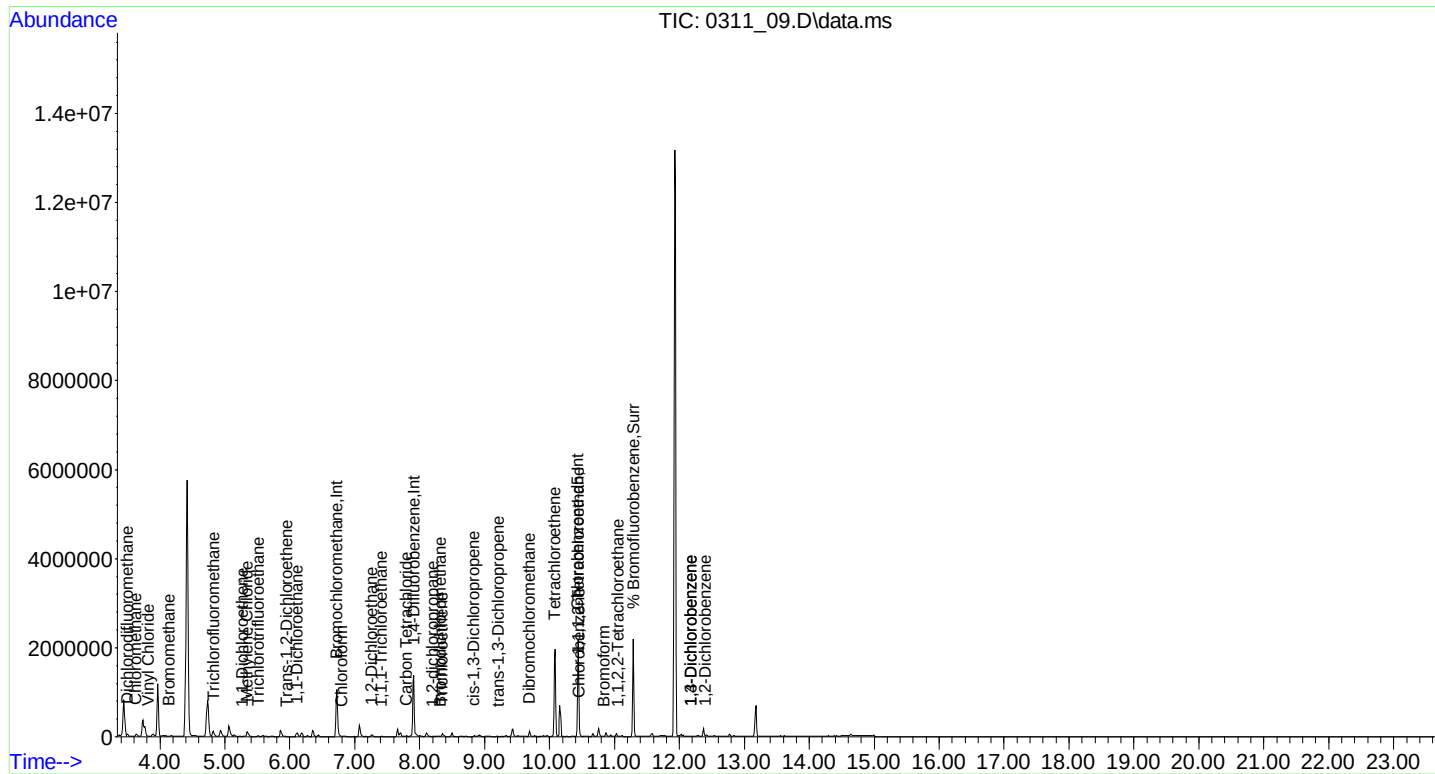
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.722	130	227023	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.909	114	894060	10.000	ng	0.00
54) Chlorobenzene-d5	10.438	82	418231	10.000	ng	0.00
81) Bromochloromethane(sim)	6.728	130	266053	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.909	114	894060	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.438	82	418231	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.288	95	491697	10.179	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.80%
Target Compounds						
3) Dichlorodifluoromethane	3.500	85	43024	0.752	ppbv	Qvalue 98
4) Chloromethane	3.629	50	50957	1.157	ppbv	87
13) Trichlorofluoromethane	4.825	101	97240	1.365	ppbv	96
17) Methylene Chloride	5.338	49	41406	0.702	ppbv	99
21) Trichlorotrifluoroethane	5.519	101	7068	0.140	ppbv	92
35) Carbon Tetrachloride	7.797	117	9710	0.164	ppbv	97
53) Tetrachloroethene	10.082	166	411000	10.219	ppbv	92
85] Trichlorofluoromethane...	4.831	101	107461	1.304	ppbv#	98
89] Carbon Tetrachloride(sim)	7.803	117	10368	0.150	ppbv	100
105] Tetrachloroethene(sim)	10.078	166	481895	9.730	ppbv	99

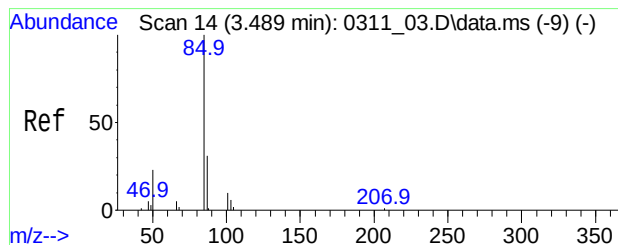
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

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Data File   : 0311_09.D  
Acq On      : 11 Mar 2021    8:09 pm  
Operator     :  
Client ID    : 77271 0.5x dup  
Lab ID       : CH77271 DUP  
ALS Vial     : 8    Sample Multiplier: 1
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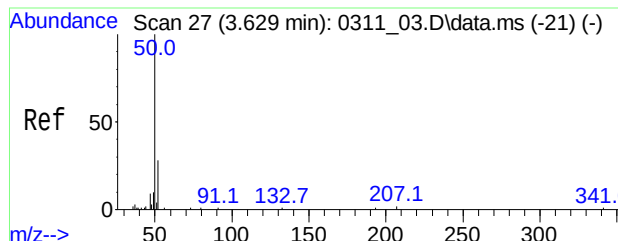
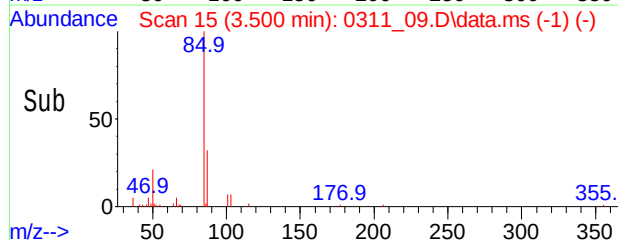
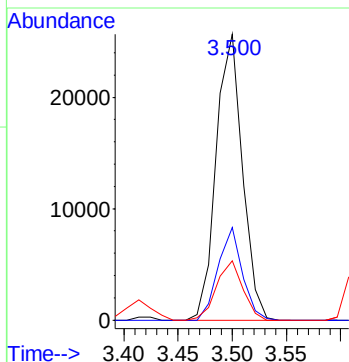
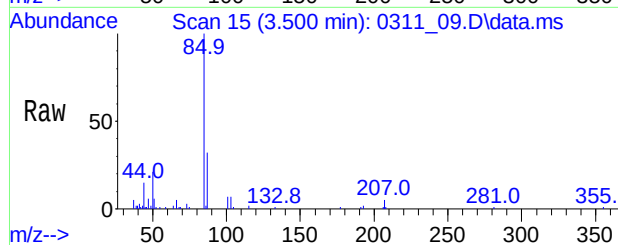
Quant Time: Mar 12 10:40:52 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0308.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Mar 09 15:44:40 2021
Response via : Initial Calibration





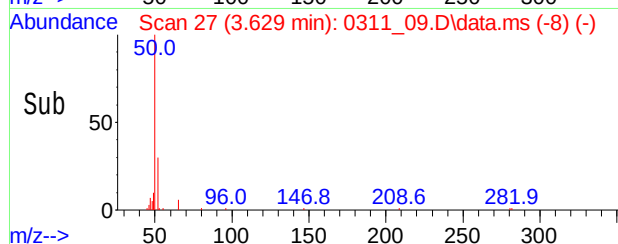
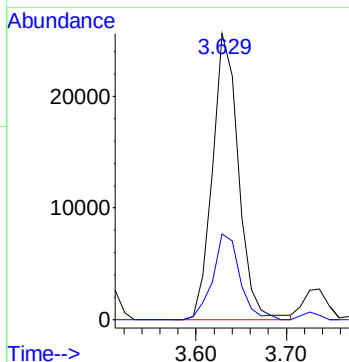
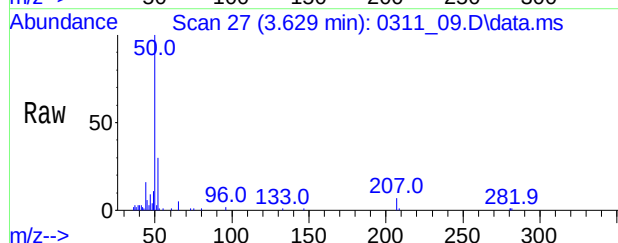
#3
Dichlorodifluoromethane
Conc: 8\$ 0.752 ppbv
RT: 3.500 min Scan# 15
Delta R.T. 0.011 min
Lab File: 0311_09.D
Acq: 11 Mar 2021 8:09 pm

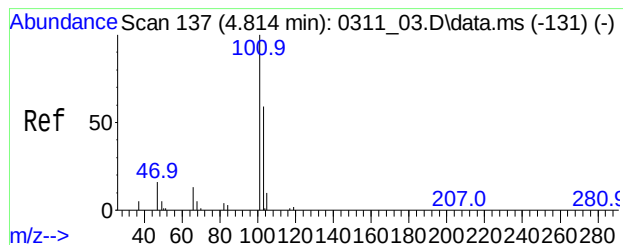
Tgt Ion	85	Resp	43024
Ion Ratio	Lower	Upper	
85	100		
87	30.0	25.6	38.4
50	20.8	16.7	25.1



#4
Chloromethane
Conc: 8\$ 1.157 ppbv
RT: 3.629 min Scan# 27
Delta R.T. -0.000 min
Lab File: 0311_09.D
Acq: 11 Mar 2021 8:09 pm

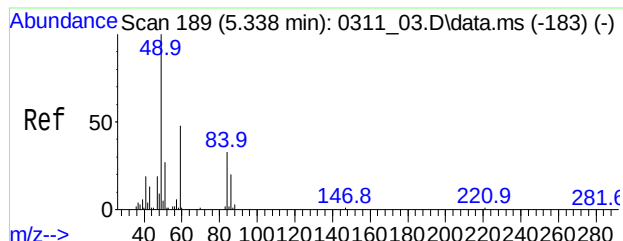
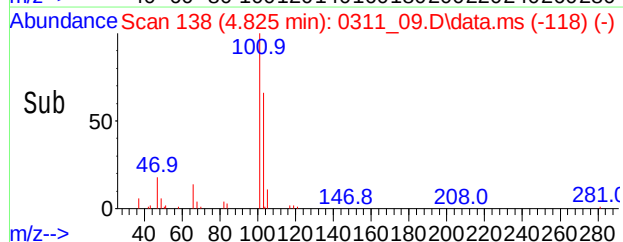
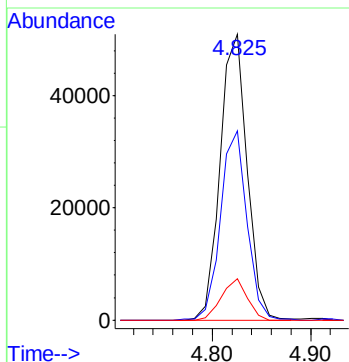
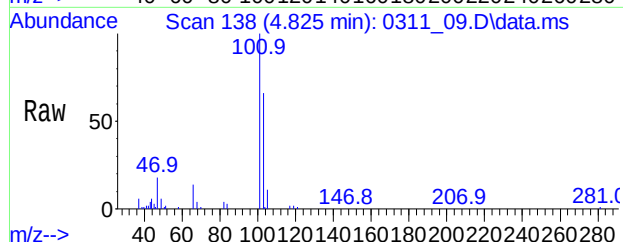
Tgt Ion	50	Resp	50957
Ion Ratio	Lower	Upper	
50	100		
52	31.1	19.1	59.1





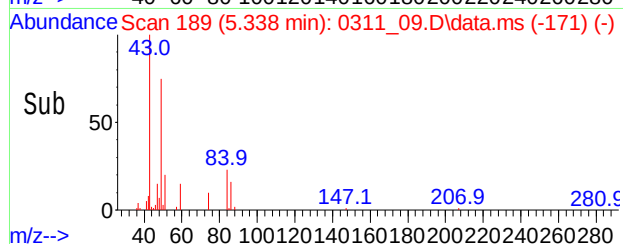
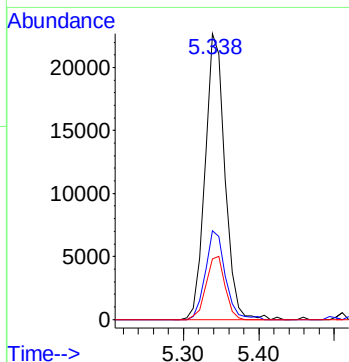
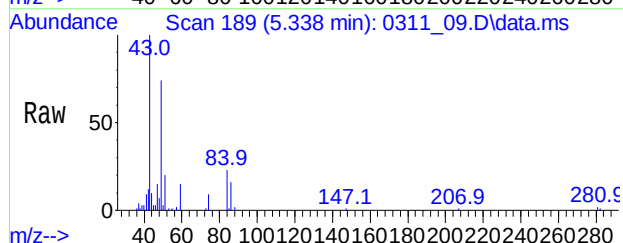
#13
Trichlorofluoromethane
Conc: 8\$ 1.365 ppbv
RT: 4.825 min Scan# 138
Delta R.T. 0.011 min
Lab File: 0311_09.D
Acq: 11 Mar 2021 8:09 pm

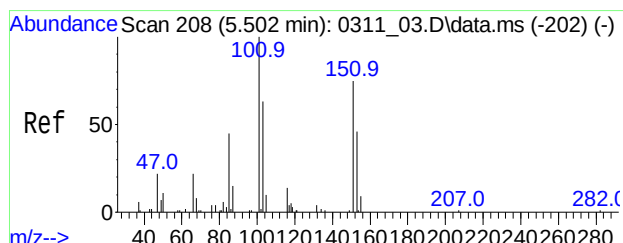
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.9	49.3	73.9
66	13.8	12.3	18.5



#17
Methylene Chloride
Conc: 8\$ 0.702 ppbv
RT: 5.338 min Scan# 189
Delta R.T. 0.008 min
Lab File: 0311_09.D
Acq: 11 Mar 2021 8:09 pm

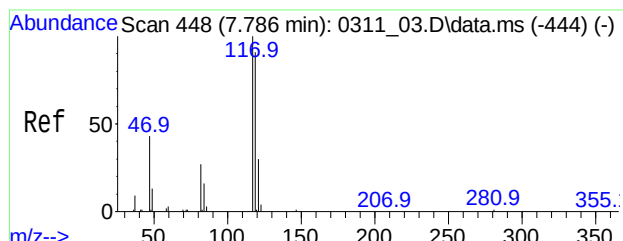
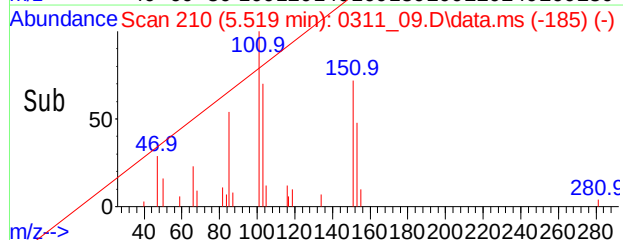
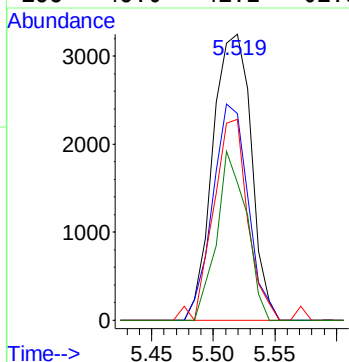
Tgt Ion	Ratio	Lower	Upper
49	100		
84	31.2	25.0	37.4
86	21.2	16.2	24.4





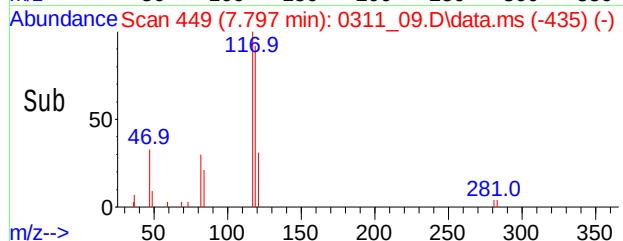
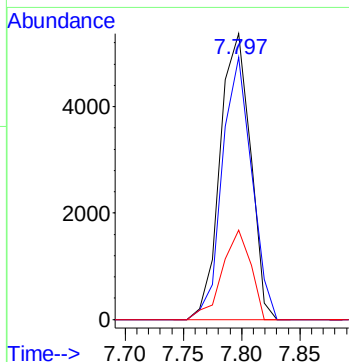
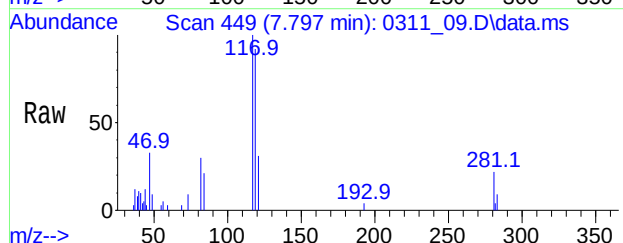
#21
Trichlorotrifluoroethane
Conc: 8\$ Below Cal
RT: 5.519 min Scan# 210
Delta R.T. 0.017 min
Lab File: 0311_09.D
Acq: 11 Mar 2021 8:09 pm

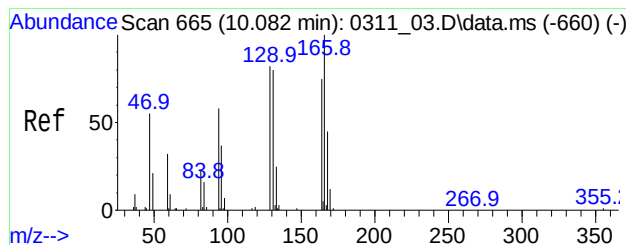
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	7068		
151	69.6	58.9	88.3	
103	62.8	58.4	87.6	
153	45.6	41.2	61.8	



#35
Carbon Tetrachloride
Conc: 8\$ 0.164 ppbv
RT: 7.797 min Scan# 449
Delta R.T. 0.009 min
Lab File: 0311_09.D
Acq: 11 Mar 2021 8:09 pm

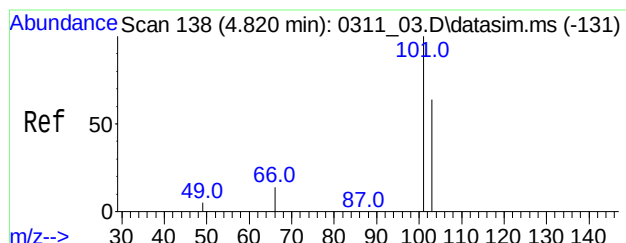
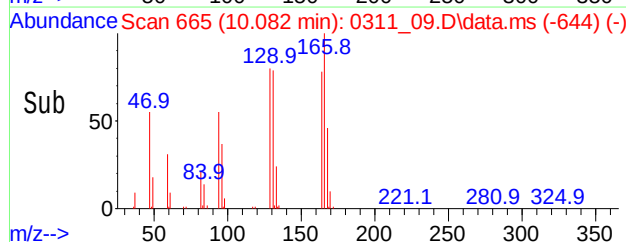
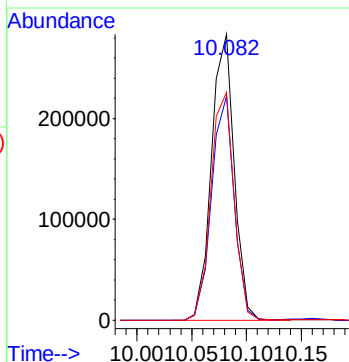
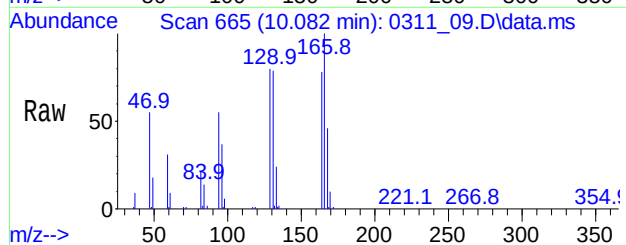
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	9710		
119	89.1	67.3	107.3	
121	29.5	13.7	53.7	





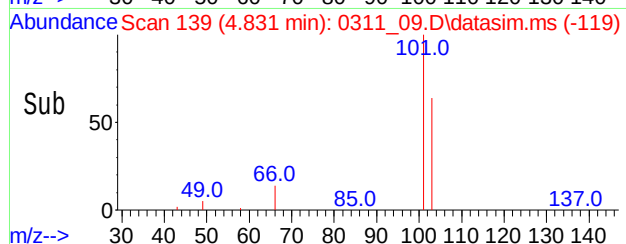
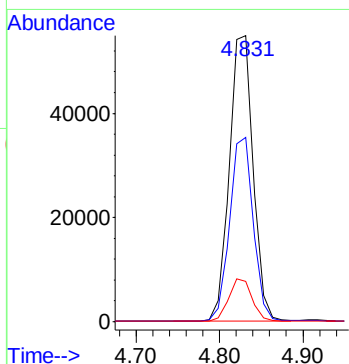
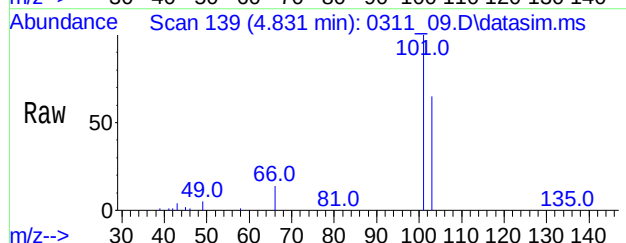
#53
Tetrachloroethene
Conc: 8\$ 10.219 ppbv
RT: 10.082 min Scan# 665
Delta R.T. 0.007 min
Lab File: 0311_09.D
Acq: 11 Mar 2021 8:09 pm

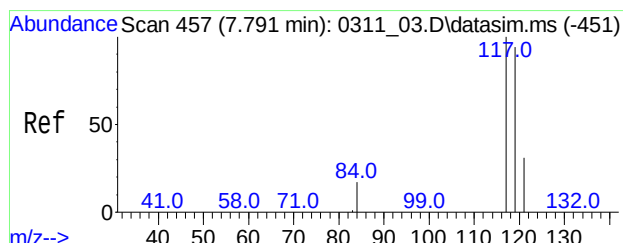
Tgt	Ion	Ratio	Resp	Lower	Upper
166	100		411000		
164	77.9	58.9		88.3	
129	81.5	57.7		86.5	



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 1.304 ppbv
RT: 4.831 min Scan# 139
Delta R.T. 0.011 min
Lab File: 0311_09.D
Acq: 11 Mar 2021 8:09 pm

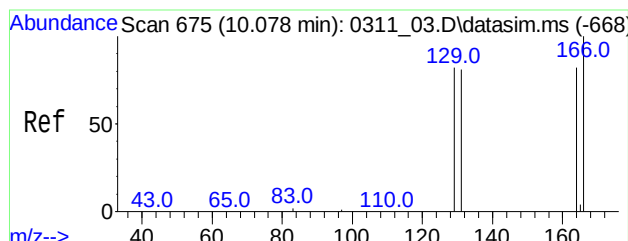
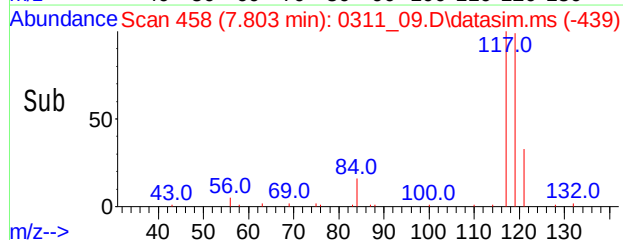
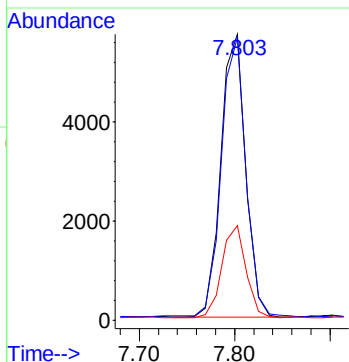
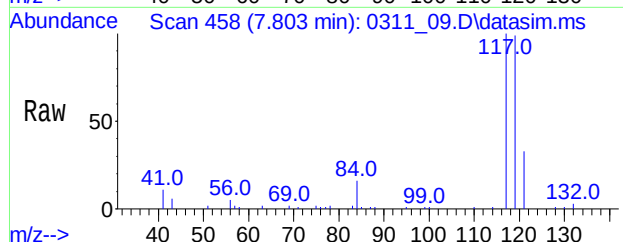
Tgt	Ion	Ratio	Resp	Lower	Upper
101	100		107461		
103	63.8	50.5		75.7	
66	14.5	16.5		16.5#	





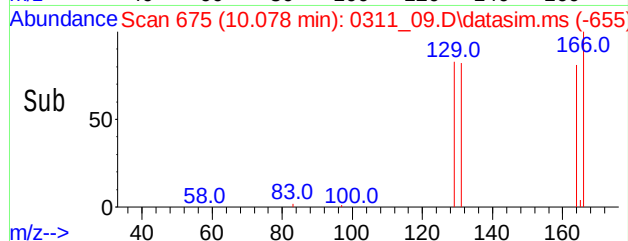
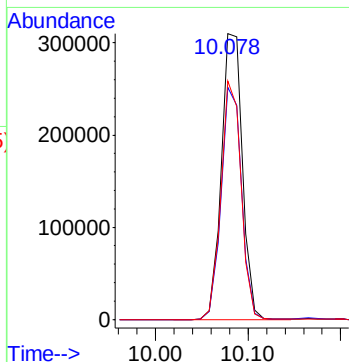
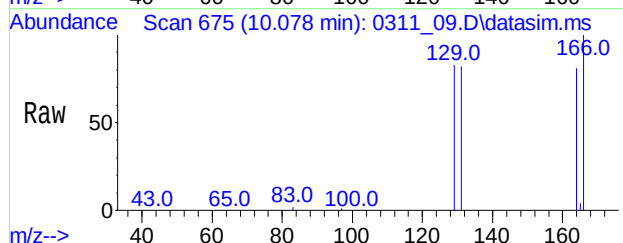
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.150 ppbv
RT: 7.803 min Scan# 458
Delta R.T. 0.009 min
Lab File: 0311_09.D
Acq: 11 Mar 2021 8:09 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	10368		
119	97.5	77.8	116.6	
121	31.8	25.8	38.6	



#105
Tetrachloroethene(sim)
Conc: 8\$ 9.730 ppbv
RT: 10.078 min Scan# 675
Delta R.T. -0.002 min
Lab File: 0311_09.D
Acq: 11 Mar 2021 8:09 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	481895		
164	78.5	60.4	100.4	
129	79.5	59.0	99.0	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2093

Client:	ECMS	Lab:	Phoenix Env. Labs
SDG No.:	GCH77085	Lab Sample ID:	CANISTER BLK 2093
Canister:	CANBL	Lab File ID:	0215_06.D
Instrument:	CHEM24	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
74-87-3	Chloromethane	0.200	U	0.200	0.200	r
75-00-3	Chloroethane	0.200	U	0.200	0.200	r
75-09-2	Methylene Chloride	0.500	U	0.500	0.500	r
10061-02-6	trans-1,3-Dichloropropene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
75-01-4	Vinyl Chloride(sim)	0.100	U	0.100	0.100	r
74-83-9	Bromomethane(sim)	0.150	U	0.150	0.150	r
75-69-4	Trichlorofluoromethane(sim)	0.200	U	0.200	0.200	r
71-55-6	1,1,1-Trichloroethane(sim)	0.200	U	0.500	0.200	r
56-23-5	Carbon Tetrachloride(sim)	0.086	U	0.086	0.086	r
75-35-4	1,1-Dichloroethene(sim)	0.200	U	0.200	0.200	r
76-13-1	Trichlorotrifluoroethane(sim)	0.200	U	0.200	0.200	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
75-34-3	1,1-Dichloroethane(sim)	0.200	U	0.200	0.200	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
107-06-2	1,2-Dichloroethane(sim)	0.022	U	0.022	0.022	r
78-87-5	1,2-dichloropropane(sim)	0.027	U	0.027	0.027	r
75-27-4	Bromodichloromethane(sim)	0.020	U	0.020	0.020	r
79-01-6	Trichloroethene(sim)	0.075	U	0.075	0.075	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.200	U	0.200	0.200	r
79-00-5	1,1,2-Trichloroethane(sim)	0.027	U	0.027	0.027	r
124-48-1	Dibromochloromethane(sim)	0.020	U	0.020	0.020	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.020	U	0.020	0.020	r
127-18-4	Tetrachloroethene(sim)	0.200	U	0.200	0.200	r
75-25-2	Bromoform(sim)	0.200	U	0.200	0.200	r
630-20-6	1,1,1,2-Tetrachloroethane(sim)	0.200	U	0.500	0.200	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.020	U	0.020	0.020	r
541-73-1	1,3-Dichlorobenzene(sim)	0.100	U	0.100	0.100	r
106-46-7	1,4-Dichlorobenzene(sim)	0.080	U	0.080	0.080	r
95-50-1	1,2-Dichlorobenzene(sim)	0.100	U	0.100	0.100	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:\AIR2021\CHEM24\02FEB\14\
 Data File : 0215_06.D
 Acq On : 15 Feb 2021 3:18 pm
 Operator : Keith
 Client ID : CANISTER BLK 2093
 Lab ID : CANISTER BLK 2093
 ALS Vial : 67 Sample Multiplier: 1

Quant Time: Feb 16 10:10:45 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0211.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Feb 15 11:29:08 2021
 Response via : Initial Calibration

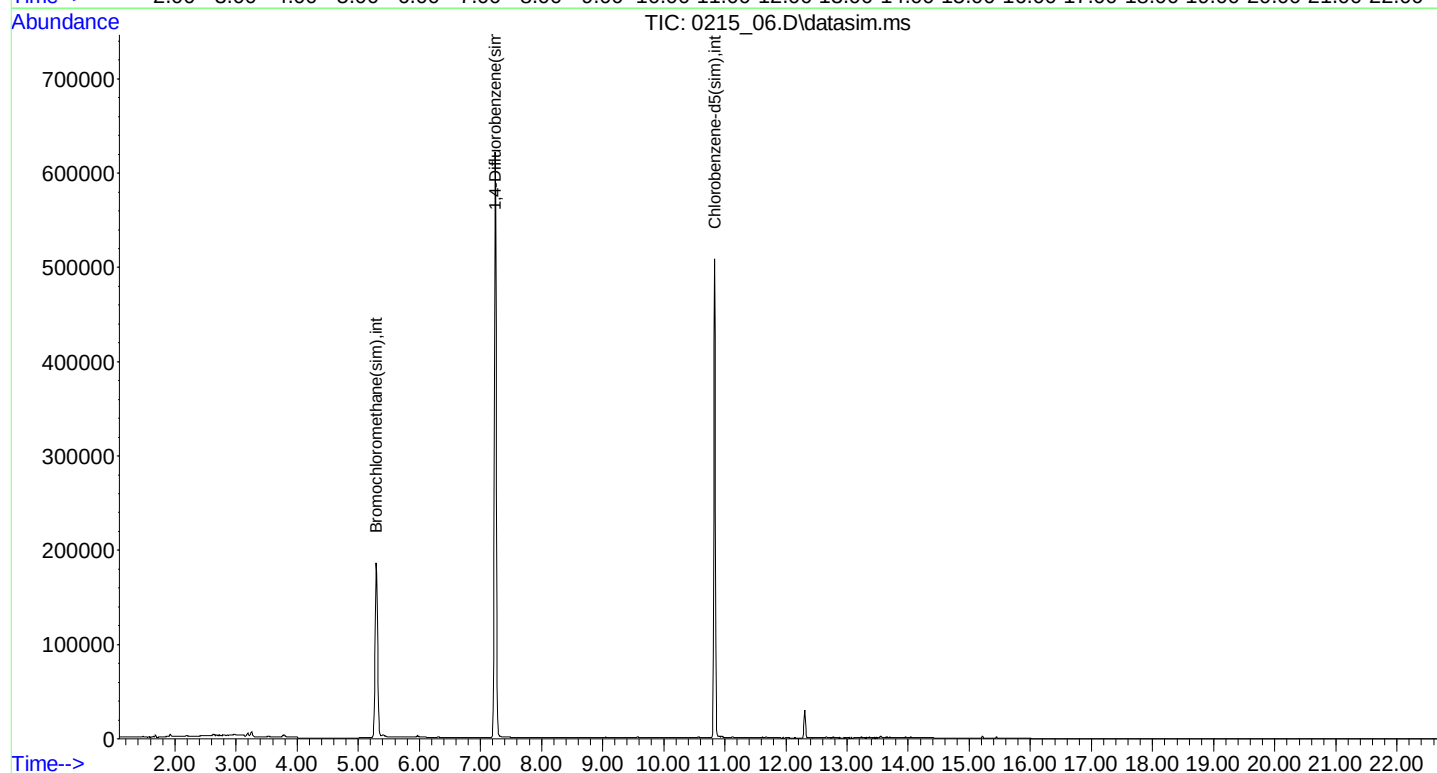
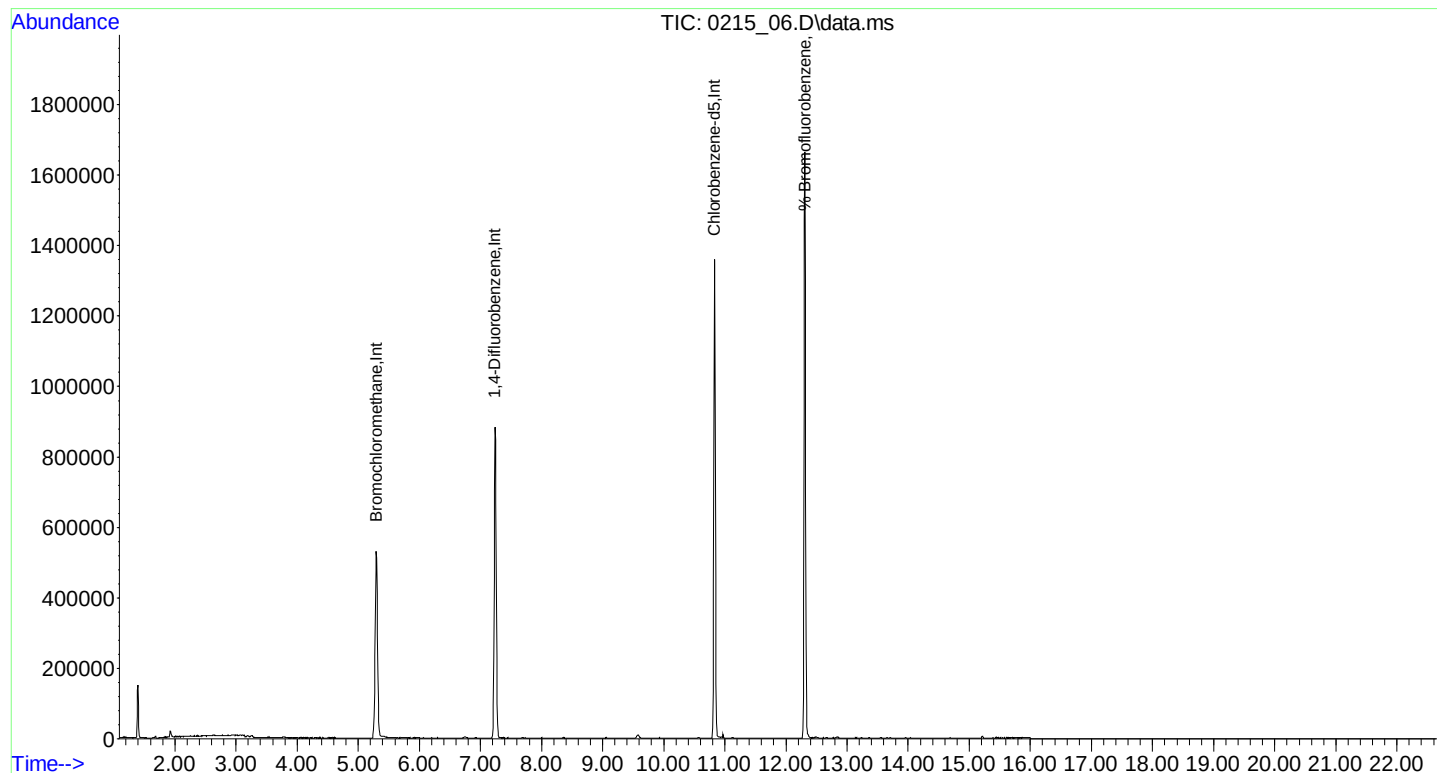
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.294	130	262799	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.238	114	869211	10.000	ng	0.00
53) Chlorobenzene-d5	10.829	82	380971	10.000	ng	0.00
80) Bromochloromethane(sim)	5.296	130	266261	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.238	114	869211	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.829	82	380971	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.309	95	530823	9.924	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.20%

Target Compounds	Qvalue

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

Data Path : H:\AIR2021\CHEM24\02FEB\14\
Data File : 0215_06.D
Acq On : 15 Feb 2021 3:18 pm
Operator : Keith
Client ID : CANISTER BLK 2093
Lab ID : CANISTER BLK 2093
ALS Vial : 67 Sample Multiplier: 1

Quant Time: Feb 16 10:10:45 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0211.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Feb 15 11:29:08 2021
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2095

Client:	<u>ECMS</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCH77085</u>	Lab Sample ID:	<u>CANISTER BLK 2095</u>
Canister:	<u>CANBL</u>	Lab File ID:	<u>0217_07.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u></u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u></u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>02/17/21</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
74-87-3	Chloromethane	0.200	U	0.200	0.200	r
75-00-3	Chloroethane	0.200	U	0.200	0.200	r
75-09-2	Methylene Chloride	0.500	U	0.500	0.500	r
10061-02-6	trans-1,3-Dichloropropene	0.200	U	0.200	0.200	r
630-20-6	1,1,1,2-Tetrachloroethane	0.200	U	0.500	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
75-01-4	Vinyl Chloride(sim)	0.100	U	0.100	0.100	r
74-83-9	Bromomethane(sim)	0.150	U	0.150	0.150	r
75-69-4	Trichlorofluoromethane(sim)	0.200	U	0.200	0.200	r
107-06-2	1,2-Dichloroethane(sim)	0.022	U	0.022	0.022	r
71-55-6	1,1,1-Trichloroethane(sim)	0.200	U	0.500	0.200	r
56-23-5	Carbon Tetrachloride(sim)	0.086	U	0.086	0.086	r
75-35-4	1,1-Dichloroethene(sim)	0.200	U	0.200	0.200	r
76-13-1	Trichlorotrifluoroethane(sim)	0.200	U	0.200	0.200	r
156-60-5	Trans-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
75-34-3	1,1-Dichloroethane(sim)	0.200	U	0.200	0.200	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.200	U	0.200	0.200	r
67-66-3	Chloroform(sim)	0.200	U	0.200	0.200	r
78-87-5	1,2-dichloropropane(sim)	0.027	U	0.027	0.027	r
75-27-4	Bromodichloromethane(sim)	0.020	U	0.020	0.020	r
79-01-6	Trichloroethene(sim)	0.075	U	0.075	0.075	r
10061-01-5	cis-1,3-Dichloropropene(sim)	0.200	U	0.200	0.200	r
79-00-5	1,1,2-Trichloroethane(sim)	0.027	U	0.027	0.027	r
124-48-1	Dibromochloromethane(sim)	0.020	U	0.020	0.020	r
106-93-4	1,2-Dibromoethane(EDB)(sim)	0.020	U	0.020	0.020	r
127-18-4	Tetrachloroethene(sim)	0.200	U	0.200	0.200	r
75-25-2	Bromoform(sim)	0.200	U	0.200	0.200	r
79-34-5	1,1,2,2-Tetrachloroethane(sim)	0.020	U	0.020	0.020	r
541-73-1	1,3-Dichlorobenzene(sim)	0.100	U	0.100	0.100	r
106-46-7	1,4-Dichlorobenzene(sim)	0.080	U	0.080	0.080	r
95-50-1	1,2-Dichlorobenzene(sim)	0.100	U	0.100	0.100	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:\AIR2021\CHEM20\02FEB\17\
 Data File : 0217_07.D
 Acq On : 17 Feb 2021 6:49 pm
 Operator :
 Client ID : CANISTER BLK 2095
 Lab ID : CANISTER BLK 2095
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 18 09:58:34 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0211.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Feb 12 09:00:46 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.725	130	260111	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.911	114	932533	10.000	ng	0.00
54) Chlorobenzene-d5	10.440	82	410706	10.000	ng	0.00
81) Bromochloromethane(sim)	6.720	130	292698	10.000	ng	#-0.01
96) 1,4-Difluorobenzene(sim)	7.911	114	932533	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.440	82	410706	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.291	95	492272	9.797	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.00%

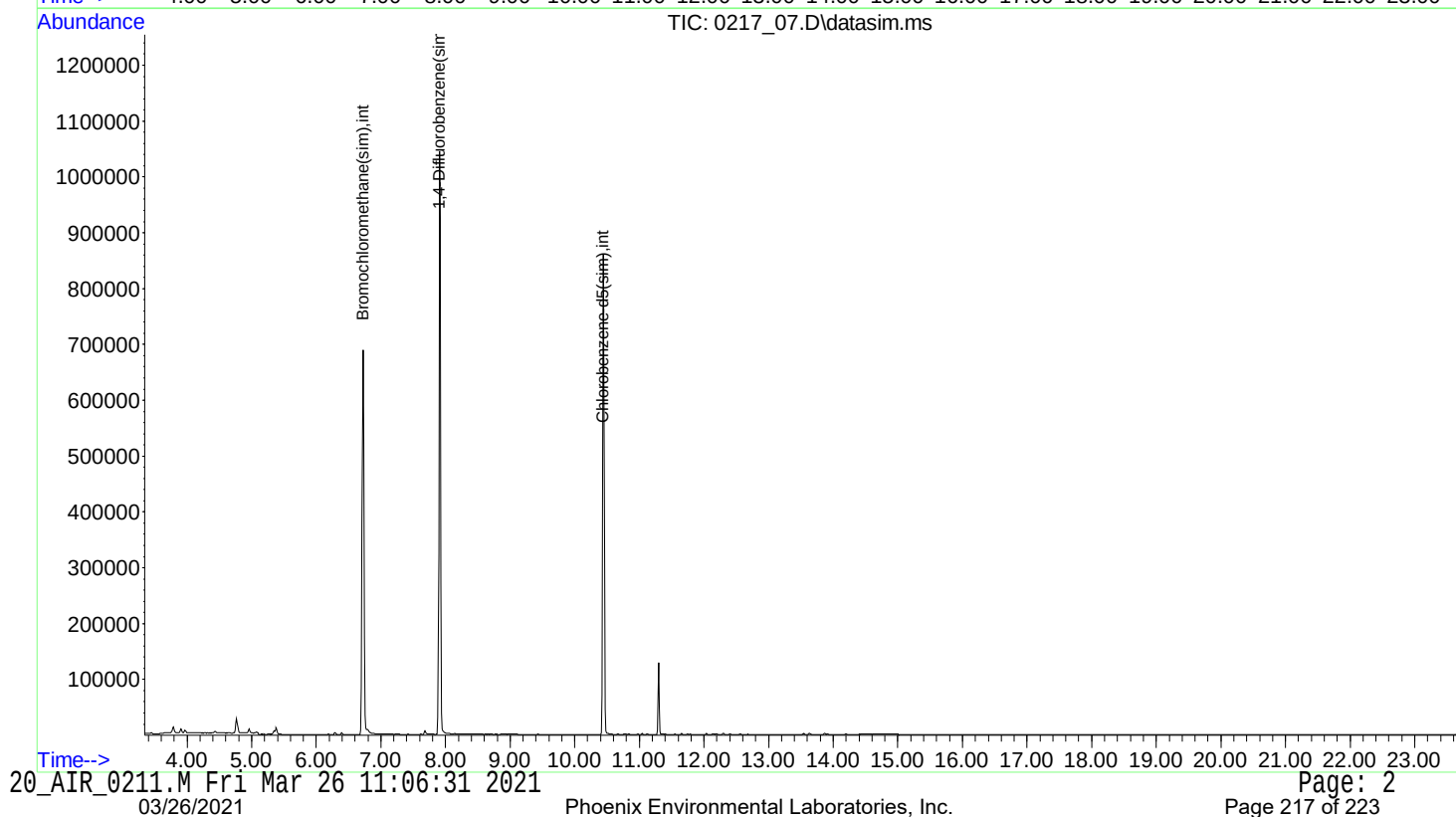
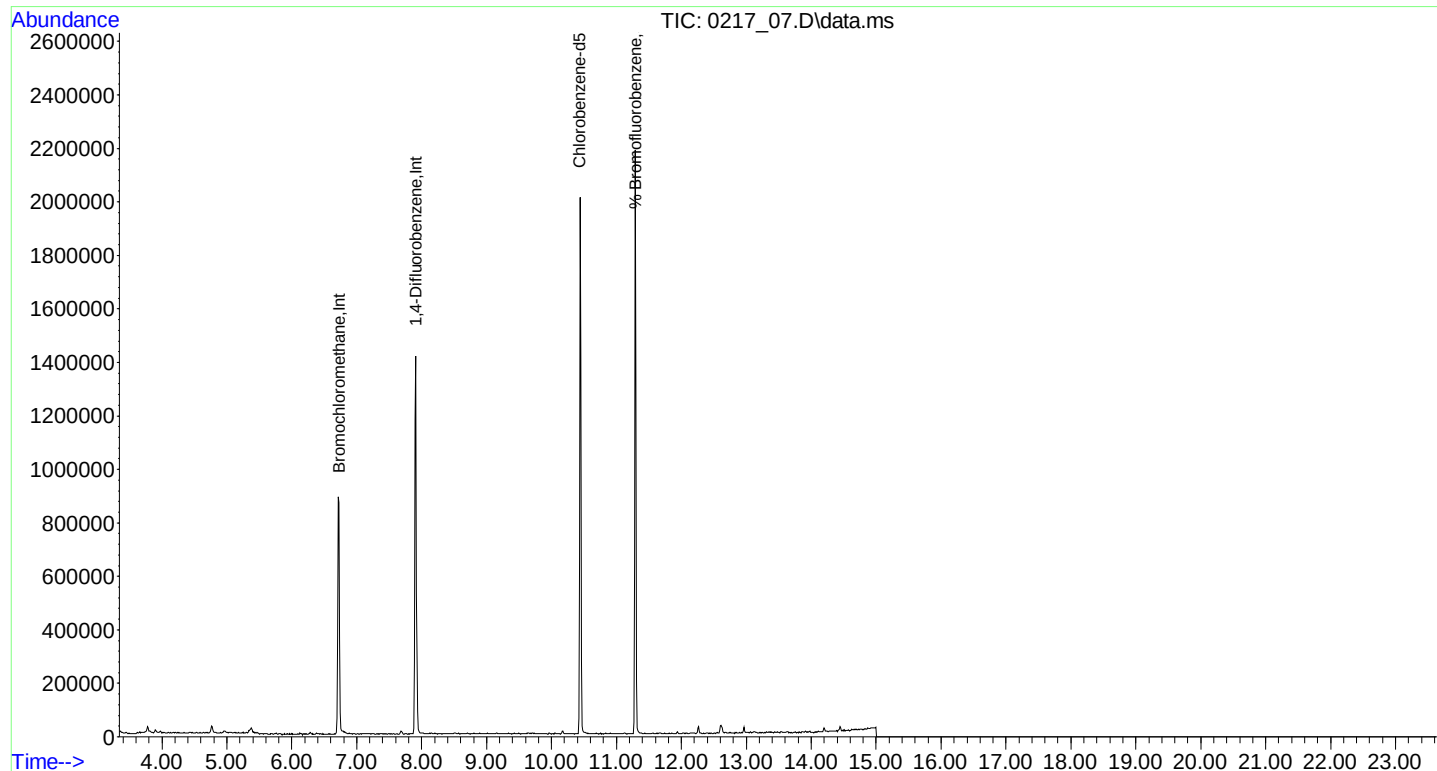
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2021\CHEM20\02FEB\17\
 Data File : 0217_07.D
 Acq On : 17 Feb 2021 6:49 pm
 Operator :
 Client ID : CANISTER BLK 2095
 Lab ID : CANISTER BLK 2095
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 18 09:58:34 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0211.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Feb 12 09:00:46 2021
 Response via : Initial Calibration



Injection Log

Data Directory: H:\AIR2021\CHEM20\03MAR\08A\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	4	0308_01.D	XXXXXXXXXX		03/08/21 15:47
2)	5	0308_02.D	XXXXXXXXXX		03/08/21 16:22
3)	6	0308_03.D	BFB TUNE	0/0	03/08/21 16:57
4)	3	0308_04.D	ICAL 0.02	0.02	03/08/21 17:33
5)	4	0308_05.D	ICAL 0.035	0.035	03/08/21 18:09
6)	5	0308_06.D	ICAL 0.05	0.05	03/08/21 18:45
7)	6	0308_07.D	ICAL 0.1	0.10	03/08/21 19:21
8)	7	0308_08.D	ICAL 0.2	0.2	03/08/21 19:58
9)	8	0308_09.D	ICAL 0.5	0.50	03/08/21 20:36
10)	9	0308_10.D	ICAL 2.5	2.5	03/08/21 21:15
11)	10	0308_11.D	ICAL 5	5.0	03/08/21 21:51
12)	11	0308_12.D	ICAL 25	25	03/08/21 22:30
13)	12	0308_13.D	ICAL 40	40	03/08/21 23:10
14)	13	0308_14.D	XXXXXXXXXX		03/08/21 23:44
15)	14	0308_15.D	ICAL 1	1.0ppb cc	03/09/21 0:21
16)	15	0308_16.D	ICAL 10	10ppb cc	03/09/21 0:58
17)	16	0308_17.D	XXXXXXXXXX		03/09/21 1:37
18)	17	0308_18.D	XXXXXXXXXX		03/09/21 2:12
19)	18	0308_19.D	XXXXXXXXXX		03/09/21 2:47

Injection Log

Data Directory: H:\AIR2021\CHEM20\02FEB\17\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0217_30.D	XXXXXXXXXX		N/A
2)	1	0217_01.D	XXXXXXXXXX		02/17/21 15:09
3)	2	0217_02.D	XXXXXXXXXX		02/17/21 15:46
4)	3	0217_03.D	XXXXXXXXXX		02/17/21 16:23
5)	3	0217_04.D	XXXXXXXXXX		02/17/21 17:01
6)	5	0217_05.D	XXXXXXXXXX		02/17/21 17:36
7)	6	0217_06.D	XXXXXXXXXX		02/17/21 18:11
8)	7	0217_07.D	CANISTER BLK 2095	CANISTER BLK 2095	02/17/21 18:49
9)	8	0217_08.D	XXXXXXXXXX		02/17/21 19:28
10)	9	0217_09.D	XXXXXXXXXX		02/17/21 20:09
11)	10	0217_10.D	XXXXXXXXXX		02/17/21 20:51
12)	11	0217_11.D	XXXXXXXXXX		02/17/21 21:31
13)	12	0217_12.D	XXXXXXXXXX		02/17/21 22:09
14)	13	0217_13.D	XXXXXXXXXX		02/17/21 22:46
15)	14	0217_14.D	XXXXXXXXXX		02/17/21 23:24
16)	15	0217_15.D	XXXXXXXXXX		02/18/21 0:01
17)	16	0217_16.D	XXXXXXXXXX		02/18/21 0:38
18)	17	0217_17.D	XXXXXXXXXX		02/18/21 1:16
19)	18	0217_18.D	XXXXXXXXXX		02/18/21 1:53
20)	19	0217_19.D	XXXXXXXXXX		02/18/21 2:30
21)	20	0217_20.D	XXXXXXXXXX		02/18/21 3:08
22)	21	0217_21.D	XXXXXXXXXX		02/18/21 3:45
23)	22	0217_22.D	XXXXXXXXXX		02/18/21 4:25
24)	23	0217_23.D	XXXXXXXXXX		02/18/21 7:19
25)	24	0217_24.D	XXXXXXXXXX		02/18/21 7:59
26)	25	0217_25.D	XXXXXXXXXX		02/18/21 8:40
27)	26	0217_26.D	XXXXXXXXXX		02/18/21 9:20
28)	27	0217_27.D	XXXXXXXXXX		02/18/21 10:03
29)	28	0217_28.D	XXXXXXXXXX		02/18/21 10:40
30)	29	0217_29.D	XXXXXXXXXX		02/18/21 12:11

Injection Log

Data Directory: H:\AIR2021\CHEM20\03MAR\11\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	1	0311_01.D	XXXXXXXXXX		03/11/21 13:51
2)	2	0311_02.D	XXXXXXXXXX		03/11/21 14:28
3)	2	0311_03.D	BFB TUNE - CCAL 1	1.0ppb cc - 1.0ppb	03/11/21 15:09
4)	3	0311_04.D	XXXXXXXXXX		03/11/21 15:46
5)	4	0311_05.D	CH77271 LCS	CH77271 LCS	03/11/21 16:25
6)	5	0311_06.D	XXXXXXXXXX		03/11/21 17:00
7)	6	0311_07.D	CH77271 BLANK	CH77271 BLANK	03/11/21 17:34
8)	7	0311_08.D	CH77271 QC	CH77271 QC	03/11/21 19:18
9)	8	0311_09.D	77271 0.5x dup	CH77271 DUP	03/11/21 20:09
10)	9	0311_10.D	XXXXXXXXXX		03/11/21 20:49
11)	10	0311_11.D	XXXXXXXXXX		03/11/21 21:29
12)	11	0311_12.D	XXXXXXXXXX		03/11/21 22:08
13)	12	0311_13.D	IA-1	CH77085	03/11/21 22:48
14)	13	0311_14.D	AA-1	CH77088	03/11/21 23:28
15)	14	0311_15.D	XXXXXXXXXX		03/12/21 0:05
16)	15	0311_16.D	XXXXXXXXXX		03/12/21 0:43
17)	16	0311_17.D	XXXXXXXXXX		03/12/21 1:20
18)	17	0311_18.D	XXXXXXXXXX		03/12/21 1:57
19)	18	0311_19.D	XXXXXXXXXX		03/12/21 2:35
20)	19	0311_20.D	XXXXXXXXXX		03/12/21 3:12
21)	20	0311_21.D	XXXXXXXXXX		03/12/21 3:49
22)	21	0311_22.D	XXXXXXXXXX		03/12/21 4:27
23)	22	0311_23.D	XXXXXXXXXX		03/12/21 5:04
24)	23	0311_24.D	XXXXXXXXXX		03/12/21 5:41
25)	24	0311_25.D	XXXXXXXXXX		03/12/21 6:18
26)	25	0311_26.D	XXXXXXXXXX		03/12/21 6:56
27)	26	0311_27.D	XXXXXXXXXX		03/12/21 7:46
28)	27	0311_28.D	XXXXXXXXXX		03/12/21 8:26
29)	28	0311_29.D	XXXXXXXXXX		03/12/21 9:06
30)	29	0311_30.D	XXXXXXXXXX		03/12/21 9:46
31)	30	0311_31.D	XXXXXXXXXX		03/12/21 10:26
32)	31	0311_32.D	XXXXXXXXXX		03/12/21 11:06
33)	32	0311_33.D	XXXXXXXXXX		03/12/21 11:43
34)	33	0311_34.D	XXXXXXXXXX		03/12/21 12:20

Injection Log

Data Directory: H:\AIR2021\CHEM24\02FEB\14\

Line	VL	FileName	SampleName	MiscInfo	Injection Time
1)	0	0214_04.D	XXXXXXXXXX		N/A
2)	45	0214_01.D	XXXXXXXXXX		02/14/21 10:55
3)	46	0214_02.D	XXXXXXXXXX		02/14/21 11:25
4)	46	0214_03.D	XXXXXXXXXX		02/14/21 12:15
5)	45	0214_05.D	XXXXXXXXXX		02/14/21 13:55
6)	46	0214_06.D	XXXXXXXXXX		02/14/21 14:22
7)	46	0214_07.D	XXXXXXXXXX		02/14/21 14:50
8)	47	0214_08.D	XXXXXXXXXX		02/14/21 15:18
9)	48	0214_09.D	XXXXXXXXXX		02/14/21 15:46
10)	49	0214_10.D	XXXXXXXXXX		02/14/21 16:14
11)	50	0214_11.D	XXXXXXXXXX		02/14/21 16:42
12)	51	0214_12.D	XXXXXXXXXX		02/14/21 17:12
13)	52	0214_13.D	XXXXXXXXXX		02/14/21 17:45
14)	53	0214_14.D	XXXXXXXXXX		02/14/21 18:17
15)	54	0214_15.D	XXXXXXXXXX		02/14/21 18:46
16)	55	0214_16.D	XXXXXXXXXX		02/14/21 19:19
17)	56	0214_17.D	XXXXXXXXXX		02/14/21 19:55
18)	57	0214_18.D	XXXXXXXXXX		02/14/21 20:23
19)	58	0214_19.D	XXXXXXXXXX		02/14/21 20:53
20)	59	0214_20.D	XXXXXXXXXX		02/14/21 21:23
21)	60	0214_21.D	XXXXXXXXXX		02/15/21 11:20
22)	61	0214_22.D	XXXXXXXXXX		02/15/21 11:47
23)	62	0215_01.D	XXXXXXXXXX		02/15/21 12:49
24)	63	0215_02.D	XXXXXXXXXX		02/15/21 13:19
25)	64	0215_03.D	XXXXXXXXXX		02/15/21 13:51
26)	65	0215_04.D	XXXXXXXXXX		02/15/21 14:18
27)	66	0215_05.D	XXXXXXXXXX		02/15/21 14:45
28)	67	0215_06.D	CANISTER BLK 2093	CANISTER BLK 2093	02/15/21 15:18
29)	68	0215_07.D	XXXXXXXXXX		02/15/21 15:50
30)	69	0215_08.D	XXXXXXXXXX		02/15/21 18:33
31)	70	0215_09.D	XXXXXXXXXX		02/15/21 19:07
32)	71	0215_10.D	XXXXXXXXXX		02/15/21 19:40
33)	72	0215_11.D	XXXXXXXXXX		02/15/21 20:14
34)	73	0215_12.D	XXXXXXXXXX		02/15/21 20:47
35)	74	0215_13.D	XXXXXXXXXX		02/15/21 21:21
36)	75	0215_14.D	XXXXXXXXXX		02/15/21 21:54
37)	76	0215_15.D	XXXXXXXXXX		02/15/21 22:28
38)	77	0215_16.D	XXXXXXXXXX		02/15/21 23:07
39)	78	0215_17.D	XXXXXXXXXX		02/15/21 23:41
40)	79	0215_18.D	XXXXXXXXXX		02/16/21 0:19
41)	80	0215_19.D	XXXXXXXXXX		02/16/21 0:49
42)	81	0215_20.D	XXXXXXXXXX		02/16/21 1:18
43)	82	0215_21.D	XXXXXXXXXX		02/16/21 1:47
44)	83	0215_22.D	XXXXXXXXXX		02/16/21 2:16
45)	84	0215_23.D	XXXXXXXXXX		02/16/21 2:46
46)	85	0215_24.D	XXXXXXXXXX		02/16/21 3:15
47)	86	0215_25.D	XXXXXXXXXX		02/16/21 8:05
48)	87	0215_26.D	XXXXXXXXXX		02/16/21 8:38
49)	88	0215_27.D	XXXXXXXXXX		02/16/21 9:11
50)	89	0215_28.D	XXXXXXXXXX		02/16/21 9:51
51)	90	0215_29.D	XXXXXXXXXX		02/16/21 10:24
52)	91	0215_30.D	XXXXXXXXXX		02/16/21 10:58
53)	92	0215_31.D	XXXXXXXXXX		02/16/21 11:26
54)	93	0215_32.D	XXXXXXXXXX		02/16/21 11:55
55)	94	0215_33.D	XXXXXXXXXX		02/16/21 12:26

Injection Log

Data Directory: H:\AIR2021\CHEM24\03MAR\10\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	45	0310_01.D	XXXXXXXXXX		03/10/21 10:27
2)	46	0310_02.D	BFB TUNE	0/0	03/10/21 10:54
3)	47	0310_03.D	ICAL 0.02	0.02	03/10/21 11:22
4)	48	0310_04.D	ICAL 0.035	0.035	03/10/21 11:50
5)	49	0310_05.D	ICAL 0.05	0.05	03/10/21 12:18
6)	50	0310_06.D	ICAL 0.1	0.10	03/10/21 12:46
7)	51	0310_07.D	ICAL 0.25	0.20	03/10/21 13:16
8)	52	0310_08.D	ICAL 0.5	0.50	03/10/21 13:48
9)	53	0310_09.D	ICAL 2.5	2.5	03/10/21 14:21
10)	54	0310_10.D	ICAL 5	5.0	03/10/21 14:50
11)	55	0310_11.D	ICAL 25	25	03/10/21 15:23
12)	56	0310_12.D	ICAL 40	40	03/10/21 15:59
13)	57	0310_13.D	XXXXXXXXXX		03/10/21 16:27
14)	58	0310_14.D	ICAL 1	1ppb	03/10/21 16:57
15)	59	0310_15.D	ICAL 10	10ppb	03/10/21 17:26
16)	60	0310_16.D	XXXXXXXXXX		03/10/21 18:00
17)	61	0310_17.D	XXXXXXXXXX		03/10/21 18:29
18)	62	0310_18.D	XXXXXXXXXX		03/10/21 18:57

Injection Log

Data Directory: H:\AIR2021\CHEM24\03MAR\12\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	1	0312_01.D	XXXXXXXXXX		03/12/21 10:20
2)	2	0312_02.D	BFB TUNE - CCAL 1	1ppb cc - 1ppb cc	03/12/21 10:50
3)	3	0312_03.D	XXXXXXXXXX		03/12/21 11:21
4)	4	0312_04.D	CH77086 LCS	CH77086 LCS	03/12/21 11:54
5)	5	0312_05.D	XXXXXXXXXX		03/12/21 12:21
6)	6	0312_06.D	CH77086 BLANK	CH77086 BLANK	03/12/21 12:49
7)	7	0312_07.D	SS-1	CH77086	03/12/21 13:23
8)	8	0312_08.D	SS-1 DUP	CH77086 DUP	03/12/21 13:58
9)	9	0312_09.D	SS-2	CH77087	03/12/21 14:33
10)	10	0312_10.D	XXXXXXXXXX		03/12/21 15:13
11)	10	0312_11.D	XXXXXXXXXX		03/12/21 16:00
12)	11	0312_12.D	XXXXXXXXXX		03/12/21 16:34
13)	12	0312_13.D	XXXXXXXXXX		03/12/21 17:09
14)	13	0312_14.D	XXXXXXXXXX		03/12/21 17:44
15)	14	0312_15.D	XXXXXXXXXX		03/12/21 18:23
16)	15	0312_16.D	XXXXXXXXXX		03/12/21 18:54
17)	16	0312_17.D	XXXXXXXXXX		03/12/21 19:25
18)	17	0312_18.D	XXXXXXXXXX		03/12/21 19:54
19)	18	0312_19.D	XXXXXXXXXX		03/12/21 20:35
20)	19	0312_20.D	XXXXXXXXXX		03/12/21 21:10
21)	20	0312_21.D	XXXXXXXXXX		03/12/21 21:46
22)	21	0312_22.D	XXXXXXXXXX		03/12/21 22:21
23)	22	0312_23.D	XXXXXXXXXX		03/12/21 22:55
24)	23	0312_24.D	XXXXXXXXXX		03/12/21 23:24
25)	24	0312_25.D	XXXXXXXXXX		03/13/21 0:41
26)	25	0312_26.D	XXXXXXXXXX		03/13/21 1:11



Tuesday, March 16, 2021

Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Project ID:
SDG ID: GCH77085
Sample ID#s: CH77085 - CH77088

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 that reads "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
UT Lab Registration #CT00007
VT Lab Registration #VT11301



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

March 16, 2021

SDG I.D.: GCH77085

Project ID:

Client Id	Lab Id	Matrix
IA-1	CH77085	AIR
SS-1	CH77086	AIR
SS-2	CH77087	AIR
AA-1	CH77088	AIR



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



Analysis Report

March 16, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 470

Custody Information

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

Date

03/10/21 17:51
03/11/21 16:30

Time

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77085

Project ID:
Client ID: IA-1

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Chlorinated Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.200	ND	1.37	03/11/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	ND	1.09	03/11/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.14	03/11/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	ND	0.15	03/11/21	KCA	1
1,1-Dichloroethane	ND	0.200	ND	0.81	03/11/21	KCA	1
1,1-Dichloroethene	ND	0.200	ND	0.79	03/11/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	ND	0.15	03/11/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	ND	0.60	03/11/21	KCA	1
1,2-Dichloroethane	ND	0.022	ND	0.09	03/11/21	KCA	1
1,2-dichloropropane	ND	0.027	ND	0.12	03/11/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	ND	0.60	03/11/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	ND	0.48	03/11/21	KCA	1
Bromodichloromethane	ND	0.020	ND	0.13	03/11/21	KCA	1
Bromoform	ND	0.200	ND	2.07	03/11/21	KCA	1
Bromomethane	ND	0.150	ND	0.58	03/11/21	KCA	1
Carbon Tetrachloride	ND	0.086	ND	0.54	03/11/21	KCA	1
Chlorobenzene	ND	0.200	ND	0.92	03/11/21	KCA	1
Chloroethane	ND	0.200	ND	0.53	03/11/21	KCA	1
Chloroform	ND	0.200	ND	0.98	03/11/21	KCA	1
Chloromethane	0.570	0.200	1.18	0.41	03/11/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	ND	0.79	03/11/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	ND	0.91	03/11/21	KCA	1
Dibromochloromethane	ND	0.020	ND	0.17	03/11/21	KCA	1
Dichlorodifluoromethane	0.382	0.200	1.89	0.99	03/11/21	KCA	1
Methylene Chloride	ND	0.500	ND	1.74	03/11/21	KCA	1
Tetrachloroethene	ND	0.200	ND	1.36	03/11/21	KCA	1

Project ID:
Client ID: IA-1

Phoenix I.D.: CH77085

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	ND	0.79	03/11/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	ND	0.91	03/11/21	KCA	1
Trichloroethene	0.083	0.075	0.45	0.40	03/11/21	KCA	1
Trichlorofluoromethane	0.211	0.200	1.18	1.12	03/11/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	ND	1.53	03/11/21	KCA	1
Vinyl Chloride	ND	0.100	ND	0.26	03/11/21	KCA	1
<u>QA/QC Surrogates/Internals</u>							
% Bromofluorobenzene	103	%	103	%	03/11/21	KCA	1
% IS-1,4-Difluorobenzene	91	%	91	%	03/11/21	KCA	1
% IS-Bromochloromethane	89	%	89	%	03/11/21	KCA	1
% IS-Chlorobenzene-d5	92	%	92	%	03/11/21	KCA	1

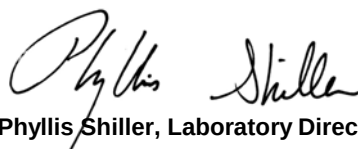
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

March 16, 2021

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

March 16, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 28605

Custody Information

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

Date

03/10/21 17:45
03/11/21 16:30

Time

Project ID:
Client ID: SS-1

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77086

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Chlorinated Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.200	ND	1.37	03/12/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	ND	1.09	03/12/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.14	03/12/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	ND	0.15	03/12/21	KCA	1
1,1-Dichloroethane	ND	0.200	ND	0.81	03/12/21	KCA	1
1,1-Dichloroethene	ND	0.200	ND	0.79	03/12/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	ND	0.15	03/12/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	ND	0.60	03/12/21	KCA	1
1,2-Dichloroethane	ND	0.022	ND	0.09	03/12/21	KCA	1
1,2-dichloropropane	ND	0.027	ND	0.12	03/12/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	ND	0.60	03/12/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	ND	0.48	03/12/21	KCA	1
Bromodichloromethane	ND	0.020	ND	0.13	03/12/21	KCA	1
Bromoform	ND	0.200	ND	2.07	03/12/21	KCA	1
Bromomethane	ND	0.150	ND	0.58	03/12/21	KCA	1
Carbon Tetrachloride	ND	0.086	ND	0.54	03/12/21	KCA	1
Chlorobenzene	ND	0.200	ND	0.92	03/12/21	KCA	1
Chloroethane	ND	0.200	ND	0.53	03/12/21	KCA	1
Chloroform	ND	0.200	ND	0.98	03/12/21	KCA	1
Chloromethane	ND	0.200	ND	0.41	03/12/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	ND	0.79	03/12/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	ND	0.91	03/12/21	KCA	1
Dibromochloromethane	ND	0.020	ND	0.17	03/12/21	KCA	1
Dichlorodifluoromethane	0.267	0.200	1.32	0.99	03/12/21	KCA	1
Methylene Chloride	ND	0.500	ND	1.74	03/12/21	KCA	1
Tetrachloroethene	ND	0.200	ND	1.36	03/12/21	KCA	1

Project ID:
Client ID: SS-1

Phoenix I.D.: CH77086

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	ND	0.79	03/12/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	ND	0.91	03/12/21	KCA	1
Trichloroethene	0.115	0.075	0.62	0.40	03/12/21	KCA	1
Trichlorofluoromethane	0.200	0.200	1.12	1.12	03/12/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	ND	1.53	03/12/21	KCA	1
Vinyl Chloride	ND	0.100	ND	0.26	03/12/21	KCA	1
<u>QA/QC Surrogates/Internals</u>							
% Bromofluorobenzene	101	%	101	%	03/12/21	KCA	1
% IS-1,4-Difluorobenzene	101	%	101	%	03/12/21	KCA	1
% IS-Bromochloromethane	103	%	103	%	03/12/21	KCA	1
% IS-Chlorobenzene-d5	102	%	102	%	03/12/21	KCA	1

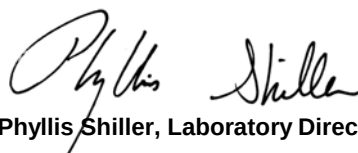
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RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low

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

March 16, 2021

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

March 16, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 21341

Custody Information

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

Date Time

03/10/21
03/11/21 16:30

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77087

Project ID:
Client ID: SS-2

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Chlorinated Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.200	ND	1.37	03/12/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	ND	1.09	03/12/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.14	03/12/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	ND	0.15	03/12/21	KCA	1
1,1-Dichloroethane	ND	0.200	ND	0.81	03/12/21	KCA	1
1,1-Dichloroethene	ND	0.200	ND	0.79	03/12/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	ND	0.15	03/12/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	ND	0.60	03/12/21	KCA	1
1,2-Dichloroethane	ND	0.022	ND	0.09	03/12/21	KCA	1
1,2-dichloropropane	ND	0.027	ND	0.12	03/12/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	ND	0.60	03/12/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	ND	0.48	03/12/21	KCA	1
Bromodichloromethane	ND	0.020	ND	0.13	03/12/21	KCA	1
Bromoform	ND	0.200	ND	2.07	03/12/21	KCA	1
Bromomethane	ND	0.150	ND	0.58	03/12/21	KCA	1
Carbon Tetrachloride	ND	0.086	ND	0.54	03/12/21	KCA	1
Chlorobenzene	ND	0.200	ND	0.92	03/12/21	KCA	1
Chloroethane	ND	0.200	ND	0.53	03/12/21	KCA	1
Chloroform	ND	0.200	ND	0.98	03/12/21	KCA	1
Chloromethane	ND	0.200	ND	0.41	03/12/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	ND	0.79	03/12/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	ND	0.91	03/12/21	KCA	1
Dibromochloromethane	ND	0.020	ND	0.17	03/12/21	KCA	1
Dichlorodifluoromethane	0.280	0.200	1.38	0.99	03/12/21	KCA	1
Methylene Chloride	ND	0.500	ND	1.74	03/12/21	KCA	1
Tetrachloroethene	ND	0.200	ND	1.36	03/12/21	KCA	1

Project ID:
Client ID: SS-2

Phoenix I.D.: CH77087

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	ND	0.79	03/12/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	ND	0.91	03/12/21	KCA	1
Trichloroethene	ND	0.075	ND	0.40	03/12/21	KCA	1
Trichlorofluoromethane	0.222	0.200	1.25	1.12	03/12/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	ND	1.53	03/12/21	KCA	1
Vinyl Chloride	ND	0.100	ND	0.26	03/12/21	KCA	1
<u>QA/QC Surrogates/Internals</u>							
% Bromofluorobenzene	100	%	100	%	03/12/21	KCA	1
% IS-1,4-Difluorobenzene	101	%	101	%	03/12/21	KCA	1
% IS-Bromochloromethane	101	%	101	%	03/12/21	KCA	1
% IS-Chlorobenzene-d5	101	%	101	%	03/12/21	KCA	1

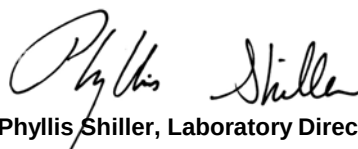
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

March 16, 2021

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

March 16, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 469

Custody Information

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

Date

03/10/21 17:54
03/11/21 16:30

Time

Project ID:
Client ID: AA-1

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77088

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
<u>Chlorinated Volatiles (TO15)</u>							
1,1,1,2-Tetrachloroethane	ND	0.200	ND	1.37	03/11/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	ND	1.09	03/11/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.14	03/11/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	ND	0.15	03/11/21	KCA	1
1,1-Dichloroethane	ND	0.200	ND	0.81	03/11/21	KCA	1
1,1-Dichloroethene	ND	0.200	ND	0.79	03/11/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	ND	0.15	03/11/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	ND	0.60	03/11/21	KCA	1
1,2-Dichloroethane	ND	0.022	ND	0.09	03/11/21	KCA	1
1,2-dichloropropane	ND	0.027	ND	0.12	03/11/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	ND	0.60	03/11/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	ND	0.48	03/11/21	KCA	1
Bromodichloromethane	ND	0.020	ND	0.13	03/11/21	KCA	1
Bromoform	ND	0.200	ND	2.07	03/11/21	KCA	1
Bromomethane	ND	0.150	ND	0.58	03/11/21	KCA	1
Carbon Tetrachloride	ND	0.086	ND	0.54	03/11/21	KCA	1
Chlorobenzene	ND	0.200	ND	0.92	03/11/21	KCA	1
Chloroethane	ND	0.200	ND	0.53	03/11/21	KCA	1
Chloroform	ND	0.200	ND	0.98	03/11/21	KCA	1
Chloromethane	0.540	0.200	1.11	0.41	03/11/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	ND	0.79	03/11/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	ND	0.91	03/11/21	KCA	1
Dibromochloromethane	ND	0.020	ND	0.17	03/11/21	KCA	1
Dichlorodifluoromethane	0.419	0.200	2.07	0.99	03/11/21	KCA	1
Methylene Chloride	ND	0.500	ND	1.74	03/11/21	KCA	1
Tetrachloroethene	ND	0.200	ND	1.36	03/11/21	KCA	1

Project ID:
Client ID: AA-1

Phoenix I.D.: CH77088

Parameter	ppbv Result	ppbv RL	ug/m3 Result	ug/m3 RL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	ND	0.79	03/11/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	ND	0.91	03/11/21	KCA	1
Trichloroethene	ND	0.075	ND	0.40	03/11/21	KCA	1
Trichlorofluoromethane	0.215	0.200	1.21	1.12	03/11/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	ND	1.53	03/11/21	KCA	1
Vinyl Chloride	ND	0.100	ND	0.26	03/11/21	KCA	1
<u>QA/QC Surrogates/Internals</u>							
% Bromofluorobenzene	103	%	103	%	03/11/21	KCA	1
% IS-1,4-Difluorobenzene	93	%	93	%	03/11/21	KCA	1
% IS-Bromochloromethane	92	%	92	%	03/11/21	KCA	1
% IS-Chlorobenzene-d5	93	%	93	%	03/11/21	KCA	1

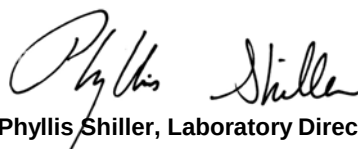
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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

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

March 16, 2021

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

March 16, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Location Code: ECMS

SDG I.D.: GCH77085

Project ID:

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
IA-1	CH77085	470	6.0L	4978	03/04/21	-30	-6	21.7	23.6	8.4	-30	-7	03/10/21 13:59	03/10/21 17:51
SS-1	CH77086	28605	6.0L	5404	03/04/21	-30	-5	21.7	21.6	0.5	-30	-6.5	03/10/21 14:04	03/10/21 17:45
SS-2	CH77087	21341	6.0L	5648	03/04/21	-30	-5	21.7	22.6	4.1	-30	-7	03/10/21 14:02	03/10/21 17:51
AA-1	CH77088	469	6.0L	5597	03/04/21	-30	-1	21.7	24	10.1	-29.5	-3.5	03/10/21 14:03	03/10/21 17:54



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



QA/QC Report

March 16, 2021

QA/QC Data

SDG I.D.: GCH77085

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 566635 (ppbv), QC Sample No: CH77086 (CH77086, CH77087)												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.200	ND	1.37	103	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.200	ND	1.09	104	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.020	ND	0.14	101	ND	ND	ND	ND	NC	70 - 130	25
1,1,2-Trichloroethane	ND	0.027	ND	0.15	102	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.200	ND	0.81	104	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.200	ND	0.79	104	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.020	ND	0.15	106	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.100	ND	0.60	109	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.022	ND	0.09	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.027	ND	0.12	105	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.100	ND	0.60	107	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.080	ND	0.48	112	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.020	ND	0.13	105	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.200	ND	2.07	119	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.150	ND	0.58	101	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.086	ND	0.54	104	ND	ND	ND	ND	NC	70 - 130	25
Chlorobenzene	ND	0.200	ND	0.92	104	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.200	ND	0.53	102	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	102	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.200	ND	0.41	108	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.200	ND	0.79	104	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.200	ND	0.91	114	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.020	ND	0.17	108	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	76	1.32	1.38	0.267	0.280	NC	70 - 130	25
Methylene Chloride	ND	0.500	ND	1.74	91	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.200	ND	1.36	103	ND	ND	ND	ND	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.200	ND	0.79	106	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.200	ND	0.91	108	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.075	ND	0.40	109	0.62	ND	0.115	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.200	ND	1.12	104	1.12	1.27	0.200	0.226	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.200	ND	1.53	102	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.100	ND	0.26	108	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	100	%	100	%	102	101	99	101	99	NC	70 - 130	25
% IS-1,4-Difluorobenzene	100	%	100	%	102	101	100	101	100	NC	60 - 140	25
% IS-Bromochloromethane	101	%	101	%	103	103	99	103	99	NC	60 - 140	25
% IS-Chlorobenzene-d5	99	%	99	%	103	102	100	102	100	NC	60 - 140	25

QA/QC Batch 566611 (ppbv), QC Sample No: CH77271 (CH77085, CH77088)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.038	ND	0.26	101	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.250	ND	1.36	107	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.010	ND	0.07	99	ND	ND	ND	ND	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCH77085

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
1,1,2-Trichloroethane	ND	0.010	ND	0.05	99	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.075	ND	0.30	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.010	ND	0.04	96	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.010	ND	0.08	105	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.050	ND	0.30	111	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.010	ND	0.04	108	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.010	ND	0.05	99	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.050	ND	0.30	110	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.040	ND	0.24	118	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.010	ND	0.07	102	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.075	ND	0.77	112	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.070	ND	0.27	101	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.043	ND	0.27	111	0.47	0.48	0.075	0.076	NC	70 - 130	25
Chlorobenzene	ND	0.100	ND	0.46	101	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.250	ND	0.66	105	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.100	ND	0.49	100	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.250	ND	0.52	101	1.17	1.19	0.566	0.579	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.100	ND	0.40	104	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.050	ND	0.23	110	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.010	ND	0.09	107	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.250	ND	1.24	105	1.78	1.86	0.361	0.376	NC	70 - 130	25
Methylene Chloride	ND	1.50	ND	5.21	95	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.050	ND	0.34	106	34.4	34.6	5.08	5.11	0.6	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.100	ND	0.40	104	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.250	ND	1.13	102	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.025	ND	0.13	109	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.250	ND	1.40	97	3.79	3.83	0.675	0.683	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.250	ND	1.91	99	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.010	ND	0.03	108	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	101	%	101	%	104	102	102	102	102	NC	70 - 130	25
% IS-1,4-Difluorobenzene	99	%	99	%	99	94	94	94	94	NC	60 - 140	25
% IS-Bromochloromethane	98	%	98	%	99	91	90	91	90	NC	60 - 140	25
% IS-Chlorobenzene-d5	98	%	98	%	110	95	94	95	94	NC	60 - 140	25

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
March 16, 2021

Tuesday, March 16, 2021

Criteria: None
State: NY

Sample Criteria Exceedances Report
GCH77085 - ECMS

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

*** No Data to Display ***

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.



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



Analysis Comments

March 16, 2021

SDG I.D.: GCH77085

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.



587 East Middle Turnpike, P.O. Box 170, Manchester, CT 06040
Telephone 860/645-1102 • Fax 860/645-0873

CHAIN OF CUSTODY RECORD

AIR ANALYSES

800-827-5426

email: gre@phoenixlabs.com

P.O. # _____ Page _____ of _____

Data Delivery:

☐ Fax #:

☐ Email:

☐ Phone #:

Report to: **Harry Sudwischer**

Customer: **ECMS**

Address:

Project Name:

Invoice to:

Sampled by:

Data Format:

Requested Deliverable:

RCP

ASP CAT B

MCP

NJ Deliverables

Quote Number:

Other:

Excel

Equis

(Circle)

GCH 77085

harry.sudwischer@ecmsny.com

From: harry.sudwischer@ecmsny.com
Sent: Friday, March 5, 2021 2:42 PM
To: 'Jason Aurrichio'
Subject: CVOC TO-15 List

Jason,

These compounds are for the Congers, NY ECMS Job# 21.087 Job now scheduled on Wednesday 3/10.

The follow compounds are the reduced list of compounds of TO-15 compounds CVOCs:

Trichloroethylene, cis-1,2-Dichloroethylene, 1,1-Dichloroethylene, Carbon tetrachloride, Tetrachloroethylene, 1,1,1-Trichloroethane, Methylene chloride, and Vinyl Chloride

Harry Sudwischer
Cell: (203) 241-1030
Office: (860) 915-1116
Email: harrys@ecmsny.com

Environmental Consulting and Management Services, Inc.
10 Filmont Drive, New City, New York 10956

www.ECMSny.com



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R

APPENDIX F
DATA USABILITY SUMMARY REPORT





Geology

Hydrology

Remediation

Water Supply

March 29, 2021

Mr. Harry Sudwischer
Environmental Consulting and
Management Services, Inc.
10 Filmont Drive
New York, NY 10956

Re: Data Usability Summary Report
285 Route 303
Congers, NY (DEC V000456)
March 2021 Air Samples

Dear Mr. Sudwischer:

The data usability summary report (DUSR) and data validation summary are attached to this letter for 285 Route 303, Congers, NY, March 2021 air samples. The data for Phoenix Environmental Laboratories, Inc., SDG# GCH77085, are acceptable with no issues that are identified and discussed in the validation summary. There are no data that are qualified as either estimated (J) or rejected (R) in the data pack.

A list of common data validation acronyms is attached to this letter to assist you in interpreting the validation summaries. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for giving Alpha this opportunity.

Sincerely,
Alpha Geoscience

Donald Anné
Senior Chemist

DCA/bms
Via email

z:\projects\2010\10600 - 10620\10615-congers colonial plaza\temp-review\congers 285 rt 303-211.ltr.docx



**Data Usability Summary Report for
Phoenix Environmental Laboratories, Inc.
SDG: GCH77085**

**4 Air Samples
Collected March 10, 2021**

Prepared by: Donald Anné
March 29, 2021

Geology

Hydrology

Remediation

Water Supply

The data packages contain the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appeared legible and complete. The data pack contained the results for 4 air samples analyzed for TO-15 volatiles.

The overall performances of the analyses are acceptable. Phoenix Environmental Laboratories, Inc. did fulfill the requirements of the analytical methods.

The data are acceptable with no issues identified in the accompanying data validation review. There were no data that were qualified as either rejected, unusable (R) or estimated; therefore, all data are considered usable. Detailed information on data quality is included in the data validation review.

Qualified Data Section

(No Data Qualified)



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



Analysis Report

March 26, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 470

Custody Information

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

Date

03/10/21 17:51
03/11/21 16:30

Time

Project ID:
Client ID: IA-1

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77085

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Chlorinated Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.200	0.500	ND	1.37	3.43	03/11/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	0.500	ND	1.09	2.73	03/11/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.020	ND	0.14	0.14	03/11/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	0.027	ND	0.15	0.15	03/11/21	KCA	1
1,1-Dichloroethane	ND	0.200	0.200	ND	0.81	0.81	03/11/21	KCA	1
1,1-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/11/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	0.020	ND	0.15	0.15	03/11/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/11/21	KCA	1
1,2-Dichloroethane	ND	0.022	0.022	ND	0.09	0.09	03/11/21	KCA	1
1,2-dichloropropane	ND	0.027	0.027	ND	0.12	0.12	03/11/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/11/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	0.080	ND	0.48	0.48	03/11/21	KCA	1
Bromodichloromethane	ND	0.020	0.020	ND	0.13	0.13	03/11/21	KCA	1
Bromoform	ND	0.200	0.200	ND	2.07	2.07	03/11/21	KCA	1
Bromomethane	ND	0.150	0.150	ND	0.58	0.58	03/11/21	KCA	1
Carbon Tetrachloride	ND	0.086	0.086	ND	0.54	0.54	03/11/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	03/11/21	KCA	1
Chloroethane	ND	0.200	0.200	ND	0.53	0.53	03/11/21	KCA	1
Chloroform	ND	0.200	0.200	ND	0.98	0.98	03/11/21	KCA	1
Chloromethane	0.570	0.200	0.200	1.18	0.41	0.41	03/11/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/11/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/11/21	KCA	1
Dibromochloromethane	ND	0.020	0.020	ND	0.17	0.17	03/11/21	KCA	1
Dichlorodifluoromethane	0.382	0.200	0.200	1.89	0.99	0.99	03/11/21	KCA	1
Methylene Chloride	ND	0.500	0.500	ND	1.74	1.74	03/11/21	KCA	1
Tetrachloroethene	ND	0.200	0.200	ND	1.36	1.36	03/11/21	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/11/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/11/21	KCA	1
Trichloroethene	0.083	0.075	0.075	0.45	0.40	0.40	03/11/21	KCA	1
Trichlorofluoromethane	0.211	0.200	0.200	1.18	1.12	1.12	03/11/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	0.200	ND	1.53	1.53	03/11/21	KCA	1
Vinyl Chloride	ND	0.100	0.100	ND	0.26	0.26	03/11/21	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	03/11/21	KCA	1
% IS-1,4-Difluorobenzene	91	%	%	91	%	%	03/11/21	KCA	1
% IS-Bromochloromethane	89	%	%	89	%	%	03/11/21	KCA	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	03/11/21	KCA	1

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:

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Phyllis Shiller, Laboratory Director

March 26, 2021

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

March 26, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 28605

Custody Information

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

Date

03/10/21 17:45
03/11/21 16:30

Time

Project ID:
Client ID: SS-1

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77086

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Chlorinated Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.200	0.500	ND	1.37	3.43	03/12/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	0.500	ND	1.09	2.73	03/12/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.020	ND	0.14	0.14	03/12/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	0.027	ND	0.15	0.15	03/12/21	KCA	1
1,1-Dichloroethane	ND	0.200	0.200	ND	0.81	0.81	03/12/21	KCA	1
1,1-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/12/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	0.020	ND	0.15	0.15	03/12/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/12/21	KCA	1
1,2-Dichloroethane	ND	0.022	0.022	ND	0.09	0.09	03/12/21	KCA	1
1,2-dichloropropane	ND	0.027	0.027	ND	0.12	0.12	03/12/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/12/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	0.080	ND	0.48	0.48	03/12/21	KCA	1
Bromodichloromethane	ND	0.020	0.020	ND	0.13	0.13	03/12/21	KCA	1
Bromoform	ND	0.200	0.200	ND	2.07	2.07	03/12/21	KCA	1
Bromomethane	ND	0.150	0.150	ND	0.58	0.58	03/12/21	KCA	1
Carbon Tetrachloride	ND	0.086	0.086	ND	0.54	0.54	03/12/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	03/12/21	KCA	1
Chloroethane	ND	0.200	0.200	ND	0.53	0.53	03/12/21	KCA	1
Chloroform	ND	0.200	0.200	ND	0.98	0.98	03/12/21	KCA	1
Chloromethane	ND	0.200	0.200	ND	0.41	0.41	03/12/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/12/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/12/21	KCA	1
Dibromochloromethane	ND	0.020	0.020	ND	0.17	0.17	03/12/21	KCA	1
Dichlorodifluoromethane	0.267	0.200	0.200	1.32	0.99	0.99	03/12/21	KCA	1
Methylene Chloride	ND	0.500	0.500	ND	1.74	1.74	03/12/21	KCA	1
Tetrachloroethene	ND	0.200	0.200	ND	1.36	1.36	03/12/21	KCA	1

Project ID:
Client ID: SS-1

Phoenix I.D.: CH77086

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/12/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/12/21	KCA	1
Trichloroethene	0.115	0.075	0.075	0.62	0.40	0.40	03/12/21	KCA	1
Trichlorofluoromethane	0.200	0.200	0.200	1.12	1.12	1.12	03/12/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	0.200	ND	1.53	1.53	03/12/21	KCA	1
Vinyl Chloride	ND	0.100	0.100	ND	0.26	0.26	03/12/21	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	101	%	%	101	%	%	03/12/21	KCA	1
% IS-1,4-Difluorobenzene	101	%	%	101	%	%	03/12/21	KCA	1
% IS-Bromochloromethane	103	%	%	103	%	%	03/12/21	KCA	1
% IS-Chlorobenzene-d5	102	%	%	102	%	%	03/12/21	KCA	1

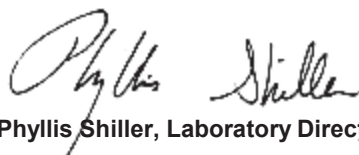
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QA/QC Surrogates: Surrogates are compounds (preceded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

March 26, 2021

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

March 26, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 21341

Custody Information

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

Date

03/10/21

Time

16:30

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77087

Project ID:
Client ID: SS-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Chlorinated Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.200	0.500	ND	1.37	3.43	03/12/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	0.500	ND	1.09	2.73	03/12/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.020	ND	0.14	0.14	03/12/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	0.027	ND	0.15	0.15	03/12/21	KCA	1
1,1-Dichloroethane	ND	0.200	0.200	ND	0.81	0.81	03/12/21	KCA	1
1,1-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/12/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	0.020	ND	0.15	0.15	03/12/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/12/21	KCA	1
1,2-Dichloroethane	ND	0.022	0.022	ND	0.09	0.09	03/12/21	KCA	1
1,2-dichloropropane	ND	0.027	0.027	ND	0.12	0.12	03/12/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/12/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	0.080	ND	0.48	0.48	03/12/21	KCA	1
Bromodichloromethane	ND	0.020	0.020	ND	0.13	0.13	03/12/21	KCA	1
Bromoform	ND	0.200	0.200	ND	2.07	2.07	03/12/21	KCA	1
Bromomethane	ND	0.150	0.150	ND	0.58	0.58	03/12/21	KCA	1
Carbon Tetrachloride	ND	0.086	0.086	ND	0.54	0.54	03/12/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	03/12/21	KCA	1
Chloroethane	ND	0.200	0.200	ND	0.53	0.53	03/12/21	KCA	1
Chloroform	ND	0.200	0.200	ND	0.98	0.98	03/12/21	KCA	1
Chloromethane	ND	0.200	0.200	ND	0.41	0.41	03/12/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/12/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/12/21	KCA	1
Dibromochloromethane	ND	0.020	0.020	ND	0.17	0.17	03/12/21	KCA	1
Dichlorodifluoromethane	0.280	0.200	0.200	1.38	0.99	0.99	03/12/21	KCA	1
Methylene Chloride	ND	0.500	0.500	ND	1.74	1.74	03/12/21	KCA	1
Tetrachloroethene	ND	0.200	0.200	ND	1.36	1.36	03/12/21	KCA	1

Project ID:
Client ID: SS-2

Phoenix I.D.: CH77087

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79 0.79	03/12/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91 0.91	03/12/21	KCA	1
Trichloroethene	ND	0.075	0.075	ND	0.40 0.40	03/12/21	KCA	1
Trichlorofluoromethane	0.222	0.200	0.200	1.25	1.12 1.12	03/12/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	0.200	ND	1.53 1.53	03/12/21	KCA	1
Vinyl Chloride	ND	0.100	0.100	ND	0.26 0.26	03/12/21	KCA	1
QA/QC Surrogates/Internals								
% Bromofluorobenzene	100	%	%	100	% %	03/12/21	KCA	1
% IS-1,4-Difluorobenzene	101	%	%	101	% %	03/12/21	KCA	1
% IS-Bromochloromethane	101	%	%	101	% %	03/12/21	KCA	1
% IS-Chlorobenzene-d5	101	%	%	101	% %	03/12/21	KCA	1

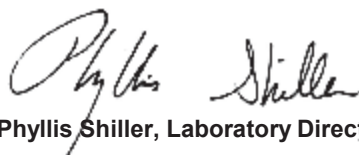
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Phyllis Shiller, Laboratory Director

March 26, 2021

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

March 26, 2021

FOR: Attn: Mr. Harry Sudwischer
ECMS, Inc
10 Filmont Drive
NY, NY 10956

Sample Information

Matrix: AIR
Location Code: ECMS
Rush Request: 72 Hour
P.O.#:
Canister Id: 469

Custody Information

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

Date

03/10/21 17:54
03/11/21 16:30

Time

Project ID:
Client ID: AA-1

Laboratory Data

SDG ID: GCH77085
Phoenix ID: CH77088

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Chlorinated Volatiles (TO15)									
1,1,1,2-Tetrachloroethane	ND	0.200	0.500	ND	1.37	3.43	03/11/21	KCA	1
1,1,1-Trichloroethane	ND	0.200	0.500	ND	1.09	2.73	03/11/21	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.020	0.020	ND	0.14	0.14	03/11/21	KCA	1
1,1,2-Trichloroethane	ND	0.027	0.027	ND	0.15	0.15	03/11/21	KCA	1
1,1-Dichloroethane	ND	0.200	0.200	ND	0.81	0.81	03/11/21	KCA	1
1,1-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/11/21	KCA	1
1,2-Dibromoethane(EDB)	ND	0.020	0.020	ND	0.15	0.15	03/11/21	KCA	1
1,2-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/11/21	KCA	1
1,2-Dichloroethane	ND	0.022	0.022	ND	0.09	0.09	03/11/21	KCA	1
1,2-dichloropropane	ND	0.027	0.027	ND	0.12	0.12	03/11/21	KCA	1
1,3-Dichlorobenzene	ND	0.100	0.100	ND	0.60	0.60	03/11/21	KCA	1
1,4-Dichlorobenzene	ND	0.080	0.080	ND	0.48	0.48	03/11/21	KCA	1
Bromodichloromethane	ND	0.020	0.020	ND	0.13	0.13	03/11/21	KCA	1
Bromoform	ND	0.200	0.200	ND	2.07	2.07	03/11/21	KCA	1
Bromomethane	ND	0.150	0.150	ND	0.58	0.58	03/11/21	KCA	1
Carbon Tetrachloride	ND	0.086	0.086	ND	0.54	0.54	03/11/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	03/11/21	KCA	1
Chloroethane	ND	0.200	0.200	ND	0.53	0.53	03/11/21	KCA	1
Chloroform	ND	0.200	0.200	ND	0.98	0.98	03/11/21	KCA	1
Chloromethane	0.540	0.200	0.200	1.11	0.41	0.41	03/11/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79	0.79	03/11/21	KCA	1
cis-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91	0.91	03/11/21	KCA	1
Dibromochloromethane	ND	0.020	0.020	ND	0.17	0.17	03/11/21	KCA	1
Dichlorodifluoromethane	0.419	0.200	0.200	2.07	0.99	0.99	03/11/21	KCA	1
Methylene Chloride	ND	0.500	0.500	ND	1.74	1.74	03/11/21	KCA	1
Tetrachloroethene	ND	0.200	0.200	ND	1.36	1.36	03/11/21	KCA	1

Project ID:
Client ID: AA-1

Phoenix I.D.: CH77088

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3LOD/ RL MDL	Date/Time	By	Dilution
Trans-1,2-Dichloroethene	ND	0.200	0.200	ND	0.79 0.79	03/11/21	KCA	1
trans-1,3-Dichloropropene	ND	0.200	0.200	ND	0.91 0.91	03/11/21	KCA	1
Trichloroethene	ND	0.075	0.075	ND	0.40 0.40	03/11/21	KCA	1
Trichlorofluoromethane	0.215	0.200	0.200	1.21	1.12 1.12	03/11/21	KCA	1
Trichlorotrifluoroethane	ND	0.200	0.200	ND	1.53 1.53	03/11/21	KCA	1
Vinyl Chloride	ND	0.100	0.100	ND	0.26 0.26	03/11/21	KCA	1
QA/QC Surrogates/Internals								
% Bromofluorobenzene	103	%	%	103	% %	03/11/21	KCA	1
% IS-1,4-Difluorobenzene	93	%	%	93	% %	03/11/21	KCA	1
% IS-Bromochloromethane	92	%	%	92	% %	03/11/21	KCA	1
% IS-Chlorobenzene-d5	93	%	%	93	% %	03/11/21	KCA	1

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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

March 26, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

TO-15

Data Section



**QA/QC Review of Method TO-15 Volatiles Data
for Phoenix Environmental Laboratories, Inc.
SDG: GCH77085**

**4 Air Samples
Collected March 10, 2021**

Prepared by: Donald Anné
March 29, 2021

Geology

Hydrology

Remediation

Water Supply

Holding Times: Samples were analyzed within recommended USEPA holding times.

GC/MS Tuning and Mass Calibration: The BFB tuning criteria were within control limits.

Initial Calibration: The average RRFs for target compounds were above the allowable minimum (0.010) and the %RSDs were below the allowable maximum (30%), as required.

Continuing Calibration: The RRFs for target compounds were above the allowable minimum (0.010) and the %Ds were below the allowable maximum (30%), as required.

Blanks: The analysis of intra-lab blank reported target compounds as not detected. The analyses of the cleaned canisters reported target compounds as not detected.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for the soil gas samples.

Laboratory Control Sample: The percent recoveries for target compounds were within QC limits for air/vapor samples CH77086 LCS and CH77271 LCS.

Laboratory Duplicate: The relative percent differences for applicable compounds were below the allowable maximum (25%) for air/vapor duplicate sample SS-1, as required.

Compound ID: Checked compounds were within quantitation limits. The mass spectra for detected compounds contained the primary and secondary ions, as outlined in the method.

Canister Pressure: The laboratory reported the received samples with a residual vacuum, as required.

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TO 15 Volatiles

Calculations for Lab Duplicate Relative Percent Difference (RPD)

SDG No. GCH77086

S1= SS-1

S2= SS-1DUP

<u>Analyte*</u>	<u>S1</u>	<u>S2</u>	<u>RPD (%)</u>
dichlorodifluoromethane	0.267	0.280	5%
trichlorofluoromethane	0.200	0.226	12%
trichloroethene	0.115	ND	NC

All results in units of ppbv.

Bold results are below the RLs.

ND - Compound was reported as not detected.

NC - Not calculated; both results must be above the RL to calculate valid RPDs.

Alpha Geoscience: Acronyms and Definitions

Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

U	=	Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
R	=	Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
N	=	Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
J	=	Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
J-	=	Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
J+	=	Analyte is present. Reported value may be biased high and associated with a higher level of uncertainty than is normally expected with the analytical method.
UJ	=	Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.

Mohegan Lake Gas Mart, Inc.

December 20, 2018 - MES Initial Tank Tightness Pressure Test - Passed

December 20, 2018 - Vapor/Vent line Helium Pinpoint- Failed

Mohegan Lake Gas Mart, Inc.

January 7, 2019 - MES Vent line Pressure Test After Repair - Failed

Mohegan Lake Gas Mart, Inc.

April 4, 2019 - MES Vent Line Pressure Test After Tank Top Repairs - Passed

APPENDIX C

