



8 May 2025

TECHNICAL MEMORANDUM

TO: Jacky Luo, Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, Albany, New York 12233-7012

FROM: Megan Miller, EIT; Project Manager
EA Engineering and Geology, P.C.

SUBJECT: Soil Vapor Intrusion Sampling Technical Memorandum
Sulphur Springs Road Fill Area, Site No. 754020
Contract/Work Assignment No. D009806-39
Owego, Tioga County, New York

This memorandum documents the soil vapor intrusion (SVI) sampling event conducted on 18 and 19 February 2025 at the Sulphur Springs Road Fill Area Site (Site Number [No.] 754020), located in Owego, Tioga County, New York (Figure 1), hereinafter referred to as the Site. The SVI sampling was conducted under Work Assignment No. D009806-39 of the State Superfund Standby Contract between the New York State Department of Environmental Conservation (NYSDEC) and EA Engineering and Geology, P.C. (EA).

The SVI sampling event was performed at the request of NYSDEC and the New York State Department of Health (NYSDOH) to evaluate if volatile organic compound (VOC) contamination in groundwater at the Site is impacting the sub-slab soil vapor and indoor air of nearby residential and commercial structures. The Site Layout in Figure 1 illustrates the Sulphur Springs Site and surrounding area. This memorandum describes the SVI sampling event and presents and interprets analytical results from the sampling in accordance with the applicable NYSDOH decision matrices.

1. INTRODUCTION

1.1 SITE DESCRIPTION AND HISTORY

The Sulphur Springs Road Fill Area Site is approximately 1 acre in size and is located in a rural area on the east side of Sulphur Springs Road, approximately 500 feet south of Interstate 86 in the town of Owego, New York. The Site is bounded to the east by an undeveloped parcel, to the north by a trucking cargo terminal currently operated by Saia Less-than-Truckload Freight (historically New England Motor Freight, NYSDEC “N” Site No. 754017), to the west by a closed landfill referred to as the Chandler Dump Site (NYSDEC Site No. 754001), and to the south by a garage and sawmill (Figure 1). The Site and the Chandler Dump Site are part of the same 47-acre parcel, tax identification No. 139.00-2-5.11. The Susquehanna River is approximately 0.25 miles north of the Site.

The Site is an inactive, privately-owned fill area which was reported to have accepted municipal and industrial wastes. The Site is zoned for commercial use as a sawmill/lumber yard and is currently used to store equipment and materials for JOC Construction, LLC. Site characterization activities completed to date have identified VOCs in site soil exceeding protection of groundwater soil cleanup objectives, as well as groundwater exceeding their respective NYSDEC Ambient Water Quality Standards.¹

2. SCOPE OF WORK

The purpose of the SVI sampling event was to collect and evaluate air sample data to determine whether VOC contamination in groundwater at the Site may pose a threat to the indoor air quality of nearby residences and businesses through a soil vapor migration pathway. This sampling event was completed in February 2025. Sampling locations were identified by NYSDEC and NYSDOH, and are shown on Figure 2.

Completed activities include:

- Installation of temporary sub-slab vapor points in each structure's concrete slab, if present
- Collection of a sub-slab vapor sample at each installed temporary sub-slab point over 8-hour (commercial properties) and 24-hour (residential properties) periods
- Collection of a co-located indoor air sample concurrently with the sub-slab vapor sample
- Collection of one ambient outdoor air sample over a 24-hour period
- Laboratory analysis and data quality review
- Analytical data review and preparation of this summary report to present the results of the sampling event

Work performed under this Work Assignment was conducted in accordance with EA's Generic Quality Assurance Project Plan,² EA's Generic Field Activities Plan,³ and EA's Generic Health and Safety Plan.⁴ Daily Field Reports can be found in Attachment A and Field Forms can be found in Attachment B of this memorandum.

¹ EA. 2024. Site Characterization Report Sulphur Springs Road Fill Area (754020). December.

² EA. 2020. Generic Quality Assurance Project Plan for Work Assignments under NYSDEC Contract D009806. Revision 01. April.

³ EA. 2023. Generic Field Activities Plan for Work Assignments under NYSDEC Contract D009806. Revision 02. March.

⁴ EA. 2020. Generic Health and Safety Plan for Work Assignments under NYSDEC Contract D009806. Revision 01. March.

3. METHODOLOGY

The SVI sampling was conducted at six structures at the Site on 18 and 19 February 2025, adjacent to or near both the Site and the VOC-impacted groundwater associated with it. To maintain the confidentiality of the private property owners where the sampling was conducted, the sampling locations are presented in this report with anonymous location identifications (Structures 1 through 6) (Figures 1 and 2). The property address information on the NYSDOH Indoor Air Quality Questionnaire and Building Inventory Forms has been redacted and replaced with the structure number identification.

Prior to SVI sampling activities, building inspections were conducted in each structure to evaluate specific characteristics, foundation type and condition, and possible sub-slab soil gas entry points. Inspections included a product inventory to identify and pre-screen potential indoor air VOC sources that could influence sample data. A calibrated photoionization detector was used to record VOC levels (reported in parts per billion) in each structure and at chemical inventory locations. Photographs were taken of chemicals stored in each building, as well as any perforations or cracking in the building slabs (Attachment A). Information obtained during the building survey, including information on sources of potential indoor air contamination, was documented on the NYSDOH Indoor Air Quality Questionnaire and Building Inventory Forms. Completed forms for each structure are presented in Attachment B.

Sub-slab soil vapor and indoor air samples were collected from five of the structures. Indoor air and crawl space air samples were collected at one of the structures that had a crawl space with a dirt floor and no slab present. One outdoor air sample was collected in the area. The sub-slab vapor points were installed according to EA's Generic Field Activities Plan.³ The locations of the sub-slab vapor points were selected to be out of the line of traffic and convenient for homeowner and employee operations.

Sub-slab soil vapor points were installed using a hammer drill to penetrate the floor slab, and the annular space around the tubing was sealed with beeswax. Once the sub-slab vapor point was installed and the beeswax had cooled and solidified, a dry leak test was performed using helium tracer gas. All sub-slab points passed the leak test, and no repair or augmentation was required. A 6-liter (L) Summa[®] canister with a vacuum gauge and flow controller was connected to the sample tubing. Each sub-slab soil vapor, crawl space, indoor air, and outdoor air sample was collected using laboratory batch certified 6-L Summa[®] canisters equipped with laboratory-calibrated flow regulator valves to collect samples over an 8-hour (commercial structures) or 24-hour (residential structures) period. The targeted zone for sampling was the near sub-slab environment, approximately 2 inches below the concrete slab.

The following samples were collected for each structure:

- **Structure 1:** One 8-hour sub-slab soil vapor sample (SS-1) and one 8-hour indoor air sample (IA-1) were collected on the first floor of the building in a section used for storage

- **Structure 2:** One 8-hour sub-slab soil vapor sample (SS-2) and one 8-hour indoor air sample (IA-2) were collected on the first floor of the building in a section used for storage and office work
- **Structure 3:** One 8-hour sub-slab soil vapor sample (SS-3), one 8-hour indoor air sample (IA-3) and one indoor air sample duplicate (DUP-1) were collected on the first floor in the garage of the building; one 24-hour outdoor air sample (OA-1) was collected at the entrance of the structure
- **Structure 4:** One 24-hour air sample (CS-4) was collected in the crawl space beneath the laundry room (no groundwater or wetness was observed at this location); one 24-hour indoor air sample (IA-4) was collected in the laundry room near the entrance to the crawl space
- **Structure 5:** One 24-hour sub-slab soil vapor sample (SS-5) was collected in the garage and one 24-hour indoor air sample (IA-5) was collected in the basement directly adjacent to the garage
- **Structure 6:** One 24-hour sub-slab soil vapor sample (SS-6) and one 24-hour indoor air sample (IA-6) were collected in the garage, which stayed closed for the duration of sample collection

Indoor air samples collected from Structures 1 through 6 and the outdoor air sample collected from Structure 3 were collected from the breathing zone by placing the Summa[®] canisters with connected flow regulators approximately 3–5 feet above the floor or ground surface.

Sample collection started on 18 February 2025. To initiate sample collection, the valve on the Summa[®] canisters was opened to allow collection, and starting pressures and times were recorded on field sampling forms presented in Attachment B. Sample collection was completed on 19 February 2025. Samples were considered complete when the pressure inside the air canister was between negative 10 and negative 4 inches of mercury. At this point, the valves on the canister were closed. Final canister pressure and stop times and dates were recorded on field sampling forms and the chain-of-custody form.

One field duplicate quality assurance/quality control sample was collected during the sampling event. The duplicate sample was collected with indoor air sample IA-3 at Structure 3 by placing the duplicate canister and regulator immediately adjacent to the parent sample, and both canister valves were opened at the same time.

Samples were labeled, handled, and packaged in accordance with the protocols and procedures detailed in EA's Generic Quality Assurance Project Plan² and EA's Generic Field Activities Plan³. The Summa[®] canister and paired flow regulator identification numbers, sample identification number, collection date and time, and initial and final pressure from the handheld pressure gauge were recorded on the field sampling log, the sample label attached to each Summa[®] canister, and the chain-of-custody form. Samples were submitted to the SGS North America Inc., Dayton, New Jersey laboratory for analysis of VOCs by U.S. Environmental

Protection Agency Method TO-15. A copy of the chain-of-custody form is included in Attachment C.

4. ANALYTICAL RESULTS

Table 1 provides a summary of the soil vapor and air sample laboratory TO-15 analytes detected and included in the NYSDOH screening matrices, provided in Attachment C. Analytical results are illustrated in Figure 2. The full laboratory analytical report is included in Attachment D. A data usability summary report is included in Attachment E. The building and chemical inventory questionnaires are included in Attachment B.

The following analytes included in the NYSDOH screening matrices were either non-detect or found to be below screening levels at all sample locations: 1,1-dichloroethene, carbon tetrachloride, *cis*-1,2-dichloroethylene, and vinyl chloride.

The following analytes were detected at concentrations that triggered the “no further action” decision within the NYSDOH SVI Decision Matrices: 1,1,1-trichloroethane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, cyclohexane, ethylbenzene, *m,p*-xylene, methylene chloride, *n*-hexane, *o*-xylene, tetrachloroethylene, and toluene.

Concentrations of 2,2,4-trimethylpentane in Structure 3’s indoor air sample (12 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) were above the $10 \mu\text{g}/\text{m}^3$ high screening level for indoor air, which triggers the recommendation to identify the source of the compound, mitigate, and resample according to the NYSDOH SVI Decision Matrices. The concentration of 2,2,4-trimethylpentane in Structure 4’s indoor air sample ($6.1 \mu\text{g}/\text{m}^3$) was above the $2 \mu\text{g}/\text{m}^3$ NYSDOH SVI Matrix low screening level for indoor air; paired with a non-detect concentration in the crawl space sample, “no further action” is recommended at Structure 4. Concentrations of 2,2,4-trimethylpentane at all other locations were below applicable screening levels.

Benzene concentrations in indoor air samples collected from all locations except Structure 4 exceeded the indoor air low screening level ($2 \mu\text{g}/\text{m}^3$) but were below the indoor air high screening level ($10 \mu\text{g}/\text{m}^3$) in the NYSDOH SVI Decision Matrix D. Paired with a non-detect concentration in all the sub-slab vapor samples, “no further action” is recommended at these locations. The concentration of benzene in the Structure 4 indoor air sample exceeded the high screening level, with a non-detect concentration in the crawl space sample, triggering the recommendation to identify the source of the compound, mitigate, and resample according to the NYSDOH SVI Decision Matrix D.

N-Heptane concentrations exceeded the NYSDOH SVI Decision Matrix E indoor air low screening level ($6 \mu\text{g}/\text{m}^3$) but were below the indoor air high screening level ($20 \mu\text{g}/\text{m}^3$) in Structure 4; paired with a non-detect concentration in the sub-slab vapor sample, “no further action” is recommended at Structure 4. The concentration of *n*-heptane exceeded the high screening level in the indoor air sample collected from Structure 3 with a concentration of $32 \mu\text{g}/\text{m}^3$, triggering the recommendation to identify the source of the compound, mitigate, and resample according to the NYSDOH SVI Decision Matrices.

Trichloroethylene (TCE) concentrations in both the indoor air and sub-slab soil vapor samples of Structure 1 exceeded the NYSDOH SVI Decision Matrix A low screening levels ($6 \mu\text{g}/\text{m}^3$ and $0.2 \mu\text{g}/\text{m}^3$, respectively) but were below the high screening levels ($60 \mu\text{g}/\text{m}^3$ and $1 \mu\text{g}/\text{m}^3$, respectively), which leads to a recommendation for additional monitoring. The indoor air concentration of TCE at Structure 2 exceeded the low screening level, with a non-detect concentration in the sub-slab vapor sample, triggering the recommendation to identify the source of the compound, mitigate, and resample according to the NYSDOH SVI Decision Matrices.

Comparison of the analytical results to the guidance criteria⁵ (Table 1 and Figure 2) indicates which samples meet NYSDOH decision matrix criteria for no further action, and which samples exceed screening criteria.

5. CONCLUSIONS

Based on comparison of the SVI sampling event analytical results to the NYSDOH Decision Matrices, EA concludes that:

- Concentrations of 2,2,4-trimethylpentane and n-heptane in the Structure 3 indoor air sample triggered “identify source(s) or resample” or “mitigate”. Both analytes are ingredients of gasoline, and there was gasoline-powered equipment in Structure 3 (Attachment A). Although other VOCs were identified in the sub-slab soil vapor sample at this location, they were not in the indoor air sample and were not at concentrations high enough to trigger further action. Therefore, EA does not recommend further action to monitor or mitigate n-heptane or 2,2,4-trimethylpentane as a source has been identified.
- The concentration of benzene in the Structure 4 indoor air sample triggered “identify source(s) or resample” or “mitigate”. Scented laundry detergents are known to contain benzene, which were present in the room sampled (Attachment A). No VOCs were detected in the crawl space sample at this location, and no other VOC was detected at concentrations triggering action according to the decision matrices; therefore, EA does not recommend further action to monitor or mitigate benzene as a source has been identified.
- The concentration of TCE in the Structure 2 indoor air sample triggered “identify source(s) or resample” or “mitigate”. Although TCE has been identified in soil and groundwater at the Site, there was no TCE detected in the sub-slab soil vapor sample at Structure 2. EA recommends further action to identify the source; if the source is not identified, Structure 2 should be resampled.

⁵ NYSDOH. 2024. *Soil Vapor Intrusion Guidance and Updates*. February.

- The concentrations of TCE in the Structure 1 indoor air and sub-slab soil vapor samples triggered the recommendation to further monitor concentrations of TCE in indoor air and sub-slab soil vapor, in accordance with the NYSDOH SVI Decision Matrix.

If you have any questions, please do not hesitate to contact me at 315-565-6557.

Sincerely yours,

Megan Miller, EIT
Project Manager

Tables

1	Air Analytical Results—VOCs

Figures

1	Site Layout and Structure Locations
2	Soil Vapor Intrusion Analytical Results

Attachments

A	Daily Field Reports
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C	New York State Department of Health Soil Vapor Intrusion Screening Matrices
D	Analytical Laboratory Report
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Tables

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Location Sample Name Sample Matrix Sample Date		NYSDOH Guidance ^(a)	Structure 1 754020-IA-1-2182025 Indoor Air 2/18/2025		Structure 1 754020-SS-1-2182025 Sub-Slab Soil Vapor 2/18/2025		
Analyte	Unit		Result	Qualifier	Result	Qualifier	Action
VOCs (TO15)							
1,1,1-Trichloroethane (TCA)	µg/m ³	Matrix B	< 0.43	U	2.9		NFA
1,1,2,2-Tetrachloroethane	µg/m ³		< 0.33	U	< 1.3	U	NA
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/m ³		1.2		260		NA
1,1,2-Trichloroethane	µg/m ³		< 0.21	U	< 0.82	U	NA
1,1-Dichloroethane	µg/m ³		< 0.23	U	< 0.93	U	NA
1,1-Dichloroethene	µg/m ³	Matrix A	< 0.23	U	< 0.95	U	NFA
1,2,4-Trichlorobenzene	µg/m ³		< 0.89	U	< 3.6	U	NA
1,2,4-Trimethylbenzene	µg/m ³	Matrix D	< 0.43	U	< 1.7	U	NFA
1,2-Dibromoethane (Ethylene Dibromide)	µg/m ³		< 0.23	U	< 0.92	U	NA
1,2-Dichlorobenzene	µg/m ³		< 0.41	U	< 1.7	U	NA
1,2-Dichloroethane	µg/m ³		< 0.28	U	< 1.1	U	NA
1,2-Dichloropropane	µg/m ³		< 0.29	U	< 1.2	U	NA
1,2-Dichlorotetrafluoroethane	µg/m ³		< 0.35	U	< 1.4	U	NA
1,3,5-Trimethylbenzene (Mesitylene)	µg/m ³	Matrix D	< 0.39	U	< 1.6	U	NFA
1,3-Butadiene	µg/m ³		< 0.19	U	< 0.75	U	NA
1,3-Dichlorobenzene	µg/m ³		< 0.78	U	< 3.2	U	NA
1,4-Dichlorobenzene	µg/m ³		< 0.47	U	< 1.9	U	NA
1,4-Dioxane (P-Dioxane)	µg/m ³		< 0.17	U	< 0.68	U	NA
2,2,4-Trimethylpentane	µg/m ³	Matrix D	< 0.19	U	< 0.75	U	NFA
2-Chlorotoluene	µg/m ³		< 0.37	U	< 1.5	U	NA
2-Hexanone	µg/m ³		< 0.61	U	< 2.4	U	NA
4-Ethyltoluene	µg/m ³		< 0.47	U	< 1.9	U	NA
Acetone	µg/m ³		9.7		8.8		NA
Allyl Chloride (3-Chloropropene)	µg/m ³		< 0.26	U	< 1.0	U	NA
Benzene	µg/m ³	Matrix D	0.45	J	< 0.61	U	NFA
Benzyl Chloride	µg/m ³		< 0.67	U	< 2.6	U	NA
Bromodichloromethane	µg/m ³		< 0.20	U	< 0.80	U	NA
Bromoform	µg/m ³		< 0.73	U	< 2.9	U	NA
Bromomethane	µg/m ³		< 0.27	U	< 1.1	U	NA
Carbon Disulfide	µg/m ³		< 0.14	U	< 0.56	U	NA
Carbon Tetrachloride	µg/m ³	Matrix A	< 0.25	U	< 1.0	U	NFA
Chlorobenzene	µg/m ³		< 0.34	U	< 1.4	U	NA
Chloroethane	µg/m ³		< 0.18	U	< 0.71	U	NA
Chloroform	µg/m ³		< 0.18	U	< 0.73	U	NA
Chloromethane (Methyl Chloride)	µg/m ³		1.3		< 0.74	U	NA
Cis -1,2-Dichloroethylene	µg/m ³	Matrix A	< 0.12	U	< 0.48	U	NFA
Cis -1,3-Dichloropropene	µg/m ³		< 0.28	U	< 1.1	U	NA
Cyclohexane	µg/m ³	Matrix D	< 0.15	U	1.4	J	NFA
Dibromochloromethane	µg/m ³		< 0.44	U	< 1.8	U	NA
Dichlorodifluoromethane	µg/m ³		2.4		< 2.1	U	NA
Ethanol	µg/m ³		19		< 3.0	U	NA
Ethyl Acetate	µg/m ³		0.86		< 1.5	U	NA
Ethylbenzene	µg/m ³	Matrix D	0.83	J	< 1.0	U	NFA
Hexachlorobutadiene	µg/m ³		< 0.66	U	< 2.7	U	NA
Isopropanol	µg/m ³		2.3		< 1.4	U	NA
M,P-Xylene (Sum Of Isomers)	µg/m ³	Matrix E	< 0.61	U	< 2.4	U	NFA
Methyl Ethyl Ketone (2-Butanone)	µg/m ³		0.68		< 1.3	U	NA
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	µg/m ³		< 0.30	U	< 1.2	U	NA
Methyl Methacrylate	µg/m ³		< 0.29	U	< 1.1	U	NA
Methylene Chloride	µg/m ³	Matrix B	0.76		< 1.8	U	NFA
N-Heptane	µg/m ³	Matrix E	< 0.37	U	12		NFA
N-Hexane	µg/m ³	Matrix E	0.35	J	8.8		NFA
O-Xylene (1,2-Dimethylbenzene)	µg/m ³	Matrix D	< 0.33	U	< 1.3	U	NFA
Propylene	µg/m ³		< 0.24	U	< 0.98	U	NA
Styrene	µg/m ³		< 0.23	U	< 0.89	U	NA
Tert-Butyl Alcohol	µg/m ³		< 0.28	U	< 1.1	U	NA
Tert-Butyl Methyl Ether	µg/m ³		< 0.29	U	< 1.2	U	NA
Tetrachloroethylene (PCE)	µg/m ³	Matrix B	< 0.095	U	10		NFA
Tetrahydrofuran	µg/m ³		0.68		< 1.1	U	NA
Toluene	µg/m ³	Matrix F	< 0.21	U	3.5		NFA
Trans -1,2-Dichloroethene	µg/m ³		< 0.11	U	< 0.44	U	NA
Trans -1,3-Dichloropropene	µg/m ³		< 0.45	U	< 1.8	U	NA
Trichloroethylene (TCE)	µg/m ³	Matrix A	0.35		21		MO
Trichlorofluoromethane	µg/m ³		1.6		< 3.5	U	NA
Vinyl Acetate	µg/m ³		< 0.39	U	< 1.6	U	NA
Vinyl Bromide	µg/m ³		< 0.27	U	< 1.0	U	NA
Vinyl Chloride	µg/m ³	Matrix C	< 0.18	U	< 0.72	U	NFA
Xylenes	µg/m ³		< 0.33	U	< 1.3	U	NA

Notes:

(a) NYSDOH Ambient Air Guidelines and Immediate Action Levels are based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013, August 2015, and May 2017.

µg/m³ = microgram(s) per cubic meter
CS = crawl space air
IA = indoor air
IS = identify source(s) and resample or mitigate
J = concentration is estimated
MO = monitor
NA = not applicable
NFA = no further action
NYSDOH = New York State Department of Health
SS = sub-slab soil vapor
U = not detected at or above the method detection limit

Purple shading indicates that results were detected.

Green shading indication no further action is necessary.

Yellow shading indicates additional monitoring is required.

Orange shading indications that sources of compound should be identified and then resampling or mitigation should occur.

Red shading indicates that mitigation efforts are required.

Analytical data provided by SGS Nort America; Data validated by Environmental Data Services, Inc.

Location Sample Name Sample Matrix Sample Date		NYSDOH Guidance ^(a)	Structure 2 754020-IA-2-2182025 Indoor Air 2/18/2025		Structure 2 754020-SS-2-2182025 Sub-Slab Soil Vapor 2/18/2025		
Analyte	Unit		Result	Qualifier	Result	Qualifier	Action
VOCs (TO15)							
1,1,1-Trichloroethane (TCA)	µg/m ³	Matrix B	< 0.43	U	< 1.7	U	NFA
1,1,2,2-Tetrachloroethane	µg/m ³		< 0.33	U	< 1.3	U	NA
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/m ³		< 0.24	U	< 0.92	U	NA
1,1,2-Trichloroethane	µg/m ³		< 0.21	U	< 0.82	U	NA
1,1-Dichloroethane	µg/m ³		< 0.23	U	< 0.93	U	NA
1,1-Dichloroethene	µg/m ³	Matrix A	< 0.23	U	< 0.95	U	NFA
1,2,4-Trichlorobenzene	µg/m ³		< 0.89	U	< 3.6	U	NA
1,2,4-Trimethylbenzene	µg/m ³	Matrix D	< 0.43	U	< 1.7	U	NFA
1,2-Dibromoethane (Ethylene Dibromide)	µg/m ³		< 0.23	U	< 0.92	U	NA
1,2-Dichlorobenzene	µg/m ³		< 0.41	U	< 1.7	U	NA
1,2-Dichloroethane	µg/m ³		< 0.28	U	< 1.1	U	NA
1,2-Dichloropropane	µg/m ³		< 0.29	U	< 1.2	U	NA
1,2-Dichlorotetrafluoroethane	µg/m ³		< 0.35	U	< 1.4	U	NA
1,3,5-Trimethylbenzene (Mesitylene)	µg/m ³	Matrix D	< 0.39	U	< 1.6	U	NFA
1,3-Butadiene	µg/m ³		< 0.19	U	< 0.75	U	NA
1,3-Dichlorobenzene	µg/m ³		< 0.78	U	< 3.2	U	NA
1,4-Dichlorobenzene	µg/m ³		< 0.47	U	< 1.9	U	NA
1,4-Dioxane (P-Dioxane)	µg/m ³		< 0.17	U	< 0.68	U	NA
2,2,4-Trimethylpentane	µg/m ³	Matrix D	< 0.19	U	< 0.75	U	NFA
2-Chlorotoluene	µg/m ³		< 0.37	U	< 1.5	U	NA
2-Hexanone	µg/m ³		< 0.61	U	< 2.4	U	NA
4-Ethyltoluene	µg/m ³		< 0.47	U	< 1.9	U	NA
Acetone	µg/m ³		16		4		NA
Allyl Chloride (3-Chloropropene)	µg/m ³		< 0.26	U	< 1.0	U	NA
Benzene	µg/m ³	Matrix D	0.45	J	< 0.61	U	NFA
Benzyl Chloride	µg/m ³		< 0.67	U	< 2.6	U	NA
Bromodichloromethane	µg/m ³		< 0.20	U	< 0.80	U	NA
Bromoform	µg/m ³		< 0.73	U	< 2.9	U	NA
Bromomethane	µg/m ³		< 0.27	U	< 1.1	U	NA
Carbon Disulfide	µg/m ³		< 0.14	U	< 0.56	U	NA
Carbon Tetrachloride	µg/m ³	Matrix A	< 0.25	U	< 1.0	U	NFA
Chlorobenzene	µg/m ³		< 0.34	U	< 1.4	U	NA
Chloroethane	µg/m ³		< 0.18	U	< 0.71	U	NA
Chloroform	µg/m ³		< 0.18	U	< 0.73	U	NA
Chloromethane (Methyl Chloride)	µg/m ³		1.4		< 0.74	U	NA
Cis -1,2-Dichloroethylene	µg/m ³	Matrix A	< 0.12	U	< 0.48	U	NFA
Cis -1,3-Dichloropropene	µg/m ³		< 0.28	U	< 1.1	U	NA
Cyclohexane	µg/m ³	Matrix D	< 0.15	U	< 0.62	U	NFA
Dibromochloromethane	µg/m ³		< 0.44	U	< 1.8	U	NA
Dichlorodifluoromethane	µg/m ³		2.4		< 2.1	U	NA
Ethanol	µg/m ³		37.3		< 3.0	U	NA
Ethyl Acetate	µg/m ³		19		3.5		NA
Ethylbenzene	µg/m ³	Matrix D	< 0.26	U	< 1.0	U	NFA
Hexachlorobutadiene	µg/m ³		< 0.66	U	< 2.7	U	NA
Isopropanol	µg/m ³		5.4		< 1.4	U	NA
M,P-Xylene (Sum Of Isomers)	µg/m ³	Matrix E	< 0.61	U	< 2.4	U	NFA
Methyl Ethyl Ketone (2-Butanone)	µg/m ³		0.65		< 1.3	U	NA
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	µg/m ³		< 0.30	U	< 1.2	U	NA
Methyl Methacrylate	µg/m ³		< 0.29	U	< 1.1	U	NA
Methylene Chloride	µg/m ³	Matrix B	1.5		< 1.8	U	NFA
N-Heptane	µg/m ³	Matrix E	< 0.37	U	< 1.5	U	NFA
N-Hexane	µg/m ³	Matrix E	0.74		< 0.74	U	NFA
O-Xylene (1,2-Dimethylbenzene)	µg/m ³	Matrix D	< 0.33	U	< 1.3	U	NFA
Propylene	µg/m ³		< 0.24	U	< 0.98	U	NA
Styrene	µg/m ³		< 0.23	U	< 0.89	U	NA
Tert-Butyl Alcohol	µg/m ³		0.42	J	< 1.1	U	NA
Tert-Butyl Methyl Ether	µg/m ³		< 0.29	U	< 1.2	U	NA
Tetrachloroethylene (PCE)	µg/m ³	Matrix B	1		131		NFA
Tetrahydrofuran	µg/m ³		< 0.27	U	< 1.1	U	NA
Toluene	µg/m ³	Matrix F	1.2		< 0.87	U	NFA
Trans -1,2-Dichloroethene	µg/m ³		< 0.11	U	< 0.44	U	NA
Trans -1,3-Dichloropropene	µg/m ³		< 0.45	U	< 1.8	U	NA
Trichloroethylene (TCE)	µg/m ³	Matrix A	1		< 0.41	U	IS
Trichlorofluoromethane	µg/m ³		1.7		< 3.5	U	NA
Vinyl Acetate	µg/m ³		0.91		< 1.6	U	NA
Vinyl Bromide	µg/m ³		< 0.27	U	< 1.0	U	NA
Vinyl Chloride	µg/m ³	Matrix C	< 0.18	U	< 0.72	U	NFA
Xylenes	µg/m ³		< 0.33	U	< 1.3	U	NA

Notes:

(a) NYSDOH Ambient Air Guidelines and Immediate Action Levels are based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013, August 2015, and May 2017.

µg/m³ = microgram(s) per cubic meter
CS = crawl space air
IA = indoor air
IS = identify source(s) and resample or mitigate
J = concentration is estimated
MO = monitor
NA = not applicable
NFA = no further action
NYSDOH = New York State Department of Health
SS = sub-slab soil vapor
U = not detected at or above the method detection limit

Purple shading indicates that results were detected.

Green shading indication no further action is necessary.

Yellow shading indicates additional monitoring is required.

Orange shading indications that sources of compound should be identified and then resampling or mitigation should occur.

Red shading indicates that mitigation efforts are required.

Analytical data provided by SGS Nort America; Data validated by Environmental Data Services, Inc.

Location Sample Name Sample Matrix Sample Date		NYSDOH Guidance ^(a)	Structure 3 754020-1A-3-2182025 Indoor Air 2/18/2025		Structure 3 754020-DUP-1-2182025 Indoor Air 2/18/2025		Structure 3 754020-SS-3-2182025 Sub-Slab Soil Vapor 2/18/2025		
Analyte	Unit		Result	Qualifier	Result	Qualifier	Result	Qualifier	Action
VOCs (TO15)									
1,1,1-Trichloroethane (TCA)	µg/m ³	Matrix B	< 0.43	U	< 0.43	U	< 1.7	U	NFA
1,1,2,2-Tetrachloroethane	µg/m ³		< 0.33	U	< 0.33	U	< 1.3	U	NA
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/m ³		< 0.24	U	< 0.24	U	< 0.92	U	NA
1,1,2-Trichloroethane	µg/m ³		< 0.21	U	< 0.21	U	< 0.82	U	NA
1,1-Dichloroethane	µg/m ³		< 0.23	U	< 0.23	U	< 0.93	U	NA
1,1-Dichloroethene	µg/m ³	Matrix A	< 0.23	U	< 0.23	U	< 0.95	U	NFA
1,2,4-Trichlorobenzene	µg/m ³		< 0.89	U	< 0.89	U	< 3.6	U	NA
1,2,4-Trimethylbenzene	µg/m ³	Matrix D	1.9		4.9		3.4	J	NFA
1,2-Dibromoethane (Ethylene Dibromide)	µg/m ³		< 0.23	U	< 0.23	U	< 0.92	U	NA
1,2-Dichlorobenzene	µg/m ³		< 0.41	U	< 0.41	U	< 1.7	U	NA
1,2-Dichloroethane	µg/m ³		< 0.28	U	< 0.28	U	< 1.1	U	NA
1,2-Dichloropropane	µg/m ³		< 0.29	U	< 0.29	U	< 1.2	U	NA
1,2-Dichlorotetrafluoroethane	µg/m ³		< 0.35	U	< 0.35	U	< 1.4	U	NA
1,3,5-Trimethylbenzene (Mesitylene)	µg/m ³	Matrix D	0.59	J	1.4		< 1.6	U	NFA
1,3-Butadiene	µg/m ³		< 0.19	U	< 0.19	U	< 0.75	U	NA
1,3-Dichlorobenzene	µg/m ³		< 0.78	U	< 0.78	U	< 3.2	U	NA
1,4-Dichlorobenzene	µg/m ³		< 0.47	U	< 0.47	U	< 1.9	U	NA
1,4-Dioxane (P-Dioxane)	µg/m ³		< 0.17	U	< 0.17	U	< 0.68	U	NA
2,2,4-Trimethylpentane	µg/m ³	Matrix D	12		14		< 0.75	U	IS
2-Chlorotoluene	µg/m ³		< 0.37	U	< 0.37	U	< 1.5	U	NA
2-Hexanone	µg/m ³		< 0.61	U	< 0.61	U	< 2.4	U	NA
4-Ethyltoluene	µg/m ³		0.59	J	1.4		< 1.9	U	NA
Acetone	µg/m ³		1390		3180		25.2		NA
Allyl Chloride (3-Chloropropene)	µg/m ³		< 0.26	U	< 0.26	U	< 1.0	U	NA
Benzene	µg/m ³	Matrix D	0.89		1.2		2	J	NFA
Benzyl Chloride	µg/m ³		< 0.67	U	< 0.67	U	< 2.6	U	NA
Bromodichloromethane	µg/m ³		< 0.20	U	< 0.20	U	< 0.80	U	NA
Bromoform	µg/m ³		< 0.73	U	< 0.73	U	< 2.9	U	NA
Bromomethane	µg/m ³		< 0.27	U	< 0.27	U	< 1.1	U	NA
Carbon Disulfide	µg/m ³		< 0.14	U	< 0.14	U	< 0.56	U	NA
Carbon Tetrachloride	µg/m ³	Matrix A	< 0.25	U	< 0.25	U	< 1.0	U	NFA
Chlorobenzene	µg/m ³		< 0.34	U	< 0.34	U	< 1.4	U	NA
Chloroethane	µg/m ³		< 0.18	U	< 0.18	U	< 0.71	U	NA
Chloroform	µg/m ³		< 0.18	U	< 0.18	U	< 0.73	U	NA
Chloromethane (Methyl Chloride)	µg/m ³		1.6		1.6		< 0.74	U	NA
Cis -1,2-Dichloroethylene	µg/m ³	Matrix A	< 0.12	U	< 0.12	U	< 0.48	U	NFA
Cis -1,3-Dichloropropene	µg/m ³		< 0.28	U	< 0.28	U	< 1.1	U	NA
Cyclohexane	µg/m ³	Matrix D	2.5		5.2		< 0.62	U	NFA
Dibromochloromethane	µg/m ³		< 0.44	U	< 0.44	U	< 1.8	U	NA
Dichlorodifluoromethane	µg/m ³		2.7		2.7		< 2.1	U	NA
Ethanol	µg/m ³		33.7		32.2		4		NA
Ethyl Acetate	µg/m ³		0.47	J	50.4	J	4		NA
Ethylbenzene	µg/m ³	Matrix D	1.1		1.5		< 1.0	U	NFA
Hexachlorobutadiene	µg/m ³		< 0.66	U	< 0.66	U	< 2.7	U	NA
Isopropanol	µg/m ³		1.5		2.5		1.6	J	NA
M,P-Xylene (Sum Of Isomers)	µg/m ³	Matrix E	3.9		5.2		< 2.4	U	NFA
Methyl Ethyl Ketone (2-Butanone)	µg/m ³		0.68		0.68		2.6		NA
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	µg/m ³		< 0.30	U	< 0.30	U	< 1.2	U	NA
Methyl Methacrylate	µg/m ³		< 0.29	U	< 0.29	U	< 1.1	U	NA
Methylene Chloride	µg/m ³	Matrix B	0.8		1.3		< 1.8	U	NFA
N-Heptane	µg/m ³	Matrix E	32		79.5		< 1.5	U	IS
N-Hexane	µg/m ³	Matrix E	2.3		3.5		1.5	J	NFA
O-Xylene (1,2-Dimethylbenzene)	µg/m ³	Matrix D	1.6		2.3		< 1.3	U	NFA
Propylene	µg/m ³		< 0.24	U	< 0.24	U	< 0.98	U	NA
Styrene	µg/m ³		< 0.23	U	< 0.23	U	< 0.89	U	NA
Tert-Butyl Alcohol	µg/m ³		< 0.28	U	< 0.28	U	< 1.1	U	NA
Tert-Butyl Methyl Ether	µg/m ³		< 0.29	U	< 0.29	U	< 1.2	U	NA
Tetrachloroethylene (PCE)	µg/m ³	Matrix B	< 0.095	U	1.2		142		NFA
Tetrahydrofuran	µg/m ³		< 0.27	U	< 0.27	U	< 1.1	U	NA
Toluene	µg/m ³	Matrix F	8.3		14		2.7	J	NFA
Trans -1,2-Dichloroethene	µg/m ³		< 0.11	U	< 0.11	U	< 0.44	U	NA
Trans -1,3-Dichloropropene	µg/m ³		< 0.45	U	< 0.45	U	< 1.8	U	NA
Trichloroethylene (TCE)	µg/m ³	Matrix A	< 0.10	U	0.2	J	4.3		NFA
Trichlorofluoromethane	µg/m ³		1.5		1.5		< 3.5	U	NA
Vinyl Acetate	µg/m ³		< 0.39	U	< 0.39	U	< 1.6	U	NA
Vinyl Bromide	µg/m ³		< 0.27	U	< 0.27	U	< 1.0	U	NA
Vinyl Chloride	µg/m ³	Matrix C	< 0.18	U	< 0.18	U	< 0.72	U	NFA
Xylenes	µg/m ³		5.5		7.5		< 1.3	U	NA

Notes:

(a) NYSDOH Ambient Air Guidelines and Immediate Action Levels are based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013, August 2015, and May 2017.

µg/m³ = microgram(s) per cubic meter
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J = concentration is estimated
MO = monitor
NA = not applicable
NFA = no further action
NYSDOH = New York State Department of Health
SS = sub-slab soil vapor
U = not detected at or above the method detection limit

Purple shading indicates that results were detected.

Green shading indication no further action is necessary.

Yellow shading indicates additional monitoring is required.

Orange shading indications that sources of compound should be identified and then resampling or mitigation should occur.

Red shading indicates that mitigation efforts are required.

Analytical data provided by SGS Nort America; Data validated by Environmental Data Services, Inc.

Table 1. Air Analytical Results—VOCs

Location Sample Name Sample Matrix Sample Date		NYSDOH Guidance ^(a)	Structure 4 754020-IA-4-2182025 Indoor Air 2/18/2025		Structure 4 754020-CS-4-2182025 Crawl Space Air 2/18/2025		
Analyte	Unit		Result	Qualifier	Result	Qualifier	Action
VOCs (TO15)							
1,1,1-Trichloroethane (TCA)	µg/m ³	Matrix B	< 0.43	U	< 1.7	U	NFA
1,1,1,2-Tetrachloroethane	µg/m ³		< 0.33	U	< 1.3	U	NA
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/m ³		< 0.24	U	< 0.92	U	NA
1,1,2-Trichloroethane	µg/m ³		< 0.21	U	< 0.82	U	NA
1,1-Dichloroethane	µg/m ³		< 0.23	U	< 0.93	U	NA
1,1-Dichloroethene	µg/m ³	Matrix A	< 0.23	U	< 0.95	U	NFA
1,2,4-Trichlorobenzene	µg/m ³		< 0.89	U	< 3.6	U	NA
1,2,4-Trimethylbenzene	µg/m ³	Matrix D	0.69	J	< 1.7	U	NFA
1,2-Dibromoethane (Ethylene Dibromide)	µg/m ³		< 0.23	U	< 0.92	U	NA
1,2-Dichlorobenzene	µg/m ³		< 0.41	U	< 1.7	U	NA
1,2-Dichloroethane	µg/m ³		< 0.28	U	< 1.1	U	NA
1,2-Dichloropropane	µg/m ³		< 0.29	U	< 1.2	U	NA
1,2-Dichlorotetrafluoroethane	µg/m ³		< 0.35	U	< 1.4	U	NA
1,3,5-Trimethylbenzene (Mesitylene)	µg/m ³	Matrix D	< 0.39	U	< 1.6	U	NFA
1,3-Butadiene	µg/m ³		13		< 0.75	U	NA
1,3-Dichlorobenzene	µg/m ³		< 0.78	U	< 3.2	U	NA
1,4-Dichlorobenzene	µg/m ³		< 0.47	U	< 1.9	U	NA
1,4-Dioxane (P-Dioxane)	µg/m ³		< 0.17	U	< 0.68	U	NA
2,2,4-Trimethylpentane	µg/m ³	Matrix D	6.1		< 0.75	U	NFA
2-Chlorotoluene	µg/m ³		< 0.37	U	< 1.5	U	NA
2-Hexanone	µg/m ³		< 0.61	U	< 2.4	U	NA
4-Ethyltoluene	µg/m ³		< 0.47	U	< 1.9	U	NA
Acetone	µg/m ³		99.3		3.1		NA
Allyl Chloride (3-Chloropropene)	µg/m ³		< 0.26	U	< 1.0	U	NA
Benzene	µg/m ³	Matrix D	18		< 0.61	U	IS
Benzyl Chloride	µg/m ³		< 0.67	U	< 2.6	U	NA
Bromodichloromethane	µg/m ³		< 0.20	U	< 0.80	U	NA
Bromoform	µg/m ³		< 0.73	U	< 2.9	U	NA
Bromomethane	µg/m ³		< 0.27	U	< 1.1	U	NA
Carbon Disulfide	µg/m ³		< 0.14	U	< 0.56	U	NA
Carbon Tetrachloride	µg/m ³	Matrix A	< 0.25	U	< 1.0	U	NFA
Chlorobenzene	µg/m ³		< 0.34	U	< 1.4	U	NA
Chloroethane	µg/m ³		< 0.18	U	< 0.71	U	NA
Chloroform	µg/m ³		0.68	J	< 0.73	U	NA
Chloromethane (Methyl Chloride)	µg/m ³		1.3		0.97	J	NA
Cis -1,2-Dichloroethylene	µg/m ³	Matrix A	< 0.12	U	< 0.48	U	NFA
Cis -1,3-Dichloropropene	µg/m ³		< 0.28	U	< 1.1	U	NA
Cyclohexane	µg/m ³	Matrix D	0.45	J	< 0.62	U	NFA
Dibromochloromethane	µg/m ³		< 0.44	U	< 1.8	U	NA
Dichlorodifluoromethane	µg/m ³		2.4		< 2.1	U	NA
Ethanol	µg/m ³		48.6		< 3.0	U	NA
Ethyl Acetate	µg/m ³		< 0.36	U	8.6		NA
Ethylbenzene	µg/m ³	Matrix D	0.61	J	< 1.0	U	NFA
Hexachlorobutadiene	µg/m ³		< 0.66	U	< 2.7	U	NA
Isopropanol	µg/m ³		12		< 1.4	U	NA
M,P-Xylene (Sum Of Isomers)	µg/m ³	Matrix E	1.7		< 2.4	U	NFA
Methyl Ethyl Ketone (2-Butanone)	µg/m ³		1.2		< 1.3	U	NA
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	µg/m ³		< 0.30	U	< 1.2	U	NA
Methyl Methacrylate	µg/m ³		< 0.29	U	< 1.1	U	NA
Methylene Chloride	µg/m ³	Matrix B	0.83		< 1.8	U	NFA
N-Heptane	µg/m ³	Matrix E	2		< 1.5	U	NFA
N-Hexane	µg/m ³	Matrix E	1.1		< 0.74	U	NFA
O-Xylene (1,2-Dimethylbenzene)	µg/m ³	Matrix D	0.69	J	< 1.3	U	NFA
Propylene	µg/m ³		< 0.24	U	< 0.98	U	NA
Styrene	µg/m ³		< 0.23	U	< 0.89	U	NA
Tert-Butyl Alcohol	µg/m ³		< 0.28	U	< 1.1	U	NA
Tert-Butyl Methyl Ether	µg/m ³		< 0.29	U	< 1.2	U	NA
Tetrachloroethylene (PCE)	µg/m ³	Matrix B	< 0.095	U	< 0.38	U	NFA
Tetrahydrofuran	µg/m ³		< 0.27	U	< 1.1	U	NA
Toluene	µg/m ³	Matrix F	3.5		< 0.87	U	NFA
Trans -1,2-Dichloroethene	µg/m ³		< 0.11	U	< 0.44	U	NA
Trans -1,3-Dichloropropene	µg/m ³		< 0.45	U	< 1.8	U	NA
Trichloroethylene (TCE)	µg/m ³	Matrix A	< 0.10	U	< 0.41	U	NFA
Trichlorofluoromethane	µg/m ³		1.6		< 3.5	U	NA
Vinyl Acetate	µg/m ³		< 0.39	U	< 1.6	U	NA
Vinyl Bromide	µg/m ³		< 0.27	U	< 1.0	U	NA
Vinyl Chloride	µg/m ³	Matrix C	< 0.18	U	< 0.72	U	NFA
Xylenes	µg/m ³		2.4		< 1.3	U	NA

Notes:

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µg/m³ = microgram(s) per cubic meter
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Purple shading indicates that results were detected.

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Red shading indicates that mitigation efforts are required.

Analytical data provided by SGS Nort America; Data validated by Environmental Data Services, Inc.

Location Sample Name Sample Matrix Sample Date		NYSDOH Guidance ^(a)	Structure 5 754020-IA-5-2182025 Indoor Air 2/18/2025		Structure 5 754020-DUP-2-2182025 Indoor Air 2/18/2025		Structure 5 754020-SS-5-2182025 Sub-Slab Soil Vapor 2/18/2025		
Analyte	Unit		Result	Qualifier	Result	Qualifier	Result	Qualifier	Action
VOCs (TO15)									
1,1,1-Trichloroethane (TCA)	µg/m ³	Matrix B	1.2		0.98		< 1.7	U	NFA
1,1,2,2-Tetrachloroethane	µg/m ³		< 0.33	U	< 0.33	U	< 1.3	U	NA
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/m ³		< 0.24	U	< 0.24	U	< 0.92	U	NA
1,1,2-Trichloroethane	µg/m ³		< 0.21	U	< 0.21	U	< 0.82	U	NA
1,1-Dichloroethane	µg/m ³		< 0.23	U	< 0.23	U	< 0.93	U	NA
1,1-Dichloroethene	µg/m ³	Matrix A	< 0.23	U	< 0.23	U	< 0.95	U	NFA
1,2,4-Trichlorobenzene	µg/m ³		< 0.89	U	< 0.89	U	< 3.6	U	NA
1,2,4-Trimethylbenzene	µg/m ³	Matrix D	< 0.43	U	< 0.43	U	< 1.7	U	NFA
1,2-Dibromoethane (Ethylene Dibromide)	µg/m ³		< 0.23	U	< 0.23	U	< 0.92	U	NA
1,2-Dichlorobenzene	µg/m ³		< 0.41	U	< 0.41	U	< 1.7	U	NA
1,2-Dichloroethane	µg/m ³		< 0.28	U	< 0.28	U	< 1.1	U	NA
1,2-Dichloropropane	µg/m ³		< 0.29	U	< 0.29	U	< 1.2	U	NA
1,2-Dichlorotetrafluoroethane	µg/m ³		< 0.35	U	< 0.35	U	< 1.4	U	NA
1,3,5-Trimethylbenzene (Mesitylene)	µg/m ³	Matrix D	< 0.39	U	< 0.39	U	< 1.6	U	NFA
1,3-Butadiene	µg/m ³		< 0.19	U	< 0.19	U	< 0.75	U	NA
1,3-Dichlorobenzene	µg/m ³		< 0.78	U	< 0.78	U	< 3.2	U	NA
1,4-Dichlorobenzene	µg/m ³		< 0.47	U	< 0.47	U	< 1.9	U	NA
1,4-Dioxane (P-Dioxane)	µg/m ³		< 0.17	U	< 0.17	U	< 0.68	U	NA
2,2,4-Trimethylpentane	µg/m ³	Matrix D	< 0.19	U	< 0.19	U	< 0.75	U	NFA
2-Chlorotoluene	µg/m ³		< 0.37	U	< 0.37	U	< 1.5	U	NA
2-Hexanone	µg/m ³		< 0.61	U	< 0.61	U	< 2.4	U	NA
4-Ethyltoluene	µg/m ³		< 0.47	U	< 0.47	U	< 1.9	U	NA
Acetone	µg/m ³		27.8		28.5		5.9		NA
Allyl Chloride (3-Chloropropene)	µg/m ³		< 0.26	U	< 0.26	U	< 1.0	U	NA
Benzene	µg/m ³	Matrix D	0.45	J	0.42	J	< 0.61	U	NFA
Benzyl Chloride	µg/m ³		< 0.67	U	< 0.67	U	< 2.6	U	NA
Bromodichloromethane	µg/m ³		< 0.20	U	< 0.20	U	< 0.80	U	NA
Bromoform	µg/m ³		< 0.73	U	< 0.73	U	< 2.9	U	NA
Bromomethane	µg/m ³		< 0.27	U	< 0.27	U	< 1.1	U	NA
Carbon Disulfide	µg/m ³		< 0.14	U	< 0.14	U	< 0.56	U	NA
Carbon Tetrachloride	µg/m ³	Matrix A	< 0.25	U	< 0.25	U	< 1.0	U	NFA
Chlorobenzene	µg/m ³		< 0.34	U	< 0.34	U	< 1.4	U	NA
Chloroethane	µg/m ³		< 0.18	U	< 0.18	U	< 0.71	U	NA
Chloroform	µg/m ³		0.98		1.1		< 0.73	U	NA
Chloromethane (Methyl Chloride)	µg/m ³		< 0.19	U	< 0.19	U	< 0.74	U	NA
Cis -1,2-Dichloroethylene	µg/m ³	Matrix A	< 0.12	U	< 0.12	U	< 0.48	U	NFA
Cis -1,3-Dichloropropene	µg/m ³		< 0.28	U	< 0.28	U	< 1.1	U	NA
Cyclohexane	µg/m ³	Matrix D	< 0.15	U	< 0.15	U	< 0.62	U	NFA
Dibromochloromethane	µg/m ³		< 0.44	U	< 0.44	U	< 1.8	U	NA
Dichlorodifluoromethane	µg/m ³		0.49	J	< 0.49	U	< 2.1	U	NA
Ethanol	µg/m ³		2.4		2.3		< 3.0	U	NA
Ethyl Acetate	µg/m ³		7.9		7.9		3.5		NA
Ethylbenzene	µg/m ³	Matrix D	< 0.26	U	< 0.26	U	< 1.0	U	NFA
Hexachlorobutadiene	µg/m ³		< 0.66	U	< 0.66	U	< 2.7	U	NA
Isopropanol	µg/m ³		0.96		1.2		< 1.4	U	NA
M,P-Xylene (Sum Of Isomers)	µg/m ³	Matrix E	< 0.61	U	< 0.61	U	< 2.4	U	NFA
Methyl Ethyl Ketone (2-Butanone)	µg/m ³		1.2		0.97		< 1.3	U	NA
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	µg/m ³		< 0.30	U	< 0.30	U	< 1.2	U	NA
Methyl Methacrylate	µg/m ³		< 0.29	U	< 0.29	U	< 1.1	U	NA
Methylene Chloride	µg/m ³	Matrix B	1.1		0.97		< 1.8	U	NFA
N-Heptane	µg/m ³	Matrix E	< 0.37	U	< 0.37	U	< 1.5	U	NFA
N-Hexane	µg/m ³	Matrix E	1.1		0.85		< 0.74	U	NFA
O-Xylene (1,2-Dimethylbenzene)	µg/m ³	Matrix D	< 0.33	U	< 0.33	U	< 1.3	U	NFA
Propylene	µg/m ³		< 0.24	U	< 0.24	U	< 0.98	U	NA
Styrene	µg/m ³		< 0.23	U	< 0.23	U	< 0.89	U	NA
Tert-Butyl Alcohol	µg/m ³		0.36	J	0.36	J	< 1.1	U	NA
Tert-Butyl Methyl Ether	µg/m ³		< 0.29	U	< 0.29	U	< 1.2	U	NA
Tetrachloroethylene (PCE)	µg/m ³	Matrix B	< 0.095	U	< 0.095	U	< 0.38	U	NFA
Tetrahydrofuran	µg/m ³		7.4		7.4		< 1.1	U	NA
Toluene	µg/m ³	Matrix F	< 0.21	U	< 0.21	U	< 0.87	U	NFA
Trans -1,2-Dichloroethene	µg/m ³		< 0.11	U	< 0.11	U	< 0.44	U	NA
Trans -1,3-Dichloropropene	µg/m ³		< 0.45	U	< 0.45	U	< 1.8	U	NA
Trichloroethylene (TCE)	µg/m ³	Matrix A	< 0.10	U	< 0.10	U	< 0.41	U	NFA
Trichlorofluoromethane	µg/m ³		2.6		2.4		< 3.5	U	NA
Vinyl Acetate	µg/m ³		< 0.39	U	< 0.39	U	< 1.6	U	NA
Vinyl Bromide	µg/m ³		< 0.27	U	< 0.27	U	< 1.0	U	NA
Vinyl Chloride	µg/m ³	Matrix C	< 0.18	U	< 0.18	U	< 0.72	U	NFA
Xylenes	µg/m ³		< 0.33	U	< 0.33	U	< 1.3	U	NA

Notes:

(a) NYSDOH Ambient Air Guidelines and Immediate Action Levels are based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013, August 2015, and May 2017.

µg/m³ = microgram(s) per cubic meter
CS = crawl space air
IA = indoor air
IS = identify source(s) and resample or mitigate
J = concentration is estimated
MO = monitor
NA = not applicable
NFA = no further action
NYSDOH = New York State Department of Health
SS = sub-slab soil vapor
U = not detected at or above the method detection limit

Purple shading indicates that results were detected.

Green shading indication no further action is necessary.

Yellow shading indicates additional monitoring is required.

Orange shading indications that sources of compound should be identified and then resampling or mitigation should occur.

Red shading indicates that mitigation efforts are required.

Analytical data provided by SGS Nort America; Data validated by Environmental Data Services, Inc.

Location Sample Name Sample Matrix Sample Date		NYSDOH Guidance ^(a)	Structure 6 754020-IA-6-2182025 Indoor Air 2/18/2025		Structure 6 754020-SS-6-2182025 Sub-Slab Soil Vapor 2/18/2025		
Analyte	Unit		Result	Qualifier	Result	Qualifier	Action
VOCs (TO15)							
1,1,1-Trichloroethane (TCA)	µg/m ³	Matrix B	0.76		< 1.7	U	NFA
1,1,2,2-Tetrachloroethane	µg/m ³		< 0.33	U	< 1.3	U	NA
1,1,2-Trichloro-1,2,2-Trifluoroethane	µg/m ³		< 0.24	U	< 0.92	U	NA
1,1,2-Trichloroethane	µg/m ³		< 0.21	U	< 0.82	U	NA
1,1-Dichloroethane	µg/m ³		< 0.23	U	< 0.93	U	NA
1,1-Dichloroethene	µg/m ³	Matrix A	< 0.23	U	< 0.95	U	NFA
1,2,4-Trichlorobenzene	µg/m ³		< 0.89	U	< 3.6	U	NA
1,2,4-Trimethylbenzene	µg/m ³	Matrix D	< 0.43	U	2.4	J	NFA
1,2-Dibromoethane (Ethylene Dibromide)	µg/m ³		< 0.23	U	< 0.92	U	NA
1,2-Dichlorobenzene	µg/m ³		< 0.41	U	< 1.7	U	NA
1,2-Dichloroethane	µg/m ³		< 0.28	U	< 1.1	U	NA
1,2-Dichloropropane	µg/m ³		< 0.29	U	< 1.2	U	NA
1,2-Dichlorotetrafluoroethane	µg/m ³		< 0.35	U	8.4		NA
1,3,5-Trimethylbenzene (Mesitylene)	µg/m ³	Matrix D	< 0.39	U	< 1.6	U	NFA
1,3-Butadiene	µg/m ³		< 0.19	U	< 0.75	U	NA
1,3-Dichlorobenzene	µg/m ³		< 0.78	U	< 3.2	U	NA
1,4-Dichlorobenzene	µg/m ³		< 0.47	U	< 1.9	U	NA
1,4-Dioxane (P-Dioxane)	µg/m ³		< 0.17	U	< 0.68	U	NA
2,2,4-Trimethylpentane	µg/m ³	Matrix D	1.4		< 0.75	U	NFA
2-Chlorotoluene	µg/m ³		< 0.37	U	< 1.5	U	NA
2-Hexanone	µg/m ³		< 0.61	U	< 2.4	U	NA
4-Ethyltoluene	µg/m ³		< 0.47	U	< 1.9	U	NA
Acetone	µg/m ³		31.8		6.4		NA
Allyl Chloride (3-Chloropropene)	µg/m ³		< 0.26	U	< 1.0	U	NA
Benzene	µg/m ³	Matrix D	0.58	J	< 0.61	U	NFA
Benzyl Chloride	µg/m ³		< 0.67	U	< 2.6	U	NA
Bromodichloromethane	µg/m ³		< 0.20	U	< 0.80	U	NA
Bromoform	µg/m ³		< 0.73	U	< 2.9	U	NA
Bromomethane	µg/m ³		< 0.27	U	< 1.1	U	NA
Carbon Disulfide	µg/m ³		< 0.14	U	< 0.56	U	NA
Carbon Tetrachloride	µg/m ³	Matrix A	< 0.25	U	< 1.0	U	NFA
Chlorobenzene	µg/m ³		< 0.34	U	< 1.4	U	NA
Chloroethane	µg/m ³		< 0.18	U	< 0.71	U	NA
Chloroform	µg/m ³		< 0.18	U	< 0.73	U	NA
Chloromethane (Methyl Chloride)	µg/m ³		1.3		< 0.74	U	NA
Cis -1,2-Dichloroethylene	µg/m ³	Matrix A	< 0.12	U	< 0.48	U	NFA
Cis -1,3-Dichloropropene	µg/m ³		< 0.28	U	< 1.1	U	NA
Cyclohexane	µg/m ³	Matrix D	< 0.15	U	< 0.62	U	NFA
Dibromochloromethane	µg/m ³		< 0.44	U	< 1.8	U	NA
Dichlorodifluoromethane	µg/m ³		2.4		2.3	J	NA
Ethanol	µg/m ³		13		< 3.0	U	NA
Ethyl Acetate	µg/m ³		8.6		22		NA
Ethylbenzene	µg/m ³	Matrix D	< 0.26	U	< 1.0	U	NFA
Hexachlorobutadiene	µg/m ³		< 0.66	U	< 2.7	U	NA
Isopropanol	µg/m ³		12		< 1.4	U	NA
M,P-Xylene (Sum Of Isomers)	µg/m ³	Matrix E	0.91		< 2.4	U	NFA
Methyl Ethyl Ketone (2-Butanone)	µg/m ³		0.88		< 1.3	U	NA
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	µg/m ³		< 0.30	U	< 1.2	U	NA
Methyl Methacrylate	µg/m ³		< 0.29	U	< 1.1	U	NA
Methylene Chloride	µg/m ³	Matrix B	2.9		< 1.8	U	NFA
N-Heptane	µg/m ³	Matrix E	< 0.37	U	< 1.5	U	NFA
N-Hexane	µg/m ³	Matrix E	3.9		< 0.74	U	NFA
O-Xylene (1,2-Dimethylbenzene)	µg/m ³	Matrix D	< 0.33	U	< 1.3	U	NFA
Propylene	µg/m ³		< 0.24	U	< 0.98	U	NA
Styrene	µg/m ³		< 0.23	U	< 0.89	U	NA
Tert-Butyl Alcohol	µg/m ³		< 0.28	U	< 1.1	U	NA
Tert-Butyl Methyl Ether	µg/m ³		< 0.29	U	< 1.2	U	NA
Tetrachloroethylene (PCE)	µg/m ³	Matrix B	0.25	J	< 0.38	U	NFA
Tetrahydrofuran	µg/m ³		0.56	J	< 1.1	U	NA
Toluene	µg/m ³	Matrix F	1.4		< 0.87	U	NFA
Trans -1,2-Dichloroethene	µg/m ³		< 0.11	U	< 0.44	U	NA
Trans -1,3-Dichloropropene	µg/m ³		< 0.45	U	< 1.8	U	NA
Trichloroethylene (TCE)	µg/m ³	Matrix A	< 0.10	U	< 0.41	U	NFA
Trichlorofluoromethane	µg/m ³		2.1		< 3.5	U	NA
Vinyl Acetate	µg/m ³		< 0.39	U	< 1.6	U	NA
Vinyl Bromide	µg/m ³		< 0.27	U	< 1.0	U	NA
Vinyl Chloride	µg/m ³	Matrix C	< 0.18	U	< 0.72	U	NFA
Xylenes	µg/m ³		0.91		< 1.3	U	NA

Notes:

(a) NYSDOH Ambient Air Guidelines and Immediate Action Levels are based on the Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006, and NYSDOH Soil Vapor Intrusion Updates dated September 2013, August 2015, and May 2017.

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Red shading indicates that mitigation efforts are required.

Analytical data provided by SGS Nort America; Data validated by Environmental Data Services, Inc.

Figures

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Figure 1
SITE LAYOUT AND STRUCTURE LOCATIONS
NYSDEC Sulphur Springs Fill Area
(Site No. 754020)
Owego, NY



Legend

- Site Boundary
- Sub-Slab Sample Location
- Crawl Space Sample Location
- ▲ Indoor Air Sample Location
- ▲ Outdoor Air Sample Location
- Unnamed Ephemeral Creek
- ★ Site Location

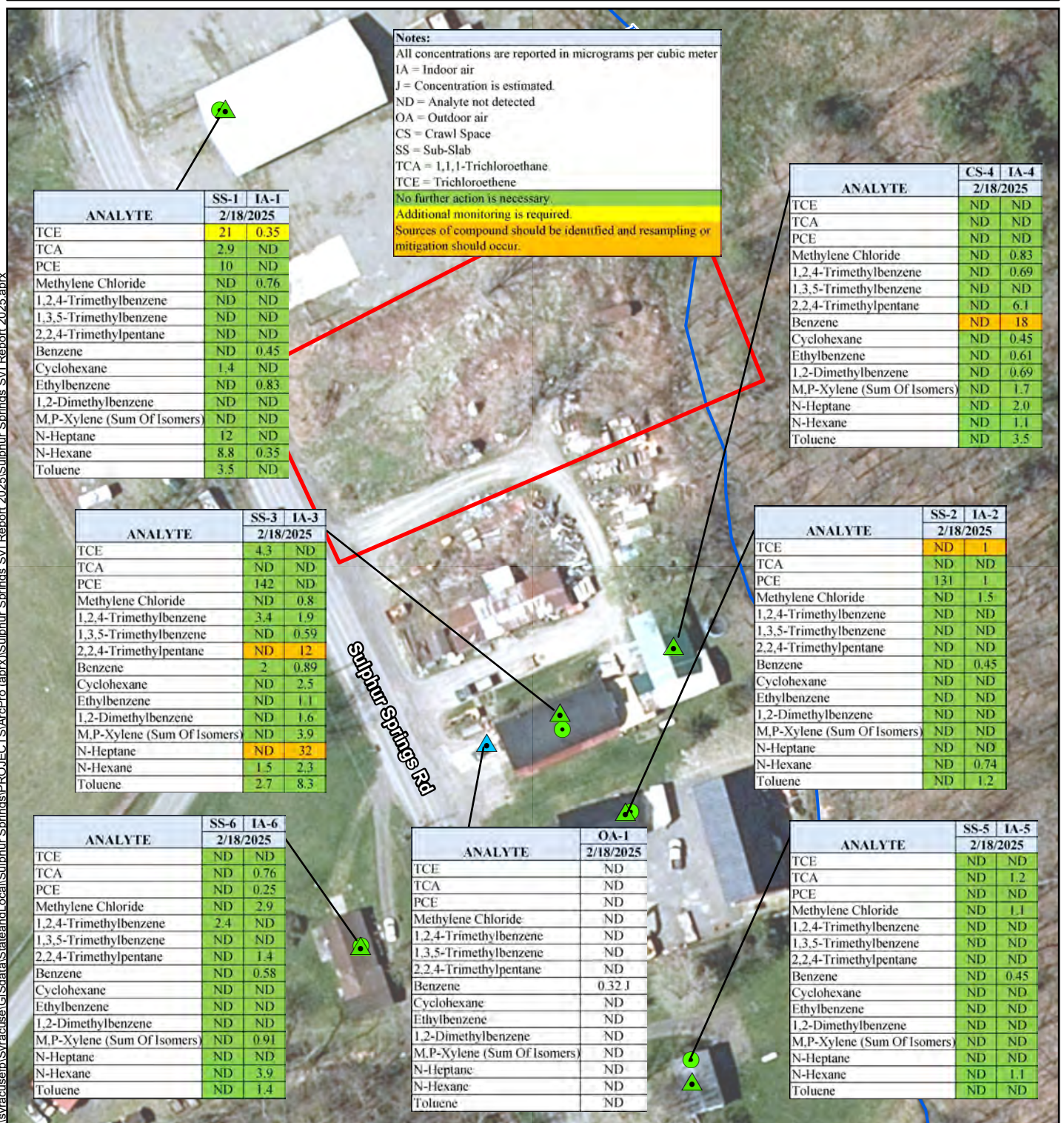
Map Date: 5/5/2025
Projection: NAD 1983 (2011) StatePlane
New York Central FIPS 3102
(US Feet)



Department of
Environmental
Conservation



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Legend

- Site Boundary
- Sub-Slab Sample Location
- Crawl Space Sample Location
- Indoor Air Sample Location
- Outdoor Air Sample Location
- Unnamed Ephemeral Creek
- Site Location

Figure 2
SOIL VAPOR INTRUSION ANALYTICAL RESULTS
NYSDEC Sulphur Springs Fill Area
(Site No. 754020)
Owego, NY

Map Date: 5/5/2025
Projection: NAD 1983 (2011) StatePlane
New York Central FIPS 3102
(US Feet)



Department of
Environmental
Conservation



Attachment A.
Daily Field Reports

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DAILY FIELD REPORT

Day: Tuesday Date: 18 February 2025



Department of
Environmental
Conservation

Wind Direction: AM: 5 mph NW

Project Name: Sulphur Springs

PM: 7 mph NW

NYSDEC Site # 754020

Weather: AM: 5 Cloudy

PM: 18 Sunny

Contract # D009806-39

Arrive at site: 0650 (am)

Location: Owego, New York

Leave site: 1900 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan?
(If yes, list the deviation under items for concern)

Yes () No (x)

Are monitoring results at acceptable levels?

Soil

Yes ()

n/a (X)

* No ()

Waters

Yes ()

n/a (X)

* No ()

Air

Yes (X)

n/a ()

* No ()

OTHER ITEMS:

Site Sketch Attached: Yes () No (x)

Photos Taken: Yes (x) No ()

DESCRIPTION OF DAILY WORK PERFORMED:

Objective: SVI, Indoor Air and Water Sampling

(0645) A. Stoogenke (EA) on site. Calibrate PID, bring equipment into Structure 1.

(0700) EA starts chemical inventory and discusses sampling with building personnel.

(0720) M. Boyle (EA) on site.

(0740) Start 8-hour sample 754020-IA-1-2182024 in Structure 1.

(0750) EA drills sub-slab point and performs leak test.

(0815) Start 8-hour sample 754020-SV-1-2182024.

(0830) EA moves to Structure 2. Start chemical inventory and discuss sampling with personnel.

(0900) Start 8-hour sample 752020-IA-2-2182024. [

(0915) EA drills sub-slab point and performs leak test.

(0927) Start 8-hour sample 754020-SV-2-2182024.

(0930) EA starts running tap water for sample at Structure 2.

(0950) EA collects 754020-TW-1-2182024.

(1000) EA moves to Structure 3. Start chemical inventory and discuss sampling with property owner. (1030)

Start 8-hour sample 754020-IA-3-2182024 and 754020-DUP-1-2182024. EA drills sub-slab point and

DAILY FIELD REPORT

Day: Tuesday Date: 18 February 2025

performs leak test.

(1035) Start 8-hour sample 754020-SV-3-2182024. EA moves to Structure 4 (attached to Structure 3). (1040)

EA takes chemical inventory of Structure 4.

(1055) Start 24-hour sample 754020-SV-4-2182024 in crawl space under structure.

(1100) Start 24-hour sample 754020-IA-4-2182024.

(1105) Start 24-hour sample 754020-OA-2182024 for outdoor air.

(1110) EA moves to Structure 5. Chemical inventory is taken.

(1120) EA drills sub-slab point and performs leak test.

(1130) Start 24-hour sample 754020-SV-5-2182024.

(1140) Start 24-hour sample 754020-IA-5-2182024 and 754020-DUP-2-2182024.

(1150) EA moves to Structure 6. Chemical inventory is taken.

(1200) EA drills sub-slab point and performs leak test.

(1210) Start 24-hour sample 754020-SV-6-2182024.

(1220) Start 24-hour sample 754020-IA-6-2182024.

(1230-1500) EA checks on all air cans periodically.

(1515) Stop sample 754020-SV-1-2182024. EA repairs vapor point with concrete.

(1535) Stop sample 754020-IA-1-2182024.

(1652) Stop sample 754020-IA-2-2182024.

(1727) Stop sample 754020-SV-2-2182024. EA repairs vapor point with concrete.

(1830) Stop sample 754020-IA-3-2182024 and 754020-DUP-1-2182024.

(1835) Stop sample 754020-SV-3-2182024. EA repairs vapor point with concrete.

(1900) EA off site.

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: Alex Stoogenke, Matt Boyle

EA equipment: Ford F-150, Horiba, miniRAE 3000+ PID, gil-air pump, helium detector, hammer drill, tubing and fittings for air sampling.

VISITORS TO SITE:

Property owners and business personnel.

DAILY FIELD REPORT

Day: Tuesday Date: 18 February 2025

PROJECT SCHEDULE ISSUES:

Bottle ware for second tap water sample was not delivered. Structure 2 water sample was taken, will have to return to take second water sample from Structure 5.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

None

COMMENTS:

EA to return in the morning of 2/19/2024 to stop 24-hour air sample cans.

ATTACHMENT(S) TO THIS REPORT:

Photolog

SITE REPRESENTATIVE:

Name: Alex Stoogenke

cc: Jacky Luo, NYSDEC

Photo Log



Structure 1 chemical inventory



Holes in walls for plumbing at Structure 1



754020-IA-1-2182024
(Structure 1)



Vapor point from 754020-SV-1-2182024 after
concreting (Structure 1)



754020-SV-2-2182024
(Structure 2)



754020-IA-2-2182024
(Structure 2)



Structure 5 chemical inventory



Structure 5 chemical inventory

DAILY FIELD REPORT

Day: Tuesday Date: 19 February 2025



Department of
Environmental
Conservation

Wind Direction: AM: 2 mph NW

Project Name: Sulphur Springs

PM: 5 mph NW

NYSDEC Site # 754020

Weather: AM: 10 Cloudy

PM: 25 Sunny

Contract # D009806-39

Arrive at site: 0800 (am)

Location: Owego, New York

Leave site: 1215 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan?
(If yes, list the deviation under items for concern)

Yes () No (x)

Are monitoring results at acceptable levels?

Soil

Yes ()

n/a (X)

* No ()

Waters

Yes ()

n/a (X)

* No ()

Air

Yes (X)

n/a ()

* No ()

OTHER ITEMS:

Site Sketch Attached: Yes () No (x)

Photos Taken: Yes (x) No ()

DESCRIPTION OF DAILY WORK PERFORMED:

Objective: SVI, Indoor Air and Water Sampling

(0800) A. Stoogenke (EA) on site. EA checks pressure on cans in Structure 4.

(0916) Stop 24-hour samples 754020-IA-5-2182024 and 754020-DUP-2-2182024, both with -5 in Hg. (Structure 5)

(0930) Stop 24-hour sample 754020-OA-1-2182024 with -2 in Hg. (Outside Structure 3)

(0935) Stop 24-hour sample 754020-IA-4-2182024 with -5 in Hg. (Structure 4)

(0937) Stop 24-hour sample 754020-SV-4-2182024 with -3 in Hg. (Structure 4)

(1130) Stop 24 hour sample 754020-SV-5-2182024 with -7.5 in Hg. EA repairs vapor point with concrete.
(Structure 5)

(1149) Stop 24 hour sample 754020-SV-6-2182024 with -5 in Hg. EA repairs vapor point with concrete.
(Structure 6)

(1158) Stop 24 hour sample 754020-IA-6-2182024 with -4 in Hg.

(1215) EA off site to ship samples.

DAILY FIELD REPORT

Day: Tuesday Date: 19 February 2025

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

EA personnel: Alex Stoogenke

EA equipment: Ford F-150, miniRAE 3000+ PID, tubing and fittings for air sampling.

VISITORS TO SITE:

Property owners.

DAILY FIELD REPORT

Day: Tuesday Date: 19 February 2025

PROJECT SCHEDULE ISSUES:

None.

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

None

COMMENTS:

None.

ATTACHMENT(S) TO THIS REPORT:

None.

SITE REPRESENTATIVE:

Name: Alex Stoogenke

cc: Jacky Luo, NYSDEC

Photo Log

Attachment B.
Field Forms

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**NYSDOH Indoor Air Quality Questionnaire and
Building Inventory**

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Structure 1

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: Alex Stoo genke Date/Time Prepared: 2/18/2024 1800

Preparer's Affiliation: EA Science and Technology Phone No: 315-395-7825

Purpose of Investigation: SVI sampling

1. OCCUPANT: Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 5 Age of Occupants 30's-60's

Regional Manager
2. ~~OWNER OR LANDLORD~~: (Check if same as occupant _____)

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: Structure 1

County: Onondaga

Home Phone: _____ Cell Phone: _____

3. BUILDING CHARACTERISTICS Type of

Building: (Circle appropriate response)

Residential School Commercial/Multi-use
Industrial Church Other:

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

Ranch

Raised Ranch

Cape Cod

Duplex

Modular

2-Family
Split Level

Contemporary

Apartment House

Log Home

3-Family
Colonial

Mobile Home

Townhouses/Condos

Other:

If multiple units, how many? _____

If the property is
commercial, type?

Shipping Facility

Business Type(s) Firewood Shop – Newspaper Company

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

Other characteristics:

Number of floors *2* Building age Unsure

Is the building insulated Y / N How airtight? Tight / Average / Not Tight

4. AIRFLOW

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

Airflow between floors

0.35 in H₂O from loading platform to basement

Airflow near source

0.010 in H₂O

Outdoor air infiltration

-0.010 in H₂O

Infiltration into air ducts

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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- 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: 0 (feet)

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

HVAC and water lines: sealed well

6. HEATING, VENTING and AIR CONDITIONING

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

Hot air circulation - Heat pump - Hot water baseboard - Space Heaters -Stream radiation - Radiant floor - Electric baseboard - Wood stove - Outdoor wood boiler - Other _____

The primary type of fuel used is:

Natural Gas Fuel Oil Kerosene - Electric - Propane - Solar - Wood - Coal

Domestic hot water tank fueled by: _____

Boiler/furnace located in:

Basement - Outdoors - Main Floor - Other _____

Air conditioning:

Central Air - Window units - Open Windows - None

Are there air distribution ducts present? ☒ Y ☐ N

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

Structure

7. OCCUPANCY

Is basement/lowest level occupied?

~~Full-time~~ - Occasionally - Seldom - Almost Never

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

Basement Break area
1st Floor Shipping Floor
2nd Floor _____
3rd Floor _____
4th Floor _____

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage?

b. Does the garage have a separate heating unit?

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

d. Has the building ever had a fire?

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

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

g. Is there smoking in the building?

h. Have cleaning products been used recently?

i. Have cosmetic products been used recently?

j. Has painting/staining been done in the last 6 months?

k. Is there new carpet, drapes or other textiles?

l. Have air fresheners been used recently?

m. Is there a kitchen exhaust fan?

n. Is there a bathroom exhaust fan?

o. Is there a clothes dryer?

p. Has there been a pesticide application?

☒ Y / ☐ N

☒ Y / ☐ N / ☐ N/A

☒ Y / ☐ N / ☐ N/A

Please specify _____

☐ Y / ☒ N When? _____

☐ Y / ☒ N Where? _____

☐ Y / ☒ N Where & Type? _____

☐ Y / ☒ N How frequently? _____

☒ Y / ☐ N When & Type? All purpose cleaners

☐ Y / ☒ N When & Type? _____

☐ Y / ☒ N When & Type? _____

☐ Y / ☒ N Where & When? _____

☐ Y / ☒ N When & Type? _____

☐ Y / ☒ N If yes, where vented? _____

☒ Y / ☐ N If yes, where vented? _____

☐ Y / ☒ N If yes, is it vented? _____

☐ Y / ☒ N When & Type? _____

Are there odors in the building? Y ☒ N

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 / N/A

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

Yes, use dry-cleaning regularly (weekly) ☒ No

Yes, use dry-cleaning infrequently (monthly or less) Unknown

Yes, work at a dry-cleaning service.

Is there a radon mitigation system for the building/structure? Y ☒ N Date of Installation:

Is the system active or passive? Active/Passive ☒ NA

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: _____

1.10. RELOCATION INFORMATION (for oil spill residential emergency)

1.a. Provide reasons why relocation is recommended: _____

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

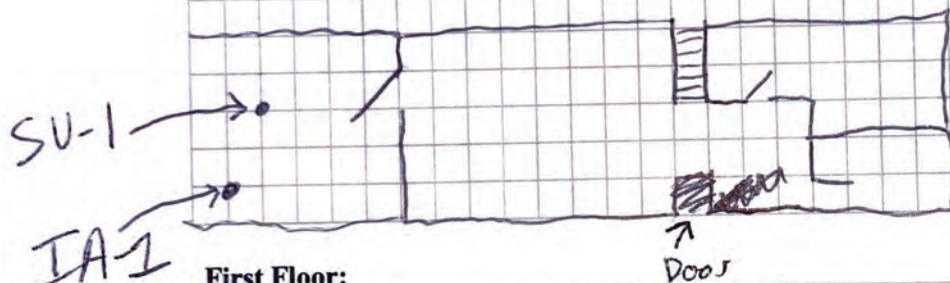
1.c. Responsibility for costs associated with reimbursement explained. Y / N

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

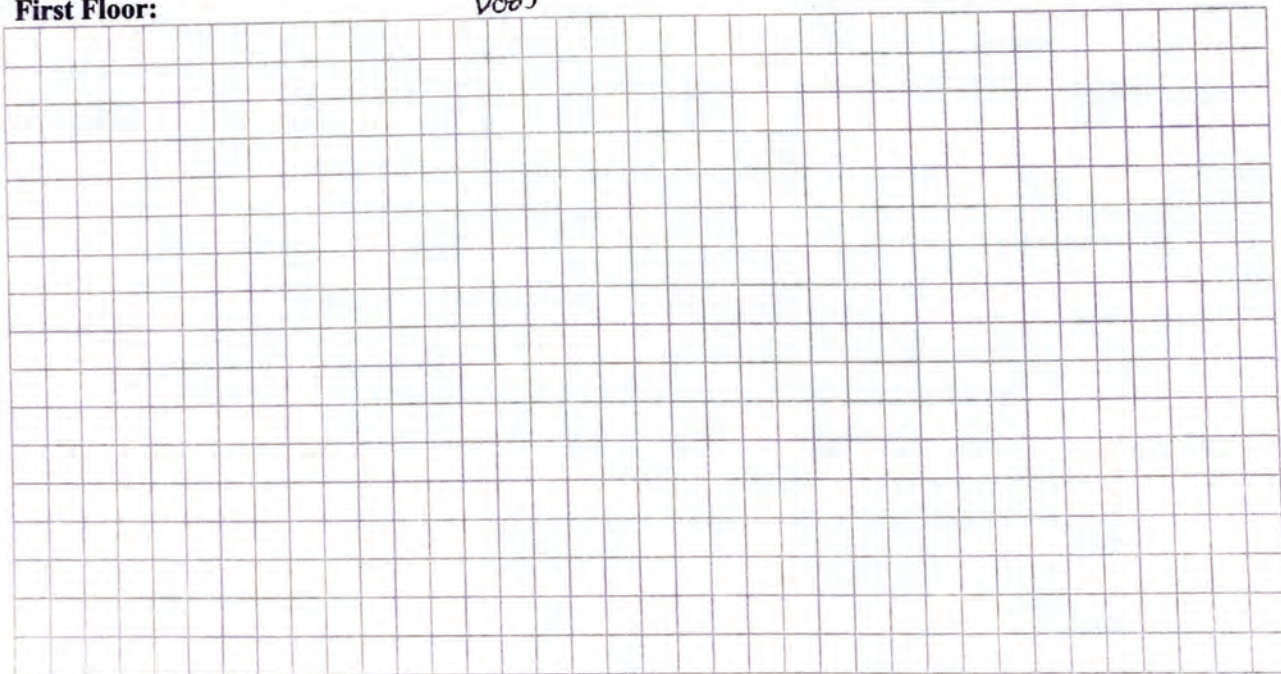
11. FLOOR PLANS

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

Basement:



First Floor:



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Base 3000+

* 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.**

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Structure 2

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: _____

Date/Time Prepared: 2/18/28

Preparer's Affiliation: Owner

Phone No: _____

Purpose of Investigation: _____

1. OCCUPANT: Interviewed: Y / N

Last Name: _____

First Name: _____

Address: Structure 2

County: TIOGA

Home Phone: _____

Office Phone: _____

Number of Occupants/persons at this location 2

Age of Occupants 60 / 38

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

Interviewed: Y / N

Last Name: _____

First Name: _____

Address: _____

County: _____

Home Phone: _____

Cell Phone: _____

3. BUILDING CHARACTERISTICS Type of

Building: (Circle appropriate response)

Residential School Commercial/Multi-use
Industrial Church Other: office

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

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

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) Firewood Shop – Newspaper Company
Does it include residences (i.e., multi-use)? Y / N If yes, how many?

Other characteristics:

Number of floors 1 Building age Unsure
Is the building insulated? Y / N How airtight? Tight / Average / Not Tight

4. AIRFLOW

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

Airflow between floors N/A 1 story

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- 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: N/A (feet)

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

6. HEATING, VENTING and AIR CONDITIONING

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

Hot air circulation Heat pump - Hot water baseboard - Space Heaters - Stream radiation - Radiant floor - Electric baseboard - Wood stove - Outdoor wood boiler
- Other _____

The primary type of fuel used is:

Natural Gas - Fuel Oil - Kerosene Electric - Propane - Solar - Wood - Coal

Domestic hot water tank fueled by: ELECTRIC

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.

7. OCCUPANCY

Is basement/lowest level occupied? N/A Slab on grade

Full-time - Occasionally - Seldom - Almost Never

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

Basement	<u>N/A</u>
1 st Floor	<u>OFFICE</u>
2 nd Floor	<u>/</u>
3 rd Floor	<u>/</u>
4 th Floor	<u>/</u>

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 (N/A)

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

Y (N) / N/A

Please specify _____

d. Has the building ever had a fire?

Y (N) When? _____

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

Y (N) Where? _____

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

Y (N) Where & Type? _____

g. Is there smoking in the building?

Y (N) How frequently? _____

h. Have cleaning products been used recently?

Y / N When & Type? _____

i. Have cosmetic products been used recently?

Y (N) When & Type? _____

j. Has painting/staining been done in the last 6 months?

Y / N When & Type? _____

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/A NO
Stove or range

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? _____

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 / N/A

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle NO
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: NO
Is the system active or passive? Active/Passive / NA

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: _____

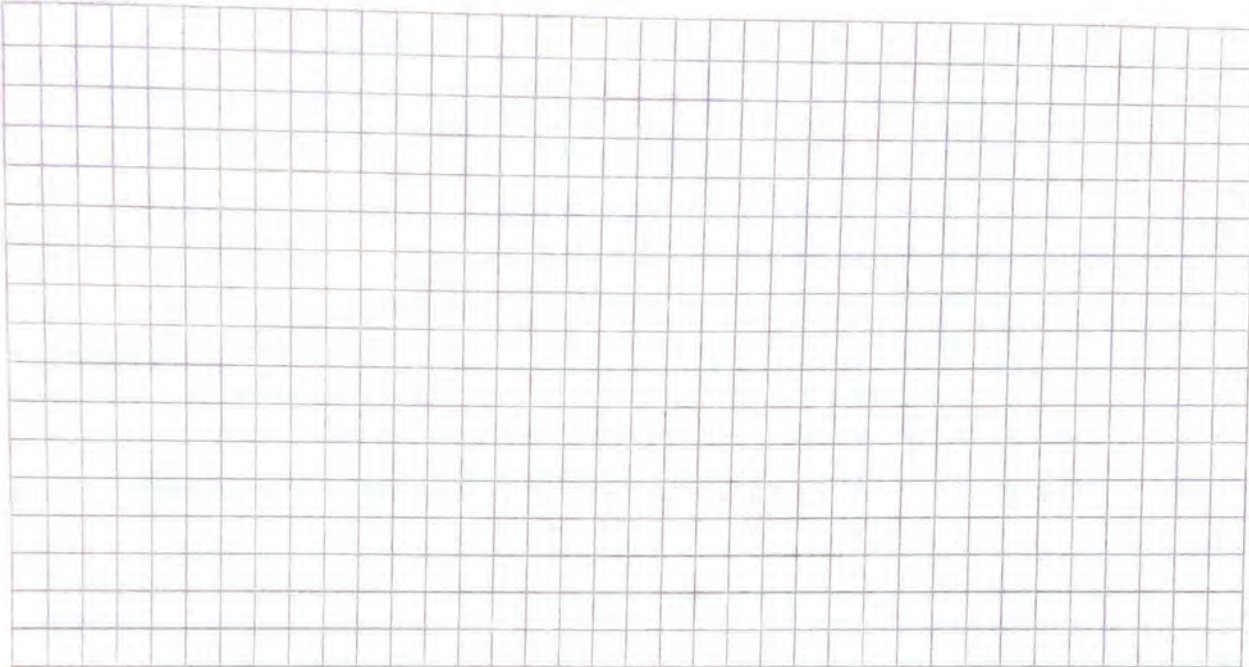
1.10. RELOCATION INFORMATION (for oil spill residential emergency)

- 1.a. Provide reasons why relocation is recommended: _____
1.b. Residents choose to: remain in their home, relocate to friends/family relocate to hotel/motel.
1.c. Responsibility for costs associated with reimbursement explained. Y / N
1.d. Relocation package provided and explained to residents? Y / N

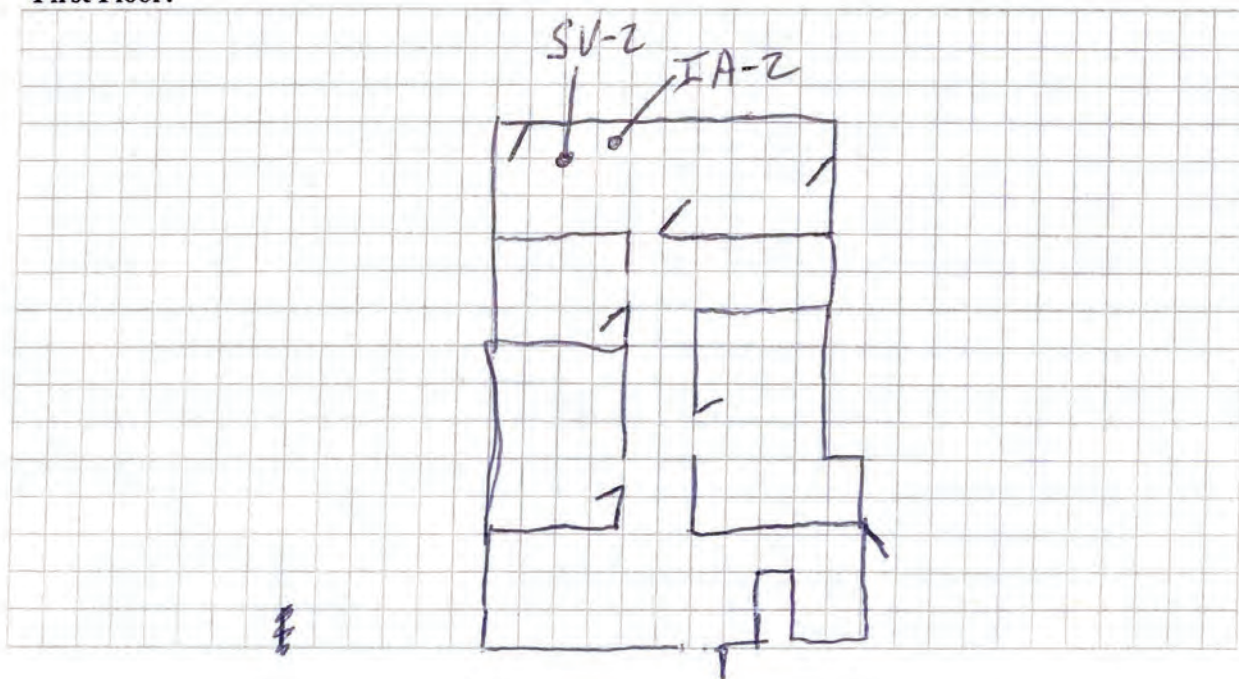
11. FLOOR PLANS

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

Basement:



First Floor:



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Mini Rax 3000+

* 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.**

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Structure 4 and 3

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: Alex Stoogenke Date/Time Prepared: 2/18/2024 1700

Preparer's Affiliation: EA Science and Technology Phone No: 315-395-7825

Purpose of Investigation: SUI Sampling

1. OCCUPANT: Interviewed ☒ Y ☐ N

Last Name: _____ First Name: _____

Address: Structure 4 (house) and 3 (Garage/workshop)

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 4 Age of Occupants infant, 40's, 50's

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

Interviewed: Y / N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Cell Phone: _____

3. BUILDING CHARACTERISTICS Type of

Building: (Circle appropriate response)

Residential

School

Commercial/Multi-use

Industrial

Church

Other:

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

Ranch

Raised Ranch

2-Family

3-Family

Split Level

Colonial

Cape Cod

Contemporary

Mobile Home

Duplex

Apartment House

Townhouses/Condos

Modular

Log Home

Other:

If multiple units, how many? —

If the property is commercial, type? No

Business Type(s) Firewood Shop – Newspaper Company

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

Other characteristics:

Number of floors 2

Building age

Unsure

Is the building insulated? Y / N

How airtight?

Tight / Average

Not Tight

4. AIRFLOW

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

Airflow between floors

Airflow near source

0.105 in H₂O

Outdoor air infiltration

0.010 in H₂O

Infiltration into air ducts

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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- 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: 4 (feet)

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

Subgrade windows in crawl space

6. HEATING, VENTING and AIR CONDITIONING

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

Hot air circulation - Heat pump - Hot water baseboard - Space Heaters - Stream radiation - Radiant floor - Electric baseboard - Wood stove - Outdoor wood boiler
- Other _____

The primary type of fuel used is:

Natural Gas - Fuel Oil - Kerosene - Electric - Propane - Solar Wood - Coal

Domestic hot water tank fueled by: Electric

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.

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time - Occasionally - Seldom - Almost Never

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

Basement Crawl space
1st Floor Residential
2nd Floor Residential
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 N/A

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

Y N / N/A

Please specify lots of machines

d. Has the building ever had a fire?

Y / N When? 1970's

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? Parts cleaners

i. Have cosmetic products been used recently?

Y N When & Type? _____

j. Has painting/staining been done in the last 6 months?

Y N When & Type? _____

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? _____

p. Has there been a pesticide application?

Y N When & Type? _____

Are there odors in the building? ☒ Y ☐ N If

yes, please describe:

Smells like petroleum products and solvent

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? Parts cleaning solutions

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

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

Yes, use dry-cleaning regularly (weekly) ☒ No

Yes, use dry-cleaning infrequently (monthly or less) Unknown

Yes, work at a dry-cleaning service.

Is there a radon mitigation system for the building/structure? Y ☒ N Date of Installation:

Is the system active or passive? Active/Passive ☒ N/A

9. WATER AND SEWAGE

Water Supply: Public Water

☒ Drilled Well

Driven Well

Dug Well

Other: treatment system

Sewage Disposal: Public Sewer

☒ Septic Tank

Leach Field

Dry Well

Other: _____

1.10. RELOCATION INFORMATION (for oil spill residential emergency)

1.a. Provide reasons why relocation is recommended: _____

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

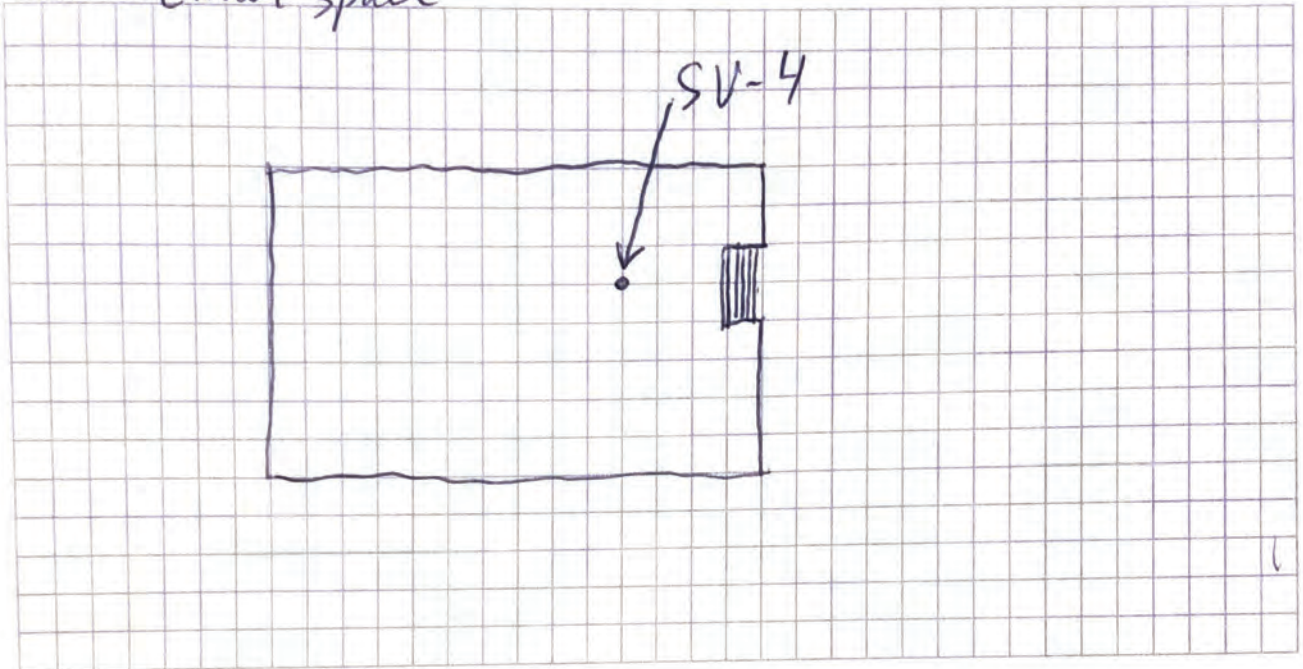
1.c. Responsibility for costs associated with reimbursement explained. Y / N

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

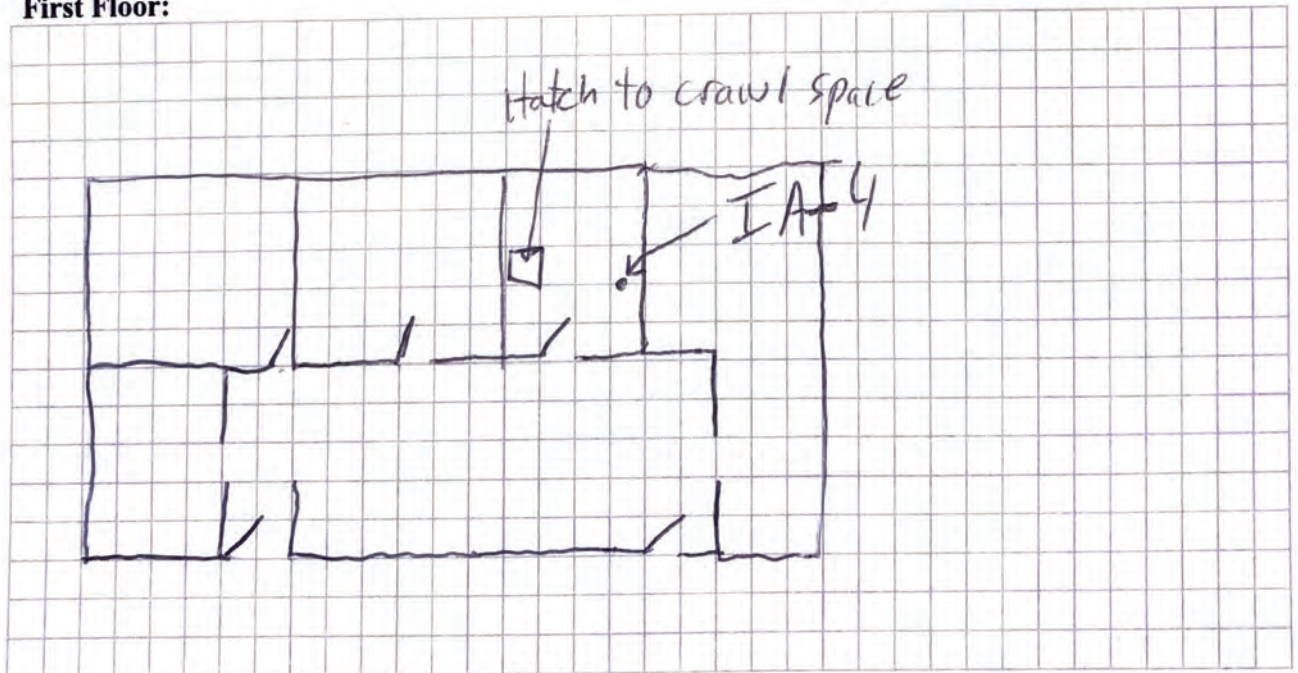
11. FLOOR PLANS

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: *crawl space*



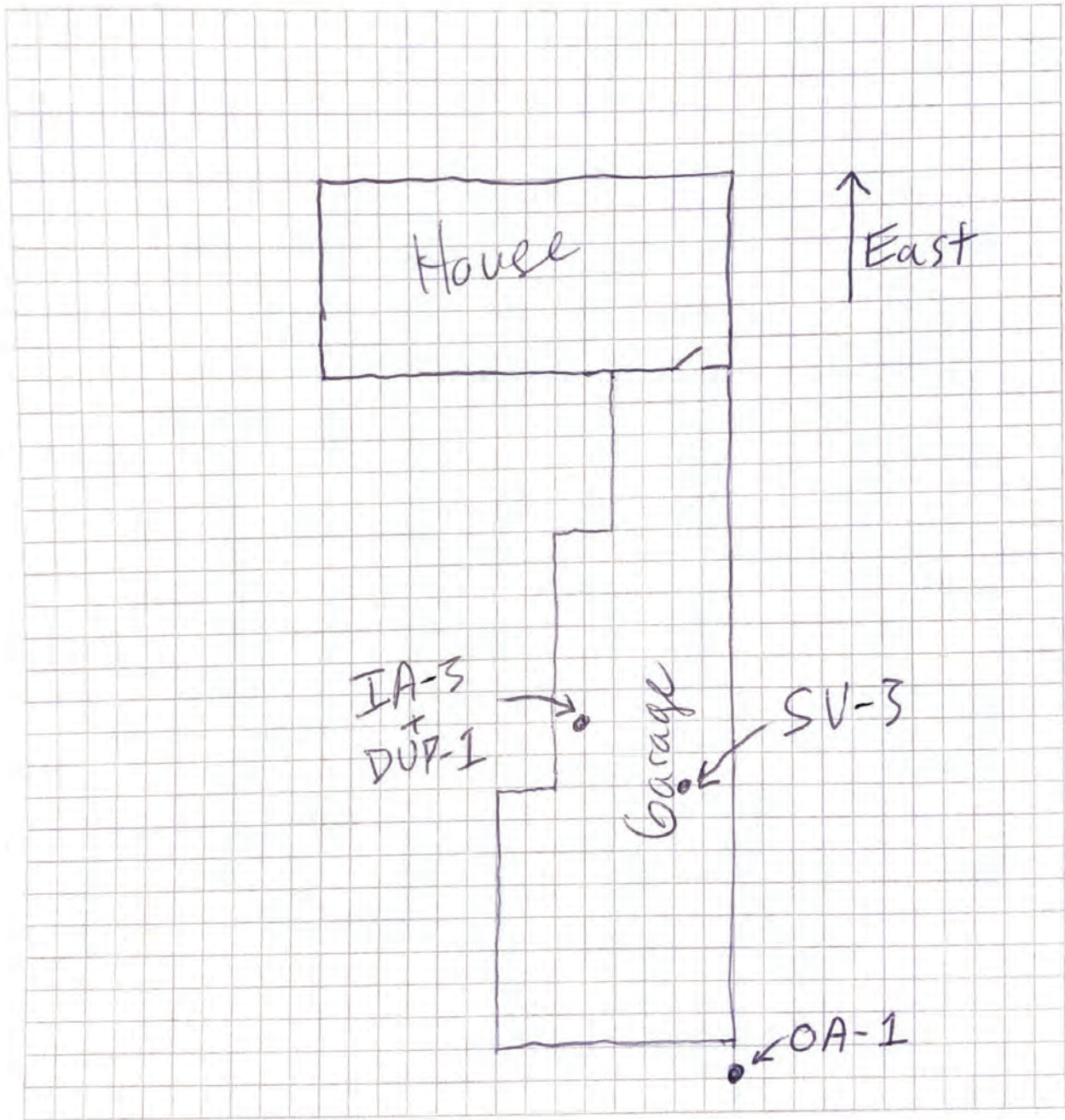
First Floor:



12. OUTDOOR PLOT + Garage

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, repairshops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

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



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: MiniRae 3000+

* 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.

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Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo **
Garage	Machine grease	8x 5gal	open	petroleum	3.0	
Garage	Assorted Engine oil	Various	mixed	petroleum	2.5	
Garage	Assorted paints	Various	mixed	mineral spirits, toluene, ethanol, benzene	5.6	
Garage	Acetone	52 fl oz 2x	open	acetone	20.2	
Garage	Floor Finish	2 gal	open	polyurethane	5.0	
Garage	Lubricants	Various	mixed	petroleum distillates, alkanes, naphtha	27.6	
Garage	Glass cleaner	16 oz	open	poly siloxanes	2.0	
Garage	Resin remover	12 oz	open	citrus oils, acetone, ether alcohol, ethoxylated and benzyl alcohol	7.0	
Garage	Carpet cleaner	12 oz	open	2-butoxyethanol, butane, propane		
Garage	Mass airflow sensor cleaner	12 oz	open	Heptane, 1,1-difluoroethane	18.7	
Garage	All purpose cleaner	1 gal	open	dimethyl benzyl ammonium chloride	5.0	
laundry room	Pine Sol	9.5 oz	open	citric & glycolic acids	0.1	
laundry room	Comet cleaner	12 oz	open	calcium carbonate, sodium carbonate	0.1	
laundry room	Laundry detergent	3 gal	open	Alcohol ethoxylates, sodium laureth sulfate	0.2	
laundry room	~~hand soap~~ Ruby Soap	8 oz	open	80-Sorbitan laurate	0.1	

~~* All cleaning products were kept in garage~~

Structure 5

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: Alex Stoogenke Date/Time Prepared: 2/18/2024 1830

Preparer's Affiliation: EA Science and Technology Phone No: 315-395-7825

Purpose of Investigation: SVI Sampling

1. OCCUPANT: 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: _____ First Name: _____

Address: Structure 5
1000 Spruce St. N. Wt

County: Tioga

Home Phone: _____ Cell Phone: _____

3. BUILDING CHARACTERISTICS Type of

Building: (Circle appropriate response)

<u>Residential</u>	School	Commercial/Multi-use
Industrial	Church	Other:

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

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

If multiple units, how many? 1

If the property is commercial, type? No

Business Type(s) Firewood Shop – Newspaper Company
Does it include residences (i.e., multi-use)? Y / N If yes, how many?

Other characteristics:

Number of floors 2 Building age Unsure
Is the building insulated? Y / N How airtight? Tight / Average / Not Tight

4. AIRFLOW

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

Airflow between floors

Airflow near source
-0.001 in H₂O

Outdoor air infiltration
-0.153 in H₂O

Infiltration into air ducts

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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- 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: 0 (feet)

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

6. HEATING, VENTING and AIR CONDITIONING

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

Hot air circulation - Heat pump Hot water baseboard Space Heaters -Stream radiation - Radiant floor - Electric baseboard - Wood stove - Outdoor wood boiler
- Other _____

The primary type of fuel used is:

Natural Gas - Fuel Oil - Kerosene Electric - Propane - Solar - Wood - Coal

Domestic hot water tank fueled by: electricity

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.



7. OCCUPANCY

Is basement/lowest level occupied?

Full-time - Occasionally - Seldom - Almost Never

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

Basement Laundry / Family room
1st Floor Residential
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 ☒ N/A

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

Y ☒ N / N/A

Please specify _____

d. Has the building ever had a fire?

Y / ☒ N When? _____

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

Y / ☒ N Where? _____

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

Y / ☒ N Where & Type? _____

g. Is there smoking in the building?

Y / ☒ N How frequently? _____

h. Have cleaning products been used recently?

Y / ☒ N When & Type? _____

i. Have cosmetic products been used recently?

Y / ☒ N When & Type? _____

j. Has painting/staining been done in the last 6 months?

Y / ☒ N When & Type? _____

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? Yes

p. Has there been a pesticide application?

Y / ☒ N When & Type? _____

Are there odors in the building? Y ☒ N ☐
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 / N/A

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

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

Is there a radon mitigation system for the building/structure? Y ☒ N ☐ Date of Installation: _____
Is the system active or passive? Active/Passive ☒ NA ☐

9. WATER AND SEWAGE

Water Supply: Public Water ☒ Drilled Well ☐
Sewage Disposal: Public Sewer ☒ Septic Tank ☐

Driven Well ☐ Dug Well ☐
Leach Field ☐ Dry Well ☐

Other: UV treatment
Other: _____

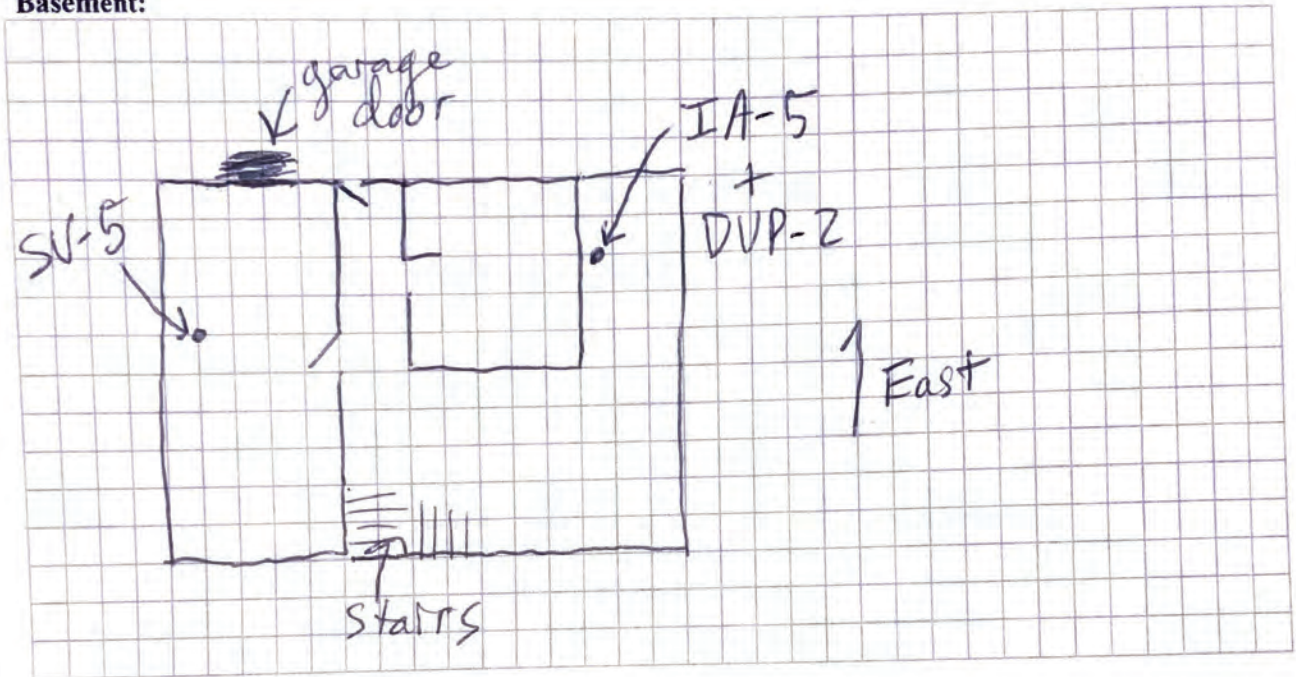
1.10. RELOCATION INFORMATION (for oil spill residential emergency)

- 1.a. Provide reasons why relocation is recommended: _____
1.b. Residents choose to: remain in their home, relocate to friends/family relocate to hotel/motel.
1.c. Responsibility for costs associated with reimbursement explained. Y / N
1.d. Relocation package provided and explained to residents? Y / N

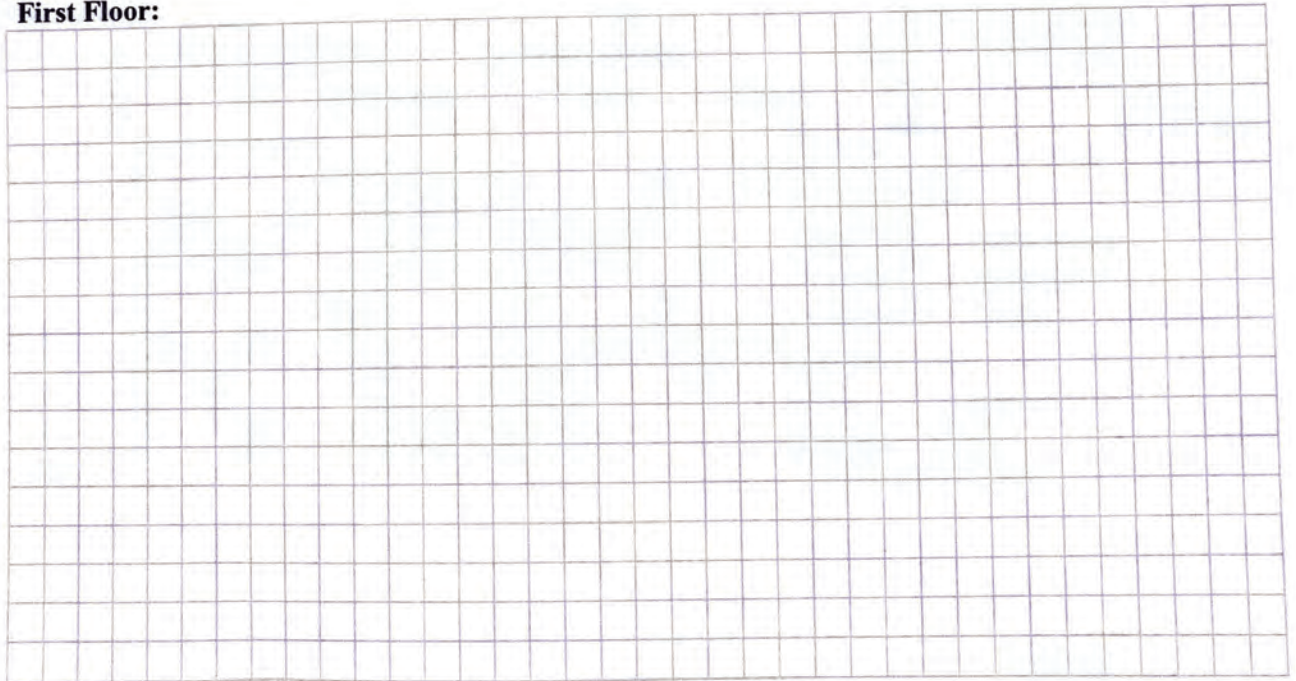
11. FLOOR PLANS

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

Basement:



First Floor:



Make & Model of field instrument used:

MinRate 3000+

** 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.

BTSA\Sections\SIS\Oil Spills\Guidance Docs\Aiproto4.doc

[illegible]

Structure 6

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: Alex Stogenke Date/Time Prepared: 2/19/2024 0800

Preparer's Affiliation: EA Science and Technology Phone No: 315-395-7825

Purpose of Investigation: _____

1. OCCUPANT: Interviewed: ☒ Y / ☐ N

Last Name: _____ First Name: _____

Address: Structure 6

County: Tioga

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location 1 Age of Occupants 70s

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

Interviewed: ☒ Y / ☐ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Cell Phone: _____

3. BUILDING CHARACTERISTICS Type of

Building: (Circle appropriate response)

<u>Residential</u>	School	Commercial/Multi-use
Industrial	Church	Other:

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

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

If multiple units, how many? —

If the property is commercial, type?

No

Business Type(s) Firewood Shop – Newspaper Company

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

Other characteristics:

Number of floors 2 Building age Unsure
Is the building insulated? Y / N How airtight? Tight / Average / Not Tight

4. AIRFLOW

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

Airflow between floors
0.005 in H₂O From down to upstairs

Airflow near source
0.001 in H₂O

Outdoor air infiltration
0.050 in H₂O coming in to basement from door

Infiltration into air ducts
—

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

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- 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: 0 (feet) - *has at grade door*

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

6. HEATING, VENTING and AIR CONDITIONING

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

Hot air circulation - Heat pump - Hot water baseboard - Space Heaters - Stream radiation - Radiant floor - Electric baseboard - Wood stove - Outdoor wood boiler
- Other Forced air

The primary type of fuel used is:

Natural Gas - Fuel Oil - Kerosene Electric - Propane - Solar - Wood - Coal

Domestic hot water tank fueled by: electric

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.

Relatively well sealed.

7. OCCUPANCY

Is basement/lowest level occupied?

Full-time - Occasionally - Seldom - Almost Never

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

Basement Storage, laundry, workshop
1st Floor Living area
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 ☒ N/A

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

☒ Y / ☐ N / ☐ N/A

Please specify _____

d. Has the building ever had a fire?

Y ☒ ☐ N When? _____

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

Y ☒ ☐ N Where? _____

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

☒ Y / ☐ N Where & Type? _____

g. Is there smoking in the building?

Y ☒ ☐ N How frequently? _____

h. Have cleaning products been used recently?

Y ☒ ☐ N When & Type? _____

i. Have cosmetic products been used recently?

Y ☒ ☐ N When & Type? _____

j. Has painting/staining been done in the last 6 months?

Y ☒ ☐ N When & Type? _____

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? _____

p. Has there been a pesticide application?

Y ☒ ☐ N When & Type? _____

Are there odors in the building? Y / N If

yes, please describe: Slight petroleum from motorcycle
in basement

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? Parts cleaners/degreasers

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

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

Yes, use dry-cleaning regularly (weekly) ☒ No ☐

Yes, use dry-cleaning infrequently (monthly or less) Unknown ☐

Yes, work at a dry-cleaning service. ☐

Is there a radon mitigation system for the building/structure? Y ☒ N ☐ Date of Installation:

Is the system active or passive? Active/Passive ☒ N/A ☐

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: _____

1.10. RELOCATION INFORMATION (for oil spill residential emergency)

1.a. Provide reasons why relocation is recommended: _____

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

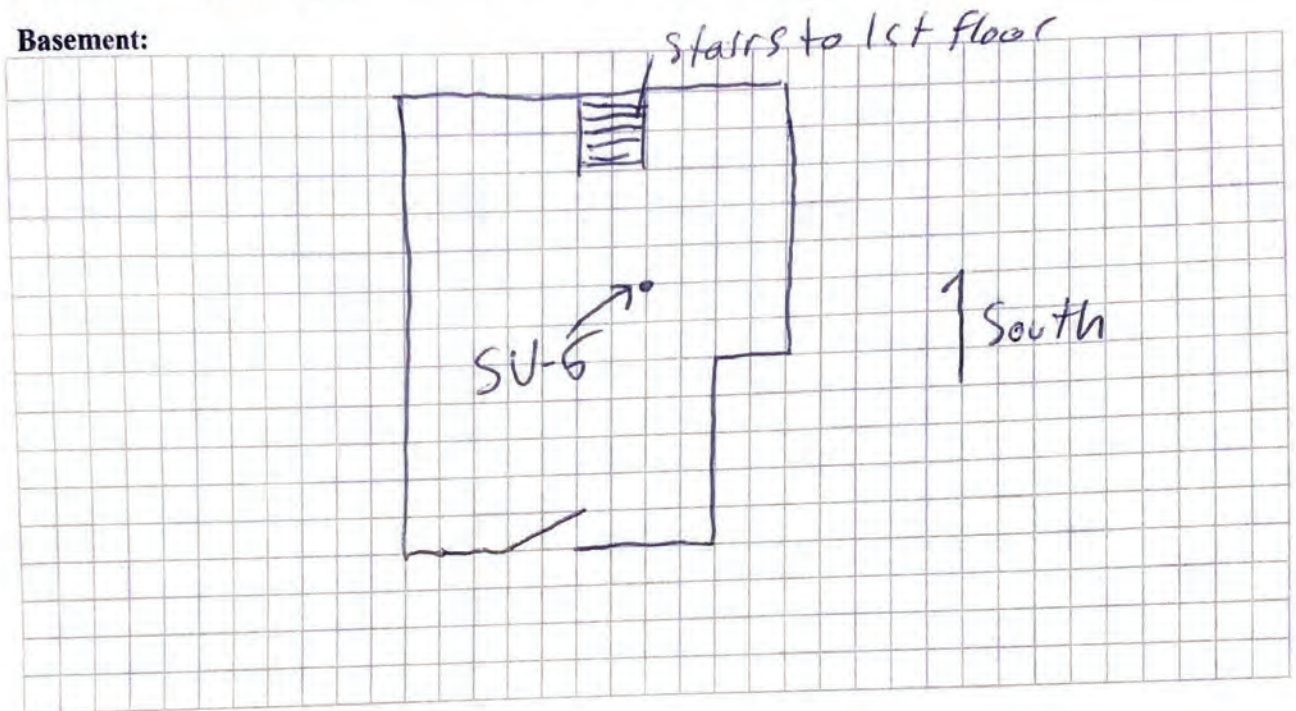
1.c. Responsibility for costs associated with reimbursement explained. Y / N

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

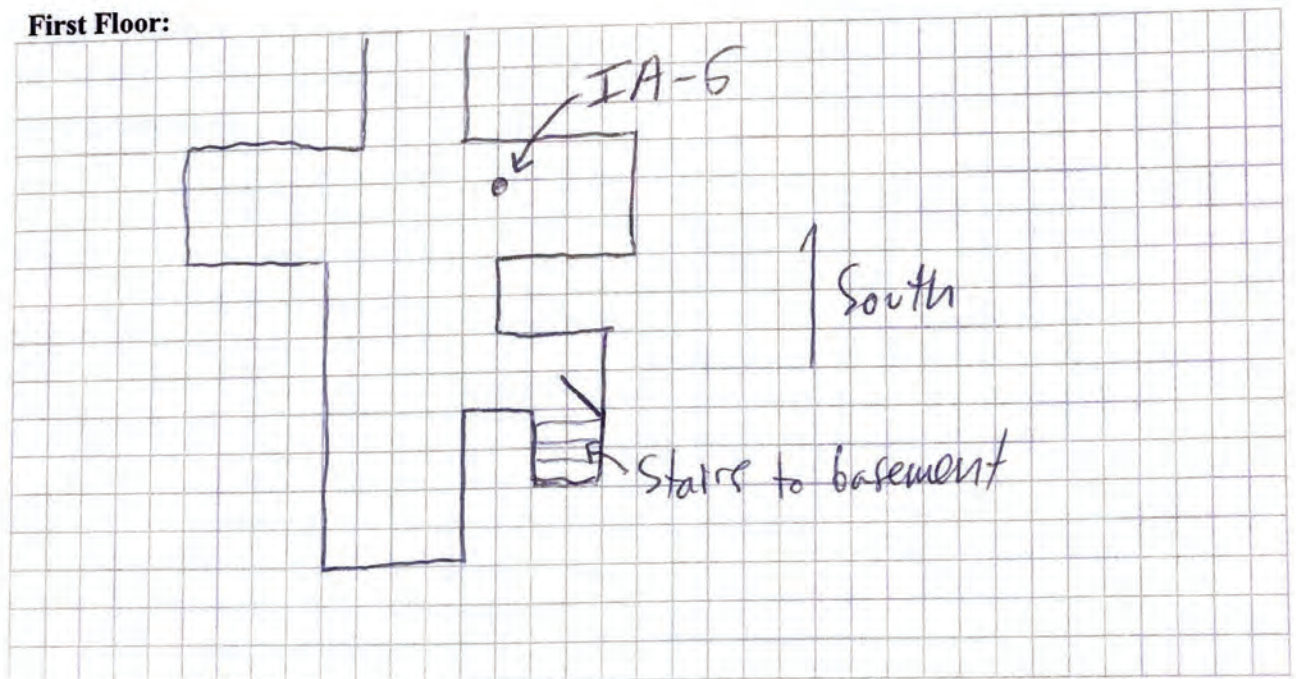
11. FLOOR PLANS

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

Basement:



First Floor:



13. PRODUCT INVENTORY FORM

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

* 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.**

BTSA\Sections\SIS\Oil Spills\Guidance Docs\Aiproto4.doc

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Air Sampling Forms

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INDOOR AIR SAMPLING FORM



EA Engineering, P.C. and Its Affiliate
EA Science and Technology

Project No. 160253900/2.111
Project Name: Sulphur Springs Road Fill
Location: Dwego, VT
Project Manager: Megan Miller

Sample Location Information:

Site ID Number:	754020	Sampler(s):	AS, MB
PID Meter Used: (Model, Serial #)	Mini Rae 3000+	Building I.D. No.:	

SUMMA Canister Record:

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No.	Flow Regulator No. FC684	Flow Regulator No. FC1019	Flow Regulator No.
Canister Serial No.	Canister Serial No.: A633	Canister Serial No.: M223	Canister Serial No.
Start Date/Time:	Start Date/Time: 0740 2/18/24	Start Date/Time: 0815 2/18/24	Start Date/Time:
Start Pressure: (inches Hg)	Start Pressure: (inches Hg) -30+	Start Pressure: (inches Hg) -29	Start Pressure: (inches Hg)
Stop Date/Time:	Stop Date/Time: 1535 2/18/24	Stop Date/Time: 1515 2/18/24	Stop Date/Time:
Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg) -5	Stop Pressure: (inches Hg) -5	Stop Pressure: (inches Hg)
Sample ID:	Sample ID: 754020-FA-1- 2182024	Sample ID: 754020-SV-1- 2182024	Sample ID:

Other Sampling Information:

Story/Level		Story/Level	Basement	Basement or Crawl Space?	Basement	Direction from Building	
Room		Room	closet	Floor Slab Thickness (inches) [if present]	12	Distance from Building	
Indoor Air Temp (°F)		Indoor Air Temp	65°F	Potential Vapor Entry Points Observed?	Y	Intake Height Above Ground Level (ft.)	
Barometric Pressure?		Barometric Pressure?	30.16	Ground Surface Condition (Crawl Space Only)	—	Intake Tubing Used?	
Intake Height Above Floor Level (ft.)		Intake Height Above Floor Level (ft.)	6 Ft	If slab, intake Depth If Crawl Space, intake height	12	Distance to nearest Roadway	
Noticeable Odor?		Noticeable Odor?	NO	Noticeable Odor?	N	Noticeable Odor?	
PID Reading (ppb)		PID Reading (ppb)	0.1	PID Reading (ppb)	0.2	PID Reading (ppb)	
Duplicate Sample?		Duplicate Sample?	N/O	Duplicate Sample?	N	Duplicate Sample?	

Comments:

Helium Test:
He in shroud: 90.6%
He in tedlar bag: 866 ppb
PID in tedlar: 2.3 ppb
structureDA infiltration
↳ -0.010 in H₂O

Sampler Signature:

[Signature]

INDOOR AIR SAMPLING FORM

		EA Engineering, P.C. and Its Affiliate EA Science and Technology		Project No. 16253900/2.1.1	
				Project Name: Sulphur Springs Road 1511	
				Location: Owego, NY	
				Project Manager: Megan Miller	
Sample Location Information:					
Site ID Number: 754020		Sampler(s): AS, MB			
PID Meter Used: (Model, Serial #) MiniRae 3000+		Building I.D. No.:			
SUMMA Canister Record:					
INDOOR AIR - FIRST FLOOR		INDOOR AIR - BASEMENT		SUBSLAB SOIL GAS	
Flow Regulator No. MC228		Flow Regulator No.		Flow Regulator No. FC567	
Canister Serial No. A2191		Canister Serial No.:		Canister Serial No. A852	
Start Date/Time: 0900 2/18/24		Start Date/Time:		Start Date/Time: 0927 2/18/24	
Start Pressure: (inches Hg) -29.5		Start Pressure: (inches Hg)		Start Pressure: (inches Hg) -30.4	
Stop Date/Time: 1652 2/18/24		Stop Date/Time:		Stop Date/Time: 1727 2/18/24	
Stop Pressure: (inches Hg) -5		Stop Pressure: (inches Hg)		Stop Pressure: (inches Hg) -5	
Sample ID: 754020-IA-2-2182024		Sample ID:		Sample ID: 754020-SV-2-2182024	
Other Sampling Information:					
Story/Level: 1st		Story/Level:		Basement or Crawl Space? 1st floor	
Room: Storage room		Room:		Floor Slab Thickness (inches) (if present) 12	
Indoor Air Temp (°F) 63		Indoor Air Temp:		Potential Vapor Entry Points Observed? Y	
Barometric Pressure? 30.20		Barometric Pressure?		Ground Surface Condition (Crawl Space Only) Good	
Intake Height Above Floor Level (ft.) 6 ft		Intake Height Above Floor Level (ft.)		If slab, intake Depth If Crawl Space, intake height 12	
Noticeable Odor? N		Noticeable Odor?		Noticeable Odor? N	
PID Reading (ppb) 0.3		PID Reading (ppb)		PID Reading (ppb) 0.5	
Duplicate Sample? N		Duplicate Sample?		Duplicate Sample? N	
Comments:					
Helium Test:					
He in shroud: 80.5%					
He in teller bag: 1015 ppm					
PID in teller bag: 15 ppb					
Structure OA infiltration: -0.001 in H ₂ O					
Sampler Signature: [Signature]					

INDOOR AIR SAMPLING FORM



EA Engineering, P.C. and Its Affiliate
EA Science and Technology

Project No. 160253900/7.1.1
Project Name: Sulphur Springs Road Fill
Location: Owego, NY
Project Manager: Megan Miller

Sample Location Information:

Site ID Number:	754020	Sampler(s):	AS, MB
PID Meter Used: (Model, Serial #)	MMi Rae 3000+	Building I.D. No.:	

SUMMA Canister Record:

INDOOR AIR - FIRST FLOOR	INDOOR AIR ~~INDOOR~~ DUP	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No. FC770	Flow Regulator No. FC1019	Flow Regulator No. FC1259	Flow Regulator No.
Canister Serial No. A1876	Canister Serial No. A2126	Canister Serial No. A1859	Canister Serial No.
Start Date/Time: 1030 2/18/24	Start Date/Time: 1030 2/18/24	Start Date/Time: 1035 2/18/24	Start Date/Time:
Start Pressure: (inches Hg) -30	Start Pressure: (inches Hg) -28	Start Pressure: (inches Hg) -29	Start Pressure: (inches Hg)
Stop Date/Time: 1830 2/18/24	Stop Date/Time: 1830 2/18/24	Stop Date/Time: 1835 2/18/24	Stop Date/Time:
Stop Pressure: (inches Hg) -7	Stop Pressure: (inches Hg) -8	Stop Pressure: (inches Hg) -6	Stop Pressure: (inches Hg)
Sample ID: 754020-FA3-2182024	Sample ID: 754020-DUP-1- 2182024	Sample ID: 754020-SV-3- 2182024	Sample ID:

Other Sampling Information:

Story/Level		Story/Level		Basement or Crawl Space?	1st Floor	Direction from Building	
Room		Room		Floor Slab Thickness (inches) [if present]	10	Distance from Building	
Indoor Air Temp (°F)	35	Indoor Air Temp	35	Potential Vapor Entry Points Observed?	Yes	Intake Height Above Ground Level (ft.)	
Barometric Pressure?	30.25	Barometric Pressure?	30.25	Ground Surface Condition (Crawl Space Only)	-	Intake Tubing Used?	
Intake Height Above Floor Level (ft.)	5	Intake Height Above Floor Level (ft.)	5	If slab, intake Depth If Crawl Space, intake height	10	Distance to nearest Roadway	
Noticeable Odor?	Y	Noticeable Odor?	Y	Noticeable Odor?	Y	Noticeable Odor?	
PID Reading (ppb)	2.0	PID Reading (ppb)	2.0	PID Reading (ppb)	2.3	PID Reading (ppb)	
Duplicate Sample?	Y	Duplicate Sample?	Y	Duplicate Sample?	N	Duplicate Sample?	

Comments:

Helium Test:

He in Shroud: 70.4%

He in Tedlar bag: 3230 ppm

PID of Tedlar bag: 7.6 ppb

OA infiltration: -0.12 in H₂O

Sampler Signature: Alex Smith

INDOOR AIR SAMPLING FORM

It here



EA Engineering, P.C. and Its Affiliate
EA Science and Technology

Project No. 160253900/2.1.1
Project Name: Sulphur Springs Road Fill
Location: Oswego, NY
Project Manager: Megan Miller

Sample Location Information:

Site ID Number:	754020	Sampler(s):	
PID Meter Used: (Model, Serial #)	MiniRac 3000+	Building I.D. No.:	

SUMMA Canister Record:

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No. FC1219	Flow Regulator No.	Flow Regulator No. FC910	Flow Regulator No. FC1077
Canister Serial No. A1846	Canister Serial No.	Canister Serial No. A2188	Canister Serial No. A1853
Start Date/Time: 1100 2/18/2024	Start Date/Time:	Start Date/Time: 1055 2/19/2024	Start Date/Time: 1105 2/18/2024
Start Pressure: (inches Hg) -29	Start Pressure: (inches Hg)	Start Pressure: (inches Hg) -28	Start Pressure: (inches Hg) -30+
Stop Date/Time: 0935 2/19/24	Stop Date/Time:	Stop Date/Time: 0937 2/19/2024	Stop Date/Time: 0930 2/19/24
Stop Pressure: (inches Hg) -5	Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg) -3	Stop Pressure: (inches Hg) -2
Sample ID: 754020-IA-4-2182024	Sample ID:	Sample ID: 754020-SU-4-2182024	Sample ID: 754020-OA-1-2182024

Other Sampling Information:

Story/Level	1st	Story/Level		Basement or Crawl Space?	crawl	Direction from Building	West
Room	Laundry Room	Room		Floor Slab Thickness (inches) [if present]	-	Distance from Building	~1 ft
Indoor Air Temp (°F)	65	Indoor Air Temp		Potential Vapor Entry Points Observed?	Yes	Intake Height Above Ground Level (ft.)	~1 ft
Barometric Pressure?	30.30	Barometric Pressure?		Ground Surface Condition (Crawl Space Only)	Rocks and other fill	Intake Tubing Used?	No
Intake Height Above Floor Level (ft.)	5.5	Intake Height Above Floor Level (ft.)		If slab, intake Depth If Crawl Space, intake height	1 ft	Distance to nearest Roadway	60 ft
Noticeable Odor?	N	Noticeable Odor?		Noticeable Odor?	N	Noticeable Odor?	N
PID Reading (ppb)	0.2	PID Reading (ppb)		PID Reading (ppb)	0.5	PID Reading (ppb)	0.0
Duplicate Sample?	N	Duplicate Sample?		Duplicate Sample?	N	Duplicate Sample?	N

Comments:

No He leak test, no slab under crawl space, just rock fill

OA infiltration from sub-grade windows: -0.010 in H₂O

Sampler Signature:

Alex Triple

INDOOR AIR SAMPLING FORM

Structure 5



EA Engineering, P.C. and Its Affiliate
EA Science and Technology

Project No. 160253900/2.1.1

Project Name: Sulphur Springs Road Fill

Location: Onaga, VT

Project Manager: Megan Miller

Sample Location Information:

Site ID Number:	754020	Sampler(s):	AS, MB
PID Meter Used: (Model, Serial #)	MiniRae 3000+	Building I.D. No.:	

SUMMA Canister Record:

INDOOR AIR - FIRST FLOOR		INDOOR AIR - BASEMENT		SUBSLAB SOIL GAS		OUTDOOR AIR	
Flow Regulator No.	FC1119	Flow Regulator No.	FC1244	Flow Regulator No.	MC147	Flow Regulator No.	
Canister Serial No.	A1114	Canister Serial No.	A862	Canister Serial No.	A226	Canister Serial No.	
Start Date/Time:	1140 2/18/2024	Start Date/Time:	1140 2/18/2024	Start Date/Time:	1130 2/18/2024	Start Date/Time:	
Start Pressure: (inches Hg)	-29	Start Pressure: (inches Hg)	-29	Start Pressure: (inches Hg)	-30+	Start Pressure: (inches Hg)	
Stop Date/Time:	0916 2/19/2024	Stop Date/Time:	0916 2/19/2024	Stop Date/Time:	1130 2/19/2024	Stop Date/Time:	
Stop Pressure: (inches Hg)	-5	Stop Pressure: (inches Hg)	-5	Stop Pressure: (inches Hg)	-7.5	Stop Pressure: (inches Hg)	
Sample ID:	754020-DUP-2-2182024	Sample ID:	754020-IA-5-2182024	Sample ID:	754020-SU-15-2182024	Sample ID:	

Other Sampling Information:

Story/Level	Room	Indoor Air Temp (°F)	Barometric Pressure?	Intake Height Above Floor Level (ft.)	Noticeable Odor?	PID Reading (ppb)	Duplicate Sample?
Basement	Basement laundry room	60	30.25	5	N	0.1	Y
Basement	Basement laundry room	60	30.25	5	N	0.1	Y
Basement or Crawl Space?	Basement	Potential Vapor Entry Points Observed?	Ground Surface Condition (Crawl Space Only)	If slab, intake Depth If Crawl Space, intake height	Noticeable Odor?	PID Reading (ppb)	Duplicate Sample?
		Y	-	12	N	0.2	N
Direction from Building	Distance from Building	Intake Height Above Ground Level (ft.)	Intake Tubing Used?	Distance to nearest Roadway	Noticeable Odor?	PID Reading (ppb)	Duplicate Sample?

Comments:

Helium Test:

OA infiltration: -0.153 in H₂O

He in shroud: 72.6 %

He in tedlar bag: 3235 ppm

PID of tedlar bag: 2.1 ppb

Sampler Signature: Alex Stuph

INDOOR AIR SAMPLING FORM



EA Engineering, P.C. and Its Affiliate
EA Science and Technology

Project No. 160253900/2.7.1

Project Name: Sulphur Springs Road Fill

Location: Owego, NY

Project Manager: Megan Milles

Sample Location Information:

Site ID Number:	754020	Sampler(s):	AS, MB
PID Meter Used: (Model, Serial #)	Mini Rae 3000+	Building I.D. No.:	

SUMMA Canister Record:

INDOOR AIR - FIRST FLOOR	INDOOR AIR - BASEMENT	SUBSLAB SOIL GAS	OUTDOOR AIR
Flow Regulator No. FC1115	Flow Regulator No.	Flow Regulator No. FC308	Flow Regulator No.
Canister Serial No. A2135	Canister Serial No.	Canister Serial No. A1276	Canister Serial No.
Start Date/Time: 1220 2/18/2024	Start Date/Time:	Start Date/Time: 1210 2/18/2024	Start Date/Time:
Start Pressure: (inches Hg) -29	Start Pressure: (inches Hg)	Start Pressure: (inches Hg) -30	Start Pressure: (inches Hg)
Stop Date/Time: 1158 2/19/24	Stop Date/Time:	Stop Date/Time: 1149 2/19/24	Stop Date/Time:
Stop Pressure: (inches Hg) -4	Stop Pressure: (inches Hg)	Stop Pressure: (inches Hg) -5	Stop Pressure: (inches Hg)
Sample ID: 754020-IA-6- 2182024	Sample ID:	Sample ID: 754020-SU-6-218 2024	Sample ID:

Other Sampling Information:

Story/Level	1st	Story/Level		Basement or Crawl Space?	Basement	Direction from Building	
Room	Kitchen	Room		Floor Slab Thickness (inches) [if present]	10	Distance from Building	
Indoor Air Temp (°F)	65	Indoor Air Temp		Potential Vapor Entry Points Observed?	Y	Intake Height Above Ground Level (ft.)	
Barometric Pressure?	30.32	Barometric Pressure?		Ground Surface Condition (Crawl Space Only)	OKay	Intake Tubing Used?	
Intake Height Above Floor Level (ft.)	5.5	Intake Height Above Floor Level (ft.)		If slab, intake Depth If Crawl Space, intake height	10	Distance to nearest Roadway	
Noticeable Odor?	N	Noticeable Odor?		Noticeable Odor?	N	Noticeable Odor?	
PID Reading (ppb)	0.1	PID Reading (ppb)		PID Reading (ppb)	0.2	PID Reading (ppb)	
Duplicate Sample?	N	Duplicate Sample?		Duplicate Sample?	N	Duplicate Sample?	

Comments:

Helium Test:

He in shroud: 50.3%

He in Tedlar bag: 2832 ppm

PID of Tedlar bag: 1.2 ppb

OA infiltration: -0.050 in
H₂O

Sampler Signature:

[Signature]

Attachment C.
New York State Department of Health Soil Vapor
Intrusion Screening Matrices

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MATRIX A			
Sub-Slab Vapor Concentration ($\mu\text{g}/\text{m}^3$)	Indoor Air Concentration ($\mu\text{g}/\text{m}^3$)		
	<0.2	0.2 to <1	1 and above
<6	NFA	NFA	IS
6 to <60	NFA	MO	MI
60 and above	MI	MI	MI

MATRIX B			
Sub-Slab Vapor Concentration ($\mu\text{g}/\text{m}^3$)	Indoor Air Concentration ($\mu\text{g}/\text{m}^3$)		
	<3	3 to <10	10 and above
<100	NFA	NFA	IS
100 to <1,000	NFA	MO	MI
1,000 and above	MI	MI	MI

MATRIX C		
Sub-Slab Vapor Concentration ($\mu\text{g}/\text{m}^3$)	Indoor Air Concentration ($\mu\text{g}/\text{m}^3$)	
	<0.2	0.2 and above
<6	NFA	IS
6 to <60	MO	MI
60 and above	MI	MI

MATRIX D			
Sub-Slab Vapor Concentration ($\mu\text{g}/\text{m}^3$)	Indoor Air Concentration ($\mu\text{g}/\text{m}^3$)		
	< 2	2 to < 10	10 and above
<60	NFA	NFA	IS
60 to <600	NFA	MO	MI
600 and above	MI	MI	MI

MATRIX E			
Sub-Slab Vapor Concentration ($\mu\text{g}/\text{m}^3$)	Indoor Air Concentration ($\mu\text{g}/\text{m}^3$)		
	< 6	6 to < 20	20 and above
<200	NFA	NFA	IS
200 to <2,000	NFA	MO	MI
2,000 and above	MI	MI	MI

MATRIX F			
Sub-Slab Vapor Concentration ($\mu\text{g}/\text{m}^3$)	Indoor Air Concentration ($\mu\text{g}/\text{m}^3$)		
	< 10	10 to < 50	50 and above
<300	NFA	NFA	IS
300 to <3,000	NFA	MO	MI
3,000 and above	MI	MI	MI

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Attachment D.
Analytical Laboratory Report

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The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

EA Engineering

Sulphur Springs Road, Binghamton, NY

754020 PO#160253900/2.1.1

SGS Job Number: JE5976

Sampling Dates: 02/18/25 - 02/19/25



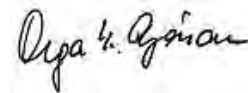
Report to:

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haleyyoung@eaest.com
ATTN: Lincoln Backman-Lowe

Total number of pages in report: **924**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.



Olga Azarian
Technical Director

Client Service contact: Kelly Ramos 732-329-0200

Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

This report shall not be reproduced, except in its entirety, without the written approval of SGS.
Test results relate only to samples analyzed.

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Sample Summary

EA Engineering

Job No: JE5976

Sulphur Springs Road, Binghamton, NY
Project No: 754020 PO#160253900/2.1.1

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

JE5976-1	02/18/25	15:35	AS	02/20/25	AIR	Indoor Air Comp.	754020-IA-1-2182025
JE5976-1R	02/18/25	15:35	AS	02/20/25	AIR	Indoor Air Comp.	754020-IA-1-2182025
JE5976-2	02/18/25	15:15	AS	02/20/25	AIR	Soil Vapor Comp.	754020-SS-1-20250218
JE5976-3	02/18/25	16:52	AS	02/20/25	AIR	Indoor Air Comp.	754020-IA-2-2182025
JE5976-4	02/18/25	17:27	AS	02/20/25	AIR	Soil Vapor Comp.	754020-SS-2-20250218
JE5976-5	02/18/25	18:30	AS	02/20/25	AIR	Indoor Air Comp.	754020-IA-3-2182025
JE5976-6	02/18/25	00:00	AS	02/20/25	AIR	Indoor Air Comp.	754020-DUP-1-2182025
JE5976-7	02/18/25	18:35	AS	02/20/25	AIR	Soil Vapor Comp.	754020-SS-3-20250218
JE5976-8	02/19/25	09:35	AS	02/20/25	AIR	Indoor Air Comp.	754020-IA-4-2182025
JE5976-9	02/19/25	09:37	AS	02/20/25	AIR	Soil Vapor Comp.	754020-CS-4-20250218
JE5976-10	02/19/25	09:30	AS	02/20/25	AIR	Ambient Air Comp.	754020-OA-1-2182025
JE5976-11	02/19/25	09:16	AS	02/20/25	AIR	Indoor Air Comp.	754020-IA-5-2182025



Sample Summary
(continued)

EA Engineering

Job No: JE5976

Sulphur Springs Road, Binghamton, NY
Project No: 754020 PO#160253900/2.1.1

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JE5976-12	02/19/25	00:00 AS	02/20/25	AIR	Indoor Air Comp.	754020-DUP-2-2182025
JE5976-13	02/19/25	11:30 AS	02/20/25	AIR	Soil Vapor Comp.	754020-SS-5-20250218
JE5976-14	02/19/25	11:49 AS	02/20/25	AIR	Soil Vapor Comp.	754020-SS-6-20250218
JE5976-15	02/19/25	11:58 AS	02/20/25	AIR	Indoor Air Comp.	754020-IA-6-2182025

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: EA Engineering

Job No: JE5976

Site: Sulphur Springs Road, Binghamton, NY

Report Date 3/10/2025 4:32:35 PM

On 02/20/2025, 15 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. An SGS Job Number of JE5976 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method TO-15

Matrix: AIR

Batch ID: V5W2193

- All samples were analyzed within the recommended method holding time.
- Sample(s) JE5976-1DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- The duplicate RPD(s) for Hexane are outside control limits for sample JE5976-1DUP. RPD acceptable due to low DUP and sample concentrations.
- JE5976-1DUP for Methylene chloride, Trichloroethylene: Outside control limits.

Matrix: AIR

Batch ID: V5W2194

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE5976-3DUP were used as the QC samples indicated.
- The duplicate RPD(s) for Tertiary Butyl Alcohol are outside control limits for sample JE5976-3DUP. RPD acceptable due to low DUP and sample concentrations.
- JE5976-3DUP for Trichloroethylene: Outside control limits.

Matrix: AIR

Batch ID: V5W2196

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE5791-3DUP were used as the QC samples indicated.

Matrix: AIR

Batch ID: V7W465

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JE5976-2DUP were used as the QC samples indicated.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Monday, March 10, 2025

Page 1 of 1

Summary of Hits

Job Number: JE5976
Account: EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Collected: 02/18/25 thru 02/19/25



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JE5976-1 754020-IA-1-2182025

Acetone (2-Propanone)	4.1	0.20	0.15	ppbv	TO-15
Benzene	0.14 J	0.20	0.047	ppbv	TO-15
Chloromethane	0.63	0.20	0.090	ppbv	TO-15
Dichlorodifluoromethane	0.48	0.20	0.10	ppbv	TO-15
Ethanol	9.9	0.50	0.39	ppbv	TO-15
Ethylbenzene	0.19 J	0.20	0.061	ppbv	TO-15
Ethyl Acetate	0.24	0.20	0.10	ppbv	TO-15
Freon 113	0.16	0.10	0.031	ppbv	TO-15
Hexane	0.10 J	0.20	0.052	ppbv	TO-15
Isopropyl Alcohol	0.93	0.20	0.14	ppbv	TO-15
Methylene chloride	0.22	0.20	0.13	ppbv	TO-15
Methyl ethyl ketone	0.23	0.20	0.11	ppbv	TO-15
Tetrahydrofuran	0.23	0.20	0.090	ppbv	TO-15
Trichloroethylene	0.065	0.040	0.019	ppbv	TO-15
Trichlorofluoromethane	0.28	0.10	0.15	ppbv	TO-15
Acetone (2-Propanone)	9.7	0.48	0.36	ug/m3	TO-15
Benzene	0.45 J	0.64	0.15	ug/m3	TO-15
Chloromethane	1.3	0.41	0.19	ug/m3	TO-15
Dichlorodifluoromethane	2.4	0.99	0.49	ug/m3	TO-15
Ethanol	19	0.94	0.73	ug/m3	TO-15
Ethylbenzene	0.83 J	0.87	0.26	ug/m3	TO-15
Ethyl Acetate	0.86	0.72	0.36	ug/m3	TO-15
Freon 113	1.2	0.77	0.24	ug/m3	TO-15
Hexane	0.35 J	0.70	0.18	ug/m3	TO-15
Isopropyl Alcohol	2.3	0.49	0.34	ug/m3	TO-15
Methylene chloride	0.76	0.69	0.45	ug/m3	TO-15
Methyl ethyl ketone	0.68	0.59	0.32	ug/m3	TO-15
Tetrahydrofuran	0.68	0.59	0.27	ug/m3	TO-15
Trichloroethylene	0.35	0.21	0.10	ug/m3	TO-15
Trichlorofluoromethane	1.6	0.56	0.84	ug/m3	TO-15

JE5976-2 754020-SS-1-20250218

Acetone (2-Propanone)	3.7	0.80	0.58	ppbv	TO-15
Cyclohexane	0.40 J	0.80	0.18	ppbv	TO-15
Freon 113	33.9	0.40	0.12	ppbv	TO-15
Heptane	2.9	0.80	0.36	ppbv	TO-15
Hexane	2.5	0.80	0.21	ppbv	TO-15
1,1,1-Trichloroethane	0.53	0.40	0.31	ppbv	TO-15
Tetrachloroethylene	1.5	0.16	0.056	ppbv	TO-15
Toluene	0.93	0.80	0.23	ppbv	TO-15
Trichloroethylene	4.0	0.16	0.076	ppbv	TO-15
Acetone (2-Propanone)	8.8	1.9	1.4	ug/m3	TO-15

Summary of Hits

Job Number: JE5976
Account: EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Collected: 02/18/25 thru 02/19/25



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Cyclohexane		1.4 J	2.8	0.62	ug/m3	TO-15
Freon 113		260	3.1	0.92	ug/m3	TO-15
Heptane		12	3.3	1.5	ug/m3	TO-15
Hexane		8.8	2.8	0.74	ug/m3	TO-15
1,1,1-Trichloroethane		2.9	2.2	1.7	ug/m3	TO-15
Tetrachloroethylene		10	1.1	0.38	ug/m3	TO-15
Toluene		3.5	3.0	0.87	ug/m3	TO-15
Trichloroethylene		21	0.86	0.41	ug/m3	TO-15

JE5976-3 754020-IA-2-2182025

Acetone (2-Propanone)	6.7	0.20	0.15	ppbv	TO-15
Benzene	0.14 J	0.20	0.047	ppbv	TO-15
Chloromethane	0.70	0.20	0.090	ppbv	TO-15
Dichlorodifluoromethane	0.48	0.20	0.10	ppbv	TO-15
Ethanol	19.8	0.50	0.39	ppbv	TO-15
Ethyl Acetate	5.2	0.20	0.10	ppbv	TO-15
Hexane	0.21	0.20	0.052	ppbv	TO-15
Isopropyl Alcohol	2.2	0.20	0.14	ppbv	TO-15
Methylene chloride	0.43	0.20	0.13	ppbv	TO-15
Methyl ethyl ketone	0.22	0.20	0.11	ppbv	TO-15
Tertiary Butyl Alcohol	0.14 J	0.20	0.093	ppbv	TO-15
Tetrachloroethylene	0.15	0.040	0.014	ppbv	TO-15
Toluene	0.33	0.20	0.057	ppbv	TO-15
Trichloroethylene	0.19	0.040	0.019	ppbv	TO-15
Trichlorofluoromethane	0.31	0.10	0.15	ppbv	TO-15
Vinyl Acetate	0.26	0.20	0.11	ppbv	TO-15
Acetone (2-Propanone)	16	0.48	0.36	ug/m3	TO-15
Benzene	0.45 J	0.64	0.15	ug/m3	TO-15
Chloromethane	1.4	0.41	0.19	ug/m3	TO-15
Dichlorodifluoromethane	2.4	0.99	0.49	ug/m3	TO-15
Ethanol	37.3	0.94	0.73	ug/m3	TO-15
Ethyl Acetate	19	0.72	0.36	ug/m3	TO-15
Hexane	0.74	0.70	0.18	ug/m3	TO-15
Isopropyl Alcohol	5.4	0.49	0.34	ug/m3	TO-15
Methylene chloride	1.5	0.69	0.45	ug/m3	TO-15
Methyl ethyl ketone	0.65	0.59	0.32	ug/m3	TO-15
Tertiary Butyl Alcohol	0.42 J	0.61	0.28	ug/m3	TO-15
Tetrachloroethylene	1.0	0.27	0.095	ug/m3	TO-15
Toluene	1.2	0.75	0.21	ug/m3	TO-15
Trichloroethylene	1.0	0.21	0.10	ug/m3	TO-15
Trichlorofluoromethane	1.7	0.56	0.84	ug/m3	TO-15
Vinyl Acetate	0.91	0.70	0.39	ug/m3	TO-15

Summary of Hits

Job Number: JE5976
Account: EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Collected: 02/18/25 thru 02/19/25



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JE5976-4 754020-SS-2-20250218

Acetone (2-Propanone)	1.7	0.80	0.58	ppbv	TO-15
Ethyl Acetate	0.96	0.80	0.42	ppbv	TO-15
Tetrachloroethylene	19.3	0.16	0.056	ppbv	TO-15
Acetone (2-Propanone)	4.0	1.9	1.4	ug/m3	TO-15
Ethyl Acetate	3.5	2.9	1.5	ug/m3	TO-15
Tetrachloroethylene	131	1.1	0.38	ug/m3	TO-15

JE5976-5 754020-IA-3-2182025

Acetone (2-Propanone)	586	4.0	2.9	ppbv	TO-15
Benzene	0.28	0.20	0.047	ppbv	TO-15
Chloromethane	0.77	0.20	0.090	ppbv	TO-15
Cyclohexane	0.74	0.20	0.045	ppbv	TO-15
Dichlorodifluoromethane	0.55	0.20	0.10	ppbv	TO-15
Ethanol	17.9	0.50	0.39	ppbv	TO-15
Ethylbenzene	0.25	0.20	0.061	ppbv	TO-15
Ethyl Acetate	0.13 J	0.20	0.10	ppbv	TO-15
4-Ethyltoluene	0.12 J	0.20	0.095	ppbv	TO-15
Heptane	7.9	0.20	0.091	ppbv	TO-15
Hexane	0.65	0.20	0.052	ppbv	TO-15
Isopropyl Alcohol	0.59	0.20	0.14	ppbv	TO-15
Methylene chloride	0.23	0.20	0.13	ppbv	TO-15
Methyl ethyl ketone	0.23	0.20	0.11	ppbv	TO-15
1,2,4-Trimethylbenzene	0.39	0.20	0.087	ppbv	TO-15
1,3,5-Trimethylbenzene	0.12 J	0.20	0.080	ppbv	TO-15
2,2,4-Trimethylpentane	2.5	0.20	0.040	ppbv	TO-15
Toluene	2.2	0.20	0.057	ppbv	TO-15
Trichlorofluoromethane	0.27	0.10	0.15	ppbv	TO-15
m,p-Xylene	0.89	0.20	0.14	ppbv	TO-15
o-Xylene	0.37	0.20	0.077	ppbv	TO-15
Xylenes (total)	1.3	0.20	0.077	ppbv	TO-15
Acetone (2-Propanone)	1390	9.5	6.9	ug/m3	TO-15
Benzene	0.89	0.64	0.15	ug/m3	TO-15
Chloromethane	1.6	0.41	0.19	ug/m3	TO-15
Cyclohexane	2.5	0.69	0.15	ug/m3	TO-15
Dichlorodifluoromethane	2.7	0.99	0.49	ug/m3	TO-15
Ethanol	33.7	0.94	0.73	ug/m3	TO-15
Ethylbenzene	1.1	0.87	0.26	ug/m3	TO-15
Ethyl Acetate	0.47 J	0.72	0.36	ug/m3	TO-15
4-Ethyltoluene	0.59 J	0.98	0.47	ug/m3	TO-15
Heptane	32	0.82	0.37	ug/m3	TO-15
Hexane	2.3	0.70	0.18	ug/m3	TO-15
Isopropyl Alcohol	1.5	0.49	0.34	ug/m3	TO-15

Summary of Hits

Job Number: JE5976
Account: EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Collected: 02/18/25 thru 02/19/25



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Methylene chloride		0.80	0.69	0.45	ug/m3	TO-15
Methyl ethyl ketone		0.68	0.59	0.32	ug/m3	TO-15
1,2,4-Trimethylbenzene		1.9	0.98	0.43	ug/m3	TO-15
1,3,5-Trimethylbenzene		0.59 J	0.98	0.39	ug/m3	TO-15
2,2,4-Trimethylpentane		12	0.93	0.19	ug/m3	TO-15
Toluene		8.3	0.75	0.21	ug/m3	TO-15
Trichlorofluoromethane		1.5	0.56	0.84	ug/m3	TO-15
m,p-Xylene		3.9	0.87	0.61	ug/m3	TO-15
o-Xylene		1.6	0.87	0.33	ug/m3	TO-15
Xylenes (total)		5.5	0.87	0.33	ug/m3	TO-15

JE5976-6 754020-DUP-1-2182025

Acetone (2-Propanone)	1340	8.0	5.8	ppbv	TO-15
Benzene	0.38	0.20	0.047	ppbv	TO-15
Chloromethane	0.78	0.20	0.090	ppbv	TO-15
Cyclohexane	1.5	0.20	0.045	ppbv	TO-15
Dichlorodifluoromethane	0.54	0.20	0.10	ppbv	TO-15
Ethanol	17.1	0.50	0.39	ppbv	TO-15
Ethylbenzene	0.34	0.20	0.061	ppbv	TO-15
Ethyl Acetate	14.0	0.20	0.10	ppbv	TO-15
4-Ethyltoluene	0.29	0.20	0.095	ppbv	TO-15
Heptane	19.4	0.20	0.091	ppbv	TO-15
Hexane	0.99	0.20	0.052	ppbv	TO-15
Isopropyl Alcohol	1.0	0.20	0.14	ppbv	TO-15
Methylene chloride	0.37	0.20	0.13	ppbv	TO-15
Methyl ethyl ketone	0.23	0.20	0.11	ppbv	TO-15
1,2,4-Trimethylbenzene	1.0	0.20	0.087	ppbv	TO-15
1,3,5-Trimethylbenzene	0.29	0.20	0.080	ppbv	TO-15
2,2,4-Trimethylpentane	2.9	0.20	0.040	ppbv	TO-15
Tetrachloroethylene	0.17	0.040	0.014	ppbv	TO-15
Toluene	3.7	0.20	0.057	ppbv	TO-15
Trichloroethylene	0.037 J	0.040	0.019	ppbv	TO-15
Trichlorofluoromethane	0.26	0.10	0.15	ppbv	TO-15
m,p-Xylene	1.2	0.20	0.14	ppbv	TO-15
o-Xylene	0.54	0.20	0.077	ppbv	TO-15
Xylenes (total)	1.7	0.20	0.077	ppbv	TO-15
Acetone (2-Propanone)	3180	19	14	ug/m3	TO-15
Benzene	1.2	0.64	0.15	ug/m3	TO-15
Chloromethane	1.6	0.41	0.19	ug/m3	TO-15
Cyclohexane	5.2	0.69	0.15	ug/m3	TO-15
Dichlorodifluoromethane	2.7	0.99	0.49	ug/m3	TO-15
Ethanol	32.2	0.94	0.73	ug/m3	TO-15
Ethylbenzene	1.5	0.87	0.26	ug/m3	TO-15
Ethyl Acetate	50.4	0.72	0.36	ug/m3	TO-15

Summary of Hits

Job Number: JE5976
Account: EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Collected: 02/18/25 thru 02/19/25



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
4-Ethyltoluene		1.4	0.98	0.47	ug/m3	TO-15
Heptane		79.5	0.82	0.37	ug/m3	TO-15
Hexane		3.5	0.70	0.18	ug/m3	TO-15
Isopropyl Alcohol		2.5	0.49	0.34	ug/m3	TO-15
Methylene chloride		1.3	0.69	0.45	ug/m3	TO-15
Methyl ethyl ketone		0.68	0.59	0.32	ug/m3	TO-15
1,2,4-Trimethylbenzene		4.9	0.98	0.43	ug/m3	TO-15
1,3,5-Trimethylbenzene		1.4	0.98	0.39	ug/m3	TO-15
2,2,4-Trimethylpentane		14	0.93	0.19	ug/m3	TO-15
Tetrachloroethylene		1.2	0.27	0.095	ug/m3	TO-15
Toluene		14	0.75	0.21	ug/m3	TO-15
Trichloroethylene		0.20 J	0.21	0.10	ug/m3	TO-15
Trichlorofluoromethane		1.5	0.56	0.84	ug/m3	TO-15
m,p-Xylene		5.2	0.87	0.61	ug/m3	TO-15
o-Xylene		2.3	0.87	0.33	ug/m3	TO-15
Xylenes (total)		7.5	0.87	0.33	ug/m3	TO-15

JE5976-7 754020-SS-3-20250218

Acetone (2-Propanone)	10.6	0.80	0.58	ppbv	TO-15
Benzene	0.62 J	0.80	0.19	ppbv	TO-15
Ethanol	2.1	2.0	1.6	ppbv	TO-15
Ethyl Acetate	1.1	0.80	0.42	ppbv	TO-15
Hexane	0.42 J	0.80	0.21	ppbv	TO-15
Isopropyl Alcohol	0.64 J	0.80	0.56	ppbv	TO-15
Methyl ethyl ketone	0.87	0.80	0.44	ppbv	TO-15
1,2,4-Trimethylbenzene	0.69 J	0.80	0.35	ppbv	TO-15
Tetrachloroethylene	20.9	0.16	0.056	ppbv	TO-15
Toluene	0.72 J	0.80	0.23	ppbv	TO-15
Trichloroethylene	0.80	0.16	0.076	ppbv	TO-15
Acetone (2-Propanone)	25.2	1.9	1.4	ug/m3	TO-15
Benzene	2.0 J	2.6	0.61	ug/m3	TO-15
Ethanol	4.0	3.8	3.0	ug/m3	TO-15
Ethyl Acetate	4.0	2.9	1.5	ug/m3	TO-15
Hexane	1.5 J	2.8	0.74	ug/m3	TO-15
Isopropyl Alcohol	1.6 J	2.0	1.4	ug/m3	TO-15
Methyl ethyl ketone	2.6	2.4	1.3	ug/m3	TO-15
1,2,4-Trimethylbenzene	3.4 J	3.9	1.7	ug/m3	TO-15
Tetrachloroethylene	142	1.1	0.38	ug/m3	TO-15
Toluene	2.7 J	3.0	0.87	ug/m3	TO-15
Trichloroethylene	4.3	0.86	0.41	ug/m3	TO-15

JE5976-8 754020-IA-4-2182025

Acetone (2-Propanone)	41.8	0.20	0.15	ppbv	TO-15

Summary of Hits

Job Number: JE5976
Account: EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Collected: 02/18/25 thru 02/19/25



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
1,3-Butadiene		5.8	0.20	0.084	ppbv	TO-15
Benzene		5.7	0.20	0.047	ppbv	TO-15
Chloroform		0.14 J	0.20	0.037	ppbv	TO-15
Chloromethane		0.63	0.20	0.090	ppbv	TO-15
Cyclohexane		0.13 J	0.20	0.045	ppbv	TO-15
Dichlorodifluoromethane		0.48	0.20	0.10	ppbv	TO-15
Ethanol		25.8	0.50	0.39	ppbv	TO-15
Ethylbenzene		0.14 J	0.20	0.061	ppbv	TO-15
Heptane		0.48	0.20	0.091	ppbv	TO-15
Hexane		0.32	0.20	0.052	ppbv	TO-15
Isopropyl Alcohol		4.7	0.20	0.14	ppbv	TO-15
Methylene chloride		0.24	0.20	0.13	ppbv	TO-15
Methyl ethyl ketone		0.41	0.20	0.11	ppbv	TO-15
1,2,4-Trimethylbenzene		0.14 J	0.20	0.087	ppbv	TO-15
2,2,4-Trimethylpentane		1.3	0.20	0.040	ppbv	TO-15
Toluene		0.92	0.20	0.057	ppbv	TO-15
Trichlorofluoromethane		0.28	0.10	0.15	ppbv	TO-15
m,p-Xylene		0.38	0.20	0.14	ppbv	TO-15
o-Xylene		0.16 J	0.20	0.077	ppbv	TO-15
Xylenes (total)		0.54	0.20	0.077	ppbv	TO-15
Acetone (2-Propanone)		99.3	0.48	0.36	ug/m3	TO-15
1,3-Butadiene		13	0.44	0.19	ug/m3	TO-15
Benzene		18	0.64	0.15	ug/m3	TO-15
Chloroform		0.68 J	0.98	0.18	ug/m3	TO-15
Chloromethane		1.3	0.41	0.19	ug/m3	TO-15
Cyclohexane		0.45 J	0.69	0.15	ug/m3	TO-15
Dichlorodifluoromethane		2.4	0.99	0.49	ug/m3	TO-15
Ethanol		48.6	0.94	0.73	ug/m3	TO-15
Ethylbenzene		0.61 J	0.87	0.26	ug/m3	TO-15
Heptane		2.0	0.82	0.37	ug/m3	TO-15
Hexane		1.1	0.70	0.18	ug/m3	TO-15
Isopropyl Alcohol		12	0.49	0.34	ug/m3	TO-15
Methylene chloride		0.83	0.69	0.45	ug/m3	TO-15
Methyl ethyl ketone		1.2	0.59	0.32	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.69 J	0.98	0.43	ug/m3	TO-15
2,2,4-Trimethylpentane		6.1	0.93	0.19	ug/m3	TO-15
Toluene		3.5	0.75	0.21	ug/m3	TO-15
Trichlorofluoromethane		1.6	0.56	0.84	ug/m3	TO-15
m,p-Xylene		1.7	0.87	0.61	ug/m3	TO-15
o-Xylene		0.69 J	0.87	0.33	ug/m3	TO-15
Xylenes (total)		2.4	0.87	0.33	ug/m3	TO-15

JE5976-9 754020-CS-4-20250218

Acetone (2-Propanone)	1.3	0.80	0.58	ppbv	TO-15

Summary of Hits

Job Number: JE5976
Account: EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Collected: 02/18/25 thru 02/19/25



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chloromethane		0.47 J	0.80	0.36	ppbv	TO-15
Ethyl Acetate		2.4	0.80	0.42	ppbv	TO-15
Acetone (2-Propanone)		3.1	1.9	1.4	ug/m3	TO-15
Chloromethane		0.97 J	1.7	0.74	ug/m3	TO-15
Ethyl Acetate		8.6	2.9	1.5	ug/m3	TO-15

JE5976-10 754020-OA-1-2182025

Acetone (2-Propanone)	2.0	0.20	0.15	ppbv	TO-15
Benzene	0.10 J	0.20	0.047	ppbv	TO-15
Chloromethane	0.44	0.20	0.090	ppbv	TO-15
Dichlorodifluoromethane	0.34	0.20	0.10	ppbv	TO-15
Ethyl Acetate	0.97	0.20	0.10	ppbv	TO-15
Trichlorofluoromethane	0.17	0.10	0.15	ppbv	TO-15
Acetone (2-Propanone)	4.8	0.48	0.36	ug/m3	TO-15
Benzene	0.32 J	0.64	0.15	ug/m3	TO-15
Chloromethane	0.91	0.41	0.19	ug/m3	TO-15
Dichlorodifluoromethane	1.7	0.99	0.49	ug/m3	TO-15
Ethyl Acetate	3.5	0.72	0.36	ug/m3	TO-15
Trichlorofluoromethane	0.96	0.56	0.84	ug/m3	TO-15

JE5976-11 754020-IA-5-2182025

Acetone (2-Propanone)	11.7	0.20	0.15	ppbv	TO-15
Benzene	0.14 J	0.20	0.047	ppbv	TO-15
Chloroform	0.20	0.20	0.037	ppbv	TO-15
Dichlorodifluoromethane	0.10 J	0.20	0.10	ppbv	TO-15
Ethanol	1.3	0.50	0.39	ppbv	TO-15
Ethyl Acetate	2.2	0.20	0.10	ppbv	TO-15
Hexane	0.30	0.20	0.052	ppbv	TO-15
Isopropyl Alcohol	0.39	0.20	0.14	ppbv	TO-15
Methylene chloride	0.33	0.20	0.13	ppbv	TO-15
Methyl ethyl ketone	0.39	0.20	0.11	ppbv	TO-15
1,1,1-Trichloroethane	0.22	0.10	0.078	ppbv	TO-15
Tertiary Butyl Alcohol	0.12 J	0.20	0.093	ppbv	TO-15
Tetrahydrofuran	2.5	0.20	0.090	ppbv	TO-15
Trichlorofluoromethane	0.47	0.10	0.15	ppbv	TO-15
Acetone (2-Propanone)	27.8	0.48	0.36	ug/m3	TO-15
Benzene	0.45 J	0.64	0.15	ug/m3	TO-15
Chloroform	0.98	0.98	0.18	ug/m3	TO-15
Dichlorodifluoromethane	0.49 J	0.99	0.49	ug/m3	TO-15
Ethanol	2.4	0.94	0.73	ug/m3	TO-15
Ethyl Acetate	7.9	0.72	0.36	ug/m3	TO-15
Hexane	1.1	0.70	0.18	ug/m3	TO-15
Isopropyl Alcohol	0.96	0.49	0.34	ug/m3	TO-15

Summary of Hits

Job Number: JE5976
Account: EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Collected: 02/18/25 thru 02/19/25



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Methylene chloride		1.1	0.69	0.45	ug/m3	TO-15
Methyl ethyl ketone		1.2	0.59	0.32	ug/m3	TO-15
1,1,1-Trichloroethane		1.2	0.55	0.43	ug/m3	TO-15
Tertiary Butyl Alcohol		0.36 J	0.61	0.28	ug/m3	TO-15
Tetrahydrofuran		7.4	0.59	0.27	ug/m3	TO-15
Trichlorofluoromethane		2.6	0.56	0.84	ug/m3	TO-15

JE5976-12 754020-DUP-2-2182025

Acetone (2-Propanone)	12.0	0.20	0.15	ppbv	TO-15
Benzene	0.13 J	0.20	0.047	ppbv	TO-15
Chloroform	0.22	0.20	0.037	ppbv	TO-15
Ethanol	1.2	0.50	0.39	ppbv	TO-15
Ethyl Acetate	2.2	0.20	0.10	ppbv	TO-15
Hexane	0.24	0.20	0.052	ppbv	TO-15
Isopropyl Alcohol	0.50	0.20	0.14	ppbv	TO-15
Methylene chloride	0.28	0.20	0.13	ppbv	TO-15
Methyl ethyl ketone	0.33	0.20	0.11	ppbv	TO-15
1,1,1-Trichloroethane	0.18	0.10	0.078	ppbv	TO-15
Tertiary Butyl Alcohol	0.12 J	0.20	0.093	ppbv	TO-15
Tetrahydrofuran	2.5	0.20	0.090	ppbv	TO-15
Trichlorofluoromethane	0.42	0.10	0.15	ppbv	TO-15
Acetone (2-Propanone)	28.5	0.48	0.36	ug/m3	TO-15
Benzene	0.42 J	0.64	0.15	ug/m3	TO-15
Chloroform	1.1	0.98	0.18	ug/m3	TO-15
Ethanol	2.3	0.94	0.73	ug/m3	TO-15
Ethyl Acetate	7.9	0.72	0.36	ug/m3	TO-15
Hexane	0.85	0.70	0.18	ug/m3	TO-15
Isopropyl Alcohol	1.2	0.49	0.34	ug/m3	TO-15
Methylene chloride	0.97	0.69	0.45	ug/m3	TO-15
Methyl ethyl ketone	0.97	0.59	0.32	ug/m3	TO-15
1,1,1-Trichloroethane	0.98	0.55	0.43	ug/m3	TO-15
Tertiary Butyl Alcohol	0.36 J	0.61	0.28	ug/m3	TO-15
Tetrahydrofuran	7.4	0.59	0.27	ug/m3	TO-15
Trichlorofluoromethane	2.4	0.56	0.84	ug/m3	TO-15

JE5976-13 754020-SS-5-20250218

Acetone (2-Propanone)	2.5	0.80	0.58	ppbv	TO-15
Ethyl Acetate	0.96	0.80	0.42	ppbv	TO-15
Acetone (2-Propanone)	5.9	1.9	1.4	ug/m3	TO-15
Ethyl Acetate	3.5	2.9	1.5	ug/m3	TO-15

Summary of Hits

Job Number: JE5976
Account: EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Collected: 02/18/25 thru 02/19/25



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JE5976-14 754020-SS-6-20250218

Acetone (2-Propanone)	2.7	0.80	0.58	ppbv	TO-15
Dichlorodifluoromethane	0.46 J	0.80	0.42	ppbv	TO-15
Ethyl Acetate	6.0	0.80	0.42	ppbv	TO-15
Freon 114	1.2	0.40	0.20	ppbv	TO-15
1,2,4-Trimethylbenzene	0.49 J	0.80	0.35	ppbv	TO-15
Acetone (2-Propanone)	6.4	1.9	1.4	ug/m3	TO-15
Dichlorodifluoromethane	2.3 J	4.0	2.1	ug/m3	TO-15
Ethyl Acetate	22	2.9	1.5	ug/m3	TO-15
Freon 114	8.4	2.8	1.4	ug/m3	TO-15
1,2,4-Trimethylbenzene	2.4 J	3.9	1.7	ug/m3	TO-15

JE5976-15 754020-IA-6-2182025

Acetone (2-Propanone)	13.4	0.20	0.15	ppbv	TO-15
Benzene	0.18 J	0.20	0.047	ppbv	TO-15
Chloromethane	0.63	0.20	0.090	ppbv	TO-15
Dichlorodifluoromethane	0.49	0.20	0.10	ppbv	TO-15
Ethanol	7.1	0.50	0.39	ppbv	TO-15
Ethyl Acetate	2.4	0.20	0.10	ppbv	TO-15
Hexane	1.1	0.20	0.052	ppbv	TO-15
Isopropyl Alcohol	5.0	0.20	0.14	ppbv	TO-15
Methylene chloride	0.84	0.20	0.13	ppbv	TO-15
Methyl ethyl ketone	0.30	0.20	0.11	ppbv	TO-15
1,1,1-Trichloroethane	0.14	0.10	0.078	ppbv	TO-15
2,2,4-Trimethylpentane	0.29	0.20	0.040	ppbv	TO-15
Tetrachloroethylene	0.037 J	0.040	0.014	ppbv	TO-15
Tetrahydrofuran	0.19 J	0.20	0.090	ppbv	TO-15
Toluene	0.36	0.20	0.057	ppbv	TO-15
Trichlorofluoromethane	0.38	0.10	0.15	ppbv	TO-15
m,p-Xylene	0.21	0.20	0.14	ppbv	TO-15
Xylenes (total)	0.21	0.20	0.077	ppbv	TO-15
Acetone (2-Propanone)	31.8	0.48	0.36	ug/m3	TO-15
Benzene	0.58 J	0.64	0.15	ug/m3	TO-15
Chloromethane	1.3	0.41	0.19	ug/m3	TO-15
Dichlorodifluoromethane	2.4	0.99	0.49	ug/m3	TO-15
Ethanol	13	0.94	0.73	ug/m3	TO-15
Ethyl Acetate	8.6	0.72	0.36	ug/m3	TO-15
Hexane	3.9	0.70	0.18	ug/m3	TO-15
Isopropyl Alcohol	12	0.49	0.34	ug/m3	TO-15
Methylene chloride	2.9	0.69	0.45	ug/m3	TO-15
Methyl ethyl ketone	0.88	0.59	0.32	ug/m3	TO-15
1,1,1-Trichloroethane	0.76	0.55	0.43	ug/m3	TO-15
2,2,4-Trimethylpentane	1.4	0.93	0.19	ug/m3	TO-15

Summary of Hits

Job Number: JE5976
Account: EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Collected: 02/18/25 thru 02/19/25



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Analyte						
Tetrachloroethylene		0.25 J	0.27	0.095	ug/m3	TO-15
Tetrahydrofuran		0.56 J	0.59	0.27	ug/m3	TO-15
Toluene		1.4	0.75	0.21	ug/m3	TO-15
Trichlorofluoromethane		2.1	0.56	0.84	ug/m3	TO-15
m,p-Xylene		0.91	0.87	0.61	ug/m3	TO-15
Xylenes (total)		0.91	0.87	0.33	ug/m3	TO-15



Dayton, NJ

Section 4

4

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	754020-IA-1-2182025	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-1	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A633	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57167.D	1	03/03/25 18:51	TCH	n/a	n/a	V5W2193
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	4.1	0.20	0.15	ppbv		9.7	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.047	ppbv	J	0.45	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.63	0.20	0.090	ppbv		1.3	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.48	0.20	0.10	ppbv		2.4	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 754020-IA-1-2182025
Lab Sample ID: JE5976-1
Matrix: AIR - Indoor Air Comp. Summa ID: A633
Method: TO-15
Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25
Date Received: 02/20/25
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	9.9	0.50	0.39	ppbv		19	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	0.19	0.20	0.061	ppbv	J	0.83	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	0.24	0.20	0.10	ppbv		0.86	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	0.16	0.10	0.031	ppbv		1.2	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.10	0.20	0.052	ppbv	J	0.35	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.93	0.20	0.14	ppbv		2.3	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.22	0.20	0.13	ppbv		0.76	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.23	0.20	0.11	ppbv		0.68	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.23	0.20	0.090	ppbv		0.68	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.20	0.057	ppbv		ND	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	0.065	0.040	0.019	ppbv		0.35	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.28	0.10	0.15	ppbv		1.6	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		65-128%

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	754020-SS-1-20250218	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-2	Date Received:	02/20/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: M223	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13227.D	1	03/06/25 18:03	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	3.7	0.80	0.58	ppbv		8.8	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.19	ppbv		ND	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	0.40	0.80	0.18	ppbv	J	1.4	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 754020-SS-1-20250218
Lab Sample ID: JE5976-2
Matrix: AIR - Soil Vapor Comp. Summa ID: M223
Method: TO-15
Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25

Date Received: 02/20/25

Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	33.9	0.40	0.12	ppbv		260	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	2.9	0.80	0.36	ppbv		12	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	2.5	0.80	0.21	ppbv		8.8	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.53	0.40	0.31	ppbv		2.9	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.5	0.16	0.056	ppbv		10	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	0.93	0.80	0.23	ppbv		3.5	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	4.0	0.16	0.076	ppbv		21	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	754020-IA-2-2182025		
Lab Sample ID:	JE5976-3	Date Sampled:	02/18/25
Matrix:	AIR - Indoor Air Comp.	Date Received:	02/20/25
Method:	TO-15	Percent Solids:	n/a
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57180.D	1	03/04/25 23:15	TCH	n/a	n/a	V5W2194
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	6.7	0.20	0.15	ppbv		16	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.047	ppbv	J	0.45	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.70	0.20	0.090	ppbv		1.4	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.48	0.20	0.10	ppbv		2.4	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 754020-IA-2-2182025
Lab Sample ID: JE5976-3
Matrix: AIR - Indoor Air Comp. Summa ID: A2191
Method: TO-15
Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25

Date Received: 02/20/25

Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	19.8	0.50	0.39	ppbv		37.3	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	5.2	0.20	0.10	ppbv		19	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.21	0.20	0.052	ppbv		0.74	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.2	0.20	0.14	ppbv		5.4	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.43	0.20	0.13	ppbv		1.5	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.22	0.20	0.11	ppbv		0.65	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.14	0.20	0.093	ppbv	J	0.42	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.15	0.040	0.014	ppbv		1.0	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	0.33	0.20	0.057	ppbv		1.2	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	0.19	0.040	0.019	ppbv		1.0	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.31	0.10	0.15	ppbv		1.7	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	0.26	0.20	0.11	ppbv		0.91	0.70	0.39	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID:	754020-SS-2-20250218	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-4	Date Received:	02/20/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A852	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13238.D	1	03/07/25 01:12	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	1.7	0.80	0.58	ppbv		4.0	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.19	ppbv		ND	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	754020-SS-2-20250218	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-4	Date Received:	02/20/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A852	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	0.96	0.80	0.42	ppbv		3.5	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.36	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.31	ppbv		ND	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	19.3	0.16	0.056	ppbv		131	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

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Client Sample ID:	754020-IA-3-2182025	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-5	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1876	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57182.D	1	03/05/25 01:06	TCH	n/a	n/a	V5W2194
Run #2	5W57194.D	1	03/05/25 11:07	TCH	n/a	n/a	V5W2194

	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	586 ^a	4.0	2.9	ppbv		1390 ^a	9.5	6.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.28	0.20	0.047	ppbv		0.89	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.77	0.20	0.090	ppbv		1.6	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	0.74	0.20	0.045	ppbv		2.5	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.55	0.20	0.10	ppbv		2.7	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	754020-IA-3-2182025	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-5	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1876	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	17.9	0.50	0.39	ppbv		33.7	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	0.25	0.20	0.061	ppbv		1.1	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	0.13	0.20	0.10	ppbv	J	0.47	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.12	0.20	0.095	ppbv	J	0.59	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	7.9	0.20	0.091	ppbv		32	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.65	0.20	0.052	ppbv		2.3	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.59	0.20	0.14	ppbv		1.5	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.23	0.20	0.13	ppbv		0.80	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.23	0.20	0.11	ppbv		0.68	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.39	0.20	0.087	ppbv		1.9	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.12	0.20	0.080	ppbv	J	0.59	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	2.5	0.20	0.040	ppbv		12	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	2.2	0.20	0.057	ppbv		8.3	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.27	0.10	0.15	ppbv		1.5	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	0.89	0.20	0.14	ppbv		3.9	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	0.37	0.20	0.077	ppbv		1.6	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	1.3	0.20	0.077	ppbv		5.5	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%	102%	65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	754020-IA-3-2182025	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-5	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1876	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected	MDL = Method Detection Limit	J = Indicates an estimated value
RL = Reporting Limit		B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range		N = Indicates presumptive evidence of a compound

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SGS North America Inc.

Report of Analysis

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Client Sample ID:	754020-DUP-1-2182025		
Lab Sample ID:	JE5976-6	Date Sampled:	02/18/25
Matrix:	AIR - Indoor Air Comp.	Date Received:	02/20/25
Method:	TO-15	Percent Solids:	n/a
Project:	Sulphur Springs Road, Binghamton, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57183.D	1	03/05/25 02:00	TCH	n/a	n/a	V5W2194
Run #2	5W57239.D	1	03/07/25 02:25	TCH	n/a	n/a	V5W2196

	Initial Volume
Run #1	400 ml
Run #2	10.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	1340 ^a	8.0	5.8	ppbv		3180 ^a	19	14	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.38	0.20	0.047	ppbv		1.2	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.78	0.20	0.090	ppbv		1.6	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	1.5	0.20	0.045	ppbv		5.2	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.54	0.20	0.10	ppbv		2.7	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 754020-DUP-1-2182025

Lab Sample ID: JE5976-6

Date Sampled: 02/18/25

Matrix: AIR - Indoor Air Comp. Summa ID: A2126

Date Received: 02/20/25

Method: TO-15

Percent Solids: n/a

Project: Sulphur Springs Road, Binghamton, NY

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	17.1	0.50	0.39	ppbv		32.2	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	0.34	0.20	0.061	ppbv		1.5	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	14.0	0.20	0.10	ppbv		50.4	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.29	0.20	0.095	ppbv		1.4	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	19.4	0.20	0.091	ppbv		79.5	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.99	0.20	0.052	ppbv		3.5	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.0	0.20	0.14	ppbv		2.5	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.37	0.20	0.13	ppbv		1.3	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.23	0.20	0.11	ppbv		0.68	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	1.0	0.20	0.087	ppbv		4.9	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.29	0.20	0.080	ppbv		1.4	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	2.9	0.20	0.040	ppbv		14	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.17	0.040	0.014	ppbv		1.2	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	3.7	0.20	0.057	ppbv		14	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	0.037	0.040	0.019	ppbv	J	0.20	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.10	0.15	ppbv		1.5	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	1.2	0.20	0.14	ppbv		5.2	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	0.54	0.20	0.077	ppbv		2.3	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	1.7	0.20	0.077	ppbv		7.5	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%	104%	65-128%

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	754020-DUP-1-2182025	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-6	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A2126	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	754020-SS-3-20250218		
Lab Sample ID:	JE5976-7	Date Sampled:	02/18/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1859	Date Received:	02/20/25
Method:	TO-15	Percent Solids:	n/a
Project:	Sulphur Springs Road, Binghamton, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13239.D	1	03/07/25 01:50	WC	n/a	n/a	V7W465
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	10.6	0.80	0.58	ppbv		25.2	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	0.62	0.80	0.19	ppbv	J	2.0	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	754020-SS-3-20250218	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-7	Date Received:	02/20/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1859	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	2.1	2.0	1.6	ppbv		4.0	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	1.1	0.80	0.42	ppbv		4.0	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.36	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	0.42	0.80	0.21	ppbv	J	1.5	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.64	0.80	0.56	ppbv	J	1.6	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.87	0.80	0.44	ppbv		2.6	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.31	ppbv		ND	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.69	0.80	0.35	ppbv	J	3.4	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	20.9	0.16	0.056	ppbv		142	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	0.72	0.80	0.23	ppbv	J	2.7	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.80	0.16	0.076	ppbv		4.3	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	754020-IA-4-2182025	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-8	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1846	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57184.D	1	03/05/25 02:54	TCH	n/a	n/a	V5W2194
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	41.8	0.20	0.15	ppbv		99.3	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	5.8	0.20	0.084	ppbv		13	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	5.7	0.20	0.047	ppbv		18	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	0.14	0.20	0.037	ppbv	J	0.68	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.63	0.20	0.090	ppbv		1.3	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	0.13	0.20	0.045	ppbv	J	0.45	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.48	0.20	0.10	ppbv		2.4	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	754020-IA-4-2182025	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-8	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1846	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	25.8	0.50	0.39	ppbv		48.6	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	0.14	0.20	0.061	ppbv	J	0.61	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	0.48	0.20	0.091	ppbv		2.0	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.32	0.20	0.052	ppbv		1.1	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	4.7	0.20	0.14	ppbv		12	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.24	0.20	0.13	ppbv		0.83	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.41	0.20	0.11	ppbv		1.2	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.14	0.20	0.087	ppbv	J	0.69	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.3	0.20	0.040	ppbv		6.1	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	0.92	0.20	0.057	ppbv		3.5	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.28	0.10	0.15	ppbv		1.6	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	0.38	0.20	0.14	ppbv		1.7	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	0.16	0.20	0.077	ppbv	J	0.69	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	0.54	0.20	0.077	ppbv		2.4	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		65-128%

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	754020-CS-4-20250218	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-9	Date Received:	02/20/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A2188	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13240.D	1	03/07/25 02:29	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	1.3	0.80	0.58	ppbv		3.1	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.19	ppbv		ND	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.47	0.80	0.36	ppbv	J	0.97	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 754020-CS-4-20250218

Lab Sample ID: JE5976-9

Date Sampled: 02/19/25

Matrix: AIR - Soil Vapor Comp. Summa ID: A2188

Date Received: 02/20/25

Method: TO-15

Percent Solids: n/a

Project: Sulphur Springs Road, Binghamton, NY

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	2.4	0.80	0.42	ppbv		8.6	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.36	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.31	ppbv		ND	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	754020-OA-1-2182025	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-10	Date Received:	02/20/25
Matrix:	AIR - Ambient Air Comp. Summa ID: A1863	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13241.D	1	03/07/25 03:13	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	2.0	0.20	0.15	ppbv		4.8	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.10	0.20	0.047	ppbv	J	0.32	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.44	0.20	0.090	ppbv		0.91	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.34	0.20	0.10	ppbv		1.7	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	754020-OA-1-2182025	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-10	Date Received:	02/20/25
Matrix:	AIR - Ambient Air Comp. Summa ID: A1863	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	0.97	0.20	0.10	ppbv		3.5	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	ND	0.20	0.052	ppbv		ND	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.20	0.057	ppbv		ND	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.17	0.10	0.15	ppbv		0.96	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		65-128%

ND = Not detected MDL = Method Detection Limit

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E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	754020-IA-5-2182025	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-11	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A864	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57185.D	1	03/05/25 03:48	TCH	n/a	n/a	V5W2194
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	11.7	0.20	0.15	ppbv		27.8	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.047	ppbv	J	0.45	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	0.20	0.20	0.037	ppbv		0.98	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.10	0.20	0.10	ppbv	J	0.49	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 754020-IA-5-2182025
Lab Sample ID: JE5976-11
Matrix: AIR - Indoor Air Comp. Summa ID: A864
Method: TO-15
Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/19/25
Date Received: 02/20/25
Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	1.3	0.50	0.39	ppbv		2.4	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	2.2	0.20	0.10	ppbv		7.9	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.30	0.20	0.052	ppbv		1.1	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.39	0.20	0.14	ppbv		0.96	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.33	0.20	0.13	ppbv		1.1	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.39	0.20	0.11	ppbv		1.2	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.22	0.10	0.078	ppbv		1.2	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.12	0.20	0.093	ppbv	J	0.36	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.5	0.20	0.090	ppbv		7.4	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.20	0.057	ppbv		ND	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.47	0.10	0.15	ppbv		2.6	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	754020-DUP-2-2182025		
Lab Sample ID:	JE5976-12	Date Sampled:	02/19/25
Matrix:	AIR - Indoor Air Comp.	Date Received:	02/20/25
Method:	TO-15	Percent Solids:	n/a
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57186.D	1	03/05/25 04:40	TCH	n/a	n/a	V5W2194
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	12.0	0.20	0.15	ppbv		28.5	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.13	0.20	0.047	ppbv	J	0.42	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	0.22	0.20	0.037	ppbv		1.1	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 754020-DUP-2-2182025

Lab Sample ID: JE5976-12

Date Sampled: 02/19/25

Matrix: AIR - Indoor Air Comp. Summa ID: A1114

Date Received: 02/20/25

Method: TO-15

Percent Solids: n/a

Project: Sulphur Springs Road, Binghamton, NY

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	1.2	0.50	0.39	ppbv		2.3	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	2.2	0.20	0.10	ppbv		7.9	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.24	0.20	0.052	ppbv		0.85	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.50	0.20	0.14	ppbv		1.2	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.28	0.20	0.13	ppbv		0.97	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.33	0.20	0.11	ppbv		0.97	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.18	0.10	0.078	ppbv		0.98	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.12	0.20	0.093	ppbv	J	0.36	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.5	0.20	0.090	ppbv		7.4	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.20	0.057	ppbv		ND	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.42	0.10	0.15	ppbv		2.4	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	754020-SS-5-20250218		
Lab Sample ID:	JE5976-13		
Matrix:	AIR - Soil Vapor Comp.	Summa ID: A226	Date Sampled: 02/19/25
Method:	TO-15		Date Received: 02/20/25
Project:	Sulphur Springs Road, Binghamton, NY		Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13242.D	1	03/07/25 03:52	WC	n/a	n/a	V7W465
Run #2							

	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	2.5	0.80	0.58	ppbv		5.9	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.19	ppbv		ND	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected

MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

4.13
4

Report of Analysis

Client Sample ID:	754020-SS-5-20250218	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-13	Date Received:	02/20/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A226	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	0.96	0.80	0.42	ppbv		3.5	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.36	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.31	ppbv		ND	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		65-128%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	754020-SS-6-20250218	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-14	Date Received:	02/20/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1276	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13243.D	1	03/07/25 04:32	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	2.7	0.80	0.58	ppbv		6.4	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.19	ppbv		ND	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.46	0.80	0.42	ppbv	J	2.3	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 754020-SS-6-20250218

Lab Sample ID: JE5976-14

Date Sampled: 02/19/25

Matrix: AIR - Soil Vapor Comp. Summa ID: A1276

Date Received: 02/20/25

Method: TO-15

Percent Solids: n/a

Project: Sulphur Springs Road, Binghamton, NY

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	6.0	0.80	0.42	ppbv		22	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	1.2	0.40	0.20	ppbv		8.4	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.36	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.31	ppbv		ND	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.49	0.80	0.35	ppbv	J	2.4	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Page 1 of 2

Client Sample ID:	754020-IA-6-2182025		
Lab Sample ID:	JE5976-15	Date Sampled:	02/19/25
Matrix:	AIR - Indoor Air Comp.	Date Received:	02/20/25
Method:	TO-15	Percent Solids:	n/a
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57187.D	1	03/05/25 05:31	TCH	n/a	n/a	V5W2194
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	13.4	0.20	0.15	ppbv		31.8	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.18	0.20	0.047	ppbv	J	0.58	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.63	0.20	0.090	ppbv		1.3	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.20	0.10	ppbv		2.4	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: 754020-IA-6-2182025
Lab Sample ID: JE5976-15
Matrix: AIR - Indoor Air Comp. Summa ID: A2135
Method: TO-15
Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/19/25**Date Received:** 02/20/25**Percent Solids:** n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	7.1	0.50	0.39	ppbv		13	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	2.4	0.20	0.10	ppbv		8.6	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	1.1	0.20	0.052	ppbv		3.9	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	5.0	0.20	0.14	ppbv		12	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.84	0.20	0.13	ppbv		2.9	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.30	0.20	0.11	ppbv		0.88	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.14	0.10	0.078	ppbv		0.76	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.29	0.20	0.040	ppbv		1.4	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.037	0.040	0.014	ppbv	J	0.25	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.19	0.20	0.090	ppbv	J	0.56	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	0.36	0.20	0.057	ppbv		1.4	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.38	0.10	0.15	ppbv		2.1	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	0.21	0.20	0.14	ppbv		0.91	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	0.21	0.20	0.077	ppbv		0.91	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log
- Sample Tracking Chronicle
- Internal Chain of Custody
- 2024 MDL Study - Method: TO-15



AIR

AIR CHAIN OF CUSTODY

7377 5690 7486

PAGE 1 OF 2

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200
www.sgs.com/enhsusa

7377 5690 7453

7377 5690 7441

FED-EX Tracking #
1377 5690 7475
SGS Quote #Order # 02042556
SGS Job #
JE5976

Client / Reporting Information				Project Information				Weather Parameters				Requested Analysis					
Company Name: EA Eng. Science & Tech				Project Name: Sulphur Springs Road Fill Area				Temperature (Fahrenheit)				Requested Analysis: VT015STD16L/8hr, VT015STD16L/24hr					
Address: 333 W. Washington St, Suite 300				Street: Sulphur Springs Rd				Start: 5 Maximum: 18									
City: Syracuse NY Zip: 13202				City: Oneida NY				Stop: 18 Minimum: 5									
Project Contact: Megan Miller E-mail: mmiller@eaest.com				Project #: 754020 (EAENYS99766)				Atmospheric Pressure (inches of Hg)									
Phone #: (716) 680-2618 Fax #:				Client Purchase Order #: 160253900/2.1.1				Start: 30.16 Maximum: 30.32									
Sampler(s) Name(s): Alex Strogenke, Matt Boyle								Stop: 30.32 Minimum: 30.14									
								Other weather comment:									
Lab Sample #		Field ID / Point of Collection		Sampling Equipment Info		Start Sampling Information				Stop Sampling Information							
				Air Type	Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.	Date	Time (24hr clock)	Canister Pressure ("Hg)	Interior Temp (F)	Sampler Init.
01	754020-IA-1-2182024	I	A633	6L	FC584	21/8/24	0740	-30	65	AS	21/8/24	1535	-5	65	AS	X	
02	754020-SV-1-2182024	SV	M223	6L	FC1019	21/8/24	0815	-29	65	AS	21/8/24	1515	-5	65	AS	X	
03	754020-IA-2-2182024	I	A2191	6L	MC228	21/8/24	0900	-29.5	63	AS	21/8/24	1652	-5	63	AS	X	
04	754020-SV-2-2182024	SV	A852	6L	FC567	21/8/24	0927	-30+	63	AS	21/8/24	1727	-5	63	AS	X	
05	754020-IA-3-2182024	I	A1876	6L	FC770	21/8/24	1030	-30	35	AS	21/8/24	1830	-7	35	AS	X	
06	754020-DUP-1-2182024	I	A2126	6L	FC1091	21/8/24	1100	-28	35	AS	21/8/24	1835	-6	35	AS	X	
07	754020-SV-3-2182024	SV	A1859	6L	FC1259	21/8/24	1035	-29	35	AS	21/8/24	1835	-6	35	AS	X	
08	754020-IA-4-2182024	I	A1846	6L	FC1219	21/8/24	1100	-29	65	AS	21/9/24	0935	-5	65	AS	X	
09	754020-SV-4-2182024	SV	A2188	6L	FC910	21/8/24	1055	-28	60	AS	21/9/24	0937	-3	60	AS	X	
10	754020-OA-1-2182024	A	A1863	6L	FC1077	21/8/24	1105	-30+	16	AS	21/9/24	0930	-2	18	AS	X	
Turnaround Time (Business Days)				Data Deliverable Information				Comments / Remarks									
☒ Standard - 15 Days ☐ 10 Day ☐ 5 Day ☐ 3 Day ☐ 2 Day ☐ 1 Day ☐ Other				All NJDEP TO-15 is Mandatory Full T1 Comm A Comm B Reduced T2 Full T1 Other: DQCP reporting				* CAT-B report requested *									
Approved By: _____ Date: _____								Sample inventory is verified upon receipt in the Laboratory									
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by Laboratory: 1				Received By: 2				Date Time: 2/19/24 1400				Received By: 2					
Relinquished by: 3				Received By: 3				Date Time: 2/20/25 16:37				Received By: 4					
Relinquished by: 5				Received By: 5				Custody Seal #									

Form: SM088-03D (revised 2-12-18)

Initial Assessment 4AEC
Label Verification<http://www.sgs.com/en/terms-and-conditions>

JE5976: Chain of Custody

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JE5976

AIR

AIR CHAIN OF CUSTODY

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SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

FED-EX Tracking #	Order Control # 02-522F-16
SGS Quote #	SGS Job # JE5976

[illegible]

Form:SM088-03D (revised 2-12-18)

<http://www.sqs.com/en/terms-and-conditions>

JE5976: Chain of Custody

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SGS

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JE5976

SGS Sample Receipt Summary

Job Number: je5976

Client: EA ENGINEERING

Project: SULPHUR SPRINGS ROAD, BINGHAMTON,

Date / Time Received: 2/20/2025 10:37:00 AM

Delivery Method: fedex

Airbill #'s:

Cooler Temps (Raw Measured) °C:

Cooler Temps (Corrected) °C:

Cooler Security

Y or N

1. Custody Seals Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐

3. COC Present: ☒ ☐
4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature

Y or N

1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: _____
3. Cooler media: _____
4. No. Coolers: _____

Quality Control Preservation

Y or N N/A

1. Trip Blank present / cooler: ☐ ☒ ☐
2. Trip Blank listed on COC: ☐ ☒ ☐
3. Samples preserved properly: ☒ ☐ ☐
4. VOCs headspace free: ☐ ☐ ☐

Sample Integrity - Documentation

Y or N

1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

Y or N

1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: _____ Intact

Sample Integrity - Instructions

Y or N N/A

1. Analysis requested is clear: ☒ ☐
2. Bottles received for unspecified tests: ☐ ☒
3. Sufficient volume recvd for analysis: ☒ ☐
4. Compositing instructions clear: ☐ ☐ ☒
5. Filtering instructions clear: ☐ ☐ ☒

Test Strip Lot #s:

pH 1-12: 231619

pH 12+: 203117A

Other: (Specify) _____

Comments

Sample -11 we received A864 but COC says A862.
All sample note collection date as 2025, please confirm

JE5976: Chain of Custody

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Responded to by: Kelly Ramos

Response Date: 2/26/2026

Sample -11: please proceed with A864, transcription error
All samples were collected 2025

5.1

5

JE5976: Chain of Custody

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Job Change Order: JE5976

Requested Date:	4/29/2025	Received Date:	2/20/2025
Account Name:	EA Engineering	Due Date:	4/29/2025
Project Description:	Sulphur Springs Road, Binghamton, NY	Deliverable:	NYASPB
C/O Initiated By:	SEAN_SWE PM: KR	TAT (Days):	7

=====

Sample #:	JE5976-2	Dept:	
Client ID:	754020-SV-1-2182025	TAT:	7
Change:	revise ID to 754020-SS-1-20250218		

=====

Sample #:	JE5976-4	Dept:	
Client ID:	754020-SV-2-2182025	TAT:	7
Change:	revise ID to 754020-SS-2-20250218		

=====

Sample #:	JE5976-7	Dept:	
Client ID:	754020-SV-3-2182025	TAT:	7
Change:	revise ID to 754020-SS-3-20250218		

=====

Sample #:	JE5976-9	Dept:	
Client ID:	754020-SV-4-2182025	TAT:	7
Change:	revise ID to 754020-CS-4-20250218		

Above Changes Per: Meghan Miller Date/Time: 4/29/2025

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.



Job Change Order: JE5976

Requested Date:	4/29/2025	Received Date:	2/20/2025
Account Name:	EA Engineering	Due Date:	4/29/2025
Project Description:	Sulphur Springs Road, Binghamton, NY	Deliverable:	NYASPB
C/O Initiated By:	SEAN_SWE PM: KR	TAT (Days):	7

=====

Sample #:	JE5976-13	Dept:	
Client ID:	754020-SV-5-2182025	TAT:	7
Change:	revise ID to 754020-SS-5-20250218		

=====

Sample #:	JE5976-14	Dept:	
Client ID:	754020-SV-6-2182025	TAT:	7
Change:	revise ID to 754020-SS-6-20250218		

Above Changes Per: Meghan Miller Date/Time: 4/29/2025

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

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Summa Canister and Flow Controller Log

Page 1 of 2

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Received: 02/20/25

SUMMA CANISTERS													
Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A633	6	30	02/09/25	BK	CP12986	5W56533.D	JE5976-1	02/24/25	TCH	3.5	.5		1
M223	6	30	02/09/25	BK	CP12976	7W12063.D	JE5976-2	02/24/25	TCH	4.5			1
A2191	6	30	02/09/25	BK	CP12976	7W12063.D	JE5976-3	02/24/25	TCH	4.5			1
A852	6	30	02/09/25	BK	CP12976	7W12063.D	JE5976-4	02/24/25	TCH	4.5			1
A1876	6	30	02/09/25	BK	CP12976	7W12063.D	JE5976-5	02/24/25	TCH	4			1
A2126	6	30	02/09/25	BK	CP12986	5W56533.D	JE5976-6	02/24/25	TCH	6.5			1
A1859	6	30	02/09/25	BK	CP12976	7W12063.D	JE5976-7	02/24/25	TCH	4			1
A1846	6	30	02/09/25	BK	CP12976	7W12063.D	JE5976-8	02/24/25	TCH	4.5			1
A2188	6	30	02/09/25	BK	CP12976	7W12063.D	JE5976-9	02/24/25	TCH	3.5			1
A1863	6	30	02/09/25	BK	CP12976	7W12063.D	JE5976-10	02/24/25	TCH				1
A864	6	30	02/09/25	BK	CP12986	5W56533.D	JE5976-11	02/24/25	TCH	5.5			1
A1114	6	30	02/09/25	BK	CP12988	5W56684.D	JE5976-12	02/24/25	TCH	5.5			1
A226	6	30	02/09/25	BK	CP12976	7W12063.D	JE5976-13	02/24/25	TCH	4.5			1
A1276	6	30	02/09/25	BK	CP12976	7W12063.D	JE5976-14	02/24/25	TCH	2.5			1
A2135	6	30	02/09/25	BK	CP12986	5W56533.D	JE5976-15	02/24/25	TCH	4			1

FLOW CONTROLLERS / OTHER										
Shipping					Receiving					
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min	Flow RPD	Equipment Type	
FC567	02/09/25	BK	10.4	8	02/21/25	JT	10.5	1	Flow Controller	
FC684	02/09/25	BK	10.3	8	03/03/25	JT	11.6	11.9	Flow Controller	
FC770	02/09/25	BK	10.3	8	02/21/25	JT	10.8	4.7	Flow Controller	
FC908	02/09/25	BK	3.4	24	02/21/25	JT	3.33	2.1	Flow Controller	
FC910	02/09/25	BK	3.5	24	02/21/25	JT	3.31	5.6	Flow Controller	
MC197	02/09/25	BK	3.16	24	02/21/25	JT	3	5.2	Flow Controller	
MC228	02/09/25	BK	10.5	8	02/21/25	JT	10.6	0.9	Flow Controller	
FC1010	02/09/25	BK	10.4	8	02/25/25	JH	10.9	4.7	Flow Controller	
FC1077	02/09/25	BK	3.5	24	02/21/25	JT	3.27	6.8	Flow Controller	
FC1091	02/09/25	BK	10.5	8	02/25/25	JH	11.3	7.3	Flow Controller	
FC1115	02/09/25	BK	3.4	24	02/21/25	JT	3.31	2.7	Flow Controller	
FC1119	02/09/25	BK	3.15	24	02/21/25	JT	3.29	4.3	Flow Controller	
FC1219	02/09/25	BK	3.5	24	02/21/25	JT	3.28	6.5	Flow Controller	
FC1244	02/09/25	BK	3.5	24	02/21/25	JT	3.16	10.2	Flow Controller	
FC1259	02/09/25	BK	10.4	8	02/21/25	JT	10.6	1.9	Flow Controller	

SGS Bottle Order(s):
 KR-02425-56

Prep Date **Room Temp(F)** **Bar Pres "Hg**

Summa Canister and Flow Controller Log

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Received: 02/20/25

FLOW CONTROLLERS / OTHER									
Shipping					Receiving				
Flow	Date		cc/	Time	Date		cc/	Flow	
Crtl ID	Out	By	min	hrs.	In	By	min	RPD	Equipment Type

02/09/25 70 29.92

5.2
5

Internal Sample Tracking Chronicle

EA Engineering

Job No: JE5976

Sulphur Springs Road, Binghamton, NY
Project No: 754020 PO#160253900/2.1.1

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE5976-1 754020-IA-1-2182025	Collected: 18-FEB-25 15:35	By: AS	Received: 20-FEB-25	By: EC		
JE5976-1	TO-15	03-MAR-25 18:51	TCH			VTO15STD
JE5976-2 754020-SS-1-20250218	Collected: 18-FEB-25 15:15	By: AS	Received: 20-FEB-25	By: EC		
JE5976-2	TO-15	06-MAR-25 18:03	WC			VTO15STD
JE5976-3 754020-IA-2-2182025	Collected: 18-FEB-25 16:52	By: AS	Received: 20-FEB-25	By: EC		
JE5976-3	TO-15	04-MAR-25 23:15	TCH			VTO15STD
JE5976-4 754020-SS-2-20250218	Collected: 18-FEB-25 17:27	By: AS	Received: 20-FEB-25	By: EC		
JE5976-4	TO-15	07-MAR-25 01:12	WC			VTO15STD
JE5976-5 754020-IA-3-2182025	Collected: 18-FEB-25 18:30	By: AS	Received: 20-FEB-25	By: EC		
JE5976-5	TO-15	05-MAR-25 01:06	TCH			VTO15STD
JE5976-5	TO-15	05-MAR-25 11:07	TCH			VTO15STD
JE5976-6 754020-DUP-1-2182025	Collected: 18-FEB-25 00:00	By: AS	Received: 20-FEB-25	By: EC		
JE5976-6	TO-15	05-MAR-25 02:00	TCH			VTO15STD
JE5976-6	TO-15	07-MAR-25 02:25	TCH			VTO15STD
JE5976-7 754020-SS-3-20250218	Collected: 18-FEB-25 18:35	By: AS	Received: 20-FEB-25	By: EC		
JE5976-7	TO-15	07-MAR-25 01:50	WC			VTO15STD
JE5976-8 754020-IA-4-2182025	Collected: 19-FEB-25 09:35	By: AS	Received: 20-FEB-25	By: EC		

Internal Sample Tracking Chronicle

EA Engineering

Job No: JE5976

Sulphur Springs Road, Binghamton, NY
Project No: 754020 PO#160253900/2.1.1

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE5976-8	TO-15	05-MAR-25 02:54	TCH			VTO15STD
JE5976-9	Collected: 19-FEB-25 09:37 By: AS		Received: 20-FEB-25		By: EC	
754020-CS-4-20250218						
JE5976-9	TO-15	07-MAR-25 02:29	WC			VTO15STD
JE5976-10	Collected: 19-FEB-25 09:30 By: AS		Received: 20-FEB-25		By: EC	
754020-OA-1-2182025						
JE5976-10	TO-15	07-MAR-25 03:13	WC			VTO15STD
JE5976-11	Collected: 19-FEB-25 09:16 By: AS		Received: 20-FEB-25		By: EC	
754020-IA-5-2182025						
JE5976-11	TO-15	05-MAR-25 03:48	TCH			VTO15STD
JE5976-12	Collected: 19-FEB-25 00:00 By: AS		Received: 20-FEB-25		By: EC	
754020-DUP-2-2182025						
JE5976-12	TO-15	05-MAR-25 04:40	TCH			VTO15STD
JE5976-13	Collected: 19-FEB-25 11:30 By: AS		Received: 20-FEB-25		By: EC	
754020-SS-5-20250218						
JE5976-13	TO-15	07-MAR-25 03:52	WC			VTO15STD
JE5976-14	Collected: 19-FEB-25 11:49 By: AS		Received: 20-FEB-25		By: EC	
754020-SS-6-20250218						
JE5976-14	TO-15	07-MAR-25 04:32	WC			VTO15STD
JE5976-15	Collected: 19-FEB-25 11:58 By: AS		Received: 20-FEB-25		By: EC	
754020-IA-6-2182025						
JE5976-15	TO-15	05-MAR-25 05:31	TCH			VTO15STD

SGS Internal Chain of Custody

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Received: 02/20/25

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JE5976-1.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-1.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-1.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-1.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-2.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-2.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-2.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-2.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-3.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-3.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-3.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-3.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-4.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-4.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-4.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-4.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-5.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-5.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-5.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-5.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-6.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-6.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-6.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-6.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-7.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-7.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-7.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-7.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-8.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-8.1	Dave Hunkele		04/09/25 04:00	Disposed

SGS Internal Chain of Custody

Page 2 of 3

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Received: 02/20/25

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JE5976-8.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-8.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-9.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-9.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-9.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-9.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-10.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-10.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-10.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-10.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-11.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-11.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-11.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-11.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-12.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-12.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-12.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-12.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-13.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-13.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-13.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-13.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-14.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-14.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-14.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-14.2	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-15.1	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage
JE5976-15.1	Dave Hunkele		04/09/25 04:00	Disposed
JE5976-15.2	Benny Liem	Secured Storage	02/20/25 15:13	Return to Storage

SGS Internal Chain of Custody

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY
Received: 02/20/25

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason

JE5976-15.2	Dave Hunkele		04/09/25 04:00	Disposed

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5

METHOD	REF	LOG INUM	DATE	RECALC	INSTRUME	PARM_STORED	PARM_SYN	MDLVALUE CURRENT	RDL	UNITS
TO-15	J057260		5/22/2024		GCM58W	120-82-1	1,2,4-Trichlorobenzene	0.121	0.2	ppbv
TO-15	J057260		5/22/2024		GCM58W	541-73-1	m-Dichlorobenzene	0.132	0.2	ppbv
TO-15	J057260		5/22/2024		GCM58W	91-20-3	Naphthalene	0.127	0.2	ppbv
TO-15	J057260		5/22/2024		GCM58W	127-18-4	Tetrachloroethylene	0.014	0.04	ppbv
TO-15	J057260		5/22/2024		GCM58W	79-01-6	Trichloroethylene	0.019	0.04	ppbv
TO-15	J057260		5/22/2024		GCM57W	630-20-6	1,1,1,2-Tetrachloroethane	0.042	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	71-55-6	1,1,1-Trichloroethane	0.078	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	79-34-5	1,1,2,2-Tetrachloroethane	0.048	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	79-00-5	1,1,2-Trichloroethane	0.038	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	75-34-3	1,1-Dichloroethane	0.057	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	75-35-4	1,1-Dichloroethylene	0.059	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	96-18-4	1,2,3-Trichloropropane	0.050	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	526-73-8	1,2,3-Trimethylbenzene	0.099	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	95-63-6	1,2,4-Trimethylbenzene	0.087	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	106-93-4	1,2-Dibromoethane (EDB)	0.030	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	107-06-2	1,2-Dichloroethane	0.070	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	78-87-5	1,2-Dichloropropane	0.062	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	108-67-8	1,3,5-Trimethylbenzene	0.080	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	106-99-0	1,3-Butadiene	0.084	0.5	ppbv
TO-15	J057260		5/22/2024		GCM57W	142-28-9	1,3-Dichloropropane	0.057	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	123-91-1	1,4-Dioxane	0.048	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	540-84-1	2,2,4-Trimethylpentane	0.040	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	565-59-3	2,3-Dimethylpentane	0.036	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	108-08-7	2,4-Dimethylpentane	0.048	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	95-49-8	2-Chlorotoluene	0.072	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	591-78-6	2-Hexanone	0.145	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	107-05-1	3-Chloropropene	0.083	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	622-96-8	4-Ethyltoluene	0.095	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	67-64-1	Acetone (2-Propanone)	0.145	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	75-05-8	Acetonitrile	0.171	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	107-02-8	Acrolein	0.088	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	107-13-1	Acrylonitrile	0.091	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	71-43-2	Benzene	0.047	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	100-44-7	Benzyl Chloride	0.125	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	108-86-1	Bromobenzene	0.055	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	75-27-4	Bromodichloromethane	0.030	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	593-60-2	Bromoethene	0.061	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	75-25-2	Bromoform	0.071	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	74-83-9	Bromomethane	0.069	0.5	ppbv
TO-15	J057260		5/22/2024		GCM57W	75-15-0	Carbon disulfide	0.045	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	56-23-5	Carbon tetrachloride	0.040	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	108-90-7	Chlorobenzene	0.074	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	75-45-6	Chlorodifluoromethane	0.106	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	75-00-3	Chloroethane	0.068	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	67-66-3	Chloroform	0.037	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	74-87-3	Chloromethane	0.090	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	79-38-9	Chlorotrifluoroethene	0.059	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	156-59-2	cis-1,2-Dichloroethylene	0.030	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	10061-01-5	cis-1,3-Dichloropropene	0.062	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	110-82-7	Cyclohexane	0.045	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	124-48-1	Dibromochloromethane	0.052	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	74-95-3	Dibromomethane	0.053	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	75-71-8	Dichlorodifluoromethane	0.104	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	75-43-4	Dichlorofluoromethane	0.066	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	108-20-3	Di-Isopropyl ether	0.082	0.2	ppbv
TO-15	J057260		5/22/2024		GCM57W	64-17-5	Ethanol	0.394	0.5	ppbv

TO-15	JD57260	5/22/2024	GCM57W	141-78-6	Ethyl Acetate	0.104	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	140-88-5	Ethyl Acrylate	0.105	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	100-41-4	Ethylbenzene	0.061	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	76-13-1	Freon 113	0.031	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	76-14-2	Freon 114	0.050	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	306-83-2	Freon 123	0.035	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	354-23-4	Freon 123A	0.082	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	75-68-3	Freon 142B	0.070	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	75-37-6	Freon 152A	0.060	0.5	ppbv
TO-15	JD57260	5/22/2024	GCM57W	142-82-5	Heptane	0.091	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	87-68-3	Hexachlorobutadiene	0.062	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM58W	67-72-1	Hexachloroethane	0.082	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	110-54-3	Hexane	0.052	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	74-88-4	Iodomethane	0.037	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	67-63-0	Isopropyl Alcohol	0.141	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	98-82-8	Isopropylbenzene	0.064	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	M,P-XYLENE	m,p-Xylene	0.139	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	78-93-3	Methyl ethyl ketone	0.110	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	108-10-1	Methyl Isobutyl Ketone	0.073	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	1634-04-4	Methyl Tert Butyl Ether	0.080	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	75-09-2	Methylene chloride	0.133	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	80-62-6	Methylmethacrylate	0.070	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	106-97-8	n-Butane	0.106	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	104-51-8	n-Butylbenzene	0.106	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	111-84-2	Nonane	0.100	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	103-65-1	n-Propylbenzene	0.091	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	111-65-9	Octane	0.120	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	95-50-1	o-Dichlorobenzene	0.069	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	95-47-6	o-Xylene	0.077	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	106-46-7	p-Dichlorobenzene	0.079	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	109-66-0	Pentane	0.138	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	99-87-6	p-Isopropyltoluene	0.080	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	115-07-1	Propylene	0.142	0.5	ppbv
TO-15	JD57260	5/22/2024	GCM57W	135-98-8	sec-Butylbenzene	0.081	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	100-42-5	Styrene	0.053	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	98-06-6	tert-Butylbenzene	0.083	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	75-65-0	Tertiary Butyl Alcohol	0.093	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	109-99-9	Tetrahydrofuran	0.090	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	108-88-3	Toluene	0.057	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	156-60-5	trans-1,2-Dichloroethylene	0.028	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	10061-02-6	trans-1,3-Dichloropropene	0.101	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	75-69-4	Trichlorofluoromethane	0.154	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	CAS EQUIV PENT	TVHC As Equiv Pentane	0.136	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	108-05-4	Vinyl Acetate	0.112	0.2	ppbv
TO-15	JD57260	5/22/2024	GCM57W	75-01-4	Vinyl chloride	0.069	0.2	ppbv

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Initial Calibration RT/ISTD Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2193-MB	5W57166.D	1	03/03/25	TCH	n/a	n/a	V5W2193

The QC reported here applies to the following samples:

Method: TO-15

JE5976-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.047	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.13	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JE5976**Account:** EAENYS EA Engineering**Project:** Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2193-MB	5W57166.D	1	03/03/25	TCH	n/a	n/a	V5W2193

The QC reported here applies to the following samples:**Method:** TO-15

JE5976-1

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.091	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.078	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2193-MB	5W57166.D	1	03/03/25	TCH	n/a	n/a	V5W2193

The QC reported here applies to the following samples: Method: TO-15

JE5976-1

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	104% 65-128%

Method Blank Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2194-MB	5W57179.D	1	03/04/25	TCH	n/a	n/a	V5W2194

The QC reported here applies to the following samples:

Method: TO-15

JE5976-3, JE5976-5, JE5976-6, JE5976-8, JE5976-11, JE5976-12, JE5976-15

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.047	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.13	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JE5976**Account:** EAENYS EA Engineering**Project:** Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2194-MB	5W57179.D	1	03/04/25	TCH	n/a	n/a	V5W2194

The QC reported here applies to the following samples:**Method:** TO-15

JE5976-3, JE5976-5, JE5976-6, JE5976-8, JE5976-11, JE5976-12, JE5976-15

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.091	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.078	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2194-MB	5W57179.D	1	03/04/25	TCH	n/a	n/a	V5W2194

The QC reported here applies to the following samples: Method: TO-15

JE5976-3, JE5976-5, JE5976-6, JE5976-8, JE5976-11, JE5976-12, JE5976-15

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	103% 65-128%

Method Blank Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W465-MB	7W13223.D	1	03/06/25	WC	n/a	n/a	V7W465

The QC reported here applies to the following samples:

Method: TO-15

JE5976-2, JE5976-4, JE5976-7, JE5976-9, JE5976-10, JE5976-13, JE5976-14

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.047	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.13	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W465-MB	7W13223.D	1	03/06/25	WC	n/a	n/a	V7W465

The QC reported here applies to the following samples:

Method: TO-15

JE5976-2, JE5976-4, JE5976-7, JE5976-9, JE5976-10, JE5976-13, JE5976-14

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.091	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.078	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W465-MB	7W13223.D	1	03/06/25	WC	n/a	n/a	V7W465

The QC reported here applies to the following samples: Method: TO-15

JE5976-2, JE5976-4, JE5976-7, JE5976-9, JE5976-10, JE5976-13, JE5976-14

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	86% 65-128%

Method Blank Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2196-MB	5W57226.D	1	03/06/25	TCH	n/a	n/a	V5W2196

The QC reported here applies to the following samples: Method: TO-15

JE5976-6

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	102% 65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W425-MB	7W11902.D	1	01/19/25	BK	n/a	n/a	V7W425

The QC reported here applies to the following samples:

Method: TO-15

V7W425-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.047	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.13	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JE5976**Account:** EAENYS EA Engineering**Project:** Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W425-MB	7W11902.D	1	01/19/25	BK	n/a	n/a	V7W425

The QC reported here applies to the following samples:**Method:** TO-15

V7W425-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.091	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.078	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W425-MB	7W11902.D	1	01/19/25	BK	n/a	n/a	V7W425

The QC reported here applies to the following samples: Method: TO-15

V7W425-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	99% 65-128%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.58	1.5	ppbv	J
	Total TIC, Volatile		0	ppbv	

Method Blank Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2165-MB	5W56528.D	1	01/30/25	TCH	n/a	n/a	V5W2165

The QC reported here applies to the following samples:

Method: TO-15

V5W2165-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.047	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.13	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JE5976**Account:** EAENYS EA Engineering**Project:** Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2165-MB	5W56528.D	1	01/30/25	TCH	n/a	n/a	V5W2165

The QC reported here applies to the following samples:**Method:** TO-15

V5W2165-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.091	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.078	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2165-MB	5W56528.D	1	01/30/25	TCH	n/a	n/a	V5W2165

The QC reported here applies to the following samples: Method: TO-15

V5W2165-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	115% 65-128%

Method Blank Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W437-MB	7W12293.D	1	01/31/25	WC	n/a	n/a	V7W437

The QC reported here applies to the following samples:

Method: TO-15

V7W437-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.047	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.13	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Method Blank Summary

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Job Number: JE5976**Account:** EAENYS EA Engineering**Project:** Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W437-MB	7W12293.D	1	01/31/25	WC	n/a	n/a	V7W437

The QC reported here applies to the following samples:**Method:** TO-15

V7W437-SCC

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.091	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.078	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Method Blank Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W437-MB	7W12293.D	1	01/31/25	WC	n/a	n/a	V7W437

The QC reported here applies to the following samples: Method: TO-15
V7W437-SCC

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	101% 65-128%

6.1.7
6

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2193-BS	5W57163.D	1	03/03/25	TCH	n/a	n/a	V5W2193
V5W2193-BSD	5W57164.D	1	03/03/25	TCH	n/a	n/a	V5W2193

The QC reported here applies to the following samples:

Method: TO-15

JE5976-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.3	13.1	127	13.1	127	0	70-130/30
106-99-0	1,3-Butadiene	10.8	13.3	123	13.3	123	0	70-130/30
71-43-2	Benzene	11	11.0	100	11.1	101	1	70-130/30
75-27-4	Bromodichloromethane	10.5	10.7	102	10.8	103	1	70-130/30
75-25-2	Bromoform	10.7	10.4	97	10.6	99	2	70-130/30
74-83-9	Bromomethane	10.5	12.0	114	12.0	114	0	70-130/30
593-60-2	Bromoethene	10.6	12.3	116	12.3	116	0	70-130/30
100-44-7	Benzyl Chloride	10.4	11.1	107	11.2	108	1	70-130/30
75-15-0	Carbon disulfide	10.6	10.9	103	10.8	102	1	70-130/30
108-90-7	Chlorobenzene	10.8	9.9	92	10.0	93	1	70-130/30
75-00-3	Chloroethane	10.4	11.9	114	12.0	115	1	70-130/30
67-66-3	Chloroform	10.8	11.0	102	11.0	102	0	70-130/30
74-87-3	Chloromethane	10.4	12.0	115	11.9	114	1	70-130/30
107-05-1	3-Chloropropene	10.5	10.8	103	10.7	102	1	70-130/30
95-49-8	2-Chlorotoluene	10.3	9.3	90	9.4	91	1	70-130/30
56-23-5	Carbon tetrachloride	10.8	10.4	96	10.5	97	1	70-130/30
110-82-7	Cyclohexane	10.9	10.8	99	10.9	100	1	70-130/30
75-34-3	1,1-Dichloroethane	10.7	10.9	102	11.0	103	1	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.4	97	10.4	97	0	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	10.5	95	10.6	96	1	70-130/30
107-06-2	1,2-Dichloroethane	10.9	11.1	102	11.1	102	0	70-130/30
78-87-5	1,2-Dichloropropane	10.5	10.6	101	10.5	100	1	70-130/30
123-91-1	1,4-Dioxane	10.5	11.4	109	11.5	110	1	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	11.1	105	11.2	106	1	70-130/30
124-48-1	Dibromochloromethane	10.5	9.8	93	9.9	94	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.5	10.3	98	10.3	98	0	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.7	10.5	98	10.5	98	0	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.7	11.1	104	11.1	104	0	70-130/30
541-73-1	m-Dichlorobenzene	10.4	9.5	91	9.6	92	1	70-130/30
95-50-1	o-Dichlorobenzene	10.7	9.1	85	9.1	85	0	70-130/30
106-46-7	p-Dichlorobenzene	10.9	9.1	83	9.1	83	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10.2	10.8	106	10.9	107	1	70-130/30
64-17-5	Ethanol	10.2	12.7	125	12.7	125	0	70-130/30
100-41-4	Ethylbenzene	11	10.4	95	10.5	95	1	70-130/30
141-78-6	Ethyl Acetate	10.8	13.0	120	12.6	117	3	70-130/30
622-96-8	4-Ethyltoluene	10.9	10.3	94	10.3	94	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 2 of 3

Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2193-BS	5W57163.D	1	03/03/25	TCH	n/a	n/a	V5W2193
V5W2193-BSD	5W57164.D	1	03/03/25	TCH	n/a	n/a	V5W2193

The QC reported here applies to the following samples:

Method: TO-15

JE5976-1

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	10.0	94	10.1	95	1	70-130/30
76-14-2	Freon 114	11	13.0	118	13.1	119	1	70-130/30
142-82-5	Heptane	11	10.9	99	10.8	98	1	70-130/30
87-68-3	Hexachlorobutadiene	10.8	10.2	94	10.5	97	3	70-130/30
110-54-3	Hexane	10.8	10.6	98	10.5	97	1	70-130/30
591-78-6	2-Hexanone	10.6	12.6	119	12.5	118	1	70-130/30
67-63-0	Isopropyl Alcohol	10.6	12.1	114	12.3	116	2	70-130/30
75-09-2	Methylene chloride	10.5	10.2	97	10.2	97	0	70-130/30
78-93-3	Methyl ethyl ketone	10.8	13.0	120	13.0	120	0	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.8	12.1	112	12.1	112	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.8	10.2	94	10.2	94	0	70-130/30
80-62-6	Methylmethacrylate	10.9	12.3	113	12.4	114	1	70-130/30
115-07-1	Propylene	10.9	9.3	85	9.1	83	2	70-130/30
100-42-5	Styrene	11	10.4	95	10.4	95	0	70-130/30
71-55-6	1,1,1-Trichloroethane	10.8	10.7	99	10.8	100	1	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10.9	11.0	101	11.0	101	0	70-130/30
79-00-5	1,1,2-Trichloroethane	10.7	11.0	103	11.1	104	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10.9	10.0	92	10.4	95	4	70-130/30
95-63-6	1,2,4-Trimethylbenzene	11	10.4	95	10.5	95	1	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.9	9.6	88	9.7	89	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.8	11.1	103	11.1	103	0	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.9	10.2	103	10.1	102	1	70-130/30
127-18-4	Tetrachloroethylene	10.9	9.8	90	10	92	2	70-130/30
109-99-9	Tetrahydrofuran	10.5	12.6	120	12.6	120	0	70-130/30
108-88-3	Toluene	10.6	10.6	100	10.6	100	0	70-130/30
79-01-6	Trichloroethylene	10.5	10.4	99	10.4	99	0	70-130/30
75-69-4	Trichlorofluoromethane	10.6	12.5	118	12.5	118	0	70-130/30
75-01-4	Vinyl chloride	10.3	12.5	121	12.5	121	0	70-130/30
108-05-4	Vinyl Acetate	10.4	11.9	114	12.2	117	2	70-130/30
	m,p-Xylene	21.4	19.8	93	19.8	93	0	70-130/30
95-47-6	o-Xylene	10.9	10.2	94	10.3	94	1	70-130/30
1330-20-7	Xylenes (total)	32.3	30.0	93	30.1	93	0	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2193-BS	5W57163.D	1	03/03/25	TCH	n/a	n/a	V5W2193
V5W2193-BSD	5W57164.D	1	03/03/25	TCH	n/a	n/a	V5W2193

The QC reported here applies to the following samples: Method: TO-15

JE5976-1

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	98%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2194-BS	5W57176.D	1	03/04/25	TCH	n/a	n/a	V5W2194
V5W2194-BSD	5W57177.D	1	03/04/25	TCH	n/a	n/a	V5W2194

The QC reported here applies to the following samples:

Method: TO-15

JE5976-3, JE5976-5, JE5976-6, JE5976-8, JE5976-11, JE5976-12, JE5976-15

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.3	12.8	124	12.7	123	1	70-130/30
106-99-0	1,3-Butadiene	10.8	13.6	126	13.6	126	0	70-130/30
71-43-2	Benzene	11	10.7	97	10.8	98	1	70-130/30
75-27-4	Bromodichloromethane	10.5	10.3	98	10.5	100	2	70-130/30
75-25-2	Bromoform	10.7	10.3	96	10.5	98	2	70-130/30
74-83-9	Bromomethane	10.5	12.1	115	12.1	115	0	70-130/30
593-60-2	Bromoethene	10.6	12.4	117	12.5	118	1	70-130/30
100-44-7	Benzyl Chloride	10.4	10.3	99	10.4	100	1	70-130/30
75-15-0	Carbon disulfide	10.6	10.7	101	10.9	103	2	70-130/30
108-90-7	Chlorobenzene	10.8	9.6	89	9.7	90	1	70-130/30
75-00-3	Chloroethane	10.4	12.0	115	12.2	117	2	70-130/30
67-66-3	Chloroform	10.8	10.7	99	10.8	100	1	70-130/30
74-87-3	Chloromethane	10.4	12.0	115	12.1	116	1	70-130/30
107-05-1	3-Chloropropene	10.5	10.4	99	10.5	100	1	70-130/30
95-49-8	2-Chlorotoluene	10.3	8.8	85	9.0	87	2	70-130/30
56-23-5	Carbon tetrachloride	10.8	9.9	92	10.2	94	3	70-130/30
110-82-7	Cyclohexane	10.9	10.4	95	10.6	97	2	70-130/30
75-34-3	1,1-Dichloroethane	10.7	10.8	101	11.0	103	2	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.2	95	10.3	96	1	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	10	91	10.2	93	2	70-130/30
107-06-2	1,2-Dichloroethane	10.9	10.8	99	10.9	100	1	70-130/30
78-87-5	1,2-Dichloropropane	10.5	10.4	99	10.5	100	1	70-130/30
123-91-1	1,4-Dioxane	10.5	11.1	106	11.0	105	1	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	11.2	106	11.3	107	1	70-130/30
124-48-1	Dibromochloromethane	10.5	9.3	89	9.6	91	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.5	9.9	94	10.1	96	2	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.7	10.2	95	10.3	96	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.7	10.7	100	10.8	101	1	70-130/30
541-73-1	m-Dichlorobenzene	10.4	9.1	88	9.2	88	1	70-130/30
95-50-1	o-Dichlorobenzene	10.7	8.7	81	8.6	80	1	70-130/30
106-46-7	p-Dichlorobenzene	10.9	8.7	80	8.7	80	0	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10.2	10.4	102	10.6	104	2	70-130/30
64-17-5	Ethanol	10.2	13.0	127	13.0	127	0	70-130/30
100-41-4	Ethylbenzene	11	10	91	10.1	92	1	70-130/30
141-78-6	Ethyl Acetate	10.8	13.2	122	13.3	123	1	70-130/30
622-96-8	4-Ethyltoluene	10.9	9.7	89	9.8	90	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 2 of 3

Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2194-BS	5W57176.D	1	03/04/25	TCH	n/a	n/a	V5W2194
V5W2194-BSD	5W57177.D	1	03/04/25	TCH	n/a	n/a	V5W2194

The QC reported here applies to the following samples:

Method: TO-15

JE5976-3, JE5976-5, JE5976-6, JE5976-8, JE5976-11, JE5976-12, JE5976-15

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	9.6	91	9.7	92	1	70-130/30
76-14-2	Freon 114	11	13.1	119	13.2	120	1	70-130/30
142-82-5	Heptane	11	10.7	97	10.8	98	1	70-130/30
87-68-3	Hexachlorobutadiene	10.8	10	93	9.8	91	2	70-130/30
110-54-3	Hexane	10.8	10.8	100	10.9	101	1	70-130/30
591-78-6	2-Hexanone	10.6	12.6	119	12.5	118	1	70-130/30
67-63-0	Isopropyl Alcohol	10.6	11.9	112	11.9	112	0	70-130/30
75-09-2	Methylene chloride	10.5	10.2	97	10.4	99	2	70-130/30
78-93-3	Methyl ethyl ketone	10.8	12.8	119	12.9	119	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.8	12.1	112	12.1	112	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.8	9.9	92	10	93	1	70-130/30
80-62-6	Methylmethacrylate	10.9	12.1	111	12.2	112	1	70-130/30
115-07-1	Propylene	10.9	9.6	88	9.7	89	1	70-130/30
100-42-5	Styrene	11	9.9	90	10	91	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10.8	10.3	95	10.3	95	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10.9	10.5	96	10.6	97	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.7	10.7	100	10.8	101	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10.9	10.1	93	9.8	90	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	11	10.0	91	10.0	91	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.9	9.2	84	9.3	85	1	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.8	11.0	102	11.1	103	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.9	10.1	102	10.1	102	0	70-130/30
127-18-4	Tetrachloroethylene	10.9	9.2	84	9.2	84	0	70-130/30
109-99-9	Tetrahydrofuran	10.5	12.3	117	12.4	118	1	70-130/30
108-88-3	Toluene	10.6	10.2	96	10.4	98	2	70-130/30
79-01-6	Trichloroethylene	10.5	10.1	96	10.3	98	2	70-130/30
75-69-4	Trichlorofluoromethane	10.6	12.6	119	12.7	120	1	70-130/30
75-01-4	Vinyl chloride	10.3	12.6	122	12.9	125	2	70-130/30
108-05-4	Vinyl Acetate	10.4	11.6	112	11.8	113	2	70-130/30
	m,p-Xylene	21.4	18.9	88	19.2	90	2	70-130/30
95-47-6	o-Xylene	10.9	9.7	89	9.9	91	2	70-130/30
1330-20-7	Xylenes (total)	32.3	28.6	89	29.1	90	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2194-BS	5W57176.D	1	03/04/25	TCH	n/a	n/a	V5W2194
V5W2194-BSD	5W57177.D	1	03/04/25	TCH	n/a	n/a	V5W2194

The QC reported here applies to the following samples: Method: TO-15

JE5976-3, JE5976-5, JE5976-6, JE5976-8, JE5976-11, JE5976-12, JE5976-15

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	97%	98%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W465-BS	7W13220.D	1	03/06/25	WC	n/a	n/a	V7W465
V7W465-BSD	7W13221.D	1	03/06/25	WC	n/a	n/a	V7W465

The QC reported here applies to the following samples:

Method: TO-15

JE5976-2, JE5976-4, JE5976-7, JE5976-9, JE5976-10, JE5976-13, JE5976-14

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.3	8.1	79	8.3	81	2	70-130/30
106-99-0	1,3-Butadiene	10.8	9.6	89	9.8	91	2	70-130/30
71-43-2	Benzene	11	10.7	97	10.9	99	2	70-130/30
75-27-4	Bromodichloromethane	10.5	10.6	101	10.8	103	2	70-130/30
75-25-2	Bromoform	10.7	13.2	123	13.2	123	0	70-130/30
74-83-9	Bromomethane	10.5	10.4	99	10.6	101	2	70-130/30
593-60-2	Bromoethene	10.6	10.4	98	10.7	101	3	70-130/30
100-44-7	Benzyl Chloride	10.4	8.7	84	8.8	85	1	70-130/30
75-15-0	Carbon disulfide	10.6	10	94	10.2	96	2	70-130/30
108-90-7	Chlorobenzene	10.8	11.8	109	12.1	112	3	70-130/30
75-00-3	Chloroethane	10.4	10.2	98	10.4	100	2	70-130/30
67-66-3	Chloroform	10.8	10.2	94	10.4	96	2	70-130/30
74-87-3	Chloromethane	10.4	9.1	88	9.6	92	5	70-130/30
107-05-1	3-Chloropropene	10.5	9.1	87	9.2	88	1	70-130/30
95-49-8	2-Chlorotoluene	10.3	11.5	112	11.8	115	3	70-130/30
56-23-5	Carbon tetrachloride	10.8	10.3	95	10.5	97	2	70-130/30
110-82-7	Cyclohexane	10.9	11.5	106	11.6	106	1	70-130/30
75-34-3	1,1-Dichloroethane	10.7	10.6	99	10.8	101	2	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	9.9	93	10.2	95	3	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.9	108	12.1	110	2	70-130/30
107-06-2	1,2-Dichloroethane	10.9	9.5	87	9.6	88	1	70-130/30
78-87-5	1,2-Dichloropropane	10.5	11.3	108	11.4	109	1	70-130/30
123-91-1	1,4-Dioxane	10.5	10.9	104	11.1	106	2	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	9.8	92	10	94	2	70-130/30
124-48-1	Dibromochloromethane	10.5	11.4	109	11.7	111	3	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.5	10.4	99	10.5	100	1	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.7	11.0	103	11.1	104	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.7	10.5	98	10.7	100	2	70-130/30
541-73-1	m-Dichlorobenzene	10.4	11.7	113	11.9	114	2	70-130/30
95-50-1	o-Dichlorobenzene	10.7	11.8	110	11.9	111	1	70-130/30
106-46-7	p-Dichlorobenzene	10.9	12.2	112	12.4	114	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10.2	9.4	92	9.7	95	3	70-130/30
64-17-5	Ethanol	10.2	8.3	81	8.5	83	2	70-130/30
100-41-4	Ethylbenzene	11	10.8	98	11.0	100	2	70-130/30
141-78-6	Ethyl Acetate	10.8	11.0	102	11.3	105	3	70-130/30
622-96-8	4-Ethyltoluene	10.9	11.4	105	11.6	106	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 2 of 3

Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W465-BS	7W13220.D	1	03/06/25	WC	n/a	n/a	V7W465
V7W465-BSD	7W13221.D	1	03/06/25	WC	n/a	n/a	V7W465

The QC reported here applies to the following samples:

Method: TO-15

JE5976-2, JE5976-4, JE5976-7, JE5976-9, JE5976-10, JE5976-13, JE5976-14

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.1	105	11.3	107	2	70-130/30
76-14-2	Freon 114	11	10.5	95	10.6	96	1	70-130/30
142-82-5	Heptane	11	11.3	103	11.5	105	2	70-130/30
87-68-3	Hexachlorobutadiene	10.8	12.5	116	12.9	119	3	70-130/30
110-54-3	Hexane	10.8	10.4	96	10.5	97	1	70-130/30
591-78-6	2-Hexanone	10.6	9.6	91	9.8	92	2	70-130/30
67-63-0	Isopropyl Alcohol	10.6	8.8	83	9.0	85	2	70-130/30
75-09-2	Methylene chloride	10.5	9.4	90	9.6	91	2	70-130/30
78-93-3	Methyl ethyl ketone	10.8	10.6	98	10.8	100	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.8	10.9	101	11.1	103	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.8	9.3	86	9.6	89	3	70-130/30
80-62-6	Methylmethacrylate	10.9	10.4	95	10.7	98	3	70-130/30
115-07-1	Propylene	10.9	10.5	96	10.6	97	1	70-130/30
100-42-5	Styrene	11	12.1	110	12.2	111	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10.8	9.7	90	9.9	92	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10.9	11.9	109	12.1	111	2	70-130/30
79-00-5	1,1,2-Trichloroethane	10.7	11.3	106	11.5	107	2	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10.9	12.1	111	12.5	115	3	70-130/30
95-63-6	1,2,4-Trimethylbenzene	11	11.3	103	11.5	105	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.9	11.2	103	11.4	105	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.8	11.6	107	11.8	109	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.9	7.7	78	7.9	80	3	70-130/30
127-18-4	Tetrachloroethylene	10.9	11.8	108	12.1	111	3	70-130/30
109-99-9	Tetrahydrofuran	10.5	10.9	104	11.2	107	3	70-130/30
108-88-3	Toluene	10.6	10.7	101	10.9	103	2	70-130/30
79-01-6	Trichloroethylene	10.5	10.9	104	11.2	107	3	70-130/30
75-69-4	Trichlorofluoromethane	10.6	9.4	89	9.6	91	2	70-130/30
75-01-4	Vinyl chloride	10.3	10.5	102	10.7	104	2	70-130/30
108-05-4	Vinyl Acetate	10.4	9.7	93	10	96	3	70-130/30
	m,p-Xylene	21.4	21.3	100	21.7	101	2	70-130/30
95-47-6	o-Xylene	10.9	10.8	99	11.0	101	2	70-130/30
1330-20-7	Xylenes (total)	32.3	32.1	99	32.6	101	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W465-BS	7W13220.D	1	03/06/25	WC	n/a	n/a	V7W465
V7W465-BSD	7W13221.D	1	03/06/25	WC	n/a	n/a	V7W465

The QC reported here applies to the following samples: Method: TO-15

JE5976-2, JE5976-4, JE5976-7, JE5976-9, JE5976-10, JE5976-13, JE5976-14

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	101%	100%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2196-BS	5W57223.D	1	03/06/25	TCH	n/a	n/a	V5W2196
V5W2196-BSD	5W57224.D	1	03/06/25	TCH	n/a	n/a	V5W2196

The QC reported here applies to the following samples: Method: TO-15

JE5976-6

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.3	12.1	117	11.7	114	3	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	98%	98%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JE5976**Account:** EAENYS EA Engineering**Project:** Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W425-BS	7W11899.D	1	01/19/25	BK	n/a	n/a	V7W425
V7W425-BSD	7W11900.D	1	01/19/25	BK	n/a	n/a	V7W425

The QC reported here applies to the following samples:**Method:** TO-15

V7W425-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.3	8.5	83	8.6	83	1	70-130/30
106-99-0	1,3-Butadiene	10.8	11.6	107	11.4	106	2	70-130/30
71-43-2	Benzene	11	11.7	106	11.8	107	1	70-130/30
75-27-4	Bromodichloromethane	10.5	11.7	111	11.9	113	2	70-130/30
75-25-2	Bromoform	10.7	10.9	102	11.1	104	2	70-130/30
74-83-9	Bromomethane	10.5	12.4	118	12.4	118	0	70-130/30
593-60-2	Bromoethene	10.6	11.5	108	11.6	109	1	70-130/30
100-44-7	Benzyl Chloride	10.4	9.1	88	9.2	88	1	70-130/30
75-15-0	Carbon disulfide	10.6	13.5	127	13.6	128	1	70-130/30
108-90-7	Chlorobenzene	10.8	11.4	106	11.6	107	2	70-130/30
75-00-3	Chloroethane	10.4	12.1	116	12.8	123	6	70-130/30
67-66-3	Chloroform	10.8	12.0	111	12.2	113	2	70-130/30
74-87-3	Chloromethane	10.4	11.2	108	11.4	110	2	70-130/30
107-05-1	3-Chloropropene	10.5	12.2	116	12.3	117	1	70-130/30
95-49-8	2-Chlorotoluene	10.3	10.7	104	10.9	106	2	70-130/30
56-23-5	Carbon tetrachloride	10.8	11.0	102	10.9	101	1	70-130/30
110-82-7	Cyclohexane	10.9	11.7	107	11.8	108	1	70-130/30
75-34-3	1,1-Dichloroethane	10.7	11.5	107	11.5	107	0	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	11.2	105	11.4	107	2	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.6	105	11.8	107	2	70-130/30
107-06-2	1,2-Dichloroethane	10.9	12.0	110	12.1	111	1	70-130/30
78-87-5	1,2-Dichloropropane	10.5	11.3	108	11.4	109	1	70-130/30
123-91-1	1,4-Dioxane	10.5	10.6	101	10.7	102	1	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	13.0	123	12.9	122	1	70-130/30
124-48-1	Dibromochloromethane	10.5	10.7	102	10.8	103	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.5	11.8	112	11.3	108	4	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.7	11.3	106	11.5	107	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.7	11.4	107	11.6	108	2	70-130/30
541-73-1	m-Dichlorobenzene	10.4	11.0	106	11.1	107	1	70-130/30
95-50-1	o-Dichlorobenzene	10.7	11.3	106	11.5	107	2	70-130/30
106-46-7	p-Dichlorobenzene	10.9	11.5	106	11.7	107	2	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10.2	10.4	102	10.6	104	2	70-130/30
64-17-5	Ethanol	10.2	9.1	89	10.1	99	10	70-130/30
100-41-4	Ethylbenzene	11	11.2	102	11.4	104	2	70-130/30
141-78-6	Ethyl Acetate	10.8	11.7	108	11.7	108	0	70-130/30
622-96-8	4-Ethyltoluene	10.9	11.7	107	11.9	109	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W425-BS	7W11899.D	1	01/19/25	BK	n/a	n/a	V7W425
V7W425-BSD	7W11900.D	1	01/19/25	BK	n/a	n/a	V7W425

The QC reported here applies to the following samples:

Method: TO-15

V7W425-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.8	111	11.7	110	1	70-130/30
76-14-2	Freon 114	11	13.9	126	14.0	127	1	70-130/30
142-82-5	Heptane	11	10.7	97	10.8	98	1	70-130/30
87-68-3	Hexachlorobutadiene	10.8	13.4	124	13.6	126	1	70-130/30
110-54-3	Hexane	10.8	10.7	99	10.8	100	1	70-130/30
591-78-6	2-Hexanone	10.6	9.6	91	9.8	92	2	70-130/30
67-63-0	Isopropyl Alcohol	10.6	9.7	92	9.6	91	1	70-130/30
75-09-2	Methylene chloride	10.5	11.5	110	11.5	110	0	70-130/30
78-93-3	Methyl ethyl ketone	10.8	11.7	108	11.8	109	1	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.8	10.9	101	10.9	101	0	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.8	10.9	101	11.0	102	1	70-130/30
80-62-6	Methylmethacrylate	10.9	10.9	100	11.0	101	1	70-130/30
115-07-1	Propylene	10.9	8.9	82	9.0	83	1	70-130/30
100-42-5	Styrene	11	11.9	108	12.0	109	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10.8	11.1	103	11.1	103	0	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10.9	12.8	117	12.9	118	1	70-130/30
79-00-5	1,1,2-Trichloroethane	10.7	11.8	110	11.8	110	0	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10.9	13.1	120	13.1	120	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	11	12.3	112	12.5	114	2	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.9	11.7	107	11.9	109	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.8	11.3	105	11.4	106	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.9	10.2	103	10.3	104	1	70-130/30
127-18-4	Tetrachloroethylene	10.9	10.9	100	11.0	101	1	70-130/30
109-99-9	Tetrahydrofuran	10.5	12.2	116	12.3	117	1	70-130/30
108-88-3	Toluene	10.6	10.9	103	10.9	103	0	70-130/30
79-01-6	Trichloroethylene	10.5	11.3	108	11.4	109	1	70-130/30
75-69-4	Trichlorofluoromethane	10.6	12.1	114	12.0	113	1	70-130/30
75-01-4	Vinyl chloride	10.3	13.2	128	12.9	125	2	70-130/30
108-05-4	Vinyl Acetate	10.4	10.3	99	10.3	99	0	70-130/30
	m,p-Xylene	21.4	22.5	105	22.9	107	2	70-130/30
95-47-6	o-Xylene	10.9	11.5	106	11.7	107	2	70-130/30
1330-20-7	Xylenes (total)	32.3	34.0	105	34.6	107	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W425-BS	7W11899.D	1	01/19/25	BK	n/a	n/a	V7W425
V7W425-BSD	7W11900.D	1	01/19/25	BK	n/a	n/a	V7W425

The QC reported here applies to the following samples: Method: TO-15

V7W425-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	107%	107%	65-128%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2165-BS	5W56524.D	1	01/30/25	TCH	n/a	n/a	V5W2165
V5W2165-BSD	5W56525.D	1	01/30/25	TCH	n/a	n/a	V5W2165

The QC reported here applies to the following samples:

Method: TO-15

V5W2165-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.3	8.8	85	8.2	80	7	70-130/30
106-99-0	1,3-Butadiene	10.8	10.3	95	9.4	87	9	70-130/30
71-43-2	Benzene	11	10.2	93	9.9	90	3	70-130/30
75-27-4	Bromodichloromethane	10.5	10.1	96	9.9	94	2	70-130/30
75-25-2	Bromoform	10.7	15.2	142* a	14.7	137* a	3	70-130/30
74-83-9	Bromomethane	10.5	8.9	85	8.3	79	7	70-130/30
593-60-2	Bromoethene	10.6	9.5	90	8.7	82	9	70-130/30
100-44-7	Benzyl Chloride	10.4	12.7	122	12.4	119	2	70-130/30
75-15-0	Carbon disulfide	10.6	10.3	97	9.9	93	4	70-130/30
108-90-7	Chlorobenzene	10.8	12.0	111	11.5	106	4	70-130/30
75-00-3	Chloroethane	10.4	8.6	83	7.9	76	8	70-130/30
67-66-3	Chloroform	10.8	10.3	95	9.9	92	4	70-130/30
74-87-3	Chloromethane	10.4	10.2	98	9.4	90	8	70-130/30
107-05-1	3-Chloropropene	10.5	10.9	104	10.5	100	4	70-130/30
95-49-8	2-Chlorotoluene	10.3	13.0	126	12.7	123	2	70-130/30
56-23-5	Carbon tetrachloride	10.8	11.9	110	11.6	107	3	70-130/30
110-82-7	Cyclohexane	10.9	10.5	96	10.4	95	1	70-130/30
75-34-3	1,1-Dichloroethane	10.7	10.7	100	10.4	97	3	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.8	101	10.4	97	4	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	13.2	120	12.8	116	3	70-130/30
107-06-2	1,2-Dichloroethane	10.9	11.3	104	11.1	102	2	70-130/30
78-87-5	1,2-Dichloropropane	10.5	10.1	96	9.8	93	3	70-130/30
123-91-1	1,4-Dioxane	10.5	10.8	103	10.5	100	3	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	11.6	109	10.5	99	10	70-130/30
124-48-1	Dibromochloromethane	10.5	13.0	124	12.7	121	2	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.5	10.6	101	10.3	98	3	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.7	10.3	96	10.1	94	2	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.7	11.2	105	11.1	104	1	70-130/30
541-73-1	m-Dichlorobenzene	10.4	13.2	127	12.8	123	3	70-130/30
95-50-1	o-Dichlorobenzene	10.7	13.4	125	13.1	122	2	70-130/30
106-46-7	p-Dichlorobenzene	10.9	13.9	128	13.5	124	3	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10.2	10.6	104	10.3	101	3	70-130/30
64-17-5	Ethanol	10.2	10.1	99	9.2	90	9	70-130/30
100-41-4	Ethylbenzene	11	13.0	118	12.7	115	2	70-130/30
141-78-6	Ethyl Acetate	10.8	11.6	107	11.2	104	4	70-130/30
622-96-8	4-Ethyltoluene	10.9	13.9	128	13.6	125	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2165-BS	5W56524.D	1	01/30/25	TCH	n/a	n/a	V5W2165
V5W2165-BSD	5W56525.D	1	01/30/25	TCH	n/a	n/a	V5W2165

The QC reported here applies to the following samples:

Method: TO-15

V5W2165-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	11.9	112	11.5	108	3	70-130/30
76-14-2	Freon 114	11	10.5	95	9.5	86	10	70-130/30
142-82-5	Heptane	11	13.1	119	12.6	115	4	70-130/30
87-68-3	Hexachlorobutadiene	10.8	15.6	144* a	15.4	143* a	1	70-130/30
110-54-3	Hexane	10.8	11.4	106	11.0	102	4	70-130/30
591-78-6	2-Hexanone	10.6	13.8	130	13.5	127	2	70-130/30
67-63-0	Isopropyl Alcohol	10.6	14.6	138* a	12.5	118	15	70-130/30
75-09-2	Methylene chloride	10.5	9.6	91	9.0	86	6	70-130/30
78-93-3	Methyl ethyl ketone	10.8	11.5	106	11.2	104	3	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.8	11.9	110	11.7	108	2	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.8	10.7	99	10.4	96	3	70-130/30
80-62-6	Methylmethacrylate	10.9	11.3	104	11.0	101	3	70-130/30
115-07-1	Propylene	10.9	13.0	119	12.0	110	8	70-130/30
100-42-5	Styrene	11	14.0	127	13.6	124	3	70-130/30
71-55-6	1,1,1-Trichloroethane	10.8	11.0	102	10.7	99	3	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10.9	11.8	108	11.4	105	3	70-130/30
79-00-5	1,1,2-Trichloroethane	10.7	10.2	95	10.1	94	1	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10.9	15.3	140* a	15.3	140* a	0	70-130/30
95-63-6	1,2,4-Trimethylbenzene	11	14.0	127	13.4	122	4	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.9	14.0	128	13.7	126	2	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.8	11.6	107	11.4	106	2	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.9	11.3	114	10.8	109	5	70-130/30
127-18-4	Tetrachloroethylene	10.9	13.3	122	12.9	118	3	70-130/30
109-99-9	Tetrahydrofuran	10.5	11.0	105	10.8	103	2	70-130/30
108-88-3	Toluene	10.6	10.9	103	10.7	101	2	70-130/30
79-01-6	Trichloroethylene	10.5	10.6	101	10.1	96	5	70-130/30
75-69-4	Trichlorofluoromethane	10.6	12.0	113	11.2	106	7	70-130/30
75-01-4	Vinyl chloride	10.3	9.4	91	8.5	83	10	70-130/30
108-05-4	Vinyl Acetate	10.4	12.4	119	11.5	111	8	70-130/30
	m,p-Xylene	21.4	26.6	124	25.8	121	3	70-130/30
95-47-6	o-Xylene	10.9	13.7	126	13.3	122	3	70-130/30
1330-20-7	Xylenes (total)	32.3	40.3	125	39.1	121	3	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2165-BS	5W56524.D	1	01/30/25	TCH	n/a	n/a	V5W2165
V5W2165-BSD	5W56525.D	1	01/30/25	TCH	n/a	n/a	V5W2165

The QC reported here applies to the following samples: Method: TO-15

V5W2165-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	112%	111%	65-128%

(a) Outside control limits. This compound is not reported in associated samples.

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 3

Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W437-BS	7W12290.D	1	01/31/25	WC	n/a	n/a	V7W437
V7W437-BSD	7W12291.D	1	01/31/25	WC	n/a	n/a	V7W437

The QC reported here applies to the following samples:

Method: TO-15

V7W437-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
67-64-1	Acetone (2-Propanone)	10.3	7.7	75	7.7	75	0	70-130/30
106-99-0	1,3-Butadiene	10.8	9.3	86	9.2	85	1	70-130/30
71-43-2	Benzene	11	11.0	100	11.2	102	2	70-130/30
75-27-4	Bromodichloromethane	10.5	11.5	110	11.6	110	1	70-130/30
75-25-2	Bromoform	10.7	12.0	112	12.0	112	0	70-130/30
74-83-9	Bromomethane	10.5	11.5	110	11.6	110	1	70-130/30
593-60-2	Bromoethene	10.6	11.3	107	11.2	106	1	70-130/30
100-44-7	Benzyl Chloride	10.4	9.3	89	9.3	89	0	70-130/30
75-15-0	Carbon disulfide	10.6	12.5	118	12.4	117	1	70-130/30
108-90-7	Chlorobenzene	10.8	11.2	104	11.3	105	1	70-130/30
75-00-3	Chloroethane	10.4	10.8	104	10.7	103	1	70-130/30
67-66-3	Chloroform	10.8	11.7	108	11.8	109	1	70-130/30
74-87-3	Chloromethane	10.4	9.1	88	9.2	88	1	70-130/30
107-05-1	3-Chloropropene	10.5	11.3	108	11.3	108	0	70-130/30
95-49-8	2-Chlorotoluene	10.3	10.7	104	10.7	104	0	70-130/30
56-23-5	Carbon tetrachloride	10.8	11.2	104	11.3	105	1	70-130/30
110-82-7	Cyclohexane	10.9	11.0	101	11.1	102	1	70-130/30
75-34-3	1,1-Dichloroethane	10.7	10.4	97	10.6	99	2	70-130/30
75-35-4	1,1-Dichloroethylene	10.7	10.9	102	10.9	102	0	70-130/30
106-93-4	1,2-Dibromoethane (EDB)	11	11.6	105	11.7	106	1	70-130/30
107-06-2	1,2-Dichloroethane	10.9	11.2	103	11.3	104	1	70-130/30
78-87-5	1,2-Dichloropropane	10.5	10.2	97	10.2	97	0	70-130/30
123-91-1	1,4-Dioxane	10.5	10.2	97	10.3	98	1	70-130/30
75-71-8	Dichlorodifluoromethane	10.6	11.9	112	11.9	112	0	70-130/30
124-48-1	Dibromochloromethane	10.5	11.0	105	11.1	106	1	70-130/30
156-60-5	trans-1,2-Dichloroethylene	10.5	11.1	106	10.6	101	5	70-130/30
156-59-2	cis-1,2-Dichloroethylene	10.7	10.9	102	11.0	103	1	70-130/30
10061-01-5	cis-1,3-Dichloropropene	10.7	10.9	102	11.0	103	1	70-130/30
541-73-1	m-Dichlorobenzene	10.4	11.8	113	11.9	114	1	70-130/30
95-50-1	o-Dichlorobenzene	10.7	12.2	114	12.2	114	0	70-130/30
106-46-7	p-Dichlorobenzene	10.9	12.3	113	12.4	114	1	70-130/30
10061-02-6	trans-1,3-Dichloropropene	10.2	10.0	98	10.2	100	2	70-130/30
64-17-5	Ethanol	10.2	10.1	99	10.1	99	0	70-130/30
100-41-4	Ethylbenzene	11	10.8	98	10.9	99	1	70-130/30
141-78-6	Ethyl Acetate	10.8	10.6	98	10.6	98	0	70-130/30
622-96-8	4-Ethyltoluene	10.9	11.5	106	11.7	107	2	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Page 2 of 3

Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W437-BS	7W12290.D	1	01/31/25	WC	n/a	n/a	V7W437
V7W437-BSD	7W12291.D	1	01/31/25	WC	n/a	n/a	V7W437

The QC reported here applies to the following samples:

Method: TO-15

V7W437-SCC

CAS No.	Compound	Spike ppbv	BSP ppbv	BSP %	BSD ppbv	BSD %	RPD	Limits Rec/RPD
76-13-1	Freon 113	10.6	12.5	118	12.4	117	1	70-130/30
76-14-2	Freon 114	11	12.8	116	12.8	116	0	70-130/30
142-82-5	Heptane	11	9.7	88	9.7	88	0	70-130/30
87-68-3	Hexachlorobutadiene	10.8	13.9	129	13.5	125	3	70-130/30
110-54-3	Hexane	10.8	9.6	89	9.7	90	1	70-130/30
591-78-6	2-Hexanone	10.6	8.6	81	8.7	82	1	70-130/30
67-63-0	Isopropyl Alcohol	10.6	8.8	83	8.8	83	0	70-130/30
75-09-2	Methylene chloride	10.5	10.8	103	10.8	103	0	70-130/30
78-93-3	Methyl ethyl ketone	10.8	10.8	100	11.0	102	2	70-130/30
108-10-1	Methyl Isobutyl Ketone	10.8	9.7	90	9.8	91	1	70-130/30
1634-04-4	Methyl Tert Butyl Ether	10.8	10.3	95	10.4	96	1	70-130/30
80-62-6	Methylmethacrylate	10.9	10.2	94	10.4	95	2	70-130/30
115-07-1	Propylene	10.9	8.0	73	8.2	75	2	70-130/30
100-42-5	Styrene	11	11.5	105	11.6	105	1	70-130/30
71-55-6	1,1,1-Trichloroethane	10.8	11.0	102	11.2	104	2	70-130/30
79-34-5	1,1,2,2-Tetrachloroethane	10.9	12.3	113	12.3	113	0	70-130/30
79-00-5	1,1,2-Trichloroethane	10.7	11.1	104	11.4	107	3	70-130/30
120-82-1	1,2,4-Trichlorobenzene	10.9	13.9	128	13.7	126	1	70-130/30
95-63-6	1,2,4-Trimethylbenzene	11	12.2	111	12.2	111	0	70-130/30
108-67-8	1,3,5-Trimethylbenzene	10.9	11.6	106	11.6	106	0	70-130/30
540-84-1	2,2,4-Trimethylpentane	10.8	10.1	94	10.2	94	1	70-130/30
75-65-0	Tertiary Butyl Alcohol	9.9	9.3	94	9.5	96	2	70-130/30
127-18-4	Tetrachloroethylene	10.9	11.4	105	11.6	106	2	70-130/30
109-99-9	Tetrahydrofuran	10.5	11.2	107	11.4	109	2	70-130/30
108-88-3	Toluene	10.6	10.4	98	10.5	99	1	70-130/30
79-01-6	Trichloroethylene	10.5	11.1	106	11.2	107	1	70-130/30
75-69-4	Trichlorofluoromethane	10.6	11.9	112	11.9	112	0	70-130/30
75-01-4	Vinyl chloride	10.3	11.1	108	10.8	105	3	70-130/30
108-05-4	Vinyl Acetate	10.4	10.0	96	10.3	99	3	70-130/30
	m,p-Xylene	21.4	21.9	102	21.9	102	0	70-130/30
95-47-6	o-Xylene	10.9	11.2	103	11.2	103	0	70-130/30
1330-20-7	Xylenes (total)	32.3	33.0	102	33.2	103	1	70-130/30

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W437-BS	7W12290.D	1	01/31/25	WC	n/a	n/a	V7W437
V7W437-BSD	7W12291.D	1	01/31/25	WC	n/a	n/a	V7W437

The QC reported here applies to the following samples: Method: TO-15

V7W437-SCC

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
460-00-4	4-Bromofluorobenzene	107%	107%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE5976-1DUP	5W57169.D	1	03/04/25	TCH	n/a	n/a	V5W2193
JE5976-1	5W57167.D	1	03/03/25	TCH	n/a	n/a	V5W2193

The QC reported here applies to the following samples: **Method:** TO-15

JE5976-1

CAS No.	Compound	JE5976-1 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	4.1		4.6		11	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	0.14	J	0.16	J	13	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	0.63		0.76		19	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.48		0.52		8	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	9.9		10.8		9	25
100-41-4	Ethylbenzene	0.19	J	0.20		5	25
141-78-6	Ethyl Acetate	0.24		0.30		22	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE5976-1DUP	5W57169.D	1	03/04/25	TCH	n/a	n/a	V5W2193
JE5976-1	5W57167.D	1	03/03/25	TCH	n/a	n/a	V5W2193

The QC reported here applies to the following samples:

Method: TO-15

JE5976-1

CAS No.	Compound	JE5976-1 ppbv	DUP Q	ppbv	Q	RPD	Limits
76-13-1	Freon 113	0.16		0.16	J	0	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	0.10	J	0.17	J	52* a	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	0.93		1.2		25	25
75-09-2	Methylene chloride	0.22		0.30		31* b	25
78-93-3	Methyl ethyl ketone	0.23		0.25		8	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	ND		ND		nc	25
109-99-9	Tetrahydrofuran	0.23		0.24		4	25
108-88-3	Toluene	ND		ND		nc	25
79-01-6	Trichloroethylene	0.065		0.58		160* b	25
75-69-4	Trichlorofluoromethane	0.28		0.31		10	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE5976-1DUP	5W57169.D	1	03/04/25	TCH	n/a	n/a	V5W2193
JE5976-1	5W57167.D	1	03/03/25	TCH	n/a	n/a	V5W2193

The QC reported here applies to the following samples: Method: TO-15

JE5976-1

CAS No.	Surrogate Recoveries	DUP	JE5976-1	Limits
460-00-4	4-Bromofluorobenzene	107%	105%	65-128%

- (a) RPD acceptable due to low DUP and sample concentrations.
- (b) Outside control limits.

* = Outside of Control Limits.

Duplicate Summary

Page 1 of 3

Job Number: JE5976**Account:** EAENYS EA Engineering**Project:** Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE5976-3DUP	5W57181.D	1	03/05/25	TCH	n/a	n/a	V5W2194
JE5976-3	5W57180.D	1	03/04/25	TCH	n/a	n/a	V5W2194

The QC reported here applies to the following samples:**Method:** TO-15

JE5976-3, JE5976-5, JE5976-6, JE5976-8, JE5976-11, JE5976-12, JE5976-15

CAS No.	Compound	JE5976-3 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	6.7		6.9		3	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	0.14	J	0.14	J	0	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	0.70		0.72		3	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	ND		ND		nc	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	0.48		0.47		2	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	19.8		20.8		5	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	5.2		5.4		4	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE5976-3DUP	5W57181.D	1	03/05/25	TCH	n/a	n/a	V5W2194
JE5976-3	5W57180.D	1	03/04/25	TCH	n/a	n/a	V5W2194

The QC reported here applies to the following samples:

Method: TO-15

JE5976-3, JE5976-5, JE5976-6, JE5976-8, JE5976-11, JE5976-12, JE5976-15

CAS No.	Compound	JE5976-3 ppbv	DUP Q	ppbv	Q	RPD	Limits
76-13-1	Freon 113	ND		ND		nc	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	ND		ND		nc	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	0.21		0.22		5	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	2.2		2.2		0	25
75-09-2	Methylene chloride	0.43		0.43		0	25
78-93-3	Methyl ethyl ketone	0.22		0.18	J	20	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	0.14	J	ND		200* a	25
127-18-4	Tetrachloroethylene	0.15		0.14		7	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	0.33		0.33		0	25
79-01-6	Trichloroethylene	0.19		0.13		38* b	25
75-69-4	Trichlorofluoromethane	0.31		0.33		6	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	0.26		0.30		14	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE5976-3DUP	5W57181.D	1	03/05/25	TCH	n/a	n/a	V5W2194
JE5976-3	5W57180.D	1	03/04/25	TCH	n/a	n/a	V5W2194

The QC reported here applies to the following samples: Method: TO-15

JE5976-3, JE5976-5, JE5976-6, JE5976-8, JE5976-11, JE5976-12, JE5976-15

CAS No.	Surrogate Recoveries	DUP	JE5976-3	Limits
460-00-4	4-Bromofluorobenzene	105%	104%	65-128%

- (a) RPD acceptable due to low DUP and sample concentrations.
- (b) Outside control limits.

* = Outside of Control Limits.

Duplicate Summary

Page 1 of 3

Job Number: JE5976**Account:** EAENYS EA Engineering**Project:** Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE5976-2DUP	7W13228.D	1	03/06/25	WC	n/a	n/a	V7W465
JE5976-2	7W13227.D	1	03/06/25	WC	n/a	n/a	V7W465

The QC reported here applies to the following samples:**Method:** TO-15

JE5976-2, JE5976-4, JE5976-7, JE5976-9, JE5976-10, JE5976-13, JE5976-14

CAS No.	Compound	JE5976-2 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	3.7		3.8		3	25
106-99-0	1,3-Butadiene	ND		ND		nc	25
71-43-2	Benzene	ND		ND		nc	25
75-27-4	Bromodichloromethane	ND		ND		nc	25
75-25-2	Bromoform	ND		ND		nc	25
74-83-9	Bromomethane	ND		ND		nc	25
593-60-2	Bromoethene	ND		ND		nc	25
100-44-7	Benzyl Chloride	ND		ND		nc	25
75-15-0	Carbon disulfide	ND		ND		nc	25
108-90-7	Chlorobenzene	ND		ND		nc	25
75-00-3	Chloroethane	ND		ND		nc	25
67-66-3	Chloroform	ND		ND		nc	25
74-87-3	Chloromethane	ND		ND		nc	25
107-05-1	3-Chloropropene	ND		ND		nc	25
95-49-8	2-Chlorotoluene	ND		ND		nc	25
56-23-5	Carbon tetrachloride	ND		ND		nc	25
110-82-7	Cyclohexane	0.40	J	0.41	J	2	25
75-34-3	1,1-Dichloroethane	ND		ND		nc	25
75-35-4	1,1-Dichloroethylene	ND		ND		nc	25
106-93-4	1,2-Dibromoethane (EDB)	ND		ND		nc	25
107-06-2	1,2-Dichloroethane	ND		ND		nc	25
78-87-5	1,2-Dichloropropane	ND		ND		nc	25
123-91-1	1,4-Dioxane	ND		ND		nc	25
75-71-8	Dichlorodifluoromethane	ND		ND		nc	25
124-48-1	Dibromochloromethane	ND		ND		nc	25
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	25
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	25
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	25
541-73-1	m-Dichlorobenzene	ND		ND		nc	25
95-50-1	o-Dichlorobenzene	ND		ND		nc	25
106-46-7	p-Dichlorobenzene	ND		ND		nc	25
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	25
64-17-5	Ethanol	ND		ND		nc	25
100-41-4	Ethylbenzene	ND		ND		nc	25
141-78-6	Ethyl Acetate	ND		ND		nc	25
622-96-8	4-Ethyltoluene	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE5976-2DUP	7W13228.D	1	03/06/25	WC	n/a	n/a	V7W465
JE5976-2	7W13227.D	1	03/06/25	WC	n/a	n/a	V7W465

The QC reported here applies to the following samples:

Method: TO-15

JE5976-2, JE5976-4, JE5976-7, JE5976-9, JE5976-10, JE5976-13, JE5976-14

CAS No.	Compound	JE5976-2 ppbv	DUP Q	ppbv	Q	RPD	Limits
76-13-1	Freon 113	33.9		34.9		3	25
76-14-2	Freon 114	ND		ND		nc	25
142-82-5	Heptane	2.9		2.8		4	25
87-68-3	Hexachlorobutadiene	ND		ND		nc	25
110-54-3	Hexane	2.5		2.6		4	25
591-78-6	2-Hexanone	ND		ND		nc	25
67-63-0	Isopropyl Alcohol	ND		ND		nc	25
75-09-2	Methylene chloride	ND		ND		nc	25
78-93-3	Methyl ethyl ketone	ND		ND		nc	25
108-10-1	Methyl Isobutyl Ketone	ND		ND		nc	25
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	25
80-62-6	Methylmethacrylate	ND		ND		nc	25
115-07-1	Propylene	ND		ND		nc	25
100-42-5	Styrene	ND		ND		nc	25
71-55-6	1,1,1-Trichloroethane	0.53		0.55	J	4	25
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	25
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	25
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	25
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	25
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	25
540-84-1	2,2,4-Trimethylpentane	ND		ND		nc	25
75-65-0	Tertiary Butyl Alcohol	ND		ND		nc	25
127-18-4	Tetrachloroethylene	1.5		1.5		0	25
109-99-9	Tetrahydrofuran	ND		ND		nc	25
108-88-3	Toluene	0.93		0.92		1	25
79-01-6	Trichloroethylene	4.0		4.0		0	25
75-69-4	Trichlorofluoromethane	ND		ND		nc	25
75-01-4	Vinyl chloride	ND		ND		nc	25
108-05-4	Vinyl Acetate	ND		ND		nc	25
	m,p-Xylene	ND		ND		nc	25
95-47-6	o-Xylene	ND		ND		nc	25
1330-20-7	Xylenes (total)	ND		ND		nc	25

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE5976-2DUP	7W13228.D	1	03/06/25	WC	n/a	n/a	V7W465
JE5976-2	7W13227.D	1	03/06/25	WC	n/a	n/a	V7W465

The QC reported here applies to the following samples: Method: TO-15

JE5976-2, JE5976-4, JE5976-7, JE5976-9, JE5976-10, JE5976-13, JE5976-14

CAS No.	Surrogate Recoveries	DUP	JE5976-2	Limits
460-00-4	4-Bromofluorobenzene	95%	94%	65-128%

* = Outside of Control Limits.

Duplicate Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JE5791-3DUP	5W57230.D	1	03/06/25	TCH	n/a	n/a	V5W2196
JE5791-3	5W57229.D	1	03/06/25	TCH	n/a	n/a	V5W2196

The QC reported here applies to the following samples: Method: TO-15

JE5976-6

CAS No.	Compound	JE5791-3 ppbv	DUP Q	ppbv	Q	RPD	Limits
67-64-1	Acetone (2-Propanone)	2.9		3.0		3	25

CAS No.	Surrogate Recoveries	DUP	JE5791-3	Limits
460-00-4	4-Bromofluorobenzene	104%	104%	65-128%

* = Outside of Control Limits.

Summa Cleaning Certification**Job Number:** JE5976**Account:** EAENYS EA Engineering**Project:** Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W425-SCC	7W11904.D	1	01/19/25	BK	n/a	n/a	V7W425

The QC reported here (Summa A2540) applies to the following samples:**Method:** TO-15

Batch CP12976 cleaned 01/16/25: JE5976-2(M223), JE5976-3(A2191), JE5976-4(A852), JE5976-5(A1876), JE5976-7(A1859), JE5976-8(A1846), JE5976-9(A2188), JE5976-10(A1863), JE5976-13(A226), JE5976-14(A1276)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.047	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.13	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W425-SCC	7W11904.D	1	01/19/25	BK	n/a	n/a	V7W425

The QC reported here (Summa A2540) applies to the following samples:

Method: TO-15

Batch CP12976 cleaned 01/16/25: JE5976-2(M223), JE5976-3(A2191), JE5976-4(A852), JE5976-5(A1876), JE5976-7(A1859), JE5976-8(A1846), JE5976-9(A2188), JE5976-10(A1863), JE5976-13(A226), JE5976-14(A1276)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.091	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.078	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W425-SCC	7W11904.D	1	01/19/25	BK	n/a	n/a	V7W425

The QC reported here (Summa A2540) applies to the following samples: Method: TO-15

Batch CP12976 cleaned 01/16/25: JE5976-2(M223), JE5976-3(A2191), JE5976-4(A852), JE5976-5(A1876), JE5976-7(A1859), JE5976-8(A1846), JE5976-9(A2188), JE5976-10(A1863), JE5976-13(A226), JE5976-14(A1276)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	98% 65-128%

Summa Cleaning Certification

Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2165-SCC	5W56533.D	1	01/30/25	TCH	n/a	n/a	V5W2165

The QC reported here (Summa A1275) applies to the following samples:

Method: TO-15

Batch CP12986 cleaned 01/25/25: JE5976-1(A633), JE5976-6(A2126), JE5976-11(A864), JE5976-15(A2135)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.047	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.13	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2165-SCC	5W56533.D	1	01/30/25	TCH	n/a	n/a	V5W2165

The QC reported here (Summa A1275) applies to the following samples:

Method: TO-15

Batch CP12986 cleaned 01/25/25: JE5976-1(A633), JE5976-6(A2126), JE5976-11(A864), JE5976-15(A2135)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.091	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.078	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5W2165-SCC	5W56533.D	1	01/30/25	TCH	n/a	n/a	V5W2165

The QC reported here (Summa A1275) applies to the following samples: Method: TO-15

Batch CP12986 cleaned 01/25/25: JE5976-1(A633), JE5976-6(A2126), JE5976-11(A864), JE5976-15(A2135)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	116% 65-128%

Summa Cleaning Certification

Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W437-SCC	7W12295.D	1	01/31/25	WC	n/a	n/a	V7W437

The QC reported here (Summa A268) applies to the following samples:

Method: TO-15

Batch CP12988 cleaned 01/28/25: JE5976-12(A1114)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
67-64-1	Acetone (2-Propanone)	ND	0.20	0.15	ppbv		ND	0.48	ug/m3
106-99-0	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	ug/m3
71-43-2	Benzene	ND	0.20	0.047	ppbv		ND	0.64	ug/m3
75-27-4	Bromodichloromethane	ND	0.20	0.030	ppbv		ND	1.3	ug/m3
75-25-2	Bromoform	ND	0.20	0.071	ppbv		ND	2.1	ug/m3
74-83-9	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	ug/m3
593-60-2	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
100-44-7	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	ug/m3
75-15-0	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	ug/m3
108-90-7	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	ug/m3
75-00-3	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	ug/m3
67-66-3	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	ug/m3
74-87-3	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	ug/m3
107-05-1	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	ug/m3
95-49-8	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	ug/m3
56-23-5	Carbon tetrachloride	ND	0.20	0.040	ppbv		ND	1.3	ug/m3
110-82-7	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	ug/m3
75-34-3	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	ug/m3
75-35-4	1,1-Dichloroethylene	ND	0.20	0.059	ppbv		ND	0.79	ug/m3
106-93-4	1,2-Dibromoethane (EDB)	ND	0.20	0.030	ppbv		ND	1.5	ug/m3
107-06-2	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	ug/m3
78-87-5	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	ug/m3
123-91-1	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	ug/m3
75-71-8	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	ug/m3
124-48-1	Dibromochloromethane	ND	0.20	0.052	ppbv		ND	1.7	ug/m3
156-60-5	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	ug/m3
156-59-2	cis-1,2-Dichloroethylene	ND	0.20	0.030	ppbv		ND	0.79	ug/m3
10061-01-5	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	ug/m3
541-73-1	m-Dichlorobenzene	ND	0.20	0.13	ppbv		ND	1.2	ug/m3
95-50-1	o-Dichlorobenzene	ND	0.20	0.069	ppbv		ND	1.2	ug/m3
106-46-7	p-Dichlorobenzene	ND	0.20	0.079	ppbv		ND	1.2	ug/m3
10061-02-6	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	ug/m3
64-17-5	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	ug/m3
100-41-4	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	ug/m3
141-78-6	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	ug/m3
622-96-8	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	ug/m3

Summa Cleaning Certification

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W437-SCC	7W12295.D	1	01/31/25	WC	n/a	n/a	V7W437

The QC reported here (Summa A268) applies to the following samples:

Method: TO-15

Batch CP12988 cleaned 01/28/25: JE5976-12(A1114)

CAS No.	Compound	Result	RL	MDL	Units	Q	Result	RL	Units
76-13-1	Freon 113	ND	0.20	0.031	ppbv		ND	1.5	ug/m3
76-14-2	Freon 114	ND	0.20	0.050	ppbv		ND	1.4	ug/m3
142-82-5	Heptane	ND	0.20	0.091	ppbv		ND	0.82	ug/m3
87-68-3	Hexachlorobutadiene	ND	0.20	0.062	ppbv		ND	2.1	ug/m3
110-54-3	Hexane	ND	0.20	0.052	ppbv		ND	0.70	ug/m3
591-78-6	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	ug/m3
67-63-0	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	ug/m3
75-09-2	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	ug/m3
78-93-3	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	ug/m3
108-10-1	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	ug/m3
1634-04-4	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	ug/m3
80-62-6	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	ug/m3
115-07-1	Propylene	ND	0.50	0.14	ppbv		ND	0.86	ug/m3
100-42-5	Styrene	ND	0.20	0.053	ppbv		ND	0.85	ug/m3
71-55-6	1,1,1-Trichloroethane	ND	0.20	0.078	ppbv		ND	1.1	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.20	0.048	ppbv		ND	1.4	ug/m3
79-00-5	1,1,2-Trichloroethane	ND	0.20	0.038	ppbv		ND	1.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	ND	0.20	0.12	ppbv		ND	1.5	ug/m3
95-63-6	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	ug/m3
108-67-8	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	ug/m3
540-84-1	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	ug/m3
75-65-0	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	ug/m3
127-18-4	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	ug/m3
109-99-9	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	ug/m3
108-88-3	Toluene	ND	0.20	0.057	ppbv		ND	0.75	ug/m3
79-01-6	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	ug/m3
75-69-4	Trichlorofluoromethane	ND	0.20	0.15	ppbv		ND	1.1	ug/m3
75-01-4	Vinyl chloride	ND	0.20	0.069	ppbv		ND	0.51	ug/m3
108-05-4	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	ug/m3
	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	ug/m3
95-47-6	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	ug/m3
1330-20-7	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	ug/m3

Summa Cleaning Certification

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7W437-SCC	7W12295.D	1	01/31/25	WC	n/a	n/a	V7W437

The QC reported here (Summa A268) applies to the following samples: Method: TO-15

Batch CP12988 cleaned 01/28/25: JE5976-12(A1114)

CAS No.	Surrogate Recoveries	Limits
460-00-4	4-Bromofluorobenzene	96% 65-128%

Instrument Performance Check (BFB)

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Job Number: JE5976**Account:** EAENYS EA Engineering**Project:** Sulphur Springs Road, Binghamton, NY**Sample:** V5W2144-BFB**Injection Date:** 01/08/25**Lab File ID:** 5W55993.D**Injection Time:** 23:56**Instrument ID:** GCMS5W

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	98517	19.3	Pass
75	30.0 - 66.0% of mass 95	249792	48.9	Pass
95	Base peak, 100% relative abundance	510763	100.0	Pass
96	5.0 - 9.0% of mass 95	33464	6.55	Pass
173	Less than 2.0% of mass 174	5620	1.10 (1.14) ^a	Pass
174	50.0 - 120.0% of mass 95	494933	96.9	Pass
175	4.0 - 9.01% of mass 174	36869	7.22 (7.45) ^a	Pass
176	93.0 - 101.0% of mass 174	482155	94.4 (97.4) ^a	Pass
177	5.0 - 9.0% of mass 176	31496	6.17 (6.53) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2144-IC2144	5W55994.D	01/09/25	00:36	00:40	Initial cal 0.04
V5W2144-IC2144	5W55995.D	01/09/25	01:16	01:20	Initial cal 0.1
V5W2144-IC2144	5W55996.D	01/09/25	01:59	02:03	Initial cal 0.2
V5W2144-IC2144	5W56001.D	01/09/25	05:39	05:43	Initial cal 5
V5W2144-ICC2144	5W56002.D	01/09/25	06:20	06:24	Initial cal 10
V5W2144-IC2144	5W56003.D	01/09/25	07:03	07:07	Initial cal 20
V5W2144-IC2144	5W56004.D	01/09/25	07:49	07:53	Initial cal 40
V5W2144-IC2144	5W56005.D	01/09/25	08:36	08:40	Initial cal 50
V5W2144-IC2144	5W56013.D	01/09/25	15:02	15:06	Initial cal 0.5
V5W2144-ICV2144	5W56014.D	01/09/25	15:42	15:46	Initial cal verification 10

Instrument Performance Check (BFB)

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2165-BFB	Injection Date: 01/30/25
Lab File ID: 5W56522.D	Injection Time: 12:01
Instrument ID: GCMS5W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	102264	20.8	Pass
75	30.0 - 66.0% of mass 95	241749	49.1	Pass
95	Base peak, 100% relative abundance	492501	100.0	Pass
96	5.0 - 9.0% of mass 95	33557	6.81	Pass
173	Less than 2.0% of mass 174	9444	1.92 (1.73) ^a	Pass
174	50.0 - 120.0% of mass 95	547328	111.1	Pass
175	4.0 - 9.01% of mass 174	44776	9.09 (8.18) ^a	Pass
176	93.0 - 101.0% of mass 174	532267	108.1 (97.2) ^a	Pass
177	5.0 - 9.0% of mass 176	35152	7.14 (6.60) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2165-CC2144	5W56523.D	01/30/25	12:42	00:41	Continuing cal 10
V5W2165-BS	5W56524.D	01/30/25	14:19	02:18	Blank Spike
V5W2165-BSD	5W56525.D	01/30/25	15:00	02:59	Blank Spike Duplicate
V5W2165-MB	5W56528.D	01/30/25	17:21	05:20	Method Blank
V5W2165-SCC	5W56529.D	01/30/25	18:26	06:25	Summa Cleaning Certification
V5W2165-SCC	5W56533.D	01/30/25	21:32	09:31	Summa Cleaning Certification
JE4766-1	5W56534.D	01/30/25	22:18	10:17	(used for QC only; not part of job JE5976)
JE4766-1DUP	5W56535.D	01/30/25	23:05	11:04	Duplicate
ZZZZZZ	5W56536.D	01/30/25	23:51	11:50	(unrelated sample)
ZZZZZZ	5W56537.D	01/31/25	00:38	12:37	(unrelated sample)
ZZZZZZ	5W56538.D	01/31/25	01:19	13:18	(unrelated sample)
ZZZZZZ	5W56539.D	01/31/25	02:01	14:00	(unrelated sample)
ZZZZZZ	5W56540.D	01/31/25	02:42	14:41	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2187-BFB	Injection Date: 02/23/25
Lab File ID: 5W57029.D	Injection Time: 01:15
Instrument ID: GCMS5W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	110643	18.8	Pass
75	30.0 - 66.0% of mass 95	271680	46.0	Pass
95	Base peak, 100% relative abundance	590016	100.0	Pass
96	5.0 - 9.0% of mass 95	39536	6.70	Pass
173	Less than 2.0% of mass 174	4639	0.79 (0.81) ^a	Pass
174	50.0 - 120.0% of mass 95	572864	97.1	Pass
175	4.0 - 9.01% of mass 174	42117	7.14 (7.35) ^a	Pass
176	93.0 - 101.0% of mass 174	563371	95.5 (98.3) ^a	Pass
177	5.0 - 9.0% of mass 176	37405	6.34 (6.64) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2187-IC2187	5W57030.D	02/23/25	02:03	00:48	Initial cal 0.04
V5W2187-IC2187	5W57031.D	02/23/25	02:53	01:38	Initial cal 0.1
V5W2187-IC2187	5W57037.D	02/23/25	08:09	06:54	Initial cal 0.2
V5W2187-IC2187	5W57043.D	02/23/25	13:23	12:08	Initial cal 5
V5W2187-ICC2187	5W57044.D	02/23/25	14:13	12:58	Initial cal 10
V5W2187-IC2187	5W57045.D	02/23/25	15:05	13:50	Initial cal 20
V5W2187-IC2187	5W57046.D	02/23/25	16:01	14:46	Initial cal 40
V5W2187-IC2187	5W57047.D	02/23/25	16:59	15:44	Initial cal 50

Instrument Performance Check (BFB)

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample:	V5W2187-BFB2	Injection Date:	02/24/25
Lab File ID:	5W57058.D	Injection Time:	06:59
Instrument ID:	GCMS5W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	103501	18.5	Pass
75	30.0 - 66.0% of mass 95	259008	46.2	Pass
95	Base peak, 100% relative abundance	560363	100.0	Pass
96	5.0 - 9.0% of mass 95	37155	6.63	Pass
173	Less than 2.0% of mass 174	4909	0.88 (0.86) ^a	Pass
174	50.0 - 120.0% of mass 95	572992	102.3	Pass
175	4.0 - 9.01% of mass 174	42824	7.64 (7.47) ^a	Pass
176	93.0 - 101.0% of mass 174	565184	100.9 (98.6) ^a	Pass
177	5.0 - 9.0% of mass 176	37787	6.74 (6.69) ^b	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2187-IC2187	5W57059.D	02/24/25	07:51	00:52	Initial cal 0.5
V5W2187-ICV2187	5W57061.D	02/24/25	09:33	02:34	Initial cal verification 10

6.5.4
6

Instrument Performance Check (BFB)

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample:	V5W2193-BFB	Injection Date:	03/03/25
Lab File ID:	5W57160.D	Injection Time:	12:10
Instrument ID:	GCMS5W		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	99400	19.2	Pass
75	30.0 - 66.0% of mass 95	245205	47.2	Pass
95	Base peak, 100% relative abundance	518976	100.0	Pass
96	5.0 - 9.0% of mass 95	34757	6.70	Pass
173	Less than 2.0% of mass 174	4769	0.92 (0.91) ^a	Pass
174	50.0 - 120.0% of mass 95	521835	100.6	Pass
175	4.0 - 9.01% of mass 174	40131	7.73 (7.69) ^a	Pass
176	93.0 - 101.0% of mass 174	523861	100.9 (100.4) ^a	Pass
177	5.0 - 9.0% of mass 176	35120	6.77 (6.70) ^b	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2193-CC2187	5W57161.D	03/03/25	13:00	00:50	Continuing cal 10
V5W2193-BS	5W57163.D	03/03/25	15:15	03:05	Blank Spike
V5W2193-BSD	5W57164.D	03/03/25	16:09	03:59	Blank Spike Duplicate
V5W2193-MB	5W57166.D	03/03/25	17:55	05:45	Method Blank
JE5976-1	5W57167.D	03/03/25	18:51	06:41	754020-IA-1-2182025
JE5976-1DUP	5W57169.D	03/04/25	10:09	21:59	Duplicate
ZZZZZZ	5W57170R.D	03/04/25	10:58	22:48	(unrelated sample)
ZZZZZZ	5W57170.D	03/04/25	10:58	22:48	(unrelated sample)
ZZZZZZ	5W57171.D	03/04/25	11:57	23:47	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2194-BFB	Injection Date: 03/04/25
Lab File ID: 5W57173.D	Injection Time: 16:43
Instrument ID: GCMS5W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	97091	20.2	Pass
75	30.0 - 66.0% of mass 95	227435	47.3	Pass
95	Base peak, 100% relative abundance	480661	100.0	Pass
96	5.0 - 9.0% of mass 95	32085	6.68	Pass
173	Less than 2.0% of mass 174	4224	0.88 (0.92) ^a	Pass
174	50.0 - 120.0% of mass 95	456939	95.1	Pass
175	4.0 - 9.01% of mass 174	34733	7.23 (7.60) ^a	Pass
176	93.0 - 101.0% of mass 174	452629	94.2 (99.1) ^a	Pass
177	5.0 - 9.0% of mass 176	30200	6.28 (6.67) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2194-CC2187	5W57175.D	03/04/25	18:53	02:10	Continuing cal 10
V5W2194-BS	5W57176.D	03/04/25	19:43	03:00	Blank Spike
V5W2194-BSD	5W57177.D	03/04/25	20:33	03:50	Blank Spike Duplicate
V5W2194-MB	5W57179.D	03/04/25	22:19	05:36	Method Blank
JE5976-3	5W57180.D	03/04/25	23:15	06:32	754020-IA-2-2182025
JE5976-3DUP	5W57181.D	03/05/25	00:11	07:28	Duplicate
JE5976-5	5W57182.D	03/05/25	01:06	08:23	754020-IA-3-2182025
JE5976-6	5W57183.D	03/05/25	02:00	09:17	754020-DUP-1-2182025
JE5976-8	5W57184.D	03/05/25	02:54	10:11	754020-IA-4-2182025
JE5976-11	5W57185.D	03/05/25	03:48	11:05	754020-IA-5-2182025
JE5976-12	5W57186.D	03/05/25	04:40	11:57	754020-DUP-2-2182025
JE5976-15	5W57187.D	03/05/25	05:31	12:48	754020-IA-6-2182025
ZZZZZZ	5W57188.D	03/05/25	06:23	13:40	(unrelated sample)
ZZZZZZ	5W57189.D	03/05/25	07:15	14:32	(unrelated sample)
ZZZZZZ	5W57190.D	03/05/25	08:01	15:18	(unrelated sample)
ZZZZZZ	5W57191.D	03/05/25	08:48	16:05	(unrelated sample)
ZZZZZZ	5W57192.D	03/05/25	09:34	16:51	(unrelated sample)
ZZZZZZ	5W57193.D	03/05/25	10:21	17:38	(unrelated sample)
JE5976-5	5W57194.D	03/05/25	11:07	18:24	754020-IA-3-2182025

Instrument Performance Check (BFB)

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2196-BFB	Injection Date: 03/06/25
Lab File ID: 5W57221.D	Injection Time: 12:27
Instrument ID: GCMS5W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	77077	18.7	Pass
75	30.0 - 66.0% of mass 95	196651	47.8	Pass
95	Base peak, 100% relative abundance	411648	100.0	Pass
96	5.0 - 9.0% of mass 95	27797	6.75	Pass
173	Less than 2.0% of mass 174	3426	0.83 (0.92) ^a	Pass
174	50.0 - 120.0% of mass 95	371349	90.2	Pass
175	4.0 - 9.01% of mass 174	28387	6.90 (7.64) ^a	Pass
176	93.0 - 101.0% of mass 174	373739	90.8 (100.6) ^a	Pass
177	5.0 - 9.0% of mass 176	25528	6.20 (6.83) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V5W2196-CC2187	5W57222.D	03/06/25	13:10	00:43	Continuing cal 10
V5W2196-BS	5W57223.D	03/06/25	14:01	01:34	Blank Spike
V5W2196-BSD	5W57224.D	03/06/25	14:44	02:17	Blank Spike Duplicate
V5W2196-MB	5W57226.D	03/06/25	16:24	03:57	Method Blank
ZZZZZZ	5W57227.D	03/06/25	17:12	04:45	(unrelated sample)
ZZZZZZ	5W57228.D	03/06/25	18:01	05:34	(unrelated sample)
JE5791-3	5W57229.D	03/06/25	18:50	06:23	(used for QC only; not part of job JE5976)
JE5791-3DUP	5W57230.D	03/06/25	19:39	07:12	Duplicate
ZZZZZZ	5W57231.D	03/06/25	20:27	08:00	(unrelated sample)
ZZZZZZ	5W57232.D	03/06/25	21:16	08:49	(unrelated sample)
ZZZZZZ	5W57233.D	03/06/25	22:05	09:38	(unrelated sample)
ZZZZZZ	5W57234.D	03/06/25	22:48	10:21	(unrelated sample)
ZZZZZZ	5W57235.D	03/06/25	23:31	11:04	(unrelated sample)
ZZZZZZ	5W57236.D	03/07/25	00:16	11:49	(unrelated sample)
ZZZZZZ	5W57237.D	03/07/25	00:59	12:32	(unrelated sample)
ZZZZZZ	5W57238.D	03/07/25	01:42	13:15	(unrelated sample)
JE5976-6	5W57239.D	03/07/25	02:25	13:58	754020-DUP-1-2182025
ZZZZZZ	5W57243.D	03/07/25	05:21	16:54	(unrelated sample)
ZZZZZZ	5W57244.D	03/07/25	06:10	17:43	(unrelated sample)
ZZZZZZ	5W57245.D	03/07/25	06:58	18:31	(unrelated sample)
ZZZZZZ	5W57246.D	03/07/25	07:47	19:20	(unrelated sample)
ZZZZZZ	5W57247.D	03/07/25	08:36	20:09	(unrelated sample)
ZZZZZZ	5W57248.D	03/07/25	09:43	21:16	(unrelated sample)

Instrument Performance Check (BFB)

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W405-BFB	Injection Date: 12/28/24
Lab File ID: 7W11232.D	Injection Time: 08:40
Instrument ID: GCMS7W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	32515	22.0	Pass
75	30.0 - 66.0% of mass 95	74333	50.3	Pass
95	Base peak, 100% relative abundance	147925	100.0	Pass
96	5.0 - 9.0% of mass 95	9647	6.52	Pass
173	Less than 2.0% of mass 174	1064	0.72 (0.95) ^a	Pass
174	50.0 - 120.0% of mass 95	111515	75.4	Pass
175	4.0 - 9.01% of mass 174	7970	5.39 (7.15) ^a	Pass
176	93.0 - 101.0% of mass 174	106229	71.8 (95.3) ^a	Pass
177	5.0 - 9.0% of mass 176	7045	4.76 (6.63) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W405-IC405	7W11233.D	12/28/24	09:16	00:36	Initial cal 0.04
V7W405-IC405	7W11234.D	12/28/24	09:53	01:13	Initial cal 0.10
V7W405-IC405	7W11235.D	12/28/24	10:32	01:52	Initial cal 0.20
V7W405-IC405	7W11237.D	12/28/24	11:51	03:11	Initial cal 0.50
V7W405-IC405	7W11238.D	12/28/24	12:34	03:54	Initial cal 5
V7W405-ICC405	7W11240.D	12/28/24	13:47	05:07	Initial cal 10
V7W405-IC405	7W11241.D	12/28/24	14:25	05:45	Initial cal 20
V7W405-IC405	7W11242.D	12/28/24	15:08	06:28	Initial cal 40
V7W405-IC405	7W11243.D	12/28/24	15:52	07:12	Initial cal 50
V7W405-ICV405	7W11247.D	12/28/24	18:36	09:56	Initial cal verification 10

Instrument Performance Check (BFB)

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W425-BFB	Injection Date: 01/18/25
Lab File ID: 7W11896.D	Injection Time: 22:23
Instrument ID: GCMS7W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	25363	22.0	Pass
75	30.0 - 66.0% of mass 95	60997	52.8	Pass
95	Base peak, 100% relative abundance	115475	100.0	Pass
96	5.0 - 9.0% of mass 95	7940	6.88	Pass
173	Less than 2.0% of mass 174	770	0.67 (0.89) ^a	Pass
174	50.0 - 120.0% of mass 95	86200	74.6	Pass
175	4.0 - 9.01% of mass 174	6285	5.44 (7.29) ^a	Pass
176	93.0 - 101.0% of mass 174	83296	72.1 (96.6) ^a	Pass
177	5.0 - 9.0% of mass 176	5310	4.60 (6.37) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W425-CC405	7W11898.D	01/18/25	23:57	01:34	Continuing cal 10
V7W425-BS	7W11899.D	01/19/25	00:35	02:12	Blank Spike
V7W425-BSD	7W11900.D	01/19/25	01:14	02:51	Blank Spike Duplicate
V7W425-MB	7W11902.D	01/19/25	02:36	04:13	Method Blank
V7W425-SCC	7W11903.D	01/19/25	03:19	04:56	Summa Cleaning Certification
V7W425-SCC	7W11904.D	01/19/25	04:04	05:41	Summa Cleaning Certification
ZZZZZZ	7W11905.D	01/19/25	04:41	06:18	(unrelated sample)
ZZZZZZ	7W11906.D	01/19/25	05:25	07:02	(unrelated sample)
JE3878-3	7W11907.D	01/19/25	06:11	07:48	(used for QC only; not part of job JE5976)
JE3878-3DUP	7W11908.D	01/19/25	06:55	08:32	Duplicate
ZZZZZZ	7W11909.D	01/19/25	07:40	09:17	(unrelated sample)
ZZZZZZ	7W11910.D	01/19/25	08:24	10:01	(unrelated sample)
ZZZZZZ	7W11911.D	01/19/25	09:08	10:45	(unrelated sample)
ZZZZZZ	7W11912.D	01/19/25	09:52	11:29	(unrelated sample)
ZZZZZZ	7W11914.D	01/19/25	11:27	13:04	(unrelated sample)
ZZZZZZ	7W11915.D	01/19/25	12:11	13:48	(unrelated sample)
ZZZZZZ	7W11916.D	01/19/25	12:55	14:32	(unrelated sample)
ZZZZZZ	7W11917.D	01/19/25	13:41	15:18	(unrelated sample)
ZZZZZZ	7W11918.D	01/19/25	14:27	16:04	(unrelated sample)
ZZZZZZ	7W11919.D	01/19/25	15:12	16:49	(unrelated sample)
ZZZZZZ	7W11920.D	01/19/25	15:57	17:34	(unrelated sample)
ZZZZZZ	7W11921.D	01/19/25	16:43	18:20	(unrelated sample)
ZZZZZZ	7W11922.D	01/19/25	17:28	19:05	(unrelated sample)
ZZZZZZ	7W11923.D	01/19/25	18:13	19:50	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample:	V7W425-BFB	Injection Date:	01/18/25
Lab File ID:	7W11896.D	Injection Time:	22:23
Instrument ID:	GCMS7W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	7W11924.D	01/19/25	18:59	20:36	(unrelated sample)
ZZZZZZ	7W11925.D	01/19/25	19:43	21:20	(unrelated sample)
ZZZZZZ	7W11926.D	01/19/25	20:28	22:05	(unrelated sample)
ZZZZZZ	7W11927.D	01/19/25	21:07	22:44	(unrelated sample)

6.5.9
6

Instrument Performance Check (BFB)

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W437-BFB	Injection Date: 01/31/25
Lab File ID: 7W12288.D	Injection Time: 10:20
Instrument ID: GCMS7W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	29480	20.7	Pass
75	30.0 - 66.0% of mass 95	74395	52.1	Pass
95	Base peak, 100% relative abundance	142741	100.0	Pass
96	5.0 - 9.0% of mass 95	9270	6.49	Pass
173	Less than 2.0% of mass 174	877	0.61 (0.79) ^a	Pass
174	50.0 - 120.0% of mass 95	111528	78.1	Pass
175	4.0 - 9.01% of mass 174	7966	5.58 (7.14) ^a	Pass
176	93.0 - 101.0% of mass 174	107323	75.2 (96.2) ^a	Pass
177	5.0 - 9.0% of mass 176	6937	4.86 (6.46) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W437-CC405	7W12289.D	01/31/25	10:58	00:38	Continuing cal 10
V7W437-BS	7W12290.D	01/31/25	11:39	01:19	Blank Spike
V7W437-BSD	7W12291.D	01/31/25	12:18	01:58	Blank Spike Duplicate
V7W437-MB	7W12293.D	01/31/25	13:55	03:35	Method Blank
ZZZZZZ	7W12294.D	01/31/25	14:38	04:18	(unrelated sample)
V7W437-SCC	7W12295.D	01/31/25	15:22	05:02	Summa Cleaning Certification
JE4785-1	7W12296.D	01/31/25	16:01	05:41	(used for QC only; not part of job JE5976)
JE4785-1DUP	7W12297.D	01/31/25	16:40	06:20	Duplicate
ZZZZZZ	7W12298.D	01/31/25	17:20	07:00	(unrelated sample)
ZZZZZZ	7W12299.D	01/31/25	18:00	07:40	(unrelated sample)
ZZZZZZ	7W12300.D	01/31/25	18:40	08:20	(unrelated sample)
V7W437-SCC	7W12301.D	01/31/25	19:23	09:03	Summa Cleaning Certification
ZZZZZZ	7W12302.D	01/31/25	20:03	09:43	(unrelated sample)
V7W437-SCC	7W12303.D	01/31/25	20:47	10:27	Summa Cleaning Certification
ZZZZZZ	7W12304.D	01/31/25	21:25	11:05	(unrelated sample)
ZZZZZZ	7W12305.D	01/31/25	22:04	11:44	(unrelated sample)
ZZZZZZ	7W12306.D	01/31/25	22:44	12:24	(unrelated sample)
ZZZZZZ	7W12308.D	02/01/25	00:02	13:42	(unrelated sample)
ZZZZZZ	7W12309.D	02/01/25	00:40	14:20	(unrelated sample)
ZZZZZZ	7W12310.D	02/01/25	01:18	14:58	(unrelated sample)
ZZZZZZ	7W12311.D	02/01/25	01:58	15:38	(unrelated sample)
ZZZZZZ	7W12312.D	02/01/25	02:38	16:18	(unrelated sample)
ZZZZZZ	7W12313.D	02/01/25	03:17	16:57	(unrelated sample)
ZZZZZZ	7W12314.D	02/01/25	03:56	17:36	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample:	V7W437-BFB	Injection Date:	01/31/25
Lab File ID:	7W12288.D	Injection Time:	10:20
Instrument ID:	GCMS7W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	7W12316.D	02/01/25	05:13	18:53	(unrelated sample)
ZZZZZZ	7W12317.D	02/01/25	05:51	19:31	(unrelated sample)
ZZZZZZ	7W12318.D	02/01/25	06:29	20:09	(unrelated sample)

6.5.10
6

Instrument Performance Check (BFB)

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W465-BFB	Injection Date: 03/06/25
Lab File ID: 7W13218.D	Injection Time: 11:52
Instrument ID: GCMS7W	

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance	Pass/Fail
50	8.0 - 40.0% of mass 95	23883	18.5	Pass
75	30.0 - 66.0% of mass 95	58043	44.9	Pass
95	Base peak, 100% relative abundance	129339	100.0	Pass
96	5.0 - 9.0% of mass 95	8554	6.61	Pass
173	Less than 2.0% of mass 174	286	0.22 (0.26) ^a	Pass
174	50.0 - 120.0% of mass 95	111891	86.5	Pass
175	4.0 - 9.01% of mass 174	7616	5.89 (6.81) ^a	Pass
176	93.0 - 101.0% of mass 174	105243	81.4 (94.1) ^a	Pass
177	5.0 - 9.0% of mass 176	6954	5.38 (6.61) ^b	Pass

(a) Value is % of mass 174

(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V7W465-CC405	7W13219.D	03/06/25	12:29	00:37	Continuing cal 10
V7W465-BS	7W13220.D	03/06/25	13:10	01:18	Blank Spike
V7W465-BSD	7W13221.D	03/06/25	13:47	01:55	Blank Spike Duplicate
V7W465-MB	7W13223.D	03/06/25	15:13	03:21	Method Blank
V7W465-SCC	7W13224.D	03/06/25	16:03	04:11	Summa Cleaning Certification
V7W465-SCC	7W13226.D	03/06/25	17:25	05:33	Summa Cleaning Certification
JE5976-2	7W13227.D	03/06/25	18:03	06:11	754020-SS-1-20250218
JE5976-2DUP	7W13228.D	03/06/25	18:42	06:50	Duplicate
V7W465-SCC	7W13229.D	03/06/25	19:25	07:33	Summa Cleaning Certification
ZZZZZZ	7W13232.D	03/06/25	21:22	09:30	(unrelated sample)
ZZZZZZ	7W13234.D	03/06/25	22:35	10:43	(unrelated sample)
JE5976-4	7W13238.D	03/07/25	01:12	13:20	754020-SS-2-20250218
JE5976-7	7W13239.D	03/07/25	01:50	13:58	754020-SS-3-20250218
JE5976-9	7W13240.D	03/07/25	02:29	14:37	754020-CS-4-20250218
JE5976-10	7W13241.D	03/07/25	03:13	15:21	754020-OA-1-2182025
JE5976-13	7W13242.D	03/07/25	03:52	16:00	754020-SS-5-20250218
JE5976-14	7W13243.D	03/07/25	04:32	16:40	754020-SS-6-20250218
ZZZZZZ	7W13244.D	03/07/25	05:11	17:19	(unrelated sample)
ZZZZZZ	7W13245.D	03/07/25	05:51	17:59	(unrelated sample)
ZZZZZZ	7W13246.D	03/07/25	06:31	18:39	(unrelated sample)
ZZZZZZ	7W13247.D	03/07/25	07:09	19:17	(unrelated sample)
ZZZZZZ	7W13249.D	03/07/25	08:29	20:37	(unrelated sample)
ZZZZZZ	7W13250.D	03/07/25	09:09	21:17	(unrelated sample)
ZZZZZZ	7W13251.D	03/07/25	09:53	22:01	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample:	V7W465-BFB	Injection Date:	03/06/25
Lab File ID:	7W13218.D	Injection Time:	11:52
Instrument ID:	GCMS7W		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	7W13252.D	03/07/25	10:30	22:38	(unrelated sample)

Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Check Std: V5W2165-CC2144	Injection Date: 01/30/25
Lab File ID: 5W56523.D	Injection Time: 12:42
Instrument ID: GCMS5W	Method: TO-15

	IS 1		IS 2		IS 3	
	AREA	RT	AREA	RT	AREA	RT
Check Std	422377	7.64	1833784	9.82	937311	15.33
Upper Limit ^a	591328	7.97	2567298	10.15	1312235	15.66
Lower Limit ^b	253426	7.31	1100270	9.49	562387	15.00

Lab Sample ID	IS 1		IS 2		IS 3	
	AREA	RT	AREA	RT	AREA	RT
V5W2165-BS	477170	7.64	2045175	9.82	998040	15.33
V5W2165-BSD	507825	7.64	2183590	9.82	1077130	15.33
V5W2165-MB	512942	7.64	2245450	9.81	964513	15.33
V5W2165-SCC	529374	7.64	2283944	9.81	963918	15.33
V5W2165-SCC	456209	7.64	1976631	9.81	889018	15.33
JE4766-1	437051	7.64	1940324	9.81	866491	15.33
JE4766-1DUP	431779	7.64	1910809	9.81	865551	15.33
ZZZZZZ	429100	7.64	1887195	9.81	841572	15.33
ZZZZZZ	389394	7.64	1772874	9.81	830556	15.33
ZZZZZZ	416426	7.64	1838404	9.82	855155	15.33
ZZZZZZ	417954	7.64	1848657	9.82	842237	15.33
ZZZZZZ	395929	7.64	1777811	9.82	822289	15.33

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.

(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Page 1 of 1

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Check Std:	V5W2193-CC2187	Injection Date:	03/03/25
Lab File ID:	5W57161.D	Injection Time:	13:00
Instrument ID:	GCMS5W	Method:	TO-15

	IS 1		IS 2		IS 3	
	AREA	RT	AREA	RT	AREA	RT
Check Std	353567	7.57	1606962	9.74	872956	15.25
Upper Limit ^a	494994	7.90	2249747	10.07	1222138	15.58
Lower Limit ^b	212140	7.24	964177	9.41	523774	14.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W2193-BS	365916	7.57	1666468	9.74	897676	15.25
V5W2193-BSD	368983	7.57	1671772	9.74	898522	15.25
V5W2193-MB	439489	7.57	2034935	9.73	945160	15.25
JE5976-1	378798	7.57	1804704	9.73	875389	15.25
JE5976-1DUP	384247	7.55	1808917	9.72	848996	15.24
ZZZZZZ	373336	7.56	1786052	9.73	866330	15.25
ZZZZZZ	373336	7.56	1786052	9.73	866330	15.25
ZZZZZZ	333437	7.56	1612860	9.72	786752	15.25

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
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Internal Standard Area Summary

Page 1 of 1

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Check Std: V5W2194-CC2187	Injection Date: 03/04/25
Lab File ID: 5W57175.D	Injection Time: 18:53
Instrument ID: GCMS5W	Method: TO-15

	IS 1		IS 2		IS 3	
	AREA	RT	AREA	RT	AREA	RT
Check Std	349523	7.56	1597208	9.73	861495	15.25
Upper Limit ^a	489332	7.89	2236091	10.06	1206093	15.58
Lower Limit ^b	209714	7.23	958325	9.40	516897	14.92

Lab Sample ID	IS 1		IS 2		IS 3	
	AREA	RT	AREA	RT	AREA	RT
V5W2194-BS	351640	7.56	1618109	9.73	876457	15.25
V5W2194-BSD	354027	7.56	1619106	9.73	876419	15.25
V5W2194-MB	433346	7.56	2010879	9.73	941641	15.25
JE5976-3	376024	7.55	1774348	9.72	846759	15.25
JE5976-3DUP	356468	7.55	1677790	9.72	795600	15.25
JE5976-5	329808	7.57	1602611	9.73	781011	15.25
JE5976-6	327224	7.58	1580945	9.74	776985	15.25
JE5976-8	332878	7.57	1609627	9.74	790931	15.25
JE5976-11	347310	7.57	1670690	9.73	830413	15.25
JE5976-12	352311	7.56	1715272	9.73	853633	15.25
JE5976-15	350118	7.57	1669747	9.74	815676	15.25
ZZZZZZ	338501	7.56	1629892	9.74	786977	15.25
ZZZZZZ	352772	7.57	1675091	9.73	808571	15.25
ZZZZZZ	347189	7.56	1637540	9.74	800545	15.25
ZZZZZZ	317327	7.56	1536136	9.74	749287	15.25
ZZZZZZ	316277	7.56	1531810	9.74	767047	15.25
ZZZZZZ	307770	7.56	1495775	9.74	743280	15.25
JE5976-5	321946	7.57	1509504	9.74	712796	15.25

IS 1 = Bromochloromethane
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Internal Standard Area Summary

Page 1 of 1

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Check Std: V5W2196-CC2187	Injection Date: 03/06/25
Lab File ID: 5W57222.D	Injection Time: 13:10
Instrument ID: GCMS5W	Method: TO-15

	IS 1		IS 2		IS 3	
	AREA	RT	AREA	RT	AREA	RT
Check Std	316683	7.57	1454309	9.74	767190	15.25
Upper Limit ^a	443356	7.90	2036033	10.07	1074066	15.58
Lower Limit ^b	190010	7.24	872585	9.41	460314	14.92

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V5W2196-BS	317690	7.56	1456664	9.74	772807	15.25
V5W2196-BSD	326434	7.57	1492419	9.74	792471	15.25
V5W2196-MB	390508	7.56	1814403	9.73	839511	15.25
ZZZZZZ	331720	7.56	1578948	9.74	758548	15.25
ZZZZZZ	318332	7.56	1526693	9.73	736095	15.25
JE5791-3	333716	7.57	1581598	9.74	771105	15.25
JE5791-3DUP	313999	7.57	1500827	9.73	726588	15.25
ZZZZZZ	318015	7.57	1486360	9.74	736052	15.25
ZZZZZZ	296747	7.57	1390522	9.74	667309	15.25
ZZZZZZ	289967	7.56	1376664	9.74	691155	15.25
ZZZZZZ	273101	7.57	1356675	9.74	602186	15.25
ZZZZZZ	288456	7.56	1389992	9.73	664451	15.25
ZZZZZZ	309295	7.57	1484200	9.74	721742	15.25
ZZZZZZ	288535	7.56	1409699	9.73	657412	15.25
ZZZZZZ	302403	7.57	1433530	9.74	684092	15.25
JE5976-6	319620	7.57	1483548	9.73	676424	15.25
ZZZZZZ	281455	7.56	1331506	9.73	646152	15.25
ZZZZZZ	298031	7.56	1374033	9.74	689383	15.25
ZZZZZZ	289977	7.57	1366510	9.73	672314	15.25
ZZZZZZ	306124	7.56	1440757	9.73	699351	15.25
ZZZZZZ	278041	7.57	1346877	9.73	674335	15.25
ZZZZZZ	307733	7.56	1438933	9.73	694393	15.25

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.

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Internal Standard Area Summary

Page 1 of 1

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Check Std: V7W425-CC405	Injection Date: 01/18/25
Lab File ID: 7W11898.D	Injection Time: 23:57
Instrument ID: GCMS7W	Method: TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	109011	3.23	551030	4.50	511965	10.04
Upper Limit ^a	152615	3.56	771442	4.83	716751	10.37
Lower Limit ^b	65407	2.90	330618	4.17	307179	9.71

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W425-BS	109782	3.23	554508	4.50	518516	10.04
V7W425-BSD	110190	3.23	556365	4.50	516949	10.03
V7W425-MB	113767	3.23	580074	4.50	529826	10.03
V7W425-SCC	113356	3.24	575424	4.51	531182	10.04
V7W425-SCC	109858	3.23	556217	4.50	510139	10.03
ZZZZZZ	111368	3.24	567910	4.50	513240	10.04
ZZZZZZ	108737	3.23	550020	4.50	498459	10.03
JE3878-3	107026	3.23	543978	4.49	492639	10.04
JE3878-3DUP	106584	3.23	542095	4.50	496171	10.04
ZZZZZZ	102023	3.23	523795	4.50	482165	10.04
ZZZZZZ	106115	3.23	538139	4.50	487873	10.03
ZZZZZZ	101335	3.23	524492	4.50	483368	10.03
ZZZZZZ	106254	3.23	537338	4.50	489019	10.03
ZZZZZZ	114600	3.23	582563	4.50	526592	10.03
ZZZZZZ	91361	3.23	522979	4.50	480890	10.03
ZZZZZZ	104348	3.23	532633	4.50	490604	10.03
ZZZZZZ	88840	3.23	507600	4.50	462669	10.03
ZZZZZZ	104960	3.23	534497	4.50	485454	10.03
ZZZZZZ	103596	3.23	532713	4.50	484811	10.03
ZZZZZZ	104910	3.24	529178	4.51	479562	10.04
ZZZZZZ	105602	3.24	536224	4.51	487158	10.04
ZZZZZZ	105570	3.24	538542	4.51	487850	10.04
ZZZZZZ	105189	3.24	532236	4.51	485293	10.04
ZZZZZZ	103785	3.23	523741	4.50	478164	10.03
ZZZZZZ	104474	3.24	530657	4.51	472680	10.04
ZZZZZZ	103592	3.24	522416	4.51	474475	10.04
ZZZZZZ	104183	3.24	525347	4.50	472489	10.04

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Page 1 of 1

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Check Std:	V7W437-CC405	Injection Date:	01/31/25
Lab File ID:	7W12289.D	Injection Time:	10:58
Instrument ID:	GCMS7W	Method:	TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	122965	3.23	621851	4.50	583230	10.03
Upper Limit ^a	172151	3.56	870591	4.83	816522	10.36
Lower Limit ^b	73779	2.90	373111	4.17	349938	9.70

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W437-BS	128223	3.23	646372	4.50	604995	10.04
V7W437-BSD	129038	3.23	653386	4.50	612403	10.03
V7W437-MB	127510	3.23	653339	4.50	587636	10.03
ZZZZZZ	126000	3.24	616527	4.51	562561	10.04
V7W437-SCC	124567	3.23	641654	4.50	585566	10.03
JE4785-1	123703	3.24	629936	4.51	575802	10.04
JE4785-1DUP	123399	3.24	624314	4.50	572504	10.04
ZZZZZZ	120584	3.24	613486	4.51	559167	10.04
ZZZZZZ	122837	3.23	628077	4.50	572826	10.03
ZZZZZZ	123821	3.23	634151	4.50	580774	10.04
V7W437-SCC	128193	3.23	651190	4.50	592171	10.03
ZZZZZZ	122953	3.24	623550	4.51	571327	10.04
V7W437-SCC	125817	3.23	639772	4.50	580071	10.03
ZZZZZZ	125078	3.24	629623	4.51	582260	10.04
ZZZZZZ	124438	3.24	623232	4.51	577323	10.04
ZZZZZZ	123234	3.24	624248	4.51	586285	10.04
ZZZZZZ	125014	3.24	629338	4.51	573124	10.04
ZZZZZZ	127856	3.24	644832	4.51	592018	10.04
ZZZZZZ	125427	3.24	622875	4.51	581309	10.04
ZZZZZZ	123403	3.24	618876	4.51	570116	10.04
ZZZZZZ	118721	3.25	610325	4.51	559577	10.04
ZZZZZZ	121292	3.24	612489	4.51	546804	10.04
ZZZZZZ	119480	3.24	611841	4.51	558669	10.04
ZZZZZZ	117875	3.24	598480	4.51	547428	10.04
ZZZZZZ	117372	3.24	594675	4.51	544891	10.04
ZZZZZZ	123690	3.24	620436	4.51	560358	10.04

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Internal Standard Area Summary

Page 1 of 1

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Check Std: V7W465-CC405	Injection Date: 03/06/25
Lab File ID: 7W13219.D	Injection Time: 12:29
Instrument ID: GCMS7W	Method: TO-15

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Check Std	132830	3.23	636524	4.50	594247	10.04
Upper Limit ^a	185962	3.56	891134	4.83	831946	10.37
Lower Limit ^b	79698	2.90	381914	4.17	356548	9.71

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V7W465-BS	133739	3.23	639819	4.50	599747	10.04
V7W465-BSD	133222	3.23	637579	4.50	600207	10.04
V7W465-MB	137884	3.23	669600	4.50	608083	10.04
V7W465-SCC	136349	3.23	663311	4.50	600822	10.03
V7W465-SCC	135496	3.23	660044	4.50	591533	10.03
JE5976-2	132613	3.24	647805	4.50	603016	10.03
JE5976-2DUP	132097	3.23	642936	4.50	589814	10.03
V7W465-SCC	137679	3.23	666161	4.50	599765	10.03
ZZZZZZ	138419	3.24	662494	4.51	620966	10.04
ZZZZZZ	136127	3.24	656206	4.51	616257	10.04
JE5976-4	131834	3.23	634064	4.50	587464	10.03
JE5976-7	130416	3.23	626806	4.50	583760	10.03
JE5976-9	135908	3.23	654690	4.50	599945	10.03
JE5976-10	133255	3.23	641103	4.50	589082	10.03
JE5976-13	128495	3.23	628145	4.50	580181	10.03
JE5976-14	129963	3.23	704236	4.53	671809	10.05
ZZZZZZ	130369	3.25	636058	4.51	595658	10.04
ZZZZZZ	136575	3.24	654401	4.51	594078	10.04
ZZZZZZ	138918	3.24	658988	4.51	603914	10.04
ZZZZZZ	133375	3.24	639732	4.51	574507	10.04
ZZZZZZ	82177	3.24	719053	4.54	663228	10.05
ZZZZZZ	133153	3.24	633240	4.51	580097	10.04
ZZZZZZ	123872	3.24	609162	4.51	572021	10.04
ZZZZZZ	129230	3.24	621816	4.51	563736	10.04

IS 1 = Bromochloromethane
IS 2 = 1,4-Difluorobenzene
IS 3 = Chlorobenzene-D5

(a) Upper Limit = + 40% of check standard area; Retention time + 0.33 minutes.
(b) Lower Limit = -40% of check standard area; Retention time -0.33 minutes.

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15	Reporting this level
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15	
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15	
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15	
V5W2144-IC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15	
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15	
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15	
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15	
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acrylonitrile	5.21	7.64	0.682 ok	0.679	0.619-0.739
1,3-Butadiene	4.00	7.64	0.524 ok	0.524	0.464-0.584
Benzene	9.39	9.82	0.956 ok	0.956	0.896-1.016
Bromobenzene	17.93	15.33	1.170 ok	1.168	1.108-1.228
Bromodichloromethane	10.59	9.82	1.078 ok	1.078	1.018-1.138
Bromoform	16.31	15.33	1.064 ok	1.062	1.002-1.122
Bromomethane	4.21	7.64	0.551 ok	0.550	0.490-0.610
Bromoethene	4.60	7.64	0.602 ok	0.601	0.541-0.661
n-Butane	4.04	7.64	0.529 ok	0.529	0.469-0.589
Carbon disulfide	5.83	7.64	0.763 ok	0.762	0.702-0.822
Chlorobenzene	15.41	15.33	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.55	7.64	0.465 ok	0.465	0.405-0.525
Chloroethane	4.33	7.64	0.567 ok	0.566	0.506-0.626
Chlorotrifluoroethene	3.58	7.64	0.469 ok	0.469	0.409-0.529
Chloroform	7.79	7.64	1.020 ok	1.019	0.959-1.079
Chloromethane	3.75	7.64	0.491 ok	0.490	0.430-0.550
3-Chloropropene	5.67	7.64	0.742 ok	0.741	0.681-0.801
Carbon tetrachloride	9.55	7.64	1.250 ok	1.248	1.188-1.308
Cyclohexane	9.68	9.82	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.62	7.64	0.866 ok	0.867	0.807-0.927
1,1-Dichloroethylene	5.45	7.64	0.713 ok	0.714	0.654-0.774
1,2-Dibromoethane (EDB)	13.85	15.33	0.903 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.60	7.64	1.126 ok	1.123	1.063-1.183
1,2-Dichloropropane	10.35	9.82	1.054 ok	1.054	0.994-1.114
1,3-Dichloropropane	13.02	9.82	1.326 ok	1.324	1.264-1.384
Dichlorodifluoromethane	3.63	7.64	0.475 ok	0.475	0.415-0.535
Dichlorofluoromethane	4.40	7.64	0.576 ok	0.575	0.515-0.635
Dibromochloromethane	13.51	15.33	0.881 ok	0.881	0.821-0.941
Dibromomethane	10.33	9.82	1.052 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	6.43	7.64	0.842 ok	0.841	0.781-0.901
cis-1,2-Dichloroethylene	7.49	7.64	0.980 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	11.74	9.82	1.196 ok	1.194	1.134-1.254
m-Dichlorobenzene	19.84	15.33	1.294 ok	1.292	1.232-1.352
o-Dichlorobenzene	20.42	15.33	1.332 ok	1.331	1.271-1.391
p-Dichlorobenzene	19.95	15.33	1.301 ok	1.299	1.239-1.359
2,3-Dimethylpentane	9.98	9.82	1.016 ok	1.017	0.957-1.077
2,4-Dimethylpentane	8.65	7.64	1.132 ok	1.131	1.071-1.191
Ethylbenzene	15.98	15.33	1.042 ok	1.041	0.981-1.101
Freon 113	5.80	7.64	0.759 ok	0.758	0.698-0.818

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15	Reporting this level
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15	
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15	
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15	
V5W2144-IC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15	
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15	
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15	
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15	
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Freon 114	3.81	7.64	0.499 ok	0.499	0.439-0.559
Freon 123	4.71	7.64	0.616 ok	0.616	0.556-0.676
Freon 123A	4.75	7.64	0.622 ok	0.622	0.562-0.682
Freon 142B	3.74	7.64	0.490 ok	0.489	0.429-0.549
Freon 152A	3.52	7.64	0.461 ok	0.461	0.401-0.521
Heptane	11.03	9.82	1.123 ok	1.122	1.062-1.182
Hexachlorobutadiene	23.37	15.33	1.524 ok	1.524	1.464-1.584
Hexachloroethane	21.32	15.33	1.391 ok	1.390	1.330-1.450
Hexane	7.68	7.64	1.005 ok	1.005	0.945-1.065
Iodomethane	5.39	7.64	0.705 ok	0.705	0.645-0.765
Isopropylbenzene	17.82	15.33	1.162 ok	1.162	1.102-1.222
Methylene chloride	5.58	7.64	0.730 ok	0.728	0.668-0.788
Methyl Tert Butyl Ether	6.77	7.64	0.886 ok	0.878	0.818-0.938
Naphthalene	22.91	15.33	1.494 ok	1.493	1.433-1.553
Nonane	17.31	15.33	1.129 ok	1.128	1.068-1.188
Octane	14.33	15.33	0.935 ok	0.934	0.874-0.994
Pentane	5.22	7.64	0.683 ok	0.681	0.621-0.741
n-Propylbenzene	18.66	15.33	1.217 ok	1.215	1.155-1.275
1,1,1-Trichloroethane	8.86	7.64	1.160 ok	1.158	1.098-1.218
1,1,1,2-Tetrachloroethane	15.39	15.33	1.004 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.93	15.33	1.104 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.62	9.82	1.285 ok	1.284	1.224-1.344
1,2,4-Trichlorobenzene	23.24	15.33	1.516 ok	1.515	1.455-1.575
1,2,3-Trichloropropane	17.12	15.33	1.117 ok	1.115	1.055-1.175
1,2,3-Trimethylbenzene	20.25	15.33	1.321 ok	1.319	1.259-1.379
1,3,5-Trimethylbenzene	19.02	15.33	1.241 ok	1.240	1.180-1.300
2,2,4-Trimethylpentane	10.67	9.82	1.087 ok	1.087	1.027-1.147
Tertiary Butyl Alcohol	5.63	7.64	0.737 ok	0.727	0.667-0.787
Tetrachloroethylene	14.47	15.33	0.944 ok	0.943	0.883-1.003
Toluene	12.97	9.82	1.321 ok	1.319	1.259-1.379
Trichloroethylene	10.64	9.82	1.084 ok	1.083	1.023-1.143
Trichlorofluoromethane	4.92	7.64	0.644 ok	0.643	0.583-0.703
Vinyl chloride	3.91	7.64	0.512 ok	0.511	0.451-0.571
m,p-Xylene	16.25	15.33	1.060 ok	1.058	0.998-1.118
o-Xylene	16.91	15.33	1.103 ok	1.102	1.042-1.162

Initial Calibration Retention Time/Internal Standard Area Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15	Reporting this level
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15	
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15	
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15	
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15	
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15	
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15	
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15	
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15	

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.64 ok	7.65	7.32-7.98	443022 ok	443667	266200-621134
1,4-Difluorobenzene	9.82 ok	9.82	9.49-10.15	1966418 ok	1887207	1132324-2642090
Chlorobenzene-D5	15.33 ok	15.34	15.01-15.67	923193 ok	1019287	611572-1427002

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acrylonitrile	5.20	7.64	0.681 ok	0.679	0.619-0.739
Acetonitrile	4.62	7.64	0.605 ok	0.602	0.542-0.662
1,3-Butadiene	4.00	7.64	0.524 ok	0.524	0.464-0.584
Benzene	9.39	9.82	0.956 ok	0.956	0.896-1.016
Bromobenzene	17.91	15.33	1.168 ok	1.168	1.108-1.228
Bromodichloromethane	10.59	9.82	1.078 ok	1.078	1.018-1.138
Bromoform	16.30	15.33	1.063 ok	1.062	1.002-1.122
Bromomethane	4.21	7.64	0.551 ok	0.550	0.490-0.610
Bromoethene	4.59	7.64	0.601 ok	0.601	0.541-0.661
n-Butane	4.04	7.64	0.529 ok	0.529	0.469-0.589
n-Butylbenzene	20.86	15.33	1.361 ok	1.360	1.300-1.420
sec-Butylbenzene	20.02	15.33	1.306 ok	1.305	1.245-1.365
tert-Butylbenzene	19.61	15.33	1.279 ok	1.279	1.219-1.339
Carbon disulfide	5.83	7.64	0.763 ok	0.762	0.702-0.822
Chlorobenzene	15.40	15.33	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.56	7.64	0.466 ok	0.465	0.405-0.525
Chloroethane	4.33	7.64	0.567 ok	0.566	0.506-0.626
Chlorotrifluoroethene	3.58	7.64	0.469 ok	0.469	0.409-0.529
Chloroform	7.79	7.64	1.020 ok	1.019	0.959-1.079
Chloromethane	3.75	7.64	0.491 ok	0.490	0.430-0.550
3-Chloropropene	5.67	7.64	0.742 ok	0.741	0.681-0.801
2-Chlorotoluene	18.56	15.33	1.211 ok	1.209	1.149-1.269
Carbon tetrachloride	9.55	7.64	1.250 ok	1.248	1.188-1.308
Cyclohexane	9.68	9.82	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.63	7.64	0.868 ok	0.867	0.807-0.927
1,1-Dichloroethylene	5.45	7.64	0.713 ok	0.714	0.654-0.774
1,2-Dibromoethane (EDB)	13.83	15.33	0.902 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.59	7.64	1.124 ok	1.123	1.063-1.183
1,2-Dichloropropane	10.36	9.82	1.055 ok	1.054	0.994-1.114
1,3-Dichloropropane	13.02	9.82	1.326 ok	1.324	1.264-1.384
1,4-Dioxane	10.78	9.82	1.098 ok	1.089	1.029-1.149
Dichlorodifluoromethane	3.63	7.64	0.475 ok	0.475	0.415-0.535
Dichlorofluoromethane	4.40	7.64	0.576 ok	0.575	0.515-0.635
Dibromochloromethane	13.51	15.33	0.881 ok	0.881	0.821-0.941
Dibromomethane	10.32	9.82	1.051 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	6.44	7.64	0.843 ok	0.841	0.781-0.901
cis-1,2-Dichloroethylene	7.48	7.64	0.979 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	11.74	9.82	1.196 ok	1.194	1.134-1.254
m-Dichlorobenzene	19.83	15.33	1.294 ok	1.292	1.232-1.352

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
o-Dichlorobenzene	20.41	15.33	1.331 ok	1.331	1.271-1.391
p-Dichlorobenzene	19.94	15.33	1.301 ok	1.299	1.239-1.359
trans-1,3-Dichloropropene	12.43	9.82	1.266 ok	1.263	1.203-1.323
Di-Isopropyl ether	7.74	7.64	1.013 ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.99	9.82	1.017 ok	1.017	0.957-1.077
2,4-Dimethylpentane	8.65	7.64	1.132 ok	1.131	1.071-1.191
Ethylbenzene	15.96	15.33	1.041 ok	1.041	0.981-1.101
4-Ethyltoluene	18.89	15.33	1.232 ok	1.231	1.171-1.291
Freon 113	5.79	7.64	0.758 ok	0.758	0.698-0.818
Freon 114	3.82	7.64	0.500 ok	0.499	0.439-0.559
Freon 123	4.71	7.64	0.616 ok	0.616	0.556-0.676
Freon 123A	4.75	7.64	0.622 ok	0.622	0.562-0.682
Freon 142B	3.74	7.64	0.490 ok	0.489	0.429-0.549
Freon 152A	3.53	7.64	0.462 ok	0.461	0.401-0.521
Heptane	11.02	9.82	1.122 ok	1.122	1.062-1.182
Hexachlorobutadiene	23.37	15.33	1.524 ok	1.524	1.464-1.584
Hexachloroethane	21.32	15.33	1.391 ok	1.390	1.330-1.450
Hexane	7.69	7.64	1.007 ok	1.005	0.945-1.065
Iodomethane	5.39	7.64	0.705 ok	0.705	0.645-0.765
Isopropylbenzene	17.82	15.33	1.162 ok	1.162	1.102-1.222
p-Isopropyltoluene	20.27	15.33	1.322 ok	1.321	1.261-1.381
Methylene chloride	5.56	7.64	0.728 ok	0.728	0.668-0.788
Methyl ethyl ketone	7.16	7.64	0.937 ok	0.924	0.864-0.984
Methyl Tert Butyl Ether	6.75	7.64	0.884 ok	0.878	0.818-0.938
Methylmethacrylate	11.01	9.82	1.121 ok	1.115	1.055-1.175
Naphthalene	22.90	15.33	1.494 ok	1.493	1.433-1.553
Nonane	17.30	15.33	1.129 ok	1.128	1.068-1.188
Octane	14.33	15.33	0.935 ok	0.934	0.874-0.994
Pentane	5.21	7.64	0.682 ok	0.681	0.621-0.741
n-Propylbenzene	18.66	15.33	1.217 ok	1.215	1.155-1.275
Propylene	3.58	7.64	0.469 ok	0.468	0.408-0.528
Styrene	16.78	15.33	1.095 ok	1.093	1.033-1.153
1,1,1-Trichloroethane	8.86	7.64	1.160 ok	1.158	1.098-1.218
1,1,1,2-Tetrachloroethane	15.38	15.33	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.91	15.33	1.103 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.62	9.82	1.285 ok	1.284	1.224-1.344
1,2,4-Trichlorobenzene	23.23	15.33	1.515 ok	1.515	1.455-1.575
1,2,3-Trichloropropane	17.11	15.33	1.116 ok	1.115	1.055-1.175
1,2,3-Trimethylbenzene	20.24	15.33	1.320 ok	1.319	1.259-1.379

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Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-IC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,2,4-Trimethylbenzene	19.64	15.33	1.281 ok	1.280	1.220-1.340
1,3,5-Trimethylbenzene	19.02	15.33	1.241 ok	1.240	1.180-1.300
2,2,4-Trimethylpentane	10.67	9.82	1.087 ok	1.087	1.027-1.147
Tertiary Butyl Alcohol	5.61	7.64	0.734 ok	0.727	0.667-0.787
Tetrachloroethylene	14.47	15.33	0.944 ok	0.943	0.883-1.003
Tetrahydrofuran	8.34	7.64	1.092 ok	1.079	1.019-1.139
Toluene	12.97	9.82	1.321 ok	1.319	1.259-1.379
Trichloroethylene	10.64	9.82	1.084 ok	1.083	1.023-1.143
Trichlorofluoromethane	4.92	7.64	0.644 ok	0.643	0.583-0.703
Vinyl chloride	3.91	7.64	0.512 ok	0.511	0.451-0.571
m,p-Xylene	16.25	15.33	1.060 ok	1.058	0.998-1.118
o-Xylene	16.91	15.33	1.103 ok	1.102	1.042-1.162

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.64 ok	7.65	7.32-7.98	433255 ok	443667	266200-621134
1,4-Difluorobenzene	9.82 ok	9.82	9.49-10.15	1918380 ok	1887207	1132324-2642090
Chlorobenzene-D5	15.33 ok	15.34	15.01-15.67	901402 ok	1019287	611572-1427002

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Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.84	7.65	0.633 ok	0.629	0.569-0.689
Acrolein	4.72	7.65	0.617 ok	0.614	0.554-0.674
Acrylonitrile	5.22	7.65	0.682 ok	0.679	0.619-0.739
Acetonitrile	4.63	7.65	0.605 ok	0.602	0.542-0.662
1,3-Butadiene	4.02	7.65	0.525 ok	0.524	0.464-0.584
Benzene	9.39	9.82	0.956 ok	0.956	0.896-1.016
Bromobenzene	17.92	15.33	1.169 ok	1.168	1.108-1.228
Bromodichloromethane	10.59	9.82	1.078 ok	1.078	1.018-1.138
Bromoform	16.30	15.33	1.063 ok	1.062	1.002-1.122
Bromomethane	4.22	7.65	0.552 ok	0.550	0.490-0.610
Bromoethene	4.60	7.65	0.601 ok	0.601	0.541-0.661
n-Butane	4.05	7.65	0.529 ok	0.529	0.469-0.589
Benzyl Chloride	19.82	15.33	1.293 ok	1.292	1.232-1.352
n-Butylbenzene	20.86	15.33	1.361 ok	1.360	1.300-1.420
sec-Butylbenzene	20.01	15.33	1.305 ok	1.305	1.245-1.365
tert-Butylbenzene	19.61	15.33	1.279 ok	1.279	1.219-1.339
Carbon disulfide	5.84	7.65	0.763 ok	0.762	0.702-0.822
Chlorobenzene	15.40	15.33	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.57	7.65	0.467 ok	0.465	0.405-0.525
Chloroethane	4.34	7.65	0.567 ok	0.566	0.506-0.626
Chlorotrifluoroethene	3.59	7.65	0.469 ok	0.469	0.409-0.529
Chloroform	7.80	7.65	1.020 ok	1.019	0.959-1.079
Chloromethane	3.76	7.65	0.492 ok	0.490	0.430-0.550
3-Chloropropene	5.68	7.65	0.742 ok	0.741	0.681-0.801
2-Chlorotoluene	18.55	15.33	1.210 ok	1.209	1.149-1.269
Carbon tetrachloride	9.55	7.65	1.248 ok	1.248	1.188-1.308
Cyclohexane	9.68	9.82	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.64	7.65	0.868 ok	0.867	0.807-0.927
1,1-Dichloroethylene	5.47	7.65	0.715 ok	0.714	0.654-0.774
1,2-Dibromoethane (EDB)	13.83	15.33	0.902 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.60	7.65	1.124 ok	1.123	1.063-1.183
1,2-Dichloropropane	10.35	9.82	1.054 ok	1.054	0.994-1.114
1,3-Dichloropropane	13.02	9.82	1.326 ok	1.324	1.264-1.384
1,4-Dioxane	10.76	9.82	1.096 ok	1.089	1.029-1.149
Dichlorodifluoromethane	3.64	7.65	0.476 ok	0.475	0.415-0.535
Dichlorofluoromethane	4.41	7.65	0.576 ok	0.575	0.515-0.635
Dibromochloromethane	13.51	15.33	0.881 ok	0.881	0.821-0.941
Dibromomethane	10.33	9.82	1.052 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	6.43	7.65	0.841 ok	0.841	0.781-0.901

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.49	7.65	0.979 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	11.73	9.82	1.195 ok	1.194	1.134-1.254
m-Dichlorobenzene	19.83	15.33	1.294 ok	1.292	1.232-1.352
o-Dichlorobenzene	20.41	15.33	1.331 ok	1.331	1.271-1.391
p-Dichlorobenzene	19.93	15.33	1.300 ok	1.299	1.239-1.359
trans-1,3-Dichloropropene	12.42	9.82	1.265 ok	1.263	1.203-1.323
Di-Isopropyl ether	7.75	7.65	1.013 ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.99	9.82	1.017 ok	1.017	0.957-1.077
2,4-Dimethylpentane	8.65	7.65	1.131 ok	1.131	1.071-1.191
Ethylbenzene	15.96	15.33	1.041 ok	1.041	0.981-1.101
Ethyl Acetate	7.80	7.65	1.020 ok	1.012	0.952-1.072
Ethyl Acrylate	10.48	9.82	1.067 ok	1.061	1.001-1.121
4-Ethyltoluene	18.88	15.33	1.232 ok	1.231	1.171-1.291
Freon 113	5.81	7.65	0.759 ok	0.758	0.698-0.818
Freon 114	3.83	7.65	0.501 ok	0.499	0.439-0.559
Freon 123	4.72	7.65	0.617 ok	0.616	0.556-0.676
Freon 123A	4.76	7.65	0.622 ok	0.622	0.562-0.682
Freon 142B	3.74	7.65	0.489 ok	0.489	0.429-0.549
Freon 152A	3.53	7.65	0.461 ok	0.461	0.401-0.521
Heptane	11.02	9.82	1.122 ok	1.122	1.062-1.182
Hexachlorobutadiene	23.37	15.33	1.524 ok	1.524	1.464-1.584
Hexachloroethane	21.32	15.33	1.391 ok	1.390	1.330-1.450
Hexane	7.69	7.65	1.005 ok	1.005	0.945-1.065
2-Hexanone	13.44	15.33	0.877 ok	0.872	0.812-0.932
Iodomethane	5.41	7.65	0.707 ok	0.705	0.645-0.765
Isopropylbenzene	17.81	15.33	1.162 ok	1.162	1.102-1.222
Isopropyl Alcohol	5.06	7.65	0.661 ok	0.656	0.596-0.716
p-Isopropyltoluene	20.27	15.33	1.322 ok	1.321	1.261-1.381
Methylene chloride	5.58	7.65	0.729 ok	0.728	0.668-0.788
Methyl ethyl ketone	7.12	7.65	0.931 ok	0.924	0.864-0.984
Methyl Isobutyl Ketone	11.86	9.82	1.208 ok	1.201	1.141-1.261
Methyl Tert Butyl Ether	6.75	7.65	0.882 ok	0.878	0.818-0.938
Methylmethacrylate	10.98	9.82	1.118 ok	1.115	1.055-1.175
Naphthalene	22.90	15.33	1.494 ok	1.493	1.433-1.553
Nonane	17.30	15.33	1.129 ok	1.128	1.068-1.188
Octane	14.33	15.33	0.935 ok	0.934	0.874-0.994
Pentane	5.22	7.65	0.682 ok	0.681	0.621-0.741
n-Propylbenzene	18.64	15.33	1.216 ok	1.215	1.155-1.275
Propylene	3.59	7.65	0.469 ok	0.468	0.408-0.528

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-IC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Styrene	16.77	15.33	1.094 ok	1.093	1.033-1.153
1,1,1-Trichloroethane	8.86	7.65	1.158 ok	1.158	1.098-1.218
1,1,1,2-Tetrachloroethane	15.39	15.33	1.004 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.91	15.33	1.103 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.62	9.82	1.285 ok	1.284	1.224-1.344
1,2,4-Trichlorobenzene	23.23	15.33	1.515 ok	1.515	1.455-1.575
1,2,3-Trichloropropane	17.10	15.33	1.115 ok	1.115	1.055-1.175
1,2,3-Trimethylbenzene	20.24	15.33	1.320 ok	1.319	1.259-1.379
1,2,4-Trimethylbenzene	19.63	15.33	1.280 ok	1.280	1.220-1.340
1,3,5-Trimethylbenzene	19.02	15.33	1.241 ok	1.240	1.180-1.300
2,2,4-Trimethylpentane	10.67	9.82	1.087 ok	1.087	1.027-1.147
Tertiary Butyl Alcohol	5.61	7.65	0.733 ok	0.727	0.667-0.787
Tetrachloroethylene	14.46	15.33	0.943 ok	0.943	0.883-1.003
Tetrahydrofuran	8.32	7.65	1.088 ok	1.079	1.019-1.139
Toluene	12.96	9.82	1.320 ok	1.319	1.259-1.379
Trichloroethylene	10.64	9.82	1.084 ok	1.083	1.023-1.143
Trichlorofluoromethane	4.93	7.65	0.644 ok	0.643	0.583-0.703
Vinyl chloride	3.92	7.65	0.512 ok	0.511	0.451-0.571
Vinyl Acetate	6.82	7.65	0.892 ok	0.888	0.828-0.948
m,p-Xylene	16.23	15.33	1.059 ok	1.058	0.998-1.118
o-Xylene	16.90	15.33	1.102 ok	1.102	1.042-1.162
TVHC As Equiv Pentane	5.22	15.33	0.341 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.65 ok	7.65	7.32-7.98	430146	ok 443667	266200-621134
1,4-Difluorobenzene	9.82 ok	9.82	9.49-10.15	1898537	ok 1887207	1132324-2642090
Chlorobenzene-D5	15.33 ok	15.34	15.01-15.67	894261	ok 1019287	611572-1427002

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15 Reporting this level
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.81	7.65	0.629 ok	0.629	0.569-0.689
Acrolein	4.70	7.65	0.614 ok	0.614	0.554-0.674
Acrylonitrile	5.19	7.65	0.678 ok	0.679	0.619-0.739
Acetonitrile	4.60	7.65	0.601 ok	0.602	0.542-0.662
1,3-Butadiene	4.01	7.65	0.524 ok	0.524	0.464-0.584
Benzene	9.38	9.82	0.955 ok	0.956	0.896-1.016
Bromobenzene	17.90	15.34	1.167 ok	1.168	1.108-1.228
Bromodichloromethane	10.59	9.82	1.078 ok	1.078	1.018-1.138
Bromoform	16.28	15.34	1.061 ok	1.062	1.002-1.122
Bromomethane	4.21	7.65	0.550 ok	0.550	0.490-0.610
Bromoethene	4.60	7.65	0.601 ok	0.601	0.541-0.661
n-Butane	4.04	7.65	0.528 ok	0.529	0.469-0.589
Benzyl Chloride	19.81	15.34	1.291 ok	1.292	1.232-1.352
n-Butylbenzene	20.85	15.34	1.359 ok	1.360	1.300-1.420
sec-Butylbenzene	20.01	15.34	1.304 ok	1.305	1.245-1.365
tert-Butylbenzene	19.60	15.34	1.278 ok	1.279	1.219-1.339
Carbon disulfide	5.83	7.65	0.762 ok	0.762	0.702-0.822
Chlorobenzene	15.40	15.34	1.004 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.56	7.65	0.465 ok	0.465	0.405-0.525
Chloroethane	4.33	7.65	0.566 ok	0.566	0.506-0.626
Chlorotrifluoroethene	3.59	7.65	0.469 ok	0.469	0.409-0.529
Chloroform	7.79	7.65	1.018 ok	1.019	0.959-1.079
Chloromethane	3.75	7.65	0.490 ok	0.490	0.430-0.550
3-Chloropropene	5.67	7.65	0.741 ok	0.741	0.681-0.801
2-Chlorotoluene	18.54	15.34	1.209 ok	1.209	1.149-1.269
Carbon tetrachloride	9.55	7.65	1.248 ok	1.248	1.188-1.308
Cyclohexane	9.68	9.82	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.63	7.65	0.867 ok	0.867	0.807-0.927
1,1-Dichloroethylene	5.46	7.65	0.714 ok	0.714	0.654-0.774
1,2-Dibromoethane (EDB)	13.81	15.34	0.900 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.59	7.65	1.123 ok	1.123	1.063-1.183
1,2-Dichloropropane	10.35	9.82	1.054 ok	1.054	0.994-1.114
1,3-Dichloropropane	13.00	9.82	1.324 ok	1.324	1.264-1.384
1,4-Dioxane	10.67	9.82	1.087 ok	1.089	1.029-1.149
Dichlorodifluoromethane	3.63	7.65	0.475 ok	0.475	0.415-0.535
Dichlorofluoromethane	4.40	7.65	0.575 ok	0.575	0.515-0.635
Dibromochloromethane	13.50	15.34	0.880 ok	0.881	0.821-0.941
Dibromomethane	10.32	9.82	1.051 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	6.43	7.65	0.841 ok	0.841	0.781-0.901

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15 Reporting this level
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.48	7.65	0.978	ok 0.978	0.918-1.038
cis-1,3-Dichloropropene	11.72	9.82	1.193	ok 1.194	1.134-1.254
m-Dichlorobenzene	19.81	15.34	1.291	ok 1.292	1.232-1.352
o-Dichlorobenzene	20.40	15.34	1.330	ok 1.331	1.271-1.391
p-Dichlorobenzene	19.92	15.34	1.299	ok 1.299	1.239-1.359
trans-1,3-Dichloropropene	12.40	9.82	1.263	ok 1.263	1.203-1.323
Di-Isopropyl ether	7.70	7.65	1.007	ok 1.008	0.948-1.068
2,3-Dimethylpentane	9.98	9.82	1.016	ok 1.017	0.957-1.077
2,4-Dimethylpentane	8.65	7.65	1.131	ok 1.131	1.071-1.191
Ethanol	4.43	7.65	0.579	ok 0.579	0.519-0.639
Ethylbenzene	15.95	15.34	1.040	ok 1.041	0.981-1.101
Ethyl Acetate	7.74	7.65	1.012	ok 1.012	0.952-1.072
Ethyl Acrylate	10.40	9.82	1.059	ok 1.061	1.001-1.121
4-Ethyltoluene	18.88	15.34	1.231	ok 1.231	1.171-1.291
Freon 113	5.80	7.65	0.758	ok 0.758	0.698-0.818
Freon 114	3.82	7.65	0.499	ok 0.499	0.439-0.559
Freon 123	4.71	7.65	0.616	ok 0.616	0.556-0.676
Freon 123A	4.76	7.65	0.622	ok 0.622	0.562-0.682
Freon 142B	3.74	7.65	0.489	ok 0.489	0.429-0.549
Freon 152A	3.53	7.65	0.461	ok 0.461	0.401-0.521
Heptane	11.02	9.82	1.122	ok 1.122	1.062-1.182
Hexachlorobutadiene	23.37	15.34	1.523	ok 1.524	1.464-1.584
Hexachloroethane	21.31	15.34	1.389	ok 1.390	1.330-1.450
Hexane	7.69	7.65	1.005	ok 1.005	0.945-1.065
2-Hexanone	13.36	15.34	0.871	ok 0.872	0.812-0.932
Iodomethane	5.39	7.65	0.705	ok 0.705	0.645-0.765
Isopropylbenzene	17.81	15.34	1.161	ok 1.162	1.102-1.222
Isopropyl Alcohol	5.01	7.65	0.655	ok 0.656	0.596-0.716
p-Isopropyltoluene	20.26	15.34	1.321	ok 1.321	1.261-1.381
Methylene chloride	5.57	7.65	0.728	ok 0.728	0.668-0.788
Methyl ethyl ketone	7.04	7.65	0.920	ok 0.924	0.864-0.984
Methyl Isobutyl Ketone	11.79	9.82	1.201	ok 1.201	1.141-1.261
Methyl Tert Butyl Ether	6.70	7.65	0.876	ok 0.878	0.818-0.938
Methylmethacrylate	10.93	9.82	1.113	ok 1.115	1.055-1.175
Naphthalene	22.88	15.34	1.492	ok 1.493	1.433-1.553
Nonane	17.30	15.34	1.128	ok 1.128	1.068-1.188
Octane	14.32	15.34	0.934	ok 0.934	0.874-0.994
Pentane	5.21	7.65	0.681	ok 0.681	0.621-0.741
n-Propylbenzene	18.63	15.34	1.214	ok 1.215	1.155-1.275

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	3.58	7.65	0.468 ok	0.468	0.408-0.528
Styrene	16.75	15.34	1.092 ok	1.093	1.033-1.153
1,1,1-Trichloroethane	8.86	7.65	1.158 ok	1.158	1.098-1.218
1,1,1,2-Tetrachloroethane	15.38	15.34	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.90	15.34	1.102 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.60	9.82	1.283 ok	1.284	1.224-1.344
1,2,4-Trichlorobenzene	23.22	15.34	1.514 ok	1.515	1.455-1.575
1,2,3-Trichloropropane	17.09	15.34	1.114 ok	1.115	1.055-1.175
1,2,3-Trimethylbenzene	20.23	15.34	1.319 ok	1.319	1.259-1.379
1,2,4-Trimethylbenzene	19.62	15.34	1.279 ok	1.280	1.220-1.340
1,3,5-Trimethylbenzene	19.01	15.34	1.239 ok	1.240	1.180-1.300
2,2,4-Trimethylpentane	10.67	9.82	1.087 ok	1.087	1.027-1.147
Tertiary Butyl Alcohol	5.53	7.65	0.723 ok	0.727	0.667-0.787
Tetrachloroethylene	14.46	15.34	0.943 ok	0.943	0.883-1.003
Tetrahydrofuran	8.23	7.65	1.076 ok	1.079	1.019-1.139
Toluene	12.95	9.82	1.319 ok	1.319	1.259-1.379
Trichloroethylene	10.64	9.82	1.084 ok	1.083	1.023-1.143
Trichlorofluoromethane	4.92	7.65	0.643 ok	0.643	0.583-0.703
Vinyl chloride	3.91	7.65	0.511 ok	0.511	0.451-0.571
Vinyl Acetate	6.79	7.65	0.888 ok	0.888	0.828-0.948
m,p-Xylene	16.20	15.34	1.056 ok	1.058	0.998-1.118
o-Xylene	16.89	15.34	1.101 ok	1.102	1.042-1.162
TVHC As Equiv Pentane	5.21	15.34	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.65 ok	7.65	7.32-7.98	412314	ok 443667	266200-621134
1,4-Difluorobenzene	9.82 ok	9.82	9.49-10.15	1823891	ok 1887207	1132324-2642090
Chlorobenzene-D5	15.34 ok	15.34	15.01-15.67	913003	ok 1019287	611572-1427002

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.80	7.65	0.627 ok	0.629	0.569-0.689
Acrolein	4.69	7.65	0.613 ok	0.614	0.554-0.674
Acrylonitrile	5.18	7.65	0.677 ok	0.679	0.619-0.739
Acetonitrile	4.60	7.65	0.601 ok	0.602	0.542-0.662
1,3-Butadiene	4.01	7.65	0.524 ok	0.524	0.464-0.584
Benzene	9.38	9.82	0.955 ok	0.956	0.896-1.016
Bromobenzene	17.90	15.34	1.167 ok	1.168	1.108-1.228
Bromodichloromethane	10.59	9.82	1.078 ok	1.078	1.018-1.138
Bromoform	16.28	15.34	1.061 ok	1.062	1.002-1.122
Bromomethane	4.21	7.65	0.550 ok	0.550	0.490-0.610
Bromoethene	4.60	7.65	0.601 ok	0.601	0.541-0.661
n-Butane	4.05	7.65	0.529 ok	0.529	0.469-0.589
Benzyl Chloride	19.81	15.34	1.291 ok	1.292	1.232-1.352
n-Butylbenzene	20.85	15.34	1.359 ok	1.360	1.300-1.420
sec-Butylbenzene	20.01	15.34	1.304 ok	1.305	1.245-1.365
tert-Butylbenzene	19.61	15.34	1.278 ok	1.279	1.219-1.339
Carbon disulfide	5.83	7.65	0.762 ok	0.762	0.702-0.822
Chlorobenzene	15.40	15.34	1.004 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.56	7.65	0.465 ok	0.465	0.405-0.525
Chloroethane	4.33	7.65	0.566 ok	0.566	0.506-0.626
Chlorotrifluoroethene	3.59	7.65	0.469 ok	0.469	0.409-0.529
Chloroform	7.79	7.65	1.018 ok	1.019	0.959-1.079
Chloromethane	3.75	7.65	0.490 ok	0.490	0.430-0.550
3-Chloropropene	5.67	7.65	0.741 ok	0.741	0.681-0.801
2-Chlorotoluene	18.54	15.34	1.209 ok	1.209	1.149-1.269
Carbon tetrachloride	9.55	7.65	1.248 ok	1.248	1.188-1.308
Cyclohexane	9.68	9.82	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.63	7.65	0.867 ok	0.867	0.807-0.927
1,1-Dichloroethylene	5.46	7.65	0.714 ok	0.714	0.654-0.774
1,2-Dibromoethane (EDB)	13.82	15.34	0.901 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.59	7.65	1.123 ok	1.123	1.063-1.183
1,2-Dichloropropane	10.35	9.82	1.054 ok	1.054	0.994-1.114
1,3-Dichloropropane	13.00	9.82	1.324 ok	1.324	1.264-1.384
1,4-Dioxane	10.65	9.82	1.085 ok	1.089	1.029-1.149
Dichlorodifluoromethane	3.64	7.65	0.476 ok	0.475	0.415-0.535
Dichlorofluoromethane	4.40	7.65	0.575 ok	0.575	0.515-0.635
Dibromochloromethane	13.50	15.34	0.880 ok	0.881	0.821-0.941
Dibromomethane	10.32	9.82	1.051 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	6.43	7.65	0.841 ok	0.841	0.781-0.901

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.48	7.65	0.978	ok 0.978	0.918-1.038
cis-1,3-Dichloropropene	11.72	9.82	1.193	ok 1.194	1.134-1.254
m-Dichlorobenzene	19.81	15.34	1.291	ok 1.292	1.232-1.352
o-Dichlorobenzene	20.40	15.34	1.330	ok 1.331	1.271-1.391
p-Dichlorobenzene	19.92	15.34	1.299	ok 1.299	1.239-1.359
trans-1,3-Dichloropropene	12.40	9.82	1.263	ok 1.263	1.203-1.323
Di-Isopropyl ether	7.69	7.65	1.005	ok 1.008	0.948-1.068
2,3-Dimethylpentane	9.99	9.82	1.017	ok 1.017	0.957-1.077
2,4-Dimethylpentane	8.65	7.65	1.131	ok 1.131	1.071-1.191
Ethanol	4.43	7.65	0.579	ok 0.579	0.519-0.639
Ethylbenzene	15.95	15.34	1.040	ok 1.041	0.981-1.101
Ethyl Acetate	7.73	7.65	1.010	ok 1.012	0.952-1.072
Ethyl Acrylate	10.40	9.82	1.059	ok 1.061	1.001-1.121
4-Ethyltoluene	18.88	15.34	1.231	ok 1.231	1.171-1.291
Freon 113	5.80	7.65	0.758	ok 0.758	0.698-0.818
Freon 114	3.82	7.65	0.499	ok 0.499	0.439-0.559
Freon 123	4.71	7.65	0.616	ok 0.616	0.556-0.676
Freon 123A	4.76	7.65	0.622	ok 0.622	0.562-0.682
Freon 142B	3.74	7.65	0.489	ok 0.489	0.429-0.549
Freon 152A	3.53	7.65	0.461	ok 0.461	0.401-0.521
Heptane	11.02	9.82	1.122	ok 1.122	1.062-1.182
Hexachlorobutadiene	23.37	15.34	1.523	ok 1.524	1.464-1.584
Hexachloroethane	21.32	15.34	1.390	ok 1.390	1.330-1.450
Hexane	7.69	7.65	1.005	ok 1.005	0.945-1.065
2-Hexanone	13.35	15.34	0.870	ok 0.872	0.812-0.932
Iodomethane	5.39	7.65	0.705	ok 0.705	0.645-0.765
Isopropylbenzene	17.81	15.34	1.161	ok 1.162	1.102-1.222
Isopropyl Alcohol	5.00	7.65	0.654	ok 0.656	0.596-0.716
p-Isopropyltoluene	20.26	15.34	1.321	ok 1.321	1.261-1.381
Methylene chloride	5.57	7.65	0.728	ok 0.728	0.668-0.788
Methyl ethyl ketone	7.03	7.65	0.919	ok 0.924	0.864-0.984
Methyl Isobutyl Ketone	11.77	9.82	1.199	ok 1.201	1.141-1.261
Methyl Tert Butyl Ether	6.69	7.65	0.875	ok 0.878	0.818-0.938
Methylmethacrylate	10.92	9.82	1.112	ok 1.115	1.055-1.175
Naphthalene	22.88	15.34	1.492	ok 1.493	1.433-1.553
Nonane	17.30	15.34	1.128	ok 1.128	1.068-1.188
Octane	14.32	15.34	0.934	ok 0.934	0.874-0.994
Pentane	5.21	7.65	0.681	ok 0.681	0.621-0.741
n-Propylbenzene	18.63	15.34	1.214	ok 1.215	1.155-1.275

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	3.58	7.65	0.468 ok	0.468	0.408-0.528
Styrene	16.75	15.34	1.092 ok	1.093	1.033-1.153
1,1,1-Trichloroethane	8.86	7.65	1.158 ok	1.158	1.098-1.218
1,1,1,2-Tetrachloroethane	15.38	15.34	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.90	15.34	1.102 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.60	9.82	1.283 ok	1.284	1.224-1.344
1,2,4-Trichlorobenzene	23.22	15.34	1.514 ok	1.515	1.455-1.575
1,2,3-Trichloropropane	17.09	15.34	1.114 ok	1.115	1.055-1.175
1,2,3-Trimethylbenzene	20.23	15.34	1.319 ok	1.319	1.259-1.379
1,2,4-Trimethylbenzene	19.62	15.34	1.279 ok	1.280	1.220-1.340
1,3,5-Trimethylbenzene	19.01	15.34	1.239 ok	1.240	1.180-1.300
2,2,4-Trimethylpentane	10.67	9.82	1.087 ok	1.087	1.027-1.147
Tertiary Butyl Alcohol	5.52	7.65	0.722 ok	0.727	0.667-0.787
Tetrachloroethylene	14.46	15.34	0.943 ok	0.943	0.883-1.003
Tetrahydrofuran	8.22	7.65	1.075 ok	1.079	1.019-1.139
Toluene	12.95	9.82	1.319 ok	1.319	1.259-1.379
Trichloroethylene	10.64	9.82	1.084 ok	1.083	1.023-1.143
Trichlorofluoromethane	4.92	7.65	0.643 ok	0.643	0.583-0.703
Vinyl chloride	3.91	7.65	0.511 ok	0.511	0.451-0.571
Vinyl Acetate	6.79	7.65	0.888 ok	0.888	0.828-0.948
m,p-Xylene	16.23	15.34	1.058 ok	1.058	0.998-1.118
o-Xylene	16.89	15.34	1.101 ok	1.102	1.042-1.162
TVHC As Equiv Pentane	5.21	15.34	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.65 ok	7.65	7.32-7.98	422761	ok 443667	266200-621134
1,4-Difluorobenzene	9.82 ok	9.82	9.49-10.15	1839130	ok 1887207	1132324-2642090
Chlorobenzene-D5	15.34 ok	15.34	15.01-15.67	963498	ok 1019287	611572-1427002

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.80	7.66	0.627 ok	0.629	0.569-0.689
Acrolein	4.69	7.66	0.612 ok	0.614	0.554-0.674
Acrylonitrile	5.18	7.66	0.676 ok	0.679	0.619-0.739
Acetonitrile	4.60	7.66	0.601 ok	0.602	0.542-0.662
1,3-Butadiene	4.01	7.66	0.523 ok	0.524	0.464-0.584
Benzene	9.38	9.82	0.955 ok	0.956	0.896-1.016
Bromobenzene	17.90	15.34	1.167 ok	1.168	1.108-1.228
Bromodichloromethane	10.59	9.82	1.078 ok	1.078	1.018-1.138
Bromoform	16.28	15.34	1.061 ok	1.062	1.002-1.122
Bromomethane	4.21	7.66	0.550 ok	0.550	0.490-0.610
Bromoethene	4.60	7.66	0.601 ok	0.601	0.541-0.661
n-Butane	4.05	7.66	0.529 ok	0.529	0.469-0.589
Benzyl Chloride	19.81	15.34	1.291 ok	1.292	1.232-1.352
n-Butylbenzene	20.85	15.34	1.359 ok	1.360	1.300-1.420
sec-Butylbenzene	20.01	15.34	1.304 ok	1.305	1.245-1.365
tert-Butylbenzene	19.61	15.34	1.278 ok	1.279	1.219-1.339
Carbon disulfide	5.83	7.66	0.761 ok	0.762	0.702-0.822
Chlorobenzene	15.40	15.34	1.004 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.56	7.66	0.465 ok	0.465	0.405-0.525
Chloroethane	4.33	7.66	0.565 ok	0.566	0.506-0.626
Chlorotrifluoroethene	3.59	7.66	0.469 ok	0.469	0.409-0.529
Chloroform	7.80	7.66	1.018 ok	1.019	0.959-1.079
Chloromethane	3.75	7.66	0.490 ok	0.490	0.430-0.550
3-Chloropropene	5.67	7.66	0.740 ok	0.741	0.681-0.801
2-Chlorotoluene	18.55	15.34	1.209 ok	1.209	1.149-1.269
Carbon tetrachloride	9.55	7.66	1.247 ok	1.248	1.188-1.308
Cyclohexane	9.69	9.82	0.987 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.63	7.66	0.866 ok	0.867	0.807-0.927
1,1-Dichloroethylene	5.46	7.66	0.713 ok	0.714	0.654-0.774
1,2-Dibromoethane (EDB)	13.82	15.34	0.901 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.59	7.66	1.121 ok	1.123	1.063-1.183
1,2-Dichloropropane	10.35	9.82	1.054 ok	1.054	0.994-1.114
1,3-Dichloropropane	13.00	9.82	1.324 ok	1.324	1.264-1.384
1,4-Dioxane	10.65	9.82	1.085 ok	1.089	1.029-1.149
Dichlorodifluoromethane	3.64	7.66	0.475 ok	0.475	0.415-0.535
Dichlorofluoromethane	4.40	7.66	0.574 ok	0.575	0.515-0.635
Dibromochloromethane	13.51	15.34	0.881 ok	0.881	0.821-0.941
Dibromomethane	10.32	9.82	1.051 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	6.43	7.66	0.839 ok	0.841	0.781-0.901

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.48	7.66	0.977	ok 0.978	0.918-1.038
cis-1,3-Dichloropropene	11.72	9.82	1.193	ok 1.194	1.134-1.254
m-Dichlorobenzene	19.82	15.34	1.292	ok 1.292	1.232-1.352
o-Dichlorobenzene	20.40	15.34	1.330	ok 1.331	1.271-1.391
p-Dichlorobenzene	19.92	15.34	1.299	ok 1.299	1.239-1.359
trans-1,3-Dichloropropene	12.40	9.82	1.263	ok 1.263	1.203-1.323
Di-Isopropyl ether	7.69	7.66	1.004	ok 1.008	0.948-1.068
2,3-Dimethylpentane	9.99	9.82	1.017	ok 1.017	0.957-1.077
2,4-Dimethylpentane	8.65	7.66	1.129	ok 1.131	1.071-1.191
Ethanol	4.43	7.66	0.578	ok 0.579	0.519-0.639
Ethylbenzene	15.95	15.34	1.040	ok 1.041	0.981-1.101
Ethyl Acetate	7.72	7.66	1.008	ok 1.012	0.952-1.072
Ethyl Acrylate	10.40	9.82	1.059	ok 1.061	1.001-1.121
4-Ethyltoluene	18.88	15.34	1.231	ok 1.231	1.171-1.291
Freon 113	5.80	7.66	0.757	ok 0.758	0.698-0.818
Freon 114	3.82	7.66	0.499	ok 0.499	0.439-0.559
Freon 123	4.71	7.66	0.615	ok 0.616	0.556-0.676
Freon 123A	4.76	7.66	0.621	ok 0.622	0.562-0.682
Freon 142B	3.74	7.66	0.488	ok 0.489	0.429-0.549
Freon 152A	3.53	7.66	0.461	ok 0.461	0.401-0.521
Heptane	11.02	9.82	1.122	ok 1.122	1.062-1.182
Hexachlorobutadiene	23.37	15.34	1.523	ok 1.524	1.464-1.584
Hexachloroethane	21.32	15.34	1.390	ok 1.390	1.330-1.450
Hexane	7.69	7.66	1.004	ok 1.005	0.945-1.065
2-Hexanone	13.34	15.34	0.870	ok 0.872	0.812-0.932
Iodomethane	5.40	7.66	0.705	ok 0.705	0.645-0.765
Isopropylbenzene	17.81	15.34	1.161	ok 1.162	1.102-1.222
Isopropyl Alcohol	5.00	7.66	0.653	ok 0.656	0.596-0.716
p-Isopropyltoluene	20.26	15.34	1.321	ok 1.321	1.261-1.381
Methylene chloride	5.57	7.66	0.727	ok 0.728	0.668-0.788
Methyl ethyl ketone	7.03	7.66	0.918	ok 0.924	0.864-0.984
Methyl Isobutyl Ketone	11.77	9.82	1.199	ok 1.201	1.141-1.261
Methyl Tert Butyl Ether	6.68	7.66	0.872	ok 0.878	0.818-0.938
Methylmethacrylate	10.92	9.82	1.112	ok 1.115	1.055-1.175
Naphthalene	22.88	15.34	1.492	ok 1.493	1.433-1.553
Nonane	17.31	15.34	1.128	ok 1.128	1.068-1.188
Octane	14.32	15.34	0.934	ok 0.934	0.874-0.994
Pentane	5.21	7.66	0.680	ok 0.681	0.621-0.741
n-Propylbenzene	18.63	15.34	1.214	ok 1.215	1.155-1.275

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	3.58	7.66	0.467 ok	0.468	0.408-0.528
Styrene	16.75	15.34	1.092 ok	1.093	1.033-1.153
1,1,1-Trichloroethane	8.86	7.66	1.157 ok	1.158	1.098-1.218
1,1,1,2-Tetrachloroethane	15.38	15.34	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.90	15.34	1.102 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.61	9.82	1.284 ok	1.284	1.224-1.344
1,2,4-Trichlorobenzene	23.22	15.34	1.514 ok	1.515	1.455-1.575
1,2,3-Trichloropropane	17.09	15.34	1.114 ok	1.115	1.055-1.175
1,2,3-Trimethylbenzene	20.23	15.34	1.319 ok	1.319	1.259-1.379
1,2,4-Trimethylbenzene	19.62	15.34	1.279 ok	1.280	1.220-1.340
1,3,5-Trimethylbenzene	19.01	15.34	1.239 ok	1.240	1.180-1.300
2,2,4-Trimethylpentane	10.67	9.82	1.087 ok	1.087	1.027-1.147
Tertiary Butyl Alcohol	5.52	7.66	0.721 ok	0.727	0.667-0.787
Tetrachloroethylene	14.46	15.34	0.943 ok	0.943	0.883-1.003
Tetrahydrofuran	8.21	7.66	1.072 ok	1.079	1.019-1.139
Toluene	12.95	9.82	1.319 ok	1.319	1.259-1.379
Trichloroethylene	10.64	9.82	1.084 ok	1.083	1.023-1.143
Trichlorofluoromethane	4.92	7.66	0.642 ok	0.643	0.583-0.703
Vinyl chloride	3.91	7.66	0.510 ok	0.511	0.451-0.571
Vinyl Acetate	6.79	7.66	0.886 ok	0.888	0.828-0.948
m,p-Xylene	16.23	15.34	1.058 ok	1.058	0.998-1.118
o-Xylene	16.89	15.34	1.101 ok	1.102	1.042-1.162
TVHC As Equiv Pentane	5.21	15.34	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.66 ok	7.65	7.32-7.98	434526	ok 443667	266200-621134
1,4-Difluorobenzene	9.82 ok	9.82	9.49-10.15	1816899	ok 1887207	1132324-2642090
Chlorobenzene-D5	15.34 ok	15.34	15.01-15.67	1045556	ok 1019287	611572-1427002

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.80	7.66	0.627 ok	0.629	0.569-0.689
Acrolein	4.70	7.66	0.614 ok	0.614	0.554-0.674
Acrylonitrile	5.19	7.66	0.678 ok	0.679	0.619-0.739
Acetonitrile	4.60	7.66	0.601 ok	0.602	0.542-0.662
1,3-Butadiene	4.01	7.66	0.523 ok	0.524	0.464-0.584
Benzene	9.39	9.83	0.955 ok	0.956	0.896-1.016
Bromobenzene	17.91	15.34	1.168 ok	1.168	1.108-1.228
Bromodichloromethane	10.60	9.83	1.078 ok	1.078	1.018-1.138
Bromoform	16.29	15.34	1.062 ok	1.062	1.002-1.122
Bromomethane	4.21	7.66	0.550 ok	0.550	0.490-0.610
Bromoethene	4.60	7.66	0.601 ok	0.601	0.541-0.661
n-Butane	4.05	7.66	0.529 ok	0.529	0.469-0.589
Benzyl Chloride	19.82	15.34	1.292 ok	1.292	1.232-1.352
n-Butylbenzene	20.86	15.34	1.360 ok	1.360	1.300-1.420
sec-Butylbenzene	20.02	15.34	1.305 ok	1.305	1.245-1.365
tert-Butylbenzene	19.62	15.34	1.279 ok	1.279	1.219-1.339
Carbon disulfide	5.83	7.66	0.761 ok	0.762	0.702-0.822
Chlorobenzene	15.41	15.34	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.56	7.66	0.465 ok	0.465	0.405-0.525
Chloroethane	4.33	7.66	0.565 ok	0.566	0.506-0.626
Chlorotrifluoroethene	3.59	7.66	0.469 ok	0.469	0.409-0.529
Chloroform	7.80	7.66	1.018 ok	1.019	0.959-1.079
Chloromethane	3.75	7.66	0.490 ok	0.490	0.430-0.550
3-Chloropropene	5.68	7.66	0.742 ok	0.741	0.681-0.801
2-Chlorotoluene	18.55	15.34	1.209 ok	1.209	1.149-1.269
Carbon tetrachloride	9.55	7.66	1.247 ok	1.248	1.188-1.308
Cyclohexane	9.69	9.83	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.63	7.66	0.866 ok	0.867	0.807-0.927
1,1-Dichloroethylene	5.47	7.66	0.714 ok	0.714	0.654-0.774
1,2-Dibromoethane (EDB)	13.82	15.34	0.901 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.59	7.66	1.121 ok	1.123	1.063-1.183
1,2-Dichloropropane	10.35	9.83	1.053 ok	1.054	0.994-1.114
1,3-Dichloropropane	13.00	9.83	1.322 ok	1.324	1.264-1.384
1,4-Dioxane	10.65	9.83	1.083 ok	1.089	1.029-1.149
Dichlorodifluoromethane	3.64	7.66	0.475 ok	0.475	0.415-0.535
Dichlorofluoromethane	4.40	7.66	0.574 ok	0.575	0.515-0.635
Dibromochloromethane	13.51	15.34	0.881 ok	0.881	0.821-0.941
Dibromomethane	10.33	9.83	1.051 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	6.43	7.66	0.839 ok	0.841	0.781-0.901

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.49	7.66	0.978	ok 0.978	0.918-1.038
cis-1,3-Dichloropropene	11.72	9.83	1.192	ok 1.194	1.134-1.254
m-Dichlorobenzene	19.82	15.34	1.292	ok 1.292	1.232-1.352
o-Dichlorobenzene	20.41	15.34	1.331	ok 1.331	1.271-1.391
p-Dichlorobenzene	19.93	15.34	1.299	ok 1.299	1.239-1.359
trans-1,3-Dichloropropene	12.40	9.83	1.261	ok 1.263	1.203-1.323
Di-Isopropyl ether	7.70	7.66	1.005	ok 1.008	0.948-1.068
2,3-Dimethylpentane	9.99	9.83	1.016	ok 1.017	0.957-1.077
2,4-Dimethylpentane	8.65	7.66	1.129	ok 1.131	1.071-1.191
Ethanol	4.44	7.66	0.580	ok 0.579	0.519-0.639
Ethylbenzene	15.96	15.34	1.040	ok 1.041	0.981-1.101
Ethyl Acetate	7.73	7.66	1.009	ok 1.012	0.952-1.072
Ethyl Acrylate	10.40	9.83	1.058	ok 1.061	1.001-1.121
4-Ethyltoluene	18.88	15.34	1.231	ok 1.231	1.171-1.291
Freon 113	5.80	7.66	0.757	ok 0.758	0.698-0.818
Freon 114	3.83	7.66	0.500	ok 0.499	0.439-0.559
Freon 123	4.72	7.66	0.616	ok 0.616	0.556-0.676
Freon 123A	4.76	7.66	0.621	ok 0.622	0.562-0.682
Freon 142B	3.74	7.66	0.488	ok 0.489	0.429-0.549
Freon 152A	3.53	7.66	0.461	ok 0.461	0.401-0.521
Heptane	11.02	9.83	1.121	ok 1.122	1.062-1.182
Hexachlorobutadiene	23.37	15.34	1.523	ok 1.524	1.464-1.584
Hexachloroethane	21.32	15.34	1.390	ok 1.390	1.330-1.450
Hexane	7.69	7.66	1.004	ok 1.005	0.945-1.065
2-Hexanone	13.35	15.34	0.870	ok 0.872	0.812-0.932
Iodomethane	5.40	7.66	0.705	ok 0.705	0.645-0.765
Isopropylbenzene	17.82	15.34	1.162	ok 1.162	1.102-1.222
Isopropyl Alcohol	5.01	7.66	0.654	ok 0.656	0.596-0.716
p-Isopropyltoluene	20.27	15.34	1.321	ok 1.321	1.261-1.381
Methylene chloride	5.58	7.66	0.728	ok 0.728	0.668-0.788
Methyl ethyl ketone	7.03	7.66	0.918	ok 0.924	0.864-0.984
Methyl Isobutyl Ketone	11.77	9.83	1.197	ok 1.201	1.141-1.261
Methyl Tert Butyl Ether	6.68	7.66	0.872	ok 0.878	0.818-0.938
Methylmethacrylate	10.93	9.83	1.112	ok 1.115	1.055-1.175
Naphthalene	22.89	15.34	1.492	ok 1.493	1.433-1.553
Nonane	17.31	15.34	1.128	ok 1.128	1.068-1.188
Octane	14.32	15.34	0.934	ok 0.934	0.874-0.994
Pentane	5.22	7.66	0.681	ok 0.681	0.621-0.741
n-Propylbenzene	18.64	15.34	1.215	ok 1.215	1.155-1.275

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	3.58	7.66	0.467 ok	0.468	0.408-0.528
Styrene	16.75	15.34	1.092 ok	1.093	1.033-1.153
1,1,1-Trichloroethane	8.87	7.66	1.158 ok	1.158	1.098-1.218
1,1,1,2-Tetrachloroethane	15.39	15.34	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.91	15.34	1.102 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.61	9.83	1.283 ok	1.284	1.224-1.344
1,2,4-Trichlorobenzene	23.23	15.34	1.514 ok	1.515	1.455-1.575
1,2,3-Trichloropropane	17.10	15.34	1.115 ok	1.115	1.055-1.175
1,2,3-Trimethylbenzene	20.24	15.34	1.319 ok	1.319	1.259-1.379
1,2,4-Trimethylbenzene	19.63	15.34	1.280 ok	1.280	1.220-1.340
1,3,5-Trimethylbenzene	19.01	15.34	1.239 ok	1.240	1.180-1.300
2,2,4-Trimethylpentane	10.68	9.83	1.086 ok	1.087	1.027-1.147
Tertiary Butyl Alcohol	5.52	7.66	0.721 ok	0.727	0.667-0.787
Tetrachloroethylene	14.46	15.34	0.943 ok	0.943	0.883-1.003
Tetrahydrofuran	8.21	7.66	1.072 ok	1.079	1.019-1.139
Toluene	12.95	9.83	1.317 ok	1.319	1.259-1.379
Trichloroethylene	10.65	9.83	1.083 ok	1.083	1.023-1.143
Trichlorofluoromethane	4.92	7.66	0.642 ok	0.643	0.583-0.703
Vinyl chloride	3.91	7.66	0.510 ok	0.511	0.451-0.571
Vinyl Acetate	6.79	7.66	0.886 ok	0.888	0.828-0.948
m,p-Xylene	16.24	15.34	1.059 ok	1.058	0.998-1.118
o-Xylene	16.90	15.34	1.102 ok	1.102	1.042-1.162
TVHC As Equiv Pentane	5.21	15.34	0.340 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.66 ok	7.65	7.32-7.98	463457	ok 443667	266200-621134
1,4-Difluorobenzene	9.83 ok	9.82	9.49-10.15	1816263	ok 1887207	1132324-2642090
Chlorobenzene-D5	15.34 ok	15.34	15.01-15.67	1233579	ok 1019287	611572-1427002

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.80	7.66	0.627 ok	0.629	0.569-0.689
Acrolein	4.70	7.66	0.614 ok	0.614	0.554-0.674
Acrylonitrile	5.19	7.66	0.678 ok	0.679	0.619-0.739
Acetonitrile	4.60	7.66	0.601 ok	0.602	0.542-0.662
1,3-Butadiene	4.01	7.66	0.523 ok	0.524	0.464-0.584
Benzene	9.39	9.83	0.955 ok	0.956	0.896-1.016
Bromobenzene	17.91	15.35	1.167 ok	1.168	1.108-1.228
Bromodichloromethane	10.60	9.83	1.078 ok	1.078	1.018-1.138
Bromoform	16.30	15.35	1.062 ok	1.062	1.002-1.122
Bromomethane	4.21	7.66	0.550 ok	0.550	0.490-0.610
Bromoethene	4.60	7.66	0.601 ok	0.601	0.541-0.661
n-Butane	4.05	7.66	0.529 ok	0.529	0.469-0.589
Benzyl Chloride	19.82	15.35	1.291 ok	1.292	1.232-1.352
n-Butylbenzene	20.86	15.35	1.359 ok	1.360	1.300-1.420
sec-Butylbenzene	20.02	15.35	1.304 ok	1.305	1.245-1.365
tert-Butylbenzene	19.62	15.35	1.278 ok	1.279	1.219-1.339
Carbon disulfide	5.83	7.66	0.761 ok	0.762	0.702-0.822
Chlorobenzene	15.41	15.35	1.004 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.56	7.66	0.465 ok	0.465	0.405-0.525
Chloroethane	4.33	7.66	0.565 ok	0.566	0.506-0.626
Chlorotrifluoroethene	3.59	7.66	0.469 ok	0.469	0.409-0.529
Chloroform	7.80	7.66	1.018 ok	1.019	0.959-1.079
Chloromethane	3.75	7.66	0.490 ok	0.490	0.430-0.550
3-Chloropropene	5.67	7.66	0.740 ok	0.741	0.681-0.801
2-Chlorotoluene	18.55	15.35	1.208 ok	1.209	1.149-1.269
Carbon tetrachloride	9.55	7.66	1.247 ok	1.248	1.188-1.308
Cyclohexane	9.69	9.83	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.64	7.66	0.867 ok	0.867	0.807-0.927
1,1-Dichloroethylene	5.46	7.66	0.713 ok	0.714	0.654-0.774
1,2-Dibromoethane (EDB)	13.82	15.35	0.900 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.59	7.66	1.121 ok	1.123	1.063-1.183
1,2-Dichloropropane	10.35	9.83	1.053 ok	1.054	0.994-1.114
1,3-Dichloropropane	13.00	9.83	1.322 ok	1.324	1.264-1.384
1,4-Dioxane	10.65	9.83	1.083 ok	1.089	1.029-1.149
Dichlorodifluoromethane	3.64	7.66	0.475 ok	0.475	0.415-0.535
Dichlorofluoromethane	4.40	7.66	0.574 ok	0.575	0.515-0.635
Dibromochloromethane	13.51	15.35	0.880 ok	0.881	0.821-0.941
Dibromomethane	10.33	9.83	1.051 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	6.43	7.66	0.839 ok	0.841	0.781-0.901

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15 Reporting this level
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.49	7.66	0.978 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	11.73	9.83	1.193 ok	1.194	1.134-1.254
m-Dichlorobenzene	19.82	15.35	1.291 ok	1.292	1.232-1.352
o-Dichlorobenzene	20.41	15.35	1.330 ok	1.331	1.271-1.391
p-Dichlorobenzene	19.93	15.35	1.298 ok	1.299	1.239-1.359
trans-1,3-Dichloropropene	12.40	9.83	1.261 ok	1.263	1.203-1.323
Di-Isopropyl ether	7.70	7.66	1.005 ok	1.008	0.948-1.068
2,3-Dimethylpentane	9.99	9.83	1.016 ok	1.017	0.957-1.077
2,4-Dimethylpentane	8.65	7.66	1.129 ok	1.131	1.071-1.191
Ethanol	4.44	7.66	0.580 ok	0.579	0.519-0.639
Ethylbenzene	15.96	15.35	1.040 ok	1.041	0.981-1.101
Ethyl Acetate	7.73	7.66	1.009 ok	1.012	0.952-1.072
Ethyl Acrylate	10.40	9.83	1.058 ok	1.061	1.001-1.121
4-Ethyltoluene	18.88	15.35	1.230 ok	1.231	1.171-1.291
Freon 113	5.80	7.66	0.757 ok	0.758	0.698-0.818
Freon 114	3.82	7.66	0.499 ok	0.499	0.439-0.559
Freon 123	4.71	7.66	0.615 ok	0.616	0.556-0.676
Freon 123A	4.76	7.66	0.621 ok	0.622	0.562-0.682
Freon 142B	3.74	7.66	0.488 ok	0.489	0.429-0.549
Freon 152A	3.53	7.66	0.461 ok	0.461	0.401-0.521
Heptane	11.03	9.83	1.122 ok	1.122	1.062-1.182
Hexachlorobutadiene	23.37	15.35	1.522 ok	1.524	1.464-1.584
Hexachloroethane	21.32	15.35	1.389 ok	1.390	1.330-1.450
Hexane	7.69	7.66	1.004 ok	1.005	0.945-1.065
2-Hexanone	13.35	15.35	0.870 ok	0.872	0.812-0.932
Iodomethane	5.40	7.66	0.705 ok	0.705	0.645-0.765
Isopropylbenzene	17.82	15.35	1.161 ok	1.162	1.102-1.222
Isopropyl Alcohol	5.01	7.66	0.654 ok	0.656	0.596-0.716
p-Isopropyltoluene	20.27	15.35	1.321 ok	1.321	1.261-1.381
Methylene chloride	5.58	7.66	0.728 ok	0.728	0.668-0.788
Methyl ethyl ketone	7.03	7.66	0.918 ok	0.924	0.864-0.984
Methyl Isobutyl Ketone	11.77	9.83	1.197 ok	1.201	1.141-1.261
Methyl Tert Butyl Ether	6.68	7.66	0.872 ok	0.878	0.818-0.938
Methylmethacrylate	10.93	9.83	1.112 ok	1.115	1.055-1.175
Naphthalene	22.89	15.35	1.491 ok	1.493	1.433-1.553
Nonane	17.32	15.35	1.128 ok	1.128	1.068-1.188
Octane	14.33	15.35	0.934 ok	0.934	0.874-0.994
Pentane	5.21	7.66	0.680 ok	0.681	0.621-0.741
n-Propylbenzene	18.64	15.35	1.214 ok	1.215	1.155-1.275

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	3.58	7.66	0.467 ok	0.468	0.408-0.528
Styrene	16.75	15.35	1.091 ok	1.093	1.033-1.153
1,1,1-Trichloroethane	8.87	7.66	1.158 ok	1.158	1.098-1.218
1,1,1,2-Tetrachloroethane	15.39	15.35	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.91	15.35	1.102 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.61	9.83	1.283 ok	1.284	1.224-1.344
1,2,4-Trichlorobenzene	23.23	15.35	1.513 ok	1.515	1.455-1.575
1,2,3-Trichloropropane	17.10	15.35	1.114 ok	1.115	1.055-1.175
1,2,3-Trimethylbenzene	20.24	15.35	1.319 ok	1.319	1.259-1.379
1,2,4-Trimethylbenzene	19.64	15.35	1.279 ok	1.280	1.220-1.340
1,3,5-Trimethylbenzene	19.02	15.35	1.239 ok	1.240	1.180-1.300
2,2,4-Trimethylpentane	10.68	9.83	1.086 ok	1.087	1.027-1.147
Tertiary Butyl Alcohol	5.52	7.66	0.721 ok	0.727	0.667-0.787
Tetrachloroethylene	14.47	15.35	0.943 ok	0.943	0.883-1.003
Tetrahydrofuran	8.21	7.66	1.072 ok	1.079	1.019-1.139
Toluene	12.95	9.83	1.317 ok	1.319	1.259-1.379
Trichloroethylene	10.65	9.83	1.083 ok	1.083	1.023-1.143
Trichlorofluoromethane	4.92	7.66	0.642 ok	0.643	0.583-0.703
Vinyl chloride	3.91	7.66	0.510 ok	0.511	0.451-0.571
Vinyl Acetate	6.79	7.66	0.886 ok	0.888	0.828-0.948
m,p-Xylene	16.24	15.35	1.058 ok	1.058	0.998-1.118
o-Xylene	16.91	15.35	1.102 ok	1.102	1.042-1.162
TVHC As Equiv Pentane	5.21	15.35	0.339 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.66 ok	7.65	7.32-7.98	497435	ok 443667	266200-621134
1,4-Difluorobenzene	9.83 ok	9.82	9.49-10.15	1886774	ok 1887207	1132324-2642090
Chlorobenzene-D5	15.35 ok	15.34	15.01-15.67	1356790	ok 1019287	611572-1427002

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.82	7.64	0.631 ok	0.629	0.569-0.689
Acrolein	4.70	7.64	0.615 ok	0.614	0.554-0.674
Acrylonitrile	5.20	7.64	0.681 ok	0.679	0.619-0.739
Acetonitrile	4.61	7.64	0.603 ok	0.602	0.542-0.662
1,3-Butadiene	4.00	7.64	0.524 ok	0.524	0.464-0.584
Benzene	9.38	9.82	0.955 ok	0.956	0.896-1.016
Bromobenzene	17.91	15.33	1.168 ok	1.168	1.108-1.228
Bromodichloromethane	10.59	9.82	1.078 ok	1.078	1.018-1.138
Bromoform	16.29	15.33	1.063 ok	1.062	1.002-1.122
Bromomethane	4.21	7.64	0.551 ok	0.550	0.490-0.610
Bromoethene	4.60	7.64	0.602 ok	0.601	0.541-0.661
n-Butane	4.04	7.64	0.529 ok	0.529	0.469-0.589
Benzyl Chloride	19.81	15.33	1.292 ok	1.292	1.232-1.352
n-Butylbenzene	20.85	15.33	1.360 ok	1.360	1.300-1.420
sec-Butylbenzene	20.01	15.33	1.305 ok	1.305	1.245-1.365
tert-Butylbenzene	19.60	15.33	1.279 ok	1.279	1.219-1.339
Carbon disulfide	5.83	7.64	0.763 ok	0.762	0.702-0.822
Chlorobenzene	15.40	15.33	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.56	7.64	0.466 ok	0.465	0.405-0.525
Chloroethane	4.33	7.64	0.567 ok	0.566	0.506-0.626
Chlorotrifluoroethene	3.58	7.64	0.469 ok	0.469	0.409-0.529
Chloroform	7.79	7.64	1.020 ok	1.019	0.959-1.079
Chloromethane	3.75	7.64	0.491 ok	0.490	0.430-0.550
3-Chloropropene	5.67	7.64	0.742 ok	0.741	0.681-0.801
2-Chlorotoluene	18.55	15.33	1.210 ok	1.209	1.149-1.269
Carbon tetrachloride	9.55	7.64	1.250 ok	1.248	1.188-1.308
Cyclohexane	9.68	9.82	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.62	7.64	0.866 ok	0.867	0.807-0.927
1,1-Dichloroethylene	5.45	7.64	0.713 ok	0.714	0.654-0.774
1,2-Dibromoethane (EDB)	13.82	15.33	0.902 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.59	7.64	1.124 ok	1.123	1.063-1.183
1,2-Dichloropropane	10.35	9.82	1.054 ok	1.054	0.994-1.114
1,3-Dichloropropane	13.00	9.82	1.324 ok	1.324	1.264-1.384
1,4-Dioxane	10.73	9.82	1.093 ok	1.089	1.029-1.149
Dichlorodifluoromethane	3.63	7.64	0.475 ok	0.475	0.415-0.535
Dichlorofluoromethane	4.40	7.64	0.576 ok	0.575	0.515-0.635
Dibromochloromethane	13.50	15.33	0.881 ok	0.881	0.821-0.941
Dibromomethane	10.32	9.82	1.051 ok	1.051	0.991-1.111
trans-1,2-Dichloroethylene	6.43	7.64	0.842 ok	0.841	0.781-0.901

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.47	7.64	0.978	ok 0.978	0.918-1.038
cis-1,3-Dichloropropene	11.73	9.82	1.195	ok 1.194	1.134-1.254
m-Dichlorobenzene	19.82	15.33	1.293	ok 1.292	1.232-1.352
o-Dichlorobenzene	20.41	15.33	1.331	ok 1.331	1.271-1.391
p-Dichlorobenzene	19.92	15.33	1.299	ok 1.299	1.239-1.359
trans-1,3-Dichloropropene	12.41	9.82	1.264	ok 1.263	1.203-1.323
Di-Isopropyl ether	7.72	7.64	1.010	ok 1.008	0.948-1.068
2,3-Dimethylpentane	9.98	9.82	1.016	ok 1.017	0.957-1.077
2,4-Dimethylpentane	8.65	7.64	1.132	ok 1.131	1.071-1.191
Ethanol	4.44	7.64	0.581	ok 0.579	0.519-0.639
Ethylbenzene	15.96	15.33	1.041	ok 1.041	0.981-1.101
Ethyl Acetate	7.77	7.64	1.017	ok 1.012	0.952-1.072
Ethyl Acrylate	10.45	9.82	1.064	ok 1.061	1.001-1.121
4-Ethyltoluene	18.88	15.33	1.232	ok 1.231	1.171-1.291
Freon 113	5.80	7.64	0.759	ok 0.758	0.698-0.818
Freon 114	3.82	7.64	0.500	ok 0.499	0.439-0.559
Freon 123	4.71	7.64	0.616	ok 0.616	0.556-0.676
Freon 123A	4.76	7.64	0.623	ok 0.622	0.562-0.682
Freon 142B	3.74	7.64	0.490	ok 0.489	0.429-0.549
Freon 152A	3.52	7.64	0.461	ok 0.461	0.401-0.521
Heptane	11.02	9.82	1.122	ok 1.122	1.062-1.182
Hexachlorobutadiene	23.37	15.33	1.524	ok 1.524	1.464-1.584
Hexachloroethane	21.32	15.33	1.391	ok 1.390	1.330-1.450
Hexane	7.69	7.64	1.007	ok 1.005	0.945-1.065
2-Hexanone	13.41	15.33	0.875	ok 0.872	0.812-0.932
Iodomethane	5.39	7.64	0.705	ok 0.705	0.645-0.765
Isopropylbenzene	17.81	15.33	1.162	ok 1.162	1.102-1.222
Isopropyl Alcohol	5.04	7.64	0.660	ok 0.656	0.596-0.716
p-Isopropyltoluene	20.26	15.33	1.322	ok 1.321	1.261-1.381
Methylene chloride	5.56	7.64	0.728	ok 0.728	0.668-0.788
Methyl ethyl ketone	7.09	7.64	0.928	ok 0.924	0.864-0.984
Methyl Isobutyl Ketone	11.84	9.82	1.206	ok 1.201	1.141-1.261
Methyl Tert Butyl Ether	6.73	7.64	0.881	ok 0.878	0.818-0.938
Methylmethacrylate	10.96	9.82	1.116	ok 1.115	1.055-1.175
Naphthalene	22.89	15.33	1.493	ok 1.493	1.433-1.553
Nonane	17.30	15.33	1.129	ok 1.128	1.068-1.188
Octane	14.33	15.33	0.935	ok 0.934	0.874-0.994
Pentane	5.20	7.64	0.681	ok 0.681	0.621-0.741
n-Propylbenzene	18.64	15.33	1.216	ok 1.215	1.155-1.275

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2144-IC2144	5W55994.D	01/09/25 00:36	TCH	0.04	GCMS5W	TO-15
V5W2144-IC2144	5W55995.D	01/09/25 01:16	TCH	0.1	GCMS5W	TO-15
V5W2144-IC2144	5W55996.D	01/09/25 01:59	TCH	0.2	GCMS5W	TO-15
V5W2144-IC2144	5W56001.D	01/09/25 05:39	TCH	5	GCMS5W	TO-15
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	TCH	10	GCMS5W	TO-15
V5W2144-IC2144	5W56003.D	01/09/25 07:03	TCH	20	GCMS5W	TO-15
V5W2144-IC2144	5W56004.D	01/09/25 07:49	TCH	40	GCMS5W	TO-15
V5W2144-IC2144	5W56005.D	01/09/25 08:36	TCH	50	GCMS5W	TO-15
V5W2144-IC2144	5W56013.D	01/09/25 15:02	TCH	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Propylene	3.58	7.64	0.469 ok	0.468	0.408-0.528
Styrene	16.75	15.33	1.093 ok	1.093	1.033-1.153
1,1,1-Trichloroethane	8.86	7.64	1.160 ok	1.158	1.098-1.218
1,1,1,2-Tetrachloroethane	15.38	15.33	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.91	15.33	1.103 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.61	9.82	1.284 ok	1.284	1.224-1.344
1,2,4-Trichlorobenzene	23.23	15.33	1.515 ok	1.515	1.455-1.575
1,2,3-Trichloropropane	17.10	15.33	1.115 ok	1.115	1.055-1.175
1,2,3-Trimethylbenzene	20.23	15.33	1.320 ok	1.319	1.259-1.379
1,2,4-Trimethylbenzene	19.62	15.33	1.280 ok	1.280	1.220-1.340
1,3,5-Trimethylbenzene	19.01	15.33	1.240 ok	1.240	1.180-1.300
2,2,4-Trimethylpentane	10.67	9.82	1.087 ok	1.087	1.027-1.147
Tertiary Butyl Alcohol	5.58	7.64	0.730 ok	0.727	0.667-0.787
Tetrachloroethylene	14.45	15.33	0.943 ok	0.943	0.883-1.003
Tetrahydrofuran	8.29	7.64	1.085 ok	1.079	1.019-1.139
Toluene	12.95	9.82	1.319 ok	1.319	1.259-1.379
Trichloroethylene	10.64	9.82	1.084 ok	1.083	1.023-1.143
Trichlorofluoromethane	4.92	7.64	0.644 ok	0.643	0.583-0.703
Vinyl chloride	3.91	7.64	0.512 ok	0.511	0.451-0.571
Vinyl Acetate	6.81	7.64	0.891 ok	0.888	0.828-0.948
m,p-Xylene	16.23	15.33	1.059 ok	1.058	0.998-1.118
o-Xylene	16.90	15.33	1.102 ok	1.102	1.042-1.162
TVHC As Equiv Pentane	5.20	15.33	0.339 ok	0.340	0.280-0.400

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.64 ok	7.65	7.32-7.98	456086	ok 443667	266200-621134
1,4-Difluorobenzene	9.82 ok	9.82	9.49-10.15	2018572	ok 1887207	1132324-2642090
Chlorobenzene-D5	15.33 ok	15.34	15.01-15.67	942297	ok 1019287	611572-1427002

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15	
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15	
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15	
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15	
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15	
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15	
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15	
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.78	7.57	0.631 ok	0.628	0.568-0.688
Acrolein	4.65	7.57	0.614 ok	0.613	0.553-0.673
Acrylonitrile	5.15	7.57	0.680 ok	0.677	0.617-0.737
Acetonitrile	4.57	7.57	0.604 ok	0.601	0.541-0.661
1,3-Butadiene	3.97	7.57	0.524 ok	0.523	0.463-0.583
Benzene	9.31	9.73	0.957 ok	0.955	0.895-1.015
Bromobenzene	17.84	15.25	1.170 ok	1.169	1.109-1.229
Bromodichloromethane	10.51	9.73	1.080 ok	1.080	1.020-1.140
Bromoform	16.22	15.25	1.064 ok	1.063	1.003-1.123
Bromomethane	4.16	7.57	0.550 ok	0.549	0.489-0.609
Bromoethene	4.54	7.57	0.600 ok	0.600	0.540-0.660
n-Butane	4.00	7.57	0.528 ok	0.528	0.468-0.588
Benzyl Chloride	19.78	15.25	1.297 ok	1.295	1.235-1.355
n-Butylbenzene	20.83	15.25	1.366 ok	1.363	1.303-1.423
sec-Butylbenzene	19.96	15.25	1.309 ok	1.308	1.248-1.368
tert-Butylbenzene	19.54	15.25	1.281 ok	1.281	1.221-1.341
Carbon disulfide	5.76	7.57	0.761 ok	0.761	0.701-0.821
Chlorobenzene	15.32	15.25	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.52	7.57	0.465 ok	0.464	0.404-0.524
Chloroethane	4.28	7.57	0.565 ok	0.565	0.505-0.625
Chlorotrifluoroethene	3.55	7.57	0.469 ok	0.469	0.409-0.529
Chloroform	7.71	7.57	1.018 ok	1.019	0.959-1.079
Chloromethane	3.70	7.57	0.489 ok	0.489	0.429-0.549
3-Chloropropene	5.61	7.57	0.741 ok	0.740	0.680-0.800
2-Chlorotoluene	18.50	15.25	1.213 ok	1.211	1.151-1.271
Carbon tetrachloride	9.47	7.57	1.251 ok	1.251	1.191-1.311
Cyclohexane	9.60	9.73	0.987 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.56	7.57	0.867 ok	0.866	0.806-0.926
1,1-Dichloroethylene	5.39	7.57	0.712 ok	0.712	0.652-0.772
1,2-Dibromoethane (EDB)	13.77	15.25	0.903 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.53	7.57	1.127 ok	1.124	1.064-1.184
1,2-Dichloropropane	10.29	9.73	1.058 ok	1.055	0.995-1.115
1,3-Dichloropropane	12.95	9.73	1.331 ok	1.327	1.267-1.387
1,4-Dioxane	10.73	9.73	1.103 ok	1.091	1.031-1.151
Dichlorodifluoromethane	3.59	7.57	0.474 ok	0.474	0.414-0.534
Dichlorofluoromethane	4.35	7.57	0.575 ok	0.574	0.514-0.634
Dibromochloromethane	13.44	15.25	0.881 ok	0.880	0.820-0.940
Dibromomethane	10.24	9.73	1.052 ok	1.052	0.992-1.112
trans-1,2-Dichloroethylene	6.36	7.57	0.840 ok	0.839	0.779-0.899

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15	
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15	
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15	
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15	
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15	
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15	
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15	
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.41	7.57	0.979 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	11.67	9.73	1.199 ok	1.196	1.136-1.256
m-Dichlorobenzene	19.77	15.25	1.296 ok	1.295	1.235-1.355
o-Dichlorobenzene	20.36	15.25	1.335 ok	1.333	1.273-1.393
p-Dichlorobenzene	19.87	15.25	1.303 ok	1.302	1.242-1.362
trans-1,3-Dichloropropene	12.37	9.73	1.271 ok	1.267	1.207-1.327
Di-Isopropyl ether	7.68	7.57	1.015 ok	1.009	0.949-1.069
2,3-Dimethylpentane	9.91	9.73	1.018 ok	1.017	0.957-1.077
2,4-Dimethylpentane	8.56	7.57	1.131 ok	1.132	1.072-1.192
Ethanol	4.40	7.57	0.581 ok	0.579	0.519-0.639
Ethylbenzene	15.91	15.25	1.043 ok	1.041	0.981-1.101
Ethyl Acetate	7.40	7.57	0.978 ok	1.010	0.950-1.070
Ethyl Methacrylate	13.43	15.25	0.881 ok	0.874	0.814-0.934
4-Ethyltoluene	18.83	15.25	1.235 ok	1.233	1.173-1.293
Freon 113	5.72	7.57	0.756 ok	0.756	0.696-0.816
Freon 114	3.77	7.57	0.498 ok	0.498	0.438-0.558
Freon 123	4.66	7.57	0.616 ok	0.615	0.555-0.675
Freon 123A	4.70	7.57	0.621 ok	0.621	0.561-0.681
Freon 142B	3.69	7.57	0.487 ok	0.487	0.427-0.547
Freon 152A	3.48	7.57	0.460 ok	0.460	0.400-0.520
Heptane	10.95	9.73	1.125 ok	1.124	1.064-1.184
Hexachlorobutadiene	23.20	15.25	1.521 ok	1.521	1.461-1.581
Hexachloroethane	21.25	15.25	1.393 ok	1.393	1.333-1.453
Hexane	7.61	7.57	1.005 ok	1.005	0.945-1.065
Iodomethane	5.33	7.57	0.704 ok	0.704	0.644-0.764
Isopropylbenzene	17.74	15.25	1.163 ok	1.163	1.103-1.223
Isopropyl Alcohol	5.00	7.57	0.661 ok	0.655	0.595-0.715
p-Isopropyltoluene	20.21	15.25	1.325 ok	1.324	1.264-1.384
Methylene chloride	5.50	7.57	0.727 ok	0.727	0.667-0.787
Methyl Tert Butyl Ether	6.69	7.57	0.884 ok	0.877	0.817-0.937
Methylmethacrylate	10.97	9.73	1.127 ok	1.117	1.057-1.177
alpha-Methylstyrene	19.22	15.25	1.260 ok	1.258	1.198-1.318
Naphthalene	22.77	15.25	1.493 ok	1.492	1.432-1.552
Nonane	17.23	15.25	1.130 ok	1.129	1.069-1.189
Octane	14.26	15.25	0.935 ok	0.934	0.874-0.994
Pentane	5.15	7.57	0.680 ok	0.680	0.620-0.740
n-Propylbenzene	18.60	15.25	1.220 ok	1.217	1.157-1.277
Propylene	3.55	7.57	0.469 ok	0.468	0.408-0.528
Styrene	16.75	15.25	1.098 ok	1.094	1.034-1.154

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
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Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15	Reporting this level
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15	
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15	
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15	
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15	
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15	
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15	
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15	
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
1,1,1-Trichloroethane	8.78	7.57	1.160 ok	1.160	1.100-1.220
1,1,1,2-Tetrachloroethane	15.30	15.25	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.85	15.25	1.105 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.54	9.73	1.289 ok	1.286	1.226-1.346
1,2,4-Trichlorobenzene	23.09	15.25	1.514 ok	1.512	1.452-1.572
1,2,3-Trichloropropane	17.05	15.25	1.118 ok	1.116	1.056-1.176
1,2,3-Trimethylbenzene	20.19	15.25	1.324 ok	1.322	1.262-1.382
1,2,4-Trimethylbenzene	19.57	15.25	1.283 ok	1.282	1.222-1.342
1,3,5-Trimethylbenzene	18.95	15.25	1.243 ok	1.241	1.181-1.301
2,2,4-Trimethylpentane	10.59	9.73	1.088 ok	1.088	1.028-1.148
Tertiary Butyl Alcohol	5.56	7.57	0.734 ok	0.725	0.665-0.785
Tetrachloroethylene	14.37	15.25	0.942 ok	0.942	0.882-1.002
Tetrahydrofuran	8.28	7.57	1.094 ok	1.081	1.021-1.141
Toluene	12.89	9.73	1.325 ok	1.322	1.262-1.382
Trichloroethylene	10.56	9.73	1.085 ok	1.085	1.025-1.145
Trichlorofluoromethane	4.86	7.57	0.642 ok	0.641	0.581-0.701
Vinyl chloride	3.86	7.57	0.510 ok	0.510	0.450-0.570
m,p-Xylene	16.17	15.25	1.060 ok	1.058	0.998-1.118
o-Xylene	16.83	15.25	1.104 ok	1.103	1.043-1.163
TVHC As Equiv Pentane	5.15	15.25	0.338 ok	0.337	0.277-0.397

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.57 ok	7.57	7.24-7.90	458957	ok 432366	259420-605312
1,4-Difluorobenzene	9.73 ok	9.74	9.41-10.07	2147588	ok 1952080	1171248-2732912
Chlorobenzene-D5	15.25 ok	15.25	14.92-15.58	1018488	ok 1006710	604026-1409394

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15 Reporting this level
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.78	7.56	0.632 ok	0.628	0.568-0.688
Acrolein	4.65	7.56	0.615 ok	0.613	0.553-0.673
Acrylonitrile	5.14	7.56	0.680 ok	0.677	0.617-0.737
Acetonitrile	4.56	7.56	0.603 ok	0.601	0.541-0.661
1,3-Butadiene	3.96	7.56	0.524 ok	0.523	0.463-0.583
Benzene	9.30	9.73	0.956 ok	0.955	0.895-1.015
Bromobenzene	17.84	15.25	1.170 ok	1.169	1.109-1.229
Bromodichloromethane	10.51	9.73	1.080 ok	1.080	1.020-1.140
Bromoform	16.22	15.25	1.064 ok	1.063	1.003-1.123
Bromomethane	4.15	7.56	0.549 ok	0.549	0.489-0.609
Bromoethene	4.54	7.56	0.601 ok	0.600	0.540-0.660
n-Butane	4.00	7.56	0.529 ok	0.528	0.468-0.588
Benzyl Chloride	19.76	15.25	1.296 ok	1.295	1.235-1.355
n-Butylbenzene	20.80	15.25	1.364 ok	1.363	1.303-1.423
sec-Butylbenzene	19.95	15.25	1.308 ok	1.308	1.248-1.368
tert-Butylbenzene	19.54	15.25	1.281 ok	1.281	1.221-1.341
Carbon disulfide	5.76	7.56	0.762 ok	0.761	0.701-0.821
Chlorobenzene	15.32	15.25	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.51	7.56	0.464 ok	0.464	0.404-0.524
Chloroethane	4.28	7.56	0.566 ok	0.565	0.505-0.625
Chlorotrifluoroethene	3.55	7.56	0.470 ok	0.469	0.409-0.529
Chloroform	7.71	7.56	1.020 ok	1.019	0.959-1.079
Chloromethane	3.70	7.56	0.489 ok	0.489	0.429-0.549
3-Chloropropene	5.60	7.56	0.741 ok	0.740	0.680-0.800
2-Chlorotoluene	18.48	15.25	1.212 ok	1.211	1.151-1.271
Carbon tetrachloride	9.46	7.56	1.251 ok	1.251	1.191-1.311
Cyclohexane	9.60	9.73	0.987 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.56	7.56	0.868 ok	0.866	0.806-0.926
1,1-Dichloroethylene	5.39	7.56	0.713 ok	0.712	0.652-0.772
1,2-Dibromoethane (EDB)	13.76	15.25	0.902 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.51	7.56	1.126 ok	1.124	1.064-1.184
1,2-Dichloropropane	10.28	9.73	1.057 ok	1.055	0.995-1.115
1,3-Dichloropropane	12.94	9.73	1.330 ok	1.327	1.267-1.387
1,4-Dioxane	10.70	9.73	1.100 ok	1.091	1.031-1.151
Dichlorodifluoromethane	3.59	7.56	0.475 ok	0.474	0.414-0.534
Dichlorofluoromethane	4.35	7.56	0.575 ok	0.574	0.514-0.634
Dibromochloromethane	13.43	15.25	0.881 ok	0.880	0.820-0.940
Dibromomethane	10.24	9.73	1.052 ok	1.052	0.992-1.112
trans-1,2-Dichloroethylene	6.35	7.56	0.840 ok	0.839	0.779-0.899

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.41	7.56	0.980	ok 0.978	0.918-1.038
cis-1,3-Dichloropropene	11.66	9.73	1.198	ok 1.196	1.136-1.256
m-Dichlorobenzene	19.76	15.25	1.296	ok 1.295	1.235-1.355
o-Dichlorobenzene	20.34	15.25	1.334	ok 1.333	1.273-1.393
p-Dichlorobenzene	19.87	15.25	1.303	ok 1.302	1.242-1.362
trans-1,3-Dichloropropene	12.36	9.73	1.270	ok 1.267	1.207-1.327
Di-Isopropyl ether	7.67	7.56	1.015	ok 1.009	0.949-1.069
2,3-Dimethylpentane	9.90	9.73	1.017	ok 1.017	0.957-1.077
2,4-Dimethylpentane	8.56	7.56	1.132	ok 1.132	1.072-1.192
Ethanol	4.39	7.56	0.581	ok 0.579	0.519-0.639
Ethylbenzene	15.90	15.25	1.043	ok 1.041	0.981-1.101
Ethyl Acetate	7.75	7.56	1.025	ok 1.010	0.950-1.070
Ethyl Acrylate	10.59	9.73	1.088	ok 1.065	1.005-1.125
Ethyl Methacrylate	13.37	15.25	0.877	ok 0.874	0.814-0.934
4-Ethyltoluene	18.82	15.25	1.234	ok 1.233	1.173-1.293
Freon 113	5.72	7.56	0.757	ok 0.756	0.696-0.816
Freon 114	3.78	7.56	0.500	ok 0.498	0.438-0.558
Freon 123	4.65	7.56	0.615	ok 0.615	0.555-0.675
Freon 123A	4.70	7.56	0.622	ok 0.621	0.561-0.681
Freon 142B	3.69	7.56	0.488	ok 0.487	0.427-0.547
Freon 152A	3.48	7.56	0.460	ok 0.460	0.400-0.520
Heptane	10.94	9.73	1.124	ok 1.124	1.064-1.184
Hexachlorobutadiene	23.20	15.25	1.521	ok 1.521	1.461-1.581
Hexachloroethane	21.25	15.25	1.393	ok 1.393	1.333-1.453
Hexane	7.61	7.56	1.007	ok 1.005	0.945-1.065
2-Hexanone	13.48	15.25	0.884	ok 0.873	0.813-0.933
Iodomethane	5.33	7.56	0.705	ok 0.704	0.644-0.764
Isopropylbenzene	17.74	15.25	1.163	ok 1.163	1.103-1.223
Isopropyl Alcohol	4.99	7.56	0.660	ok 0.655	0.595-0.715
p-Isopropyltoluene	20.20	15.25	1.325	ok 1.324	1.264-1.384
Methyl Acrylate	7.61	7.56	1.007	ok 1.010	0.950-1.070
Methylene chloride	5.50	7.56	0.728	ok 0.727	0.667-0.787
Methyl ethyl ketone	7.06	7.56	0.934	ok 0.923	0.863-0.983
Methyl Isobutyl Ketone	11.82	9.73	1.215	ok 1.205	1.145-1.265
Methyl Tert Butyl Ether	6.67	7.56	0.882	ok 0.877	0.817-0.937
Methylmethacrylate	10.93	9.73	1.123	ok 1.117	1.057-1.177
alpha-Methylstyrene	19.21	15.25	1.260	ok 1.258	1.198-1.318
Naphthalene	22.76	15.25	1.492	ok 1.492	1.432-1.552
Nonane	17.22	15.25	1.129	ok 1.129	1.069-1.189

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Octane	14.25	15.25	0.934 ok	0.934	0.874-0.994
Pentane	5.15	7.56	0.681 ok	0.680	0.620-0.740
n-Propylbenzene	18.57	15.25	1.218 ok	1.217	1.157-1.277
Propylene	3.54	7.56	0.468 ok	0.468	0.408-0.528
Styrene	16.70	15.25	1.095 ok	1.094	1.034-1.154
1,1,1-Trichloroethane	8.78	7.56	1.161 ok	1.160	1.100-1.220
1,1,1,2-Tetrachloroethane	15.30	15.25	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.84	15.25	1.104 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.54	9.73	1.289 ok	1.286	1.226-1.346
1,2,4-Trichlorobenzene	23.07	15.25	1.513 ok	1.512	1.452-1.572
1,2,3-Trichloropropane	17.03	15.25	1.117 ok	1.116	1.056-1.176
1,2,3-Trimethylbenzene	20.17	15.25	1.323 ok	1.322	1.262-1.382
1,2,4-Trimethylbenzene	19.56	15.25	1.283 ok	1.282	1.222-1.342
1,3,5-Trimethylbenzene	18.94	15.25	1.242 ok	1.241	1.181-1.301
2,2,4-Trimethylpentane	10.59	9.73	1.088 ok	1.088	1.028-1.148
Tertiary Butyl Alcohol	5.54	7.56	0.733 ok	0.725	0.665-0.785
Tetrachloroethylene	14.39	15.25	0.944 ok	0.942	0.882-1.002
Tetrahydrofuran	8.26	7.56	1.093 ok	1.081	1.021-1.141
Toluene	12.89	9.73	1.325 ok	1.322	1.262-1.382
Trichloroethylene	10.56	9.73	1.085 ok	1.085	1.025-1.145
Trichlorofluoromethane	4.85	7.56	0.642 ok	0.641	0.581-0.701
Vinyl chloride	3.86	7.56	0.511 ok	0.510	0.450-0.570
Vinyl Acetate	6.76	7.56	0.894 ok	0.888	0.828-0.948
m,p-Xylene	16.15	15.25	1.059 ok	1.058	0.998-1.118
o-Xylene	16.83	15.25	1.104 ok	1.103	1.043-1.163
TVHC As Equiv Pentane	5.14	15.25	0.337 ok	0.337	0.277-0.397

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56 ok	7.57	7.24-7.90	451101 ok	432366	259420-605312
1,4-Difluorobenzene	9.73 ok	9.74	9.41-10.07	2121533 ok	1952080	1171248-2732912
Chlorobenzene-D5	15.25 ok	15.25	14.92-15.58	1002644 ok	1006710	604026-1409394

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15 Reporting this level
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.78	7.56	0.632 ok	0.628	0.568-0.688
Acrolein	4.65	7.56	0.615 ok	0.613	0.553-0.673
Acrylonitrile	5.14	7.56	0.680 ok	0.677	0.617-0.737
Acetonitrile	4.56	7.56	0.603 ok	0.601	0.541-0.661
1,3-Butadiene	3.96	7.56	0.524 ok	0.523	0.463-0.583
Benzene	9.30	9.73	0.956 ok	0.955	0.895-1.015
Bromobenzene	17.82	15.25	1.169 ok	1.169	1.109-1.229
Bromodichloromethane	10.51	9.73	1.080 ok	1.080	1.020-1.140
Bromoform	16.21	15.25	1.063 ok	1.063	1.003-1.123
Bromomethane	4.15	7.56	0.549 ok	0.549	0.489-0.609
Bromoethene	4.54	7.56	0.601 ok	0.600	0.540-0.660
n-Butane	3.99	7.56	0.528 ok	0.528	0.468-0.588
Benzyl Chloride	19.75	15.25	1.295 ok	1.295	1.235-1.355
n-Butylbenzene	20.79	15.25	1.363 ok	1.363	1.303-1.423
sec-Butylbenzene	19.95	15.25	1.308 ok	1.308	1.248-1.368
tert-Butylbenzene	19.54	15.25	1.281 ok	1.281	1.221-1.341
Carbon disulfide	5.75	7.56	0.761 ok	0.761	0.701-0.821
Chlorobenzene	15.32	15.25	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.51	7.56	0.464 ok	0.464	0.404-0.524
Chloroethane	4.28	7.56	0.566 ok	0.565	0.505-0.625
Chlorotrifluoroethene	3.54	7.56	0.468 ok	0.469	0.409-0.529
Chloroform	7.71	7.56	1.020 ok	1.019	0.959-1.079
Chloromethane	3.70	7.56	0.489 ok	0.489	0.429-0.549
3-Chloropropene	5.60	7.56	0.741 ok	0.740	0.680-0.800
2-Chlorotoluene	18.47	15.25	1.211 ok	1.211	1.151-1.271
Carbon tetrachloride	9.46	7.56	1.251 ok	1.251	1.191-1.311
Cyclohexane	9.60	9.73	0.987 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.55	7.56	0.866 ok	0.866	0.806-0.926
1,1-Dichloroethylene	5.39	7.56	0.713 ok	0.712	0.652-0.772
1,2-Dibromoethane (EDB)	13.74	15.25	0.901 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.51	7.56	1.126 ok	1.124	1.064-1.184
1,2-Dichloropropane	10.27	9.73	1.055 ok	1.055	0.995-1.115
1,3-Dichloropropane	12.93	9.73	1.329 ok	1.327	1.267-1.387
1,4-Dioxane	10.68	9.73	1.098 ok	1.091	1.031-1.151
Dichlorodifluoromethane	3.59	7.56	0.475 ok	0.474	0.414-0.534
Dichlorofluoromethane	4.34	7.56	0.574 ok	0.574	0.514-0.634
Dibromochloromethane	13.43	15.25	0.881 ok	0.880	0.820-0.940
Dibromomethane	10.24	9.73	1.052 ok	1.052	0.992-1.112
trans-1,2-Dichloroethylene	6.35	7.56	0.840 ok	0.839	0.779-0.899

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15 Reporting this level
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.40	7.56	0.979 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	11.65	9.73	1.197 ok	1.196	1.136-1.256
m-Dichlorobenzene	19.75	15.25	1.295 ok	1.295	1.235-1.355
o-Dichlorobenzene	20.34	15.25	1.334 ok	1.333	1.273-1.393
p-Dichlorobenzene	19.86	15.25	1.302 ok	1.302	1.242-1.362
trans-1,3-Dichloropropene	12.34	9.73	1.268 ok	1.267	1.207-1.327
Di-Isopropyl ether	7.66	7.56	1.013 ok	1.009	0.949-1.069
2,3-Dimethylpentane	9.90	9.73	1.017 ok	1.017	0.957-1.077
2,4-Dimethylpentane	8.56	7.56	1.132 ok	1.132	1.072-1.192
Ethanol	4.40	7.56	0.582 ok	0.579	0.519-0.639
Ethylbenzene	15.88	15.25	1.041 ok	1.041	0.981-1.101
Ethyl Acetate	7.72	7.56	1.021 ok	1.010	0.950-1.070
Ethyl Acrylate	10.42	9.73	1.071 ok	1.065	1.005-1.125
Ethyl Methacrylate	13.35	15.25	0.875 ok	0.874	0.814-0.934
4-Ethyltoluene	18.80	15.25	1.233 ok	1.233	1.173-1.293
Freon 113	5.72	7.56	0.757 ok	0.756	0.696-0.816
Freon 114	3.77	7.56	0.499 ok	0.498	0.438-0.558
Freon 123	4.65	7.56	0.615 ok	0.615	0.555-0.675
Freon 123A	4.69	7.56	0.620 ok	0.621	0.561-0.681
Freon 142B	3.69	7.56	0.488 ok	0.487	0.427-0.547
Freon 152A	3.48	7.56	0.460 ok	0.460	0.400-0.520
Heptane	10.94	9.73	1.124 ok	1.124	1.064-1.184
Hexachlorobutadiene	23.20	15.25	1.521 ok	1.521	1.461-1.581
Hexachloroethane	21.25	15.25	1.393 ok	1.393	1.333-1.453
Hexane	7.60	7.56	1.005 ok	1.005	0.945-1.065
2-Hexanone	13.37	15.25	0.877 ok	0.873	0.813-0.933
Iodomethane	5.33	7.56	0.705 ok	0.704	0.644-0.764
Isopropylbenzene	17.73	15.25	1.163 ok	1.163	1.103-1.223
Isopropyl Alcohol	4.98	7.56	0.659 ok	0.655	0.595-0.715
p-Isopropyltoluene	20.20	15.25	1.325 ok	1.324	1.264-1.384
Methyl Acrylate	7.71	7.56	1.020 ok	1.010	0.950-1.070
Methylene chloride	5.50	7.56	0.728 ok	0.727	0.667-0.787
Methyl ethyl ketone	7.05	7.56	0.933 ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	11.79	9.73	1.212 ok	1.205	1.145-1.265
Methyl Tert Butyl Ether	6.67	7.56	0.882 ok	0.877	0.817-0.937
Methylmethacrylate	10.91	9.73	1.121 ok	1.117	1.057-1.177
alpha-Methylstyrene	19.19	15.25	1.258 ok	1.258	1.198-1.318
Naphthalene	22.76	15.25	1.492 ok	1.492	1.432-1.552
Nonane	17.22	15.25	1.129 ok	1.129	1.069-1.189

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Octane	14.25	15.25	0.934 ok	0.934	0.874-0.994
Pentane	5.14	7.56	0.680 ok	0.680	0.620-0.740
n-Propylbenzene	18.56	15.25	1.217 ok	1.217	1.157-1.277
Propylene	3.54	7.56	0.468 ok	0.468	0.408-0.528
Styrene	16.69	15.25	1.094 ok	1.094	1.034-1.154
1,1,1-Trichloroethane	8.78	7.56	1.161 ok	1.160	1.100-1.220
1,1,1,2-Tetrachloroethane	15.30	15.25	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.83	15.25	1.104 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.53	9.73	1.288 ok	1.286	1.226-1.346
1,2,4-Trichlorobenzene	23.07	15.25	1.513 ok	1.512	1.452-1.572
1,2,3-Trichloropropane	17.02	15.25	1.116 ok	1.116	1.056-1.176
1,2,3-Trimethylbenzene	20.17	15.25	1.323 ok	1.322	1.262-1.382
1,2,4-Trimethylbenzene	19.56	15.25	1.283 ok	1.282	1.222-1.342
1,3,5-Trimethylbenzene	18.94	15.25	1.242 ok	1.241	1.181-1.301
2,2,4-Trimethylpentane	10.59	9.73	1.088 ok	1.088	1.028-1.148
Tertiary Butyl Alcohol	5.53	7.56	0.731 ok	0.725	0.665-0.785
Tetrachloroethylene	14.38	15.25	0.943 ok	0.942	0.882-1.002
Tetrahydrofuran	8.23	7.56	1.089 ok	1.081	1.021-1.141
Toluene	12.88	9.73	1.324 ok	1.322	1.262-1.382
Trichloroethylene	10.56	9.73	1.085 ok	1.085	1.025-1.145
Trichlorofluoromethane	4.85	7.56	0.642 ok	0.641	0.581-0.701
Vinyl chloride	3.86	7.56	0.511 ok	0.510	0.450-0.570
Vinyl Acetate	6.75	7.56	0.893 ok	0.888	0.828-0.948
m,p-Xylene	16.15	15.25	1.059 ok	1.058	0.998-1.118
o-Xylene	16.82	15.25	1.103 ok	1.103	1.043-1.163
TVHC As Equiv Pentane	5.14	15.25	0.337 ok	0.337	0.277-0.397

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56 ok	7.57	7.24-7.90	444104 ok	432366	259420-605312
1,4-Difluorobenzene	9.73 ok	9.74	9.41-10.07	2072962 ok	1952080	1171248-2732912
Chlorobenzene-D5	15.25 ok	15.25	14.92-15.58	971603 ok	1006710	604026-1409394

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15 Reporting this level
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.74	7.57	0.626 ok	0.628	0.568-0.688
Acrolein	4.64	7.57	0.613 ok	0.613	0.553-0.673
Acrylonitrile	5.12	7.57	0.676 ok	0.677	0.617-0.737
Acetonitrile	4.54	7.57	0.600 ok	0.601	0.541-0.661
1,3-Butadiene	3.96	7.57	0.523 ok	0.523	0.463-0.583
Benzene	9.30	9.74	0.955 ok	0.955	0.895-1.015
Bromobenzene	17.81	15.26	1.167 ok	1.169	1.109-1.229
Bromodichloromethane	10.51	9.74	1.079 ok	1.080	1.020-1.140
Bromoform	16.20	15.26	1.062 ok	1.063	1.003-1.123
Bromomethane	4.16	7.57	0.550 ok	0.549	0.489-0.609
Bromoethene	4.54	7.57	0.600 ok	0.600	0.540-0.660
n-Butane	4.00	7.57	0.528 ok	0.528	0.468-0.588
Benzyl Chloride	19.73	15.26	1.293 ok	1.295	1.235-1.355
n-Butylbenzene	20.79	15.26	1.362 ok	1.363	1.303-1.423
sec-Butylbenzene	19.94	15.26	1.307 ok	1.308	1.248-1.368
tert-Butylbenzene	19.53	15.26	1.280 ok	1.281	1.221-1.341
Carbon disulfide	5.76	7.57	0.761 ok	0.761	0.701-0.821
Chlorobenzene	15.32	15.26	1.004 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.52	7.57	0.465 ok	0.464	0.404-0.524
Chloroethane	4.29	7.57	0.567 ok	0.565	0.505-0.625
Chlorotrifluoroethene	3.55	7.57	0.469 ok	0.469	0.409-0.529
Chloroform	7.71	7.57	1.018 ok	1.019	0.959-1.079
Chloromethane	3.71	7.57	0.490 ok	0.489	0.429-0.549
3-Chloropropene	5.61	7.57	0.741 ok	0.740	0.680-0.800
2-Chlorotoluene	18.45	15.26	1.209 ok	1.211	1.151-1.271
Carbon tetrachloride	9.47	7.57	1.251 ok	1.251	1.191-1.311
Cyclohexane	9.60	9.74	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.56	7.57	0.867 ok	0.866	0.806-0.926
1,1-Dichloroethylene	5.39	7.57	0.712 ok	0.712	0.652-0.772
1,2-Dibromoethane (EDB)	13.73	15.26	0.900 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.51	7.57	1.124 ok	1.124	1.064-1.184
1,2-Dichloropropane	10.26	9.74	1.053 ok	1.055	0.995-1.115
1,3-Dichloropropane	12.91	9.74	1.325 ok	1.327	1.267-1.387
1,4-Dioxane	10.59	9.74	1.087 ok	1.091	1.031-1.151
Dichlorodifluoromethane	3.59	7.57	0.474 ok	0.474	0.414-0.534
Dichlorofluoromethane	4.35	7.57	0.575 ok	0.574	0.514-0.634
Dibromochloromethane	13.41	15.26	0.879 ok	0.880	0.820-0.940
Dibromomethane	10.24	9.74	1.051 ok	1.052	0.992-1.112
trans-1,2-Dichloroethylene	6.36	7.57	0.840 ok	0.839	0.779-0.899

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15 Reporting this level
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.40	7.57	0.978 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	11.63	9.74	1.194 ok	1.196	1.136-1.256
m-Dichlorobenzene	19.74	15.26	1.294 ok	1.295	1.235-1.355
o-Dichlorobenzene	20.33	15.26	1.332 ok	1.333	1.273-1.393
p-Dichlorobenzene	19.84	15.26	1.300 ok	1.302	1.242-1.362
trans-1,3-Dichloropropene	12.32	9.74	1.265 ok	1.267	1.207-1.327
Di-Isopropyl ether	7.62	7.57	1.007 ok	1.009	0.949-1.069
2,3-Dimethylpentane	9.90	9.74	1.016 ok	1.017	0.957-1.077
2,4-Dimethylpentane	8.57	7.57	1.132 ok	1.132	1.072-1.192
Ethanol	4.38	7.57	0.579 ok	0.579	0.519-0.639
Ethylbenzene	15.87	15.26	1.040 ok	1.041	0.981-1.101
Ethyl Acetate	7.66	7.57	1.012 ok	1.010	0.950-1.070
Ethyl Acrylate	10.32	9.74	1.060 ok	1.065	1.005-1.125
Ethyl Methacrylate	13.30	15.26	0.872 ok	0.874	0.814-0.934
4-Ethyltoluene	18.79	15.26	1.231 ok	1.233	1.173-1.293
Freon 113	5.73	7.57	0.757 ok	0.756	0.696-0.816
Freon 114	3.78	7.57	0.499 ok	0.498	0.438-0.558
Freon 115	3.41	7.57	0.450 ok	0.449	0.389-0.509
Freon 123	4.66	7.57	0.616 ok	0.615	0.555-0.675
Freon 123A	4.70	7.57	0.621 ok	0.621	0.561-0.681
Freon 142B	3.69	7.57	0.487 ok	0.487	0.427-0.547
Freon 152A	3.49	7.57	0.461 ok	0.460	0.400-0.520
Heptane	10.94	9.74	1.123 ok	1.124	1.064-1.184
Hexachlorobutadiene	23.20	15.26	1.520 ok	1.521	1.461-1.581
Hexachloroethane	21.25	15.26	1.393 ok	1.393	1.333-1.453
Hexane	7.61	7.57	1.005 ok	1.005	0.945-1.065
2-Hexanone	13.27	15.26	0.870 ok	0.873	0.813-0.933
Iodomethane	5.33	7.57	0.704 ok	0.704	0.644-0.764
Isopropylbenzene	17.73	15.26	1.162 ok	1.163	1.103-1.223
Isopropyl Alcohol	4.95	7.57	0.654 ok	0.655	0.595-0.715
p-Isopropyltoluene	20.19	15.26	1.323 ok	1.324	1.264-1.384
Methyl Acrylate	7.64	7.57	1.009 ok	1.010	0.950-1.070
Methylene chloride	5.50	7.57	0.727 ok	0.727	0.667-0.787
Methyl ethyl ketone	6.97	7.57	0.921 ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	11.70	9.74	1.201 ok	1.205	1.145-1.265
Methyl Tert Butyl Ether	6.62	7.57	0.875 ok	0.877	0.817-0.937
Methylmethacrylate	10.85	9.74	1.114 ok	1.117	1.057-1.177
alpha-Methylstyrene	19.18	15.26	1.257 ok	1.258	1.198-1.318
Naphthalene	22.74	15.26	1.490 ok	1.492	1.432-1.552

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15 Reporting this level
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Nonane	17.22	15.26	1.128 ok	1.129	1.069-1.189
Octane	14.24	15.26	0.933 ok	0.934	0.874-0.994
Pentane	5.15	7.57	0.680 ok	0.680	0.620-0.740
n-Propylbenzene	18.55	15.26	1.216 ok	1.217	1.157-1.277
Propylene	3.54	7.57	0.468 ok	0.468	0.408-0.528
Styrene	16.66	15.26	1.092 ok	1.094	1.034-1.154
1,1,1-Trichloroethane	8.78	7.57	1.160 ok	1.160	1.100-1.220
1,1,1,2-Tetrachloroethane	15.30	15.26	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.82	15.26	1.102 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.52	9.74	1.285 ok	1.286	1.226-1.346
1,2,4-Trichlorobenzene	23.06	15.26	1.511 ok	1.512	1.452-1.572
1,2,3-Trichloropropane	17.00	15.26	1.114 ok	1.116	1.056-1.176
1,2,3-Trimethylbenzene	20.16	15.26	1.321 ok	1.322	1.262-1.382
1,2,4-Trimethylbenzene	19.55	15.26	1.281 ok	1.282	1.222-1.342
1,3,5-Trimethylbenzene	18.93	15.26	1.240 ok	1.241	1.181-1.301
2,2,4-Trimethylpentane	10.59	9.74	1.087 ok	1.088	1.028-1.148
Tertiary Butyl Alcohol	5.47	7.57	0.723 ok	0.725	0.665-0.785
Tetrachloroethylene	14.37	15.26	0.942 ok	0.942	0.882-1.002
Tetrahydrofuran	8.15	7.57	1.077 ok	1.081	1.021-1.141
Toluene	12.87	9.74	1.321 ok	1.322	1.262-1.382
Trichloroethylene	10.56	9.74	1.084 ok	1.085	1.025-1.145
Trichlorofluoromethane	4.86	7.57	0.642 ok	0.641	0.581-0.701
Vinyl chloride	3.86	7.57	0.510 ok	0.510	0.450-0.570
Vinyl Acetate	6.71	7.57	0.886 ok	0.888	0.828-0.948
m,p-Xylene	16.12	15.26	1.056 ok	1.058	0.998-1.118
o-Xylene	16.81	15.26	1.102 ok	1.103	1.043-1.163
TVHC As Equiv Pentane	5.15	15.26	0.337 ok	0.337	0.277-0.397

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.57 ok	7.57	7.24-7.90	421760 ok	432366	259420-605312
1,4-Difluorobenzene	9.74 ok	9.74	9.41-10.07	1935328 ok	1952080	1171248-2732912
Chlorobenzene-D5	15.26 ok	15.25	14.92-15.58	943143 ok	1006710	604026-1409394

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15 Reporting this level
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.73	7.57	0.625 ok	0.628	0.568-0.688
Acrolein	4.63	7.57	0.612 ok	0.613	0.553-0.673
Acrylonitrile	5.11	7.57	0.675 ok	0.677	0.617-0.737
Acetonitrile	4.54	7.57	0.600 ok	0.601	0.541-0.661
1,3-Butadiene	3.96	7.57	0.523 ok	0.523	0.463-0.583
Benzene	9.30	9.74	0.955 ok	0.955	0.895-1.015
Bromobenzene	17.81	15.25	1.168 ok	1.169	1.109-1.229
Bromodichloromethane	10.51	9.74	1.079 ok	1.080	1.020-1.140
Bromoform	16.20	15.25	1.062 ok	1.063	1.003-1.123
Bromomethane	4.16	7.57	0.550 ok	0.549	0.489-0.609
Bromoethene	4.54	7.57	0.600 ok	0.600	0.540-0.660
n-Butane	3.99	7.57	0.527 ok	0.528	0.468-0.588
Benzyl Chloride	19.73	15.25	1.294 ok	1.295	1.235-1.355
n-Butylbenzene	20.79	15.25	1.363 ok	1.363	1.303-1.423
sec-Butylbenzene	19.94	15.25	1.308 ok	1.308	1.248-1.368
tert-Butylbenzene	19.53	15.25	1.281 ok	1.281	1.221-1.341
Carbon disulfide	5.75	7.57	0.760 ok	0.761	0.701-0.821
Chlorobenzene	15.32	15.25	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.51	7.57	0.464 ok	0.464	0.404-0.524
Chloroethane	4.28	7.57	0.565 ok	0.565	0.505-0.625
Chlorotrifluoroethene	3.55	7.57	0.469 ok	0.469	0.409-0.529
Chloroform	7.71	7.57	1.018 ok	1.019	0.959-1.079
Chloromethane	3.70	7.57	0.489 ok	0.489	0.429-0.549
3-Chloropropene	5.60	7.57	0.740 ok	0.740	0.680-0.800
2-Chlorotoluene	18.45	15.25	1.210 ok	1.211	1.151-1.271
Carbon tetrachloride	9.47	7.57	1.251 ok	1.251	1.191-1.311
Cyclohexane	9.60	9.74	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.55	7.57	0.865 ok	0.866	0.806-0.926
1,1-Dichloroethylene	5.39	7.57	0.712 ok	0.712	0.652-0.772
1,2-Dibromoethane (EDB)	13.73	15.25	0.900 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.51	7.57	1.124 ok	1.124	1.064-1.184
1,2-Dichloropropane	10.26	9.74	1.053 ok	1.055	0.995-1.115
1,3-Dichloropropane	12.91	9.74	1.325 ok	1.327	1.267-1.387
1,4-Dioxane	10.57	9.74	1.085 ok	1.091	1.031-1.151
Dichlorodifluoromethane	3.59	7.57	0.474 ok	0.474	0.414-0.534
Dichlorofluoromethane	4.34	7.57	0.573 ok	0.574	0.514-0.634
Dibromochloromethane	13.41	15.25	0.879 ok	0.880	0.820-0.940
Dibromomethane	10.23	9.74	1.050 ok	1.052	0.992-1.112
trans-1,2-Dichloroethylene	6.35	7.57	0.839 ok	0.839	0.779-0.899

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15 Reporting this level
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.40	7.57	0.978 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	11.63	9.74	1.194 ok	1.196	1.136-1.256
m-Dichlorobenzene	19.74	15.25	1.294 ok	1.295	1.235-1.355
o-Dichlorobenzene	20.33	15.25	1.333 ok	1.333	1.273-1.393
p-Dichlorobenzene	19.84	15.25	1.301 ok	1.302	1.242-1.362
trans-1,3-Dichloropropene	12.31	9.74	1.264 ok	1.267	1.207-1.327
Di-Isopropyl ether	7.61	7.57	1.005 ok	1.009	0.949-1.069
2,3-Dimethylpentane	9.90	9.74	1.016 ok	1.017	0.957-1.077
2,4-Dimethylpentane	8.56	7.57	1.131 ok	1.132	1.072-1.192
Ethanol	4.37	7.57	0.577 ok	0.579	0.519-0.639
Ethylbenzene	15.87	15.25	1.041 ok	1.041	0.981-1.101
Ethyl Acetate	7.64	7.57	1.009 ok	1.010	0.950-1.070
Ethyl Acrylate	10.31	9.74	1.059 ok	1.065	1.005-1.125
Ethyl Methacrylate	13.30	15.25	0.872 ok	0.874	0.814-0.934
4-Ethyltoluene	18.79	15.25	1.232 ok	1.233	1.173-1.293
Freon 113	5.72	7.57	0.756 ok	0.756	0.696-0.816
Freon 114	3.77	7.57	0.498 ok	0.498	0.438-0.558
Freon 123	4.65	7.57	0.614 ok	0.615	0.555-0.675
Freon 123A	4.70	7.57	0.621 ok	0.621	0.561-0.681
Freon 142B	3.69	7.57	0.487 ok	0.487	0.427-0.547
Freon 152A	3.48	7.57	0.460 ok	0.460	0.400-0.520
Heptane	10.94	9.74	1.123 ok	1.124	1.064-1.184
Hexachlorobutadiene	23.20	15.25	1.521 ok	1.521	1.461-1.581
Hexachloroethane	21.25	15.25	1.393 ok	1.393	1.333-1.453
Hexane	7.60	7.57	1.004 ok	1.005	0.945-1.065
2-Hexanone	13.26	15.25	0.870 ok	0.873	0.813-0.933
Iodomethane	5.33	7.57	0.704 ok	0.704	0.644-0.764
Isopropylbenzene	17.73	15.25	1.163 ok	1.163	1.103-1.223
Isopropyl Alcohol	4.93	7.57	0.651 ok	0.655	0.595-0.715
p-Isopropyltoluene	20.19	15.25	1.324 ok	1.324	1.264-1.384
Methyl Acrylate	7.63	7.57	1.008 ok	1.010	0.950-1.070
Methylene chloride	5.50	7.57	0.727 ok	0.727	0.667-0.787
Methyl ethyl ketone	6.95	7.57	0.918 ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	11.69	9.74	1.200 ok	1.205	1.145-1.265
Methyl Tert Butyl Ether	6.61	7.57	0.873 ok	0.877	0.817-0.937
Methylmethacrylate	10.84	9.74	1.113 ok	1.117	1.057-1.177
alpha-Methylstyrene	19.18	15.25	1.258 ok	1.258	1.198-1.318
Naphthalene	22.74	15.25	1.491 ok	1.492	1.432-1.552
Nonane	17.22	15.25	1.129 ok	1.129	1.069-1.189

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15 Reporting this level
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Octane	14.24	15.25	0.934 ok	0.934	0.874-0.994
Pentane	5.14	7.57	0.679 ok	0.680	0.620-0.740
n-Propylbenzene	18.55	15.25	1.216 ok	1.217	1.157-1.277
Propylene	3.54	7.57	0.468 ok	0.468	0.408-0.528
Styrene	16.66	15.25	1.092 ok	1.094	1.034-1.154
1,1,1-Trichloroethane	8.78	7.57	1.160 ok	1.160	1.100-1.220
1,1,1,2-Tetrachloroethane	15.30	15.25	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.81	15.25	1.102 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.51	9.74	1.284 ok	1.286	1.226-1.346
1,2,4-Trichlorobenzene	23.06	15.25	1.512 ok	1.512	1.452-1.572
1,2,3-Trichloropropane	17.00	15.25	1.115 ok	1.116	1.056-1.176
1,2,3-Trimethylbenzene	20.16	15.25	1.322 ok	1.322	1.262-1.382
1,2,4-Trimethylbenzene	19.55	15.25	1.282 ok	1.282	1.222-1.342
1,3,5-Trimethylbenzene	18.93	15.25	1.241 ok	1.241	1.181-1.301
2,2,4-Trimethylpentane	10.59	9.74	1.087 ok	1.088	1.028-1.148
Tertiary Butyl Alcohol	5.45	7.57	0.720 ok	0.725	0.665-0.785
Tetrachloroethylene	14.37	15.25	0.942 ok	0.942	0.882-1.002
Tetrahydrofuran	8.13	7.57	1.074 ok	1.081	1.021-1.141
Toluene	12.86	9.74	1.320 ok	1.322	1.262-1.382
Trichloroethylene	10.55	9.74	1.083 ok	1.085	1.025-1.145
Trichlorofluoromethane	4.85	7.57	0.641 ok	0.641	0.581-0.701
Vinyl chloride	3.86	7.57	0.510 ok	0.510	0.450-0.570
Vinyl Acetate	6.71	7.57	0.886 ok	0.888	0.828-0.948
m,p-Xylene	16.14	15.25	1.058 ok	1.058	0.998-1.118
o-Xylene	16.81	15.25	1.102 ok	1.103	1.043-1.163
TVHC As Equiv Pentane	5.14	15.25	0.337 ok	0.337	0.277-0.397

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.57 ok	7.57	7.24-7.90	413098	ok 432366	259420-605312
1,4-Difluorobenzene	9.74 ok	9.74	9.41-10.07	1865406	ok 1952080	1171248-2732912
Chlorobenzene-D5	15.25 ok	15.25	14.92-15.58	951897	ok 1006710	604026-1409394

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.73	7.58	0.624 ok	0.628	0.568-0.688
Acrolein	4.63	7.58	0.611 ok	0.613	0.553-0.673
Acrylonitrile	5.11	7.58	0.674 ok	0.677	0.617-0.737
Acetonitrile	4.54	7.58	0.599 ok	0.601	0.541-0.661
1,3-Butadiene	3.96	7.58	0.522 ok	0.523	0.463-0.583
Benzene	9.30	9.74	0.955 ok	0.955	0.895-1.015
Bromobenzene	17.82	15.25	1.169 ok	1.169	1.109-1.229
Bromodichloromethane	10.51	9.74	1.079 ok	1.080	1.020-1.140
Bromoform	16.20	15.25	1.062 ok	1.063	1.003-1.123
Bromomethane	4.16	7.58	0.549 ok	0.549	0.489-0.609
Bromoethene	4.54	7.58	0.599 ok	0.600	0.540-0.660
n-Butane	3.99	7.58	0.526 ok	0.528	0.468-0.588
Benzyl Chloride	19.74	15.25	1.294 ok	1.295	1.235-1.355
n-Butylbenzene	20.79	15.25	1.363 ok	1.363	1.303-1.423
sec-Butylbenzene	19.95	15.25	1.308 ok	1.308	1.248-1.368
tert-Butylbenzene	19.54	15.25	1.281 ok	1.281	1.221-1.341
Carbon disulfide	5.76	7.58	0.760 ok	0.761	0.701-0.821
Chlorobenzene	15.32	15.25	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.51	7.58	0.463 ok	0.464	0.404-0.524
Chloroethane	4.28	7.58	0.565 ok	0.565	0.505-0.625
Chlorotrifluoroethene	3.55	7.58	0.468 ok	0.469	0.409-0.529
Chloroform	7.72	7.58	1.018 ok	1.019	0.959-1.079
Chloromethane	3.70	7.58	0.488 ok	0.489	0.429-0.549
3-Chloropropene	5.60	7.58	0.739 ok	0.740	0.680-0.800
2-Chlorotoluene	18.45	15.25	1.210 ok	1.211	1.151-1.271
Carbon tetrachloride	9.47	7.58	1.249 ok	1.251	1.191-1.311
Cyclohexane	9.60	9.74	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.56	7.58	0.865 ok	0.866	0.806-0.926
1,1-Dichloroethylene	5.39	7.58	0.711 ok	0.712	0.652-0.772
1,2-Dibromoethane (EDB)	13.73	15.25	0.900 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.51	7.58	1.123 ok	1.124	1.064-1.184
1,2-Dichloropropane	10.26	9.74	1.053 ok	1.055	0.995-1.115
1,3-Dichloropropane	12.91	9.74	1.325 ok	1.327	1.267-1.387
1,4-Dioxane	10.56	9.74	1.084 ok	1.091	1.031-1.151
Dichlorodifluoromethane	3.59	7.58	0.474 ok	0.474	0.414-0.534
Dichlorofluoromethane	4.35	7.58	0.574 ok	0.574	0.514-0.634
Dibromochloromethane	13.41	15.25	0.879 ok	0.880	0.820-0.940
Dibromomethane	10.24	9.74	1.051 ok	1.052	0.992-1.112
trans-1,2-Dichloroethylene	6.35	7.58	0.838 ok	0.839	0.779-0.899

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.40	7.58	0.976	ok 0.978	0.918-1.038
cis-1,3-Dichloropropene	11.63	9.74	1.194	ok 1.196	1.136-1.256
m-Dichlorobenzene	19.75	15.25	1.295	ok 1.295	1.235-1.355
o-Dichlorobenzene	20.33	15.25	1.333	ok 1.333	1.273-1.393
p-Dichlorobenzene	19.85	15.25	1.302	ok 1.302	1.242-1.362
trans-1,3-Dichloropropene	12.31	9.74	1.264	ok 1.267	1.207-1.327
Di-Isopropyl ether	7.61	7.58	1.004	ok 1.009	0.949-1.069
2,3-Dimethylpentane	9.90	9.74	1.016	ok 1.017	0.957-1.077
2,4-Dimethylpentane	8.57	7.58	1.131	ok 1.132	1.072-1.192
Ethanol	4.38	7.58	0.578	ok 0.579	0.519-0.639
Ethylbenzene	15.87	15.25	1.041	ok 1.041	0.981-1.101
Ethyl Acetate	7.65	7.58	1.009	ok 1.010	0.950-1.070
Ethyl Acrylate	10.31	9.74	1.059	ok 1.065	1.005-1.125
Ethyl Methacrylate	13.30	15.25	0.872	ok 0.874	0.814-0.934
4-Ethyltoluene	18.79	15.25	1.232	ok 1.233	1.173-1.293
Freon 113	5.72	7.58	0.755	ok 0.756	0.696-0.816
Freon 114	3.77	7.58	0.497	ok 0.498	0.438-0.558
Freon 115	3.40	7.58	0.449	ok 0.449	0.389-0.509
Freon 123	4.65	7.58	0.613	ok 0.615	0.555-0.675
Freon 123A	4.70	7.58	0.620	ok 0.621	0.561-0.681
Freon 142B	3.69	7.58	0.487	ok 0.487	0.427-0.547
Freon 152A	3.48	7.58	0.459	ok 0.460	0.400-0.520
Heptane	10.94	9.74	1.123	ok 1.124	1.064-1.184
Hexachlorobutadiene	23.20	15.25	1.521	ok 1.521	1.461-1.581
Hexachloroethane	21.25	15.25	1.393	ok 1.393	1.333-1.453
Hexane	7.61	7.58	1.004	ok 1.005	0.945-1.065
2-Hexanone	13.26	15.25	0.870	ok 0.873	0.813-0.933
Iodomethane	5.33	7.58	0.703	ok 0.704	0.644-0.764
Isopropylbenzene	17.73	15.25	1.163	ok 1.163	1.103-1.223
Isopropyl Alcohol	4.94	7.58	0.652	ok 0.655	0.595-0.715
p-Isopropyltoluene	20.19	15.25	1.324	ok 1.324	1.264-1.384
Methyl Acrylate	7.63	7.58	1.007	ok 1.010	0.950-1.070
Methylene chloride	5.50	7.58	0.726	ok 0.727	0.667-0.787
Methyl ethyl ketone	6.95	7.58	0.917	ok 0.923	0.863-0.983
Methyl Isobutyl Ketone	11.69	9.74	1.200	ok 1.205	1.145-1.265
Methyl Tert Butyl Ether	6.61	7.58	0.872	ok 0.877	0.817-0.937
Methylmethacrylate	10.84	9.74	1.113	ok 1.117	1.057-1.177
alpha-Methylstyrene	19.18	15.25	1.258	ok 1.258	1.198-1.318
Naphthalene	22.74	15.25	1.491	ok 1.492	1.432-1.552

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Nonane	17.22	15.25	1.129 ok	1.129	1.069-1.189
Octane	14.24	15.25	0.934 ok	0.934	0.874-0.994
Pentane	5.14	7.58	0.678 ok	0.680	0.620-0.740
n-Propylbenzene	18.55	15.25	1.216 ok	1.217	1.157-1.277
Propylene	3.54	7.58	0.467 ok	0.468	0.408-0.528
Styrene	16.66	15.25	1.092 ok	1.094	1.034-1.154
1,1,1-Trichloroethane	8.78	7.58	1.158 ok	1.160	1.100-1.220
1,1,1,2-Tetrachloroethane	15.30	15.25	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.81	15.25	1.102 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.52	9.74	1.285 ok	1.286	1.226-1.346
1,2,4-Trichlorobenzene	23.06	15.25	1.512 ok	1.512	1.452-1.572
1,2,3-Trichloropropane	17.00	15.25	1.115 ok	1.116	1.056-1.176
1,2,3-Trimethylbenzene	20.17	15.25	1.323 ok	1.322	1.262-1.382
1,2,4-Trimethylbenzene	19.55	15.25	1.282 ok	1.282	1.222-1.342
1,3,5-Trimethylbenzene	18.93	15.25	1.241 ok	1.241	1.181-1.301
2,2,4-Trimethylpentane	10.59	9.74	1.087 ok	1.088	1.028-1.148
Tertiary Butyl Alcohol	5.45	7.58	0.719 ok	0.725	0.665-0.785
Tetrachloroethylene	14.37	15.25	0.942 ok	0.942	0.882-1.002
Tetrahydrofuran	8.13	7.58	1.073 ok	1.081	1.021-1.141
Toluene	12.87	9.74	1.321 ok	1.322	1.262-1.382
Trichloroethylene	10.56	9.74	1.084 ok	1.085	1.025-1.145
Trichlorofluoromethane	4.86	7.58	0.641 ok	0.641	0.581-0.701
Vinyl chloride	3.86	7.58	0.509 ok	0.510	0.450-0.570
Vinyl Acetate	6.71	7.58	0.885 ok	0.888	0.828-0.948
m,p-Xylene	16.12	15.25	1.057 ok	1.058	0.998-1.118
o-Xylene	16.81	15.25	1.102 ok	1.103	1.043-1.163
TVHC As Equiv Pentane	5.14	15.25	0.337 ok	0.337	0.277-0.397

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.58 ok	7.57	7.24-7.90	411703 ok	432366	259420-605312
1,4-Difluorobenzene	9.74 ok	9.74	9.41-10.07	1814571 ok	1952080	1171248-2732912
Chlorobenzene-D5	15.25 ok	15.25	14.92-15.58	996598 ok	1006710	604026-1409394

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.73	7.58	0.624 ok	0.628	0.568-0.688
Acrolein	4.63	7.58	0.611 ok	0.613	0.553-0.673
Acrylonitrile	5.12	7.58	0.675 ok	0.677	0.617-0.737
Acetonitrile	4.54	7.58	0.599 ok	0.601	0.541-0.661
1,3-Butadiene	3.96	7.58	0.522 ok	0.523	0.463-0.583
Benzene	9.30	9.74	0.955 ok	0.955	0.895-1.015
Bromobenzene	17.82	15.25	1.169 ok	1.169	1.109-1.229
Bromodichloromethane	10.51	9.74	1.079 ok	1.080	1.020-1.140
Bromoform	16.20	15.25	1.062 ok	1.063	1.003-1.123
Bromomethane	4.16	7.58	0.549 ok	0.549	0.489-0.609
Bromoethene	4.54	7.58	0.599 ok	0.600	0.540-0.660
n-Butane	3.99	7.58	0.526 ok	0.528	0.468-0.588
Benzyl Chloride	19.74	15.25	1.294 ok	1.295	1.235-1.355
n-Butylbenzene	20.79	15.25	1.363 ok	1.363	1.303-1.423
sec-Butylbenzene	19.95	15.25	1.308 ok	1.308	1.248-1.368
tert-Butylbenzene	19.54	15.25	1.281 ok	1.281	1.221-1.341
Carbon disulfide	5.76	7.58	0.760 ok	0.761	0.701-0.821
Chlorobenzene	15.32	15.25	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.52	7.58	0.464 ok	0.464	0.404-0.524
Chloroethane	4.28	7.58	0.565 ok	0.565	0.505-0.625
Chlorotrifluoroethene	3.55	7.58	0.468 ok	0.469	0.409-0.529
Chloroform	7.72	7.58	1.018 ok	1.019	0.959-1.079
Chloromethane	3.71	7.58	0.489 ok	0.489	0.429-0.549
3-Chloropropene	5.61	7.58	0.740 ok	0.740	0.680-0.800
2-Chlorotoluene	18.46	15.25	1.210 ok	1.211	1.151-1.271
Carbon tetrachloride	9.47	7.58	1.249 ok	1.251	1.191-1.311
Cyclohexane	9.60	9.74	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.56	7.58	0.865 ok	0.866	0.806-0.926
1,1-Dichloroethylene	5.39	7.58	0.711 ok	0.712	0.652-0.772
1,2-Dibromoethane (EDB)	13.74	15.25	0.901 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.51	7.58	1.123 ok	1.124	1.064-1.184
1,2-Dichloropropane	10.27	9.74	1.054 ok	1.055	0.995-1.115
1,3-Dichloropropane	12.92	9.74	1.326 ok	1.327	1.267-1.387
1,4-Dioxane	10.56	9.74	1.084 ok	1.091	1.031-1.151
Dichlorodifluoromethane	3.59	7.58	0.474 ok	0.474	0.414-0.534
Dichlorofluoromethane	4.35	7.58	0.574 ok	0.574	0.514-0.634
Dibromochloromethane	13.42	15.25	0.880 ok	0.880	0.820-0.940
Dibromomethane	10.24	9.74	1.051 ok	1.052	0.992-1.112
trans-1,2-Dichloroethylene	6.36	7.58	0.839 ok	0.839	0.779-0.899

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.41	7.58	0.978	ok 0.978	0.918-1.038
cis-1,3-Dichloropropene	11.64	9.74	1.195	ok 1.196	1.136-1.256
m-Dichlorobenzene	19.75	15.25	1.295	ok 1.295	1.235-1.355
o-Dichlorobenzene	20.34	15.25	1.334	ok 1.333	1.273-1.393
p-Dichlorobenzene	19.86	15.25	1.302	ok 1.302	1.242-1.362
trans-1,3-Dichloropropene	12.32	9.74	1.265	ok 1.267	1.207-1.327
Di-Isopropyl ether	7.61	7.58	1.004	ok 1.009	0.949-1.069
2,3-Dimethylpentane	9.91	9.74	1.017	ok 1.017	0.957-1.077
2,4-Dimethylpentane	8.57	7.58	1.131	ok 1.132	1.072-1.192
Ethanol	4.38	7.58	0.578	ok 0.579	0.519-0.639
Ethylbenzene	15.87	15.25	1.041	ok 1.041	0.981-1.101
Ethyl Acetate	7.65	7.58	1.009	ok 1.010	0.950-1.070
Ethyl Acrylate	10.32	9.74	1.060	ok 1.065	1.005-1.125
Ethyl Methacrylate	13.30	15.25	0.872	ok 0.874	0.814-0.934
4-Ethyltoluene	18.80	15.25	1.233	ok 1.233	1.173-1.293
Freon 113	5.73	7.58	0.756	ok 0.756	0.696-0.816
Freon 114	3.78	7.58	0.499	ok 0.498	0.438-0.558
Freon 115	3.40	7.58	0.449	ok 0.449	0.389-0.509
Freon 123	4.65	7.58	0.613	ok 0.615	0.555-0.675
Freon 123A	4.70	7.58	0.620	ok 0.621	0.561-0.681
Freon 142B	3.69	7.58	0.487	ok 0.487	0.427-0.547
Freon 152A	3.48	7.58	0.459	ok 0.460	0.400-0.520
Heptane	10.94	9.74	1.123	ok 1.124	1.064-1.184
Hexachlorobutadiene	23.20	15.25	1.521	ok 1.521	1.461-1.581
Hexachloroethane	21.25	15.25	1.393	ok 1.393	1.333-1.453
Hexane	7.61	7.58	1.004	ok 1.005	0.945-1.065
2-Hexanone	13.26	15.25	0.870	ok 0.873	0.813-0.933
Iodomethane	5.33	7.58	0.703	ok 0.704	0.644-0.764
Isopropylbenzene	17.73	15.25	1.163	ok 1.163	1.103-1.223
Isopropyl Alcohol	4.94	7.58	0.652	ok 0.655	0.595-0.715
p-Isopropyltoluene	20.20	15.25	1.325	ok 1.324	1.264-1.384
Methyl Acrylate	7.64	7.58	1.008	ok 1.010	0.950-1.070
Methylene chloride	5.50	7.58	0.726	ok 0.727	0.667-0.787
Methyl ethyl ketone	6.95	7.58	0.917	ok 0.923	0.863-0.983
Methyl Isobutyl Ketone	11.69	9.74	1.200	ok 1.205	1.145-1.265
Methyl Tert Butyl Ether	6.60	7.58	0.871	ok 0.877	0.817-0.937
Methylmethacrylate	10.84	9.74	1.113	ok 1.117	1.057-1.177
alpha-Methylstyrene	19.18	15.25	1.258	ok 1.258	1.198-1.318
Naphthalene	22.74	15.25	1.491	ok 1.492	1.432-1.552

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Nonane	17.23	15.25	1.130 ok	1.129	1.069-1.189
Octane	14.25	15.25	0.934 ok	0.934	0.874-0.994
Pentane	5.14	7.58	0.678 ok	0.680	0.620-0.740
n-Propylbenzene	18.55	15.25	1.216 ok	1.217	1.157-1.277
Propylene	3.54	7.58	0.467 ok	0.468	0.408-0.528
Styrene	16.66	15.25	1.092 ok	1.094	1.034-1.154
1,1,1-Trichloroethane	8.78	7.58	1.158 ok	1.160	1.100-1.220
1,1,1,2-Tetrachloroethane	15.30	15.25	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.82	15.25	1.103 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.52	9.74	1.285 ok	1.286	1.226-1.346
1,2,4-Trichlorobenzene	23.06	15.25	1.512 ok	1.512	1.452-1.572
1,2,3-Trichloropropane	17.01	15.25	1.115 ok	1.116	1.056-1.176
1,2,3-Trimethylbenzene	20.17	15.25	1.323 ok	1.322	1.262-1.382
1,2,4-Trimethylbenzene	19.56	15.25	1.283 ok	1.282	1.222-1.342
1,3,5-Trimethylbenzene	18.93	15.25	1.241 ok	1.241	1.181-1.301
2,2,4-Trimethylpentane	10.59	9.74	1.087 ok	1.088	1.028-1.148
Tertiary Butyl Alcohol	5.45	7.58	0.719 ok	0.725	0.665-0.785
Tetrachloroethylene	14.37	15.25	0.942 ok	0.942	0.882-1.002
Tetrahydrofuran	8.13	7.58	1.073 ok	1.081	1.021-1.141
Toluene	12.87	9.74	1.321 ok	1.322	1.262-1.382
Trichloroethylene	10.56	9.74	1.084 ok	1.085	1.025-1.145
Trichlorofluoromethane	4.86	7.58	0.641 ok	0.641	0.581-0.701
Vinyl chloride	3.86	7.58	0.509 ok	0.510	0.450-0.570
Vinyl Acetate	6.71	7.58	0.885 ok	0.888	0.828-0.948
m,p-Xylene	16.15	15.25	1.059 ok	1.058	0.998-1.118
o-Xylene	16.81	15.25	1.102 ok	1.103	1.043-1.163
TVHC As Equiv Pentane	5.14	15.25	0.337 ok	0.337	0.277-0.397

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.58 ok	7.57	7.24-7.90	404190 ok	432366	259420-605312
1,4-Difluorobenzene	9.74 ok	9.74	9.41-10.07	1726031 ok	1952080	1171248-2732912
Chlorobenzene-D5	15.25 ok	15.25	14.92-15.58	1068013 ok	1006710	604026-1409394

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.73	7.58	0.624 ok	0.628	0.568-0.688
Acrolein	4.63	7.58	0.611 ok	0.613	0.553-0.673
Acrylonitrile	5.12	7.58	0.675 ok	0.677	0.617-0.737
Acetonitrile	4.54	7.58	0.599 ok	0.601	0.541-0.661
1,3-Butadiene	3.96	7.58	0.522 ok	0.523	0.463-0.583
Benzene	9.30	9.74	0.955 ok	0.955	0.895-1.015
Bromobenzene	17.82	15.26	1.168 ok	1.169	1.109-1.229
Bromodichloromethane	10.51	9.74	1.079 ok	1.080	1.020-1.140
Bromoform	16.21	15.26	1.062 ok	1.063	1.003-1.123
Bromomethane	4.16	7.58	0.549 ok	0.549	0.489-0.609
Bromoethene	4.54	7.58	0.599 ok	0.600	0.540-0.660
n-Butane	3.99	7.58	0.526 ok	0.528	0.468-0.588
Benzyl Chloride	19.75	15.26	1.294 ok	1.295	1.235-1.355
n-Butylbenzene	20.79	15.26	1.362 ok	1.363	1.303-1.423
sec-Butylbenzene	19.95	15.26	1.307 ok	1.308	1.248-1.368
tert-Butylbenzene	19.54	15.26	1.280 ok	1.281	1.221-1.341
Carbon disulfide	5.76	7.58	0.760 ok	0.761	0.701-0.821
Chlorobenzene	15.32	15.26	1.004 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.52	7.58	0.464 ok	0.464	0.404-0.524
Chloroethane	4.28	7.58	0.565 ok	0.565	0.505-0.625
Chlorotrifluoroethene	3.54	7.58	0.467 ok	0.469	0.409-0.529
Chloroform	7.72	7.58	1.018 ok	1.019	0.959-1.079
Chloromethane	3.70	7.58	0.488 ok	0.489	0.429-0.549
3-Chloropropene	5.60	7.58	0.739 ok	0.740	0.680-0.800
2-Chlorotoluene	18.46	15.26	1.210 ok	1.211	1.151-1.271
Carbon tetrachloride	9.47	7.58	1.249 ok	1.251	1.191-1.311
Cyclohexane	9.60	9.74	0.986 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.56	7.58	0.865 ok	0.866	0.806-0.926
1,1-Dichloroethylene	5.39	7.58	0.711 ok	0.712	0.652-0.772
1,2-Dibromoethane (EDB)	13.74	15.26	0.900 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.51	7.58	1.123 ok	1.124	1.064-1.184
1,2-Dichloropropane	10.27	9.74	1.054 ok	1.055	0.995-1.115
1,3-Dichloropropane	12.92	9.74	1.326 ok	1.327	1.267-1.387
1,4-Dioxane	10.56	9.74	1.084 ok	1.091	1.031-1.151
Dichlorodifluoromethane	3.59	7.58	0.474 ok	0.474	0.414-0.534
Dichlorofluoromethane	4.34	7.58	0.573 ok	0.574	0.514-0.634
Dibromochloromethane	13.42	15.26	0.879 ok	0.880	0.820-0.940
Dibromomethane	10.24	9.74	1.051 ok	1.052	0.992-1.112
trans-1,2-Dichloroethylene	6.35	7.58	0.838 ok	0.839	0.779-0.899

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15 Reporting this level
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.41	7.58	0.978 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	11.64	9.74	1.195 ok	1.196	1.136-1.256
m-Dichlorobenzene	19.75	15.26	1.294 ok	1.295	1.235-1.355
o-Dichlorobenzene	20.34	15.26	1.333 ok	1.333	1.273-1.393
p-Dichlorobenzene	19.86	15.26	1.301 ok	1.302	1.242-1.362
trans-1,3-Dichloropropene	12.32	9.74	1.265 ok	1.267	1.207-1.327
Di-Isopropyl ether	7.61	7.58	1.004 ok	1.009	0.949-1.069
2,3-Dimethylpentane	9.91	9.74	1.017 ok	1.017	0.957-1.077
2,4-Dimethylpentane	8.57	7.58	1.131 ok	1.132	1.072-1.192
Ethanol	4.38	7.58	0.578 ok	0.579	0.519-0.639
Ethylbenzene	15.87	15.26	1.040 ok	1.041	0.981-1.101
Ethyl Acetate	7.65	7.58	1.009 ok	1.010	0.950-1.070
Ethyl Acrylate	10.32	9.74	1.060 ok	1.065	1.005-1.125
Ethyl Methacrylate	13.30	15.26	0.872 ok	0.874	0.814-0.934
4-Ethyltoluene	18.80	15.26	1.232 ok	1.233	1.173-1.293
Freon 113	5.72	7.58	0.755 ok	0.756	0.696-0.816
Freon 114	3.77	7.58	0.497 ok	0.498	0.438-0.558
Freon 115	3.40	7.58	0.449 ok	0.449	0.389-0.509
Freon 123	4.65	7.58	0.613 ok	0.615	0.555-0.675
Freon 123A	4.70	7.58	0.620 ok	0.621	0.561-0.681
Freon 142B	3.69	7.58	0.487 ok	0.487	0.427-0.547
Freon 152A	3.48	7.58	0.459 ok	0.460	0.400-0.520
Heptane	10.94	9.74	1.123 ok	1.124	1.064-1.184
Hexachlorobutadiene	23.20	15.26	1.520 ok	1.521	1.461-1.581
Hexachloroethane	21.25	15.26	1.393 ok	1.393	1.333-1.453
Hexane	7.61	7.58	1.004 ok	1.005	0.945-1.065
2-Hexanone	13.26	15.26	0.869 ok	0.873	0.813-0.933
Iodomethane	5.33	7.58	0.703 ok	0.704	0.644-0.764
Isopropylbenzene	17.73	15.26	1.162 ok	1.163	1.103-1.223
Isopropyl Alcohol	4.94	7.58	0.652 ok	0.655	0.595-0.715
p-Isopropyltoluene	20.20	15.26	1.324 ok	1.324	1.264-1.384
Methyl Acrylate	7.64	7.58	1.008 ok	1.010	0.950-1.070
Methylene chloride	5.50	7.58	0.726 ok	0.727	0.667-0.787
Methyl ethyl ketone	6.95	7.58	0.917 ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	11.69	9.74	1.200 ok	1.205	1.145-1.265
Methyl Tert Butyl Ether	6.60	7.58	0.871 ok	0.877	0.817-0.937
Methylmethacrylate	10.84	9.74	1.113 ok	1.117	1.057-1.177
alpha-Methylstyrene	19.18	15.26	1.257 ok	1.258	1.198-1.318
Naphthalene	22.75	15.26	1.491 ok	1.492	1.432-1.552

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Nonane	17.23	15.26	1.129 ok	1.129	1.069-1.189
Octane	14.25	15.26	0.934 ok	0.934	0.874-0.994
Pentane	5.14	7.58	0.678 ok	0.680	0.620-0.740
n-Propylbenzene	18.55	15.26	1.216 ok	1.217	1.157-1.277
Propylene	3.53	7.58	0.466 ok	0.468	0.408-0.528
Styrene	16.67	15.26	1.092 ok	1.094	1.034-1.154
1,1,1-Trichloroethane	8.78	7.58	1.158 ok	1.160	1.100-1.220
1,1,1,2-Tetrachloroethane	15.30	15.26	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.82	15.26	1.102 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.52	9.74	1.285 ok	1.286	1.226-1.346
1,2,4-Trichlorobenzene	23.06	15.26	1.511 ok	1.512	1.452-1.572
1,2,3-Trichloropropane	17.01	15.26	1.115 ok	1.116	1.056-1.176
1,2,3-Trimethylbenzene	20.17	15.26	1.322 ok	1.322	1.262-1.382
1,2,4-Trimethylbenzene	19.56	15.26	1.282 ok	1.282	1.222-1.342
1,3,5-Trimethylbenzene	18.94	15.26	1.241 ok	1.241	1.181-1.301
2,2,4-Trimethylpentane	10.59	9.74	1.087 ok	1.088	1.028-1.148
Tertiary Butyl Alcohol	5.45	7.58	0.719 ok	0.725	0.665-0.785
Tetrachloroethylene	14.38	15.26	0.942 ok	0.942	0.882-1.002
Tetrahydrofuran	8.13	7.58	1.073 ok	1.081	1.021-1.141
Toluene	12.87	9.74	1.321 ok	1.322	1.262-1.382
Trichloroethylene	10.56	9.74	1.084 ok	1.085	1.025-1.145
Trichlorofluoromethane	4.85	7.58	0.640 ok	0.641	0.581-0.701
Vinyl chloride	3.86	7.58	0.509 ok	0.510	0.450-0.570
Vinyl Acetate	6.71	7.58	0.885 ok	0.888	0.828-0.948
m,p-Xylene	16.15	15.26	1.058 ok	1.058	0.998-1.118
o-Xylene	16.82	15.26	1.102 ok	1.103	1.043-1.163
TVHC As Equiv Pentane	5.14	15.26	0.337 ok	0.337	0.277-0.397

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.58 ok	7.57	7.24-7.90	421126 ok	432366	259420-605312
1,4-Difluorobenzene	9.74 ok	9.74	9.41-10.07	1754221 ok	1952080	1171248-2732912
Chlorobenzene-D5	15.26 ok	15.25	14.92-15.58	1144540 ok	1006710	604026-1409394

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	4.77	7.56	0.631 ok	0.628	0.568-0.688
Acrolein	4.65	7.56	0.615 ok	0.613	0.553-0.673
Acrylonitrile	5.14	7.56	0.680 ok	0.677	0.617-0.737
Acetonitrile	4.56	7.56	0.603 ok	0.601	0.541-0.661
1,3-Butadiene	3.96	7.56	0.524 ok	0.523	0.463-0.583
Benzene	9.30	9.73	0.956 ok	0.955	0.895-1.015
Bromobenzene	17.82	15.25	1.169 ok	1.169	1.109-1.229
Bromodichloromethane	10.51	9.73	1.080 ok	1.080	1.020-1.140
Bromoform	16.20	15.25	1.062 ok	1.063	1.003-1.123
Bromomethane	4.16	7.56	0.550 ok	0.549	0.489-0.609
Bromoethene	4.54	7.56	0.601 ok	0.600	0.540-0.660
n-Butane	3.99	7.56	0.528 ok	0.528	0.468-0.588
Benzyl Chloride	19.74	15.25	1.294 ok	1.295	1.235-1.355
n-Butylbenzene	20.79	15.25	1.363 ok	1.363	1.303-1.423
sec-Butylbenzene	19.95	15.25	1.308 ok	1.308	1.248-1.368
tert-Butylbenzene	19.54	15.25	1.281 ok	1.281	1.221-1.341
Carbon disulfide	5.76	7.56	0.762 ok	0.761	0.701-0.821
Chlorobenzene	15.32	15.25	1.005 ok	1.004	0.944-1.064
Chlorodifluoromethane	3.51	7.56	0.464 ok	0.464	0.404-0.524
Chloroethane	4.27	7.56	0.565 ok	0.565	0.505-0.625
Chlorotrifluoroethene	3.54	7.56	0.468 ok	0.469	0.409-0.529
Chloroform	7.71	7.56	1.020 ok	1.019	0.959-1.079
Chloromethane	3.70	7.56	0.489 ok	0.489	0.429-0.549
3-Chloropropene	5.61	7.56	0.742 ok	0.740	0.680-0.800
2-Chlorotoluene	18.46	15.25	1.210 ok	1.211	1.151-1.271
Carbon tetrachloride	9.47	7.56	1.253 ok	1.251	1.191-1.311
Cyclohexane	9.60	9.73	0.987 ok	0.986	0.926-1.046
1,1-Dichloroethane	6.56	7.56	0.868 ok	0.866	0.806-0.926
1,1-Dichloroethylene	5.39	7.56	0.713 ok	0.712	0.652-0.772
1,2-Dibromoethane (EDB)	13.74	15.25	0.901 ok	0.901	0.841-0.961
1,2-Dichloroethane	8.51	7.56	1.126 ok	1.124	1.064-1.184
1,2-Dichloropropane	10.26	9.73	1.054 ok	1.055	0.995-1.115
1,3-Dichloropropane	12.92	9.73	1.328 ok	1.327	1.267-1.387
1,4-Dioxane	10.65	9.73	1.095 ok	1.091	1.031-1.151
Dichlorodifluoromethane	3.59	7.56	0.475 ok	0.474	0.414-0.534
Dichlorofluoromethane	4.35	7.56	0.575 ok	0.574	0.514-0.634
Dibromochloromethane	13.42	15.25	0.880 ok	0.880	0.820-0.940
Dibromomethane	10.24	9.73	1.052 ok	1.052	0.992-1.112
trans-1,2-Dichloroethylene	6.36	7.56	0.841 ok	0.839	0.779-0.899

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	7.40	7.56	0.979 ok	0.978	0.918-1.038
cis-1,3-Dichloropropene	11.65	9.73	1.197 ok	1.196	1.136-1.256
m-Dichlorobenzene	19.75	15.25	1.295 ok	1.295	1.235-1.355
o-Dichlorobenzene	20.33	15.25	1.333 ok	1.333	1.273-1.393
p-Dichlorobenzene	19.85	15.25	1.302 ok	1.302	1.242-1.362
trans-1,3-Dichloropropene	12.33	9.73	1.267 ok	1.267	1.207-1.327
Di-Isopropyl ether	7.64	7.56	1.011 ok	1.009	0.949-1.069
2,3-Dimethylpentane	9.90	9.73	1.017 ok	1.017	0.957-1.077
2,4-Dimethylpentane	8.57	7.56	1.134 ok	1.132	1.072-1.192
Ethanol	4.40	7.56	0.582 ok	0.579	0.519-0.639
Ethylbenzene	15.87	15.25	1.041 ok	1.041	0.981-1.101
Ethyl Acetate	7.70	7.56	1.019 ok	1.010	0.950-1.070
Ethyl Acrylate	10.37	9.73	1.066 ok	1.065	1.005-1.125
Ethyl Methacrylate	13.32	15.25	0.873 ok	0.874	0.814-0.934
4-Ethyltoluene	18.80	15.25	1.233 ok	1.233	1.173-1.293
Freon 113	5.73	7.56	0.758 ok	0.756	0.696-0.816
Freon 114	3.77	7.56	0.499 ok	0.498	0.438-0.558
Freon 123	4.65	7.56	0.615 ok	0.615	0.555-0.675
Freon 123A	4.70	7.56	0.622 ok	0.621	0.561-0.681
Freon 142B	3.69	7.56	0.488 ok	0.487	0.427-0.547
Freon 152A	3.48	7.56	0.460 ok	0.460	0.400-0.520
Heptane	10.94	9.73	1.124 ok	1.124	1.064-1.184
Hexachlorobutadiene	23.20	15.25	1.521 ok	1.521	1.461-1.581
Hexachloroethane	21.25	15.25	1.393 ok	1.393	1.333-1.453
Hexane	7.61	7.56	1.007 ok	1.005	0.945-1.065
2-Hexanone	13.32	15.25	0.873 ok	0.873	0.813-0.933
Iodomethane	5.33	7.56	0.705 ok	0.704	0.644-0.764
Isopropylbenzene	17.73	15.25	1.163 ok	1.163	1.103-1.223
Isopropyl Alcohol	4.98	7.56	0.659 ok	0.655	0.595-0.715
p-Isopropyltoluene	20.19	15.25	1.324 ok	1.324	1.264-1.384
Methyl Acrylate	7.67	7.56	1.015 ok	1.010	0.950-1.070
Methylene chloride	5.50	7.56	0.728 ok	0.727	0.667-0.787
Methyl ethyl ketone	7.01	7.56	0.927 ok	0.923	0.863-0.983
Methyl Isobutyl Ketone	11.75	9.73	1.208 ok	1.205	1.145-1.265
Methyl Tert Butyl Ether	6.65	7.56	0.880 ok	0.877	0.817-0.937
Methylmethacrylate	10.87	9.73	1.117 ok	1.117	1.057-1.177
alpha-Methylstyrene	19.18	15.25	1.258 ok	1.258	1.198-1.318
Naphthalene	22.75	15.25	1.492 ok	1.492	1.432-1.552
Nonane	17.22	15.25	1.129 ok	1.129	1.069-1.189

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V5W2187-IC2187	5W57030.D	02/23/25 02:03	BK	0.04	GCMS5W	TO-15
V5W2187-IC2187	5W57031.D	02/23/25 02:53	BK	0.1	GCMS5W	TO-15
V5W2187-IC2187	5W57037.D	02/23/25 08:09	BK	0.2	GCMS5W	TO-15
V5W2187-IC2187	5W57043.D	02/23/25 13:23	BK	5	GCMS5W	TO-15
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	BK	10	GCMS5W	TO-15
V5W2187-IC2187	5W57045.D	02/23/25 15:05	BK	20	GCMS5W	TO-15
V5W2187-IC2187	5W57046.D	02/23/25 16:01	BK	40	GCMS5W	TO-15
V5W2187-IC2187	5W57047.D	02/23/25 16:59	BK	50	GCMS5W	TO-15
V5W2187-IC2187	5W57059.D	02/24/25 07:51	BK	0.5	GCMS5W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Octane	14.25	15.25	0.934 ok	0.934	0.874-0.994
Pentane	5.15	7.56	0.681 ok	0.680	0.620-0.740
n-Propylbenzene	18.55	15.25	1.216 ok	1.217	1.157-1.277
Propylene	3.54	7.56	0.468 ok	0.468	0.408-0.528
Styrene	16.67	15.25	1.093 ok	1.094	1.034-1.154
1,1,1-Trichloroethane	8.78	7.56	1.161 ok	1.160	1.100-1.220
1,1,1,2-Tetrachloroethane	15.30	15.25	1.003 ok	1.003	0.943-1.063
1,1,2,2-Tetrachloroethane	16.82	15.25	1.103 ok	1.103	1.043-1.163
1,1,2-Trichloroethane	12.52	9.73	1.287 ok	1.286	1.226-1.346
1,2,4-Trichlorobenzene	23.07	15.25	1.513 ok	1.512	1.452-1.572
1,2,3-Trichloropropane	17.02	15.25	1.116 ok	1.116	1.056-1.176
1,2,3-Trimethylbenzene	20.17	15.25	1.323 ok	1.322	1.262-1.382
1,2,4-Trimethylbenzene	19.55	15.25	1.282 ok	1.282	1.222-1.342
1,3,5-Trimethylbenzene	18.93	15.25	1.241 ok	1.241	1.181-1.301
2,2,4-Trimethylpentane	10.59	9.73	1.088 ok	1.088	1.028-1.148
Tertiary Butyl Alcohol	5.51	7.56	0.729 ok	0.725	0.665-0.785
Tetrachloroethylene	14.37	15.25	0.942 ok	0.942	0.882-1.002
Tetrahydrofuran	8.21	7.56	1.086 ok	1.081	1.021-1.141
Toluene	12.87	9.73	1.323 ok	1.322	1.262-1.382
Trichloroethylene	10.56	9.73	1.085 ok	1.085	1.025-1.145
Trichlorofluoromethane	4.86	7.56	0.643 ok	0.641	0.581-0.701
Vinyl chloride	3.86	7.56	0.511 ok	0.510	0.450-0.570
Vinyl Acetate	6.74	7.56	0.892 ok	0.888	0.828-0.948
m,p-Xylene	16.12	15.25	1.057 ok	1.058	0.998-1.118
o-Xylene	16.81	15.25	1.102 ok	1.103	1.043-1.163
TVHC As Equiv Pentane	5.14	15.25	0.337 ok	0.337	0.277-0.397

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	7.56 ok	7.57	7.24-7.90	465258 ok	432366	259420-605312
1,4-Difluorobenzene	9.73 ok	9.74	9.41-10.07	2131079 ok	1952080	1171248-2732912
Chlorobenzene-D5	15.25 ok	15.25	14.92-15.58	963468 ok	1006710	604026-1409394

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15	
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15	
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15	
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15	
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15	
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15	
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15	
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.10	3.22	0.652 ok	0.652	0.592-0.712
Acrolein	2.06	3.22	0.640 ok	0.640	0.580-0.700
Acrylonitrile	2.24	3.22	0.696 ok	0.695	0.635-0.755
Acetonitrile	2.03	3.22	0.630 ok	0.628	0.568-0.688
1,3-Butadiene	1.81	3.22	0.562 ok	0.561	0.501-0.621
Benzene	4.17	3.22	1.295 ok	1.292	1.232-1.352
Bromobenzene	13.72	10.03	1.368 ok	1.368	1.308-1.428
Bromodichloromethane	5.00	4.49	1.114 ok	1.114	1.054-1.174
Bromoform	11.23	10.03	1.120 ok	1.119	1.059-1.179
Bromomethane	1.88	3.22	0.584 ok	0.584	0.524-0.644
Bromoethene	2.03	3.22	0.630 ok	0.629	0.569-0.689
n-Butane	1.82	3.22	0.565 ok	0.565	0.505-0.625
Benzyl Chloride	16.63	10.03	1.658 ok	1.657	1.597-1.717
n-Butylbenzene	17.40	10.03	1.735 ok	1.734	1.674-1.794
sec-Butylbenzene	16.84	10.03	1.679 ok	1.678	1.618-1.738
tert-Butylbenzene	16.53	10.03	1.648 ok	1.647	1.587-1.707
Carbon disulfide	2.49	3.22	0.773 ok	0.772	0.712-0.832
Chlorobenzene	10.10	10.03	1.007 ok	1.007	0.947-1.067
Chlorodifluoromethane	1.64	3.22	0.509 ok	0.508	0.448-0.568
Chloroethane	1.93	3.22	0.599 ok	0.598	0.538-0.658
Chlorotrifluoroethene	1.65	3.22	0.512 ok	0.511	0.451-0.571
Chloroform	3.29	3.22	1.022 ok	1.022	0.962-1.082
Chloromethane	1.71	3.22	0.531 ok	0.530	0.470-0.590
3-Chloropropene	2.43	3.22	0.755 ok	0.756	0.696-0.816
2-Chlorotoluene	14.84	10.03	1.480 ok	1.480	1.420-1.540
Carbon tetrachloride	4.28	3.22	1.329 ok	1.326	1.266-1.386
Cyclohexane	4.37	4.49	0.973 ok	0.974	0.914-1.034
1,1-Dichloroethane	2.79	3.22	0.866 ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.36	3.22	0.733 ok	0.731	0.671-0.791
1,2-Dibromoethane (EDB)	8.05	4.49	1.793 ok	1.794	1.734-1.854
1,2-Dichloroethane	3.70	3.22	1.149 ok	1.147	1.087-1.207
1,2-Dichloropropane	4.83	4.49	1.076 ok	1.075	1.015-1.135
1,3-Dichloropropane	7.24	4.49	1.612 ok	1.613	1.553-1.673
1,4-Dioxane	5.23	4.49	1.165 ok	1.142	1.082-1.202
Dichlorodifluoromethane	1.67	3.22	0.519 ok	0.517	0.457-0.577
Dichlorofluoromethane	1.96	3.22	0.609 ok	0.607	0.547-0.667
Dibromochloromethane	7.72	4.49	1.719 ok	1.718	1.658-1.778
Dibromomethane	4.79	4.49	1.067 ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.72	3.22	0.845 ok	0.843	0.783-0.903

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15	
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15	
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15	
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15	
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15	
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15	
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15	
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.15	3.22	0.978 ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	5.99	4.49	1.334 ok	1.333	1.273-1.393
m-Dichlorobenzene	16.60	10.03	1.655 ok	1.655	1.595-1.715
o-Dichlorobenzene	17.01	10.03	1.696 ok	1.695	1.635-1.755
p-Dichlorobenzene	16.69	10.03	1.664 ok	1.663	1.603-1.723
trans-1,3-Dichloropropene	6.67	4.49	1.486 ok	1.484	1.424-1.544
Di-Isopropyl ether	3.29	3.22	1.022 ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.63	4.49	1.031 ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.78	3.22	1.174 ok	1.173	1.113-1.233
Ethanol	1.97	3.22	0.612 ok	0.609	0.549-0.669
Ethylbenzene	10.99	10.03	1.096 ok	1.095	1.035-1.155
Ethyl Acetate	3.30	3.22	1.025 ok	1.020	0.960-1.080
Ethyl Acrylate	4.97	4.49	1.107 ok	1.104	1.044-1.164
4-Ethyltoluene	15.65	10.03	1.560 ok	1.559	1.499-1.619
Freon 113	2.49	3.22	0.773 ok	0.772	0.712-0.832
Freon 114	1.74	3.22	0.540 ok	0.539	0.479-0.599
Freon 115	1.60	3.22	0.497 ok	0.496	0.436-0.556
Freon 123	2.07	3.22	0.643 ok	0.642	0.582-0.702
Freon 123A	2.09	3.22	0.649 ok	0.648	0.588-0.708
Freon 142B	1.70	3.22	0.528 ok	0.528	0.468-0.588
Freon 152A	1.63	3.22	0.506 ok	0.504	0.444-0.564
Heptane	5.47	4.49	1.218 ok	1.217	1.157-1.277
Hexachlorobutadiene	18.63	10.03	1.857 ok	1.857	1.797-1.917
Hexachloroethane	17.58	10.03	1.753 ok	1.751	1.691-1.811
Hexane	3.28	3.22	1.019 ok	1.015	0.955-1.075
2-Hexanone	7.82	4.49	1.742 ok	1.734	1.674-1.794
Iodomethane	2.33	3.22	0.724 ok	0.722	0.662-0.782
Isopropylbenzene	13.86	10.03	1.382 ok	1.381	1.321-1.441
Isopropyl Alcohol	2.19	3.22	0.680 ok	0.676	0.616-0.736
p-Isopropyltoluene	17.03	10.03	1.698 ok	1.697	1.637-1.757
Methylene chloride	2.40	3.22	0.745 ok	0.743	0.683-0.803
Methyl ethyl ketone	2.97	3.22	0.922 ok	0.919	0.859-0.979
Methyl Isobutyl Ketone	6.13	4.49	1.365 ok	1.361	1.301-1.421
Methyl Tert Butyl Ether	2.83	3.22	0.879 ok	0.876	0.816-0.936
Methylmethacrylate	5.37	4.49	1.196 ok	1.196	1.136-1.256
Naphthalene	18.38	10.03	1.833 ok	1.831	1.771-1.891
Nonane	13.46	10.03	1.342 ok	1.343	1.283-1.403
Octane	9.06	4.49	2.018 ok	2.017	1.957-2.077
Pentane	2.27	3.22	0.705 ok	0.703	0.643-0.763

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method	
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15	Reporting this level
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15	
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15	
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15	
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15	
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15	
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15	
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15	
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15	

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.20	10.03	1.515 ok	1.515	1.455-1.575
Propylene	1.65	3.22	0.512 ok	0.511	0.451-0.571
Styrene	12.15	10.03	1.211 ok	1.210	1.150-1.270
1,1,1-Trichloroethane	3.87	3.22	1.202 ok	1.198	1.138-1.258
1,1,1,2-Tetrachloroethane	10.11	10.03	1.008 ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.35	10.03	1.231 ok	1.232	1.172-1.292
1,1,2-Trichloroethane	6.83	4.49	1.521 ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.32	10.03	1.827 ok	1.826	1.766-1.886
1,2,3-Trichloropropane	12.64	10.03	1.260 ok	1.260	1.200-1.320
1,2,3-Trimethylbenzene	16.96	10.03	1.691 ok	1.690	1.630-1.750
1,2,4-Trimethylbenzene	16.53	10.03	1.648 ok	1.648	1.588-1.708
1,3,5-Trimethylbenzene	15.91	10.03	1.586 ok	1.586	1.526-1.646
2,2,4-Trimethylpentane	5.15	4.49	1.147 ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.40	3.22	0.745 ok	0.740	0.680-0.800
Tetrachloroethylene	8.90	4.49	1.982 ok	1.982	1.922-2.042
Tetrahydrofuran	3.54	3.22	1.099 ok	1.091	1.031-1.151
Toluene	7.19	4.49	1.601 ok	1.600	1.540-1.660
Trichloroethylene	5.06	4.49	1.127 ok	1.127	1.067-1.187
Trichlorofluoromethane	2.16	3.22	0.671 ok	0.669	0.609-0.729
Vinyl chloride	1.77	3.22	0.550 ok	0.548	0.488-0.608
Vinyl Acetate	2.86	3.22	0.888 ok	0.887	0.827-0.947
m,p-Xylene	11.42	10.03	1.139 ok	1.138	1.078-1.198
o-Xylene	12.35	10.03	1.231 ok	1.231	1.171-1.291
TVHC As Equiv Pentane	2.27	10.03	0.226 ok	0.226	0.166-0.286

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.22 ok	3.23	2.90-3.56	135115	ok 131593	78956-184230
1,4-Difluorobenzene	4.49 ok	4.49	4.16-4.82	681342	ok 662398	397439-927357
Chlorobenzene-D5	10.03 ok	10.03	9.70-10.36	623287	ok 618891	371335-866447

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15 Reporting this level
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.11	3.22	0.655 ok	0.652	0.592-0.712
Acrolein	2.07	3.22	0.643 ok	0.640	0.580-0.700
Acrylonitrile	2.24	3.22	0.696 ok	0.695	0.635-0.755
Acetonitrile	2.03	3.22	0.630 ok	0.628	0.568-0.688
1,3-Butadiene	1.81	3.22	0.562 ok	0.561	0.501-0.621
Benzene	4.17	3.22	1.295 ok	1.292	1.232-1.352
Bromobenzene	13.72	10.03	1.368 ok	1.368	1.308-1.428
Bromodichloromethane	5.00	4.49	1.114 ok	1.114	1.054-1.174
Bromoform	11.23	10.03	1.120 ok	1.119	1.059-1.179
Bromomethane	1.89	3.22	0.587 ok	0.584	0.524-0.644
Bromoethene	2.03	3.22	0.630 ok	0.629	0.569-0.689
n-Butane	1.83	3.22	0.568 ok	0.565	0.505-0.625
Benzyl Chloride	16.62	10.03	1.657 ok	1.657	1.597-1.717
n-Butylbenzene	17.39	10.03	1.734 ok	1.734	1.674-1.794
sec-Butylbenzene	16.84	10.03	1.679 ok	1.678	1.618-1.738
tert-Butylbenzene	16.53	10.03	1.648 ok	1.647	1.587-1.707
Carbon disulfide	2.49	3.22	0.773 ok	0.772	0.712-0.832
Chlorobenzene	10.10	10.03	1.007 ok	1.007	0.947-1.067
Chlorodifluoromethane	1.64	3.22	0.509 ok	0.508	0.448-0.568
Chloroethane	1.93	3.22	0.599 ok	0.598	0.538-0.658
Chlorotrifluoroethene	1.65	3.22	0.512 ok	0.511	0.451-0.571
Chloroform	3.30	3.22	1.025 ok	1.022	0.962-1.082
Chloromethane	1.71	3.22	0.531 ok	0.530	0.470-0.590
3-Chloropropene	2.44	3.22	0.758 ok	0.756	0.696-0.816
2-Chlorotoluene	14.85	10.03	1.481 ok	1.480	1.420-1.540
Carbon tetrachloride	4.28	3.22	1.329 ok	1.326	1.266-1.386
Cyclohexane	4.38	4.49	0.976 ok	0.974	0.914-1.034
1,1-Dichloroethane	2.79	3.22	0.866 ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.36	3.22	0.733 ok	0.731	0.671-0.791
1,2-Dibromoethane (EDB)	8.05	4.49	1.793 ok	1.794	1.734-1.854
1,2-Dichloroethane	3.70	3.22	1.149 ok	1.147	1.087-1.207
1,2-Dichloropropane	4.83	4.49	1.076 ok	1.075	1.015-1.135
1,3-Dichloropropane	7.24	4.49	1.612 ok	1.613	1.553-1.673
1,4-Dioxane	5.17	4.49	1.151 ok	1.142	1.082-1.202
Dichlorodifluoromethane	1.67	3.22	0.519 ok	0.517	0.457-0.577
Dichlorofluoromethane	1.96	3.22	0.609 ok	0.607	0.547-0.667
Dibromochloromethane	7.72	4.49	1.719 ok	1.718	1.658-1.778
Dibromomethane	4.78	4.49	1.065 ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.72	3.22	0.845 ok	0.843	0.783-0.903

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15 Reporting this level
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.15	3.22	0.978 ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	5.99	4.49	1.334 ok	1.333	1.273-1.393
m-Dichlorobenzene	16.60	10.03	1.655 ok	1.655	1.595-1.715
o-Dichlorobenzene	17.01	10.03	1.696 ok	1.695	1.635-1.755
p-Dichlorobenzene	16.69	10.03	1.664 ok	1.663	1.603-1.723
trans-1,3-Dichloropropene	6.66	4.49	1.483 ok	1.484	1.424-1.544
Di-Isopropyl ether	3.29	3.22	1.022 ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.63	4.49	1.031 ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.78	3.22	1.174 ok	1.173	1.113-1.233
Ethanol	1.97	3.22	0.612 ok	0.609	0.549-0.669
Ethylbenzene	10.99	10.03	1.096 ok	1.095	1.035-1.155
Ethyl Acetate	3.30	3.22	1.025 ok	1.020	0.960-1.080
Ethyl Acrylate	4.96	4.49	1.105 ok	1.104	1.044-1.164
4-Ethyltoluene	15.64	10.03	1.559 ok	1.559	1.499-1.619
Freon 113	2.49	3.22	0.773 ok	0.772	0.712-0.832
Freon 114	1.74	3.22	0.540 ok	0.539	0.479-0.599
Freon 115	1.60	3.22	0.497 ok	0.496	0.436-0.556
Freon 123	2.08	3.22	0.646 ok	0.642	0.582-0.702
Freon 123A	2.09	3.22	0.649 ok	0.648	0.588-0.708
Freon 142B	1.71	3.22	0.531 ok	0.528	0.468-0.588
Freon 152A	1.63	3.22	0.506 ok	0.504	0.444-0.564
Heptane	5.46	4.49	1.216 ok	1.217	1.157-1.277
Hexachlorobutadiene	18.63	10.03	1.857 ok	1.857	1.797-1.917
Hexachloroethane	17.57	10.03	1.752 ok	1.751	1.691-1.811
Hexane	3.27	3.22	1.016 ok	1.015	0.955-1.075
2-Hexanone	7.80	4.49	1.737 ok	1.734	1.674-1.794
Iodomethane	2.33	3.22	0.724 ok	0.722	0.662-0.782
Isopropylbenzene	13.85	10.03	1.381 ok	1.381	1.321-1.441
Isopropyl Alcohol	2.19	3.22	0.680 ok	0.676	0.616-0.736
p-Isopropyltoluene	17.03	10.03	1.698 ok	1.697	1.637-1.757
Methylene chloride	2.39	3.22	0.742 ok	0.743	0.683-0.803
Methyl ethyl ketone	2.97	3.22	0.922 ok	0.919	0.859-0.979
Methyl Isobutyl Ketone	6.13	4.49	1.365 ok	1.361	1.301-1.421
Methyl Tert Butyl Ether	2.83	3.22	0.879 ok	0.876	0.816-0.936
Methylmethacrylate	5.37	4.49	1.196 ok	1.196	1.136-1.256
Naphthalene	18.37	10.03	1.832 ok	1.831	1.771-1.891
Nonane	13.46	10.03	1.342 ok	1.343	1.283-1.403
Octane	9.06	4.49	2.018 ok	2.017	1.957-2.077
Pentane	2.27	3.22	0.705 ok	0.703	0.643-0.763

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.20	10.03	1.515 ok	1.515	1.455-1.575
Propylene	1.65	3.22	0.512 ok	0.511	0.451-0.571
Styrene	12.13	10.03	1.209 ok	1.210	1.150-1.270
1,1,1-Trichloroethane	3.86	3.22	1.199 ok	1.198	1.138-1.258
1,1,1,2-Tetrachloroethane	10.11	10.03	1.008 ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.35	10.03	1.231 ok	1.232	1.172-1.292
1,1,2-Trichloroethane	6.82	4.49	1.519 ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.32	10.03	1.827 ok	1.826	1.766-1.886
1,2,3-Trichloropropane	12.65	10.03	1.261 ok	1.260	1.200-1.320
1,2,3-Trimethylbenzene	16.96	10.03	1.691 ok	1.690	1.630-1.750
1,2,4-Trimethylbenzene	16.53	10.03	1.648 ok	1.648	1.588-1.708
1,3,5-Trimethylbenzene	15.91	10.03	1.586 ok	1.586	1.526-1.646
2,2,4-Trimethylpentane	5.16	4.49	1.149 ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.40	3.22	0.745 ok	0.740	0.680-0.800
Tetrachloroethylene	8.91	4.49	1.984 ok	1.982	1.922-2.042
Tetrahydrofuran	3.54	3.22	1.099 ok	1.091	1.031-1.151
Toluene	7.18	4.49	1.599 ok	1.600	1.540-1.660
Trichloroethylene	5.06	4.49	1.127 ok	1.127	1.067-1.187
Trichlorofluoromethane	2.16	3.22	0.671 ok	0.669	0.609-0.729
Vinyl chloride	1.77	3.22	0.550 ok	0.548	0.488-0.608
Vinyl Acetate	2.86	3.22	0.888 ok	0.887	0.827-0.947
m,p-Xylene	11.38	10.03	1.135 ok	1.138	1.078-1.198
o-Xylene	12.34	10.03	1.230 ok	1.231	1.171-1.291
TVHC As Equiv Pentane	2.27	10.03	0.226 ok	0.226	0.166-0.286

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.22 ok	3.23	2.90-3.56	133584	ok 131593	78956-184230
1,4-Difluorobenzene	4.49 ok	4.49	4.16-4.82	679369	ok 662398	397439-927357
Chlorobenzene-D5	10.03 ok	10.03	9.70-10.36	626077	ok 618891	371335-866447

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15 Reporting this level
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.12	3.23	0.656 ok	0.652	0.592-0.712
Acrolein	2.07	3.23	0.641 ok	0.640	0.580-0.700
Acrylonitrile	2.25	3.23	0.697 ok	0.695	0.635-0.755
Acetonitrile	2.03	3.23	0.628 ok	0.628	0.568-0.688
1,3-Butadiene	1.81	3.23	0.560 ok	0.561	0.501-0.621
Benzene	4.17	3.23	1.291 ok	1.292	1.232-1.352
Bromobenzene	13.72	10.03	1.368 ok	1.368	1.308-1.428
Bromodichloromethane	5.00	4.50	1.111 ok	1.114	1.054-1.174
Bromoform	11.22	10.03	1.119 ok	1.119	1.059-1.179
Bromomethane	1.89	3.23	0.585 ok	0.584	0.524-0.644
Bromoethene	2.03	3.23	0.628 ok	0.629	0.569-0.689
n-Butane	1.82	3.23	0.563 ok	0.565	0.505-0.625
Benzyl Chloride	16.62	10.03	1.657 ok	1.657	1.597-1.717
n-Butylbenzene	17.40	10.03	1.735 ok	1.734	1.674-1.794
sec-Butylbenzene	16.84	10.03	1.679 ok	1.678	1.618-1.738
tert-Butylbenzene	16.52	10.03	1.647 ok	1.647	1.587-1.707
Carbon disulfide	2.49	3.23	0.771 ok	0.772	0.712-0.832
Chlorobenzene	10.10	10.03	1.007 ok	1.007	0.947-1.067
Chlorodifluoromethane	1.64	3.23	0.508 ok	0.508	0.448-0.568
Chloroethane	1.93	3.23	0.598 ok	0.598	0.538-0.658
Chlorotrifluoroethene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Chloroform	3.30	3.23	1.022 ok	1.022	0.962-1.082
Chloromethane	1.71	3.23	0.529 ok	0.530	0.470-0.590
3-Chloropropene	2.44	3.23	0.755 ok	0.756	0.696-0.816
2-Chlorotoluene	14.85	10.03	1.481 ok	1.480	1.420-1.540
Carbon tetrachloride	4.28	3.23	1.325 ok	1.326	1.266-1.386
Cyclohexane	4.38	4.50	0.973 ok	0.974	0.914-1.034
1,1-Dichloroethane	2.80	3.23	0.867 ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.36	3.23	0.731 ok	0.731	0.671-0.791
1,2-Dibromoethane (EDB)	8.06	4.50	1.791 ok	1.794	1.734-1.854
1,2-Dichloroethane	3.70	3.23	1.146 ok	1.147	1.087-1.207
1,2-Dichloropropane	4.84	4.50	1.076 ok	1.075	1.015-1.135
1,3-Dichloropropane	7.25	4.50	1.611 ok	1.613	1.553-1.673
1,4-Dioxane	5.23	4.50	1.162 ok	1.142	1.082-1.202
Dichlorodifluoromethane	1.67	3.23	0.517 ok	0.517	0.457-0.577
Dichlorofluoromethane	1.96	3.23	0.607 ok	0.607	0.547-0.667
Dibromochloromethane	7.72	4.50	1.716 ok	1.718	1.658-1.778
Dibromomethane	4.79	4.50	1.064 ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.72	3.23	0.842 ok	0.843	0.783-0.903

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.15	3.23	0.975	ok 0.976	0.916-1.036
cis-1,3-Dichloropropene	5.99	4.50	1.331	ok 1.333	1.273-1.393
m-Dichlorobenzene	16.60	10.03	1.655	ok 1.655	1.595-1.715
o-Dichlorobenzene	17.01	10.03	1.696	ok 1.695	1.635-1.755
p-Dichlorobenzene	16.69	10.03	1.664	ok 1.663	1.603-1.723
trans-1,3-Dichloropropene	6.67	4.50	1.482	ok 1.484	1.424-1.544
Di-Isopropyl ether	3.30	3.23	1.022	ok 1.018	0.958-1.078
2,3-Dimethylpentane	4.63	4.50	1.029	ok 1.030	0.970-1.090
2,4-Dimethylpentane	3.78	3.23	1.170	ok 1.173	1.113-1.233
Ethanol	1.98	3.23	0.613	ok 0.609	0.549-0.669
Ethylbenzene	10.99	10.03	1.096	ok 1.095	1.035-1.155
Ethyl Acetate	3.31	3.23	1.025	ok 1.020	0.960-1.080
Ethyl Acrylate	4.98	4.50	1.107	ok 1.104	1.044-1.164
4-Ethyltoluene	15.64	10.03	1.559	ok 1.559	1.499-1.619
Freon 113	2.49	3.23	0.771	ok 0.772	0.712-0.832
Freon 114	1.74	3.23	0.539	ok 0.539	0.479-0.599
Freon 115	1.60	3.23	0.495	ok 0.496	0.436-0.556
Freon 123	2.07	3.23	0.641	ok 0.642	0.582-0.702
Freon 123A	2.09	3.23	0.647	ok 0.648	0.588-0.708
Freon 142B	1.70	3.23	0.526	ok 0.528	0.468-0.588
Freon 152A	1.62	3.23	0.502	ok 0.504	0.444-0.564
Heptane	5.47	4.50	1.216	ok 1.217	1.157-1.277
Hexachlorobutadiene	18.63	10.03	1.857	ok 1.857	1.797-1.917
Hexachloroethane	17.57	10.03	1.752	ok 1.751	1.691-1.811
Hexane	3.28	3.23	1.015	ok 1.015	0.955-1.075
2-Hexanone	7.85	4.50	1.744	ok 1.734	1.674-1.794
Iodomethane	2.33	3.23	0.721	ok 0.722	0.662-0.782
Isopropylbenzene	13.86	10.03	1.382	ok 1.381	1.321-1.441
Isopropyl Alcohol	2.20	3.23	0.681	ok 0.676	0.616-0.736
p-Isopropyltoluene	17.03	10.03	1.698	ok 1.697	1.637-1.757
Methylene chloride	2.40	3.23	0.743	ok 0.743	0.683-0.803
Methyl ethyl ketone	2.98	3.23	0.923	ok 0.919	0.859-0.979
Methyl Isobutyl Ketone	6.17	4.50	1.371	ok 1.361	1.301-1.421
Methyl Tert Butyl Ether	2.85	3.23	0.882	ok 0.876	0.816-0.936
Methylmethacrylate	5.39	4.50	1.198	ok 1.196	1.136-1.256
Naphthalene	18.37	10.03	1.832	ok 1.831	1.771-1.891
Nonane	13.47	10.03	1.343	ok 1.343	1.283-1.403
Octane	9.05	4.50	2.011	ok 2.017	1.957-2.077
Pentane	2.27	3.23	0.703	ok 0.703	0.643-0.763

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.20	10.03	1.515 ok	1.515	1.455-1.575
Propylene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Styrene	12.14	10.03	1.210 ok	1.210	1.150-1.270
1,1,1-Trichloroethane	3.87	3.23	1.198 ok	1.198	1.138-1.258
1,1,1,2-Tetrachloroethane	10.12	10.03	1.009 ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.36	10.03	1.232 ok	1.232	1.172-1.292
1,1,2-Trichloroethane	6.82	4.50	1.516 ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.32	10.03	1.827 ok	1.826	1.766-1.886
1,2,3-Trichloropropane	12.64	10.03	1.260 ok	1.260	1.200-1.320
1,2,3-Trimethylbenzene	16.96	10.03	1.691 ok	1.690	1.630-1.750
1,2,4-Trimethylbenzene	16.53	10.03	1.648 ok	1.648	1.588-1.708
1,3,5-Trimethylbenzene	15.91	10.03	1.586 ok	1.586	1.526-1.646
2,2,4-Trimethylpentane	5.16	4.50	1.147 ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.43	3.23	0.752 ok	0.740	0.680-0.800
Tetrachloroethylene	8.90	4.50	1.978 ok	1.982	1.922-2.042
Tetrahydrofuran	3.54	3.23	1.096 ok	1.091	1.031-1.151
Toluene	7.19	4.50	1.598 ok	1.600	1.540-1.660
Trichloroethylene	5.06	4.50	1.124 ok	1.127	1.067-1.187
Trichlorofluoromethane	2.16	3.23	0.669 ok	0.669	0.609-0.729
Vinyl chloride	1.77	3.23	0.548 ok	0.548	0.488-0.608
Vinyl Acetate	2.87	3.23	0.889 ok	0.887	0.827-0.947
m,p-Xylene	11.43	10.03	1.140 ok	1.138	1.078-1.198
o-Xylene	12.34	10.03	1.230 ok	1.231	1.171-1.291
TVHC As Equiv Pentane	2.27	10.03	0.226 ok	0.226	0.166-0.286

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.23 ok	3.23	2.90-3.56	135376	ok 131593	78956-184230
1,4-Difluorobenzene	4.50 ok	4.49	4.16-4.82	684640	ok 662398	397439-927357
Chlorobenzene-D5	10.03 ok	10.03	9.70-10.36	633519	ok 618891	371335-866447

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15 Reporting this level
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.11	3.23	0.653 ok	0.652	0.592-0.712
Acrolein	2.07	3.23	0.641 ok	0.640	0.580-0.700
Acrylonitrile	2.24	3.23	0.693 ok	0.695	0.635-0.755
Acetonitrile	2.03	3.23	0.628 ok	0.628	0.568-0.688
1,3-Butadiene	1.81	3.23	0.560 ok	0.561	0.501-0.621
Benzene	4.17	3.23	1.291 ok	1.292	1.232-1.352
Bromobenzene	13.71	10.03	1.367 ok	1.368	1.308-1.428
Bromodichloromethane	5.01	4.49	1.116 ok	1.114	1.054-1.174
Bromoform	11.22	10.03	1.119 ok	1.119	1.059-1.179
Bromomethane	1.89	3.23	0.585 ok	0.584	0.524-0.644
Bromoethene	2.03	3.23	0.628 ok	0.629	0.569-0.689
n-Butane	1.82	3.23	0.563 ok	0.565	0.505-0.625
Benzyl Chloride	16.62	10.03	1.657 ok	1.657	1.597-1.717
n-Butylbenzene	17.39	10.03	1.734 ok	1.734	1.674-1.794
sec-Butylbenzene	16.84	10.03	1.679 ok	1.678	1.618-1.738
tert-Butylbenzene	16.52	10.03	1.647 ok	1.647	1.587-1.707
Carbon disulfide	2.49	3.23	0.771 ok	0.772	0.712-0.832
Chlorobenzene	10.10	10.03	1.007 ok	1.007	0.947-1.067
Chlorodifluoromethane	1.64	3.23	0.508 ok	0.508	0.448-0.568
Chloroethane	1.93	3.23	0.598 ok	0.598	0.538-0.658
Chlorotrifluoroethene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Chloroform	3.30	3.23	1.022 ok	1.022	0.962-1.082
Chloromethane	1.71	3.23	0.529 ok	0.530	0.470-0.590
3-Chloropropene	2.44	3.23	0.755 ok	0.756	0.696-0.816
2-Chlorotoluene	14.85	10.03	1.481 ok	1.480	1.420-1.540
Carbon tetrachloride	4.28	3.23	1.325 ok	1.326	1.266-1.386
Cyclohexane	4.37	4.49	0.973 ok	0.974	0.914-1.034
1,1-Dichloroethane	2.79	3.23	0.864 ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.36	3.23	0.731 ok	0.731	0.671-0.791
1,2-Dibromoethane (EDB)	8.06	4.49	1.795 ok	1.794	1.734-1.854
1,2-Dichloroethane	3.70	3.23	1.146 ok	1.147	1.087-1.207
1,2-Dichloropropane	4.83	4.49	1.076 ok	1.075	1.015-1.135
1,3-Dichloropropane	7.25	4.49	1.615 ok	1.613	1.553-1.673
1,4-Dioxane	5.14	4.49	1.145 ok	1.142	1.082-1.202
Dichlorodifluoromethane	1.67	3.23	0.517 ok	0.517	0.457-0.577
Dichlorofluoromethane	1.96	3.23	0.607 ok	0.607	0.547-0.667
Dibromochloromethane	7.72	4.49	1.719 ok	1.718	1.658-1.778
Dibromomethane	4.79	4.49	1.067 ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.72	3.23	0.842 ok	0.843	0.783-0.903

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15 Reporting this level
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.15	3.23	0.975 ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	5.99	4.49	1.334 ok	1.333	1.273-1.393
m-Dichlorobenzene	16.60	10.03	1.655 ok	1.655	1.595-1.715
o-Dichlorobenzene	17.01	10.03	1.696 ok	1.695	1.635-1.755
p-Dichlorobenzene	16.69	10.03	1.664 ok	1.663	1.603-1.723
trans-1,3-Dichloropropene	6.66	4.49	1.483 ok	1.484	1.424-1.544
Di-Isopropyl ether	3.28	3.23	1.015 ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.63	4.49	1.031 ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.79	3.23	1.173 ok	1.173	1.113-1.233
Ethanol	1.96	3.23	0.607 ok	0.609	0.549-0.669
Ethylbenzene	10.99	10.03	1.096 ok	1.095	1.035-1.155
Ethyl Acetate	3.29	3.23	1.019 ok	1.020	0.960-1.080
Ethyl Acrylate	4.96	4.49	1.105 ok	1.104	1.044-1.164
4-Ethyltoluene	15.64	10.03	1.559 ok	1.559	1.499-1.619
Freon 113	2.49	3.23	0.771 ok	0.772	0.712-0.832
Freon 114	1.74	3.23	0.539 ok	0.539	0.479-0.599
Freon 115	1.60	3.23	0.495 ok	0.496	0.436-0.556
Freon 123	2.07	3.23	0.641 ok	0.642	0.582-0.702
Freon 123A	2.09	3.23	0.647 ok	0.648	0.588-0.708
Freon 142B	1.71	3.23	0.529 ok	0.528	0.468-0.588
Freon 152A	1.63	3.23	0.505 ok	0.504	0.444-0.564
Heptane	5.47	4.49	1.218 ok	1.217	1.157-1.277
Hexachlorobutadiene	18.63	10.03	1.857 ok	1.857	1.797-1.917
Hexachloroethane	17.57	10.03	1.752 ok	1.751	1.691-1.811
Hexane	3.28	3.23	1.015 ok	1.015	0.955-1.075
2-Hexanone	7.79	4.49	1.735 ok	1.734	1.674-1.794
Iodomethane	2.33	3.23	0.721 ok	0.722	0.662-0.782
Isopropylbenzene	13.85	10.03	1.381 ok	1.381	1.321-1.441
Isopropyl Alcohol	2.18	3.23	0.675 ok	0.676	0.616-0.736
p-Isopropyltoluene	17.03	10.03	1.698 ok	1.697	1.637-1.757
Methylene chloride	2.40	3.23	0.743 ok	0.743	0.683-0.803
Methyl ethyl ketone	2.97	3.23	0.920 ok	0.919	0.859-0.979
Methyl Isobutyl Ketone	6.12	4.49	1.363 ok	1.361	1.301-1.421
Methyl Tert Butyl Ether	2.83	3.23	0.876 ok	0.876	0.816-0.936
Methylmethacrylate	5.37	4.49	1.196 ok	1.196	1.136-1.256
Naphthalene	18.37	10.03	1.832 ok	1.831	1.771-1.891
Nonane	13.47	10.03	1.343 ok	1.343	1.283-1.403
Octane	9.06	4.49	2.018 ok	2.017	1.957-2.077
Pentane	2.27	3.23	0.703 ok	0.703	0.643-0.763

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.19	10.03	1.514 ok	1.515	1.455-1.575
Propylene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Styrene	12.14	10.03	1.210 ok	1.210	1.150-1.270
1,1,1-Trichloroethane	3.86	3.23	1.195 ok	1.198	1.138-1.258
1,1,1,2-Tetrachloroethane	10.11	10.03	1.008 ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.35	10.03	1.231 ok	1.232	1.172-1.292
1,1,2-Trichloroethane	6.82	4.49	1.519 ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.32	10.03	1.827 ok	1.826	1.766-1.886
1,2,3-Trichloropropane	12.64	10.03	1.260 ok	1.260	1.200-1.320
1,2,3-Trimethylbenzene	16.95	10.03	1.690 ok	1.690	1.630-1.750
1,2,4-Trimethylbenzene	16.53	10.03	1.648 ok	1.648	1.588-1.708
1,3,5-Trimethylbenzene	15.91	10.03	1.586 ok	1.586	1.526-1.646
2,2,4-Trimethylpentane	5.15	4.49	1.147 ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.40	3.23	0.743 ok	0.740	0.680-0.800
Tetrachloroethylene	8.90	4.49	1.982 ok	1.982	1.922-2.042
Tetrahydrofuran	3.52	3.23	1.090 ok	1.091	1.031-1.151
Toluene	7.18	4.49	1.599 ok	1.600	1.540-1.660
Trichloroethylene	5.06	4.49	1.127 ok	1.127	1.067-1.187
Trichlorofluoromethane	2.16	3.23	0.669 ok	0.669	0.609-0.729
Vinyl chloride	1.77	3.23	0.548 ok	0.548	0.488-0.608
Vinyl Acetate	2.86	3.23	0.885 ok	0.887	0.827-0.947
m,p-Xylene	11.41	10.03	1.138 ok	1.138	1.078-1.198
o-Xylene	12.34	10.03	1.230 ok	1.231	1.171-1.291
TVHC As Equiv Pentane	2.27	10.03	0.226 ok	0.226	0.166-0.286

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.23 ok	3.23	2.90-3.56	130126 ok	131593	78956-184230
1,4-Difluorobenzene	4.49 ok	4.49	4.16-4.82	661732 ok	662398	397439-927357
Chlorobenzene-D5	10.03 ok	10.03	9.70-10.36	600657 ok	618891	371335-866447

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15 Reporting this level
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.11	3.23	0.653 ok	0.652	0.592-0.712
Acrolein	2.07	3.23	0.641 ok	0.640	0.580-0.700
Acrylonitrile	2.25	3.23	0.697 ok	0.695	0.635-0.755
Acetonitrile	2.03	3.23	0.628 ok	0.628	0.568-0.688
1,3-Butadiene	1.81	3.23	0.560 ok	0.561	0.501-0.621
Benzene	4.17	3.23	1.291 ok	1.292	1.232-1.352
Bromobenzene	13.72	10.04	1.367 ok	1.368	1.308-1.428
Bromodichloromethane	5.01	4.50	1.113 ok	1.114	1.054-1.174
Bromoform	11.23	10.04	1.119 ok	1.119	1.059-1.179
Bromomethane	1.89	3.23	0.585 ok	0.584	0.524-0.644
Bromoethene	2.04	3.23	0.632 ok	0.629	0.569-0.689
n-Butane	1.83	3.23	0.567 ok	0.565	0.505-0.625
Benzyl Chloride	16.63	10.04	1.656 ok	1.657	1.597-1.717
n-Butylbenzene	17.40	10.04	1.733 ok	1.734	1.674-1.794
sec-Butylbenzene	16.84	10.04	1.677 ok	1.678	1.618-1.738
tert-Butylbenzene	16.53	10.04	1.646 ok	1.647	1.587-1.707
Carbon disulfide	2.50	3.23	0.774 ok	0.772	0.712-0.832
Chlorobenzene	10.11	10.04	1.007 ok	1.007	0.947-1.067
Chlorodifluoromethane	1.64	3.23	0.508 ok	0.508	0.448-0.568
Chloroethane	1.93	3.23	0.598 ok	0.598	0.538-0.658
Chlorotrifluoroethene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Chloroform	3.30	3.23	1.022 ok	1.022	0.962-1.082
Chloromethane	1.71	3.23	0.529 ok	0.530	0.470-0.590
3-Chloropropene	2.44	3.23	0.755 ok	0.756	0.696-0.816
2-Chlorotoluene	14.86	10.04	1.480 ok	1.480	1.420-1.540
Carbon tetrachloride	4.29	3.23	1.328 ok	1.326	1.266-1.386
Cyclohexane	4.38	4.50	0.973 ok	0.974	0.914-1.034
1,1-Dichloroethane	2.80	3.23	0.867 ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.36	3.23	0.731 ok	0.731	0.671-0.791
1,2-Dibromoethane (EDB)	8.06	4.50	1.791 ok	1.794	1.734-1.854
1,2-Dichloroethane	3.70	3.23	1.146 ok	1.147	1.087-1.207
1,2-Dichloropropane	4.83	4.50	1.073 ok	1.075	1.015-1.135
1,3-Dichloropropane	7.25	4.50	1.611 ok	1.613	1.553-1.673
1,4-Dioxane	5.12	4.50	1.138 ok	1.142	1.082-1.202
Dichlorodifluoromethane	1.67	3.23	0.517 ok	0.517	0.457-0.577
Dichlorofluoromethane	1.96	3.23	0.607 ok	0.607	0.547-0.667
Dibromochloromethane	7.72	4.50	1.716 ok	1.718	1.658-1.778
Dibromomethane	4.79	4.50	1.064 ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.72	3.23	0.842 ok	0.843	0.783-0.903

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15 Reporting this level
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.15	3.23	0.975 ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	5.99	4.50	1.331 ok	1.333	1.273-1.393
m-Dichlorobenzene	16.60	10.04	1.653 ok	1.655	1.595-1.715
o-Dichlorobenzene	17.01	10.04	1.694 ok	1.695	1.635-1.755
p-Dichlorobenzene	16.69	10.04	1.662 ok	1.663	1.603-1.723
trans-1,3-Dichloropropene	6.67	4.50	1.482 ok	1.484	1.424-1.544
Di-Isopropyl ether	3.28	3.23	1.015 ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.63	4.50	1.029 ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.79	3.23	1.173 ok	1.173	1.113-1.233
Ethanol	1.97	3.23	0.610 ok	0.609	0.549-0.669
Ethylbenzene	10.99	10.04	1.095 ok	1.095	1.035-1.155
Ethyl Acetate	3.29	3.23	1.019 ok	1.020	0.960-1.080
Ethyl Acrylate	4.96	4.50	1.102 ok	1.104	1.044-1.164
4-Ethyltoluene	15.64	10.04	1.558 ok	1.559	1.499-1.619
Freon 113	2.50	3.23	0.774 ok	0.772	0.712-0.832
Freon 114	1.74	3.23	0.539 ok	0.539	0.479-0.599
Freon 115	1.60	3.23	0.495 ok	0.496	0.436-0.556
Freon 123	2.08	3.23	0.644 ok	0.642	0.582-0.702
Freon 123A	2.09	3.23	0.647 ok	0.648	0.588-0.708
Freon 142B	1.71	3.23	0.529 ok	0.528	0.468-0.588
Freon 152A	1.63	3.23	0.505 ok	0.504	0.444-0.564
Heptane	5.47	4.50	1.216 ok	1.217	1.157-1.277
Hexachlorobutadiene	18.63	10.04	1.856 ok	1.857	1.797-1.917
Hexachloroethane	17.58	10.04	1.751 ok	1.751	1.691-1.811
Hexane	3.28	3.23	1.015 ok	1.015	0.955-1.075
2-Hexanone	7.80	4.50	1.733 ok	1.734	1.674-1.794
Iodomethane	2.34	3.23	0.724 ok	0.722	0.662-0.782
Isopropylbenzene	13.86	10.04	1.380 ok	1.381	1.321-1.441
Isopropyl Alcohol	2.19	3.23	0.678 ok	0.676	0.616-0.736
p-Isopropyltoluene	17.03	10.04	1.696 ok	1.697	1.637-1.757
Methylene chloride	2.40	3.23	0.743 ok	0.743	0.683-0.803
Methyl ethyl ketone	2.96	3.23	0.916 ok	0.919	0.859-0.979
Methyl Isobutyl Ketone	6.12	4.50	1.360 ok	1.361	1.301-1.421
Methyl Tert Butyl Ether	2.83	3.23	0.876 ok	0.876	0.816-0.936
Methylmethacrylate	5.37	4.50	1.193 ok	1.196	1.136-1.256
Naphthalene	18.37	10.04	1.830 ok	1.831	1.771-1.891
Nonane	13.47	10.04	1.342 ok	1.343	1.283-1.403
Octane	9.06	4.50	2.013 ok	2.017	1.957-2.077
Pentane	2.27	3.23	0.703 ok	0.703	0.643-0.763

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15 Reporting this level
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.19	10.04	1.513 ok	1.515	1.455-1.575
Propylene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Styrene	12.14	10.04	1.209 ok	1.210	1.150-1.270
1,1,1-Trichloroethane	3.87	3.23	1.198 ok	1.198	1.138-1.258
1,1,1,2-Tetrachloroethane	10.12	10.04	1.008 ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.36	10.04	1.231 ok	1.232	1.172-1.292
1,1,2-Trichloroethane	6.82	4.50	1.516 ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.32	10.04	1.825 ok	1.826	1.766-1.886
1,2,3-Trichloropropane	12.64	10.04	1.259 ok	1.260	1.200-1.320
1,2,3-Trimethylbenzene	16.96	10.04	1.689 ok	1.690	1.630-1.750
1,2,4-Trimethylbenzene	16.53	10.04	1.646 ok	1.648	1.588-1.708
1,3,5-Trimethylbenzene	15.91	10.04	1.585 ok	1.586	1.526-1.646
2,2,4-Trimethylpentane	5.16	4.50	1.147 ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.40	3.23	0.743 ok	0.740	0.680-0.800
Tetrachloroethylene	8.91	4.50	1.980 ok	1.982	1.922-2.042
Tetrahydrofuran	3.52	3.23	1.090 ok	1.091	1.031-1.151
Toluene	7.19	4.50	1.598 ok	1.600	1.540-1.660
Trichloroethylene	5.06	4.50	1.124 ok	1.127	1.067-1.187
Trichlorofluoromethane	2.16	3.23	0.669 ok	0.669	0.609-0.729
Vinyl chloride	1.77	3.23	0.548 ok	0.548	0.488-0.608
Vinyl Acetate	2.87	3.23	0.889 ok	0.887	0.827-0.947
m,p-Xylene	11.41	10.04	1.136 ok	1.138	1.078-1.198
o-Xylene	12.35	10.04	1.230 ok	1.231	1.171-1.291
TVHC As Equiv Pentane	2.27	10.04	0.226 ok	0.226	0.166-0.286

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.23 ok	3.23	2.90-3.56	131992	ok 131593	78956-184230
1,4-Difluorobenzene	4.50 ok	4.49	4.16-4.82	667855	ok 662398	397439-927357
Chlorobenzene-D5	10.04 ok	10.03	9.70-10.36	626654	ok 618891	371335-866447

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.10	3.23	0.650 ok	0.652	0.592-0.712
Acrolein	2.06	3.23	0.638 ok	0.640	0.580-0.700
Acrylonitrile	2.24	3.23	0.693 ok	0.695	0.635-0.755
Acetonitrile	2.02	3.23	0.625 ok	0.628	0.568-0.688
1,3-Butadiene	1.81	3.23	0.560 ok	0.561	0.501-0.621
Benzene	4.17	3.23	1.291 ok	1.292	1.232-1.352
Bromobenzene	13.72	10.03	1.368 ok	1.368	1.308-1.428
Bromodichloromethane	5.01	4.49	1.116 ok	1.114	1.054-1.174
Bromoform	11.23	10.03	1.120 ok	1.119	1.059-1.179
Bromomethane	1.88	3.23	0.582 ok	0.584	0.524-0.644
Bromoethene	2.03	3.23	0.628 ok	0.629	0.569-0.689
n-Butane	1.82	3.23	0.563 ok	0.565	0.505-0.625
Benzyl Chloride	16.63	10.03	1.658 ok	1.657	1.597-1.717
n-Butylbenzene	17.39	10.03	1.734 ok	1.734	1.674-1.794
sec-Butylbenzene	16.84	10.03	1.679 ok	1.678	1.618-1.738
tert-Butylbenzene	16.53	10.03	1.648 ok	1.647	1.587-1.707
Carbon disulfide	2.49	3.23	0.771 ok	0.772	0.712-0.832
Chlorobenzene	10.11	10.03	1.008 ok	1.007	0.947-1.067
Chlorodifluoromethane	1.64	3.23	0.508 ok	0.508	0.448-0.568
Chloroethane	1.93	3.23	0.598 ok	0.598	0.538-0.658
Chlorotrifluoroethene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Chloroform	3.30	3.23	1.022 ok	1.022	0.962-1.082
Chloromethane	1.71	3.23	0.529 ok	0.530	0.470-0.590
3-Chloropropene	2.44	3.23	0.755 ok	0.756	0.696-0.816
2-Chlorotoluene	14.85	10.03	1.481 ok	1.480	1.420-1.540
Carbon tetrachloride	4.28	3.23	1.325 ok	1.326	1.266-1.386
Cyclohexane	4.38	4.49	0.976 ok	0.974	0.914-1.034
1,1-Dichloroethane	2.79	3.23	0.864 ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.36	3.23	0.731 ok	0.731	0.671-0.791
1,2-Dibromoethane (EDB)	8.06	4.49	1.795 ok	1.794	1.734-1.854
1,2-Dichloroethane	3.70	3.23	1.146 ok	1.147	1.087-1.207
1,2-Dichloropropane	4.83	4.49	1.076 ok	1.075	1.015-1.135
1,3-Dichloropropane	7.25	4.49	1.615 ok	1.613	1.553-1.673
1,4-Dioxane	5.08	4.49	1.131 ok	1.142	1.082-1.202
Dichlorodifluoromethane	1.66	3.23	0.514 ok	0.517	0.457-0.577
Dichlorofluoromethane	1.96	3.23	0.607 ok	0.607	0.547-0.667
Dibromochloromethane	7.72	4.49	1.719 ok	1.718	1.658-1.778
Dibromomethane	4.79	4.49	1.067 ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.72	3.23	0.842 ok	0.843	0.783-0.903

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.15	3.23	0.975	ok 0.976	0.916-1.036
cis-1,3-Dichloropropene	5.99	4.49	1.334	ok 1.333	1.273-1.393
m-Dichlorobenzene	16.60	10.03	1.655	ok 1.655	1.595-1.715
o-Dichlorobenzene	17.01	10.03	1.696	ok 1.695	1.635-1.755
p-Dichlorobenzene	16.69	10.03	1.664	ok 1.663	1.603-1.723
trans-1,3-Dichloropropene	6.66	4.49	1.483	ok 1.484	1.424-1.544
Di-Isopropyl ether	3.28	3.23	1.015	ok 1.018	0.958-1.078
2,3-Dimethylpentane	4.63	4.49	1.031	ok 1.030	0.970-1.090
2,4-Dimethylpentane	3.79	3.23	1.173	ok 1.173	1.113-1.233
Ethanol	1.96	3.23	0.607	ok 0.609	0.549-0.669
Ethylbenzene	10.99	10.03	1.096	ok 1.095	1.035-1.155
Ethyl Acetate	3.28	3.23	1.015	ok 1.020	0.960-1.080
Ethyl Acrylate	4.95	4.49	1.102	ok 1.104	1.044-1.164
4-Ethyltoluene	15.64	10.03	1.559	ok 1.559	1.499-1.619
Freon 113	2.49	3.23	0.771	ok 0.772	0.712-0.832
Freon 114	1.74	3.23	0.539	ok 0.539	0.479-0.599
Freon 115	1.60	3.23	0.495	ok 0.496	0.436-0.556
Freon 123	2.07	3.23	0.641	ok 0.642	0.582-0.702
Freon 123A	2.09	3.23	0.647	ok 0.648	0.588-0.708
Freon 142B	1.70	3.23	0.526	ok 0.528	0.468-0.588
Freon 152A	1.62	3.23	0.502	ok 0.504	0.444-0.564
Heptane	5.47	4.49	1.218	ok 1.217	1.157-1.277
Hexachlorobutadiene	18.63	10.03	1.857	ok 1.857	1.797-1.917
Hexachloroethane	17.57	10.03	1.752	ok 1.751	1.691-1.811
Hexane	3.27	3.23	1.012	ok 1.015	0.955-1.075
2-Hexanone	7.76	4.49	1.728	ok 1.734	1.674-1.794
Iodomethane	2.33	3.23	0.721	ok 0.722	0.662-0.782
Isopropylbenzene	13.86	10.03	1.382	ok 1.381	1.321-1.441
Isopropyl Alcohol	2.17	3.23	0.672	ok 0.676	0.616-0.736
p-Isopropyltoluene	17.03	10.03	1.698	ok 1.697	1.637-1.757
Methylene chloride	2.40	3.23	0.743	ok 0.743	0.683-0.803
Methyl ethyl ketone	2.96	3.23	0.916	ok 0.919	0.859-0.979
Methyl Isobutyl Ketone	6.09	4.49	1.356	ok 1.361	1.301-1.421
Methyl Tert Butyl Ether	2.82	3.23	0.873	ok 0.876	0.816-0.936
Methylmethacrylate	5.37	4.49	1.196	ok 1.196	1.136-1.256
Naphthalene	18.37	10.03	1.832	ok 1.831	1.771-1.891
Nonane	13.47	10.03	1.343	ok 1.343	1.283-1.403
Octane	9.06	4.49	2.018	ok 2.017	1.957-2.077
Pentane	2.27	3.23	0.703	ok 0.703	0.643-0.763

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.20	10.03	1.515 ok	1.515	1.455-1.575
Propylene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Styrene	12.13	10.03	1.209 ok	1.210	1.150-1.270
1,1,1-Trichloroethane	3.86	3.23	1.195 ok	1.198	1.138-1.258
1,1,1,2-Tetrachloroethane	10.12	10.03	1.009 ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.36	10.03	1.232 ok	1.232	1.172-1.292
1,1,2-Trichloroethane	6.82	4.49	1.519 ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.32	10.03	1.827 ok	1.826	1.766-1.886
1,2,3-Trichloropropane	12.64	10.03	1.260 ok	1.260	1.200-1.320
1,2,3-Trimethylbenzene	16.96	10.03	1.691 ok	1.690	1.630-1.750
1,2,4-Trimethylbenzene	16.53	10.03	1.648 ok	1.648	1.588-1.708
1,3,5-Trimethylbenzene	15.91	10.03	1.586 ok	1.586	1.526-1.646
2,2,4-Trimethylpentane	5.16	4.49	1.149 ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.37	3.23	0.734 ok	0.740	0.680-0.800
Tetrachloroethylene	8.91	4.49	1.984 ok	1.982	1.922-2.042
Tetrahydrofuran	3.51	3.23	1.087 ok	1.091	1.031-1.151
Toluene	7.19	4.49	1.601 ok	1.600	1.540-1.660
Trichloroethylene	5.06	4.49	1.127 ok	1.127	1.067-1.187
Trichlorofluoromethane	2.16	3.23	0.669 ok	0.669	0.609-0.729
Vinyl chloride	1.77	3.23	0.548 ok	0.548	0.488-0.608
Vinyl Acetate	2.86	3.23	0.885 ok	0.887	0.827-0.947
m,p-Xylene	11.42	10.03	1.139 ok	1.138	1.078-1.198
o-Xylene	12.34	10.03	1.230 ok	1.231	1.171-1.291
TVHC As Equiv Pentane	2.27	10.03	0.226 ok	0.226	0.166-0.286

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.23 ok	3.23	2.90-3.56	131378	ok 131593	78956-184230
1,4-Difluorobenzene	4.49 ok	4.49	4.16-4.82	659033	ok 662398	397439-927357
Chlorobenzene-D5	10.03 ok	10.03	9.70-10.36	616113	ok 618891	371335-866447

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.10	3.23	0.650 ok	0.652	0.592-0.712
Acrolein	2.06	3.23	0.638 ok	0.640	0.580-0.700
Acrylonitrile	2.24	3.23	0.693 ok	0.695	0.635-0.755
Acetonitrile	2.02	3.23	0.625 ok	0.628	0.568-0.688
1,3-Butadiene	1.81	3.23	0.560 ok	0.561	0.501-0.621
Benzene	4.17	3.23	1.291 ok	1.292	1.232-1.352
Bromobenzene	13.73	10.04	1.368 ok	1.368	1.308-1.428
Bromodichloromethane	5.01	4.49	1.116 ok	1.114	1.054-1.174
Bromoform	11.23	10.04	1.119 ok	1.119	1.059-1.179
Bromomethane	1.88	3.23	0.582 ok	0.584	0.524-0.644
Bromoethene	2.03	3.23	0.628 ok	0.629	0.569-0.689
n-Butane	1.82	3.23	0.563 ok	0.565	0.505-0.625
Benzyl Chloride	16.63	10.04	1.656 ok	1.657	1.597-1.717
n-Butylbenzene	17.40	10.04	1.733 ok	1.734	1.674-1.794
sec-Butylbenzene	16.84	10.04	1.677 ok	1.678	1.618-1.738
tert-Butylbenzene	16.53	10.04	1.646 ok	1.647	1.587-1.707
Carbon disulfide	2.49	3.23	0.771 ok	0.772	0.712-0.832
Chlorobenzene	10.11	10.04	1.007 ok	1.007	0.947-1.067
Chlorodifluoromethane	1.64	3.23	0.508 ok	0.508	0.448-0.568
Chloroethane	1.93	3.23	0.598 ok	0.598	0.538-0.658
Chlorotrifluoroethene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Chloroform	3.30	3.23	1.022 ok	1.022	0.962-1.082
Chloromethane	1.71	3.23	0.529 ok	0.530	0.470-0.590
3-Chloropropene	2.44	3.23	0.755 ok	0.756	0.696-0.816
2-Chlorotoluene	14.86	10.04	1.480 ok	1.480	1.420-1.540
Carbon tetrachloride	4.28	3.23	1.325 ok	1.326	1.266-1.386
Cyclohexane	4.38	4.49	0.976 ok	0.974	0.914-1.034
1,1-Dichloroethane	2.79	3.23	0.864 ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.36	3.23	0.731 ok	0.731	0.671-0.791
1,2-Dibromoethane (EDB)	8.06	4.49	1.795 ok	1.794	1.734-1.854
1,2-Dichloroethane	3.70	3.23	1.146 ok	1.147	1.087-1.207
1,2-Dichloropropane	4.83	4.49	1.076 ok	1.075	1.015-1.135
1,3-Dichloropropane	7.25	4.49	1.615 ok	1.613	1.553-1.673
1,4-Dioxane	5.07	4.49	1.129 ok	1.142	1.082-1.202
Dichlorodifluoromethane	1.67	3.23	0.517 ok	0.517	0.457-0.577
Dichlorofluoromethane	1.96	3.23	0.607 ok	0.607	0.547-0.667
Dibromochloromethane	7.72	4.49	1.719 ok	1.718	1.658-1.778
Dibromomethane	4.79	4.49	1.067 ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.72	3.23	0.842 ok	0.843	0.783-0.903

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.15	3.23	0.975	ok 0.976	0.916-1.036
cis-1,3-Dichloropropene	5.99	4.49	1.334	ok 1.333	1.273-1.393
m-Dichlorobenzene	16.60	10.04	1.653	ok 1.655	1.595-1.715
o-Dichlorobenzene	17.01	10.04	1.694	ok 1.695	1.635-1.755
p-Dichlorobenzene	16.69	10.04	1.662	ok 1.663	1.603-1.723
trans-1,3-Dichloropropene	6.67	4.49	1.486	ok 1.484	1.424-1.544
Di-Isopropyl ether	3.28	3.23	1.015	ok 1.018	0.958-1.078
2,3-Dimethylpentane	4.63	4.49	1.031	ok 1.030	0.970-1.090
2,4-Dimethylpentane	3.79	3.23	1.173	ok 1.173	1.113-1.233
Ethanol	1.96	3.23	0.607	ok 0.609	0.549-0.669
Ethylbenzene	10.99	10.04	1.095	ok 1.095	1.035-1.155
Ethyl Acetate	3.28	3.23	1.015	ok 1.020	0.960-1.080
Ethyl Acrylate	4.95	4.49	1.102	ok 1.104	1.044-1.164
4-Ethyltoluene	15.64	10.04	1.558	ok 1.559	1.499-1.619
Freon 113	2.49	3.23	0.771	ok 0.772	0.712-0.832
Freon 114	1.74	3.23	0.539	ok 0.539	0.479-0.599
Freon 115	1.60	3.23	0.495	ok 0.496	0.436-0.556
Freon 123	2.07	3.23	0.641	ok 0.642	0.582-0.702
Freon 123A	2.09	3.23	0.647	ok 0.648	0.588-0.708
Freon 142B	1.70	3.23	0.526	ok 0.528	0.468-0.588
Freon 152A	1.62	3.23	0.502	ok 0.504	0.444-0.564
Heptane	5.47	4.49	1.218	ok 1.217	1.157-1.277
Hexachlorobutadiene	18.63	10.04	1.856	ok 1.857	1.797-1.917
Hexachloroethane	17.57	10.04	1.750	ok 1.751	1.691-1.811
Hexane	3.28	3.23	1.015	ok 1.015	0.955-1.075
2-Hexanone	7.76	4.49	1.728	ok 1.734	1.674-1.794
Iodomethane	2.33	3.23	0.721	ok 0.722	0.662-0.782
Isopropylbenzene	13.86	10.04	1.380	ok 1.381	1.321-1.441
Isopropyl Alcohol	2.17	3.23	0.672	ok 0.676	0.616-0.736
p-Isopropyltoluene	17.03	10.04	1.696	ok 1.697	1.637-1.757
Methylene chloride	2.40	3.23	0.743	ok 0.743	0.683-0.803
Methyl ethyl ketone	2.96	3.23	0.916	ok 0.919	0.859-0.979
Methyl Isobutyl Ketone	6.09	4.49	1.356	ok 1.361	1.301-1.421
Methyl Tert Butyl Ether	2.82	3.23	0.873	ok 0.876	0.816-0.936
Methylmethacrylate	5.37	4.49	1.196	ok 1.196	1.136-1.256
Naphthalene	18.37	10.04	1.830	ok 1.831	1.771-1.891
Nonane	13.48	10.04	1.343	ok 1.343	1.283-1.403
Octane	9.06	4.49	2.018	ok 2.017	1.957-2.077
Pentane	2.27	3.23	0.703	ok 0.703	0.643-0.763

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.20	10.04	1.514 ok	1.515	1.455-1.575
Propylene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Styrene	12.14	10.04	1.209 ok	1.210	1.150-1.270
1,1,1-Trichloroethane	3.86	3.23	1.195 ok	1.198	1.138-1.258
1,1,1,2-Tetrachloroethane	10.13	10.04	1.009 ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.36	10.04	1.231 ok	1.232	1.172-1.292
1,1,2-Trichloroethane	6.82	4.49	1.519 ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.32	10.04	1.825 ok	1.826	1.766-1.886
1,2,3-Trichloropropane	12.64	10.04	1.259 ok	1.260	1.200-1.320
1,2,3-Trimethylbenzene	16.96	10.04	1.689 ok	1.690	1.630-1.750
1,2,4-Trimethylbenzene	16.54	10.04	1.647 ok	1.648	1.588-1.708
1,3,5-Trimethylbenzene	15.92	10.04	1.586 ok	1.586	1.526-1.646
2,2,4-Trimethylpentane	5.16	4.49	1.149 ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.37	3.23	0.734 ok	0.740	0.680-0.800
Tetrachloroethylene	8.91	4.49	1.984 ok	1.982	1.922-2.042
Tetrahydrofuran	3.51	3.23	1.087 ok	1.091	1.031-1.151
Toluene	7.19	4.49	1.601 ok	1.600	1.540-1.660
Trichloroethylene	5.06	4.49	1.127 ok	1.127	1.067-1.187
Trichlorofluoromethane	2.16	3.23	0.669 ok	0.669	0.609-0.729
Vinyl chloride	1.77	3.23	0.548 ok	0.548	0.488-0.608
Vinyl Acetate	2.86	3.23	0.885 ok	0.887	0.827-0.947
m,p-Xylene	11.42	10.04	1.137 ok	1.138	1.078-1.198
o-Xylene	12.35	10.04	1.230 ok	1.231	1.171-1.291
TVHC As Equiv Pentane	2.27	10.04	0.226 ok	0.226	0.166-0.286

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.23 ok	3.23	2.90-3.56	126854	ok	131593
1,4-Difluorobenzene	4.49 ok	4.49	4.16-4.82	638427	ok	662398
Chlorobenzene-D5	10.04 ok	10.03	9.70-10.36	603108	ok	618891

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.10	3.23	0.650 ok	0.652	0.592-0.712
Acrolein	2.06	3.23	0.638 ok	0.640	0.580-0.700
Acrylonitrile	2.24	3.23	0.693 ok	0.695	0.635-0.755
Acetonitrile	2.02	3.23	0.625 ok	0.628	0.568-0.688
1,3-Butadiene	1.81	3.23	0.560 ok	0.561	0.501-0.621
Benzene	4.17	3.23	1.291 ok	1.292	1.232-1.352
Bromobenzene	13.74	10.04	1.369 ok	1.368	1.308-1.428
Bromodichloromethane	5.01	4.49	1.116 ok	1.114	1.054-1.174
Bromoform	11.24	10.04	1.120 ok	1.119	1.059-1.179
Bromomethane	1.88	3.23	0.582 ok	0.584	0.524-0.644
Bromoethene	2.03	3.23	0.628 ok	0.629	0.569-0.689
n-Butane	1.82	3.23	0.563 ok	0.565	0.505-0.625
Benzyl Chloride	16.63	10.04	1.656 ok	1.657	1.597-1.717
n-Butylbenzene	17.40	10.04	1.733 ok	1.734	1.674-1.794
sec-Butylbenzene	16.84	10.04	1.677 ok	1.678	1.618-1.738
tert-Butylbenzene	16.54	10.04	1.647 ok	1.647	1.587-1.707
Carbon disulfide	2.49	3.23	0.771 ok	0.772	0.712-0.832
Chlorobenzene	10.12	10.04	1.008 ok	1.007	0.947-1.067
Chlorodifluoromethane	1.64	3.23	0.508 ok	0.508	0.448-0.568
Chloroethane	1.93	3.23	0.598 ok	0.598	0.538-0.658
Chlorotrifluoroethene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Chloroform	3.30	3.23	1.022 ok	1.022	0.962-1.082
Chloromethane	1.71	3.23	0.529 ok	0.530	0.470-0.590
3-Chloropropene	2.44	3.23	0.755 ok	0.756	0.696-0.816
2-Chlorotoluene	14.87	10.04	1.481 ok	1.480	1.420-1.540
Carbon tetrachloride	4.28	3.23	1.325 ok	1.326	1.266-1.386
Cyclohexane	4.38	4.49	0.976 ok	0.974	0.914-1.034
1,1-Dichloroethane	2.79	3.23	0.864 ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.36	3.23	0.731 ok	0.731	0.671-0.791
1,2-Dibromoethane (EDB)	8.07	4.49	1.797 ok	1.794	1.734-1.854
1,2-Dichloroethane	3.70	3.23	1.146 ok	1.147	1.087-1.207
1,2-Dichloropropane	4.83	4.49	1.076 ok	1.075	1.015-1.135
1,3-Dichloropropane	7.25	4.49	1.615 ok	1.613	1.553-1.673
1,4-Dioxane	5.07	4.49	1.129 ok	1.142	1.082-1.202
Dichlorodifluoromethane	1.67	3.23	0.517 ok	0.517	0.457-0.577
Dichlorofluoromethane	1.96	3.23	0.607 ok	0.607	0.547-0.667
Dibromochloromethane	7.72	4.49	1.719 ok	1.718	1.658-1.778
Dibromomethane	4.79	4.49	1.067 ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.72	3.23	0.842 ok	0.843	0.783-0.903

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.15	3.23	0.975	ok 0.976	0.916-1.036
cis-1,3-Dichloropropene	5.99	4.49	1.334	ok 1.333	1.273-1.393
m-Dichlorobenzene	16.61	10.04	1.654	ok 1.655	1.595-1.715
o-Dichlorobenzene	17.02	10.04	1.695	ok 1.695	1.635-1.755
p-Dichlorobenzene	16.70	10.04	1.663	ok 1.663	1.603-1.723
trans-1,3-Dichloropropene	6.67	4.49	1.486	ok 1.484	1.424-1.544
Di-Isopropyl ether	3.28	3.23	1.015	ok 1.018	0.958-1.078
2,3-Dimethylpentane	4.63	4.49	1.031	ok 1.030	0.970-1.090
2,4-Dimethylpentane	3.79	3.23	1.173	ok 1.173	1.113-1.233
Ethanol	1.96	3.23	0.607	ok 0.609	0.549-0.669
Ethylbenzene	11.00	10.04	1.096	ok 1.095	1.035-1.155
Ethyl Acetate	3.29	3.23	1.019	ok 1.020	0.960-1.080
Ethyl Acrylate	4.95	4.49	1.102	ok 1.104	1.044-1.164
4-Ethyltoluene	15.65	10.04	1.559	ok 1.559	1.499-1.619
Freon 113	2.49	3.23	0.771	ok 0.772	0.712-0.832
Freon 114	1.74	3.23	0.539	ok 0.539	0.479-0.599
Freon 115	1.60	3.23	0.495	ok 0.496	0.436-0.556
Freon 123	2.08	3.23	0.644	ok 0.642	0.582-0.702
Freon 123A	2.09	3.23	0.647	ok 0.648	0.588-0.708
Freon 142B	1.71	3.23	0.529	ok 0.528	0.468-0.588
Freon 152A	1.63	3.23	0.505	ok 0.504	0.444-0.564
Heptane	5.47	4.49	1.218	ok 1.217	1.157-1.277
Hexachlorobutadiene	18.63	10.04	1.856	ok 1.857	1.797-1.917
Hexachloroethane	17.58	10.04	1.751	ok 1.751	1.691-1.811
Hexane	3.28	3.23	1.015	ok 1.015	0.955-1.075
2-Hexanone	7.76	4.49	1.728	ok 1.734	1.674-1.794
Iodomethane	2.33	3.23	0.721	ok 0.722	0.662-0.782
Isopropylbenzene	13.87	10.04	1.381	ok 1.381	1.321-1.441
Isopropyl Alcohol	2.17	3.23	0.672	ok 0.676	0.616-0.736
p-Isopropyltoluene	17.04	10.04	1.697	ok 1.697	1.637-1.757
Methylene chloride	2.40	3.23	0.743	ok 0.743	0.683-0.803
Methyl ethyl ketone	2.96	3.23	0.916	ok 0.919	0.859-0.979
Methyl Isobutyl Ketone	6.09	4.49	1.356	ok 1.361	1.301-1.421
Methyl Tert Butyl Ether	2.82	3.23	0.873	ok 0.876	0.816-0.936
Methylmethacrylate	5.37	4.49	1.196	ok 1.196	1.136-1.256
Naphthalene	18.37	10.04	1.830	ok 1.831	1.771-1.891
Nonane	13.48	10.04	1.343	ok 1.343	1.283-1.403
Octane	9.07	4.49	2.020	ok 2.017	1.957-2.077
Pentane	2.27	3.23	0.703	ok 0.703	0.643-0.763

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.21	10.04	1.515 ok	1.515	1.455-1.575
Propylene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Styrene	12.15	10.04	1.210 ok	1.210	1.150-1.270
1,1,1-Trichloroethane	3.87	3.23	1.198 ok	1.198	1.138-1.258
1,1,1,2-Tetrachloroethane	10.13	10.04	1.009 ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.38	10.04	1.233 ok	1.232	1.172-1.292
1,1,2-Trichloroethane	6.83	4.49	1.521 ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.33	10.04	1.826 ok	1.826	1.766-1.886
1,2,3-Trichloropropane	12.65	10.04	1.260 ok	1.260	1.200-1.320
1,2,3-Trimethylbenzene	16.96	10.04	1.689 ok	1.690	1.630-1.750
1,2,4-Trimethylbenzene	16.55	10.04	1.648 ok	1.648	1.588-1.708
1,3,5-Trimethylbenzene	15.93	10.04	1.587 ok	1.586	1.526-1.646
2,2,4-Trimethylpentane	5.16	4.49	1.149 ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.37	3.23	0.734 ok	0.740	0.680-0.800
Tetrachloroethylene	8.91	4.49	1.984 ok	1.982	1.922-2.042
Tetrahydrofuran	3.50	3.23	1.084 ok	1.091	1.031-1.151
Toluene	7.19	4.49	1.601 ok	1.600	1.540-1.660
Trichloroethylene	5.07	4.49	1.129 ok	1.127	1.067-1.187
Trichlorofluoromethane	2.16	3.23	0.669 ok	0.669	0.609-0.729
Vinyl chloride	1.77	3.23	0.548 ok	0.548	0.488-0.608
Vinyl Acetate	2.86	3.23	0.885 ok	0.887	0.827-0.947
m,p-Xylene	11.43	10.04	1.138 ok	1.138	1.078-1.198
o-Xylene	12.36	10.04	1.231 ok	1.231	1.171-1.291
TVHC As Equiv Pentane	2.27	10.04	0.226 ok	0.226	0.166-0.286

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.23 ok	3.23	2.90-3.56	128392 ok	131593	78956-184230
1,4-Difluorobenzene	4.49 ok	4.49	4.16-4.82	638040 ok	662398	397439-927357
Chlorobenzene-D5	10.04 ok	10.03	9.70-10.36	608914 ok	618891	371335-866447

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
Acetone (2-Propanone)	2.10	3.23	0.650 ok	0.652	0.592-0.712
Acrolein	2.06	3.23	0.638 ok	0.640	0.580-0.700
Acrylonitrile	2.24	3.23	0.693 ok	0.695	0.635-0.755
Acetonitrile	2.02	3.23	0.625 ok	0.628	0.568-0.688
1,3-Butadiene	1.81	3.23	0.560 ok	0.561	0.501-0.621
Benzene	4.17	3.23	1.291 ok	1.292	1.232-1.352
Bromobenzene	13.74	10.04	1.369 ok	1.368	1.308-1.428
Bromodichloromethane	5.01	4.50	1.113 ok	1.114	1.054-1.174
Bromoform	11.24	10.04	1.120 ok	1.119	1.059-1.179
Bromomethane	1.88	3.23	0.582 ok	0.584	0.524-0.644
Bromoethene	2.03	3.23	0.628 ok	0.629	0.569-0.689
n-Butane	1.82	3.23	0.563 ok	0.565	0.505-0.625
Benzyl Chloride	16.64	10.04	1.657 ok	1.657	1.597-1.717
n-Butylbenzene	17.40	10.04	1.733 ok	1.734	1.674-1.794
sec-Butylbenzene	16.85	10.04	1.678 ok	1.678	1.618-1.738
tert-Butylbenzene	16.54	10.04	1.647 ok	1.647	1.587-1.707
Carbon disulfide	2.49	3.23	0.771 ok	0.772	0.712-0.832
Chlorobenzene	10.12	10.04	1.008 ok	1.007	0.947-1.067
Chlorodifluoromethane	1.64	3.23	0.508 ok	0.508	0.448-0.568
Chloroethane	1.93	3.23	0.598 ok	0.598	0.538-0.658
Chlorotrifluoroethene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Chloroform	3.30	3.23	1.022 ok	1.022	0.962-1.082
Chloromethane	1.71	3.23	0.529 ok	0.530	0.470-0.590
3-Chloropropene	2.44	3.23	0.755 ok	0.756	0.696-0.816
2-Chlorotoluene	14.87	10.04	1.481 ok	1.480	1.420-1.540
Carbon tetrachloride	4.28	3.23	1.325 ok	1.326	1.266-1.386
Cyclohexane	4.38	4.50	0.973 ok	0.974	0.914-1.034
1,1-Dichloroethane	2.80	3.23	0.867 ok	0.865	0.805-0.925
1,1-Dichloroethylene	2.36	3.23	0.731 ok	0.731	0.671-0.791
1,2-Dibromoethane (EDB)	8.07	4.50	1.793 ok	1.794	1.734-1.854
1,2-Dichloroethane	3.71	3.23	1.149 ok	1.147	1.087-1.207
1,2-Dichloropropane	4.84	4.50	1.076 ok	1.075	1.015-1.135
1,3-Dichloropropane	7.26	4.50	1.613 ok	1.613	1.553-1.673
1,4-Dioxane	5.07	4.50	1.127 ok	1.142	1.082-1.202
Dichlorodifluoromethane	1.67	3.23	0.517 ok	0.517	0.457-0.577
Dichlorofluoromethane	1.96	3.23	0.607 ok	0.607	0.547-0.667
Dibromochloromethane	7.72	4.50	1.716 ok	1.718	1.658-1.778
Dibromomethane	4.80	4.50	1.067 ok	1.066	1.006-1.126
trans-1,2-Dichloroethylene	2.72	3.23	0.842 ok	0.843	0.783-0.903

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
cis-1,2-Dichloroethylene	3.15	3.23	0.975 ok	0.976	0.916-1.036
cis-1,3-Dichloropropene	6.00	4.50	1.333 ok	1.333	1.273-1.393
m-Dichlorobenzene	16.61	10.04	1.654 ok	1.655	1.595-1.715
o-Dichlorobenzene	17.02	10.04	1.695 ok	1.695	1.635-1.755
p-Dichlorobenzene	16.70	10.04	1.663 ok	1.663	1.603-1.723
trans-1,3-Dichloropropene	6.67	4.50	1.482 ok	1.484	1.424-1.544
Di-Isopropyl ether	3.28	3.23	1.015 ok	1.018	0.958-1.078
2,3-Dimethylpentane	4.63	4.50	1.029 ok	1.030	0.970-1.090
2,4-Dimethylpentane	3.79	3.23	1.173 ok	1.173	1.113-1.233
Ethanol	1.96	3.23	0.607 ok	0.609	0.549-0.669
Ethylbenzene	11.00	10.04	1.096 ok	1.095	1.035-1.155
Ethyl Acetate	3.29	3.23	1.019 ok	1.020	0.960-1.080
Ethyl Acrylate	4.95	4.50	1.100 ok	1.104	1.044-1.164
4-Ethyltoluene	15.66	10.04	1.560 ok	1.559	1.499-1.619
Freon 113	2.49	3.23	0.771 ok	0.772	0.712-0.832
Freon 114	1.74	3.23	0.539 ok	0.539	0.479-0.599
Freon 115	1.60	3.23	0.495 ok	0.496	0.436-0.556
Freon 123	2.07	3.23	0.641 ok	0.642	0.582-0.702
Freon 123A	2.09	3.23	0.647 ok	0.648	0.588-0.708
Freon 142B	1.71	3.23	0.529 ok	0.528	0.468-0.588
Freon 152A	1.63	3.23	0.505 ok	0.504	0.444-0.564
Heptane	5.47	4.50	1.216 ok	1.217	1.157-1.277
Hexachlorobutadiene	18.64	10.04	1.857 ok	1.857	1.797-1.917
Hexachloroethane	17.58	10.04	1.751 ok	1.751	1.691-1.811
Hexane	3.28	3.23	1.015 ok	1.015	0.955-1.075
2-Hexanone	7.77	4.50	1.727 ok	1.734	1.674-1.794
Iodomethane	2.33	3.23	0.721 ok	0.722	0.662-0.782
Isopropylbenzene	13.88	10.04	1.382 ok	1.381	1.321-1.441
Isopropyl Alcohol	2.17	3.23	0.672 ok	0.676	0.616-0.736
p-Isopropyltoluene	17.04	10.04	1.697 ok	1.697	1.637-1.757
Methylene chloride	2.40	3.23	0.743 ok	0.743	0.683-0.803
Methyl ethyl ketone	2.96	3.23	0.916 ok	0.919	0.859-0.979
Methyl Isobutyl Ketone	6.10	4.50	1.356 ok	1.361	1.301-1.421
Methyl Tert Butyl Ether	2.82	3.23	0.873 ok	0.876	0.816-0.936
Methylmethacrylate	5.37	4.50	1.193 ok	1.196	1.136-1.256
Naphthalene	18.38	10.04	1.831 ok	1.831	1.771-1.891
Nonane	13.49	10.04	1.344 ok	1.343	1.283-1.403
Octane	9.07	4.50	2.016 ok	2.017	1.957-2.077
Pentane	2.27	3.23	0.703 ok	0.703	0.643-0.763

Initial Calibration Retention Time/Internal Standard Area Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample Number	Lab File ID	Injected	By	Level	Inst ID	Method
V7W405-IC405	7W11233.D	12/28/24 09:16	BK	0.04	GCMS7W	TO-15
V7W405-IC405	7W11234.D	12/28/24 09:53	BK	0.10	GCMS7W	TO-15
V7W405-IC405	7W11235.D	12/28/24 10:32	BK	0.20	GCMS7W	TO-15
V7W405-IC405	7W11237.D	12/28/24 11:51	BK	0.50	GCMS7W	TO-15
V7W405-IC405	7W11238.D	12/28/24 12:34	BK	5	GCMS7W	TO-15
V7W405-ICC405	7W11240.D	12/28/24 13:47	BK	10	GCMS7W	TO-15
V7W405-IC405	7W11241.D	12/28/24 14:25	BK	20	GCMS7W	TO-15
V7W405-IC405	7W11242.D	12/28/24 15:08	BK	40	GCMS7W	TO-15
V7W405-IC405	7W11243.D	12/28/24 15:52	BK	50	GCMS7W	TO-15

Reporting this level

Target Compound	RT (min.)	Istd RT (min.)	Rel RT	Mean Rel RT	Rel RT Range (+ /- .06)
n-Propylbenzene	15.21	10.04	1.515 ok	1.515	1.455-1.575
Propylene	1.65	3.23	0.511 ok	0.511	0.451-0.571
Styrene	12.15	10.04	1.210 ok	1.210	1.150-1.270
1,1,1-Trichloroethane	3.87	3.23	1.198 ok	1.198	1.138-1.258
1,1,1,2-Tetrachloroethane	10.14	10.04	1.010 ok	1.009	0.949-1.069
1,1,2,2-Tetrachloroethane	12.38	10.04	1.233 ok	1.232	1.172-1.292
1,1,2-Trichloroethane	6.83	4.50	1.518 ok	1.519	1.459-1.579
1,2,4-Trichlorobenzene	18.33	10.04	1.826 ok	1.826	1.766-1.886
1,2,3-Trichloropropane	12.66	10.04	1.261 ok	1.260	1.200-1.320
1,2,3-Trimethylbenzene	16.97	10.04	1.690 ok	1.690	1.630-1.750
1,2,4-Trimethylbenzene	16.55	10.04	1.648 ok	1.648	1.588-1.708
1,3,5-Trimethylbenzene	15.93	10.04	1.587 ok	1.586	1.526-1.646
2,2,4-Trimethylpentane	5.16	4.50	1.147 ok	1.148	1.088-1.208
Tertiary Butyl Alcohol	2.37	3.23	0.734 ok	0.740	0.680-0.800
Tetrachloroethylene	8.92	4.50	1.982 ok	1.982	1.922-2.042
Tetrahydrofuran	3.50	3.23	1.084 ok	1.091	1.031-1.151
Toluene	7.20	4.50	1.600 ok	1.600	1.540-1.660
Trichloroethylene	5.07	4.50	1.127 ok	1.127	1.067-1.187
Trichlorofluoromethane	2.16	3.23	0.669 ok	0.669	0.609-0.729
Vinyl chloride	1.77	3.23	0.548 ok	0.548	0.488-0.608
Vinyl Acetate	2.86	3.23	0.885 ok	0.887	0.827-0.947
m,p-Xylene	11.43	10.04	1.138 ok	1.138	1.078-1.198
o-Xylene	12.36	10.04	1.231 ok	1.231	1.171-1.291
TVHC As Equiv Pentane	2.27	10.04	0.226 ok	0.226	0.166-0.286

Internal Standard	RT (min.)	Mean RT(min.)	RT Range (+ /- 0.33)	Area	Mean Area	Area Range (+ /- 40 %)
Bromochloromethane	3.23 ok	3.23	2.90-3.56	131520 ok	131593	78956-184230
1,4-Difluorobenzene	4.50 ok	4.49	4.16-4.82	651140 ok	662398	397439-927357
Chlorobenzene-D5	10.04 ok	10.03	9.70-10.36	631688 ok	618891	371335-866447

Surrogate Recovery Summary

Page 1 of 2

Job Number: JE5976

Account: EAENYS EA Engineering

Project: Sulphur Springs Road, Binghamton, NY

Method: TO-15

Matrix: AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
JE5976-1	5W57167.D	105
JE5976-2	7W13227.D	94
JE5976-3	5W57180.D	104
JE5976-4	7W13238.D	94
JE5976-5	5W57194.D	102
JE5976-5	5W57182.D	105
JE5976-6	5W57239.D	104
JE5976-6	5W57183.D	106
JE5976-7	7W13239.D	98
JE5976-8	5W57184.D	105
JE5976-9	7W13240.D	94
JE5976-10	7W13241.D	93
JE5976-11	5W57185.D	104
JE5976-12	5W57186.D	104
JE5976-13	7W13242.D	93
JE5976-14	7W13243.D	98
JE5976-15	5W57187.D	104
JE5791-3DUP	5W57230.D	104
JE5976-1DUP	5W57169.D	107
JE5976-2DUP	7W13228.D	95
JE5976-3DUP	5W57181.D	105
V5W2165-SCC	5W56533.D	116
V5W2193-BS	5W57163.D	98
V5W2193-BSD	5W57164.D	98
V5W2193-MB	5W57166.D	104
V5W2194-BS	5W57176.D	97
V5W2194-BSD	5W57177.D	98
V5W2194-MB	5W57179.D	103
V5W2196-BS	5W57223.D	98
V5W2196-BSD	5W57224.D	98
V5W2196-MB	5W57226.D	102
V7W425-SCC	7W11904.D	98
V7W437-SCC	7W12295.D	96
V7W465-BS	7W13220.D	101
V7W465-BSD	7W13221.D	100
V7W465-MB	7W13223.D	86
V5W2165-BS	5W56524.D	112
V5W2165-BSD	5W56525.D	111
V5W2165-MB	5W56528.D	115
V7W425-BS	7W11899.D	107

6.8.1

6

Surrogate Recovery Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Method: TO-15	Matrix: AIR

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1
V7W425-BSD	7W11900.D	107
V7W425-MB	7W11902.D	99
V7W437-BS	7W12290.D	107
V7W437-BSD	7W12291.D	107
V7W437-MB	7W12293.D	101

Surrogate Compounds	Recovery Limits
S1 = 4-Bromofluorobenzene	65-128%

Initial Calibration Summary

Page 1 of 4

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2144-ICC2144
Lab FileID: 5W56002.D

Response Factor Report GCMS5W

Method : C:\msdchem\1\methods\M5w2144.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

Calibration Files

0.04=5w55994.D 0.1 =5w55995.D 0.2 =5w55996.D 0.5 =5w56013.D
5 =5w56001.D 10 =5w56002.D 20 =5w56003.D 40 =5w56004.D
50 =5w56005.D =

Compound	0.04	0.1	0.2	0.5	5	10	20	40	50	Avg	%RSD
1) I BROMOCHLOROMETHANE	-----ISTD-----										
2) FREON 115										0.000	-1.00
3) FREON 152A											
	0.977	0.787	0.670	0.625	0.668	0.660	0.668	0.662	0.657	0.708	15.57
4) CHLORODIFLUOROMETHANE											
	0.238	0.334	0.322	0.311	0.335	0.337	0.340	0.341	0.340	0.322	10.26
5) CHLOROTRIFLUOROETHENE											
	1.580	1.575	1.612	1.516	1.684	1.682	1.723	1.697	1.692	1.640	4.34
6) DICHLORODIFLUOROMETHANE											
	3.163	3.254	3.326	3.153	3.357	3.302	3.232	3.015	2.854	3.184	5.09
7) PROPYLENE											
	0.956	0.805	0.746	0.796	0.801	0.794	0.765	0.747		0.801	8.36
8) 1-CHLORO-1,1-DIFLUOROETHANE											
	3.576	3.452	3.526	3.321	3.461	3.344	3.143	2.765	2.545	3.237	11.05
9) FREON 114											
	4.396	4.557	4.599	4.436	4.572	4.312	3.985	3.389	3.065	4.146	13.48
10) CHLOROMETHANE											
	0.532	0.498	0.493	0.428	0.447	0.433	0.403	0.356	0.335	0.436	15.01
11) VINYL CHLORIDE											
	1.572	1.668	1.645	1.558	1.589	1.505	1.389	1.218	1.132	1.475	12.84
12) 1,3-BUTADIENE											
	1.234	1.132	1.077	0.975	1.020	0.981	0.906	0.807	0.755	0.987	15.37
13) n-BUTANE											
	2.771	2.383	2.498	2.095	2.079	1.960	1.805	1.562	1.452	2.067	20.92
14) BROMOMETHANE											
	1.889	1.805	1.717	1.602	1.657	1.569	1.472	1.325	1.239	1.586	13.45
15) CHLOROETHANE											
	0.810	0.779	0.741	0.702	0.680	0.638	0.600	0.541	0.507	0.667	15.62
16) DICHLOROFLUOROMETHANE											
	3.592	3.779	3.651	3.414	3.396	3.223	2.981	2.620	2.414	3.230	14.57
17) ACETONITRILE											
	1.364	1.664	1.246	1.237	1.166	1.087	0.960	0.882		1.201	20.35
18) ACROLEIN											
		0.690	0.625	0.539	0.521	0.491	0.440	0.410		0.531	18.66
19) FREON 123											
	3.961	3.873	3.863	3.681	3.730	3.507	3.270	2.875	2.643	3.489	13.39
20) FREON 123A											
	2.115	2.206	2.146	2.081	2.097	1.986	1.863	1.666	1.552	1.968	11.57
21) TRICHLOROFLUOROMETHANE											
	4.223	4.253	3.302	4.128	3.611	3.416	3.198	2.721	2.695	3.505	17.14
22) ISOPROPYL ALCOHOL											
		2.754	2.207	1.839	1.735	1.659	1.432	1.340		1.852	26.34
23) ACETONE											

Initial Calibration Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2144-ICC2144
Lab FileID: 5W56002.D

		0.948	0.680	0.608	0.555	0.514	0.448	0.416	0.596	30.21
24)	PENTANE									
	1.138	1.064	0.992	0.901	0.931	0.901	0.864	0.832	0.807	11.67
25)	IODOMETHANE									
	2.657	2.712	2.701	2.722	2.875	2.851	2.829	2.779	2.741	2.70
26)	1,1-DICHLOROETHYLENE									
	1.065	0.968	0.946	0.906	0.928	0.909	0.883	0.850	0.831	7.55
27)	CARBON DISULFIDE									
	2.450	2.649	2.788	2.645	2.770	2.640	2.539	2.402	2.314	6.33
28)	ETHANOL									
			1.054	0.787	0.739	0.669	0.553	0.513	0.719	27.07
29)	BROMOETHENE									
	1.684	1.596	1.582	1.563	1.563	1.519	1.450	1.320	1.242	9.40
30)	ACRYLONITRILE									
	0.541	0.665	0.740	0.506	0.546	0.526	0.519	0.498	0.488	15.33
31)	METHYLENE CHLORIDE									
	1.155	0.991	0.974	0.931	0.897	0.854	0.825	0.778	0.748	13.81
32)	3-CHLOROPROPENE									
	0.288	0.370	0.429	0.400	0.437	0.431	0.422	0.404	0.389	11.65
33)	FREON 113									
	1.689	1.727	1.781	1.702	1.715	1.691	1.686	1.698	1.707	1.72
34)	TRANS-1,2-DICHLOROETHYLENE									
	0.954	0.971	1.007	0.951	0.982	0.975	0.962	0.949	0.941	2.11
35)	TERTIARY BUTYL ALCOHOL									
	1.434	1.519	1.548	1.588	1.695	1.669	1.645	1.527	1.412	6.36
36)	METHYL TERTIARY BUTYL ETHER									
	2.016	2.086	2.189	2.200	2.485	2.479	2.472	2.389	2.331	7.76
37)	TETRAHYDROFURAN									
	0.219	0.278	0.335	0.421	0.426	0.425	0.409	0.401	0.364	21.63
38)	HEXANE									
	1.169	1.134	1.164	1.192	1.350	1.360	1.421	1.486	1.454	10.64
39)	VINYL ACETATE									
		0.050	0.095	0.165	0.174	0.186	0.182	0.179	0.147	36.06
40)	1,1-DICHLOROETHANE									
	1.687	1.610	1.702	1.661	1.740	1.670	1.647	1.576	1.536	3.88
41)	METHYL ETHYL KETONE									
	0.220	0.293	0.336	0.420	0.432	0.430	0.414	0.405	0.369	21.16
42)	cis-1,2-DICHLOROETHYLENE									
	1.362	0.963	1.020	0.995	1.031	1.024	1.034	1.016	1.004	11.35
43)	DIISOPROPYL ETHER									
	0.290	0.335	0.355	0.407	0.411	0.428	0.449	0.442	0.390	14.52
44)	ETHYL ACETATE									
		0.197	0.245	0.303	0.307	0.304	0.301	0.292	0.278	15.07
45)	METHYL ACRYLATE									
		1.082	1.239	1.690	1.694	1.734	1.743	1.687	1.553	17.55
46)	CHLOROFORM									
	2.326	2.338	2.340	2.187	2.283	2.208	2.133	2.023	1.965	6.28
47)	2,4-DIMETHYLPENTANE									
	1.237	1.183	1.241	1.320	1.534	1.555	1.551	1.519	1.496	11.07
48)	1,1,1-TRICHLOROETHANE									
	2.131	2.291	2.342	2.223	2.346	2.312	2.320	2.286	2.257	2.99
49)	CARBON TETRACHLORIDE									
	2.320	2.445	2.497	2.385	2.605	2.596	2.619	2.595	2.562	4.31
50)	1,2-DICHLOROETHANE									
	1.108	1.296	1.393	1.321	1.419	1.394	1.403	1.378	1.365	7.17
51)	I 1,4-DIFLUOROBENZENE	-----ISTD-----								
52)	BENZENE									
	0.590	0.631	0.613	0.596	0.647	0.654	0.680	0.698	0.704	6.53
53)	CYCLOHEXANE									

Initial Calibration Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2144-ICC2144
Lab FileID: 5W56002.D

		0.233	0.221	0.212	0.230	0.262	0.268	0.276	0.281	0.285	0.252	11.13
54)	2,3-DIMETHYLPENTANE											
		0.094	0.114	0.125	0.116	0.134	0.137	0.142	0.150	0.154	0.129	14.76
55)	TRICHLOROETHYLENE											
		0.326	0.308	0.306	0.323	0.337	0.337	0.360	0.397	0.407	0.345	10.59
56)	1,2-DICHLOROPROPANE											
		0.256	0.251	0.244	0.243	0.254	0.257	0.265	0.282	0.284	0.260	5.71
57)	DIBROMOMETHANE											
		0.390	0.352	0.354	0.317	0.337	0.347	0.375	0.422	0.445	0.371	11.13
58)	ETHYL ACRYLATE											
			0.272	0.306	0.451	0.470	0.487	0.497	0.496		0.426	22.41
59)	BROMODICHLOROMETHANE											
		0.571	0.566	0.588	0.559	0.605	0.609	0.633	0.670	0.683	0.609	7.35
60)	2,2,4-TRIMETHYLPENTANE											
		0.797	0.829	0.804	0.868	0.997	0.992	1.007	1.038	1.023	0.928	10.90
61)	1,4-DIOXANE											
		0.104	0.108	0.145	0.163	0.164	0.171	0.181	0.185		0.153	20.48
62)	HEPTANE											
		0.250	0.287	0.298	0.318	0.367	0.368	0.377	0.391	0.393	0.339	15.24
63)	METHYL METHACRYLATE											
		0.123	0.151	0.177	0.224	0.231	0.240	0.242	0.246		0.204	23.20
64)	METHYL ISOBUTYL KETONE											
			0.104	0.127	0.188	0.193	0.202	0.210	0.214		0.177	24.46
65)	cis-1,3-DICHLOROPROPENE											
		0.271	0.312	0.322	0.351	0.423	0.442	0.469	0.499	0.510	0.400	21.92
66)	TOLUENE											
		0.377	0.370	0.379	0.414	0.487	0.502	0.532	0.563	0.576	0.467	17.76
67)	1,3-DICHLOROPROPANE											
		0.286	0.341	0.358	0.378	0.419	0.419	0.429	0.435	0.440	0.390	13.48
68)	trans-1,3-DICHLOROPROPENE											
		0.289	0.285	0.303	0.393	0.415	0.447	0.474	0.486		0.387	21.61
69)	1,1,2-TRICHLOROETHANE											
		0.200	0.267	0.262	0.253	0.276	0.283	0.295	0.311	0.318	0.274	12.81
70)	I CHLOROBENZENE-D5	-----ISTD-----										
71)	2-HEXANONE											
		0.204	0.385	0.542	0.545	0.527	0.475	0.457		0.448		27.18
72)	ETHYL METHACRYLATE											
		0.443	0.569	0.819	0.809	0.771	0.687	0.655		0.679		20.27
73)	TETRACHLOROETHYLENE											
		0.708	0.734	0.726	0.730	0.734	0.720	0.701	0.653	0.640	0.705	4.98
74)	DIBROMOCHLOROMETHANE											
		1.062	1.206	1.262	1.232	1.378	1.356	1.308	1.184	1.134	1.236	8.33
75)	1,2-DIBROMOETHANE											
		0.805	0.873	0.931	0.953	1.033	1.008	0.963	0.869	0.842	0.920	8.39
76)	OCTANE											
		0.743	0.734	0.766	0.854	1.046	1.024	0.989	0.893	0.841	0.877	13.72
77)	1,1,1,2-TETRACHLOROETHANE											
		0.793	0.818	0.820	0.825	0.874	0.859	0.866	0.829	0.805	0.832	3.36
78)	CHLOROBENZENE											
		1.358	1.433	1.499	1.416	1.448	1.406	1.369	1.256	1.199	1.376	6.89
79)	ETHYLBENZENE											
		1.562	1.692	1.684	1.813	2.113	2.097	2.006	1.764	1.659	1.821	11.11
80)	m,p-XYLENE											
		0.554	0.598	0.643	0.738	0.871	0.853	0.822	0.756	0.733	0.730	15.35
81)	o-XYLENE											
		0.500	0.561	0.606	0.722	0.846	0.828	0.816	0.771	0.738	0.710	17.63
82)	STYRENE											
		0.719	0.769	0.890	1.253	1.258	1.222	1.100	1.066		1.035	20.94
83)	NONANE											

Initial Calibration Summary

Page 4 of 4

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2144-ICC2144
Lab FileID: 5W56002.D

		0.699	0.724	0.785	0.906	1.124	1.084	1.027	0.912	0.858	0.902	16.93
84)	BROMOFORM	1.027	1.057	1.156	1.208	1.364	1.353	1.315	1.218	1.176	1.208	9.98
85)	4-BROMOFLUOROBENZENE	1.274	1.279	1.295	1.292	1.273	1.211	1.104	0.958	0.916	1.178	12.68
86)	1,1,2,2-TETRACHLOROETHANE	1.204	1.402	1.411	1.418	1.491	1.435	1.391	1.267	1.175	1.355	8.18
87)	1,2,3-TRICHLOROPROPANE	0.913	0.995	1.000	1.022	1.025	0.967	0.896	0.788	0.755	0.929	10.79
88)	ISOPROPYLBENZENE	1.933	2.029	2.044	2.220	2.515	2.466	2.348	2.065	1.936	2.173	10.26
89)	BROMOBENZENE	1.022	1.172	1.154	1.166	1.238	1.188	1.121	1.007	0.963	1.115	8.48
90)	2-CHLOROTOLUENE	0.496	0.513	0.576	0.690	0.676	0.655	0.602	0.594	0.600	11.93	
91)	n-PROPYLBENZENE	0.448	0.447	0.481	0.588	0.713	0.692	0.658	0.599	0.582	0.579	17.48
92)	4-ETHYLTOLUENE	1.603	1.702	2.003	2.544	2.437	2.321	2.003	1.853	2.058	16.74	
93)	1,3,5-TRIMETHYLBENZENE	1.268	1.397	1.511	1.791	2.084	2.012	1.915	1.686	1.572	1.693	16.57
94)	ALPHA-METHYLSTYRENE	0.607	0.636	0.818	1.106	1.098	1.065	0.976	0.947	0.907	22.01	
95)	tert-BUTYLBENZENE	0.296	0.309	0.377	0.473	0.474	0.483	0.463	0.446	0.415	18.56	
96)	1,2,4-TRIMETHYLBENZENE	1.362	1.466	1.875	2.218	2.169	2.131	1.853	1.673	1.843	17.55	
97)	m-DICHLOROBENZENE	1.403	1.370	1.449	1.615	1.722	1.681	1.653	1.492	1.400	1.532	8.90
98)	BENZYL CHLORIDE	1.410	1.571	2.053	2.060	2.049	1.825	1.654	1.803	14.67		
99)	p-DICHLOROBENZENE	1.326	1.405	1.392	1.590	1.647	1.554	1.482	1.319	1.245	1.440	9.49
100)	sec-BUTYLBENZENE	0.381	0.418	0.492	0.593	0.567	0.541	0.498	0.481	0.496	14.41	
101)	1,2,3-TRIMETHYLBENZENE	1.312	1.441	1.556	1.930	2.235	2.172	2.087	1.870	1.720	1.814	18.12
102)	p-ISOPROPYLTOLUENE	0.412	0.487	0.607	0.691	0.666	0.651	0.612	0.585	0.589	16.06	
103)	o-DICHLOROBENZENE	1.313	1.326	1.389	1.616	1.573	1.493	1.412	1.263	1.200	1.398	10.02
104)	n-BUTYLBENZENE	0.361	0.407	0.524	0.668	0.657	0.647	0.607	0.588	0.557	20.99	
105)	HEXACHLOROETHANE	0.838	0.941	0.934	0.967	1.124	1.100	1.117	1.022	0.941	0.998	9.91
106)	HEXACHLOROBUTADIENE	1.315	1.202	1.218	1.278	1.408	1.431	1.538	1.424	1.306	1.347	8.23
107)	1,2,4-TRICHLOROBENZENE	1.497	1.146	1.068	1.625	1.358	1.308	1.281	1.223	1.180	1.298	13.51
108)	NAPHTHALENE	3.232	2.218	2.169	3.940	3.184	3.078	2.884	2.360	2.102	2.796	22.39
109)	I BROMOCHLOROMETHANE (A -----ISTD-----											
110)	TVHC as equiv Pentane	6.790	5.925	6.087	5.865	5.693	5.390	5.242	5.856	8.68		

(#) = Out of Range ### Number of calibration levels exceeded format ###

M5w2144.M

Thu Jan 09 19:07:44 2025

Initial Calibration Verification

Page 1 of 3

Job Number: JE5976
 Account: EAENYS EA Engineering
 Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2144-ICV2144
 Lab FileID: 5W56014.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w56014.D
 Acq On : 9 Jan 2025 3:42 pm
 Sample : icv2144-10
 Misc : MS88386,V5W2144,,,,,1
 MS Integration Params: RTEINT1.P

Vial: 4
 Operator: thomash
 Inst : GCMS5W
 Multiplr: 1.00

Method : C:\msdchem\1\methods\M5w2144.M (RTE Integrator)
 Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Thu Jan 09 19:02:22 2025
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	98	0.00	7.66
2	FREON 115			-----NA-----			
3	FREON 152A	0.708	0.652	7.9	97	0.00	3.53
4	CHLORODIFLUOROMETHANE	0.322	0.331	-2.8	96	0.00	3.56
5	CHLOROTRIFLUOROETHENE	1.640	1.648	-0.5	96	0.00	3.59
6	DICHLORODIFLUOROMETHANE	3.184	3.248	-2.0	97	0.00	3.64
7	PROPYLENE	0.801	0.777	3.0	95	0.00	3.58
8	1-CHLORO-1,1-DIFLUOROETHA	3.237	3.303	-2.0	97	0.00	3.74
9	FREON 114	4.146	4.305	-3.8	98	0.00	3.83
10	CHLOROMETHANE	0.436	0.426	2.3	97	0.00	3.75
11	VINYL CHLORIDE	1.475	1.488	-0.9	97	0.00	3.91
12	1,3-BUTADIENE	0.987	0.967	2.0	97	0.00	4.01
13	n-BUTANE	2.067	1.974	4.5	99	0.00	4.05
14	BROMOMETHANE	1.586	1.560	1.6	98	0.00	4.21
15	CHLOROETHANE	0.667	0.641	3.9	99	0.00	4.33
16	DICHLOROFLUOROMETHANE	3.230	3.276	-1.4	100	0.00	4.40
17	ACETONITRILE	1.201	1.220	-1.6	103	0.00	4.60
18	ACROLEIN	0.531	0.544	-2.4	102	0.00	4.70
19	FREON 123	3.489	3.421	1.9	96	0.00	4.71
20	FREON 123A	1.968	1.825	7.3	90	0.00	4.76
21	TRICHLOROFLUOROMETHANE	3.505	3.705	-5.7	106	0.00	4.92
22	ISOPROPYL ALCOHOL	1.852	1.809	2.3	102	0.00	5.01
23	ACETONE	0.596	0.564	5.4	100	0.00	4.80
24	PENTANE	0.937	0.897	4.3	98	0.00	5.21
25	IODOMETHANE	2.763	2.800	-1.3	96	0.00	5.40
26	1,1-DICHLOROETHYLENE	0.921	0.907	1.5	98	0.00	5.46
27	CARBON DISULFIDE	2.577	2.803	-8.8	104	0.00	5.83
28	ETHANOL	0.719	0.621	13.6	82	0.00	4.43
29	BROMOETHENE	1.502	1.509	-0.5	97	0.00	4.60
30	ACRYLONITRILE	0.559	0.534	4.5	100	0.00	5.19
31	METHYLENE CHLORIDE	0.906	0.877	3.2	101	0.00	5.57
32	3-CHLOROPROPENE	0.397	0.429	-8.1	98	0.00	5.67
33	FREON 113	1.711	1.724	-0.8	100	0.00	5.80
34	TRANS-1,2-DICHLOROETHYLEN	0.966	0.989	-2.4	100	0.00	6.43
35	TERTIARY BUTYL ALCOHOL	1.560	1.848	-18.5	109	0.00	5.52
36	METHYL TERTIARY BUTYL ETH	2.294	2.476	-7.9	98	0.00	6.69
37	TETRAHYDROFURAN	0.364	0.431	-18.4	99	0.00	8.23
38	HEXANE	1.303	1.338	-2.7	97	0.00	7.69
39	VINYL ACETATE	0.147	0.180	-22.4	102	0.00	6.79
40	1,1-DICHLOROETHANE	1.648	1.660	-0.7	98	0.00	6.63
41	METHYL ETHYL KETONE	0.369	0.427	-15.7	97	0.00	7.04
42	cis-1,2-DICHLOROETHYLENE	1.050	1.019	3.0	98	0.00	7.48

Initial Calibration Verification

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2144-ICV2144
Lab FileID: 5W56014.D

43	DIISOPROPYL ETHER	0.390	0.407	-4.4	97	0.00	7.70
44	ETHYL ACETATE	0.278	0.308	-10.8	98	0.00	7.73
45	METHYL ACRYLATE	1.553	1.716	-10.5	99	0.00	7.72
46	CHLOROFORM	2.200	2.262	-2.8	101	0.00	7.80
47	2,4-DIMETHYLPENTANE	1.404	1.548	-10.3	98	0.00	8.65
48	1,1,1-TRICHLOROETHANE	2.279	2.361	-3.6	100	0.00	8.86
49	CARBON TETRACHLORIDE	2.514	2.577	-2.5	97	0.00	9.55
50	1,2-DICHLOROETHANE	1.342	1.398	-4.2	98	0.00	8.59
51 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	98	0.00	9.82
52	BENZENE	0.646	0.658	-1.9	99	0.00	9.38
53	CYCLOHEXANE	0.252	0.265	-5.2	97	0.00	9.69
54	2,3-DIMETHYLPENTANE	0.129	0.135	-4.7	97	0.00	9.99
55	TRICHLOROETHYLENE	0.345	0.337	2.3	98	0.00	10.64
56	1,2-DICHLOROPROPANE	0.260	0.257	1.2	98	0.00	10.35
57	DIBROMOMETHANE	0.371	0.352	5.1	100	0.00	10.32
58	ETHYL ACRYLATE	0.426	0.475	-11.5	99	0.00	10.40
59	BROMODICHLOROMETHANE	0.609	0.614	-0.8	99	0.00	10.59
60	2,2,4-TRIMETHYLPENTANE	0.928	0.980	-5.6	97	0.00	10.67
61	1,4-DIOXANE	0.153	0.158	-3.3	95	0.00	10.66
62	HEPTANE	0.339	0.363	-7.1	97	0.00	11.02
63	METHYL METHACRYLATE	0.204	0.233	-14.2	99	0.00	10.92
64	METHYL ISOBUTYL KETONE	0.177	0.194	-9.6	99	0.00	11.78
65	cis-1,3-DICHLOROPROPENE	0.400	0.415	-3.7	92	0.00	11.72
66	TOLUENE	0.467	0.500	-7.1	98	0.00	12.95
67	1,3-DICHLOROPROPANE	0.390	0.427	-9.5	100	0.00	13.00
68	trans-1,3-DICHLOROPROPENE	0.387	0.416	-7.5	99	0.00	12.40
69	1,1,2-TRICHLOROETHANE	0.274	0.287	-4.7	100	0.00	12.60
70 I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00	15.34
71	2-HEXANONE	0.448	0.548	-22.3	99	0.00	13.35
72	ETHYL METHACRYLATE	0.679	0.836	-23.1	102	0.00	13.38
73	TETRACHLOROETHYLENE	0.705	0.732	-3.8	100	0.00	14.46
74	DIBROMOCHLOROMETHANE	1.236	1.384	-12.0	100	0.00	13.50
75	1,2-DIBROMOETHANE	0.920	1.021	-11.0	100	0.00	13.82
76	OCTANE	0.877	1.021	-16.4	98	0.00	14.32
77	1,1,1,2-TETRACHLOROETHANE	0.832	0.869	-4.4	100	0.00	15.38
78	CHLOROBENZENE	1.376	1.412	-2.6	99	0.00	15.40
79	ETHYLBENZENE	1.821	2.111	-15.9	99	0.00	15.95
80	m,p-XYLENE	0.730	0.858	-17.5	99	0.00	16.23
81	o-XYLENE	0.710	0.833	-17.3	99	0.00	16.89
82	STYRENE	1.035	1.239	-19.7	97	0.00	16.74
83	NONANE	0.902	1.082	-20.0	98	0.00	17.30
84	BROMOFORM	1.208	1.359	-12.5	99	0.00	16.28
85 S	4-BROMOFLUOROBENZENE	1.178	1.218	-3.4	99	0.00	17.59
86	1,1,2,2-TETRACHLOROETHANE	1.355	1.488	-9.8	102	0.00	16.90
87	1,2,3-TRICHLOROPROPANE	0.929	1.003	-8.0	102	0.00	17.09
88	ISOPROPYLBENZENE	2.173	2.504	-15.2	100	0.00	17.81
89	BROMOBENZENE	1.115	1.234	-10.7	102	0.00	17.90
90	2-CHLOROTOLUENE	0.600	0.703	-17.2	102	0.00	18.54
91	n-PROPYLBENZENE	0.579	0.703	-21.4	100	0.00	18.63
92	4-ETHYLTOLUENE	2.058	2.452	-19.1	99	0.00	18.88
93	1,3,5-TRIMETHYLBENZENE	1.693	2.044	-20.7	100	0.00	19.00
94	ALPHA-METHYLSTYRENE	0.907	1.079	-19.0	97	0.00	19.25
95	tert-BUTYLBENZENE	0.415	0.490	-18.1	102	0.00	19.61
96	1,2,4-TRIMETHYLBENZENE	1.843	2.221	-20.5	101	0.00	19.62
97	m-DICHLOROBENZENE	1.532	1.754	-14.5	103	0.00	19.81
98	BENZYL CHLORIDE	1.803	2.284	-26.7	109	0.00	19.81
99	p-DICHLOROBENZENE	1.440	1.599	-11.0	101	0.00	19.92
100	sec-BUTYLBENZENE	0.496	0.585	-17.9	102	0.00	20.01

Initial Calibration Verification

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2144-ICV2144
Lab FileID: 5W56014.D

101	1,2,3-TRIMETHYLBENZENE	1.814	2.235	-23.2	101	0.00	20.23
102	p-ISOPROPYLTOLUENE	0.589	0.700	-18.8	103	0.00	20.26
103	o-DICHLOROBENZENE	1.398	1.543	-10.4	102	0.00	20.40
104	n-BUTYLBENZENE	0.557	0.673	-20.8	101	0.00	20.85
105	HEXACHLOROETHANE	0.998	1.043	-4.5	93	0.00	21.31
106	HEXACHLOROBUTADIENE	1.347	1.507	-11.9	104	-0.02	23.35
107	1,2,4-TRICHLOROBENZENE	1.298	1.409	-8.6	106	-0.01	23.21
108	NAPHTHALENE	2.796	3.506	-25.4	112	-0.02	22.87
109 I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	98	0.00	7.66
110	TVHC as equiv Pentane	5.856	5.722	2.3	96	0.00	5.21

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w56002.D M5w2144.M Thu Jan 09 19:07:14 2025

6.9.2
6

Continuing Calibration Summary

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Job Number: JE5976
 Account: EAENYS EA Engineering
 Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2165-CC2144
 Lab FileID: 5W56523.D

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\m...025\V5W2165\5w56523.D Vial: 2
 Acq On : 30 Jan 2025 12:42 pm Operator: thomash
 Sample : cc2144-10 Inst : GCMS5W
 Misc : MS89211,V5W2165,,,,,1 Multiplr: 1.00
 MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2144.M (RTE Integrator)
 Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Thu Jan 09 19:02:22 2025
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	100	0.00	7.64
2	FREON 115			-----NA-----			
3	FREON 152A	0.708	0.648	8.5	98	0.00	3.53
4	CHLORODIFLUOROMETHANE	0.322	0.333	-3.4	99	0.00	3.56
5	CHLOROTRIFLUOROETHENE	1.640	1.797	-9.6	107	0.00	3.59
6	DICHLORODIFLUOROMETHANE	3.184	3.376	-6.0	102	0.00	3.63
7	PROPYLENE	0.801	0.915	-14.2	114	0.00	3.58
8	1-CHLORO-1,1-DIFLUOROETHA	3.237	3.053	5.7	91	0.00	3.74
9	FREON 114	4.146	3.689	11.0	85	0.00	3.82
10	CHLOROMETHANE	0.436	0.400	8.3	92	0.00	3.75
11	VINYL CHLORIDE	1.475	1.272	13.8	84	0.00	3.91
12	1,3-BUTADIENE	0.987	0.890	9.8	91	0.00	4.00
13	n-BUTANE	2.067	1.910	7.6	97	0.00	4.04
14	BROMOMETHANE	1.586	1.291	18.6	82	0.00	4.21
15	CHLOROETHANE	0.667	0.538	19.3	84	0.00	4.33
16	DICHLOROFLUOROMETHANE	3.230	2.831	12.4	88	0.00	4.40
17	ACETONITRILE	1.201	1.158	3.6	99	0.00	4.59
18	ACROLEIN	0.531	0.453	14.7	87	0.00	4.69
19	FREON 123	3.489	2.763	20.8	79	0.00	4.71
20	FREON 123A	1.968	1.743	11.4	88	0.00	4.75
21	TRICHLOROFLUOROMETHANE	3.505	3.840	-9.6	112	0.00	4.92
22	ISOPROPYL ALCOHOL	1.852	2.355	-27.2	136	0.00	5.00
23	ACETONE	0.596	0.499	16.3	90	0.00	4.79
24	PENTANE	0.937	1.017	-8.5	113	0.00	5.20
25	IODOMETHANE	2.763	3.236	-17.1	113	0.00	5.39
26	1,1-DICHLOROETHYLENE	0.921	0.919	0.2	101	0.00	5.45
27	CARBON DISULFIDE	2.577	2.528	1.9	96	0.00	5.83
28	ETHANOL	0.719	0.702	2.4	95	0.00	4.43
29	BROMOETHENE	1.502	1.271	15.4	84	0.00	4.59
30	ACRYLONITRILE	0.559	0.567	-1.4	108	0.00	5.18
31	METHYLENE CHLORIDE	0.906	0.823	9.2	96	0.00	5.56
32	3-CHLOROPROPENE	0.397	0.409	-3.0	95	0.00	5.67
33	FREON 113	1.711	1.881	-9.9	111	0.00	5.79
34	TRANS-1,2-DICHLOROETHYLEN	0.966	0.975	-0.9	100	0.00	6.43
35	TERTIARY BUTYL ALCOHOL	1.560	1.764	-13.1	106	0.00	5.52
36	METHYL TERTIARY BUTYL ETH	2.294	2.266	1.2	91	0.00	6.68
37	TETRAHYDROFURAN	0.364	0.393	-8.0	92	0.00	8.21
38	HEXANE	1.303	1.384	-6.2	102	0.00	7.68
39	VINYL ACETATE	0.147	0.170	-15.6	97	0.00	6.78
40	1,1-DICHLOROETHANE	1.648	1.669	-1.3	100	0.00	6.62
41	METHYL ETHYL KETONE	0.369	0.389	-5.4	90	0.00	7.03
42	cis-1,2-DICHLOROETHYLENE	1.050	1.028	2.1	100	0.00	7.47

Continuing Calibration Summary

Page 2 of 3

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2165-CC2144
Lab FileID: 5W56523.D

43	DIISOPROPYL ETHER	0.390	0.418	-7.2	102	0.00	7.69
44	ETHYL ACETATE	0.278	0.293	-5.4	95	0.00	7.72
45	METHYL ACRYLATE	1.553	1.757	-13.1	104	0.00	7.71
46	CHLOROFORM	2.200	2.149	2.3	97	0.00	7.79
47	2,4-DIMETHYLPENTANE	1.404	1.569	-11.8	101	0.00	8.64
48	1,1,1-TRICHLOROETHANE	2.279	2.362	-3.6	102	0.00	8.86
49	CARBON TETRACHLORIDE	2.514	2.824	-12.3	109	0.00	9.55
50	1,2-DICHLOROETHANE	1.342	1.441	-7.4	103	0.00	8.58
51 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	100	0.00	9.82
52	BENZENE	0.646	0.605	6.3	92	0.00	9.38
53	CYCLOHEXANE	0.252	0.245	2.8	91	0.00	9.68
54	2,3-DIMETHYLPENTANE	0.129	0.123	4.7	89	0.00	9.98
55	TRICHLOROETHYLENE	0.345	0.347	-0.6	103	0.00	10.63
56	1,2-DICHLOROPROPANE	0.260	0.255	1.9	99	0.00	10.34
57	DIBROMOMETHANE	0.371	0.393	-5.9	113	0.00	10.32
58	ETHYL ACRYLATE	0.426	0.489	-14.8	104	0.00	10.39
59	BROMODICHLOROMETHANE	0.609	0.599	1.6	98	0.00	10.59
60	2,2,4-TRIMETHYLPENTANE	0.928	1.030	-11.0	104	0.00	10.67
61	1,4-DIOXANE	0.153	0.162	-5.9	98	0.00	10.65
62	HEPTANE	0.339	0.413	-21.8	112	0.00	11.01
63	METHYL METHACRYLATE	0.204	0.216	-5.9	94	0.00	10.92
64	METHYL ISOBUTYL KETONE	0.177	0.200	-13.0	103	0.00	11.77
65	cis-1,3-DICHLOROPROPENE	0.400	0.424	-6.0	96	0.00	11.71
66	TOLUENE	0.467	0.490	-4.9	97	0.00	12.95
67	1,3-DICHLOROPROPANE	0.390	0.398	-2.1	95	0.00	12.99
68	trans-1,3-DICHLOROPROPENE	0.387	0.408	-5.4	98	0.00	12.39
69	1,1,2-TRICHLOROETHANE	0.274	0.270	1.5	95	0.00	12.59
70 I	CHLOROBENZENE-D5	1.000	1.000	0.0	97	0.00	15.33
71	2-HEXANONE	0.448	0.584	-30.4#	104	0.00	13.34
72	ETHYL METHACRYLATE	0.679	0.780	-14.9	94	-0.01	13.37
73	TETRACHLOROETHYLENE	0.705	0.853	-21.0	115	0.00	14.45
74	DIBROMOCHLOROMETHANE	1.236	1.522	-23.1	109	0.00	13.49
75	1,2-DIBROMOETHANE	0.920	1.086	-18.0	105	0.00	13.81
76	OCTANE	0.877	1.191	-35.8#	113	0.00	14.31
77	1,1,1,2-TETRACHLOROETHANE	0.832	0.956	-14.9	108	0.00	15.38
78	CHLOROBENZENE	1.376	1.523	-10.7	105	0.00	15.40
79	ETHYLBENZENE	1.821	2.154	-18.3	100	0.00	15.95
80	m,p-XYLENE	0.730	0.910	-24.7	104	0.00	16.22
81	o-XYLENE	0.710	0.900	-26.8	106	0.00	16.89
82	STYRENE	1.035	1.307	-26.3	101	0.00	16.74
83	NONANE	0.902	1.301	-44.2#	117	0.00	17.30
84	BROMOFORM	1.208	1.692	-40.1#	122	0.00	16.28
85 S	4-BROMOFLUOROBENZENE	1.178	1.318	-11.9	106	0.00	17.58
86	1,1,2,2-TETRACHLOROETHANE	1.355	1.487	-9.7	101	0.00	16.89
87	1,2,3-TRICHLOROPROPANE	0.929	1.010	-8.7	102	0.00	17.08
88	ISOPROPYLBENZENE	2.173	2.659	-22.4	105	0.00	17.80
89	BROMOBENZENE	1.115	1.181	-5.9	97	0.00	17.90
90	2-CHLOROTOLUENE	0.600	0.756	-26.0	109	0.00	18.53
91	n-PROPYLBENZENE	0.579	0.753	-30.1#	106	0.00	18.63
92	4-ETHYLTOLUENE	2.058	2.641	-28.3	105	0.00	18.87
93	1,3,5-TRIMETHYLBENZENE	1.693	2.201	-30.0#	106	0.00	19.00
94	ALPHA-METHYLSTYRENE	0.907	1.210	-33.4#	107	0.00	19.24
95	tert-BUTYLBENZENE	0.415	0.522	-25.8	107	0.00	19.60
96	1,2,4-TRIMETHYLBENZENE	1.843	2.364	-28.3	106	0.00	19.62
97	m-DICHLOROBENZENE	1.532	1.976	-29.0	114	0.00	19.81
98	BENZYL CHLORIDE	1.803	2.235	-24.0	106	0.00	19.80
99	p-DICHLOROBENZENE	1.440	1.853	-28.7	116	0.00	19.91
100	sec-BUTYLBENZENE	0.496	0.639	-28.8	110	0.00	20.01

Continuing Calibration Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2165-CC2144
Lab FileID: 5W56523.D

101	1,2,3-TRIMETHYLBENZENE	1.814	2.403	-32.5#	108	0.00	20.23
102	p-ISOPROPYLTOLUENE	0.589	0.754	-28.0	110	0.00	20.25
103	o-DICHLOROBENZENE	1.398	1.775	-27.0	116	0.00	20.39
104	n-BUTYLBENZENE	0.557	0.726	-30.3#	107	0.00	20.85
105	HEXACHLOROETHANE	0.998	1.311	-31.4#	116	-0.01	21.31
106	HEXACHLOROBUTADIENE	1.347	1.932	-43.4#	131	-0.02	23.34
107	1,2,4-TRICHLOROBENZENE	1.298	1.743	-34.3#	130	-0.02	23.20
108	NAPHTHALENE	2.796	3.647	-30.4#	115	-0.02	22.86
109 I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	100	0.00	7.64
110	TVHC as equiv Pentane	5.856	6.443	-10.0	110	0.00	5.20

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w56002.D M5w2144.M Fri Jan 31 07:44:16 2025

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Initial Calibration Summary

Page 1 of 4

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2187-ICC2187
Lab FileID: 5W57044.D

Response Factor Report GCMS5W

Method : C:\msdchem\1\methods\M5w2187.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
Last Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

Calibration Files

0.04=5w57030.D 0.1 =5w57031.D 0.2 =5w57037.D 0.5 =5w57059.D
5 =5w57043.D 10 =5w57044.D 20 =5w57045.D 40 =5w57046.D
50 =5w57047.D =

Compound	0.04	0.1	0.2	0.5	5	10	20	40	50	Avg	%RSD
1) I BROMOCHLOROMETHANE	-----ISTD-----										
2) FREON 115										0.000	-1.00
3) FREON 152A											
	1.212	0.866	0.827	0.770	0.634	0.645	0.651	0.685	0.679	0.774	23.78
4) CHLORODIFLUOROMETHANE											
	0.435	0.348	0.405	0.384	0.315	0.318	0.319	0.327	0.319	0.352	12.75
5) CHLOROTRIFLUOROETHENE											
	1.797	1.705	1.942	1.943	1.657	1.669	1.660	1.666	1.614	1.739	7.22
6) DICHLORODIFLUOROMETHANE											
	3.441	3.235	3.663	3.727	3.087	3.064	2.888	2.759	2.619	3.165	12.24
7) PROPYLENE											
	1.324	1.040	1.059	0.887	0.703	0.703	0.695	0.712	0.687	0.868	26.27
8) 1-CHLORO-1,1-DIFLUOROETHANE											
	3.186	2.647	3.209	3.270	2.621	2.563	2.394	2.187	2.001	2.675	17.17
9) FREON 114											
	3.809	3.595	4.225	4.242	3.382	3.229	2.955	2.545	2.301	3.365	20.35
10) CHLOROMETHANE											
	0.509	0.549	0.471	0.389	0.366	0.343	0.311	0.284		0.403	24.00
11) VINYL CHLORIDE											
	1.422	1.396	1.512	1.533	1.239	1.199	1.114	1.019	0.948	1.265	16.85
12) 1,3-BUTADIENE											
	0.859	0.867	0.978	1.036	0.798	0.779	0.713	0.644	0.598	0.808	17.94
13) n-BUTANE											
	1.550	1.502	1.669	1.599	1.292	1.222	1.109	0.987	0.913	1.316	21.11
14) BROMOMETHANE											
	1.565	1.443	1.598	1.763	1.266	1.245	1.180	1.112	1.033	1.356	18.26
15) CHLOROETHANE											
	0.835	0.659	0.735	0.713	0.559	0.546	0.515	0.489	0.456	0.612	21.09
16) DICHLOROFLUOROMETHANE											
	3.092	2.581	3.218	2.973	2.550	2.472	2.303	2.120	1.959	2.585	16.81
17) ACETONITRILE											
	0.970	0.871	0.858	0.878	0.747	0.714	0.660	0.593	0.544	0.759	19.02
18) ACROLEIN											
	0.441	0.348	0.532	0.492	0.500	0.459	0.414	0.369	0.337	0.433	16.24
19) FREON 123											
	2.987	2.683	4.145	3.142	2.830	2.723	2.492	2.231	2.034	2.807	21.76
20) FREON 123A											
	2.331	1.951	2.194	1.898	1.682	1.628	1.517	1.394	1.290	1.765	20.11
21) TRICHLOROFLUOROMETHANE											
	3.288	3.261	3.862	3.665	3.104	2.998	2.798	2.572	2.391	3.104	15.47
22) ISOPROPYL ALCOHOL											
			3.173	2.475	1.968	1.970	1.766	1.652	1.369	2.053	29.20
23) ACETONE											

Initial Calibration Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2187-ICC2187
Lab FileID: 5W57044.D

		0.811	0.556	0.517	0.481	0.449	0.408	0.377	0.514	28.10
24)	PENTANE									
		1.049	0.898	1.070	1.087	0.903	0.874	0.849	0.856	0.836
25)	IODOMETHANE									
		3.113	3.137	3.636	4.001	3.060	3.018	2.957	2.920	2.807
26)	1,1-DICHLOROETHYLENE									
		1.177	1.075	1.224	1.243	0.976	0.957	0.925	0.914	0.888
27)	CARBON DISULFIDE									
		2.904	2.999	3.358	3.446	2.716	2.619	2.492	2.410	2.301
28)	ETHANOL									
				0.680	0.554	0.528	0.481	0.423	0.399	0.511
29)	BROMOETHENE									
		1.443	1.385	1.536	1.340	1.271	1.248	1.188	1.121	1.045
30)	ACRYLONITRILE									
				0.891	0.669	0.628	0.620	0.605	0.615	0.608
31)	METHYLENE CHLORIDE									
		1.384	1.234	0.885	0.855	0.821	0.803	0.777	0.966	24.96
32)	3-CHLOROPROPENE									
		0.429	0.484	0.658	0.546	0.452	0.444	0.431	0.432	0.421
33)	FREON 113									
		1.921	1.915	2.262	2.430	1.828	1.809	1.769	1.765	1.713
34)	TRANS-1,2-DICHLOROETHYLENE									
		1.264	1.096	1.232	1.294	1.038	1.027	1.015	1.039	1.017
35)	TERTIARY BUTYL ALCOHOL									
		2.326	2.166	2.400	2.391	1.983	1.944	1.883	1.779	1.731
36)	METHYL TERTIARY BUTYL ETHER									
		4.220	2.954	3.466	3.304	2.590	2.585	2.529	2.502	2.409
37)	TETRAHYDROFURAN									
		0.134	0.303	0.450	0.495	0.437	0.439	0.433	0.441	0.431
38)	HEXANE									
		2.175	1.840	1.919	1.771	1.501	1.503	1.516	1.572	1.510
39)	VINYL ACETATE									
		0.060	0.178	0.189	0.180	0.189	0.198	0.205	0.202	0.175
40)	1,1-DICHLOROETHANE									
		2.034	1.980	2.265	2.289	1.849	1.830	1.778	1.776	1.721
41)	METHYL ETHYL KETONE									
		0.195	0.386	0.424	0.438	0.440	0.440	0.445	0.435	0.400
42)	cis-1,2-DICHLOROETHYLENE									
		1.279	1.191	1.320	1.350	1.087	1.086	1.089	1.104	1.076
43)	DIISOPROPYL ETHER									
		0.236	0.358	0.499	0.499	0.450	0.456	0.458	0.477	0.459
44)	ETHYL ACETATE									
		0.162	0.318	0.339	0.333	0.338	0.325	0.330	0.321	0.308
45)	METHYL ACRYLATE									
		2.614	1.591	1.760	1.835	1.849	1.825	1.838	1.765	1.885
46)	CHLOROFORM									
		2.552	2.442	2.698	2.768	2.184	2.144	2.049	1.976	1.898
47)	2,4-DIMETHYLPENTANE									
		2.401	2.085	2.156	2.007	1.751	1.738	1.712	1.722	1.676
48)	1,1,1-TRICHLOROETHANE									
		2.437	2.477	2.817	2.865	2.299	2.292	2.235	2.217	2.144
49)	CARBON TETRACHLORIDE									
		2.700	2.626	3.076	3.230	2.616	2.619	2.581	2.570	2.474
50)	1,2-DICHLOROETHANE									
		1.540	1.577	1.780	1.830	1.515	1.515	1.486	1.501	1.464
51)	I 1,4-DIFLUOROBENZENE									
52)	BENZENE									
		0.720	0.687	0.765	0.793	0.641	0.651	0.651	0.668	0.660
53)	CYCLOHEXANE									

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Initial Calibration Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2187-ICC2187
Lab FileID: 5W57044.D

		0.299	0.274	0.322	0.319	0.261	0.263	0.262	0.270	0.268	0.282	8.76
54)	2,3-DIMETHYLPENTANE											
		0.126	0.138	0.156	0.157	0.131	0.133	0.136	0.143	0.144	0.141	7.66
55)	TRICHLOROETHYLENE											
		0.382	0.352	0.389	0.405	0.332	0.332	0.335	0.348	0.344	0.358	7.62
56)	1,2-DICHLOROPROPANE											
		0.329	0.286	0.319	0.306	0.260	0.262	0.264	0.275	0.272	0.286	9.10
57)	DIBROMOMETHANE											
		0.477	0.374	0.432	0.449	0.358	0.368	0.376	0.396	0.395	0.403	10.21
58)	ETHYL ACRYLATE											
		0.206	0.458	0.460	0.496	0.507	0.508	0.519	0.511		0.458	22.77
59)	BROMODICHLOROMETHANE											
		0.616	0.597	0.652	0.681	0.566	0.571	0.572	0.587	0.578	0.602	6.67
60)	2,2,4-TRIMETHYLPENTANE											
		1.222	1.113	1.209	1.236	1.029	1.022	1.003	1.001	0.971	1.090	9.80
61)	1,4-DIOXANE											
		0.099	0.148	0.183	0.175	0.158	0.160	0.160	0.163	0.165	0.157	15.14
62)	HEPTANE											
		0.385	0.373	0.397	0.418	0.352	0.347	0.349	0.366	0.361	0.372	6.43
63)	METHYL METHACRYLATE											
		0.123	0.166	0.249	0.242	0.224	0.229	0.231	0.236	0.237	0.215	19.60
64)	METHYL ISOBUTYL KETONE											
		0.138	0.196	0.210	0.202	0.209	0.211	0.221	0.221		0.201	13.34
65)	cis-1,3-DICHLOROPROPENE											
		0.402	0.414	0.475	0.483	0.430	0.443	0.455	0.483	0.484	0.452	6.97
66)	TOLUENE											
		0.448	0.504	0.552	0.575	0.486	0.499	0.506	0.531	0.530	0.514	7.27
67)	1,3-DICHLOROPROPANE											
		0.336	0.372	0.443	0.474	0.399	0.400	0.399	0.406	0.401	0.403	9.67
68)	trans-1,3-DICHLOROPROPENE											
		0.327	0.352	0.413	0.444	0.400	0.417	0.433	0.459	0.458	0.412	11.13
69)	1,1,2-TRICHLOROETHANE											
		0.268	0.266	0.306	0.314	0.263	0.270	0.273	0.285	0.283	0.281	6.43
70)	I CHLOROBENZENE-D5	-----ISTD-----										
71)	2-HEXANONE											
		0.269	0.431	0.556	0.602	0.599	0.575	0.544	0.517		0.512	21.92
72)	ETHYL METHACRYLATE											
		0.490	0.705	0.805	0.915	0.830	0.813	0.767	0.710	0.668	0.745	16.35
73)	TETRACHLOROETHYLENE											
		0.827	0.815	0.993	1.055	0.788	0.768	0.721	0.667	0.627	0.807	17.39
74)	DIBROMOCHLOROMETHANE											
		1.279	1.283	1.455	1.685	1.323	1.303	1.220	1.118	1.048	1.302	14.29
75)	1,2-DIBROMOETHANE											
		0.992	1.022	1.213	1.323	1.048	1.026	0.963	0.886	0.832	1.034	14.71
76)	OCTANE											
		1.195	1.089	1.247	1.284	1.024	1.008	0.952	0.889	0.827	1.057	15.08
77)	1,1,1,2-TETRACHLOROETHANE											
		0.821	0.835	0.996	1.076	0.853	0.853	0.822	0.782	0.735	0.864	12.28
78)	CHLOROBENZENE											
		1.555	1.540	1.708	1.851	1.417	1.396	1.309	1.207	1.123	1.456	16.03
79)	ETHYLBENZENE											
		2.355	2.289	2.563	2.748	2.167	2.110	1.969	1.788	1.656	2.183	16.12
80)	m,p-XYLENE											
		0.920	0.885	1.012	1.091	0.862	0.846	0.805	0.756	0.711	0.877	13.64
81)	o-XYLENE											
		0.847	0.855	0.982	1.056	0.830	0.814	0.776	0.728	0.673	0.840	14.10
82)	STYRENE											
		1.134	1.323	1.478	1.603	1.305	1.292	1.230	1.153	1.096	1.290	12.81
83)	NONANE											

Initial Calibration Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2187-ICC2187
Lab FileID: 5W57044.D

		1.540	1.405	1.394	1.282	1.058	1.025	0.962	0.886	0.810	1.152	22.52
84)	BROMOFORM											
		1.259	1.310	1.212	1.726	1.394	1.363	1.267	1.139	1.063	1.304	14.52
85)	4-BROMOFLUOROBENZENE											
		1.384	1.387	1.379	1.394	1.342	1.308	1.227	1.113	1.067	1.289	9.69
86)	1,1,2,2-TETRACHLOROETHANE											
		1.476	1.395	1.654	1.772	1.388	1.344	1.254	1.129	1.021	1.381	17.13
87)	1,2,3-TRICHLOROPROPANE											
		1.106	1.068	1.230	1.303	1.005	0.966	0.896	0.824	0.773	1.019	17.43
88)	ISOPROPYLBENZENE											
		2.623	2.557	2.953	3.171	2.461	2.400	2.262	2.073	1.916	2.491	15.96
89)	BROMOBENZENE											
		1.573	1.382	1.479	1.594	1.207	1.181	1.107	1.015	0.950	1.277	18.75
90)	2-CHLOROTOLUENE											
		0.654	0.672	0.807	0.877	0.700	0.694	0.662	0.631	0.598	0.699	12.62
91)	n-PROPYLBENZENE											
		0.636	0.696	0.802	0.902	0.708	0.692	0.654	0.617	0.582	0.699	14.15
92)	4-ETHYLTOLUENE											
		2.515	2.456	2.821	3.109	2.478	2.386	2.224	2.024	1.854	2.430	15.71
93)	1,3,5-TRIMETHYLBENZENE											
		2.471	2.268	2.516	2.651	2.049	1.983	1.855	1.694	1.549	2.115	18.19
94)	ALPHA-METHYLSTYRENE											
		0.975	0.998	1.197	1.294	1.122	1.110	1.070	1.018	0.954	1.082	10.29
95)	tert-BUTYLBENZENE											
		0.429	0.544	0.601	0.473	0.469	0.462	0.432	0.397	0.476	13.93	
96)	1,2,4-TRIMETHYLBENZENE											
		2.368	2.143	2.441	2.628	2.109	2.068	1.955	1.683	1.493	2.098	17.13
97)	m-DICHLOROBENZENE											
		1.921	1.784	1.919	2.108	1.662	1.621	1.538	1.395	1.250	1.689	16.21
98)	BENZYL CHLORIDE											
		1.506	1.574	1.993	2.129	2.019	2.007	1.910	1.673	1.472	1.809	13.94
99)	p-DICHLOROBENZENE											
		2.246	1.981	2.041	2.194	1.602	1.535	1.434	1.329	1.225	1.732	22.36
100)	sec-BUTYLBENZENE											
		0.561	0.549	0.702	0.757	0.589	0.570	0.536	0.504	0.472	0.582	15.71
101)	1,2,3-TRIMETHYLBENZENE											
		2.450	2.207	2.608	2.741	2.134	2.092	1.994	1.810	1.633	2.185	16.59
102)	p-ISOPROPYLTOLUENE											
		0.676	0.644	0.766	0.850	0.676	0.663	0.631	0.583	0.530	0.669	14.11
103)	o-DICHLOROBENZENE											
		1.915	1.770	1.930	2.063	1.531	1.469	1.378	1.287	1.194	1.615	19.38
104)	n-BUTYLBENZENE											
		0.551	0.599	0.732	0.775	0.673	0.665	0.647	0.625	0.579	0.650	11.04
105)	HEXACHLOROETHANE											
		0.987	0.933	1.192	1.297	1.058	1.037	0.989	0.913	0.818	1.025	14.21
106)	HEXACHLOROBUTADIENE											
		1.776	1.533	1.885	1.800	1.517	1.467	1.395	1.189	1.023	1.510	18.91
107)	1,2,4-TRICHLOROBENZENE											
		2.005	1.375	1.520	0.841	1.403	1.380	1.320	1.209	1.129	1.354	23.23
108)	NAPHTHALENE											
		4.161	3.510	2.861	3.224	3.107	2.824	2.401	2.156	3.030	20.81	
109)	I BROMOCHLOROMETHANE (A -----ISTD-----											
110)	TVHC as equiv Pentane											
		9.396	9.682	7.315	6.637	5.947	6.064	5.762	5.802	5.684	6.921	22.73

(#) = Out of Range ### Number of calibration levels exceeded format ###

M5w2187.M

Mon Feb 24 14:25:43 2025

Initial Calibration Verification

Page 1 of 3

Job Number: JE5976
 Account: EAENYS EA Engineering
 Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2187-ICV2187
 Lab FileID: 5W57061.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\5w57061.D
 Acq On : 24 Feb 2025 9:33 am
 Sample : icv2187-10
 Misc : MS88386,V5W2187,,,,,1
 MS Integration Params: RTEINT1.P

Vial: 5
 Operator: benk
 Inst : GCMS5W
 Multiplr: 1.00

Method : C:\msdchem\1\methods\M5w2187.M (RTE Integrator)
 Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon Feb 24 14:22:14 2025
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	101	0.00	7.57
2	FREON 115			-----NA-----			
3	FREON 152A	0.774	0.636	17.8	99	0.00	3.48
4	CHLORODIFLUOROMETHANE	0.352	0.321	8.8	102	0.00	3.52
5	CHLOROTRIFLUOROETHENE	1.739	1.655	4.8	100	0.00	3.54
6	DICHLORODIFLUOROMETHANE	3.165	3.012	4.8	99	0.00	3.59
7	PROPYLENE	0.868	0.677	22.0	97	0.00	3.53
8	1-CHLORO-1,1-DIFLUOROETHA	2.675	2.536	5.2	99	0.00	3.69
9	FREON 114	3.365	3.218	4.4	100	0.00	3.77
10	CHLOROMETHANE	0.403	0.366	9.2	101	0.00	3.70
11	VINYL CHLORIDE	1.265	1.177	7.0	99	0.00	3.86
12	1,3-BUTADIENE	0.808	0.767	5.1	99	0.00	3.96
13	n-BUTANE	1.316	1.209	8.1	99	0.00	3.99
14	BROMOMETHANE	1.356	1.254	7.5	101	0.00	4.16
15	CHLOROETHANE	0.612	0.544	11.1	100	0.00	4.28
16	DICHLOROFLUOROMETHANE	2.585	2.517	2.6	102	0.00	4.34
17	ACETONITRILE	0.759	0.728	4.1	103	0.00	4.54
18	ACROLEIN	0.433	0.453	-4.6	99	0.00	4.63
19	FREON 123	2.807	2.663	5.1	98	0.00	4.65
20	FREON 123A	1.765	1.489	15.6	92	0.00	4.70
21	TRICHLOROFLUOROMETHANE	3.104	3.019	2.7	101	0.00	4.85
22	ISOPROPYL ALCOHOL	2.053	2.023	1.5	103	0.00	4.94
23	ACETONE	0.514	0.490	4.7	102	0.00	4.74
24	PENTANE	0.936	0.834	10.9	96	0.00	5.14
25	IODOMETHANE	3.183	2.956	7.1	98	0.00	5.33
26	1,1-DICHLOROETHYLENE	1.042	0.945	9.3	99	0.00	5.39
27	CARBON DISULFIDE	2.805	2.727	2.8	105	0.00	5.75
28	ETHANOL	0.511	0.435	14.9	83	0.00	4.37
29	BROMOETHENE	1.286	1.246	3.1	100	0.00	4.54
30	ACRYLONITRILE	0.662	0.585	11.6	95	0.00	5.11
31	METHYLENE CHLORIDE	0.966	0.865	10.5	102	0.00	5.50
32	3-CHLOROPROPENE	0.478	0.428	10.5	97	0.00	5.60
33	FREON 113	1.935	1.840	4.9	102	0.00	5.72
34	TRANS-1,2-DICHLOROETHYLEN	1.114	1.032	7.4	101	0.00	6.35
35	TERTIARY BUTYL ALCOHOL	2.067	2.067	0.0	107	0.00	5.45
36	METHYL TERTIARY BUTYL ETH	2.951	2.523	14.5	98	0.00	6.61
37	TETRAHYDROFURAN	0.396	0.431	-8.8	99	0.00	8.13
38	HEXANE	1.701	1.424	16.3	95	0.00	7.60
39	VINYL ACETATE	0.175	0.194	-10.9	103	0.00	6.71
40	1,1-DICHLOROETHANE	1.947	1.757	9.8	97	0.00	6.55
41	METHYL ETHYL KETONE	0.400	0.425	-6.2	97	0.00	6.95
42	cis-1,2-DICHLOROETHYLENE	1.176	1.075	8.6	99	0.00	7.40

Initial Calibration Verification

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2187-ICV2187
Lab FileID: 5W57061.D

43	DIISOPROPYL ETHER	0.432	0.441	-2.1	97	0.00	7.61
44	ETHYL ACETATE	0.308	0.313	-1.6	93	0.00	7.65
45	METHYL ACRYLATE	1.885	1.788	5.1	97	0.00	7.63
46	CHLOROFORM	2.301	2.159	6.2	101	0.00	7.71
47	2,4-DIMETHYLPENTANE	1.917	1.655	13.7	96	0.00	8.56
48	1,1,1-TRICHLOROETHANE	2.420	2.284	5.6	100	0.00	8.78
49	CARBON TETRACHLORIDE	2.721	2.554	6.1	98	0.00	9.47
50	1,2-DICHLOROETHANE	1.578	1.460	7.5	97	0.00	8.51
51 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	100	0.00	9.74
52	BENZENE	0.693	0.638	7.9	98	0.00	9.30
53	CYCLOHEXANE	0.282	0.256	9.2	97	0.00	9.60
54	2,3-DIMETHYLPENTANE	0.141	0.129	8.5	97	0.00	9.90
55	TRICHLOROETHYLENE	0.358	0.329	8.1	99	0.00	10.55
56	1,2-DICHLOROPROPANE	0.286	0.257	10.1	98	0.00	10.26
57	DIBROMOMETHANE	0.403	0.373	7.4	101	0.00	10.23
58	ETHYL ACRYLATE	0.458	0.493	-7.6	97	0.00	10.31
59	BROMODICHLOROMETHANE	0.602	0.570	5.3	100	0.00	10.51
60	2,2,4-TRIMETHYLPENTANE	1.090	0.989	9.3	96	0.00	10.59
61	1,4-DIOXANE	0.157	0.159	-1.3	99	0.00	10.57
62	HEPTANE	0.372	0.329	11.6	95	0.00	10.94
63	METHYL METHACRYLATE	0.215	0.222	-3.3	96	0.00	10.84
64	METHYL ISOBUTYL KETONE	0.201	0.199	1.0	95	0.00	11.69
65	cis-1,3-DICHLOROPROPENE	0.452	0.405	10.4	91	0.00	11.63
66	TOLUENE	0.514	0.488	5.1	97	0.00	12.86
67	1,3-DICHLOROPROPANE	0.403	0.396	1.7	99	0.00	12.91
68	trans-1,3-DICHLOROPROPENE	0.412	0.404	1.9	97	0.00	12.31
69	1,1,2-TRICHLOROETHANE	0.281	0.270	3.9	100	0.00	12.51
70 I	CHLOROBENZENE-D5	1.000	1.000	0.0	99	0.00	15.26
71	2-HEXANONE	0.512	0.572	-11.7	95	0.00	13.26
72	ETHYL METHACRYLATE	0.745	0.811	-8.9	99	0.00	13.30
73	TETRACHLOROETHYLENE	0.807	0.779	3.5	101	0.00	14.37
74	DIBROMOCHLOROMETHANE	1.302	1.296	0.5	99	0.00	13.41
75	1,2-DIBROMOETHANE	1.034	1.018	1.5	98	0.00	13.73
76	OCTANE	1.057	0.956	9.6	94	0.00	14.24
77	1,1,1,2-TETRACHLOROETHANE	0.864	0.849	1.7	99	0.00	15.30
78	CHLOROBENZENE	1.456	1.375	5.6	98	0.00	15.32
79	ETHYLBENZENE	2.183	2.083	4.6	98	0.00	15.87
80	m,p-XYLENE	0.877	0.829	5.5	97	0.00	16.14
81	o-XYLENE	0.840	0.795	5.4	97	0.00	16.81
82	STYRENE	1.290	1.216	5.7	93	0.00	16.66
83	NONANE	1.152	0.974	15.5	94	0.00	17.22
84	BROMOFORM	1.304	1.301	0.2	95	0.00	16.20
85 S	4-BROMOFLUOROBENZENE	1.289	1.310	-1.6	99	0.00	17.50
86	1,1,2,2-TETRACHLOROETHANE	1.381	1.322	4.3	98	0.00	16.82
87	1,2,3-TRICHLOROPROPANE	1.019	0.958	6.0	98	0.00	17.00
88	ISOPROPYLBENZENE	2.491	2.382	4.4	98	0.00	17.73
89	BROMOBENZENE	1.277	1.169	8.5	98	0.00	17.81
90	2-CHLOROTOLUENE	0.699	0.697	0.3	100	0.00	18.45
91	n-PROPYLBENZENE	0.699	0.685	2.0	98	0.00	18.55
92	4-ETHYLTOLUENE	2.430	2.315	4.7	96	0.00	18.79
93	1,3,5-TRIMETHYLBENZENE	2.115	1.931	8.7	97	0.00	18.93
94	ALPHA-METHYLSTYRENE	1.082	0.996	7.9	89	0.00	19.18
95	tert-BUTYLBENZENE	0.476	0.469	1.5	99	0.00	19.53
96	1,2,4-TRIMETHYLBENZENE	2.098	2.017	3.9	97	0.00	19.55
97	m-DICHLOROBENZENE	1.689	1.610	4.7	98	0.00	19.74
98	BENZYL CHLORIDE	1.809	1.963	-8.5	97	0.00	19.73
99	p-DICHLOROBENZENE	1.732	1.503	13.2	97	0.00	19.84
100	sec-BUTYLBENZENE	0.582	0.564	3.1	98	0.00	19.94

Initial Calibration Verification

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2187-ICV2187
Lab FileID: 5W57061.D

101	1,2,3-TRIMETHYLBENZENE	2.185	2.052	6.1	97	0.00	20.16
102	p-ISOPROPYLTOLUENE	0.669	0.659	1.5	99	0.00	20.19
103	o-DICHLOROBENZENE	1.615	1.447	10.4	98	0.00	20.33
104	n-BUTYLBENZENE	0.650	0.650	0.0	97	0.00	20.79
105	HEXACHLOROETHANE	1.025	0.897	12.5	86	0.00	21.25
106	HEXACHLOROBUTADIENE	1.510	1.493	1.1	101	0.00	23.20
107	1,2,4-TRICHLOROBENZENE	1.354	1.383	-2.1	99	0.00	23.06
108	NAPHTHALENE	3.030	3.154	-4.1	101	0.00	22.74
109 I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	101	0.00	7.57
110	TVHC as equiv Pentane	6.921	5.660	18.2	94	0.00	5.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w57044.D M5w2187.M Mon Feb 24 14:25:15 2025

6.9.5
6

Continuing Calibration Summary

Page 1 of 3

Job Number: JE5976
 Account: EAENYS EA Engineering
 Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2193-CC2187
 Lab FileID: 5W57161.D

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\k...425\v5w2193\5w57161.D Vial: 2
 Acq On : 3 Mar 2025 1:00 pm Operator: thomash
 Sample : cc2187-10 Inst : GCMS5W
 Misc : MS89870,V5W2193,,,,,1 Multiplr: 1.00
 MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2187.M (RTE Integrator)
 Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon Feb 24 14:22:14 2025
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	86	0.00	7.57
2	FREON 115			-----NA-----			
3	FREON 152A	0.774	0.704	9.0	93	0.00	3.48
4	CHLORODIFLUOROMETHANE	0.352	0.339	3.7	91	0.00	3.52
5	CHLOROTRIFLUOROETHENE	1.739	1.701	2.2	87	0.00	3.54
6	DICHLORODIFLUOROMETHANE	3.165	3.297	-4.2	92	0.00	3.59
7	PROPYLENE	0.868	0.712	18.0	87	0.00	3.53
8	1-CHLORO-1,1-DIFLUOROETHA	2.675	3.222	-20.4	108	0.00	3.69
9	FREON 114	3.365	4.036	-19.9	107	0.00	3.77
10	CHLOROMETHANE	0.403	0.465	-15.4	109	0.00	3.70
11	VINYL CHLORIDE	1.265	1.538	-21.6	110	0.00	3.86
12	1,3-BUTADIENE	0.808	0.996	-23.3	110	0.00	3.96
13	n-BUTANE	1.316	1.565	-18.9	110	0.00	3.99
14	BROMOMETHANE	1.356	1.591	-17.3	109	0.00	4.15
15	CHLOROETHANE	0.612	0.705	-15.2	111	0.00	4.27
16	DICHLOROFLUOROMETHANE	2.585	3.226	-24.8	112	0.00	4.34
17	ACETONITRILE	0.759	0.929	-22.4	111	0.00	4.54
18	ACROLEIN	0.433	0.553	-27.7	103	0.00	4.63
19	FREON 123	2.807	3.542	-26.2	111	0.00	4.65
20	FREON 123A	1.765	1.936	-9.7	102	0.00	4.70
21	TRICHLOROFLUOROMETHANE	3.104	3.756	-21.0	107	0.00	4.85
22	ISOPROPYL ALCOHOL	2.053	2.432	-18.5	106	0.00	4.93
23	ACETONE	0.514	0.667	-29.8	119	0.00	4.73
24	PENTANE	0.936	0.912	2.6	89	0.00	5.14
25	IODOMETHANE	3.183	3.044	4.4	86	0.00	5.33
26	1,1-DICHLOROETHYLENE	1.042	1.001	3.9	89	0.00	5.39
27	CARBON DISULFIDE	2.805	2.846	-1.5	93	0.00	5.75
28	ETHANOL	0.511	0.631	-23.5	102	0.00	4.37
29	BROMOETHENE	1.286	1.520	-18.2	104	0.00	4.54
30	ACRYLONITRILE	0.662	0.644	2.7	89	0.00	5.11
31	METHYLENE CHLORIDE	0.966	0.936	3.1	94	0.00	5.50
32	3-CHLOROPROPENE	0.478	0.481	-0.6	93	0.00	5.60
33	FREON 113	1.935	1.840	4.9	87	0.00	5.72
34	TRANS-1,2-DICHLOROETHYLEN	1.114	1.081	3.0	90	0.00	6.35
35	TERTIARY BUTYL ALCOHOL	2.067	2.058	0.4	91	0.00	5.45
36	METHYL TERTIARY BUTYL ETH	2.951	2.705	8.3	90	0.00	6.61
37	TETRAHYDROFURAN	0.396	0.467	-17.9	91	0.00	8.13
38	HEXANE	1.701	1.630	4.2	93	0.00	7.60
39	VINYL ACETATE	0.175	0.197	-12.6	89	0.00	6.71
40	1,1-DICHLOROETHANE	1.947	1.949	-0.1	91	0.00	6.55
41	METHYL ETHYL KETONE	0.400	0.472	-18.0	92	0.00	6.95
42	cis-1,2-DICHLOROETHYLENE	1.176	1.132	3.7	89	0.00	7.40

Continuing Calibration Summary

Page 2 of 3

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2193-CC2187
Lab FileID: 5W57161.D

43	DIISOPROPYL ETHER	0.432	0.501	-16.0	94	0.00	7.61
44	ETHYL ACETATE	0.308	0.368	-19.5	93	0.00	7.64
45	METHYL ACRYLATE	1.885	2.004	-6.3	93	0.00	7.63
46	CHLOROFORM	2.301	2.332	-1.3	93	0.00	7.71
47	2,4-DIMETHYLPENTANE	1.917	1.861	2.9	92	0.00	8.56
48	1,1,1-TRICHLOROETHANE	2.420	2.372	2.0	89	0.00	8.78
49	CARBON TETRACHLORIDE	2.721	2.616	3.9	85	0.00	9.46
50	1,2-DICHLOROETHANE	1.578	1.575	0.2	89	0.00	8.50
51 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	86	0.00	9.74
52	BENZENE	0.693	0.691	0.3	91	0.00	9.30
53	CYCLOHEXANE	0.282	0.277	1.8	91	0.00	9.60
54	2,3-DIMETHYLPENTANE	0.141	0.142	-0.7	92	0.00	9.90
55	TRICHLOROETHYLENE	0.358	0.352	1.7	91	0.00	10.55
56	1,2-DICHLOROPROPANE	0.286	0.284	0.7	93	0.00	10.26
57	DIBROMOMETHANE	0.403	0.374	7.2	88	0.00	10.23
58	ETHYL ACRYLATE	0.458	0.533	-16.4	91	0.00	10.31
59	BROMODICHLOROMETHANE	0.602	0.612	-1.7	92	0.00	10.50
60	2,2,4-TRIMETHYLPENTANE	1.090	1.110	-1.8	94	0.00	10.58
61	1,4-DIOXANE	0.157	0.168	-7.0	91	0.00	10.57
62	HEPTANE	0.372	0.356	4.3	88	0.00	10.93
63	METHYL METHACRYLATE	0.215	0.242	-12.6	91	0.00	10.84
64	METHYL ISOBUTYL KETONE	0.201	0.223	-10.9	92	0.00	11.69
65	cis-1,3-DICHLOROPROPENE	0.452	0.464	-2.7	90	0.00	11.63
66	TOLUENE	0.514	0.512	0.4	88	0.00	12.86
67	1,3-DICHLOROPROPANE	0.403	0.428	-6.2	92	0.00	12.91
68	trans-1,3-DICHLOROPROPENE	0.412	0.435	-5.6	90	0.00	12.31
69	1,1,2-TRICHLOROETHANE	0.281	0.291	-3.6	93	0.00	12.51
70 I	CHLOROBENZENE-D5	1.000	1.000	0.0	92	0.00	15.25
71	2-HEXANONE	0.512	0.594	-16.0	91	0.00	13.26
72	ETHYL METHACRYLATE	0.745	0.799	-7.2	90	0.00	13.29
73	TETRACHLOROETHYLENE	0.807	0.730	9.5	87	0.00	14.37
74	DIBROMOCHLOROMETHANE	1.302	1.203	7.6	85	0.00	13.41
75	1,2-DIBROMOETHANE	1.034	0.980	5.2	88	0.00	13.73
76	OCTANE	1.057	0.971	8.1	88	0.00	14.23
77	1,1,1,2-TETRACHLOROETHANE	0.864	0.800	7.4	86	0.00	15.29
78	CHLOROBENZENE	1.456	1.335	8.3	88	0.00	15.31
79	ETHYLBENZENE	2.183	2.056	5.8	89	0.00	15.87
80	m,p-XYLENE	0.877	0.804	8.3	87	-0.02	16.12
81	o-XYLENE	0.840	0.784	6.7	88	0.00	16.81
82	STYRENE	1.290	1.203	6.7	85	0.00	16.66
83	NONANE	1.152	0.999	13.3	89	0.00	17.22
84	BROMOFORM	1.304	1.268	2.8	85	0.00	16.19
85 S	4-BROMOFLUOROBENZENE	1.289	1.272	1.3	89	0.00	17.50
86	1,1,2,2-TETRACHLOROETHANE	1.381	1.389	-0.6	95	0.00	16.81
87	1,2,3-TRICHLOROPROPANE	1.019	0.956	6.2	91	0.00	17.00
88	ISOPROPYLBENZENE	2.491	2.291	8.0	88	0.00	17.72
89	BROMOBENZENE	1.277	1.166	8.7	90	0.00	17.81
90	2-CHLOROTOLUENE	0.699	0.628	10.2	83	0.00	18.45
91	n-PROPYLBENZENE	0.699	0.631	9.7	84	0.00	18.54
92	4-ETHYLTOLUENE	2.430	2.246	7.6	86	0.00	18.79
93	1,3,5-TRIMETHYLBENZENE	2.115	1.855	12.3	86	0.00	18.93
94	ALPHA-METHYLSTYRENE	1.082	0.994	8.1	82	0.00	19.17
95	tert-BUTYLBENZENE	0.476	0.440	7.6	86	0.00	19.53
96	1,2,4-TRIMETHYLBENZENE	2.098	1.991	5.1	88	0.00	19.54
97	m-DICHLOROBENZENE	1.689	1.531	9.4	87	0.00	19.74
98	BENZYL CHLORIDE	1.809	1.931	-6.7	88	0.00	19.73
99	p-DICHLOROBENZENE	1.732	1.418	18.1	85	0.00	19.84
100	sec-BUTYLBENZENE	0.582	0.518	11.0	83	0.00	19.94

Continuing Calibration Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2193-CC2187
Lab FileID: 5W57161.D

101	1,2,3-TRIMETHYLBENZENE	2.185	1.959	10.3	86	0.00	20.16
102	p-ISOPROPYLTOLUENE	0.669	0.604	9.7	84	0.00	20.19
103	o-DICHLOROBENZENE	1.615	1.355	16.1	85	0.00	20.33
104	n-BUTYLBENZENE	0.650	0.597	8.2	82	0.00	20.79
105	HEXACHLOROETHANE	1.025	0.944	7.9	83	0.00	21.24
106	HEXACHLOROBUTADIENE	1.510	1.386	8.2	87	0.00	23.19
107	1,2,4-TRICHLOROBENZENE	1.354	1.168	13.7	78	0.00	23.06
108	NAPHTHALENE	3.030	2.485	18.0	73	0.00	22.74
109 I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	86	0.00	7.57
110	TVHC as equiv Pentane	6.921	6.316	8.7	89	0.00	5.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w57044.D M5w2187.M Tue Mar 04 10:15:58 2025

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Continuing Calibration Summary

Page 1 of 3

Job Number: JE5976
 Account: EAENYS EA Engineering
 Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2194-CC2187
 Lab FileID: 5W57175.D

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\A...025\V5W2194\5w57175.D Vial: 2
 Acq On : 4 Mar 2025 6:53 pm Operator: thomash
 Sample : cc2187-10 Inst : GCMS5W
 Misc : MS89870,V5W2194,,,,,1 Multiplr: 1.00
 MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2187.M (RTE Integrator)
 Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon Feb 24 14:22:14 2025
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	85	-0.01	7.56
2	FREON 115			-----NA-----			
3	FREON 152A	0.774	0.751	3.0	99	-0.01	3.47
4	CHLORODIFLUOROMETHANE	0.352	0.355	-0.9	94	0.00	3.51
5	CHLOROTRIFLUOROETHENE	1.739	1.748	-0.5	89	-0.01	3.53
6	DICHLORODIFLUOROMETHANE	3.165	3.450	-9.0	95	0.00	3.58
7	PROPYLENE	0.868	0.777	10.5	94	-0.01	3.53
8	1-CHLORO-1,1-DIFLUOROETHA	2.675	3.343	-25.0	110	0.00	3.68
9	FREON 114	3.365	4.094	-21.7	107	0.00	3.77
10	CHLOROMETHANE	0.403	0.475	-17.9	110	0.00	3.70
11	VINYL CHLORIDE	1.265	1.586	-25.4	112	-0.01	3.85
12	1,3-BUTADIENE	0.808	1.034	-28.0	112	0.00	3.95
13	n-BUTANE	1.316	1.622	-23.3	112	0.00	3.99
14	BROMOMETHANE	1.356	1.589	-17.2	108	-0.01	4.15
15	CHLOROETHANE	0.612	0.725	-18.5	112	-0.01	4.27
16	DICHLOROFLUOROMETHANE	2.585	3.266	-26.3	112	0.00	4.33
17	ACETONITRILE	0.759	0.948	-24.9	112	-0.01	4.52
18	ACROLEIN	0.433	0.603	-39.3#	111	-0.01	4.62
19	FREON 123	2.807	3.535	-25.9	110	-0.01	4.64
20	FREON 123A	1.765	1.909	-8.2	99	-0.01	4.68
21	TRICHLOROFLUOROMETHANE	3.104	3.728	-20.1	105	0.00	4.85
22	ISOPROPYL ALCOHOL	2.053	2.292	-11.6	98	-0.01	4.92
23	ACETONE	0.514	0.647	-25.9	114	-0.01	4.72
24	PENTANE	0.936	1.076	-15.0	104	-0.01	5.13
25	IODOMETHANE	3.183	3.154	0.9	88	-0.01	5.31
26	1,1-DICHLOROETHYLENE	1.042	0.985	5.5	87	-0.01	5.37
27	CARBON DISULFIDE	2.805	2.857	-1.9	92	0.00	5.75
28	ETHANOL	0.511	0.654	-28.0	105	-0.01	4.36
29	BROMOETHENE	1.286	1.512	-17.6	102	0.00	4.53
30	ACRYLONITRILE	0.662	0.829	-25.2	113	-0.01	5.10
31	METHYLENE CHLORIDE	0.966	0.945	2.2	93	-0.01	5.49
32	3-CHLOROPROPENE	0.478	0.468	2.1	89	-0.01	5.59
33	FREON 113	1.935	1.728	10.7	81	-0.01	5.71
34	TRANS-1,2-DICHLOROETHYLEN	1.114	1.051	5.7	87	-0.01	6.34
35	TERTIARY BUTYL ALCOHOL	2.067	2.093	-1.3	91	0.00	5.44
36	METHYL TERTIARY BUTYL ETH	2.951	2.665	9.7	87	-0.01	6.60
37	TETRAHYDROFURAN	0.396	0.457	-15.4	88	0.00	8.13
38	HEXANE	1.701	1.677	1.4	94	0.00	7.60
39	VINYL ACETATE	0.175	0.198	-13.1	89	-0.01	6.70
40	1,1-DICHLOROETHANE	1.947	1.970	-1.2	91	-0.01	6.54
41	METHYL ETHYL KETONE	0.400	0.471	-17.7	90	0.00	6.95
42	cis-1,2-DICHLOROETHYLENE	1.176	1.100	6.5	86	-0.01	7.39

Continuing Calibration Summary

Page 2 of 3

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2194-CC2187
Lab FileID: 5W57175.D

43	DIISOPROPYL ETHER	0.432	0.504	-16.7	94	0.00	7.61
44	ETHYL ACETATE	0.308	0.371	-20.5	93	0.00	7.64
45	METHYL ACRYLATE	1.885	2.048	-8.6	94	0.00	7.63
46	CHLOROFORM	2.301	2.256	2.0	89	-0.01	7.70
47	2,4-DIMETHYLPENTANE	1.917	1.863	2.8	91	0.00	8.56
48	1,1,1-TRICHLOROETHANE	2.420	2.269	6.2	84	-0.01	8.76
49	CARBON TETRACHLORIDE	2.721	2.466	9.4	80	-0.01	9.46
50	1,2-DICHLOROETHANE	1.578	1.536	2.7	86	-0.01	8.49
51 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	86	0.00	9.73
52	BENZENE	0.693	0.669	3.5	88	0.00	9.29
53	CYCLOHEXANE	0.282	0.267	5.3	87	0.00	9.59
54	2,3-DIMETHYLPENTANE	0.141	0.139	1.4	89	0.00	9.90
55	TRICHLOROETHYLENE	0.358	0.340	5.0	88	0.00	10.54
56	1,2-DICHLOROPROPANE	0.286	0.281	1.7	92	-0.01	10.25
57	DIBROMOMETHANE	0.403	0.341	15.4	79	0.00	10.23
58	ETHYL ACRYLATE	0.458	0.538	-17.5	91	0.00	10.31
59	BROMODICHLOROMETHANE	0.602	0.583	3.2	87	0.00	10.50
60	2,2,4-TRIMETHYLPENTANE	1.090	1.107	-1.6	93	0.00	10.58
61	1,4-DIOXANE	0.157	0.163	-3.8	87	0.00	10.56
62	HEPTANE	0.372	0.360	3.2	89	-0.01	10.92
63	METHYL METHACRYLATE	0.215	0.236	-9.8	88	0.00	10.84
64	METHYL ISOBUTYL KETONE	0.201	0.223	-10.9	91	0.00	11.69
65	cis-1,3-DICHLOROPROPENE	0.452	0.448	0.9	86	0.00	11.63
66	TOLUENE	0.514	0.488	5.1	84	0.00	12.86
67	1,3-DICHLOROPROPANE	0.403	0.411	-2.0	88	0.00	12.91
68	trans-1,3-DICHLOROPROPENE	0.412	0.417	-1.2	86	0.00	12.31
69	1,1,2-TRICHLOROETHANE	0.281	0.277	1.4	88	0.00	12.51
70 I	CHLOROBENZENE-D5	1.000	1.000	0.0	91	0.00	15.25
71	2-HEXANONE	0.512	0.605	-18.2	91	0.00	13.25
72	ETHYL METHACRYLATE	0.745	0.792	-6.3	88	0.00	13.29
73	TETRACHLOROETHYLENE	0.807	0.668	17.2	79	0.00	14.37
74	DIBROMOCHLOROMETHANE	1.302	1.146	12.0	80	0.00	13.41
75	1,2-DIBROMOETHANE	1.034	0.932	9.9	82	0.00	13.73
76	OCTANE	1.057	0.981	7.2	88	0.00	14.23
77	1,1,1,2-TETRACHLOROETHANE	0.864	0.751	13.1	80	0.00	15.29
78	CHLOROBENZENE	1.456	1.275	12.4	83	0.00	15.31
79	ETHYLBENZENE	2.183	1.960	10.2	84	0.00	15.86
80	m,p-XYLENE	0.877	0.768	12.4	82	-0.02	16.12
81	o-XYLENE	0.840	0.746	11.2	83	0.00	16.81
82	STYRENE	1.290	1.150	10.9	81	0.00	16.66
83	NONANE	1.152	0.996	13.5	88	0.00	17.22
84	BROMOFORM	1.304	1.244	4.6	83	0.00	16.19
85 S	4-BROMOFLUOROBENZENE	1.289	1.270	1.5	88	0.00	17.49
86	1,1,2,2-TETRACHLOROETHANE	1.381	1.336	3.3	90	0.00	16.81
87	1,2,3-TRICHLOROPROPANE	1.019	0.928	8.9	87	0.00	17.00
88	ISOPROPYLBENZENE	2.491	2.166	13.0	82	0.00	17.72
89	BROMOBENZENE	1.277	1.118	12.5	86	0.00	17.81
90	2-CHLOROTOLUENE	0.699	0.596	14.7	78	0.00	18.45
91	n-PROPYLBENZENE	0.699	0.599	14.3	78	0.00	18.54
92	4-ETHYLTOLUENE	2.430	2.149	11.6	81	0.00	18.79
93	1,3,5-TRIMETHYLBENZENE	2.115	1.775	16.1	81	0.00	18.93
94	ALPHA-METHYLSTYRENE	1.082	0.950	12.2	78	0.00	19.17
95	tert-BUTYLBENZENE	0.476	0.416	12.6	80	0.00	19.53
96	1,2,4-TRIMETHYLBENZENE	2.098	1.898	9.5	83	0.00	19.54
97	m-DICHLOROBENZENE	1.689	1.469	13.0	82	0.00	19.74
98	BENZYL CHLORIDE	1.809	1.793	0.9	81	0.00	19.73
99	p-DICHLOROBENZENE	1.732	1.365	21.2	80	0.00	19.84
100	sec-BUTYLBENZENE	0.582	0.494	15.1	78	0.00	19.94

Continuing Calibration Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2194-CC2187
Lab FileID: 5W57175.D

101	1,2,3-TRIMETHYLBENZENE	2.185	1.896	13.2	82	0.00	20.16
102	p-ISOPROPYLTOLUENE	0.669	0.576	13.9	79	0.00	20.19
103	o-DICHLOROBENZENE	1.615	1.302	19.4	80	0.00	20.33
104	n-BUTYLBENZENE	0.650	0.575	11.5	78	0.00	20.79
105	HEXACHLOROETHANE	1.025	0.949	7.4	83	0.00	21.24
106	HEXACHLOROBUTADIENE	1.510	1.359	10.0	84	0.00	23.19
107	1,2,4-TRICHLOROBENZENE	1.354	1.240	8.4	81	0.00	23.06
108	NAPHTHALENE	3.030	2.665	12.0	78	0.00	22.74
109 I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	85	-0.01	7.56
110	TVHC as equiv Pentane	6.921	7.812	-12.9	109	-0.01	5.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w57044.D M5w2187.M Wed Mar 05 16:16:27 2025

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Continuing Calibration Summary

Page 1 of 3

Job Number: JE5976
 Account: EAENYS EA Engineering
 Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2196-CC2187
 Lab FileID: 5W57222.D

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\k...725\v5w2196\5w57222.D Vial: 1
 Acq On : 6 Mar 2025 1:10 pm Operator: thomash
 Sample : cc2187-10 Inst : GCMS5W
 Misc : MS89870,V5W2196,,,,,1 Multiplr: 1.00
 MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2187.M (RTE Integrator)
 Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 Last Update : Mon Feb 24 14:22:14 2025
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	77	0.00	7.57
2	FREON 115			-----NA-----			
3	FREON 152A	0.774	0.662	14.5	79	0.00	3.48
4	CHLORODIFLUOROMETHANE	0.352	0.321	8.8	77	0.00	3.51
5	CHLOROTRIFLUOROETHENE	1.739	1.648	5.2	76	0.00	3.54
6	DICHLORODIFLUOROMETHANE	3.165	3.142	0.7	79	0.00	3.59
7	PROPYLENE	0.868	0.630	27.4	69	0.00	3.53
8	1-CHLORO-1,1-DIFLUOROETHA	2.675	3.198	-19.6	96	0.00	3.69
9	FREON 114	3.365	4.050	-20.4	96	0.00	3.77
10	CHLOROMETHANE	0.403	0.438	-8.7	92	0.00	3.70
11	VINYL CHLORIDE	1.265	1.451	-14.7	93	0.00	3.86
12	1,3-BUTADIENE	0.808	0.879	-8.8	87	0.00	3.96
13	n-BUTANE	1.316	1.355	-3.0	85	0.00	3.99
14	BROMOMETHANE	1.356	1.580	-16.5	97	0.00	4.15
15	CHLOROETHANE	0.612	0.676	-10.5	95	0.00	4.28
16	DICHLOROFLUOROMETHANE	2.585	3.141	-21.5	97	0.00	4.34
17	ACETONITRILE	0.759	0.810	-6.7	87	0.00	4.54
18	ACROLEIN	0.433	0.521	-20.3	87	0.00	4.63
19	FREON 123	2.807	3.534	-25.9	100	0.00	4.65
20	FREON 123A	1.765	1.975	-11.9	93	0.00	4.70
21	TRICHLOROFLUOROMETHANE	3.104	3.823	-23.2	98	0.00	4.85
22	ISOPROPYL ALCOHOL	2.053	2.285	-11.3	89	0.00	4.94
23	ACETONE	0.514	0.597	-16.1	95	0.00	4.74
24	PENTANE	0.936	0.836	10.7	73	0.00	5.14
25	IODOMETHANE	3.183	2.900	8.9	74	0.00	5.33
26	1,1-DICHLOROETHYLENE	1.042	0.993	4.7	80	0.00	5.39
27	CARBON DISULFIDE	2.805	2.795	0.4	82	0.00	5.75
28	ETHANOL	0.511	0.634	-24.1	92	0.00	4.38
29	BROMOETHENE	1.286	1.557	-21.1	96	0.00	4.54
30	ACRYLONITRILE	0.662	0.643	2.9	79	0.00	5.11
31	METHYLENE CHLORIDE	0.966	0.938	2.9	84	0.00	5.50
32	3-CHLOROPROPENE	0.478	0.460	3.8	79	0.00	5.60
33	FREON 113	1.935	1.719	11.2	73	0.00	5.72
34	TRANS-1,2-DICHLOROETHYLEN	1.114	1.058	5.0	79	0.00	6.35
35	TERTIARY BUTYL ALCOHOL	2.067	1.944	6.0	77	0.00	5.45
36	METHYL TERTIARY BUTYL ETH	2.951	2.624	11.1	78	0.00	6.61
37	TETRAHYDROFURAN	0.396	0.456	-15.2	80	0.00	8.14
38	HEXANE	1.701	1.595	6.2	81	0.00	7.60
39	VINYL ACETATE	0.175	0.193	-10.3	78	0.00	6.71
40	1,1-DICHLOROETHANE	1.947	1.904	2.2	80	0.00	6.55
41	METHYL ETHYL KETONE	0.400	0.459	-14.8	80	0.00	6.96
42	cis-1,2-DICHLOROETHYLENE	1.176	1.131	3.8	80	0.00	7.40

Continuing Calibration Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2196-CC2187
Lab FileID: 5W57222.D

43	DIISOPROPYL ETHER	0.432	0.483	-11.8	81	0.00	7.61
44	ETHYL ACETATE	0.308	0.365	-18.5	83	0.00	7.65
45	METHYL ACRYLATE	1.885	1.927	-2.2	80	0.00	7.63
46	CHLOROFORM	2.301	2.277	1.0	81	0.00	7.71
47	2,4-DIMETHYLPENTANE	1.917	1.769	7.7	78	0.00	8.56
48	1,1,1-TRICHLOROETHANE	2.420	2.306	4.7	77	0.00	8.78
49	CARBON TETRACHLORIDE	2.721	2.526	7.2	74	0.00	9.47
50	1,2-DICHLOROETHANE	1.578	1.512	4.2	77	0.00	8.51
51 I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	78	0.00	9.74
52	BENZENE	0.693	0.667	3.8	80	0.00	9.30
53	CYCLOHEXANE	0.282	0.265	6.0	79	0.00	9.60
54	2,3-DIMETHYLPENTANE	0.141	0.136	3.5	80	0.00	9.90
55	TRICHLOROETHYLENE	0.358	0.346	3.4	81	0.00	10.56
56	1,2-DICHLOROPROPANE	0.286	0.276	3.5	82	0.00	10.26
57	DIBROMOMETHANE	0.403	0.320	20.6	68	0.00	10.24
58	ETHYL ACRYLATE	0.458	0.506	-10.5	78	0.00	10.32
59	BROMODICHLOROMETHANE	0.602	0.589	2.2	80	0.00	10.51
60	2,2,4-TRIMETHYLPENTANE	1.090	1.051	3.6	80	0.00	10.59
61	1,4-DIOXANE	0.157	0.164	-4.5	80	0.00	10.57
62	HEPTANE	0.372	0.328	11.8	74	0.00	10.94
63	METHYL METHACRYLATE	0.215	0.232	-7.9	79	0.00	10.84
64	METHYL ISOBUTYL KETONE	0.201	0.212	-5.5	79	0.00	11.69
65	cis-1,3-DICHLOROPROPENE	0.452	0.442	2.2	78	0.00	11.63
66	TOLUENE	0.514	0.494	3.9	77	0.00	12.87
67	1,3-DICHLOROPROPANE	0.403	0.406	-0.7	79	0.00	12.91
68	trans-1,3-DICHLOROPROPENE	0.412	0.409	0.7	77	0.00	12.31
69	1,1,2-TRICHLOROETHANE	0.281	0.278	1.1	80	0.00	12.52
70 I	CHLOROBENZENE-D5	1.000	1.000	0.0	81	0.00	15.25
71	2-HEXANONE	0.512	0.587	-14.6	79	0.00	13.27
72	ETHYL METHACRYLATE	0.745	0.801	-7.5	79	0.00	13.30
73	TETRACHLOROETHYLENE	0.807	0.640	20.7	67	0.00	14.37
74	DIBROMOCHLOROMETHANE	1.302	1.204	7.5	74	0.00	13.41
75	1,2-DIBROMOETHANE	1.034	0.968	6.4	76	0.00	13.73
76	OCTANE	1.057	0.909	14.0	73	0.00	14.24
77	1,1,1,2-TETRACHLOROETHANE	0.864	0.776	10.2	73	0.00	15.30
78	CHLOROBENZENE	1.456	1.317	9.5	76	0.00	15.31
79	ETHYLBENZENE	2.183	2.014	7.7	77	0.00	15.87
80	m,p-XYLENE	0.877	0.791	9.8	75	-0.02	16.12
81	o-XYLENE	0.840	0.768	8.6	76	0.00	16.81
82	STYRENE	1.290	1.186	8.1	74	0.00	16.66
83	NONANE	1.152	0.931	19.2	73	0.00	17.22
84	BROMOFORM	1.304	1.203	7.7	71	0.00	16.20
85 S	4-BROMOFLUOROBENZENE	1.289	1.264	1.9	78	0.00	17.50
86	1,1,2,2-TETRACHLOROETHANE	1.381	1.349	2.3	81	0.00	16.81
87	1,2,3-TRICHLOROPROPANE	1.019	0.921	9.6	77	0.00	17.00
88	ISOPROPYLBENZENE	2.491	2.233	10.4	75	0.00	17.72
89	BROMOBENZENE	1.277	1.127	11.7	77	0.00	17.81
90	2-CHLOROTOLUENE	0.699	0.613	12.3	71	0.00	18.45
91	n-PROPYLBENZENE	0.699	0.619	11.4	72	0.00	18.55
92	4-ETHYLTOLUENE	2.430	2.198	9.5	74	0.00	18.79
93	1,3,5-TRIMETHYLBENZENE	2.115	1.828	13.6	74	0.00	18.93
94	ALPHA-METHYLSTYRENE	1.082	0.970	10.4	70	0.00	19.18
95	tert-BUTYLBENZENE	0.476	0.416	12.6	71	0.00	19.53
96	1,2,4-TRIMETHYLBENZENE	2.098	1.941	7.5	76	0.00	19.55
97	m-DICHLOROBENZENE	1.689	1.440	14.7	72	0.00	19.74
98	BENZYL CHLORIDE	1.809	1.816	-0.4	73	0.00	19.73
99	p-DICHLOROBENZENE	1.732	1.344	22.4	71	0.00	19.84
100	sec-BUTYLBENZENE	0.582	0.498	14.4	70	0.00	19.94

Continuing Calibration Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V5W2196-CC2187
Lab FileID: 5W57222.D

101	1,2,3-TRIMETHYLBENZENE	2.185	1.923	12.0	74	0.00	20.16
102	p-ISOPROPYLTOLUENE	0.669	0.581	13.2	71	0.00	20.19
103	o-DICHLOROBENZENE	1.615	1.275	21.1	70	0.00	20.33
104	n-BUTYLBENZENE	0.650	0.568	12.6	69	0.00	20.79
105	HEXACHLOROETHANE	1.025	0.981	4.3	76	0.00	21.25
106	HEXACHLOROBUTADIENE	1.510	1.227	18.7	67	0.00	23.20
107	1,2,4-TRICHLOROBENZENE	1.354	1.090	19.5	64	0.00	23.06
108	NAPHTHALENE	3.030	2.637	13.0	68	0.00	22.74
109 I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	77	0.00	7.57
110	TVHC as equiv Pentane	6.921	5.987	13.5	76	0.00	5.14

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5w57044.D M5w2187.M Fri Mar 07 08:00:53 2025

6.9.8
6

Initial Calibration Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W405-ICC405
Lab FileID: 7W11240.D

Response Factor Report MS7W

Method : C:\msdchem\1\methods\M7W405.M (RTE Integrator)
Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

Calibration Files

0.04=7w11233.D 0.10=7w11234.D 0.20=7w11235.D 0.5 =7w11237.D
5.0 =7w11238.D 10 =7w11240.D 20 =7w11241.D 40 =7w11242.D
50 =7w11243.D =

Compound	0.04	0.10	0.20	0.5	5.0	10	20	40	50	Avg	%RSD
1) I BROMOCHLOROMETHANE	-----ISTD-----										
2) FREON 115										0.000	-1.00
3) FREON 152A											
	0.358	0.490	0.489	0.497	0.477	0.502	0.511	0.493	0.469	0.476	9.67
4) CHLORODIFLUOROMETHANE											
	0.230	0.259	0.239	0.254	0.228	0.245	0.248	0.243	0.229	0.242	4.56
5) CHLOROTRIFLUOROETHENE											
	0.964	1.190	1.217	1.200	1.155	1.229	1.224	1.188	1.114	1.165	7.17
6) DICHLORODIFLUOROMETHANE											
	2.070	2.643	2.595	2.579	2.476	2.598	2.602	2.515	2.360	2.493	7.24
7) PROPYLENE											
	0.852	0.749	0.673	0.667	0.573	0.614	0.613	0.598	0.566	0.656	14.20
8) 1-CHLORO-1,1-DIFLUOROETHANE											
	1.709	1.969	1.873	1.889	1.828	1.916	1.906	1.823	1.707	1.847	4.89
9) FREON 114											
	1.660	2.082	1.985	2.047	1.995	2.082	2.079	1.998	1.871	1.978	6.92
10) CHLOROMETHANE											
	0.322	0.328	0.258	0.242	0.230	0.246	0.245	0.237	0.223	0.259	14.95
11) VINYL CHLORIDE											
	0.668	0.831	0.867	0.863	0.846	0.880	0.891	0.864	0.816	0.836	8.03
12) 1,3-BUTADIENE											
	1.019	0.795	0.723	0.665	0.617	0.663	0.666	0.649	0.617	0.713	17.91
13) N-BUTANE											
	1.759	1.337	1.321	1.328	1.137	1.230	1.234	1.198	1.128	1.297	14.66
14) BROMOMETHANE											
	0.798	0.810	0.732	0.773	0.722	0.749	0.743	0.721	0.680	0.748	5.45
15) CHLOROETHANE											
	0.482	0.497	0.442	0.460	0.428	0.454	0.451	0.440	0.419	0.453	5.48
16) DICHLOROFLUOROMETHANE											
	1.519	1.902	1.861	1.820	1.723	1.818	1.817	1.751	1.659	1.763	6.66
17) ACETONITRILE											
	0.760	1.147	0.892	0.788	0.710	0.749	0.751	0.737	0.699	0.804	17.49
18) ACROLEIN											
	0.509	0.455	0.475	0.437	0.373	0.391	0.400	0.391	0.369	0.422	11.64
19) FREON 123											
	1.880	2.254	1.874	1.900	1.821	1.905	1.903	1.851	1.736	1.903	7.48
20) FREON 123A											
	1.119	1.367	1.211	1.199	1.151	1.206	1.194	1.142	1.073	1.185	6.95
21) TRICHLOROFLUOROMETHANE											
	1.733	2.305	2.304	2.256	2.230	2.351	2.318	2.202	2.062	2.196	8.81
22) ISOPROPYL ALCOHOL											
	1.943	2.205	2.115	1.850	1.728	1.776	1.760	1.689	1.606	1.853	10.77
23) ACETONE											

Initial Calibration Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W405-ICC405
Lab FileID: 7W11240.D

		0.884	0.907	0.725	0.505	0.461	0.452	0.451	0.433	0.412	0.581	34.59
24)	PENTANE											
		0.949	0.984	0.897	0.926	0.828	0.883	0.883	0.851	0.807	0.890	6.41
25)	IODOMETHANE											
		1.610	2.061	2.056	2.117	2.075	2.143	2.120	2.021	1.908	2.012	8.26
26)	1,1-DICHLOROETHYLENE											
		1.084	1.061	0.827	0.865	0.797	0.822	0.817	0.789	0.742	0.867	13.97
27)	CARBON DISULFIDE											
		1.793	2.247	2.149	2.282	2.124	2.278	2.279	2.204	2.078	2.159	7.24
28)	ETHANOL											
					0.712	0.544	0.465	0.459	0.441	0.422	0.507	21.46
29)	BROMOETHENE											
		0.796	0.896	0.817	0.785	0.774	0.811	0.798	0.769	0.724	0.797	5.82
30)	ACRYLONITRILE											
		1.070	1.045	0.677	0.601	0.611	0.607	0.584	0.557		0.719	29.44
31)	METHYLENE CHLORIDE											
			1.103	0.887	0.720	0.737	0.730	0.700	0.662		0.791	19.53
32)	3-CHLOROPROPENE											
		0.367	0.466	0.441	0.418	0.398	0.415	0.416	0.402	0.383	0.412	7.19
33)	FREON 113											
		1.040	1.382	1.429	1.352	1.349	1.390	1.367	1.290	1.215	1.313	9.11
34)	TRANS-1,2-DICHLOROETHENE											
		1.026	1.040	0.880	0.894	0.861	0.882	0.885	0.851	0.805	0.903	8.69
35)	TERTIARY BUTYL ALCOHOL											
		1.867	2.312	2.318	2.257	2.132	2.170	2.149	2.043	1.927	2.131	7.50
36)	METHYL TERTIARY BUTYL ETHER											
		2.390	2.737	2.720	2.638	2.514	2.646	2.640	2.540	2.407	2.581	4.89
37)	TETRAHYDROFURAN											
		0.213	0.399	0.418	0.436	0.425	0.436	0.441	0.427	0.405	0.400	17.86
38)	HEXANE											
		1.805	1.948	1.655	1.655	1.532	1.618	1.602	1.545	1.462	1.647	9.03
39)	VINYL ACETATE											
		0.167	0.286	0.249	0.266	0.228	0.252	0.257	0.253	0.240	0.244	13.54
40)	1,1-DICHLOROETHANE											
		1.300	1.725	1.650	1.713	1.592	1.695	1.687	1.629	1.544	1.615	8.17
41)	METHYL ETHYL KETONE											
		0.319	0.514	0.485	0.451	0.436	0.463	0.462	0.446	0.423	0.444	12.19
42)	CIS-1,2-DICHLOROETHENE											
		0.735	1.032	0.948	0.992	0.910	0.973	0.969	0.926	0.882	0.930	9.21
43)	DIISOPROPYL ETHER											
		0.384	0.533	0.516	0.468	0.438	0.458	0.457	0.436	0.414	0.456	10.20
44)	ETHYL ACETATE											
		0.245	0.336	0.336	0.330	0.321	0.334	0.328	0.314	0.296	0.316	9.33
45)	METHYL ACRYLATE											
		1.427	2.048	1.928	1.944	1.819	1.936	1.931	1.857	1.763	1.850	9.66
46)	CHLOROFORM											
		1.631	1.901	1.879	1.953	1.798	1.920	1.885	1.793	1.690	1.828	5.98
47)	2,4-DIMETHYLPENTANE											
		1.747	2.005	1.839	1.846	1.731	1.867	1.848	1.795	1.710	1.821	4.92
48)	1,1,1-TRICHLOROETHANE											
		1.636	2.058	1.974	2.049	1.936	2.054	2.060	1.992	1.881	1.960	6.97
49)	CARBON TETRACHLORIDE											
		1.268	1.747	1.831	1.989	2.007	2.200	2.225	2.167	2.063	1.944	15.47
50)	1,2-DICHLOROETHANE											
		1.129	1.422	1.318	1.446	1.355	1.452	1.456	1.404	1.334	1.368	7.59
51)	BENZENE											
		2.592	2.909	2.787	2.706	2.537	2.707	2.705	2.614	2.478	2.671	4.93
52)	I 1,4-DIFLUOROBENZENE	-----ISTD-----										
53)	CYCLOHEXANE											

Initial Calibration Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W405-ICC405
Lab FileID: 7W11240.D

		0.212	0.240	0.240	0.246	0.226	0.247	0.246	0.240	0.228	0.236	4.99
54)	2,3-DIMETHYLPENTANE	0.131	0.127	0.121	0.129	0.117	0.127	0.125	0.123	0.117	0.124	3.96
55)	TRICHLOROETHENE	0.194	0.269	0.255	0.272	0.252	0.269	0.268	0.260	0.248	0.254	9.52
56)	1,2-DICHLOROPROPANE	0.185	0.227	0.223	0.222	0.211	0.226	0.226	0.221	0.210	0.217	6.21
57)	DIBROMOMETHANE	0.265	0.280	0.230	0.244	0.214	0.236	0.233	0.229	0.218	0.239	8.92
58)	ETHYL ACRYLATE	0.346	0.447	0.496	0.453	0.459	0.493	0.495	0.489	0.469	0.461	10.22
59)	BROMODICHLOROMETHANE	0.315	0.409	0.389	0.406	0.402	0.442	0.438	0.432	0.412	0.405	9.41
60)	2,2,4-TRIMETHYLPENTANE	0.836	1.033	0.940	0.998	0.952	0.999	0.997	0.973	0.926	0.962	6.01
61)	1,4-DIOXANE	0.085	0.148	0.205	0.141	0.151	0.143	0.139	0.134	0.129	0.142	21.73
62)	HEPTANE	0.269	0.380	0.342	0.362	0.322	0.349	0.348	0.342	0.328	0.338	9.25
63)	METHYL METHACRYLATE	0.216	0.237	0.237	0.214	0.204	0.216	0.215	0.212	0.203	0.217	5.75
64)	METHYL ISOBUTYL KETONE	0.148	0.203	0.298	0.192	0.202	0.198	0.197	0.193	0.184	0.202	19.77
65)	CIS-1,3-DICHLOROPROPENE	0.252	0.333	0.325	0.344	0.340	0.370	0.372	0.369	0.352	0.340	10.89
66)	TOLUENE	0.706	0.762	0.707	0.693	0.667	0.718	0.719	0.709	0.677	0.707	3.87
67)	1,3-DICHLOROPROPANE	0.261	0.324	0.327	0.341	0.328	0.355	0.354	0.348	0.332	0.330	8.59
68)	TRANS-1,3-DICHLOROPROPENE	0.231	0.325	0.302	0.311	0.314	0.347	0.352	0.353	0.338	0.319	11.89
69)	1,1,2-TRICHLOROETHANE	0.164	0.195	0.200	0.200	0.191	0.203	0.203	0.200	0.191	0.194	6.39
70)	2-HEXANONE	0.203	0.278	0.613	0.275	0.378	0.280	0.279	0.272	0.257	0.315	38.27
71)	ETHYL METHACRYLATE	0.403	0.397	0.397	0.361	0.363	0.376	0.378	0.370	0.354	0.378	4.72
72)	TETRACHLOROETHENE	0.239	0.277	0.267	0.276	0.264	0.277	0.275	0.273	0.261	0.268	4.58
73)	DIBROMOCHLOROMETHANE	0.289	0.392	0.387	0.409	0.396	0.445	0.458	0.458	0.439	0.408	12.93
74)	1,2-DIBROMOETHANE	0.265	0.356	0.338	0.360	0.357	0.388	0.388	0.384	0.365	0.356	10.74
75)	OCTANE	0.440	0.501	0.503	0.481	0.449	0.490	0.492	0.488	0.466	0.479	4.72
76)	I CHLOROBENZENE-D5	-----ISTD-----										
77)	1,1,1,2-TETRACHLOROETHANE	0.233	0.339	0.312	0.329	0.314	0.347	0.347	0.339	0.317	0.320	11.00
78)	CHLOROBENZENE	0.470	0.579	0.568	0.615	0.577	0.625	0.625	0.608	0.571	0.582	8.24
79)	ETHYLBENZENE	1.042	1.027	1.003	0.984	0.923	1.000	0.995	0.975	0.915	0.985	4.33
80)	M,P-XYLENE	0.699	0.841	0.767	0.794	0.742	0.801	0.798	0.779	0.728	0.772	5.61
81)	O-XYLENE	0.739	0.837	0.777	0.774	0.744	0.801	0.798	0.777	0.731	0.775	4.39
82)	STYRENE	0.392	0.537	0.524	0.555	0.562	0.617	0.619	0.615	0.579	0.555	12.69
83)	NONANE											

Initial Calibration Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W405-ICC405
Lab FileID: 7W11240.D

		0.527	0.522	0.529	0.541	0.514	0.553	0.553	0.544	0.510	0.533	3.00
84)	BROMOFORM	0.261	0.370	0.358	0.381	0.371	0.425	0.437	0.434	0.412	0.383	14.29
85)	1,1,2,2-TETRACHLOROETHANE	0.408	0.523	0.506	0.528	0.514	0.557	0.557	0.542	0.509	0.516	8.68
86)	1,2,3-TRICHLOROPROPANE	0.306	0.394	0.401	0.424	0.421	0.454	0.451	0.441	0.414	0.412	10.86
87)	4-BROMOFLUOROBENZENE	0.717	0.717	0.716	0.714	0.738	0.726	0.732	0.737	0.735	0.726	1.34
88)	ISOPROPYLBENZENE	0.229	0.294	0.293	0.305	0.295	0.320	0.320	0.314	0.296	0.296	9.27
89)	BROMOBENZENE	0.460	0.573	0.537	0.562	0.542	0.589	0.589	0.576	0.542	0.552	7.22
90)	2-CHLOROTOLUENE	0.173	0.276	0.265	0.268	0.274	0.299	0.299	0.294	0.277	0.269	14.21
91)	N-PROPYLBENZENE	0.199	0.292	0.284	0.299	0.311	0.335	0.335	0.334	0.314	0.300	14.10
92)	4-ETHYLTOLUENE	0.852	1.057	1.025	1.051	1.077	1.163	1.177	1.172	1.119	1.077	9.43
93)	1,3,5-TRIMETHYLBENZENE	0.724	0.880	0.876	0.896	0.910	0.970	0.982	0.987	0.932	0.906	8.90
94)	ALPHA-METHYLSTYRENE	0.329	0.422	0.430	0.445	0.473	0.512	0.523	0.530	0.503	0.463	13.93
95)	TERT-BUTYLBENZENE	0.175	0.209	0.215	0.216	0.222	0.233	0.234	0.231	0.217	0.217	8.36
96)	1,2,4-TRIMETHYLBENZENE	0.742	0.878	0.883	0.906	0.922	0.978	0.993	0.996	0.928	0.914	8.56
97)	BENZYL CHLORIDE	0.612	0.672	0.698	0.715	0.809	0.917	0.953	0.979	0.931	0.810	17.20
98)	M-DICHLOROBENZENE	0.464	0.593	0.602	0.618	0.620	0.678	0.691	0.694	0.653	0.624	11.36
99)	P-DICHLOROBENZENE	0.457	0.594	0.585	0.595	0.598	0.654	0.670	0.674	0.635	0.607	10.84
100)	O-DICHLOROBENZENE	0.484	0.575	0.578	0.583	0.574	0.624	0.636	0.641	0.606	0.589	8.07
101)	SEC-BUTYLBENZENE	0.197	0.251	0.263	0.274	0.279	0.295	0.298	0.296	0.278	0.270	11.75
102)	1,2,3-TRIMETHYLBENZENE	0.735	0.879	0.889	0.912	0.911	0.975	0.992	1.004	0.945	0.916	8.85
103)	P-ISOPROPYLTOLUENE	0.221	0.290	0.300	0.296	0.308	0.326	0.327	0.324	0.304	0.300	10.79
104)	N-BUTYLBENZENE	0.210	0.269	0.273	0.293	0.301	0.322	0.328	0.330	0.309	0.293	12.98
105)	HEXACHLOROETHANE	0.229	0.317	0.322	0.323	0.353	0.396	0.407	0.406	0.385	0.349	16.65
106)	HEXACHLOROBUTADIENE	0.344	0.402	0.406	0.420	0.436	0.474	0.504	0.492	0.463	0.438	11.65
107)	1,2,4-TRICHLOROBENZENE	0.367	0.354	0.367	0.400	0.515	0.587	0.632	0.664	0.643	0.503	26.18
108)	NAPHTHALENE	0.748	0.720	0.782	1.090	1.286	1.342	1.494	1.474	1.117	29.42	
109)	I BROMOCHLOROMETHANE (A -----ISTD-----											
110)	TVHC as equiv Pentane	4.273	4.626	4.148	4.425	4.130	4.221	4.321	4.157	3.915	4.246	4.74

(#) = Out of Range ### Number of calibration levels exceeded format ###

M7W405.M

Sun Dec 29 19:44:19 2024

Initial Calibration Verification

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W405-ICV405
Lab FileID: 7W11247.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\7w\7w11247.D
Acq On : 28 Dec 2024 6:36 pm
Sample : icv405-10
Misc : MS74014,v7w405,,,,,1
MS Integration Params: rteint.p

Vial: 5
Operator: benk
Inst : MS7W
Multiplr: 1.00

Method : C:\msdchem\1\methods\M7W405.M (RTE Integrator)
Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
Last Update : Sun Dec 29 19:41:17 2024
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	98	0.00	3.23
2 T	FREON 115						
3 T	FREON 152A	0.476	0.512	-7.6	100	0.00	1.62
4 T	CHLORODIFLUOROMETHANE	0.242	0.255	-5.4	102	0.00	1.64
5 T	CHLOROTRIFLUOROETHENE	1.165	1.242	-6.6	99	0.00	1.65
6 T	DICHLORODIFLUOROMETHANE	2.493	2.658	-6.6	100	0.00	1.67
7 T	PROPYLENE	0.656	0.627	4.4	100	0.00	1.65
8 T	1-CHLORO-1,1-DIFLUOROETHA	1.847	1.976	-7.0	101	0.00	1.70
9 T	FREON 114	1.978	2.125	-7.4	100	0.00	1.74
10 T	CHLOROMETHANE	0.259	0.246	5.0	98	0.00	1.71
11 T	VINYL CHLORIDE	0.836	0.889	-6.3	99	0.00	1.77
12 t	1,3-BUTADIENE	0.713	0.676	5.2	100	0.00	1.81
13 T	N-BUTANE	1.297	1.274	1.8	101	0.00	1.82
14 T	BROMOMETHANE	0.748	0.771	-3.1	100	0.00	1.88
15 T	CHLOROETHANE	0.453	0.464	-2.4	100	0.00	1.93
16 T	DICHLOROFLUOROMETHANE	1.763	1.915	-8.6	103	0.00	1.96
17 T	ACETONITRILE	0.804	0.794	1.2	104	0.00	2.02
18 T	ACROLEIN	0.422	0.421	0.2	105	0.00	2.06
19 T	FREON 123	1.903	1.900	0.2	97	0.00	2.08
20 T	FREON 123A	1.185	1.123	5.2	91	0.00	2.09
21 T	TRICHLOROFLUOROMETHANE	2.196	2.404	-9.5	100	0.00	2.16
22 T	ISOPROPYL ALCOHOL	1.853	1.854	-0.1	102	0.00	2.17
23 T	ACETONE	0.581	0.468	19.4	101	0.00	2.10
24 T	PENTANE	0.890	0.900	-1.1	100	0.00	2.27
25 T	IODOMETHANE	2.012	2.204	-9.5	100	0.00	2.33
26 T	1,1-DICHLOROETHYLENE	0.867	0.846	2.4	101	0.00	2.36
27 T	CARBON DISULFIDE	2.159	2.476	-14.7	106	0.00	2.49
28 T	ETHANOL	0.507	0.416	17.9	87	0.00	1.96
29 T	BROMOETHENE	0.797	0.815	-2.3	98	0.00	2.03
30 T	ACRYLONITRILE	0.719	0.624	13.2	100	0.00	2.24
31 T	METHYLENE CHLORIDE	0.791	0.772	2.4	102	0.00	2.40
32 T	3-CHLOROPROPENE	0.412	0.431	-4.6	101	0.00	2.44
33 T	FREON 113	1.313	1.457	-11.0	102	0.00	2.49
34 T	TRANS-1,2-DICHLOROETHENE	0.903	0.928	-2.8	103	0.00	2.72
35 T	TERTIARY BUTYL ALCOHOL	2.131	2.441	-14.5	110	0.00	2.37
36 t	METHYL TERTIARY BUTYL ETH	2.581	2.684	-4.0	99	0.00	2.82
37 T	TETRAHYDROFURAN	0.400	0.465	-16.3	104	0.00	3.51
38 T	HEXANE	1.647	1.605	2.6	97	0.00	3.28
39 T	VINYL ACETATE	0.244	0.267	-9.4	104	0.00	2.86
40 T	1,1-DICHLOROETHANE	1.615	1.714	-6.1	99	0.00	2.79
41 T	METHYL ETHYL KETONE	0.444	0.463	-4.3	98	0.00	2.96
42 T	CIS-1,2-DICHLOROETHENE	0.930	0.993	-6.8	100	0.00	3.15

Initial Calibration Verification

Page 2 of 3

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W405-ICV405
Lab FileID: 7W11247.D

43	T	DIISOPROPYL ETHER	0.456	0.469	-2.9	100	0.00	3.28
44	T	ETHYL ACETATE	0.316	0.332	-5.1	97	0.00	3.28
45	T	METHYL ACRYLATE	1.850	1.989	-7.5	100	0.00	3.27
46	T	CHLOROFORM	1.828	1.993	-9.0	101	0.00	3.30
47	T	2,4-DIMETHYLPENTANE	1.821	1.866	-2.5	98	0.00	3.79
48	T	1,1,1-TRICHLOROETHANE	1.960	2.104	-7.3	100	0.00	3.86
49	T	CARBON TETRACHLORIDE	1.944	2.247	-15.6	100	0.00	4.28
50	T	1,2-DICHLOROETHANE	1.368	1.485	-8.6	100	0.00	3.70
51	t	BENZENE	2.671	2.775	-3.9	100	0.00	4.17
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	98	0.00	4.49
53	T	CYCLOHEXANE	0.236	0.249	-5.5	99	0.00	4.38
54	T	2,3-DIMETHYLPENTANE	0.124	0.128	-3.2	99	0.00	4.63
55	T	TRICHLOROETHENE	0.254	0.275	-8.3	100	0.00	5.06
56	T	1,2-DICHLOROPROPANE	0.217	0.232	-6.9	100	0.00	4.83
57	T	DIBROMOMETHANE	0.239	0.245	-2.5	102	0.00	4.79
58	T	ETHYL ACRYLATE	0.461	0.505	-9.5	100	0.00	4.95
59	T	BROMODICHLOROMETHANE	0.405	0.449	-10.9	100	0.00	5.01
60	T	2,2,4-TRIMETHYLPENTANE	0.962	1.005	-4.5	98	0.00	5.16
61	T	1,4-DIOXANE	0.142	0.144	-1.4	99	0.00	5.08
62	T	HEPTANE	0.338	0.350	-3.6	98	0.00	5.47
63	T	METHYL METHACRYLATE	0.217	0.220	-1.4	100	0.00	5.37
64	T	METHYL ISOBUTYL KETONE	0.202	0.200	1.0	98	0.00	6.09
65	T	CIS-1,3-DICHLOROPROPENE	0.340	0.352	-3.5	93	0.00	5.99
66	T	TOLUENE	0.707	0.721	-2.0	98	0.00	7.19
67	T	1,3-DICHLOROPROPANE	0.330	0.363	-10.0	100	0.00	7.25
68	T	TRANS-1,3-DICHLOROPROPENE	0.319	0.352	-10.3	99	0.00	6.66
69	T	1,1,2-TRICHLOROETHANE	0.194	0.210	-8.2	101	0.00	6.82
70	T	2-HEXANONE	0.315	0.284	9.8	99	0.00	7.76
71	T	ETHYL METHACRYLATE	0.378	0.386	-2.1	100	0.00	7.89
72	T	TETRACHLOROETHENE	0.268	0.281	-4.9	99	0.00	8.91
73	T	DIBROMOCHLOROMETHANE	0.408	0.456	-11.8	100	0.00	7.72
74	T	1,2-DIBROMOETHANE	0.356	0.398	-11.8	100	0.00	8.06
75	T	OCTANE	0.479	0.491	-2.5	98	0.00	9.06
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00	10.03
77	T	1,1,1,2-TETRACHLOROETHANE	0.320	0.353	-10.3	100	0.00	10.12
78	T	CHLOROBENZENE	0.582	0.631	-8.4	99	0.00	10.11
79	t	ETHYLBENZENE	0.985	1.014	-2.9	99	0.00	10.99
80	t	M,P-XYLENE	0.772	0.809	-4.8	99	0.00	11.42
81	t	O-XYLENE	0.775	0.802	-3.5	98	0.00	12.34
82	T	STYRENE	0.555	0.620	-11.7	99	0.00	12.14
83	T	NONANE	0.533	0.556	-4.3	99	0.00	13.47
84	T	BROMOFORM	0.383	0.409	-6.8	94	0.00	11.23
85	T	1,1,2,2-TETRACHLOROETHANE	0.516	0.575	-11.4	101	0.00	12.36
86	T	1,2,3-TRICHLOROPROPANE	0.412	0.465	-12.9	101	0.00	12.64
87	S	4-BROMOFLUOROBENZENE	0.726	0.730	-0.6	99	0.00	13.38
88	T	ISOPROPYLBENZENE	0.296	0.327	-10.5	100	0.00	13.86
89	T	BROMOBENZENE	0.552	0.606	-9.8	101	0.00	13.72
90	T	2-CHLOROTOLUENE	0.269	0.308	-14.5	101	0.00	14.86
91	T	N-PROPYLBENZENE	0.300	0.338	-12.7	99	0.00	15.20
92	T	4-ETHYLTOLUENE	1.077	1.184	-9.9	100	0.00	15.64
93	T	1,3,5-TRIMETHYLBENZENE	0.906	0.984	-8.6	99	0.00	15.91
94	T	ALPHA-METHYLSTYRENE	0.463	0.536	-15.8	103	0.00	16.21
95	T	TERT-BUTYLBENZENE	0.217	0.237	-9.2	100	0.00	16.53
96	T	1,2,4-TRIMETHYLBENZENE	0.914	0.996	-9.0	100	0.00	16.54
97	T	BENZYL CHLORIDE	0.810	0.987	-21.9	106	0.00	16.63
98	T	M-DICHLOROBENZENE	0.624	0.693	-11.1	100	0.00	16.60
99	T	P-DICHLOROBENZENE	0.607	0.670	-10.4	100	0.00	16.69
100	T	O-DICHLOROBENZENE	0.589	0.639	-8.5	100	0.00	17.01

6.9.10

6

Initial Calibration Verification

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W405-ICV405
Lab FileID: 7W11247.D

101	T	SEC-BUTYLBENZENE	0.270	0.303	-12.2	101	0.00	16.84
102	T	1,2,3-TRIMETHYLBENZENE	0.916	0.994	-8.5	100	0.00	16.96
103	T	P-ISOPROPYLTOLUENE	0.300	0.334	-11.3	100	0.00	17.03
104	T	N-BUTYLBENZENE	0.293	0.323	-10.2	98	0.00	17.40
105	T	HEXACHLOROETHANE	0.349	0.399	-14.3	99	0.00	17.57
106	T	HEXACHLOROBUTADIENE	0.438	0.460	-5.0	95	0.00	18.63
107	T	1,2,4-TRICHLOROBENZENE	0.503	0.577	-14.7	96	0.00	18.32
108	T	NAPHTHALENE	1.117	1.318	-18.0	100	0.00	18.37
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	98	0.00	3.23
110		TVHC as equiv Pentane	4.246	4.421	-4.1	102	0.00	2.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w11240.D M7W405.M Mon Dec 30 11:08:54 2024

6.9.10
6

Continuing Calibration Summary

Page 1 of 3

Job Number: JE5976
 Account: EAENYS EA Engineering
 Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W425-CC405
 Lab FileID: 7W11898.D

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\k...2025\V7W425\7w11898.D Vial: 4
 Acq On : 18 Jan 2025 11:57 pm Operator: benk
 Sample : cc405-10 Inst : MS7W
 Misc : MS88797,v7w425,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W405.M (RTE Integrator)
 Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 Last Update : Sun Dec 29 19:41:17 2024
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	83	0.00	3.23
2 T	FREON 115			-----NA-----			
3 T	FREON 152A	0.476	0.507	-6.5	84	0.00	1.63
4 T	CHLORODIFLUOROMETHANE	0.242	0.242	0.0	82	0.00	1.64
5 T	CHLOROTRIFLUOROETHENE	1.165	1.171	-0.5	79	0.00	1.65
6 T	DICHLORODIFLUOROMETHANE	2.493	3.045	-22.1	97	0.00	1.67
7 T	PROPYLENE	0.656	0.540	17.7	73	0.00	1.65
8 T	1-CHLORO-1,1-DIFLUOROETHA	1.847	2.426	-31.3#	105	0.00	1.70
9 T	FREON 114	1.978	2.459	-24.3	98	0.00	1.74
10 T	CHLOROMETHANE	0.259	0.284	-9.7	96	0.00	1.71
11 T	VINYL CHLORIDE	0.836	1.025	-22.6	97	0.00	1.77
12 t	1,3-BUTADIENE	0.713	0.706	1.0	88	0.00	1.81
13 T	N-BUTANE	1.297	1.193	8.0	80	0.00	1.83
14 T	BROMOMETHANE	0.748	0.865	-15.6	96	0.00	1.88
15 T	CHLOROETHANE	0.453	0.528	-16.6	96	0.00	1.93
16 T	DICHLOROFLUOROMETHANE	1.763	2.098	-19.0	96	0.00	1.96
17 T	ACETONITRILE	0.804	0.691	14.1	77	0.00	2.03
18 T	ACROLEIN	0.422	0.413	2.1	88	0.00	2.06
19 T	FREON 123	1.903	2.217	-16.5	97	0.00	2.08
20 T	FREON 123A	1.185	1.238	-4.5	85	0.00	2.10
21 T	TRICHLOROFLUOROMETHANE	2.196	2.518	-14.7	89	0.00	2.16
22 T	ISOPROPYL ALCOHOL	1.853	1.648	11.1	77	0.00	2.18
23 T	ACETONE	0.581	0.493	15.1	91	0.00	2.10
24 T	PENTANE	0.890	0.806	9.4	76	0.00	2.27
25 T	IODOMETHANE	2.012	2.117	-5.2	82	0.00	2.33
26 T	1,1-DICHLOROETHYLENE	0.867	0.909	-4.8	92	0.00	2.36
27 T	CARBON DISULFIDE	2.159	2.803	-29.8	102	0.00	2.50
28 T	ETHANOL	0.507	0.444	12.4	79	0.00	1.96
29 T	BROMOETHENE	0.797	0.867	-8.8	89	0.00	2.03
30 T	ACRYLONITRILE	0.719	0.622	13.5	84	0.00	2.24
31 T	METHYLENE CHLORIDE	0.791	0.873	-10.4	98	0.00	2.40
32 T	3-CHLOROPROPENE	0.412	0.480	-16.5	96	0.00	2.44
33 T	FREON 113	1.313	1.447	-10.2	86	0.00	2.50
34 T	TRANS-1,2-DICHLOROETHENE	0.903	0.963	-6.6	91	0.00	2.72
35 T	TERTIARY BUTYL ALCOHOL	2.131	2.207	-3.6	84	0.00	2.38
36 t	METHYL TERTIARY BUTYL ETH	2.581	2.257	12.6	71	0.00	2.83
37 T	TETRAHYDROFURAN	0.400	0.462	-15.5	88	0.00	3.51
38 T	HEXANE	1.647	1.669	-1.3	86	0.00	3.28
39 T	VINYL ACETATE	0.244	0.216	11.5	71	0.00	2.87
40 T	1,1-DICHLOROETHANE	1.615	1.502	7.0	74	0.00	2.79
41 T	METHYL ETHYL KETONE	0.444	0.487	-9.7	87	0.00	2.96
42 T	CIS-1,2-DICHLOROETHENE	0.930	0.986	-6.0	84	0.00	3.15

Continuing Calibration Summary

Page 2 of 3

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W425-CC405
Lab FileID: 7W11898.D

43	T	DIISOPROPYL ETHER	0.456	0.485	-6.4	88	0.00	3.28
44	T	ETHYL ACETATE	0.316	0.339	-7.3	84	0.00	3.29
45	T	METHYL ACRYLATE	1.850	1.963	-6.1	84	0.00	3.27
46	T	CHLOROFORM	1.828	2.022	-10.6	87	0.00	3.30
47	T	2,4-DIMETHYLPENTANE	1.821	1.875	-3.0	83	0.00	3.79
48	T	1,1,1-TRICHLOROETHANE	1.960	2.000	-2.0	81	0.00	3.87
49	T	CARBON TETRACHLORIDE	1.944	1.975	-1.6	74	0.00	4.28
50	T	1,2-DICHLOROETHANE	1.368	1.499	-9.6	86	0.00	3.70
51	t	BENZENE	2.671	2.827	-5.8	87	0.00	4.17
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	84	0.00	4.50
53	T	CYCLOHEXANE	0.236	0.254	-7.6	86	0.00	4.38
54	T	2,3-DIMETHYLPENTANE	0.124	0.130	-4.8	86	0.00	4.64
55	T	TRICHLOROETHENE	0.254	0.269	-5.9	84	0.00	5.06
56	T	1,2-DICHLOROPROPANE	0.217	0.233	-7.4	86	0.00	4.83
57	T	DIBROMOMETHANE	0.239	0.224	6.3	79	0.00	4.79
58	T	ETHYL ACRYLATE	0.461	0.475	-3.0	81	0.00	4.95
59	T	BROMODICHLOROMETHANE	0.405	0.451	-11.4	85	0.00	5.01
60	T	2,2,4-TRIMETHYLPENTANE	0.962	1.003	-4.3	84	0.00	5.16
61	T	1,4-DIOXANE	0.142	0.143	-0.7	84	0.00	5.08
62	T	HEPTANE	0.338	0.327	3.3	78	0.00	5.47
63	T	METHYL METHACRYLATE	0.217	0.216	0.5	83	0.00	5.37
64	T	METHYL ISOBUTYL KETONE	0.202	0.202	0.0	85	0.00	6.10
65	T	CIS-1,3-DICHLOROPROPENE	0.340	0.360	-5.9	81	0.00	5.99
66	T	TOLUENE	0.707	0.722	-2.1	84	0.00	7.19
67	T	1,3-DICHLOROPROPANE	0.330	0.365	-10.6	86	0.00	7.25
68	T	TRANS-1,3-DICHLOROPROPENE	0.319	0.322	-0.9	78	0.00	6.67
69	T	1,1,2-TRICHLOROETHANE	0.194	0.213	-9.8	88	0.00	6.82
70	T	2-HEXANONE	0.315	0.284	9.8	85	0.00	7.76
71	T	ETHYL METHACRYLATE	0.378	0.372	1.6	83	0.00	7.89
72	T	TETRACHLOROETHENE	0.268	0.264	1.5	80	0.00	8.91
73	T	DIBROMOCHLOROMETHANE	0.408	0.417	-2.2	78	0.00	7.72
74	T	1,2-DIBROMOETHANE	0.356	0.374	-5.1	81	0.00	8.06
75	T	OCTANE	0.479	0.458	4.4	78	0.00	9.06
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	83	0.00	10.04
77	T	1,1,1,2-TETRACHLOROETHANE	0.320	0.308	3.8	74	0.00	10.12
78	T	CHLOROBENZENE	0.582	0.617	-6.0	82	0.00	10.11
79	t	ETHYLBENZENE	0.985	1.004	-1.9	83	0.00	10.99
80	t	M,P-XYLENE	0.772	0.815	-5.6	84	0.00	11.42
81	t	O-XYLENE	0.775	0.813	-4.9	84	0.00	12.35
82	T	STYRENE	0.555	0.600	-8.1	81	0.00	12.14
83	T	NONANE	0.533	0.530	0.6	80	0.00	13.47
84	T	BROMOFORM	0.383	0.397	-3.7	78	0.00	11.23
85	T	1,1,2,2-TETRACHLOROETHANE	0.516	0.609	-18.0	91	0.00	12.36
86	T	1,2,3-TRICHLOROPROPANE	0.412	0.479	-16.3	88	0.00	12.64
87	S	4-BROMOFLUOROBENZENE	0.726	0.776	-6.9	89	0.00	13.38
88	T	ISOPROPYLBENZENE	0.296	0.304	-2.7	79	0.00	13.86
89	T	BROMOBENZENE	0.552	0.604	-9.4	85	0.00	13.72
90	T	2-CHLOROTOLUENE	0.269	0.283	-5.2	79	0.00	14.86
91	T	N-PROPYLBENZENE	0.300	0.319	-6.3	79	0.00	15.20
92	T	4-ETHYLTOLUENE	1.077	1.169	-8.5	84	0.00	15.64
93	T	1,3,5-TRIMETHYLBENZENE	0.906	0.970	-7.1	83	0.00	15.91
94	T	ALPHA-METHYLSTYRENE	0.463	0.503	-8.6	82	0.00	16.21
95	T	TERT-BUTYLBENZENE	0.217	0.223	-2.8	79	0.00	16.53
96	T	1,2,4-TRIMETHYLBENZENE	0.914	1.028	-12.5	87	0.00	16.54
97	T	BENZYL CHLORIDE	0.810	0.717	11.5	65	0.00	16.63
98	T	M-DICHLOROBENZENE	0.624	0.653	-4.6	80	0.00	16.60
99	T	P-DICHLOROBENZENE	0.607	0.642	-5.8	82	0.00	16.69
100	T	O-DICHLOROBENZENE	0.589	0.622	-5.6	83	0.00	17.01

6.9.11

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Continuing Calibration Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W425-CC405
Lab FileID: 7W11898.D

101	T	SEC-BUTYLBENZENE	0.270	0.287	-6.3	81	0.00	16.84
102	T	1,2,3-TRIMETHYLBENZENE	0.916	1.019	-11.2	87	0.00	16.95
103	T	P-ISOPROPYLTOLUENE	0.300	0.318	-6.0	81	0.00	17.03
104	T	N-BUTYLBENZENE	0.293	0.313	-6.8	81	0.00	17.39
105	T	HEXACHLOROETHANE	0.349	0.353	-1.1	74	0.00	17.57
106	T	HEXACHLOROBUTADIENE	0.438	0.545	-24.4	95	0.00	18.63
107	T	1,2,4-TRICHLOROBENZENE	0.503	0.595	-18.3	84	0.00	18.31
108	T	NAPHTHALENE	1.117	1.271	-13.8	82	0.00	18.36
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	83	0.00	3.23
110		TVHC as equiv Pentane	4.246	4.087	3.7	80	0.00	2.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w11240.D M7W405.M Mon Jan 20 11:46:53 2025

6.9.11
6

Continuing Calibration Summary

Page 1 of 3

Job Number: JE5976
 Account: EAENYS EA Engineering
 Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W437-CC405
 Lab FileID: 7W12289.D

Evaluate Continuing Calibration Report

Data File : X:\Dayton VOA GCMS\g...2025\V7W437\7w12289.D Vial: 2
 Acq On : 31 Jan 2025 10:58 am Operator: williamc
 Sample : cc405-10 Inst : MS7W
 Misc : MS89099,v7w437,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W405.M (RTE Integrator)
 Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 Last Update : Sun Dec 29 19:41:17 2024
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	94	0.00	3.23
2 T	FREON 115			-----NA-----			
3 T	FREON 152A	0.476	0.458	3.8	85	0.00	1.63
4 T	CHLORODIFLUOROMETHANE	0.242	0.235	2.9	90	0.00	1.64
5 T	CHLOROTRIFLUOROETHENE	1.165	1.143	1.9	87	0.00	1.65
6 T	DICHLORODIFLUOROMETHANE	2.493	2.852	-14.4	103	0.00	1.67
7 T	PROPYLENE	0.656	0.487	25.8	74	0.00	1.65
8 T	1-CHLORO-1,1-DIFLUOROETHA	1.847	2.179	-18.0	106	0.00	1.70
9 T	FREON 114	1.978	2.377	-20.2	107	0.00	1.74
10 T	CHLOROMETHANE	0.259	0.238	8.1	91	0.00	1.71
11 T	VINYL CHLORIDE	0.836	0.916	-9.6	97	0.00	1.77
12 t	1,3-BUTADIENE	0.713	0.643	9.8	91	0.00	1.81
13 T	N-BUTANE	1.297	1.138	12.3	87	0.00	1.83
14 T	BROMOMETHANE	0.748	0.837	-11.9	105	0.00	1.88
15 T	CHLOROETHANE	0.453	0.483	-6.6	100	0.00	1.94
16 T	DICHLOROFLUOROMETHANE	1.763	1.968	-11.6	101	0.00	1.96
17 T	ACETONITRILE	0.804	0.668	16.9	84	0.00	2.03
18 T	ACROLEIN	0.422	0.331	21.6	79	0.00	2.06
19 T	FREON 123	1.903	2.157	-13.3	106	0.00	2.08
20 T	FREON 123A	1.185	1.240	-4.6	96	0.00	2.10
21 T	TRICHLOROFLUOROMETHANE	2.196	2.508	-14.2	100	0.00	2.16
22 T	ISOPROPYL ALCOHOL	1.853	1.596	13.9	84	0.00	2.18
23 T	ACETONE	0.581	0.444	23.6	92	0.00	2.10
24 T	PENTANE	0.890	0.766	13.9	81	0.00	2.27
25 T	IODOMETHANE	2.012	2.293	-14.0	100	0.00	2.33
26 T	1,1-DICHLOROETHYLENE	0.867	0.898	-3.6	102	0.00	2.36
27 T	CARBON DISULFIDE	2.159	2.606	-20.7	107	0.00	2.50
28 T	ETHANOL	0.507	0.517	-2.0	104	0.00	1.96
29 T	BROMOETHENE	0.797	0.852	-6.9	98	0.00	2.04
30 T	ACRYLONITRILE	0.719	0.589	18.1	90	0.00	2.24
31 T	METHYLENE CHLORIDE	0.791	0.838	-5.9	106	0.00	2.40
32 T	3-CHLOROPROPENE	0.412	0.453	-10.0	102	0.00	2.44
33 T	FREON 113	1.313	1.579	-20.3	106	0.00	2.50
34 T	TRANS-1,2-DICHLOROETHENE	0.903	0.909	-0.7	97	0.00	2.72
35 T	TERTIARY BUTYL ALCOHOL	2.131	2.051	3.8	88	0.00	2.38
36 t	METHYL TERTIARY BUTYL ETH	2.581	2.449	5.1	87	0.00	2.83
37 T	TETRAHYDROFURAN	0.400	0.431	-7.7	93	0.00	3.51
38 T	HEXANE	1.647	1.520	7.7	88	0.00	3.28
39 T	VINYL ACETATE	0.244	0.232	4.9	86	0.00	2.86
40 T	1,1-DICHLOROETHANE	1.615	1.593	1.4	88	0.00	2.79
41 T	METHYL ETHYL KETONE	0.444	0.450	-1.4	91	0.00	2.96
42 T	CIS-1,2-DICHLOROETHENE	0.930	0.952	-2.4	92	0.00	3.15

Continuing Calibration Summary

Page 2 of 3

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W437-CC405
Lab FileID: 7W12289.D

43	T	DIISOPROPYL ETHER	0.456	0.431	5.5	88	0.00	3.28
44	T	ETHYL ACETATE	0.316	0.315	0.3	88	0.00	3.29
45	T	METHYL ACRYLATE	1.850	1.780	3.8	86	0.00	3.27
46	T	CHLOROFORM	1.828	1.988	-8.8	97	0.00	3.30
47	T	2,4-DIMETHYLPENTANE	1.821	1.681	7.7	84	0.00	3.79
48	T	1,1,1-TRICHLOROETHANE	1.960	2.001	-2.1	91	0.00	3.87
49	T	CARBON TETRACHLORIDE	1.944	2.015	-3.7	86	0.00	4.28
50	T	1,2-DICHLOROETHANE	1.368	1.407	-2.9	91	0.00	3.70
51	t	BENZENE	2.671	2.682	-0.4	93	0.00	4.17
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	94	0.00	4.50
53	T	CYCLOHEXANE	0.236	0.240	-1.7	92	0.00	4.38
54	T	2,3-DIMETHYLPENTANE	0.124	0.122	1.6	91	0.00	4.63
55	T	TRICHLOROETHENE	0.254	0.269	-5.9	94	0.00	5.06
56	T	1,2-DICHLOROPROPANE	0.217	0.211	2.8	88	0.00	4.83
57	T	DIBROMOMETHANE	0.239	0.233	2.5	93	0.00	4.79
58	T	ETHYL ACRYLATE	0.461	0.434	5.9	83	0.00	4.95
59	T	BROMODICHLOROMETHANE	0.405	0.441	-8.9	94	0.00	5.01
60	T	2,2,4-TRIMETHYLPENTANE	0.962	0.903	6.1	85	0.00	5.16
61	T	1,4-DIOXANE	0.142	0.137	3.5	91	0.00	5.08
62	T	HEPTANE	0.338	0.297	12.1	80	0.00	5.47
63	T	METHYL METHACRYLATE	0.217	0.204	6.0	89	0.00	5.37
64	T	METHYL ISOBUTYL KETONE	0.202	0.182	9.9	86	0.00	6.10
65	T	CIS-1,3-DICHLOROPROPENE	0.340	0.348	-2.4	89	0.00	5.99
66	T	TOLUENE	0.707	0.693	2.0	91	0.00	7.19
67	T	1,3-DICHLOROPROPANE	0.330	0.354	-7.3	94	0.00	7.25
68	T	TRANS-1,3-DICHLOROPROPENE	0.319	0.318	0.3	87	0.00	6.67
69	T	1,1,2-TRICHLOROETHANE	0.194	0.206	-6.2	96	0.00	6.82
70	T	2-HEXANONE	0.315	0.256	18.7	86	0.00	7.76
71	T	ETHYL METHACRYLATE	0.378	0.353	6.6	89	0.00	7.89
72	T	TETRACHLOROETHENE	0.268	0.283	-5.6	96	0.00	8.91
73	T	DIBROMOCHLOROMETHANE	0.408	0.429	-5.1	91	0.00	7.72
74	T	1,2-DIBROMOETHANE	0.356	0.375	-5.3	91	0.00	8.06
75	T	OCTANE	0.479	0.415	13.4	80	0.00	9.06
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	95	0.00	10.03
77	T	1,1,1,2-TETRACHLOROETHANE	0.320	0.330	-3.1	90	0.00	10.12
78	T	CHLOROBENZENE	0.582	0.607	-4.3	92	0.00	10.11
79	t	ETHYLBENZENE	0.985	0.965	2.0	91	0.00	10.99
80	t	M,P-XYLENE	0.772	0.786	-1.8	93	0.00	11.42
81	t	O-XYLENE	0.775	0.797	-2.8	94	0.00	12.34
82	T	STYRENE	0.555	0.579	-4.3	89	0.00	12.14
83	T	NONANE	0.533	0.483	9.4	83	0.00	13.47
84	T	BROMOFORM	0.383	0.431	-12.5	96	0.00	11.23
85	T	1,1,2,2-TETRACHLOROETHANE	0.516	0.585	-13.4	99	0.00	12.36
86	T	1,2,3-TRICHLOROPROPANE	0.412	0.460	-11.7	96	0.00	12.64
87	S	4-BROMOFLUOROBENZENE	0.726	0.778	-7.2	101	0.00	13.39
88	T	ISOPROPYLBENZENE	0.296	0.305	-3.0	90	0.00	13.86
89	T	BROMOBENZENE	0.552	0.584	-5.8	94	0.00	13.73
90	T	2-CHLOROTOLUENE	0.269	0.279	-3.7	88	0.00	14.86
91	T	N-PROPYLBENZENE	0.300	0.316	-5.3	89	0.00	15.20
92	T	4-ETHYLTOLUENE	1.077	1.156	-7.3	94	0.00	15.64
93	T	1,3,5-TRIMETHYLBENZENE	0.906	0.965	-6.5	94	0.00	15.91
94	T	ALPHA-METHYLSTYRENE	0.463	0.502	-8.4	93	0.00	16.21
95	T	TERT-BUTYLBENZENE	0.217	0.240	-10.6	98	0.00	16.53
96	T	1,2,4-TRIMETHYLBENZENE	0.914	1.031	-12.8	100	0.00	16.54
97	T	BENZYL CHLORIDE	0.810	0.741	8.5	77	0.00	16.63
98	T	M-DICHLOROBENZENE	0.624	0.716	-14.7	100	0.00	16.60
99	T	P-DICHLOROBENZENE	0.607	0.698	-15.0	101	0.00	16.69
100	T	O-DICHLOROBENZENE	0.589	0.682	-15.8	104	0.00	17.01

6.9.12

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Continuing Calibration Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W437-CC405
Lab FileID: 7W12289.D

101	T	SEC-BUTYLBENZENE	0.270	0.310	-14.8	99	0.00	16.84
102	T	1,2,3-TRIMETHYLBENZENE	0.916	1.025	-11.9	100	0.00	16.96
103	T	P-ISOPROPYLTOLUENE	0.300	0.344	-14.7	100	0.00	17.03
104	T	N-BUTYLBENZENE	0.293	0.338	-15.4	99	0.00	17.40
105	T	HEXACHLOROETHANE	0.349	0.364	-4.3	87	0.00	17.57
106	T	HEXACHLOROBUTADIENE	0.438	0.557	-27.2	111	0.00	18.63
107	T	1,2,4-TRICHLOROBENZENE	0.503	0.636	-26.4	103	0.00	18.32
108	T	NAPHTHALENE	1.117	1.310	-17.3	96	0.00	18.37
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	94	0.00	3.23
110		TVHC as equiv Pentane	4.246	3.900	8.1	86	0.00	2.27

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w11240.D M7W405.M Fri Jan 31 21:36:12 2025

6.9.12
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Continuing Calibration Summary

Page 1 of 3

Job Number: JE5976
 Account: EAENYS EA Engineering
 Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W465-CC405
 Lab FileID: 7W13219.D

Evaluate Continuing Calibration Report

Data File : R:\MSAIR\Done\2025\3...2025\V7W465\7w13219.D Vial: 1
 Acq On : 6 Mar 2025 12:29 pm Operator: williamc
 Sample : cc405-10 Inst : MS7W
 Misc : MS89682,v7w465,,,,,1 Multiplr: 1.00
 MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W405.M (RTE Integrator)
 Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 Last Update : Sun Dec 29 19:41:17 2024
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	BROMOCHLOROMETHANE	1.000	1.000	0.0	101	0.00	3.23
2 T	FREON 115			-----NA-----			
3 T	FREON 152A	0.476	0.502	-5.5	101	0.00	1.63
4 T	CHLORODIFLUOROMETHANE	0.242	0.207	14.5	85	0.00	1.64
5 T	CHLOROTRIFLUOROETHENE	1.165	1.230	-5.6	101	0.00	1.65
6 T	DICHLORODIFLUOROMETHANE	2.493	2.346	5.9	91	0.00	1.67
7 T	PROPYLENE	0.656	0.640	2.4	106	0.00	1.65
8 T	1-CHLORO-1,1-DIFLUOROETHA	1.847	1.476	20.1	78	0.00	1.70
9 T	FREON 114	1.978	1.909	3.5	93	0.00	1.74
10 T	CHLOROMETHANE	0.259	0.239	7.7	98	0.00	1.71
11 T	VINYL CHLORIDE	0.836	0.881	-5.4	101	0.00	1.77
12 t	1,3-BUTADIENE	0.713	0.666	6.6	102	0.00	1.81
13 T	N-BUTANE	1.297	1.124	13.3	92	0.00	1.83
14 T	BROMOMETHANE	0.748	0.750	-0.3	101	0.00	1.88
15 T	CHLOROETHANE	0.453	0.459	-1.3	102	0.00	1.93
16 T	DICHLOROFLUOROMETHANE	1.763	1.653	6.2	92	0.00	1.96
17 T	ACETONITRILE	0.804	0.717	10.8	97	0.00	2.03
18 T	ACROLEIN	0.422	0.403	4.5	104	0.00	2.06
19 T	FREON 123	1.903	1.903	0.0	101	0.00	2.08
20 T	FREON 123A	1.185	1.160	2.1	97	0.00	2.10
21 T	TRICHLOROFLUOROMETHANE	2.196	1.987	9.5	85	0.00	2.16
22 T	ISOPROPYL ALCOHOL	1.853	1.710	7.7	97	0.00	2.18
23 T	ACETONE	0.581	0.474	18.4	106	0.00	2.10
24 T	PENTANE	0.890	0.834	6.3	95	0.00	2.28
25 T	IODOMETHANE	2.012	2.142	-6.5	101	0.00	2.34
26 T	1,1-DICHLOROETHYLENE	0.867	0.827	4.6	102	0.00	2.37
27 T	CARBON DISULFIDE	2.159	2.089	3.2	93	0.00	2.50
28 T	ETHANOL	0.507	0.437	13.8	95	0.00	1.96
29 T	BROMOETHENE	0.797	0.790	0.9	99	0.00	2.04
30 T	ACRYLONITRILE	0.719	0.592	17.7	98	0.00	2.25
31 T	METHYLENE CHLORIDE	0.791	0.726	8.2	100	0.00	2.40
32 T	3-CHLOROPROPENE	0.412	0.368	10.7	90	0.00	2.44
33 T	FREON 113	1.313	1.386	-5.6	101	0.00	2.50
34 T	TRANS-1,2-DICHLOROETHENE	0.903	0.862	4.5	99	0.00	2.73
35 T	TERTIARY BUTYL ALCOHOL	2.131	1.688	20.8	79	0.00	2.38
36 t	METHYL TERTIARY BUTYL ETH	2.581	2.219	14.0	85	0.00	2.83
37 T	TETRAHYDROFURAN	0.400	0.418	-4.5	97	0.00	3.51
38 T	HEXANE	1.647	1.647	0.0	103	0.00	3.28
39 T	VINYL ACETATE	0.244	0.225	7.8	90	0.00	2.87
40 T	1,1-DICHLOROETHANE	1.615	1.633	-1.1	97	0.00	2.80
41 T	METHYL ETHYL KETONE	0.444	0.445	-0.2	97	0.00	2.96
42 T	CIS-1,2-DICHLOROETHENE	0.930	0.949	-2.0	99	0.00	3.16

Continuing Calibration Summary

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W465-CC405
Lab FileID: 7W13219.D

43	T	DIISOPROPYL ETHER	0.456	0.449	1.5	99	0.00	3.29
44	T	ETHYL ACETATE	0.316	0.324	-2.5	98	0.00	3.29
45	T	METHYL ACRYLATE	1.850	1.853	-0.2	97	0.00	3.28
46	T	CHLOROFORM	1.828	1.756	3.9	92	0.00	3.31
47	T	2,4-DIMETHYLPENTANE	1.821	1.871	-2.7	101	0.00	3.79
48	T	1,1,1-TRICHLOROETHANE	1.960	1.761	10.2	87	0.00	3.87
49	T	CARBON TETRACHLORIDE	1.944	1.856	4.5	85	0.00	4.29
50	T	1,2-DICHLOROETHANE	1.368	1.206	11.8	84	0.00	3.71
51	t	BENZENE	2.671	2.616	2.1	98	0.00	4.18
52	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	97	0.00	4.50
53	T	CYCLOHEXANE	0.236	0.249	-5.5	97	0.00	4.39
54	T	2,3-DIMETHYLPENTANE	0.124	0.125	-0.8	96	0.00	4.64
55	T	TRICHLOROETHENE	0.254	0.265	-4.3	95	0.00	5.07
56	T	1,2-DICHLOROPROPANE	0.217	0.234	-7.8	100	0.00	4.84
57	T	DIBROMOMETHANE	0.239	0.258	-7.9	106	0.00	4.80
58	T	ETHYL ACRYLATE	0.461	0.475	-3.0	93	0.00	4.95
59	T	BROMODICHLOROMETHANE	0.405	0.410	-1.2	90	0.00	5.02
60	T	2,2,4-TRIMETHYLPENTANE	0.962	1.042	-8.3	101	0.00	5.16
61	T	1,4-DIOXANE	0.142	0.145	-2.1	98	0.00	5.08
62	T	HEPTANE	0.338	0.352	-4.1	97	0.00	5.47
63	T	METHYL METHACRYLATE	0.217	0.205	5.5	92	0.00	5.37
64	T	METHYL ISOBUTYL KETONE	0.202	0.203	-0.5	99	0.00	6.10
65	T	CIS-1,3-DICHLOROPROPENE	0.340	0.331	2.6	86	0.00	5.99
66	T	TOLUENE	0.707	0.708	-0.1	95	0.00	7.19
67	T	1,3-DICHLOROPROPANE	0.330	0.339	-2.7	92	0.00	7.25
68	T	TRANS-1,3-DICHLOROPROPENE	0.319	0.290	9.1	81	0.00	6.67
69	T	1,1,2-TRICHLOROETHANE	0.194	0.206	-6.2	98	0.00	6.83
70	T	2-HEXANONE	0.315	0.283	10.2	98	0.00	7.76
71	T	ETHYL METHACRYLATE	0.378	0.349	7.7	90	0.00	7.89
72	T	TETRACHLOROETHENE	0.268	0.290	-8.2	101	0.00	8.91
73	T	DIBROMOCHLOROMETHANE	0.408	0.448	-9.8	97	0.00	7.72
74	T	1,2-DIBROMOETHANE	0.356	0.381	-7.0	95	0.00	8.06
75	T	OCTANE	0.479	0.491	-2.5	97	0.00	9.06
76	I	CHLOROBENZENE-D5	1.000	1.000	0.0	96	0.00	10.04
77	T	1,1,1,2-TETRACHLOROETHANE	0.320	0.331	-3.4	92	0.00	10.13
78	T	CHLOROBENZENE	0.582	0.638	-9.6	98	0.00	10.11
79	t	ETHYLBENZENE	0.985	0.970	1.5	94	0.00	10.99
80	t	M,P-XYLENE	0.772	0.768	0.5	92	0.00	11.42
81	t	O-XYLENE	0.775	0.765	1.3	92	0.00	12.35
82	T	STYRENE	0.555	0.606	-9.2	95	0.00	12.13
83	T	NONANE	0.533	0.544	-2.1	95	0.00	13.47
84	T	BROMOFORM	0.383	0.455	-18.8	103	0.00	11.23
85	T	1,1,2,2-TETRACHLOROETHANE	0.516	0.568	-10.1	98	0.00	12.36
86	T	1,2,3-TRICHLOROPROPANE	0.412	0.426	-3.4	91	0.00	12.64
87	S	4-BROMOFLUOROBENZENE	0.726	0.726	0.0	96	0.00	13.39
88	T	ISOPROPYLBENZENE	0.296	0.325	-9.8	98	0.00	13.86
89	T	BROMOBENZENE	0.552	0.545	1.3	89	0.00	13.72
90	T	2-CHLOROTOLUENE	0.269	0.301	-11.9	97	0.00	14.86
91	T	N-PROPYLBENZENE	0.300	0.338	-12.7	97	0.00	15.20
92	T	4-ETHYLTOLUENE	1.077	1.129	-4.8	94	0.00	15.64
93	T	1,3,5-TRIMETHYLBENZENE	0.906	0.934	-3.1	93	0.00	15.91
94	T	ALPHA-METHYLSTYRENE	0.463	0.512	-10.6	96	0.00	16.22
95	T	TERT-BUTYLBENZENE	0.217	0.233	-7.4	97	0.00	16.53
96	T	1,2,4-TRIMETHYLBENZENE	0.914	0.937	-2.5	92	0.00	16.54
97	T	BENZYL CHLORIDE	0.810	0.662	18.3	70	0.00	16.63
98	T	M-DICHLOROBENZENE	0.624	0.701	-12.3	100	0.00	16.60
99	T	P-DICHLOROBENZENE	0.607	0.680	-12.0	100	0.00	16.69
100	T	O-DICHLOROBENZENE	0.589	0.645	-9.5	100	0.00	17.01

6.9.13

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Continuing Calibration Summary

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Sample: V7W465-CC405
Lab FileID: 7W13219.D

101	T	SEC-BUTYLBENZENE	0.270	0.293	-8.5	96	0.00	16.84
102	T	1,2,3-TRIMETHYLBENZENE	0.916	0.923	-0.8	91	0.00	16.95
103	T	P-ISOPROPYLTOLUENE	0.300	0.320	-6.7	95	0.00	17.03
104	T	N-BUTYLBENZENE	0.293	0.313	-6.8	94	0.00	17.39
105	T	HEXACHLOROETHANE	0.349	0.363	-4.0	88	0.00	17.57
106	T	HEXACHLOROBUTADIENE	0.438	0.510	-16.4	104	0.00	18.63
107	T	1,2,4-TRICHLOROBENZENE	0.503	0.559	-11.1	92	0.00	18.32
108	T	NAPHTHALENE	1.117	1.152	-3.1	86	0.00	18.37
109	I	BROMOCHLOROMETHANE (A)	1.000	1.000	0.0	101	0.00	3.23
110		TVHC as equiv Pentane	4.246	3.889	8.4	93	0.00	2.28

(#) = Out of Range SPCC's out = 0 CCC's out = 0
7w11240.D M7W405.M Sat Mar 08 05:29:57 2025

6.9.13
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Run Sequence Report

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Job Number: JE5976**Account:** EAENYS EA Engineering**Project:** Sulphur Springs Road, Binghamton, NY

Run ID: V5W2144	Method: TO-15	Instrument ID: GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2144-BFB	5W55993.D	01/08/25 23:56	n/a	BFB Tune
V5W2144-IC2144	5W55994.D	01/09/25 00:36	n/a	Initial cal 0.04
V5W2144-IC2144	5W55995.D	01/09/25 01:16	n/a	Initial cal 0.1
V5W2144-IC2144	5W55996.D	01/09/25 01:59	n/a	Initial cal 0.2
V5W2144-IC2144	5W56001.D	01/09/25 05:39	n/a	Initial cal 5
V5W2144-ICC2144	5W56002.D	01/09/25 06:20	n/a	Initial cal 10
V5W2144-IC2144	5W56003.D	01/09/25 07:03	n/a	Initial cal 20
V5W2144-IC2144	5W56004.D	01/09/25 07:49	n/a	Initial cal 40
V5W2144-IC2144	5W56005.D	01/09/25 08:36	n/a	Initial cal 50
V5W2144-IC2144	5W56013.D	01/09/25 15:02	n/a	Initial cal 0.5
V5W2144-ICV2144	5W56014.D	01/09/25 15:42	n/a	Initial cal verification 10

6.10.1
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Run Sequence Report

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Run ID: V5W2165	Method: TO-15	Instrument ID: GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2165-BFB	5W56522.D	01/30/25 12:01	n/a	BFB Tune
V5W2165-CC2144	5W56523.D	01/30/25 12:42	n/a	Continuing cal 10
V5W2165-BS	5W56524.D	01/30/25 14:19	n/a	Blank Spike
V5W2165-BSD	5W56525.D	01/30/25 15:00	n/a	Blank Spike Duplicate
V5W2165-MB	5W56528.D	01/30/25 17:21	n/a	Method Blank
V5W2165-SCC	5W56529.D	01/30/25 18:26	n/a	Summa Cleaning Certification
V5W2165-SCC	5W56533.D	01/30/25 21:32	n/a	Summa Cleaning Certification
JE4766-1	5W56534.D	01/30/25 22:18	n/a	(used for QC only; not part of job JE5976)
JE4766-1DUP	5W56535.D	01/30/25 23:05	n/a	Duplicate
ZZZZZZ	5W56536.D	01/30/25 23:51	n/a	(unrelated sample)
ZZZZZZ	5W56537.D	01/31/25 00:38	n/a	(unrelated sample)
ZZZZZZ	5W56538.D	01/31/25 01:19	n/a	(unrelated sample)
ZZZZZZ	5W56539.D	01/31/25 02:01	n/a	(unrelated sample)
ZZZZZZ	5W56540.D	01/31/25 02:42	n/a	(unrelated sample)

Run Sequence Report

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Run ID: V5W2187	Method: TO-15	Instrument ID: GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2187-BFB	5W57029.D	02/23/25 01:15	n/a	BFB Tune
V5W2187-IC2187	5W57030.D	02/23/25 02:03	n/a	Initial cal 0.04
V5W2187-IC2187	5W57031.D	02/23/25 02:53	n/a	Initial cal 0.1
V5W2187-IC2187	5W57037.D	02/23/25 08:09	n/a	Initial cal 0.2
V5W2187-IC2187	5W57043.D	02/23/25 13:23	n/a	Initial cal 5
V5W2187-ICC2187	5W57044.D	02/23/25 14:13	n/a	Initial cal 10
V5W2187-IC2187	5W57045.D	02/23/25 15:05	n/a	Initial cal 20
V5W2187-IC2187	5W57046.D	02/23/25 16:01	n/a	Initial cal 40
V5W2187-IC2187	5W57047.D	02/23/25 16:59	n/a	Initial cal 50
V5W2187-BFB2	5W57058.D	02/24/25 06:59	n/a	BFB Tune
V5W2187-IC2187	5W57059.D	02/24/25 07:51	n/a	Initial cal 0.5
V5W2187-ICV2187	5W57061.D	02/24/25 09:33	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Run ID: V5W2193	Method: TO-15	Instrument ID: GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2193-BFB	5W57160.D	03/03/25 12:10	n/a	BFB Tune
V5W2193-CC2187	5W57161.D	03/03/25 13:00	n/a	Continuing cal 10
V5W2193-BS	5W57163.D	03/03/25 15:15	n/a	Blank Spike
V5W2193-BSD	5W57164.D	03/03/25 16:09	n/a	Blank Spike Duplicate
V5W2193-MB	5W57166.D	03/03/25 17:55	n/a	Method Blank
JE5976-1	5W57167.D	03/03/25 18:51	n/a	754020-IA-1-2182025
JE5976-1DUP	5W57169.D	03/04/25 10:09	n/a	Duplicate
ZZZZZZ	5W57170.D	03/04/25 10:58	n/a	(unrelated sample)
ZZZZZZ	5W57170R.D	03/04/25 10:58	n/a	(unrelated sample)
ZZZZZZ	5W57171.D	03/04/25 11:57	n/a	(unrelated sample)

Run Sequence Report

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Run ID: V5W2194	Method: TO-15	Instrument ID: GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2194-BFB	5W57173.D	03/04/25 16:43	n/a	BFB Tune
V5W2194-CC2187	5W57175.D	03/04/25 18:53	n/a	Continuing cal 10
V5W2194-BS	5W57176.D	03/04/25 19:43	n/a	Blank Spike
V5W2194-BSD	5W57177.D	03/04/25 20:33	n/a	Blank Spike Duplicate
V5W2194-MB	5W57179.D	03/04/25 22:19	n/a	Method Blank
JE5976-3	5W57180.D	03/04/25 23:15	n/a	754020-IA-2-2182025
JE5976-3DUP	5W57181.D	03/05/25 00:11	n/a	Duplicate
JE5976-5	5W57182.D	03/05/25 01:06	n/a	754020-IA-3-2182025
JE5976-6	5W57183.D	03/05/25 02:00	n/a	754020-DUP-1-2182025
JE5976-8	5W57184.D	03/05/25 02:54	n/a	754020-IA-4-2182025
JE5976-11	5W57185.D	03/05/25 03:48	n/a	754020-IA-5-2182025
JE5976-12	5W57186.D	03/05/25 04:40	n/a	754020-DUP-2-2182025
JE5976-15	5W57187.D	03/05/25 05:31	n/a	754020-IA-6-2182025
ZZZZZZ	5W57188.D	03/05/25 06:23	n/a	(unrelated sample)
ZZZZZZ	5W57189.D	03/05/25 07:15	n/a	(unrelated sample)
ZZZZZZ	5W57190.D	03/05/25 08:01	n/a	(unrelated sample)
ZZZZZZ	5W57191.D	03/05/25 08:48	n/a	(unrelated sample)
ZZZZZZ	5W57192.D	03/05/25 09:34	n/a	(unrelated sample)
ZZZZZZ	5W57193.D	03/05/25 10:21	n/a	(unrelated sample)
JE5976-5	5W57194.D	03/05/25 11:07	n/a	754020-IA-3-2182025

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Run Sequence Report

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Run ID: V5W2196	Method: TO-15	Instrument ID: GCMS5W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V5W2196-BFB	5W57221.D	03/06/25 12:27	n/a	BFB Tune
V5W2196-CC2187	5W57222.D	03/06/25 13:10	n/a	Continuing cal 10
V5W2196-BS	5W57223.D	03/06/25 14:01	n/a	Blank Spike
V5W2196-BSD	5W57224.D	03/06/25 14:44	n/a	Blank Spike Duplicate
V5W2196-MB	5W57226.D	03/06/25 16:24	n/a	Method Blank
ZZZZZZ	5W57227.D	03/06/25 17:12	n/a	(unrelated sample)
ZZZZZZ	5W57228.D	03/06/25 18:01	n/a	(unrelated sample)
JE5791-3	5W57229.D	03/06/25 18:50	n/a	(used for QC only; not part of job JE5976)
JE5791-3DUP	5W57230.D	03/06/25 19:39	n/a	Duplicate
ZZZZZZ	5W57231.D	03/06/25 20:27	n/a	(unrelated sample)
ZZZZZZ	5W57232.D	03/06/25 21:16	n/a	(unrelated sample)
ZZZZZZ	5W57233.D	03/06/25 22:05	n/a	(unrelated sample)
ZZZZZZ	5W57234.D	03/06/25 22:48	n/a	(unrelated sample)
ZZZZZZ	5W57235.D	03/06/25 23:31	n/a	(unrelated sample)
ZZZZZZ	5W57236.D	03/07/25 00:16	n/a	(unrelated sample)
ZZZZZZ	5W57237.D	03/07/25 00:59	n/a	(unrelated sample)
ZZZZZZ	5W57238.D	03/07/25 01:42	n/a	(unrelated sample)
JE5976-6	5W57239.D	03/07/25 02:25	n/a	754020-DUP-1-2182025
ZZZZZZ	5W57243.D	03/07/25 05:21	n/a	(unrelated sample)
ZZZZZZ	5W57244.D	03/07/25 06:10	n/a	(unrelated sample)
ZZZZZZ	5W57245.D	03/07/25 06:58	n/a	(unrelated sample)
ZZZZZZ	5W57246.D	03/07/25 07:47	n/a	(unrelated sample)
ZZZZZZ	5W57247.D	03/07/25 08:36	n/a	(unrelated sample)
ZZZZZZ	5W57248.D	03/07/25 09:43	n/a	(unrelated sample)

Run Sequence Report

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Run ID: V7W405	Method: TO-15	Instrument ID: GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W405-BFB	7W11232.D	12/28/24 08:40	n/a	BFB Tune
V7W405-IC405	7W11233.D	12/28/24 09:16	n/a	Initial cal 0.04
V7W405-IC405	7W11234.D	12/28/24 09:53	n/a	Initial cal 0.10
V7W405-IC405	7W11235.D	12/28/24 10:32	n/a	Initial cal 0.20
V7W405-IC405	7W11237.D	12/28/24 11:51	n/a	Initial cal 0.50
V7W405-IC405	7W11238.D	12/28/24 12:34	n/a	Initial cal 5
V7W405-ICC405	7W11240.D	12/28/24 13:47	n/a	Initial cal 10
V7W405-IC405	7W11241.D	12/28/24 14:25	n/a	Initial cal 20
V7W405-IC405	7W11242.D	12/28/24 15:08	n/a	Initial cal 40
V7W405-IC405	7W11243.D	12/28/24 15:52	n/a	Initial cal 50
V7W405-ICV405	7W11247.D	12/28/24 18:36	n/a	Initial cal verification 10

Run Sequence Report

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Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Run ID: V7W425	Method: TO-15	Instrument ID: GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W425-BFB	7W11896.D	01/18/25 22:23	n/a	BFB Tune
V7W425-CC405	7W11898.D	01/18/25 23:57	n/a	Continuing cal 10
V7W425-BS	7W11899.D	01/19/25 00:35	n/a	Blank Spike
V7W425-BSD	7W11900.D	01/19/25 01:14	n/a	Blank Spike Duplicate
V7W425-MB	7W11902.D	01/19/25 02:36	n/a	Method Blank
V7W425-SCC	7W11903.D	01/19/25 03:19	n/a	Summa Cleaning Certification
V7W425-SCC	7W11904.D	01/19/25 04:04	n/a	Summa Cleaning Certification
ZZZZZZ	7W11905.D	01/19/25 04:41	n/a	(unrelated sample)
ZZZZZZ	7W11906.D	01/19/25 05:25	n/a	(unrelated sample)
JE3878-3	7W11907.D	01/19/25 06:11	n/a	(used for QC only; not part of job JE5976)
JE3878-3DUP	7W11908.D	01/19/25 06:55	n/a	Duplicate
ZZZZZZ	7W11909.D	01/19/25 07:40	n/a	(unrelated sample)
ZZZZZZ	7W11910.D	01/19/25 08:24	n/a	(unrelated sample)
ZZZZZZ	7W11911.D	01/19/25 09:08	n/a	(unrelated sample)
ZZZZZZ	7W11912.D	01/19/25 09:52	n/a	(unrelated sample)
ZZZZZZ	7W11914.D	01/19/25 11:27	n/a	(unrelated sample)
ZZZZZZ	7W11915.D	01/19/25 12:11	n/a	(unrelated sample)
ZZZZZZ	7W11916.D	01/19/25 12:55	n/a	(unrelated sample)
ZZZZZZ	7W11917.D	01/19/25 13:41	n/a	(unrelated sample)
ZZZZZZ	7W11918.D	01/19/25 14:27	n/a	(unrelated sample)
ZZZZZZ	7W11919.D	01/19/25 15:12	n/a	(unrelated sample)
ZZZZZZ	7W11920.D	01/19/25 15:57	n/a	(unrelated sample)
ZZZZZZ	7W11921.D	01/19/25 16:43	n/a	(unrelated sample)
ZZZZZZ	7W11922.D	01/19/25 17:28	n/a	(unrelated sample)
ZZZZZZ	7W11923.D	01/19/25 18:13	n/a	(unrelated sample)
ZZZZZZ	7W11924.D	01/19/25 18:59	n/a	(unrelated sample)
ZZZZZZ	7W11925.D	01/19/25 19:43	n/a	(unrelated sample)
ZZZZZZ	7W11926.D	01/19/25 20:28	n/a	(unrelated sample)
ZZZZZZ	7W11927.D	01/19/25 21:07	n/a	(unrelated sample)

6.10.8

6

Run Sequence Report

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Run ID: V7W437	Method: TO-15	Instrument ID: GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W437-BFB	7W12288.D	01/31/25 10:20	n/a	BFB Tune
V7W437-CC405	7W12289.D	01/31/25 10:58	n/a	Continuing cal 10
V7W437-BS	7W12290.D	01/31/25 11:39	n/a	Blank Spike
V7W437-BSD	7W12291.D	01/31/25 12:18	n/a	Blank Spike Duplicate
V7W437-MB	7W12293.D	01/31/25 13:55	n/a	Method Blank
ZZZZZZ	7W12294.D	01/31/25 14:38	n/a	(unrelated sample)
V7W437-SCC	7W12295.D	01/31/25 15:22	n/a	Summa Cleaning Certification
JE4785-1	7W12296.D	01/31/25 16:01	n/a	(used for QC only; not part of job JE5976)
JE4785-1DUP	7W12297.D	01/31/25 16:40	n/a	Duplicate
ZZZZZZ	7W12298.D	01/31/25 17:20	n/a	(unrelated sample)
ZZZZZZ	7W12299.D	01/31/25 18:00	n/a	(unrelated sample)
ZZZZZZ	7W12300.D	01/31/25 18:40	n/a	(unrelated sample)
V7W437-SCC	7W12301.D	01/31/25 19:23	n/a	Summa Cleaning Certification
ZZZZZZ	7W12302.D	01/31/25 20:03	n/a	(unrelated sample)
V7W437-SCC	7W12303.D	01/31/25 20:47	n/a	Summa Cleaning Certification
ZZZZZZ	7W12304.D	01/31/25 21:25	n/a	(unrelated sample)
ZZZZZZ	7W12305.D	01/31/25 22:04	n/a	(unrelated sample)
ZZZZZZ	7W12306.D	01/31/25 22:44	n/a	(unrelated sample)
ZZZZZZ	7W12308.D	02/01/25 00:02	n/a	(unrelated sample)
ZZZZZZ	7W12309.D	02/01/25 00:40	n/a	(unrelated sample)
ZZZZZZ	7W12310.D	02/01/25 01:18	n/a	(unrelated sample)
ZZZZZZ	7W12311.D	02/01/25 01:58	n/a	(unrelated sample)
ZZZZZZ	7W12312.D	02/01/25 02:38	n/a	(unrelated sample)
ZZZZZZ	7W12313.D	02/01/25 03:17	n/a	(unrelated sample)
ZZZZZZ	7W12314.D	02/01/25 03:56	n/a	(unrelated sample)
ZZZZZZ	7W12316.D	02/01/25 05:13	n/a	(unrelated sample)
ZZZZZZ	7W12317.D	02/01/25 05:51	n/a	(unrelated sample)
ZZZZZZ	7W12318.D	02/01/25 06:29	n/a	(unrelated sample)

Run Sequence Report

Page 1 of 1

Job Number: JE5976
Account: EAENYS EA Engineering
Project: Sulphur Springs Road, Binghamton, NY

Run ID: V7W465	Method: TO-15	Instrument ID: GCMS7W

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V7W465-BFB	7W13218.D	03/06/25 11:52	n/a	BFB Tune
V7W465-CC405	7W13219.D	03/06/25 12:29	n/a	Continuing cal 10
V7W465-BS	7W13220.D	03/06/25 13:10	n/a	Blank Spike
V7W465-BSD	7W13221.D	03/06/25 13:47	n/a	Blank Spike Duplicate
V7W465-MB	7W13223.D	03/06/25 15:13	n/a	Method Blank
V7W465-SCC	7W13224.D	03/06/25 16:03	n/a	Summa Cleaning Certification
V7W465-SCC	7W13226.D	03/06/25 17:25	n/a	Summa Cleaning Certification
JE5976-2	7W13227.D	03/06/25 18:03	n/a	754020-SS-1-20250218
JE5976-2DUP	7W13228.D	03/06/25 18:42	n/a	Duplicate
V7W465-SCC	7W13229.D	03/06/25 19:25	n/a	Summa Cleaning Certification
ZZZZZZ	7W13232.D	03/06/25 21:22	n/a	(unrelated sample)
ZZZZZZ	7W13234.D	03/06/25 22:35	n/a	(unrelated sample)
JE5976-4	7W13238.D	03/07/25 01:12	n/a	754020-SS-2-20250218
JE5976-7	7W13239.D	03/07/25 01:50	n/a	754020-SS-3-20250218
JE5976-9	7W13240.D	03/07/25 02:29	n/a	754020-CS-4-20250218
JE5976-10	7W13241.D	03/07/25 03:13	n/a	754020-OA-1-2182025
JE5976-13	7W13242.D	03/07/25 03:52	n/a	754020-SS-5-20250218
JE5976-14	7W13243.D	03/07/25 04:32	n/a	754020-SS-6-20250218
ZZZZZZ	7W13244.D	03/07/25 05:11	n/a	(unrelated sample)
ZZZZZZ	7W13245.D	03/07/25 05:51	n/a	(unrelated sample)
ZZZZZZ	7W13246.D	03/07/25 06:31	n/a	(unrelated sample)
ZZZZZZ	7W13247.D	03/07/25 07:09	n/a	(unrelated sample)
ZZZZZZ	7W13249.D	03/07/25 08:29	n/a	(unrelated sample)
ZZZZZZ	7W13250.D	03/07/25 09:09	n/a	(unrelated sample)
ZZZZZZ	7W13251.D	03/07/25 09:53	n/a	(unrelated sample)
ZZZZZZ	7W13252.D	03/07/25 10:30	n/a	(unrelated sample)

6.10.10

6



Dayton, NJ

Section 7

MS Volatiles

Raw Data

7

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2193\
Data File : 5w57167.D
Acq On : 3 Mar 2025 6:51 pm
Operator : thomash
Sample : je5976-1 Inst : GCMS5W
Misc : MS89870,V5W2193,400,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 06:04:22 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

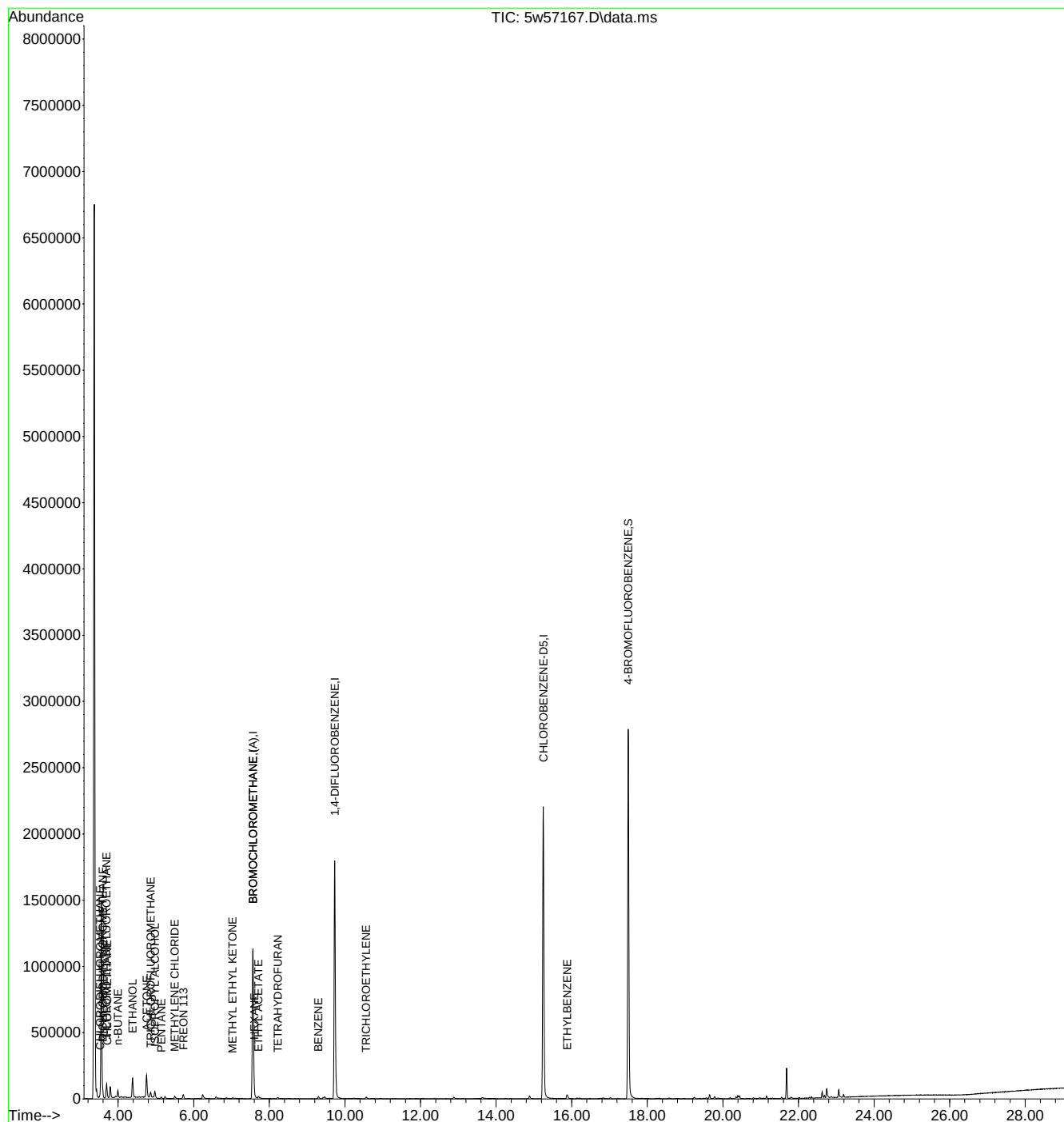
Internal Standards						
1) BROMOCHLOROMETHANE	7.565	128	378798	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.731	114	1804704	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	875389	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.565	128	378798	10.00	PPBV	# 0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.494	95	1187492	10.52	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	105.20%
Target Compounds						
					Qvalue	
4) CHLORODIFLUOROMETHANE	3.515	67	3007	0.2253	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.589	85	57598	0.4805	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.686	65	80738	0.7967	PPBV	95
10) CHLOROMETHANE	3.705	52	9636	0.6319	PPBV	94
13) n-BUTANE	3.992	43	45882	0.9205	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.855	101	33129	0.2817	PPBV	99
22) ISOPROPYL ALCOHOL	4.971	45	72353	0.9303	PPBV	91
23) ACETONE	4.751	58	80590	4.1383	PPBV #	1
24) PENTANE	5.142	42	4668	0.1317	PPBV	85
28) ETHANOL	4.384	45	192249	9.9353	PPBV	98
31) METHYLENE CHLORIDE	5.497	84	8157	0.2230	PPBV	98
33) FREON 113	5.730	151	12052	0.1645	PPBV	98
37) TETRAHYDROFURAN	8.226	72	3422	0.2282	PPBV #	85
38) HEXANE	7.602	57	6557	0.1018	PPBV #	77
41) METHYL ETHYL KETONE	7.027	72	3551	0.2342	PPBV	89
44) ETHYL ACETATE	7.706	61	2757	0.2362	PPBV #	44
52) BENZENE	9.296	78	17807	0.1424	PPBV	99
55) TRICHLOROETHYLENE	10.563	95	4182	0.0648	PPBV	91
79) ETHYLBENZENE	15.879	91	36538	0.1912	PPBV	96

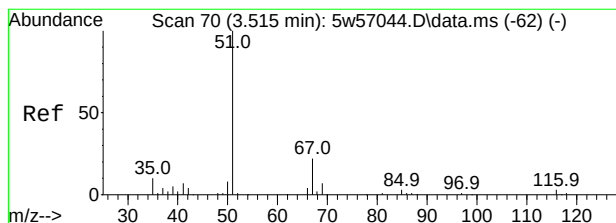
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2193\
Data File : 5w57167.D
Acq On : 3 Mar 2025 6:51 pm
Operator : thomash
Sample : je5976-1 Inst : GCMS5W
Misc : MS89870,V5W2193,400,,,,,1
ALS Vial : 2 Sample Multiplier: 1

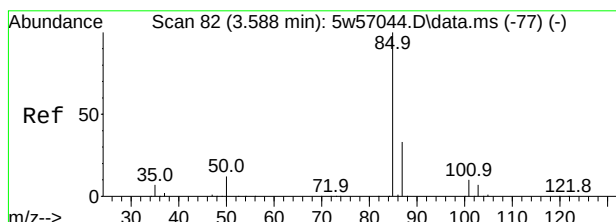
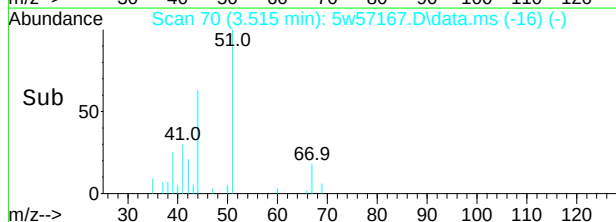
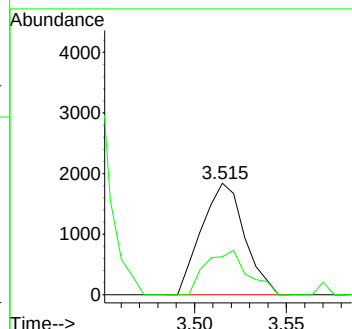
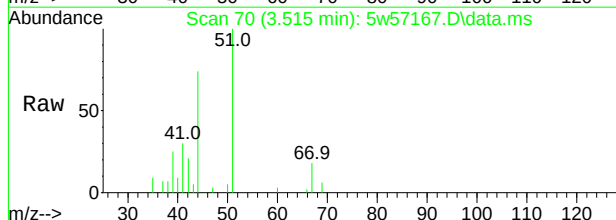
Quant Time: Mar 06 06:04:22 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration





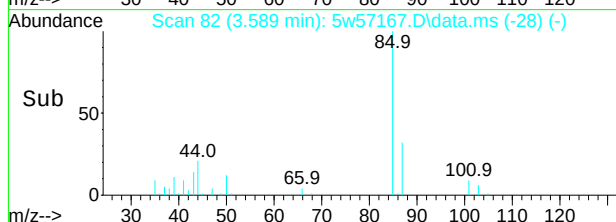
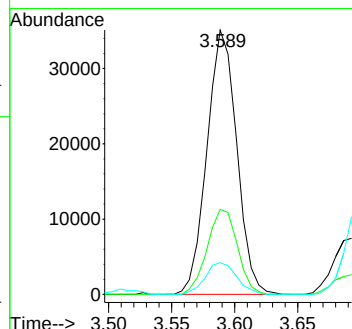
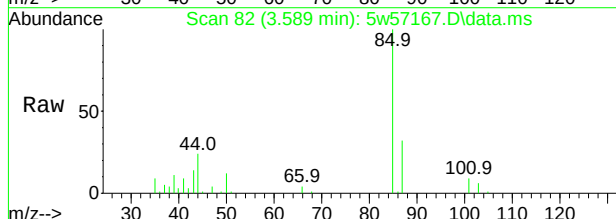
#4
 CHLORODIFLUOROMETHANE
 Concen: 0.2253 PPBV
 RT: 3.515 min Scan# 70
 Delta R.T. 0.000 min
 Lab File: 5w57167.D
 Acq: 3 Mar 2025 6:51 pm

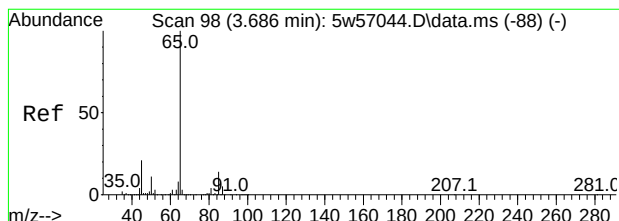
Tgt Ion: 67 Resp: 3007
 Ion Ratio Lower Upper
 67 100
 69 34.2 2.3 62.3



#6
 DICHLORODIFLUOROMETHANE
 Concen: 0.4805 PPBV
 RT: 3.589 min Scan# 82
 Delta R.T. 0.001 min
 Lab File: 5w57167.D
 Acq: 3 Mar 2025 6:51 pm

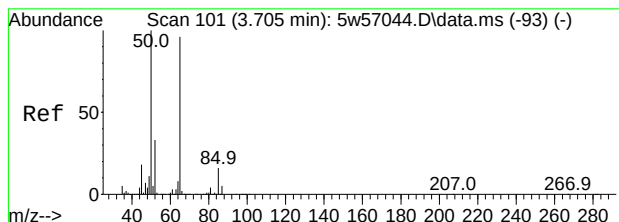
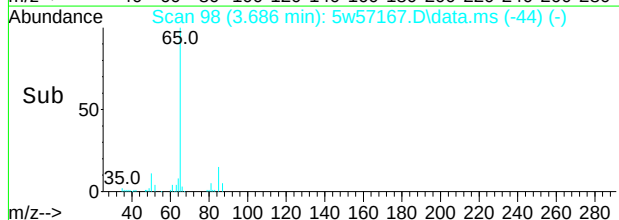
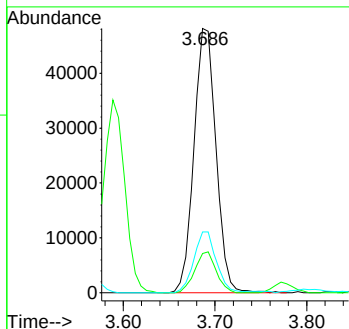
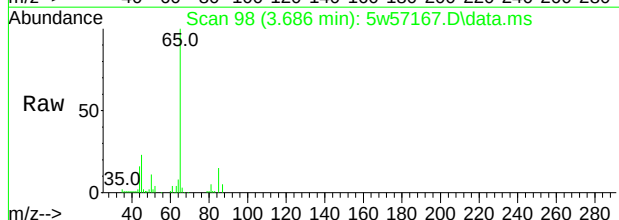
Tgt Ion: 85 Resp: 57598
 Ion Ratio Lower Upper
 85 100
 87 32.5 2.7 62.7
 50 12.7 0.0 42.6





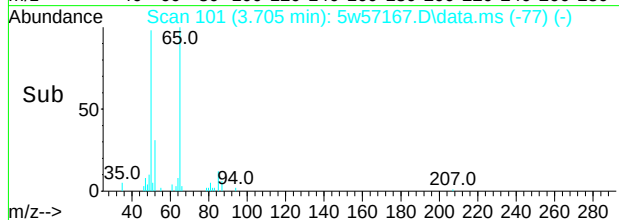
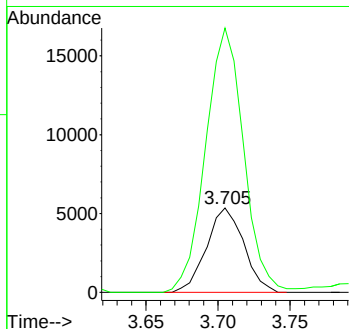
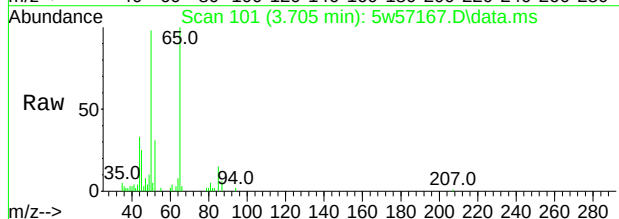
#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.7967 PPBV
RT: 3.686 min Scan# 98
Delta R.T. 0.000 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

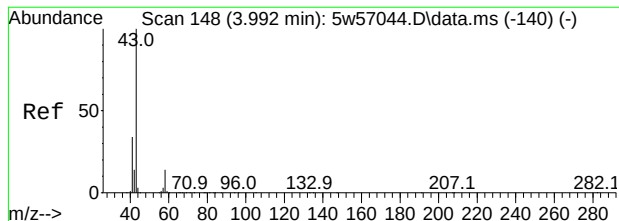
Tgt Ion	Ratio	Lower	Upper
65	100		
85	15.1	11.1	20.7
45	24.1	14.6	27.0



#10
CHLOROMETHANE
Concen: 0.6319 PPBV
RT: 3.705 min Scan# 101
Delta R.T. -0.000 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

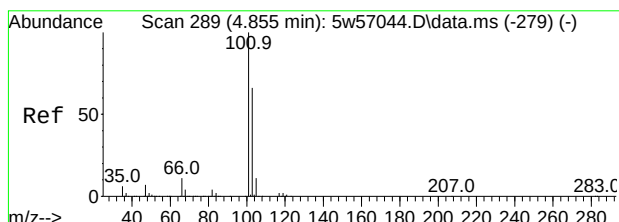
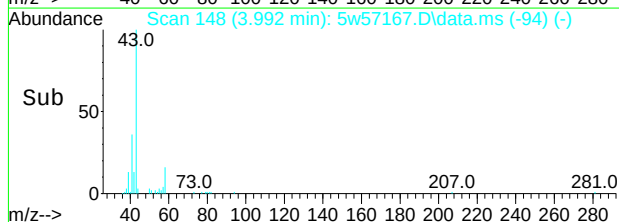
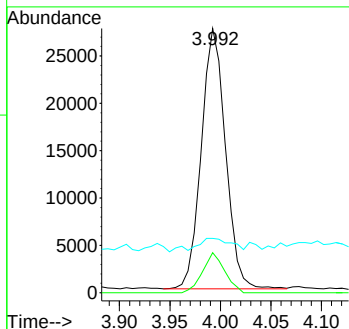
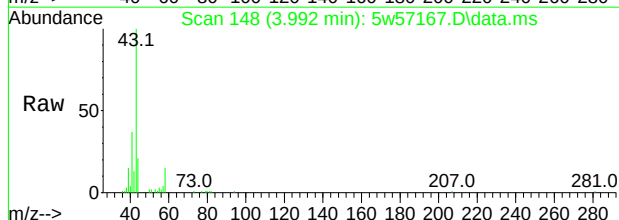
Tgt Ion	Ratio	Lower	Upper
52	100		
50	310.7	269.7	329.7





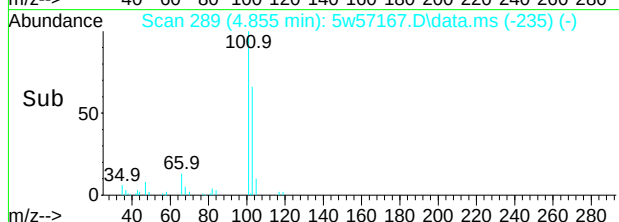
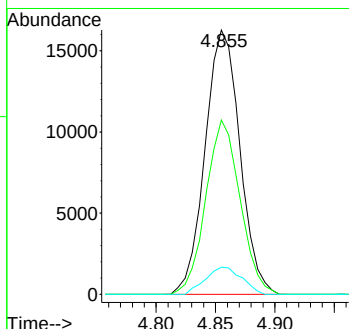
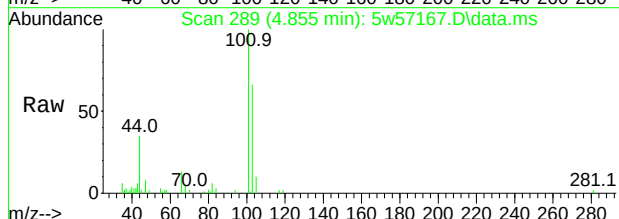
#13
n-BUTANE
Concen: 0.9205 PPBV
RT: 3.992 min Scan# 148
Delta R.T. 0.000 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

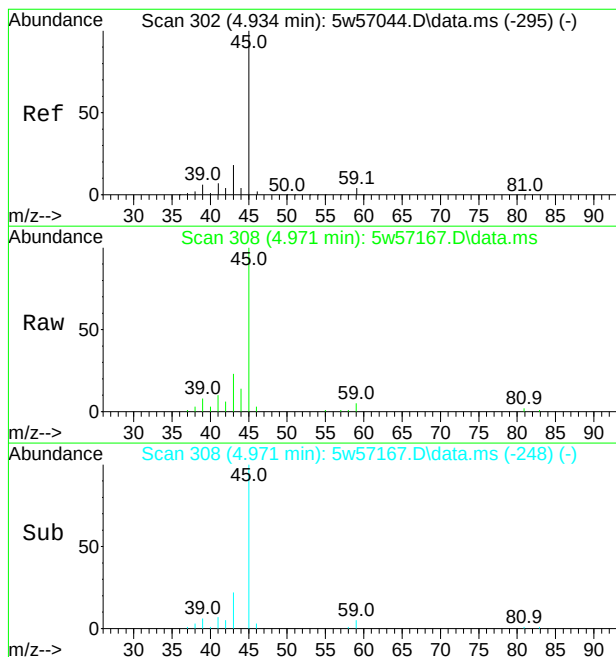
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	45882		
58	14.1		0.0	43.8
44	5.8		0.0	35.5



#21
TRICHLOROFLUOROMETHANE
Concen: 0.2817 PPBV
RT: 4.855 min Scan# 289
Delta R.T. -0.000 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

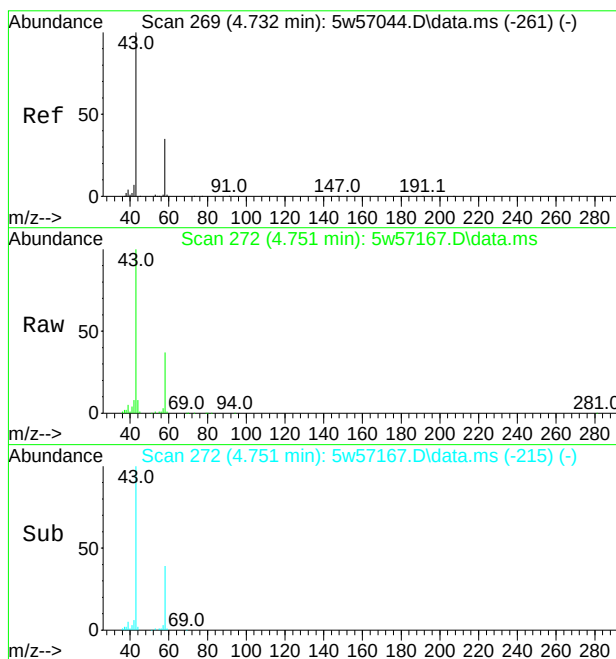
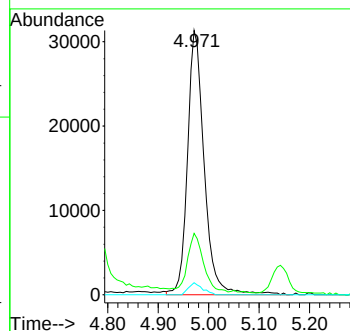
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	33129		
103	64.8		35.5	95.5
105	10.7		0.0	40.8





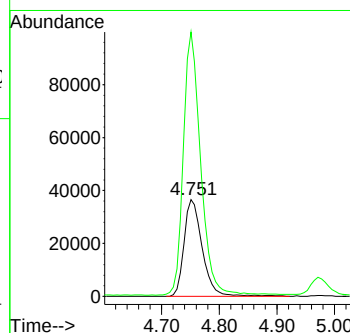
#22
ISOPROPYL ALCOHOL
Concen: 0.9303 PPBV
RT: 4.971 min Scan# 308
Delta R.T. 0.037 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

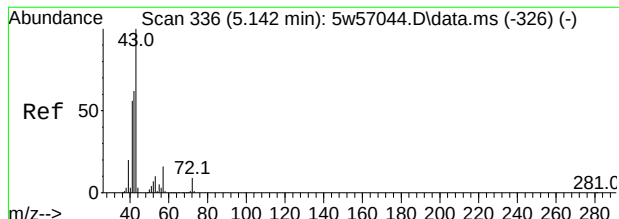
Tgt	Ion	Ratio	Lower	Upper
45	45	100		
43	43	23.2	0.0	48.5
59	59	4.6	0.0	34.2



#23
ACETONE
Concen: 4.1383 PPBV
RT: 4.751 min Scan# 272
Delta R.T. 0.019 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

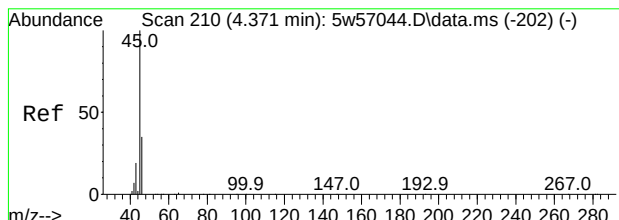
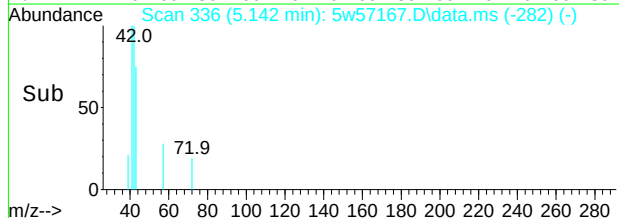
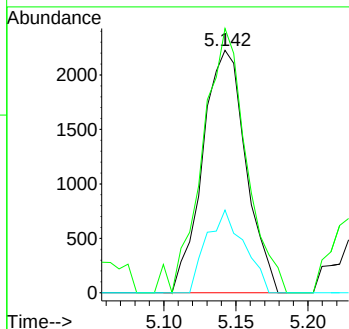
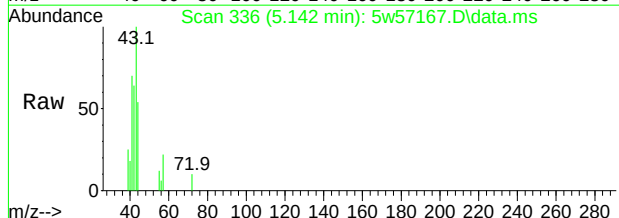
Tgt	Ion	Ratio	Lower	Upper
58	58	100		
43	43	259.8	0.0	32.7#





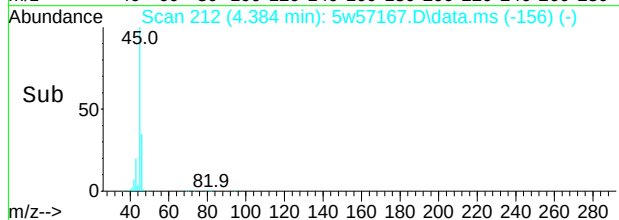
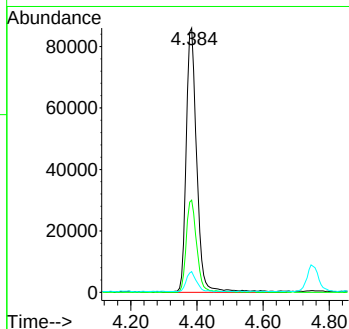
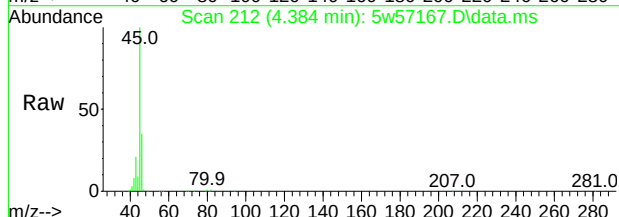
#24
PENTANE
Concen: 0.1317 PPBV
RT: 5.142 min Scan# 336
Delta R.T. 0.000 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

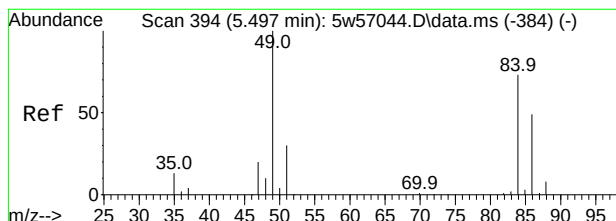
Tgt Ion: 42 Resp: 4668
Ion Ratio Lower Upper
42 100
41 110.4 62.9 122.9
57 29.7 0.0 57.4



#28
ETHANOL
Concen: 9.9353 PPBV
RT: 4.384 min Scan# 212
Delta R.T. 0.013 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

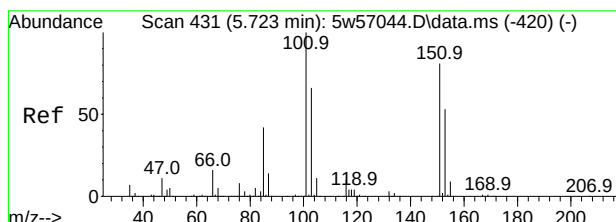
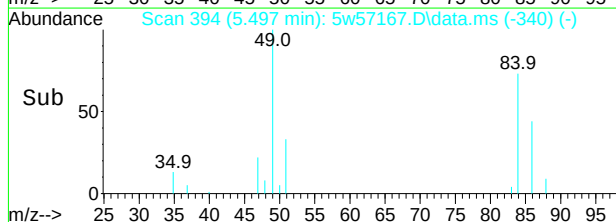
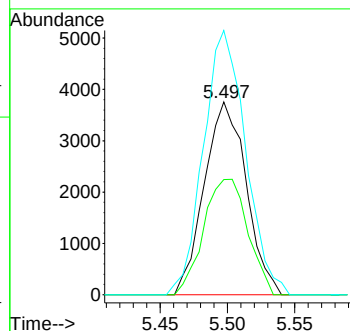
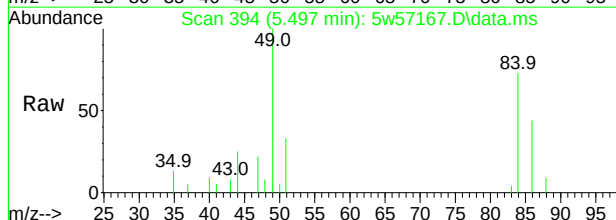
Tgt Ion: 45 Resp: 192249
Ion Ratio Lower Upper
45 100
46 34.4 5.4 65.4
42 7.3 0.0 37.7





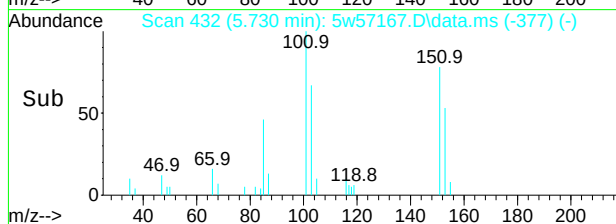
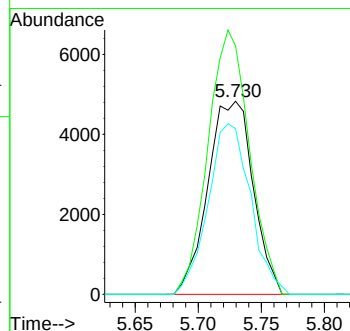
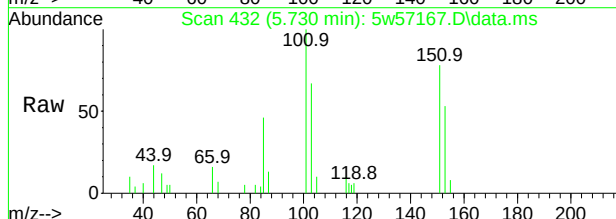
#31
METHYLENE CHLORIDE
Concen: 0.2230 PPBV
RT: 5.497 min Scan# 394
Delta R.T. 0.000 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

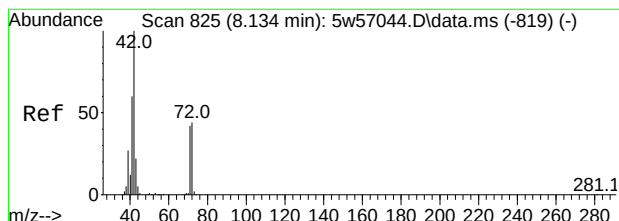
Tgt Ion:	84	Resp:	8157
Ion Ratio	Lower	Upper	
84	100		
86	62.8	36.1	96.1
49	137.9	106.2	166.2



#33
FREON 113
Concen: 0.1645 PPBV
RT: 5.730 min Scan# 432
Delta R.T. 0.007 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

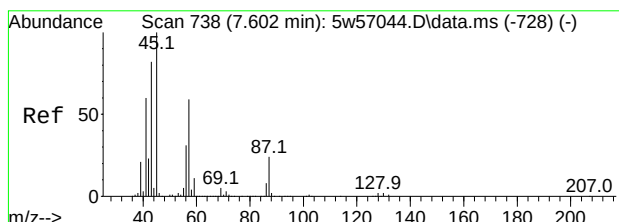
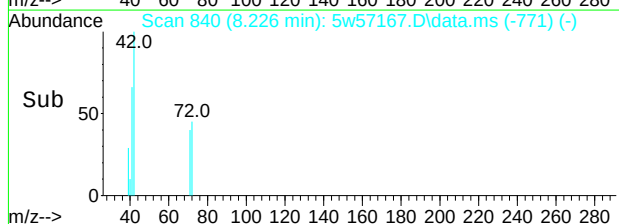
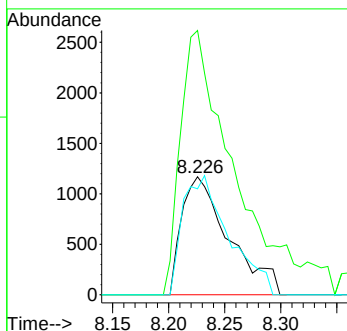
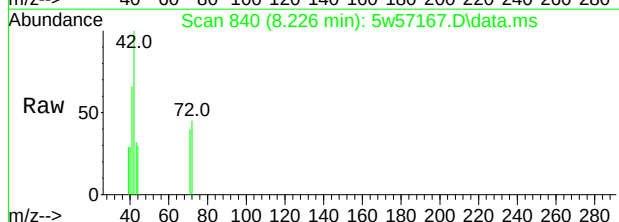
Tgt Ion:	151	Resp:	12052
Ion Ratio	Lower	Upper	
151	100		
101	125.6	93.6	153.6
103	82.8	50.5	110.5





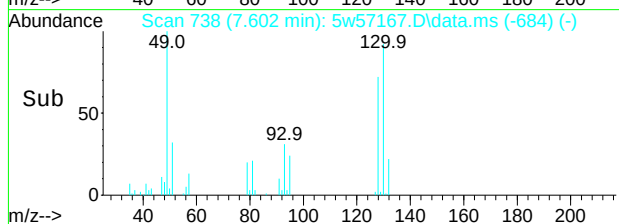
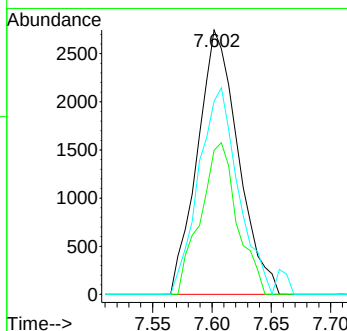
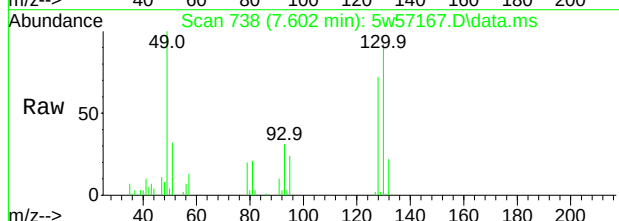
#37
TETRAHYDROFURAN
Concen: 0.2282 PPBV
RT: 8.226 min Scan# 840
Delta R.T. 0.092 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

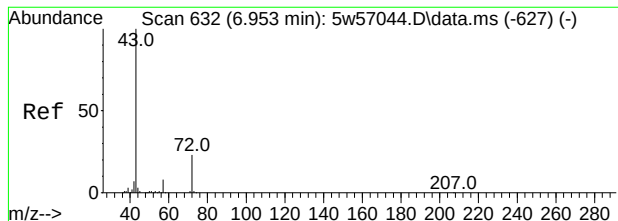
Tgt Ion: 72 Resp: 3422
Ion Ratio Lower Upper
72 100
42 261.7 197.6 257.6#
71 98.3 69.0 129.0



#38
HEXANE
Concen: 0.1018 PPBV
RT: 7.602 min Scan# 738
Delta R.T. -0.000 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

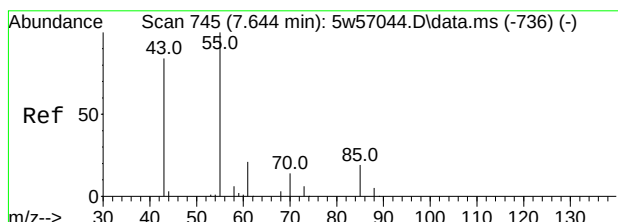
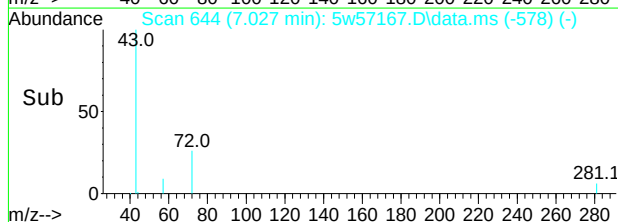
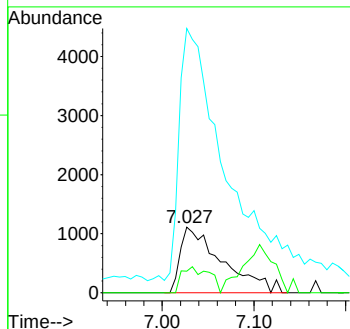
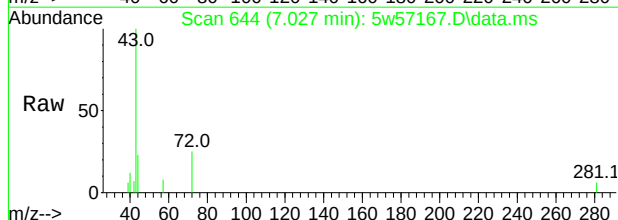
Tgt Ion: 57 Resp: 6557
Ion Ratio Lower Upper
57 100
56 51.4 25.5 85.5
41 75.7 78.7 138.7#





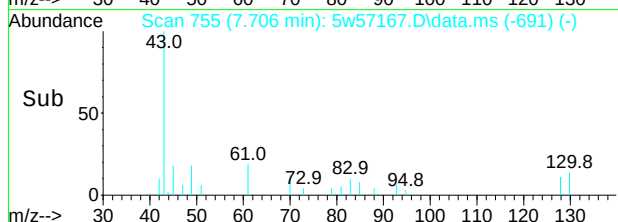
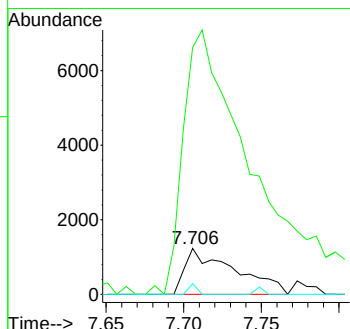
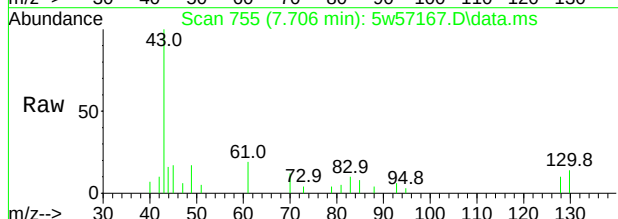
#41
METHYL ETHYL KETONE
Concen: 0.2342 PPBV
RT: 7.027 min Scan# 644
Delta R.T. 0.074 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

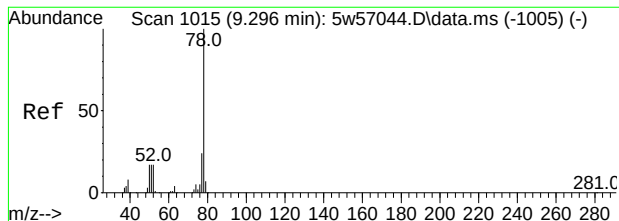
Tgt Ion: 72	Resp: 3551
Ion Ratio Lower Upper	
72 100	
57 32.9 3.9 63.9	
43 402.2 401.3 461.3	



#44
ETHYL ACETATE
Concen: 0.2362 PPBV
RT: 7.706 min Scan# 755
Delta R.T. 0.062 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

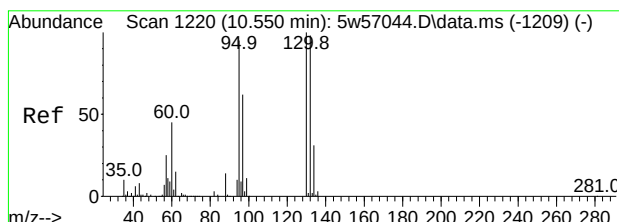
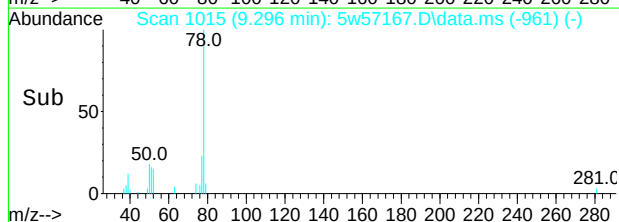
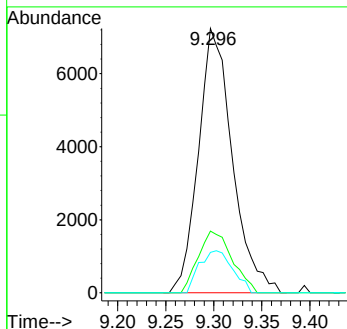
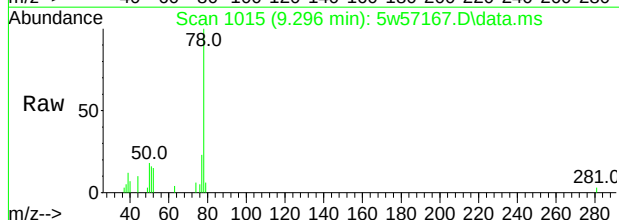
Tgt Ion: 61	Resp: 2757
Ion Ratio Lower Upper	
61 100	
43 976.5 0.0 30.0#	
88 3.8 7.2 67.2#	





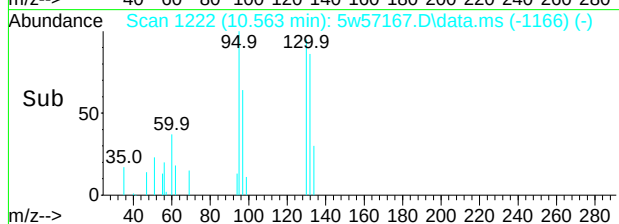
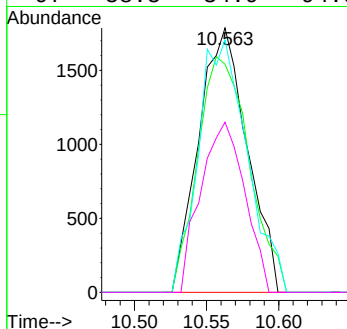
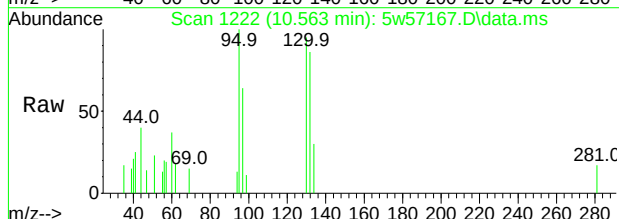
#52
BENZENE
Concen: 0.1424 PPBV
RT: 9.296 min Scan# 1015
Delta R.T. 0.000 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

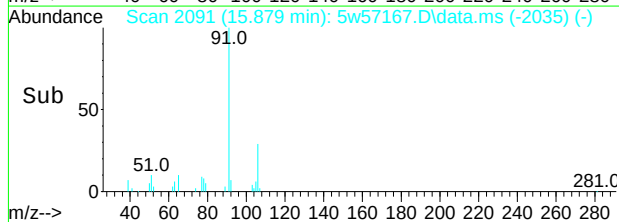
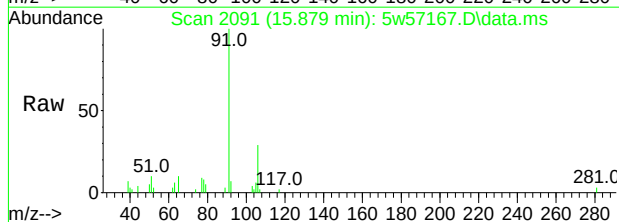
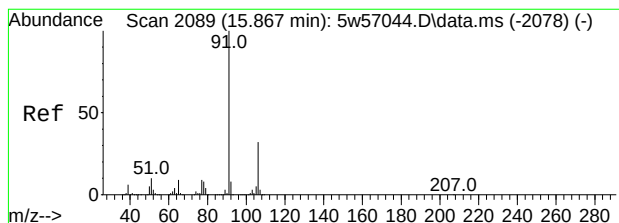
Tgt Ion: 78	Resp: 17807
Ion Ratio	Lower Upper
78 100	
77 23.3	0.0 53.7
52 15.6	0.0 46.4



#55
TRICHLOROETHYLENE
Concen: 0.0648 PPBV
RT: 10.563 min Scan# 1222
Delta R.T. 0.013 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

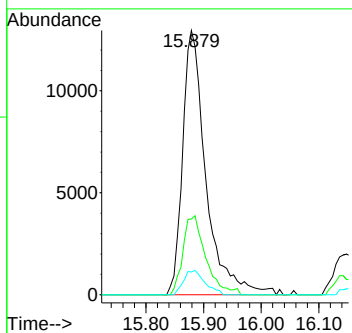
Tgt Ion: 95	Resp: 4182
Ion Ratio	Lower Upper
95 100	
132 94.4	74.4 134.4
130 96.9	77.2 137.2
97 58.5	34.9 94.9





#79
ETHYLBENZENE
Concen: 0.1912 PPBV
RT: 15.879 min Scan# 2091
Delta R.T. 0.012 min
Lab File: 5w57167.D
Acq: 3 Mar 2025 6:51 pm

Tgt	Ion	91	Resp:	36538
	Ratio	100	Lower	Upper
	91	100		
	106	29.1	2.0	62.0
	77	8.4	0.0	38.6



Quantitation Report (QT Reviewed)

Data Path : G:\Dayton\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
 Data File : 7w13227.D
 Acq On : 6 Mar 2025 6:03 pm
 Operator : williamc
 Sample : je5976-2
 Misc : MS89870,v7w465,100,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 00:52:54 2025
 Quant Method : C:\msdchem\1\methods\M7W405.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Sun Dec 29 19:41:17 2024
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	3.235	128	132613	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.502	114	647805	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	603016	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.235	128	132613	10.00	PPBV	0.00

System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.386	95	412411	9.43	PPBV	0.00

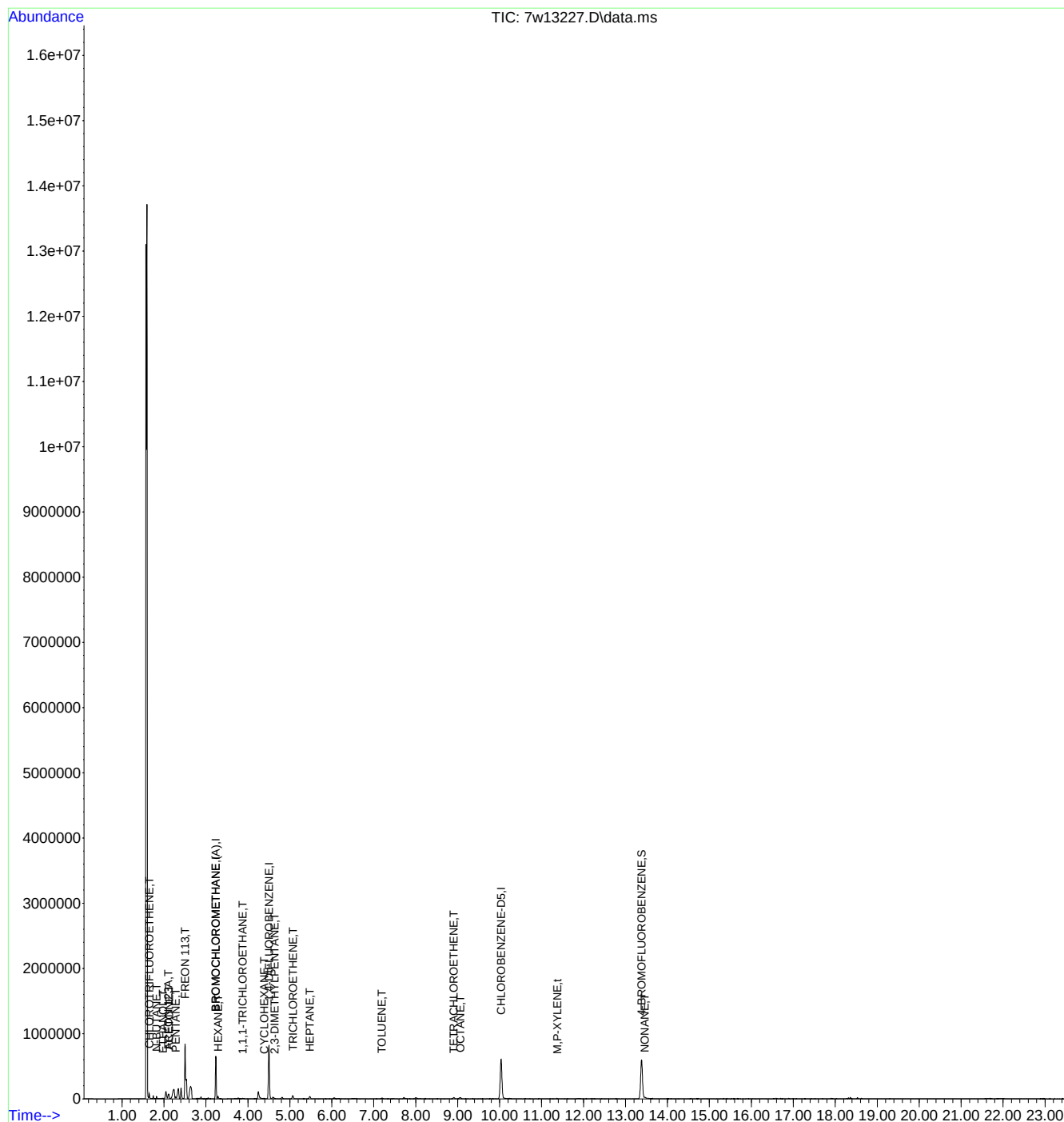
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) CHLOROTRIFLUOROETHENE	1.647	116	9632	0.62	PPBV	# 1
13) N-BUTANE	1.824	43	12375	0.72	PPBV	# 93
20) FREON 123A	2.100	117	13373	0.85	PPBV	89
23) ACETONE	2.116	58	7221	0.94	PPBV	95
24) PENTANE	2.277	42	6303	0.53	PPBV	94
28) ETHANOL	1.975	45	1781	0.26	PPBV	97
33) FREON 113	2.502	151	147337	8.46	PPBV	91
38) HEXANE	3.286	57	13632	0.62	PPBV	# 71
48) 1,1,1-TRICHLOROETHANE	3.875	97	3467	0.13	PPBV	98
53) CYCLOHEXANE	4.386	84	1538	0.10	PPBV	# 37
54) 2,3-DIMETHYLPENTANE	4.637	71	1169	0.15	PPBV	# 43
55) TRICHLOROETHENE	5.071	95	16276	0.99	PPBV	97
62) HEPTANE	5.476	43	15763	0.72	PPBV	97
66) TOLUENE	7.190	91	10617	0.23	PPBV	100
72) TETRACHLOROETHENE	8.913	164	6365	0.37	PPBV	97
75) OCTANE	9.061	43	12511	0.40	PPBV	95
80) M,P-XYLENE	11.373	91	4821	0.10	PPBV	58
83) NONANE	13.466	43	5246	0.16	PPBV	90

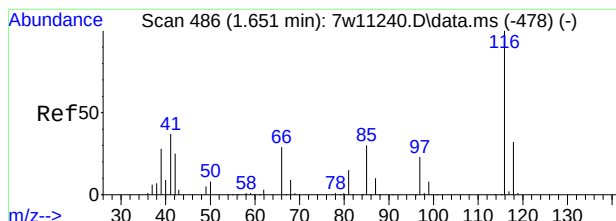
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Dayton\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13227.D
Acq On : 6 Mar 2025 6:03 pm
Operator : williamc
Sample : je5976-2
Misc : MS89870,v7w465,100,,,1
ALS Vial : 6 Sample Multiplier: 1

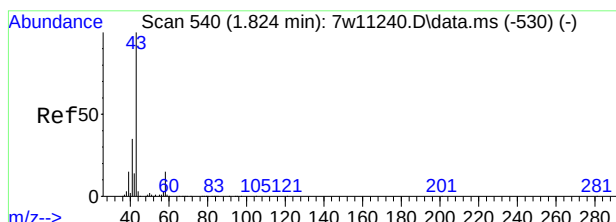
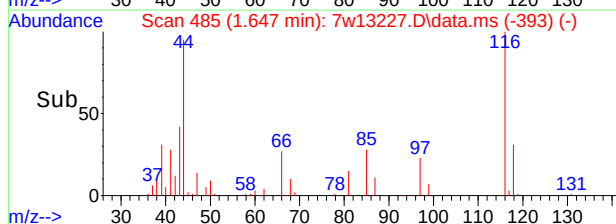
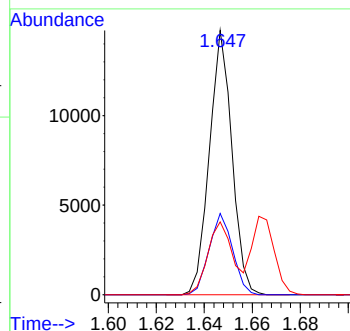
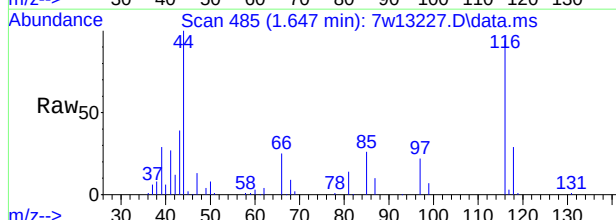
Quant Time: Mar 09 00:52:54 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration





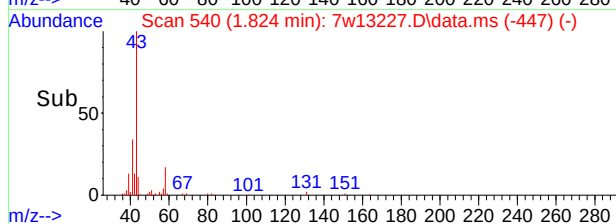
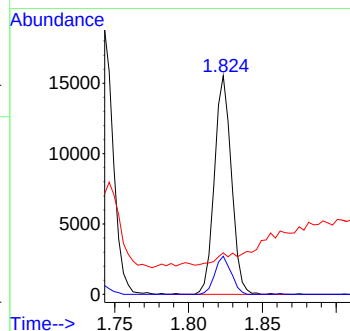
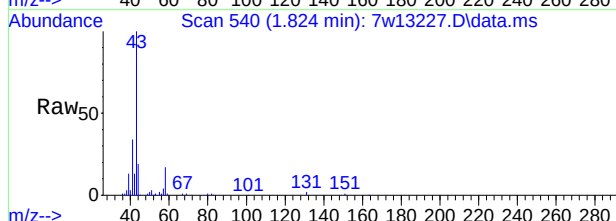
#5
 CHLOROTRIFLUOROETHENE
 Concen: 0.62 PPBV
 RT: 1.647 min Scan# 485
 Delta R.T. -0.004 min
 Lab File: 7w13227.D
 Acq: 6 Mar 2025 6:03 pm

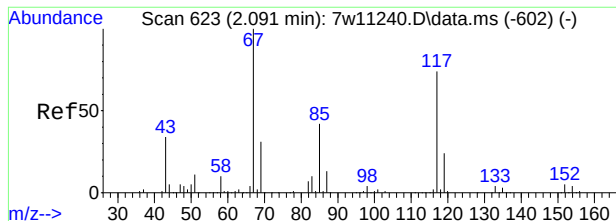
Tgt Ion:	116	Resp:	9632
Ion Ratio	Lower	Upper	
116	100		
118	32.1	22.7	42.1
85	31.1	149.4	277.4#



#13
 N-BUTANE
 Concen: 0.72 PPBV
 RT: 1.824 min Scan# 540
 Delta R.T. -0.000 min
 Lab File: 7w13227.D
 Acq: 6 Mar 2025 6:03 pm

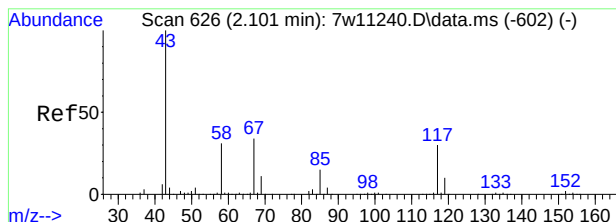
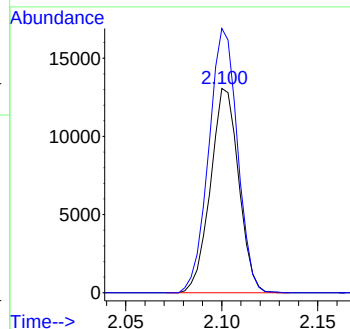
Tgt Ion:	43	Resp:	12375
Ion Ratio	Lower	Upper	
43	100		
58	16.8	10.4	19.2
44	0.0	3.0	5.6#





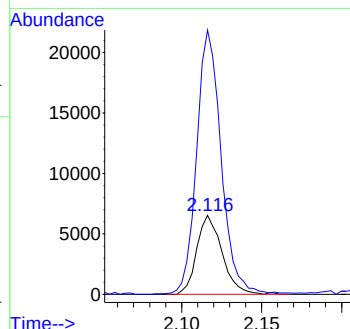
#20
FREON 123A
Concen: 0.85 PPBV
RT: 2.100 min Scan# 626
Delta R.T. 0.009 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

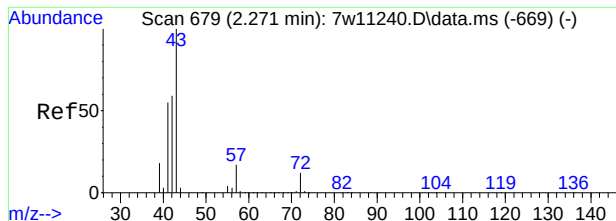
Tgt Ion: 117 Resp: 13373
Ion Ratio Lower Upper
117 100
67 131.6 102.0 189.4



#23
ACETONE
Concen: 0.94 PPBV
RT: 2.116 min Scan# 631
Delta R.T. 0.015 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

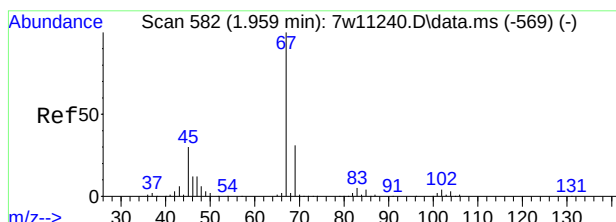
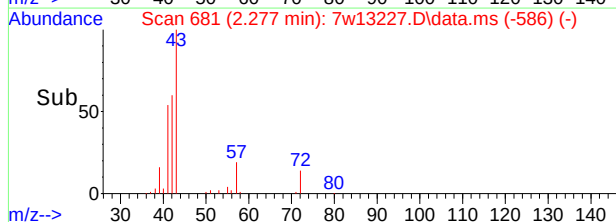
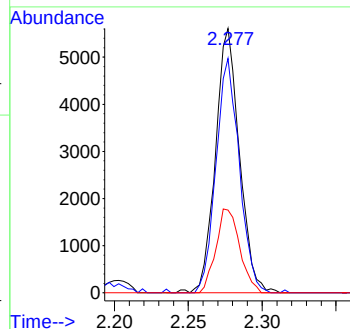
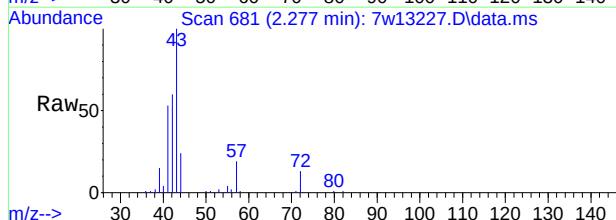
Tgt Ion: 58 Resp: 7221
Ion Ratio Lower Upper
58 100
43 324.2 234.4 435.2





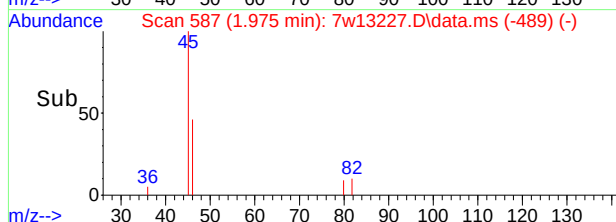
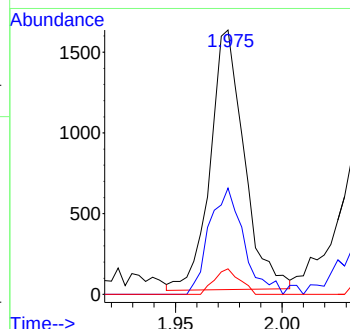
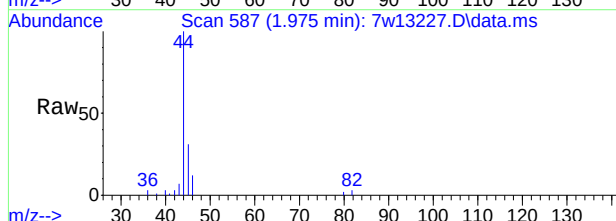
#24
PENTANE
Concen: 0.53 PPBV
RT: 2.277 min Scan# 681
Delta R.T. 0.006 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

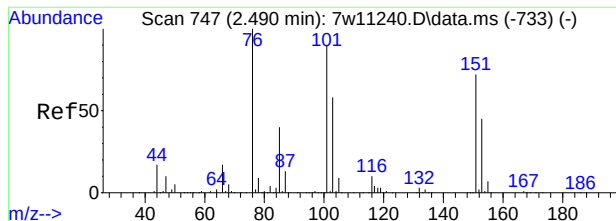
Tgt Ion:	42	Resp:	6303
Ion	Ratio	Lower	Upper
42	100		
41	86.3	64.8	120.3
57	31.6	19.7	36.7



#28
ETHANOL
Concen: 0.26 PPBV
RT: 1.975 min Scan# 587
Delta R.T. 0.016 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

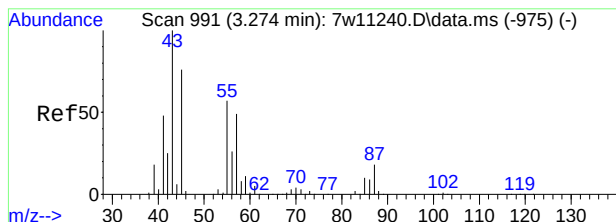
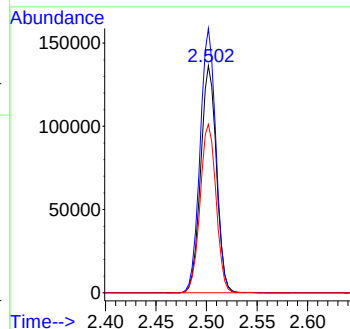
Tgt Ion:	45	Resp:	1781
Ion	Ratio	Lower	Upper
45	100		
46	42.7	28.6	53.0
42	7.5	6.3	11.7





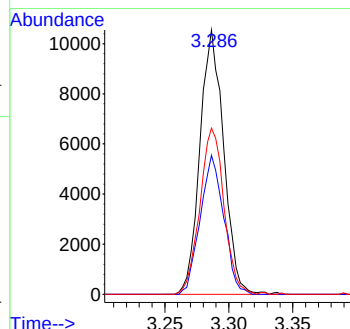
#33
FREON 113
Concen: 8.46 PPBV
RT: 2.502 min Scan# 751
Delta R.T. 0.012 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

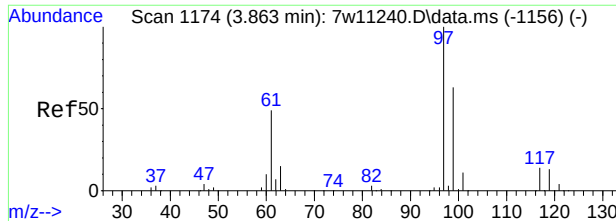
Tgt Ion: 151 Resp: 147337
Ion Ratio Lower Upper
151 100
101 117.1 89.3 165.9
103 75.2 57.5 106.9



#38
HEXANE
Concen: 0.62 PPBV
RT: 3.286 min Scan# 995
Delta R.T. 0.012 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

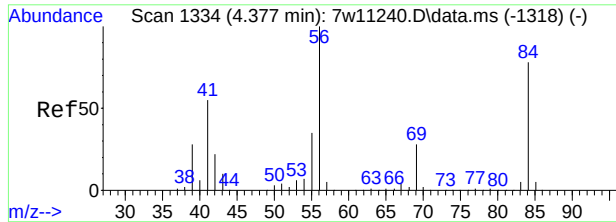
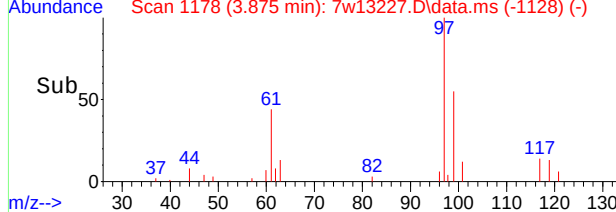
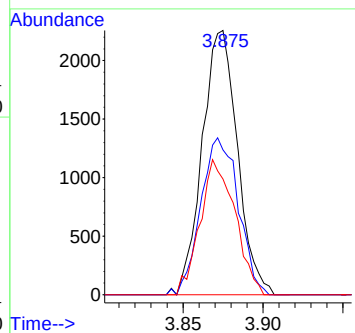
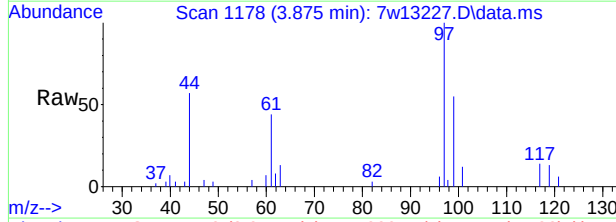
Tgt Ion: 57 Resp: 13632
Ion Ratio Lower Upper
57 100
56 52.1 37.8 70.2
41 64.2 75.9 140.9#





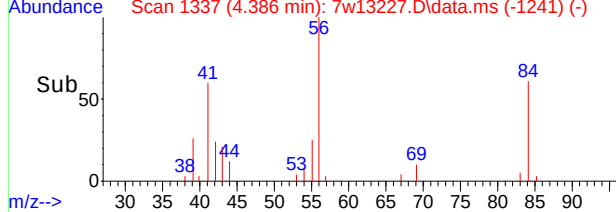
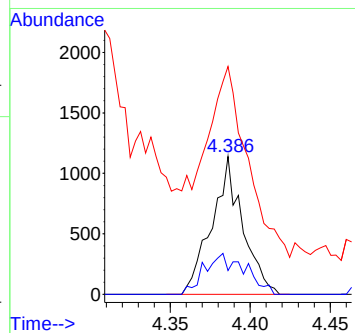
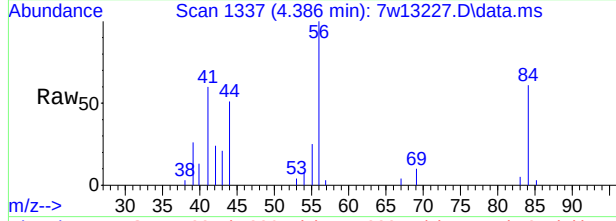
#48
1,1,1-TRICHLOROETHANE
Concen: 0.13 PPBV
RT: 3.875 min Scan# 1178
Delta R.T. 0.012 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

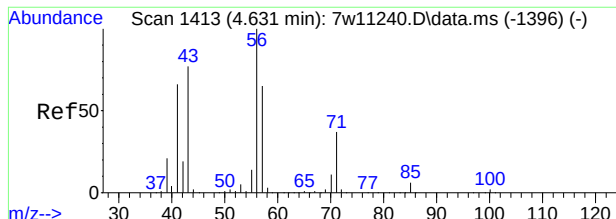
Tgt Ion:	97	Resp:	3467
Ion	Ratio	Lower	Upper
97	100		
99	63.2	45.1	83.9
61	50.6	34.2	63.6



#53
CYCLOHEXANE
Concen: 0.10 PPBV
RT: 4.386 min Scan# 1337
Delta R.T. 0.009 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

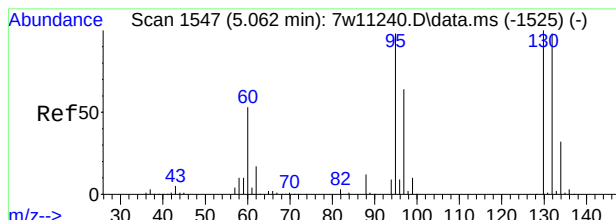
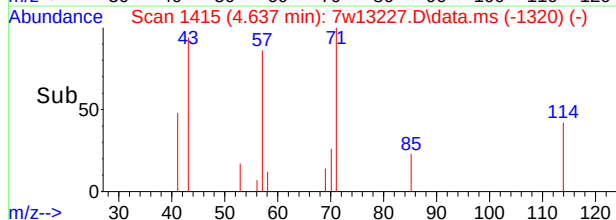
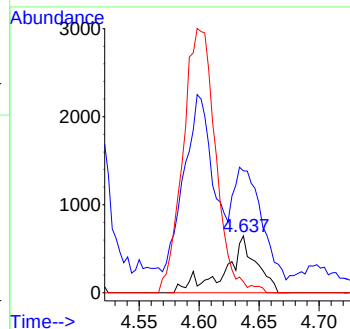
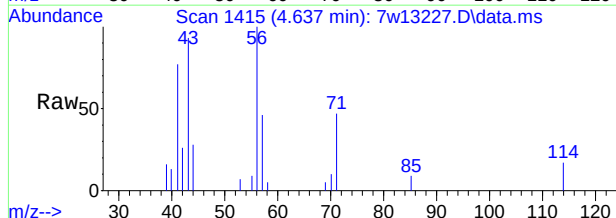
Tgt Ion:	84	Resp:	1538
Ion	Ratio	Lower	Upper
84	100		
69	38.5	24.8	46.0
56	219.2	89.8	166.8#





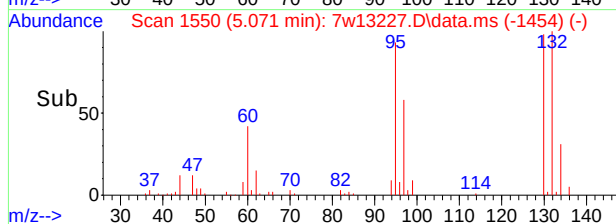
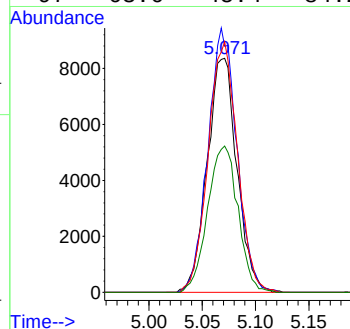
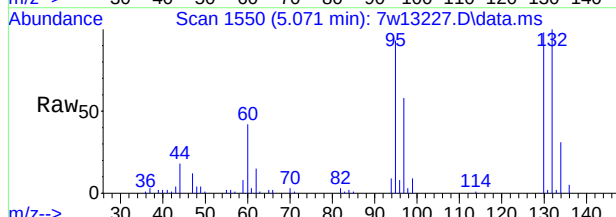
#54
2,3-DIMETHYLPENTANE
Concen: 0.15 PPBV
RT: 4.637 min Scan# 1415
Delta R.T. 0.006 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

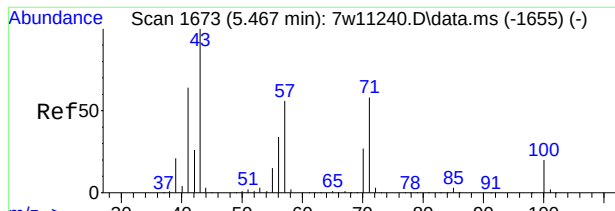
Tgt Ion	Ratio	Lower	Upper
71	100		
56	175.4	199.6	370.8#
85	0.0	12.1	22.5#



#55
TRICHLOROETHENE
Concen: 0.99 PPBV
RT: 5.071 min Scan# 1550
Delta R.T. 0.009 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

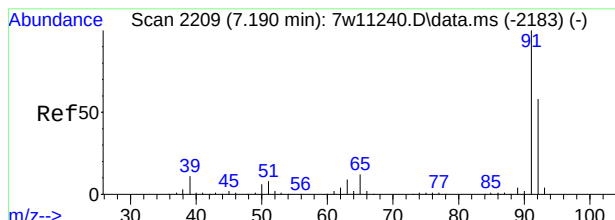
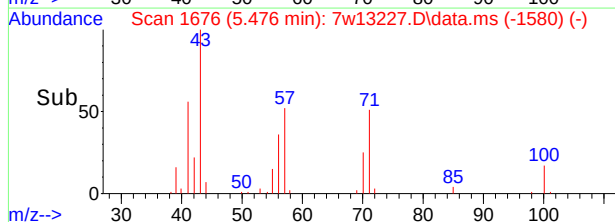
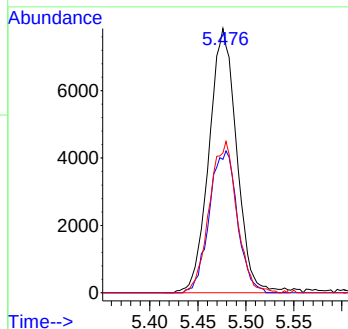
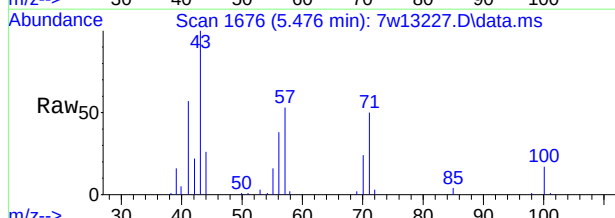
Tgt Ion	Ratio	Lower	Upper
95	100		
130	109.2	72.8	135.2
132	105.5	71.9	133.5
97	63.6	45.4	84.2





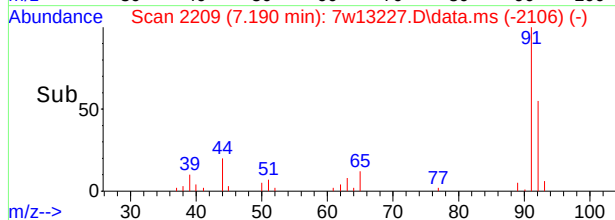
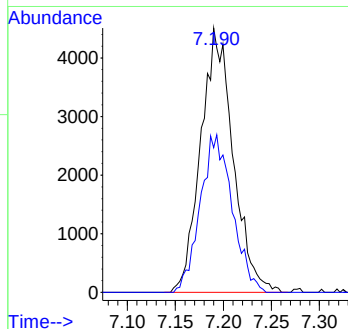
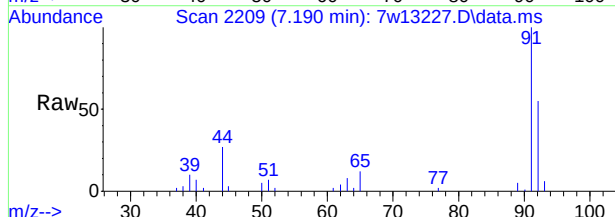
#62
HEPTANE
Concen: 0.72 PPBV
RT: 5.476 min Scan# 1676
Delta R.T. 0.009 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

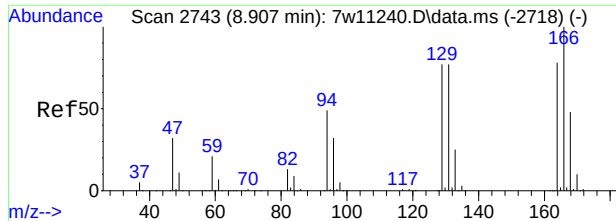
Tgt Ion: 43 Resp: 15763
Ion Ratio Lower Upper
43 100
71 54.2 40.0 74.4
57 56.8 38.9 72.2



#66
TOLUENE
Concen: 0.23 PPBV
RT: 7.190 min Scan# 2209
Delta R.T. -0.000 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

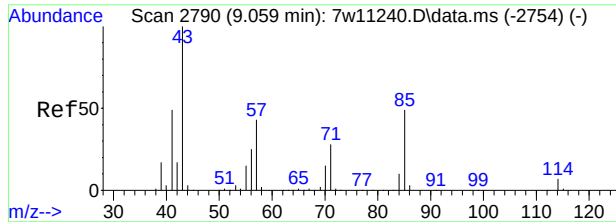
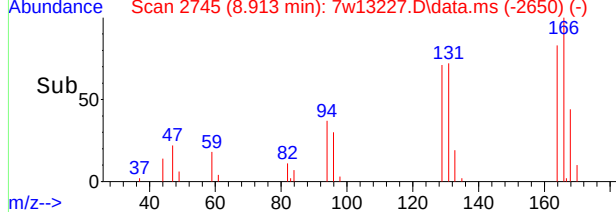
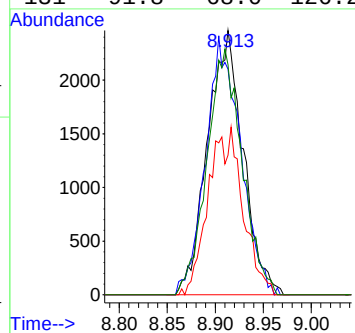
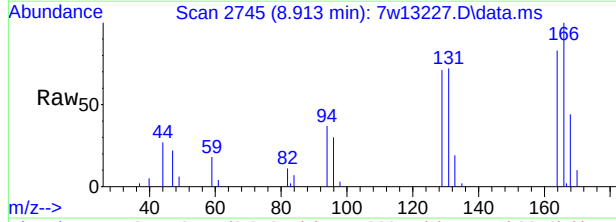
Tgt Ion: 91 Resp: 10617
Ion Ratio Lower Upper
91 100
92 58.8 29.0 89.0





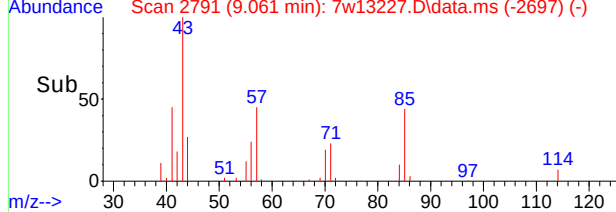
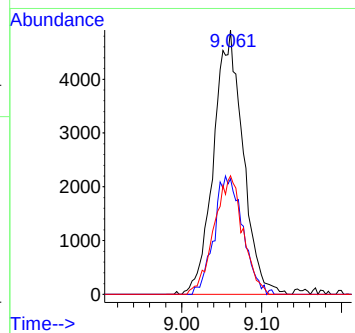
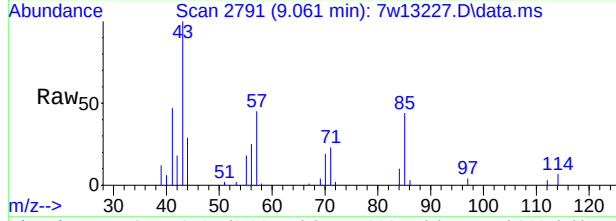
#72
TETRACHLOROETHENE
Concen: 0.37 PPBV
RT: 8.913 min Scan# 2745
Delta R.T. 0.006 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

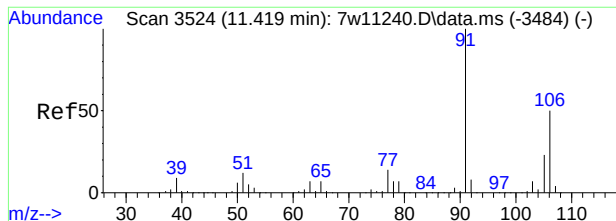
Tgt Ion:	164	Resp:	6365
Ion Ratio	Lower	Upper	
164	100		
129	95.6	68.9	127.9
168	61.4	42.3	78.5
131	91.8	68.0	126.2



#75
OCTANE
Concen: 0.40 PPBV
RT: 9.061 min Scan# 2791
Delta R.T. 0.002 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

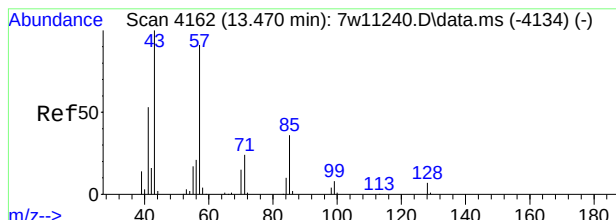
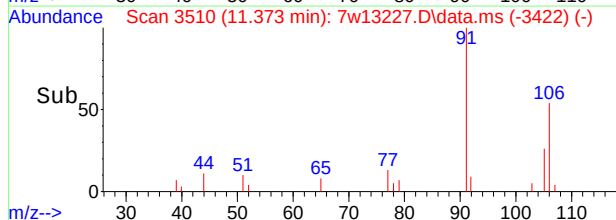
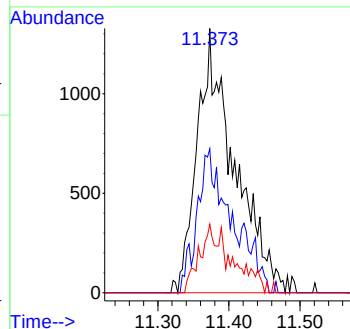
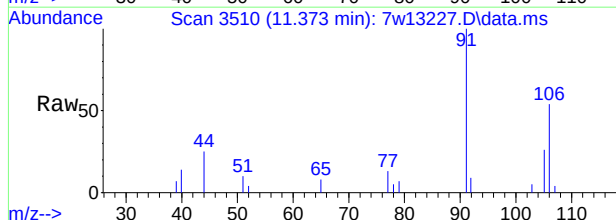
Tgt Ion:	43	Resp:	12511
Ion Ratio	Lower	Upper	
43	100		
85	43.8	33.9	63.0
57	44.3	30.0	55.8





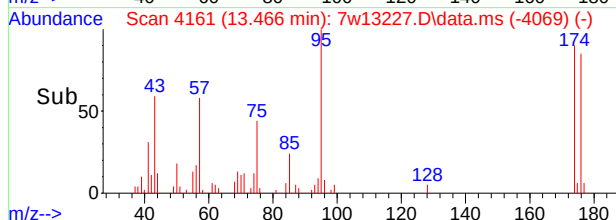
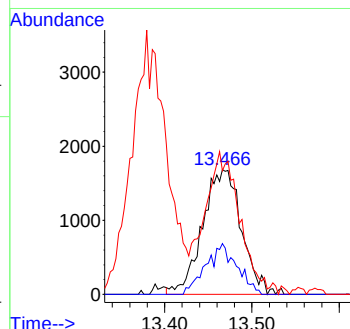
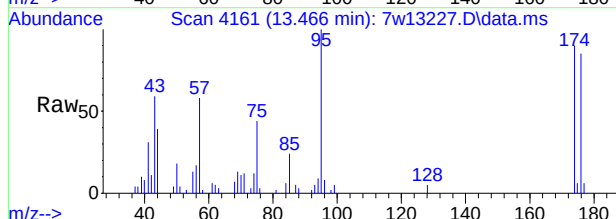
#80
M,P-XYLENE
Concen: 0.10 PPBV
RT: 11.373 min Scan# 3510
Delta R.T. -0.046 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

Tgt Ion:	91	Resp:	4821
Ion Ratio	Lower	Upper	
91	100		
106	51.5	0.0	55.5
105	20.0	0.0	41.7



#83
NONANE
Concen: 0.16 PPBV
RT: 13.466 min Scan# 4161
Delta R.T. -0.004 min
Lab File: 7w13227.D
Acq: 6 Mar 2025 6:03 pm

Tgt Ion:	43	Resp:	5246
Ion Ratio	Lower	Upper	
43	100		
85	32.5	25.0	46.4
57	104.6	65.7	122.1



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57180.D
Acq On : 4 Mar 2025 11:15 pm
Operator : thomash
Sample : je5976-3 Inst : GCMS5W
Misc : MS89870,V5W2194,400,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 05 21:21:51 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

Internal Standards							
1)	BROMOCHLOROMETHANE	7.553	128	376024	10.00	PPBV	-0.02
51)	1,4-DIFLUOROBENZENE	9.724	114	1774348	10.00	PPBV	-0.01
70)	CHLOROBENZENE-D5	15.249	82	846759	10.00	PPBV	0.00
109)	BROMOCHLOROMETHANE (A)	7.553	128	376024	10.00	PPBV	#-0.02
System Monitoring Compounds							
85)	4-BROMOFLUOROBENZENE	17.494	95	1139820	10.44	PPBV	0.00
Spiked Amount 10.000		Range	65 - 128	Recovery	=	104.40%	
Target Compounds							Qvalue
4)	CHLORODIFLUOROMETHANE	3.503	67	2882	0.2176	PPBV	84
6)	DICHLORODIFLUOROMETHANE	3.582	85	56734	0.4768	PPBV	99
10)	CHLOROMETHANE	3.692	52	10555	0.6972	PPBV	92
13)	n-BUTANE	3.980	43	34549	0.6983	PPBV	100
18)	ACROLEIN	4.635	56	4253	0.2615	PPBV	85
21)	TRICHLOROFLUOROMETHANE	4.843	101	36548	0.3131	PPBV	99
22)	ISOPROPYL ALCOHOL	4.953	45	169944	2.2011	PPBV	98
23)	ACETONE	4.732	58	128899	6.6678	PPBV #	1
24)	PENTANE	5.130	42	7681	0.2183	PPBV	89
28)	ETHANOL	4.365	45	380535	19.8108	PPBV	99
31)	METHYLENE CHLORIDE	5.485	84	15577	0.4290	PPBV	96
35)	TERTIARY BUTYL ALCOHOL	5.509	59	11242	0.1446	PPBV #	46
38)	HEXANE	7.596	57	13422	0.2099	PPBV #	78
39)	VINYL ACETATE	6.708	86	1740	0.2643	PPBV #	92
41)	METHYL ETHYL KETONE	7.008	72	3280	0.2179	PPBV #	80
44)	ETHYL ACETATE	7.657	61	60388	5.2119	PPBV #	74
52)	BENZENE	9.296	78	17155	0.1395	PPBV	100
55)	TRICHLOROETHYLENE	10.550	95	12043	0.1898	PPBV	89
66)	TOLUENE	12.863	92	30526	0.3345	PPBV	97
73)	TETRACHLOROETHYLENE	14.380	164	9914	0.1451	PPBV	96
108)	NAPHTHALENE	22.743	128	106406	0.4147	PPBV	98

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57180.D
Acq On : 4 Mar 2025 11:15 pm
Operator : thomash
Sample : je5976-3
Misc : MS89870,V5W2194,400,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Inst : GCMS5W

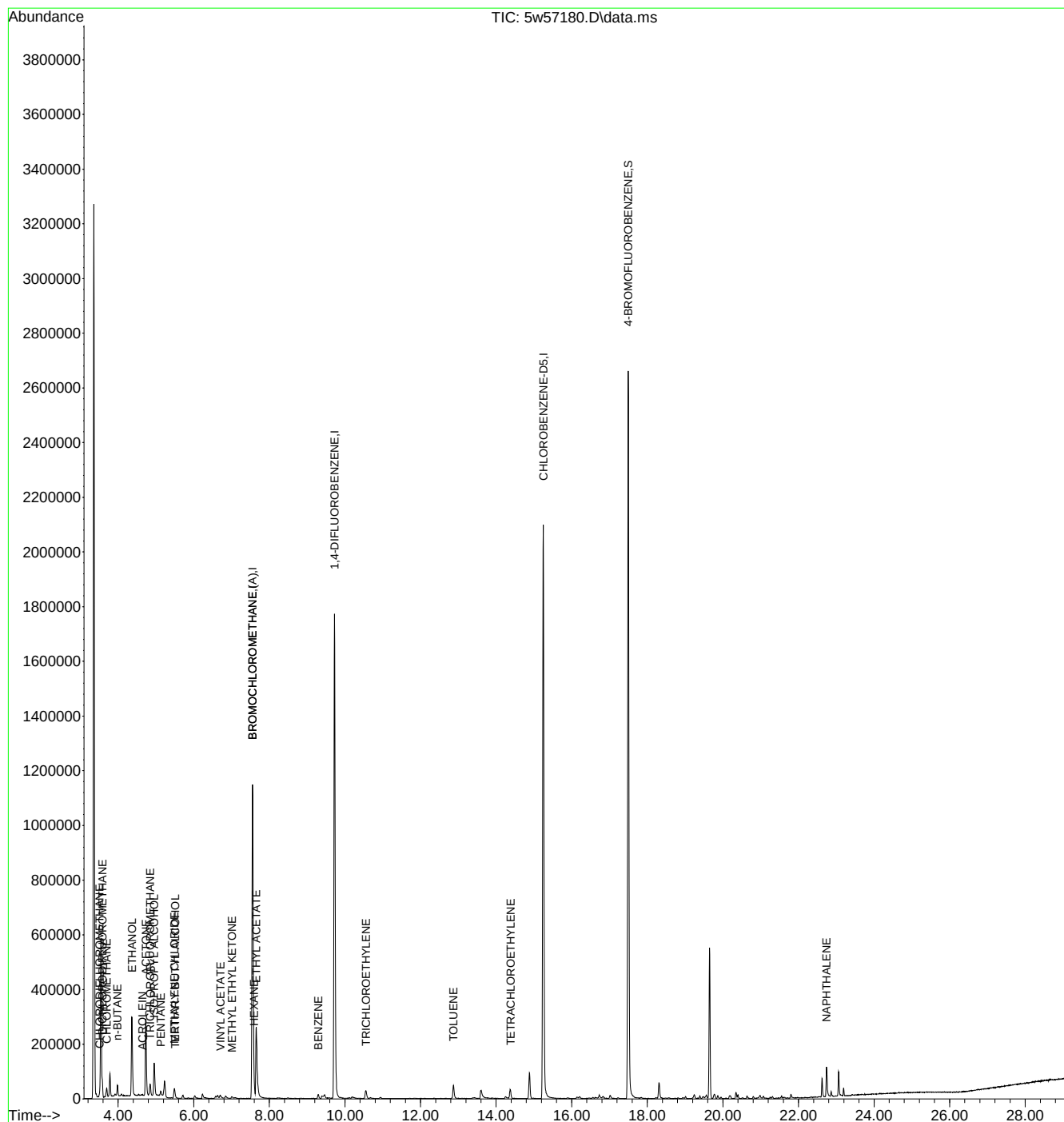
Quant Time: Mar 05 21:21:51 2025

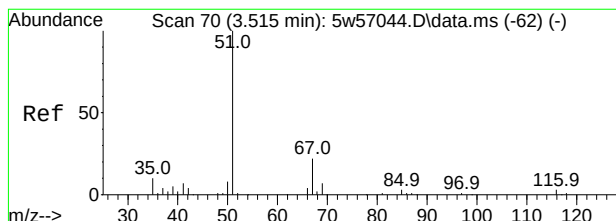
Quant Method : C:\msdchem\1\methods\M5w2187.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 14:22:14 2025

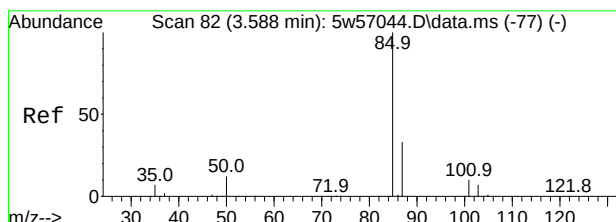
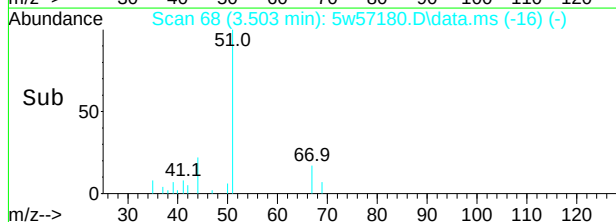
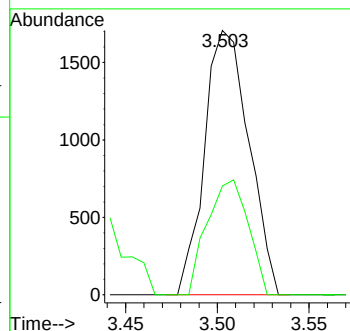
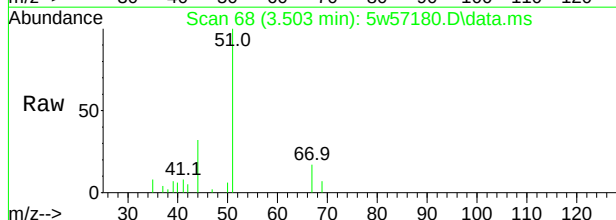
Response via : Initial Calibration





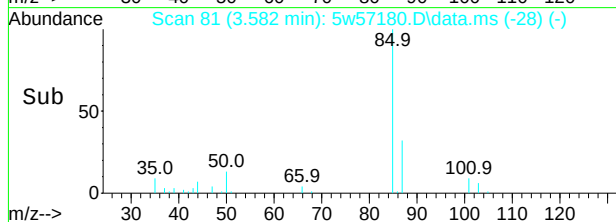
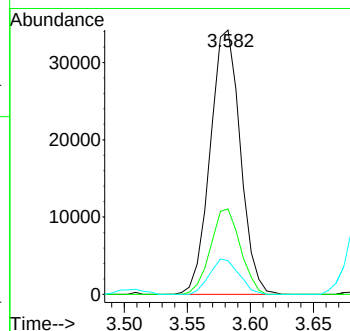
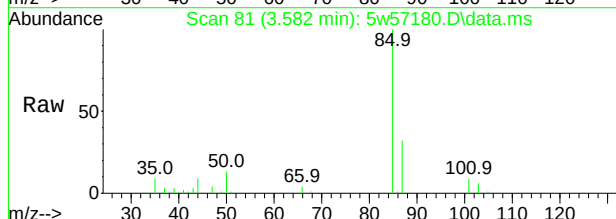
#4
 CHLORODIFLUOROMETHANE
 Concen: 0.2176 PPBV
 RT: 3.503 min Scan# 68
 Delta R.T. -0.012 min
 Lab File: 5w57180.D
 Acq: 4 Mar 2025 11:15 pm

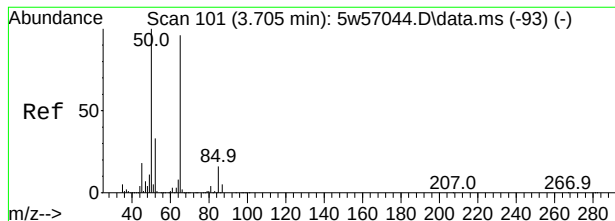
Tgt Ion	Ratio	Lower	Upper
67	100		
69	41.1	2.3	62.3



#6
 DICHLORODIFLUOROMETHANE
 Concen: 0.4768 PPBV
 RT: 3.582 min Scan# 81
 Delta R.T. -0.006 min
 Lab File: 5w57180.D
 Acq: 4 Mar 2025 11:15 pm

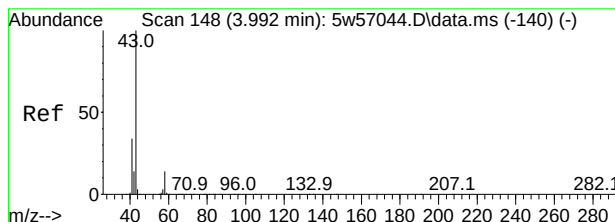
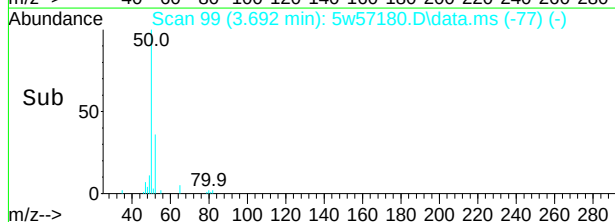
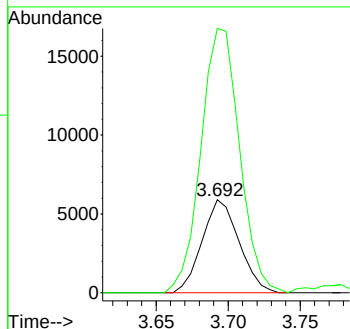
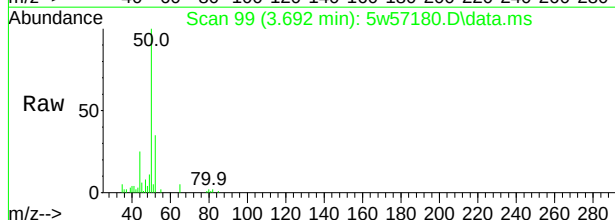
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.1	2.7	62.7
50	13.1	0.0	42.6





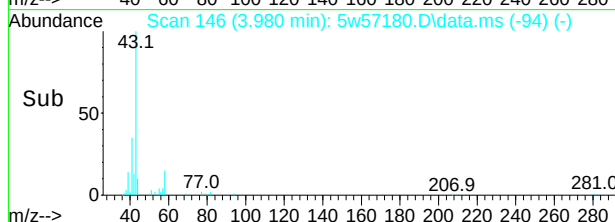
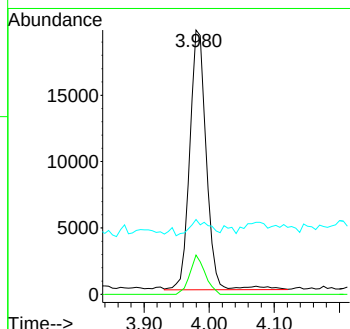
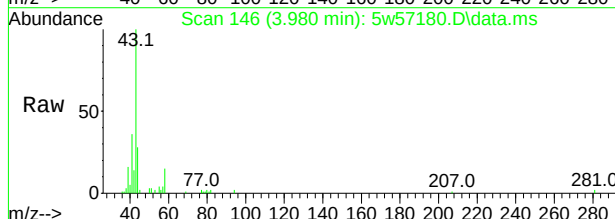
#10
CHLOROMETHANE
Concen: 0.6972 PPBV
RT: 3.692 min Scan# 99
Delta R.T. -0.013 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

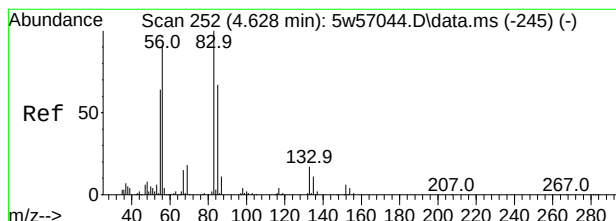
Tgt Ion: 52 Resp: 10555
Ion Ratio Lower Upper
52 100
50 284.3 269.7 329.7



#13
n-BUTANE
Concen: 0.6983 PPBV
RT: 3.980 min Scan# 146
Delta R.T. -0.012 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

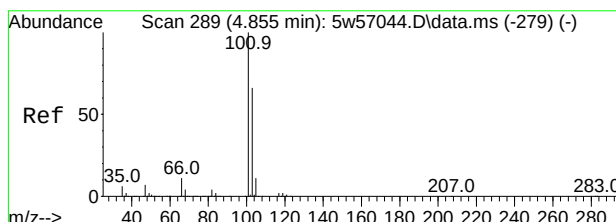
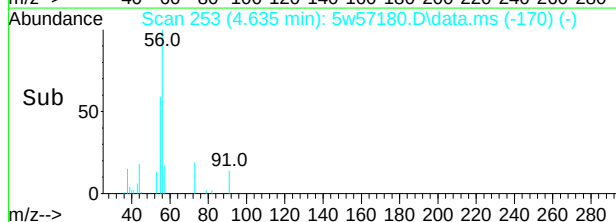
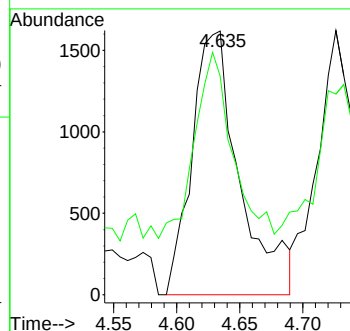
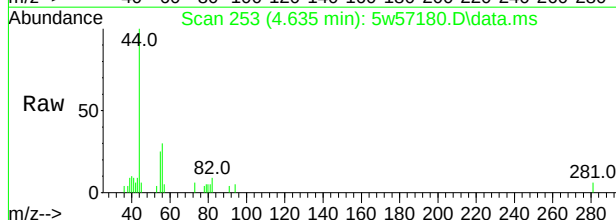
Tgt Ion: 43 Resp: 34549
Ion Ratio Lower Upper
43 100
58 13.9 0.0 43.8
44 5.6 0.0 35.5





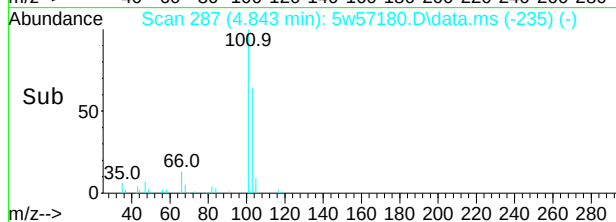
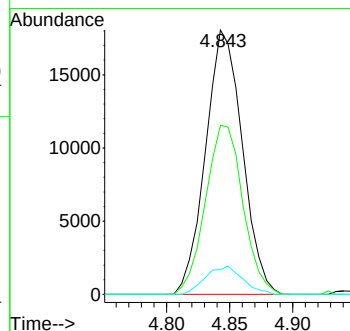
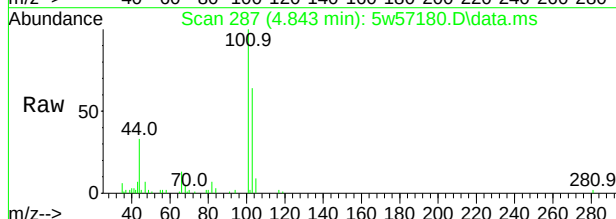
#18
ACROLEIN
Concen: 0.2615 PPBV
RT: 4.635 min Scan# 253
Delta R.T. 0.007 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

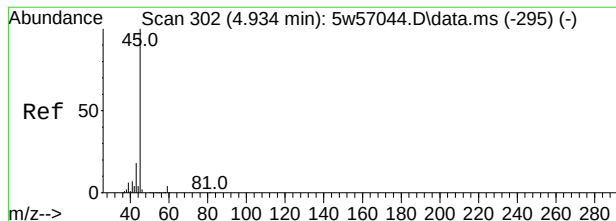
Tgt Ion: 56 Resp: 4253
Ion Ratio Lower Upper
56 100
55 55.0 46.8 86.8



#21
TRICHLOROFLUOROMETHANE
Concen: 0.3131 PPBV
RT: 4.843 min Scan# 287
Delta R.T. -0.012 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

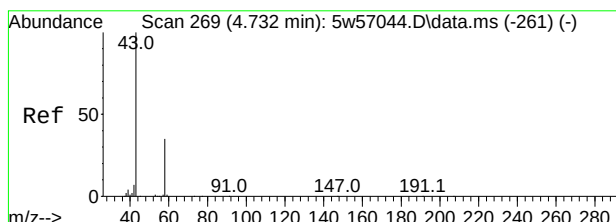
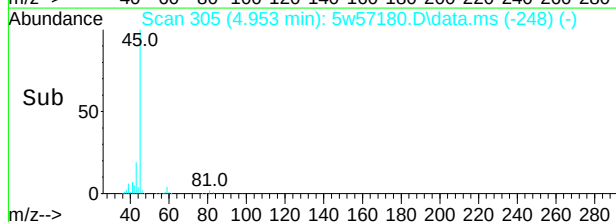
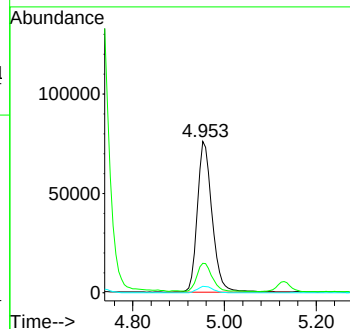
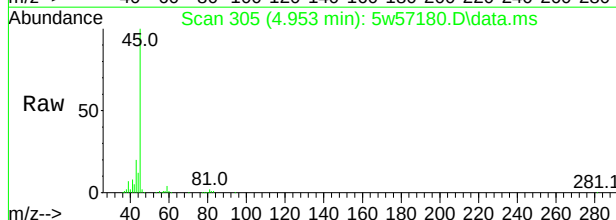
Tgt Ion: 101 Resp: 36548
Ion Ratio Lower Upper
101 100
103 65.0 35.5 95.5
105 10.8 0.0 40.8





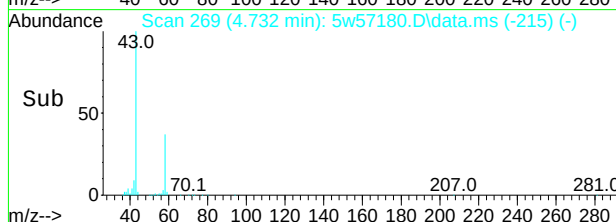
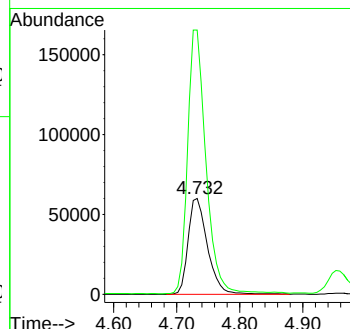
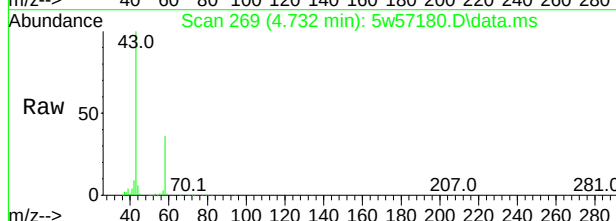
#22
ISOPROPYL ALCOHOL
Concen: 2.2011 PPBV
RT: 4.953 min Scan# 305
Delta R.T. 0.019 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

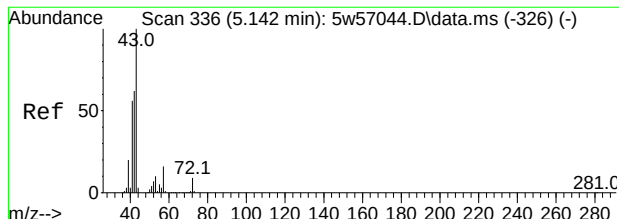
Tgt	Ion: 45	Resp:	169944
Ion	Ratio	Lower	Upper
45	100		
43	19.5	0.0	48.5
59	4.4	0.0	34.2



#23
ACETONE
Concen: 6.6678 PPBV
RT: 4.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

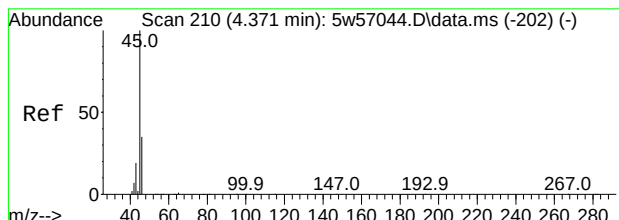
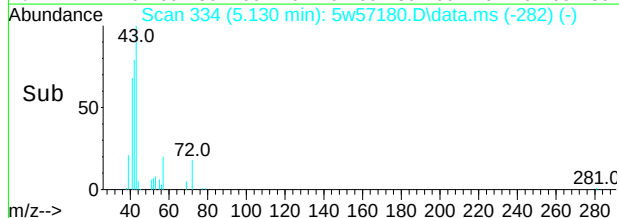
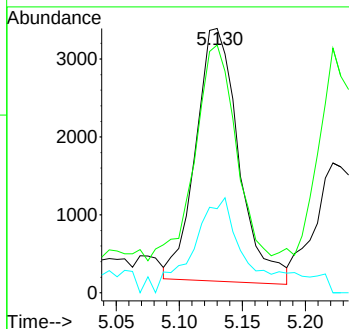
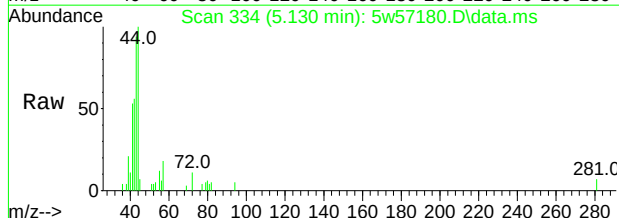
Tgt	Ion: 58	Resp:	128899
Ion	Ratio	Lower	Upper
58	100		
43	259.7	0.0	32.7#





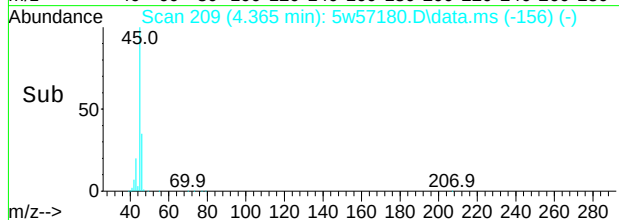
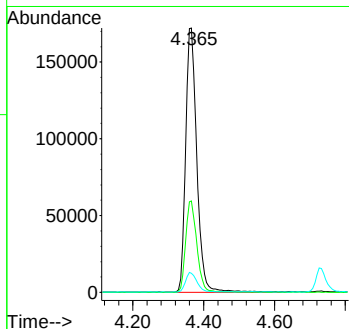
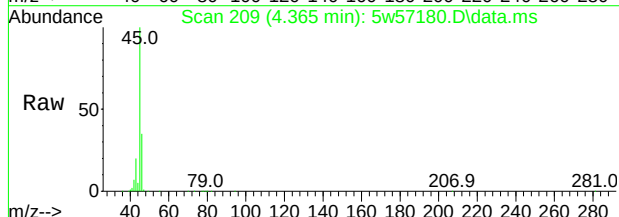
#24
PENTANE
Concen: 0.2183 PPBV
RT: 5.130 min Scan# 334
Delta R.T. -0.012 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

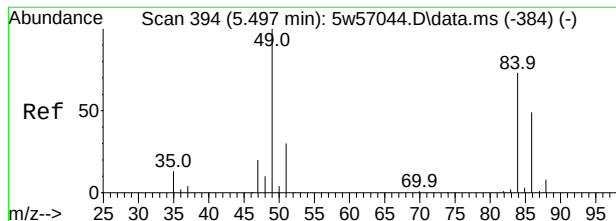
Tgt Ion:	42	Resp:	7681
Ion Ratio	Lower	Upper	
42	100		
41	94.3	62.9	122.9
57	49.0	0.0	57.4



#28
ETHANOL
Concen: 19.8108 PPBV
RT: 4.365 min Scan# 209
Delta R.T. -0.006 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

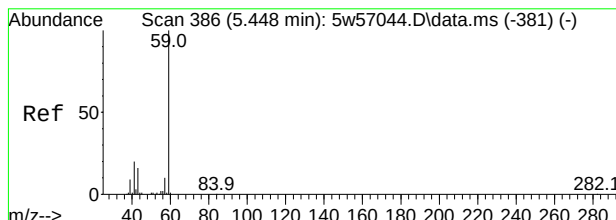
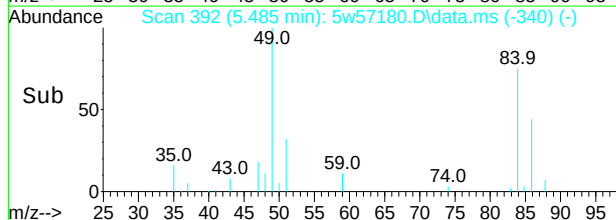
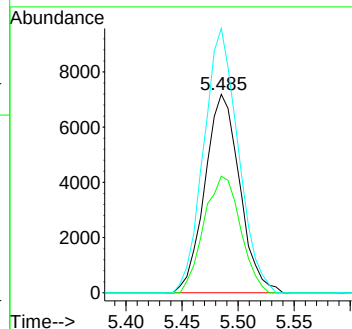
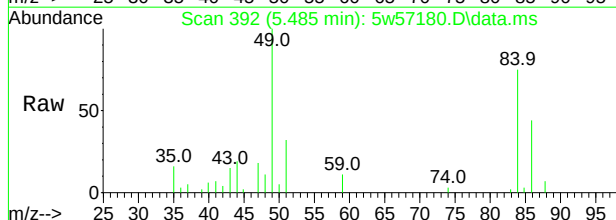
Tgt Ion:	45	Resp:	380535
Ion Ratio	Lower	Upper	
45	100		
46	34.8	5.4	65.4
42	7.4	0.0	37.7





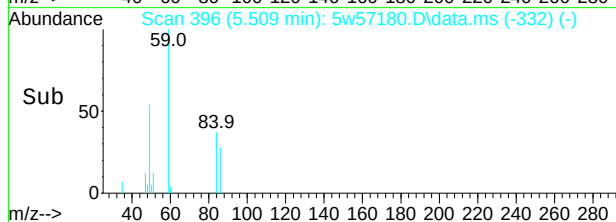
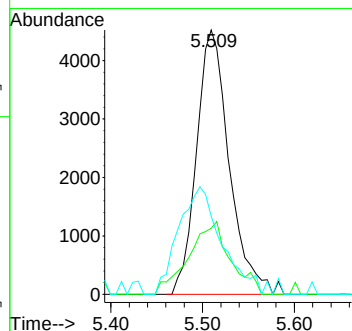
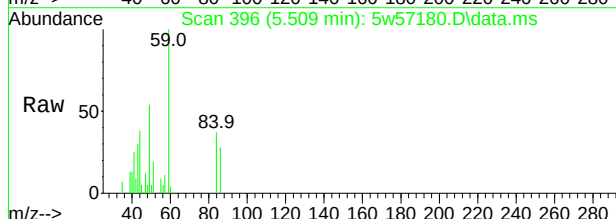
#31
METHYLENE CHLORIDE
Concen: 0.4290 PPBV
RT: 5.485 min Scan# 392
Delta R.T. -0.012 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

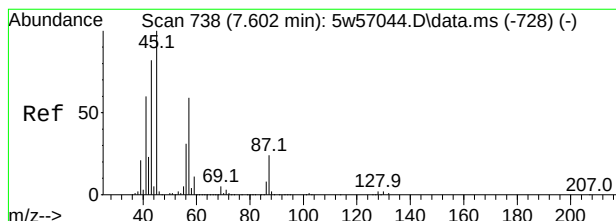
Tgt Ion: 84 Resp: 15577
Ion Ratio Lower Upper
84 100
86 61.4 36.1 96.1
49 132.0 106.2 166.2



#35
TERTIARY BUTYL ALCOHOL
Concen: 0.1446 PPBV
RT: 5.509 min Scan# 396
Delta R.T. 0.061 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

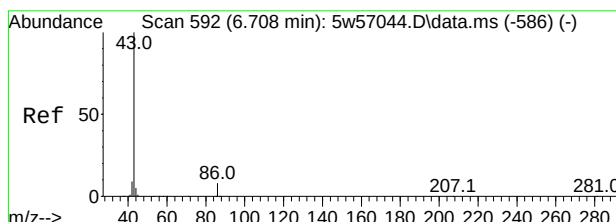
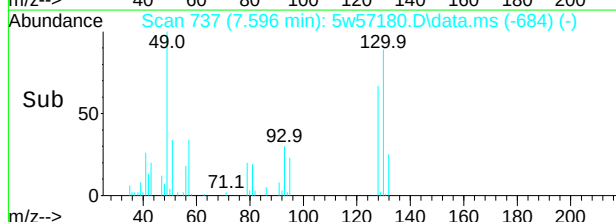
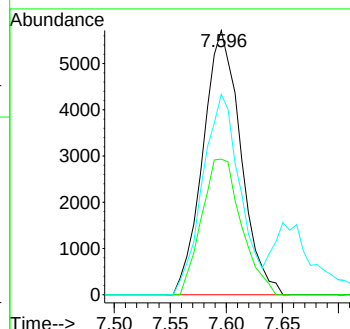
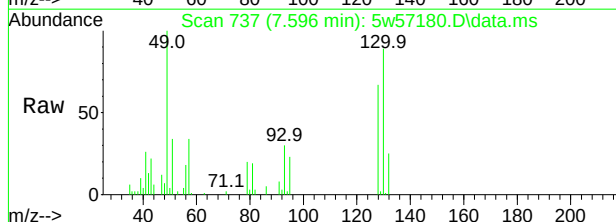
Tgt Ion: 59 Resp: 11242
Ion Ratio Lower Upper
59 100
41 35.1 0.0 51.8
43 53.5 0.0 45.4#





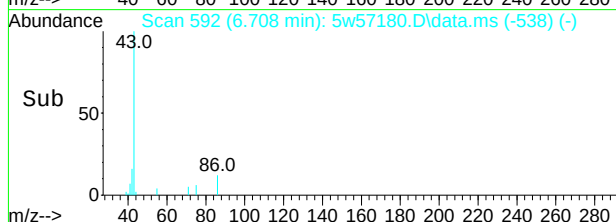
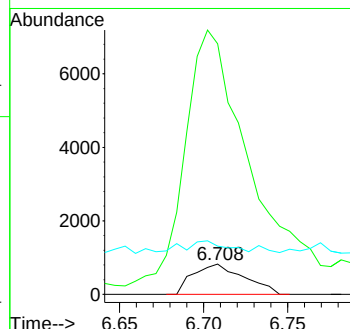
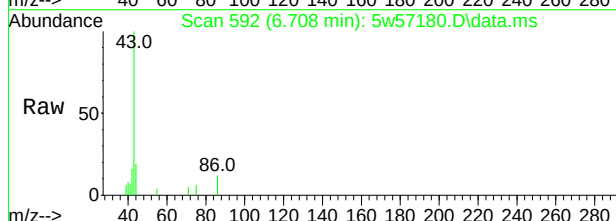
#38
HEXANE
Concen: 0.2099 PPBV
RT: 7.596 min Scan# 737
Delta R.T. -0.006 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

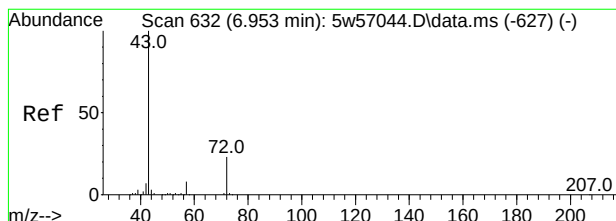
Tgt Ion	Ratio	Lower	Upper
57	100		
56	53.9	25.5	85.5
41	75.1	78.7	138.7#



#39
VINYL ACETATE
Concen: 0.2643 PPBV
RT: 6.708 min Scan# 592
Delta R.T. 0.000 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

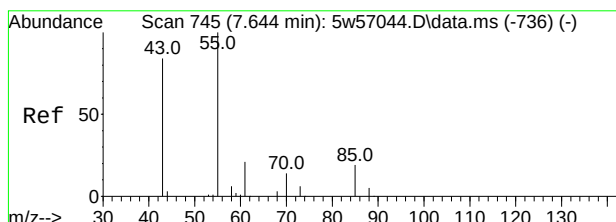
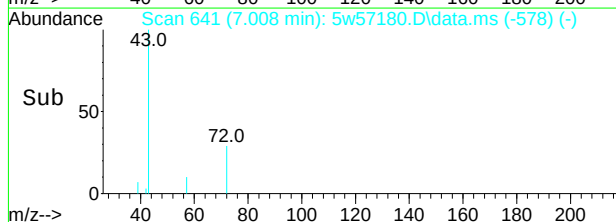
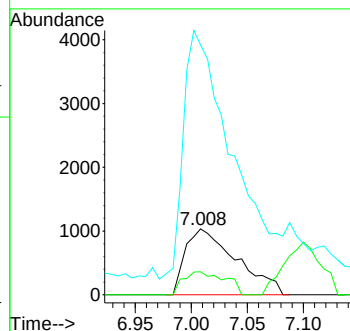
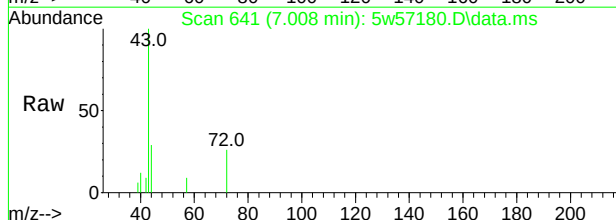
Tgt Ion	Ratio	Lower	Upper
86	100		
43	1209.6	1200.5	1260.5
44	0.0	31.2	91.2#





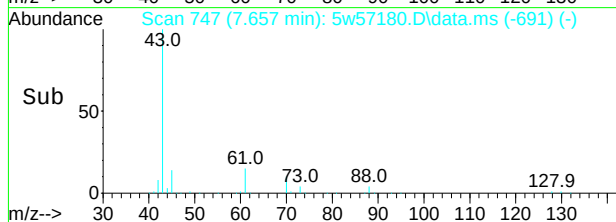
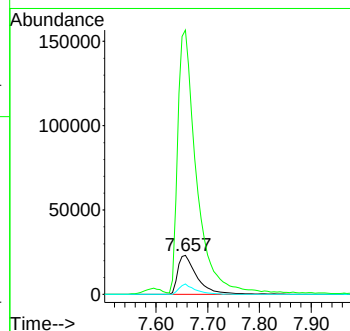
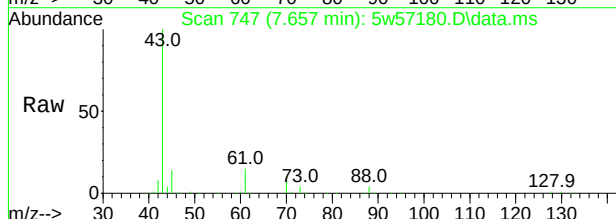
#41
METHYL ETHYL KETONE
Concen: 0.2179 PPBV
RT: 7.008 min Scan# 641
Delta R.T. 0.055 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

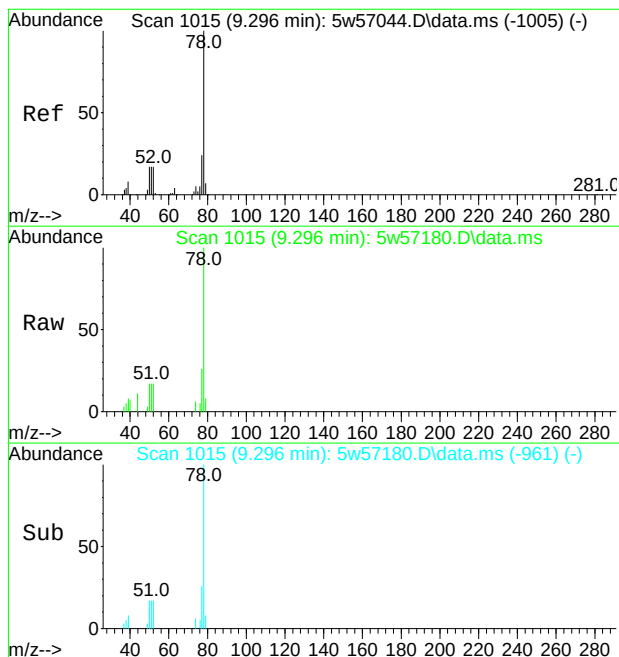
Tgt Ion: 72 Resp: 3280
Ion Ratio Lower Upper
72 100
57 34.8 3.9 63.9
43 378.8 401.3 461.3#



#44
ETHYL ACETATE
Concen: 5.2119 PPBV
RT: 7.657 min Scan# 747
Delta R.T. 0.013 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

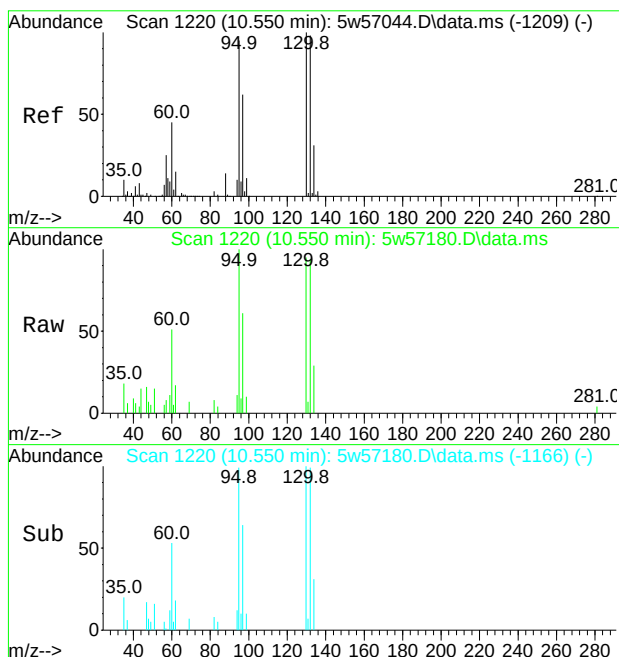
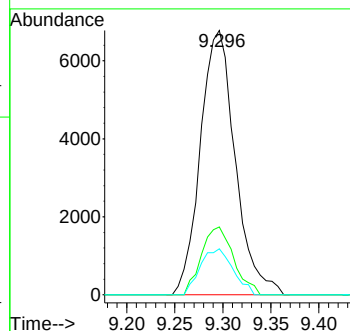
Tgt Ion: 61 Resp: 60388
Ion Ratio Lower Upper
61 100
43 657.3 0.0 30.0#
88 21.8 7.2 67.2





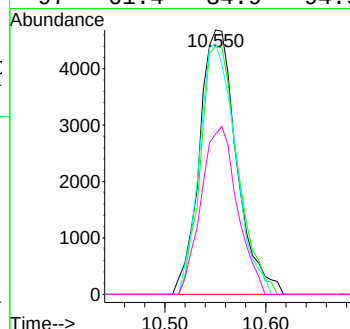
#52
BENZENE
Concen: 0.1395 PPBV
RT: 9.296 min Scan# 1015
Delta R.T. 0.000 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

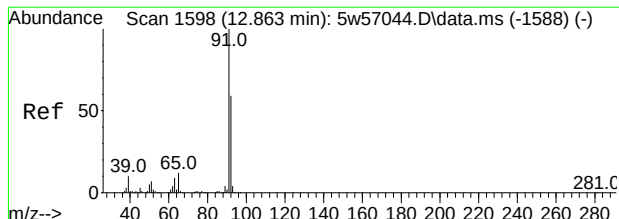
Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	0.0	53.7
52	16.3	0.0	46.4



#55
TRICHLOROETHYLENE
Concen: 0.1898 PPBV
RT: 10.550 min Scan# 1220
Delta R.T. 0.000 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

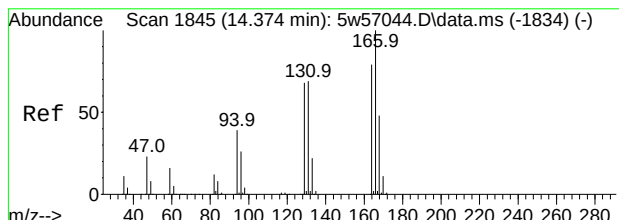
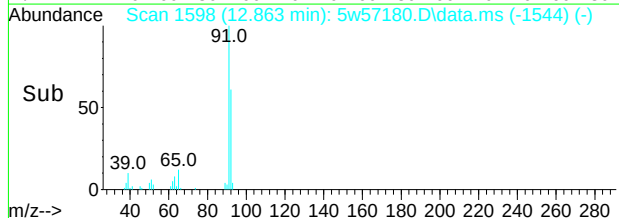
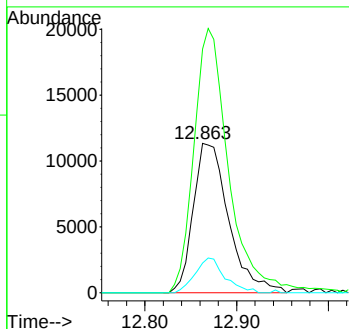
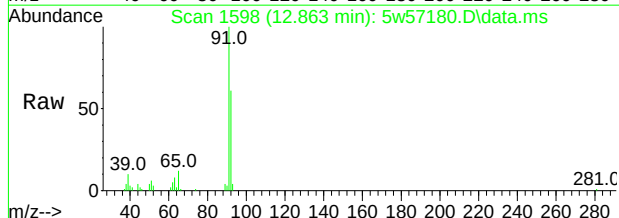
Tgt Ion	Ratio	Lower	Upper
95	100		
132	93.0	74.4	134.4
130	92.2	77.2	137.2
97	61.4	34.9	94.9





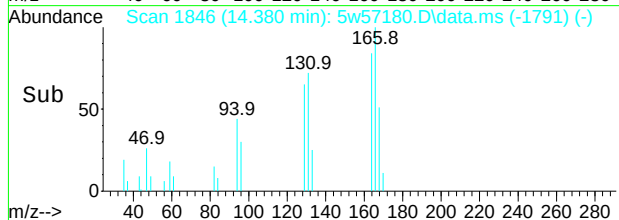
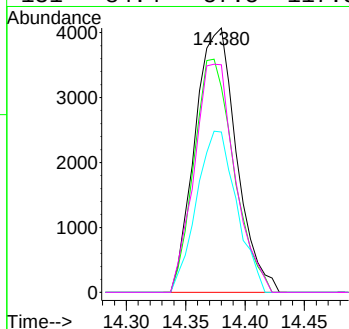
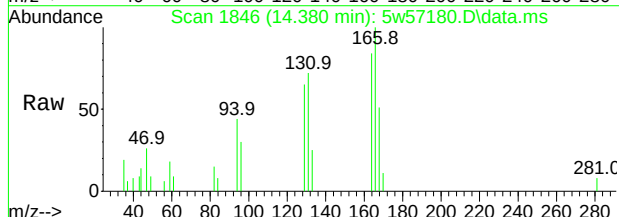
#66
TOLUENE
Concen: 0.3345 PPBV
RT: 12.863 min Scan# 1598
Delta R.T. -0.000 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

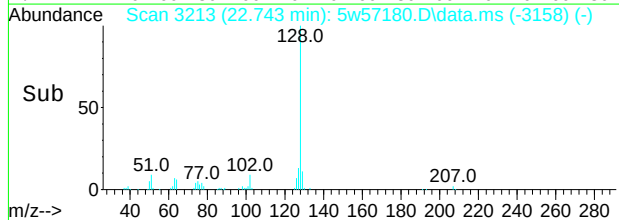
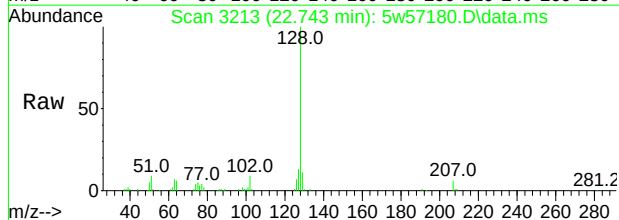
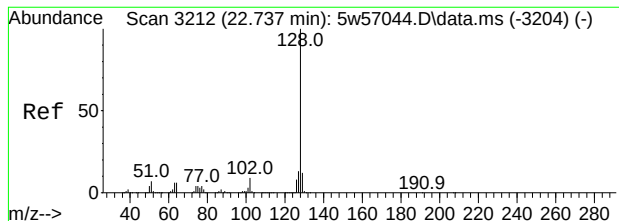
Tgt Ion:	92	Resp:	30526
Ion	Ratio	Lower	Upper
92	100		
91	174.5	140.2	200.2
65	19.5	0.0	52.3



#73
TETRACHLOROETHYLENE
Concen: 0.1451 PPBV
RT: 14.380 min Scan# 1846
Delta R.T. 0.006 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

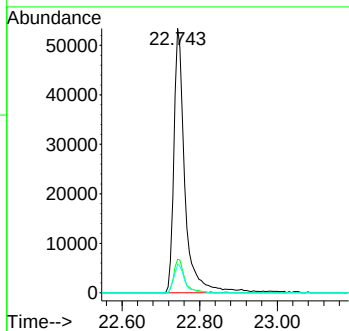
Tgt Ion:	164	Resp:	9914
Ion	Ratio	Lower	Upper
164	100		
129	84.5	58.7	118.7
168	58.6	31.6	91.6
131	84.4	57.5	117.5





#108
NAPHTHALENE
Concen: 0.4147 PPBV
RT: 22.743 min Scan# 3213
Delta R.T. 0.006 min
Lab File: 5w57180.D
Acq: 4 Mar 2025 11:15 pm

Tgt	Ion:128	Resp:	106406
Ion	Ratio	Lower	Upper
128	100		
127	12.1	0.0	43.0
129	10.3	0.0	41.4



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13238.D
Acq On : 7 Mar 2025 1:12 am
Operator : williamc
Sample : je5976-4 Inst : MS7W
Misc : MS89870,v7w465,100,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 08 06:26:24 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

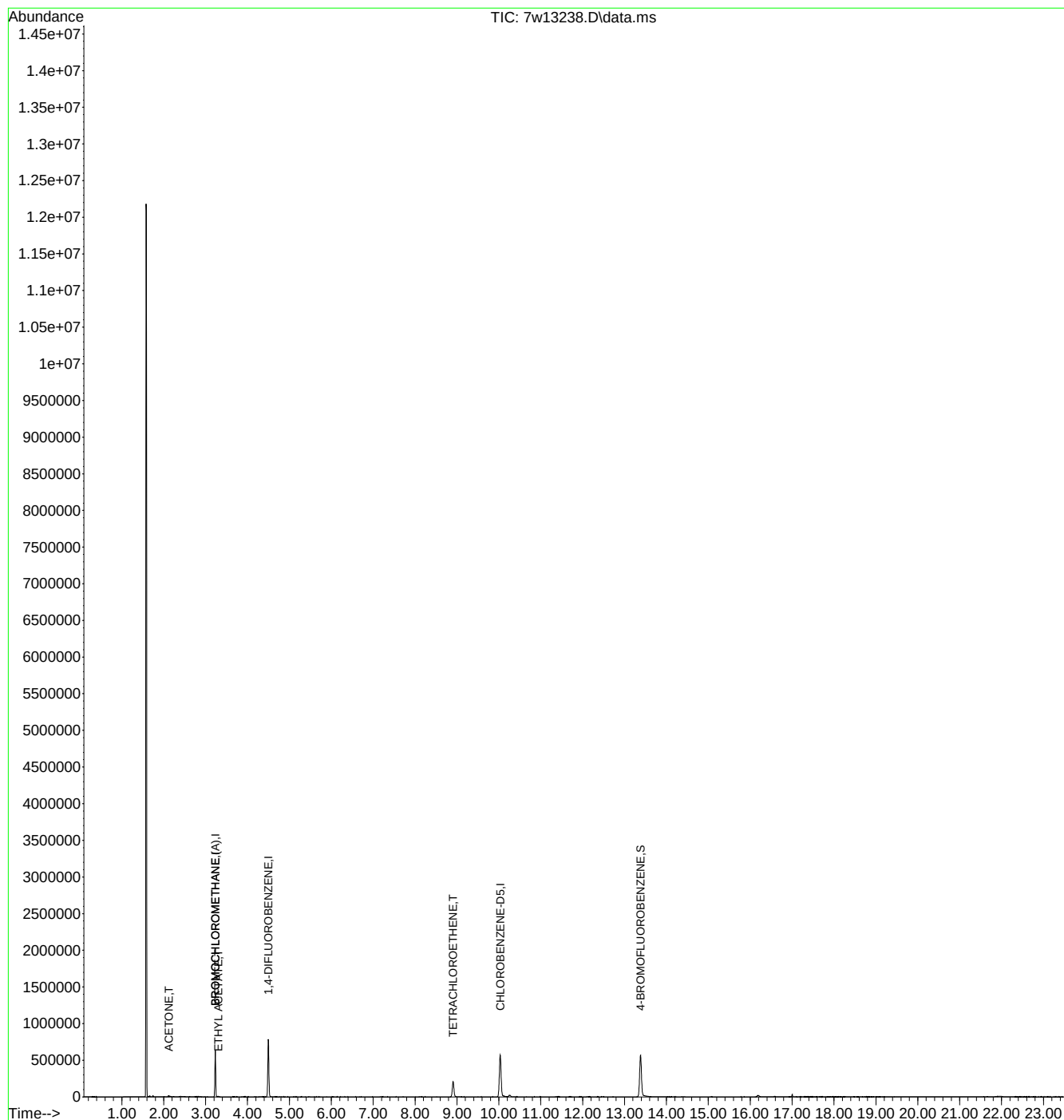
Internal Standards						
1) BROMOCHLOROMETHANE	3.232	128	131834	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.496	114	634064	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.029	117	587464	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.232	128	131834	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.380	95	401946	9.43	PPBV	0.00
Target Compounds						
					Qvalue	
23) ACETONE	2.117	58	3322	0.4337	PPBV #	43
44) ETHYL ACETATE	3.303	61	996	0.2394	PPBV #	1
72) TETRACHLOROETHENE	8.904	164	81820	4.8199	PPBV	96

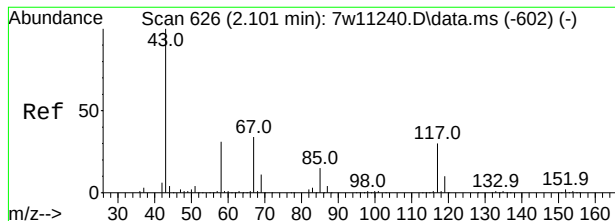
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13238.D
Acq On : 7 Mar 2025 1:12 am
Operator : williamc
Sample : je5976-4 Inst : MS7W
Misc : MS89870,v7w465,100,,,1
ALS Vial : 7 Sample Multiplier: 1

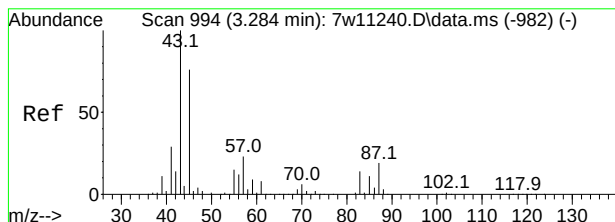
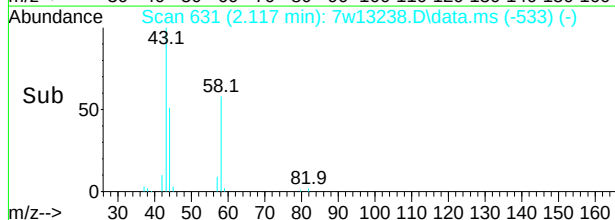
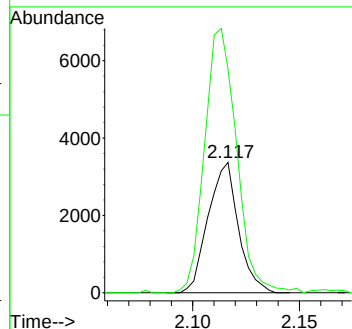
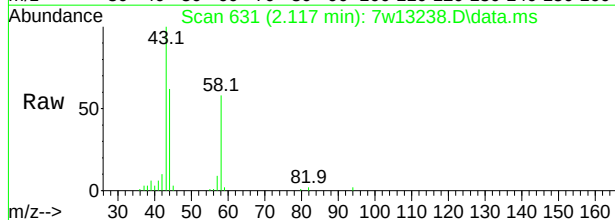
Quant Time: Mar 08 06:26:24 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration





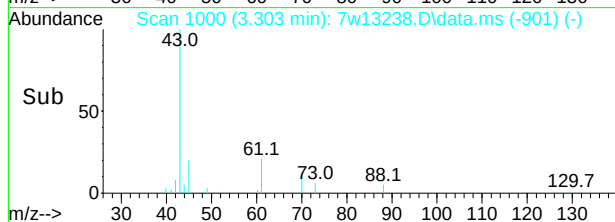
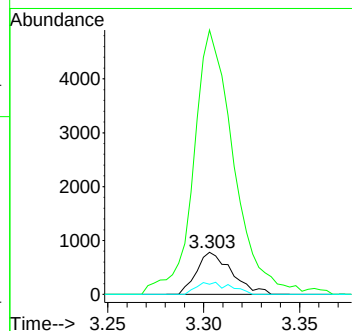
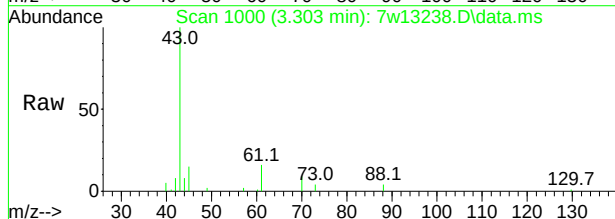
#23
ACETONE
Concen: 0.4337 PPBV
RT: 2.117 min Scan# 631
Delta R.T. 0.016 min
Lab File: 7w13238.D
Acq: 7 Mar 2025 1:12 am

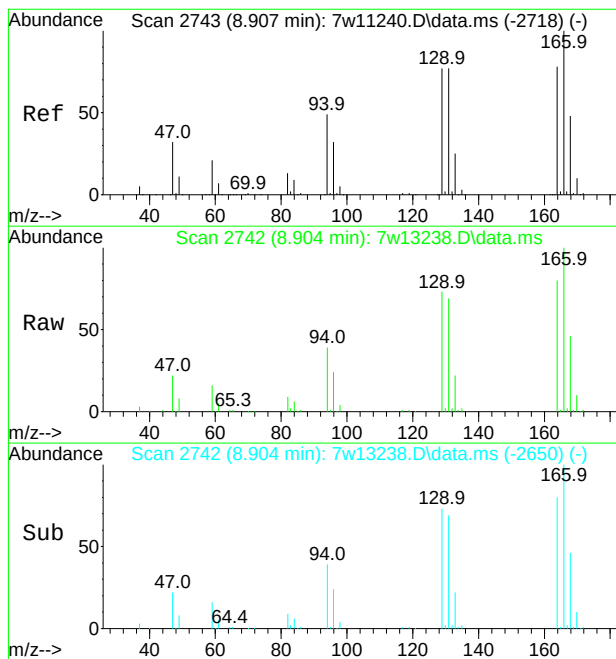
Tgt Ion: 58 Resp: 3322
Ion Ratio Lower Upper
58 100
43 214.4 234.4 435.2#



#44
ETHYL ACETATE
Concen: 0.2394 PPBV
RT: 3.303 min Scan# 1000
Delta R.T. 0.019 min
Lab File: 7w13238.D
Acq: 7 Mar 2025 1:12 am

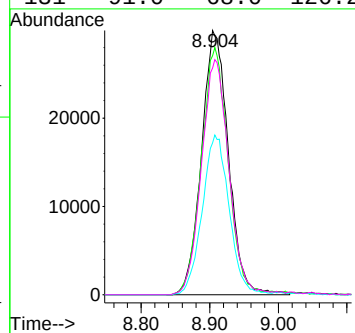
Tgt Ion: 61 Resp: 996
Ion Ratio Lower Upper
61 100
43 725.1 1005.1 1866.5#
88 27.7 29.3 54.5#





#72
TETRACHLOROETHENE
Concen: 4.8199 PPBV
RT: 8.904 min Scan# 2742
Delta R.T. -0.003 min
Lab File: 7w13238.D
Acq: 7 Mar 2025 1:12 am

Tgt Ion:	164	Resp:	81820
Ion Ratio	Lower	Upper	
164	100		
129	94.2	68.9	127.9
168	60.2	42.3	78.5
131	91.0	68.0	126.2



Quantitation Report (QT Reviewed)

Data Path : R:\MSV0A\Done\Batch\2025\3. March\03-05-2025\antonettec\V5W2194\
Data File : 5w57182.D
Acq On : 5 Mar 2025 1:06 am
Operator : thomash
Sample : je5976-5 Inst : GCMS5W
Misc : MS89870,V5W2194,400,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 06 18:51:08 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

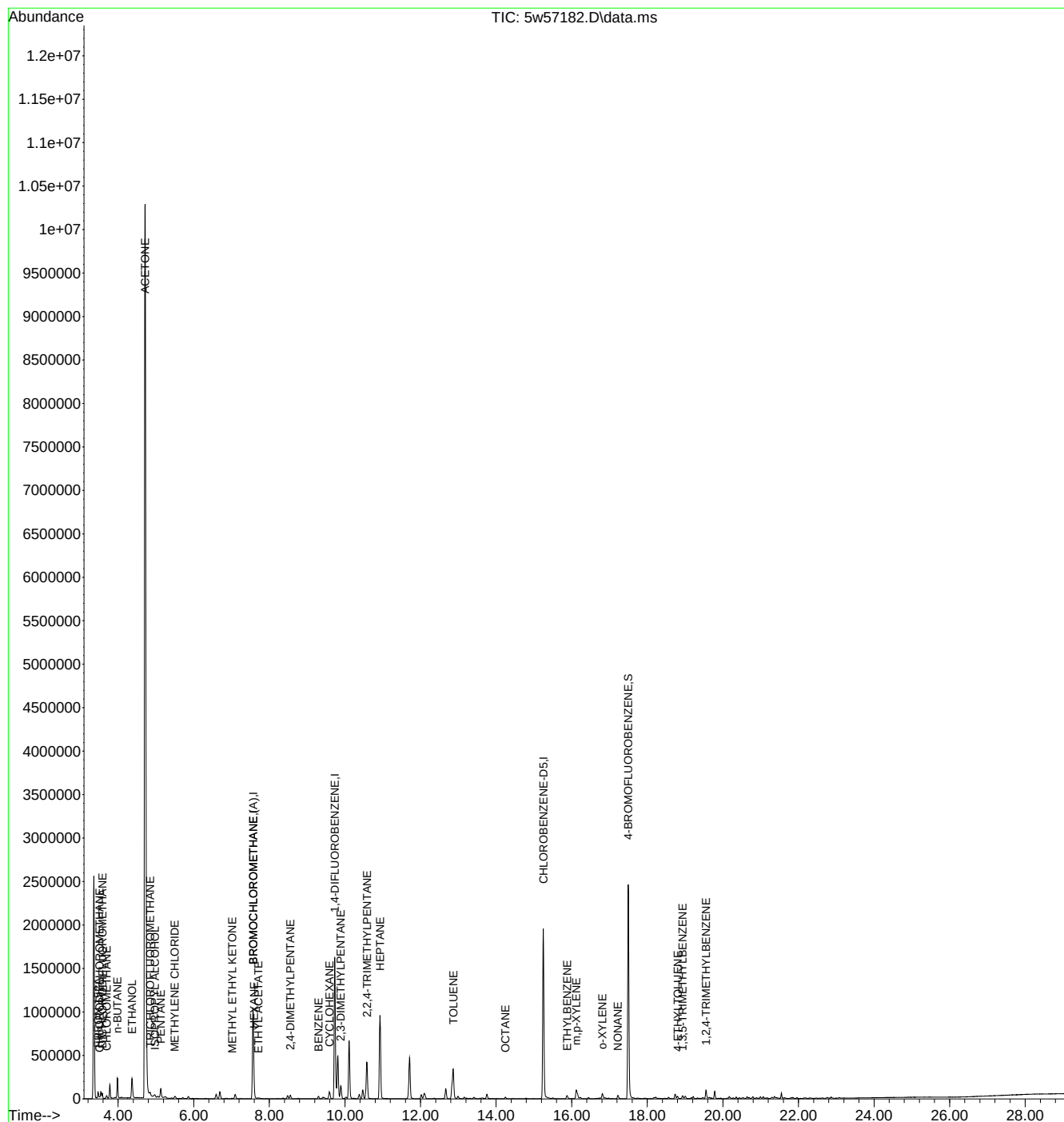
Internal Standards							
1)	BROMOCHLOROMETHANE	7.571	128	329808	10.00	PPBV	0.00
51)	1,4-DIFLUOROBENZENE	9.731	114	1602611	10.00	PPBV	0.00
70)	CHLOROBENZENE-D5	15.249	82	781011	10.00	PPBV	0.00
109)	BROMOCHLOROMETHANE (A)	7.571	128	329808	10.00	PPBV	# 0.00
System Monitoring Compounds							
85)	4-BROMOFLUOROBENZENE	17.494	95	1052498	10.45	PPBV	0.00
Spiked Amount 10.000		Range	65 - 128	Recovery	=	104.50%	
Target Compounds							
						Qvalue	
3)	FREON 152A	3.472	65	31660	1.2399	PPBV	98
4)	CHLORODIFLUOROMETHANE	3.503	67	3182	0.2739	PPBV	81
6)	DICHLORODIFLUOROMETHANE	3.582	85	57787	0.5537	PPBV	99
10)	CHLOROMETHANE	3.692	52	10218	0.7695	PPBV	95
13)	n-BUTANE	3.980	43	196199	4.5210	PPBV	99
21)	TRICHLOROFLUOROMETHANE	4.842	101	28144	0.2749	PPBV	99
22)	ISOPROPYL ALCOHOL	4.971	45	39630	0.5852	PPBV	# 12
23)	ACETONE	4.708	58	6298167	371.4506	PPBV	# 1
24)	PENTANE	5.130	42	43622	1.4135	PPBV	92
28)	ETHANOL	4.365	45	300897	17.8599	PPBV	100
31)	METHYLENE CHLORIDE	5.497	84	7377	0.2316	PPBV	92
38)	HEXANE	7.595	57	36283	0.6468	PPBV	# 80
41)	METHYL ETHYL KETONE	7.014	72	2980	0.2257	PPBV	95
44)	ETHYL ACETATE	7.706	61	1273	0.1253	PPBV	# 38
47)	2,4-DIMETHYLPENTANE	8.556	57	22436	0.3549	PPBV	94
52)	BENZENE	9.302	78	31212	0.2811	PPBV	100
53)	CYCLOHEXANE	9.590	84	33371	0.7385	PPBV	94
54)	2,3-DIMETHYLPENTANE	9.890	71	29101	1.2916	PPBV	98
60)	2,2,4-TRIMETHYLPENTANE	10.581	57	433650	2.4833	PPBV	86
62)	HEPTANE	10.930	43	469132	7.8741	PPBV	98
66)	TOLUENE	12.863	92	177297	2.1508	PPBV	97
76)	OCTANE	14.245	43	9957	0.1206	PPBV	92
79)	ETHYLBENZENE	15.879	91	42157	0.2473	PPBV	97
80)	m,p-XYLENE	16.117	106	61068	0.8920	PPBV	95
81)	o-XYLENE	16.815	106	24181	0.3685	PPBV	92
83)	NONANE	17.225	43	20824	0.2315	PPBV	90
92)	4-ETHYLTOLUENE	18.803	105	23119	0.1218	PPBV	94
93)	1,3,5-TRIMETHYLBENZENE	18.938	105	19072	0.1155	PPBV	92
96)	1,2,4-TRIMETHYLBENZENE	19.549	105	63668	0.3885	PPBV	# 35

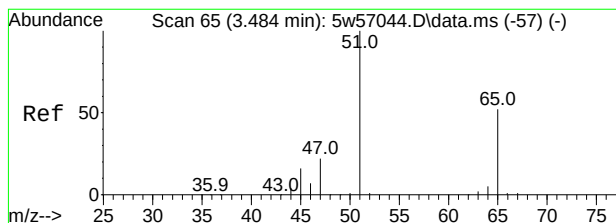
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : R:\MSV0A\Done\Batch\2025\3. March\03-05-2025\antonettec\V5W2194\  
Data File : 5w57182.D  
Acq On    : 5 Mar 2025    1:06 am  
Operator  : thomash  
Sample    : je5976-5                      Inst      : GCMS5W  
Misc      : MS89870,V5W2194,400,,,,,1  
ALS Vial  : 4      Sample Multiplier: 1
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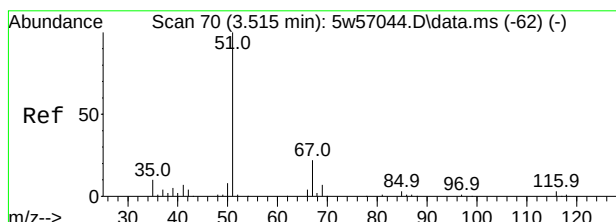
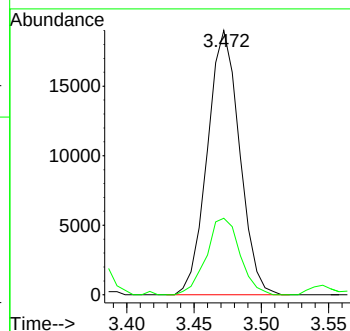
Quant Time: Mar 06 18:51:08 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration





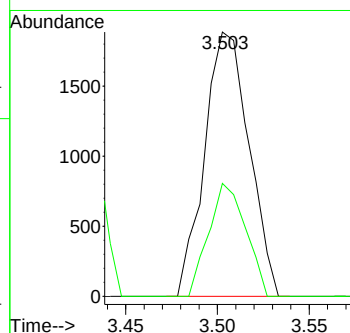
#3
FREON 152A
Concen: 1.2399 PPBV
RT: 3.472 min Scan# 63
Delta R.T. -0.012 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

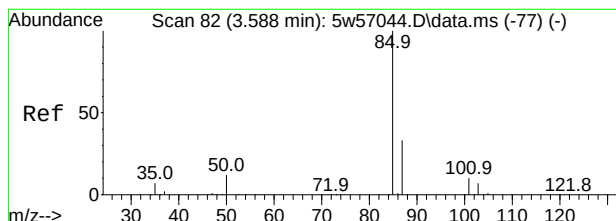
Tgt Ion: 65 Resp: 31660
Ion Ratio Lower Upper
65 100
45 30.2 1.3 61.3



#4
CHLORODIFLUOROMETHANE
Concen: 0.2739 PPBV
RT: 3.503 min Scan# 68
Delta R.T. -0.012 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

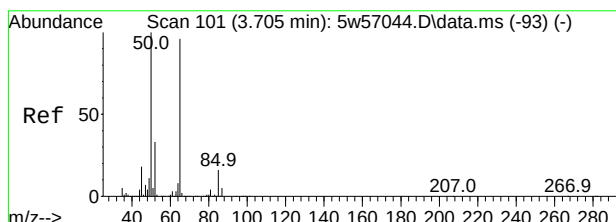
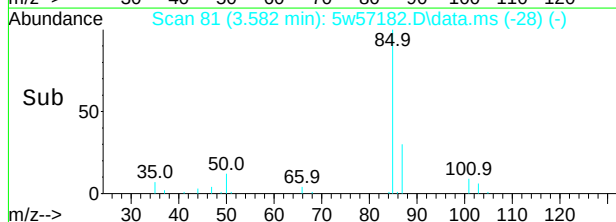
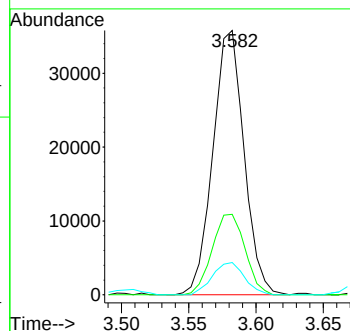
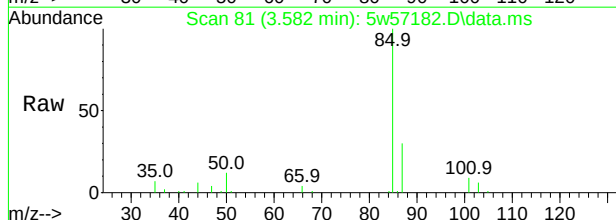
Tgt Ion: 67 Resp: 3182
Ion Ratio Lower Upper
67 100
69 42.7 2.3 62.3





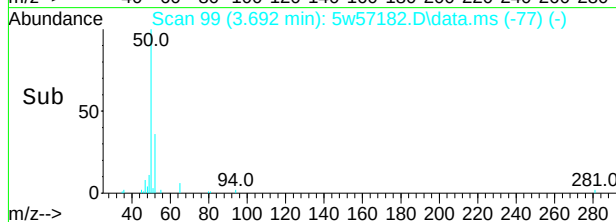
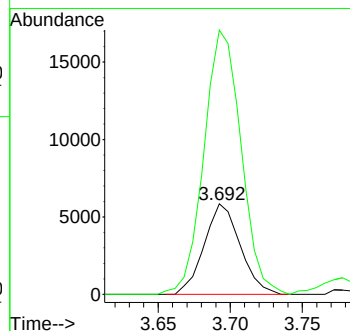
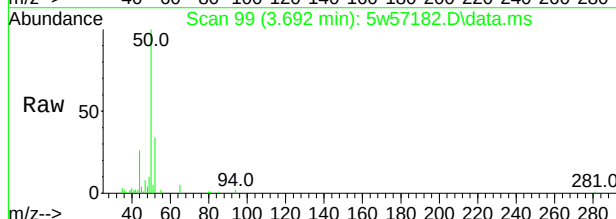
#6
 DICHLORODIFLUOROMETHANE
 Concen: 0.5537 PPBV
 RT: 3.582 min Scan# 81
 Delta R.T. -0.006 min
 Lab File: 5w57182.D
 Acq: 5 Mar 2025 1:06 am

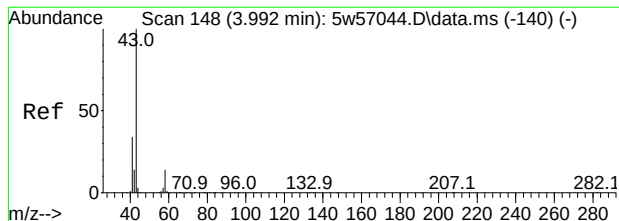
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.1	2.7	62.7
50	12.6	0.0	42.6



#10
 CHLOROMETHANE
 Concen: 0.7695 PPBV
 RT: 3.692 min Scan# 99
 Delta R.T. -0.013 min
 Lab File: 5w57182.D
 Acq: 5 Mar 2025 1:06 am

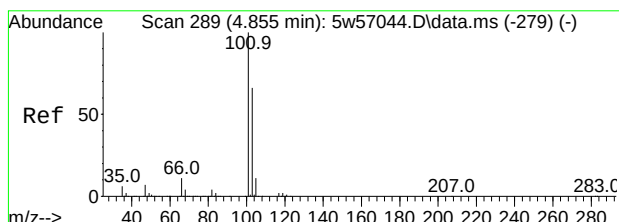
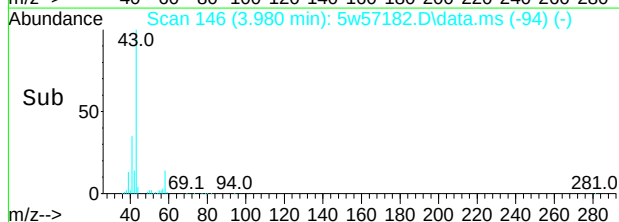
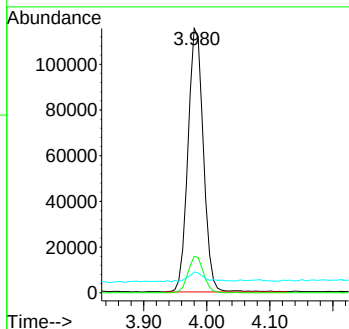
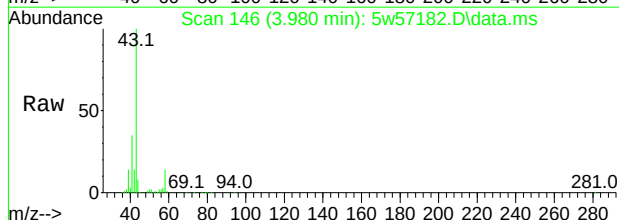
Tgt Ion	Ratio	Lower	Upper
52	100		
50	289.6	269.7	329.7





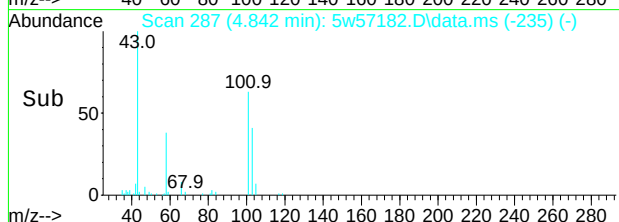
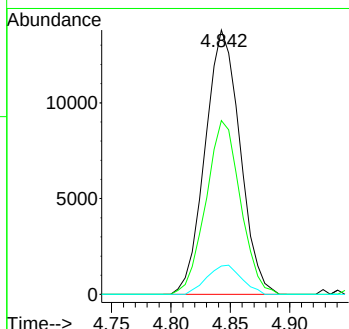
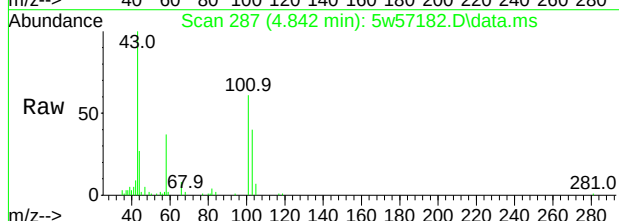
#13
n-BUTANE
Concen: 4.5210 PPBV
RT: 3.980 min Scan# 146
Delta R.T. -0.012 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

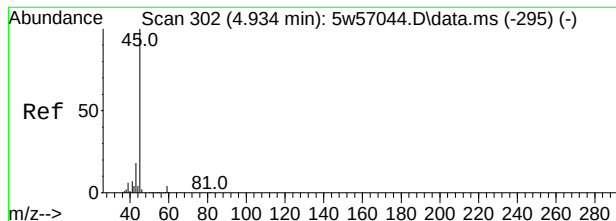
Tgt Ion: 43 Resp: 196199
Ion Ratio Lower Upper
43 100
58 13.9 0.0 43.8
44 4.7 0.0 35.5



#21
TRICHLOROFLUOROMETHANE
Concen: 0.2749 PPBV
RT: 4.842 min Scan# 287
Delta R.T. -0.013 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

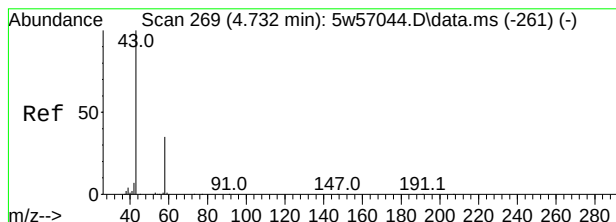
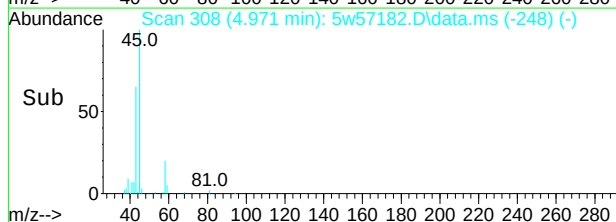
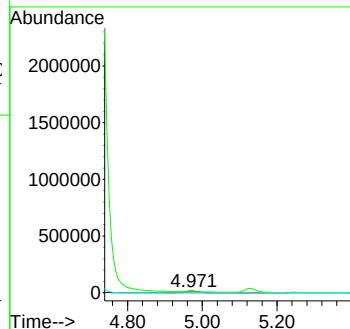
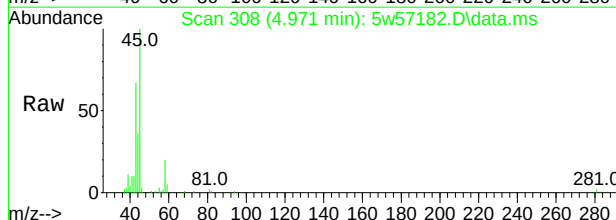
Tgt Ion: 101 Resp: 28144
Ion Ratio Lower Upper
101 100
103 65.0 35.5 95.5
105 10.9 0.0 40.8





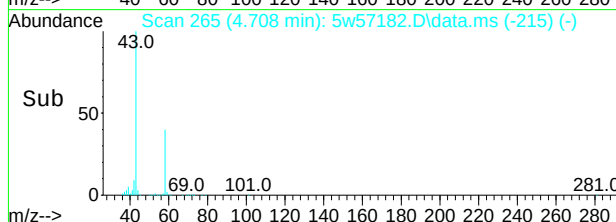
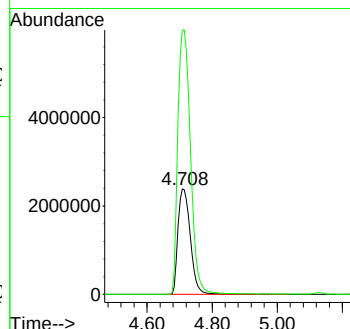
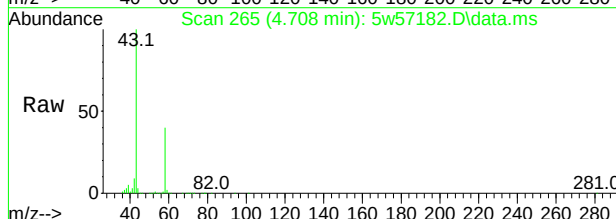
#22
ISOPROPYL ALCOHOL
Concen: 0.5852 PPBV
RT: 4.971 min Scan# 308
Delta R.T. 0.037 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

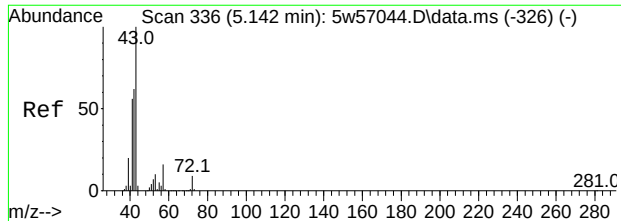
Tgt Ion: 45 Resp: 39630
Ion Ratio Lower Upper
45 100
43 66.8 0.0 48.5#
59 4.5 0.0 34.2



#23
ACETONE
Concen: 371.4506 PPBV
RT: 4.708 min Scan# 265
Delta R.T. -0.024 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

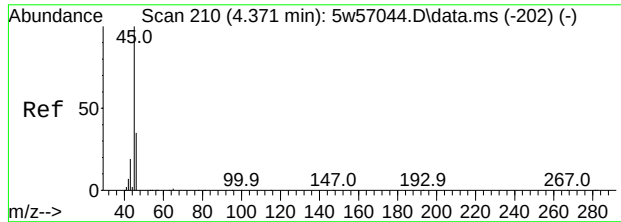
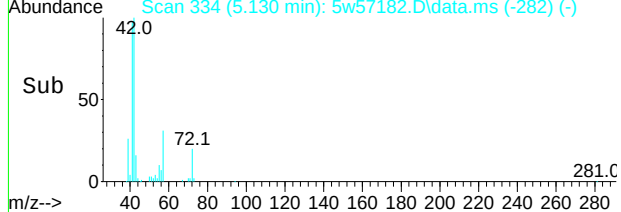
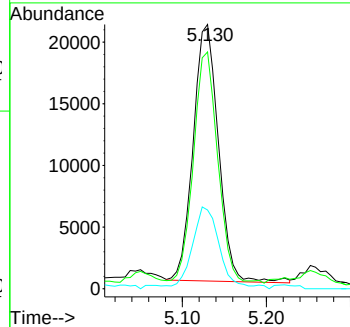
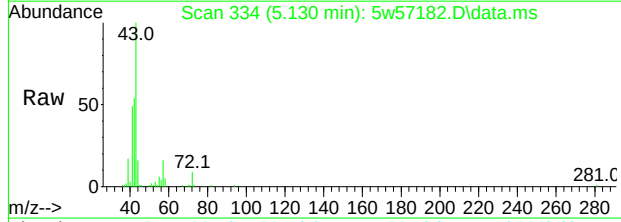
Tgt Ion: 58 Resp: 6298167
Ion Ratio Lower Upper
58 100
43 258.2 0.0 32.7#





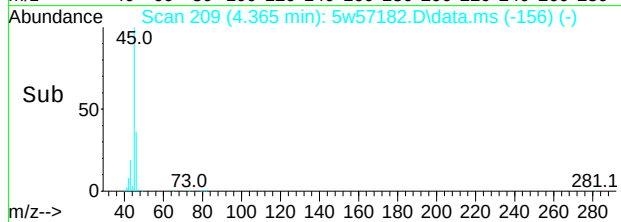
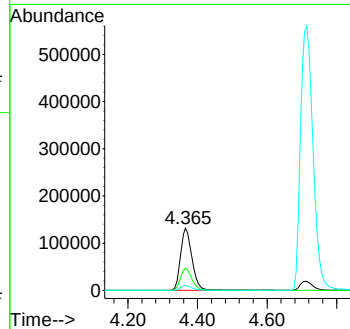
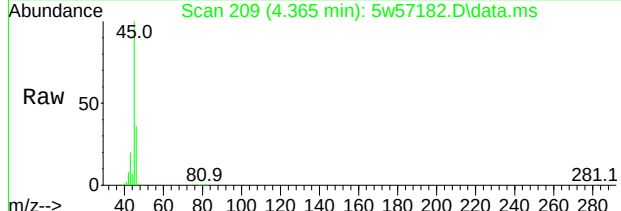
#24
PENTANE
Concen: 1.4135 PPBV
RT: 5.130 min Scan# 334
Delta R.T. -0.012 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

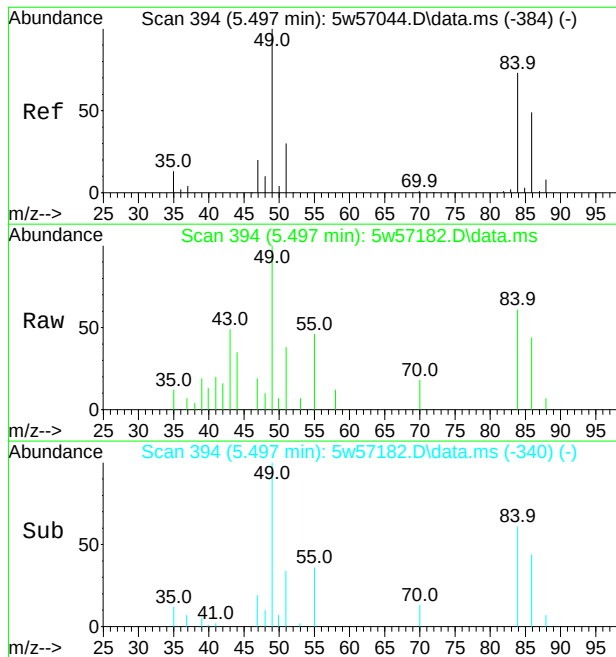
Tgt	Ion	Ratio	Lower	Upper
42	42	100		
41	41	87.0	62.9	122.9
57	57	34.1	0.0	57.4



#28
ETHANOL
Concen: 17.8599 PPBV
RT: 4.365 min Scan# 209
Delta R.T. -0.006 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

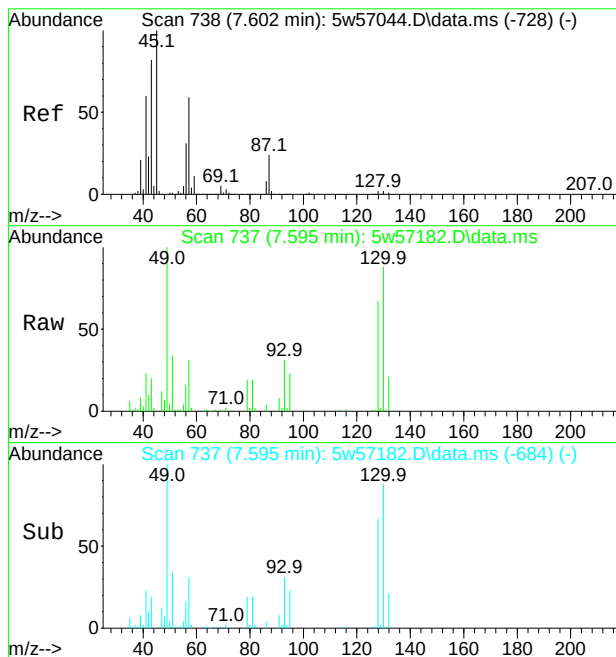
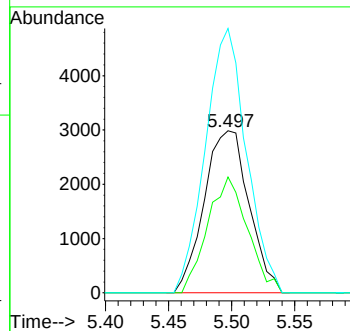
Tgt	Ion	Ratio	Lower	Upper
45	45	100		
46	46	35.3	5.4	65.4
42	42	7.6	0.0	37.7





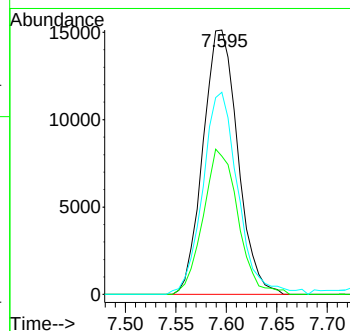
#31
METHYLENE CHLORIDE
Concen: 0.2316 PPBV
RT: 5.497 min Scan# 394
Delta R.T. 0.000 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

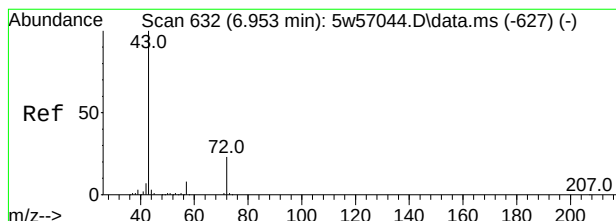
Tgt Ion: 84	Resp: 7377
Ion Ratio	Lower Upper
84	100
86	63.8 36.1 96.1
49	149.2 106.2 166.2



#38
HEXANE
Concen: 0.6468 PPBV
RT: 7.595 min Scan# 737
Delta R.T. -0.007 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

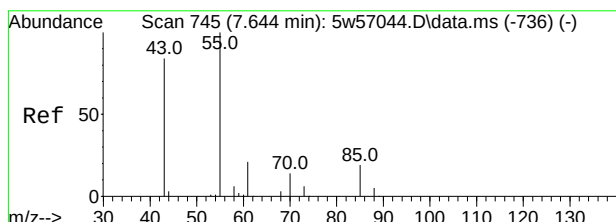
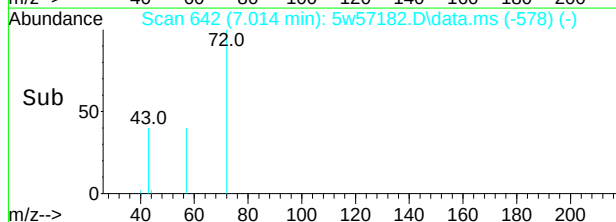
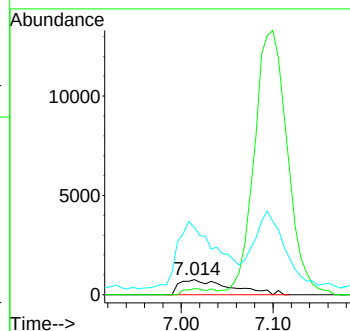
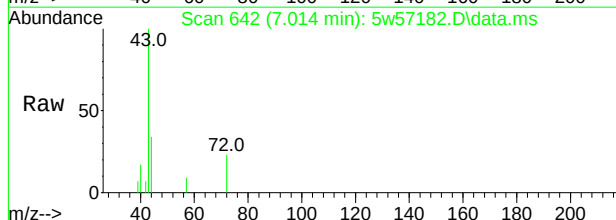
Tgt Ion: 57	Resp: 36283
Ion Ratio	Lower Upper
57	100
56	55.0 25.5 85.5
41	77.4 78.7 138.7#





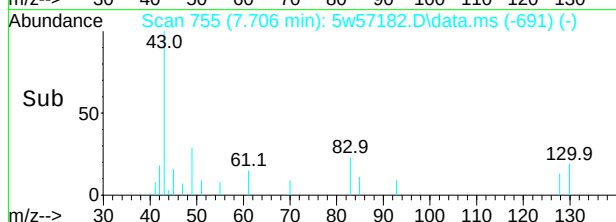
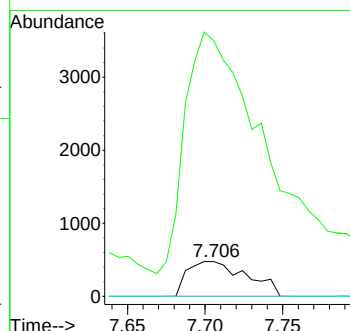
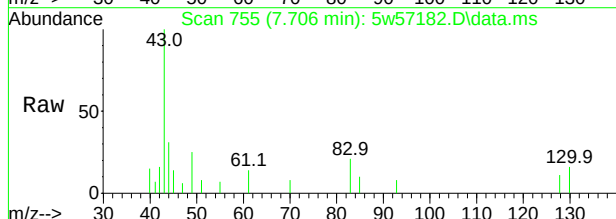
#41
METHYL ETHYL KETONE
Concen: 0.2257 PPBV
RT: 7.014 min Scan# 642
Delta R.T. 0.061 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

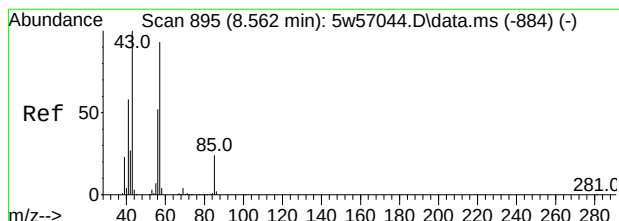
Tgt Ion: 72 Resp: 2980
Ion Ratio Lower Upper
72 100
57 40.5 3.9 63.9
43 441.4 401.3 461.3



#44
ETHYL ACETATE
Concen: 0.1253 PPBV
RT: 7.706 min Scan# 755
Delta R.T. 0.062 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

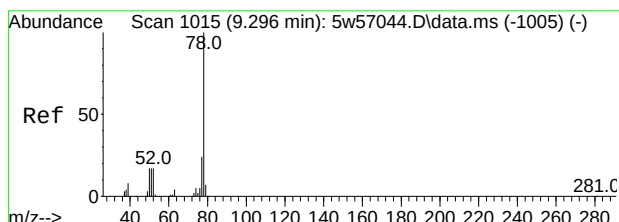
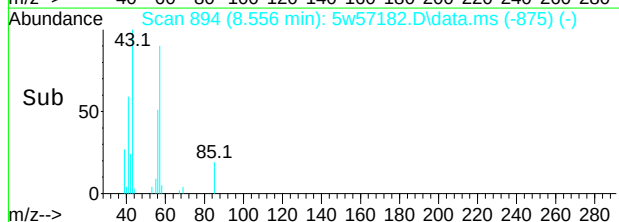
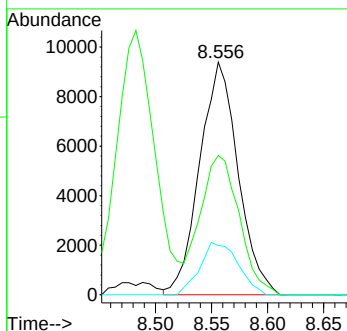
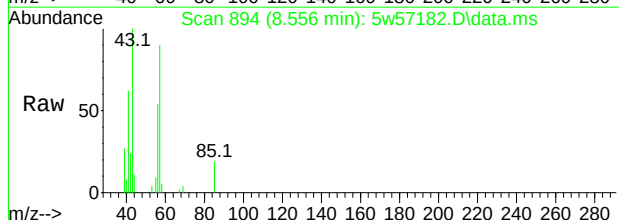
Tgt Ion: 61 Resp: 1273
Ion Ratio Lower Upper
61 100
43 1070.8 0.0 30.0#
88 0.0 7.2 67.2#





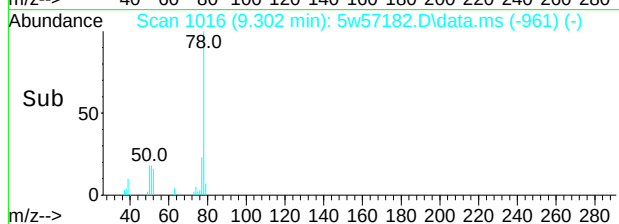
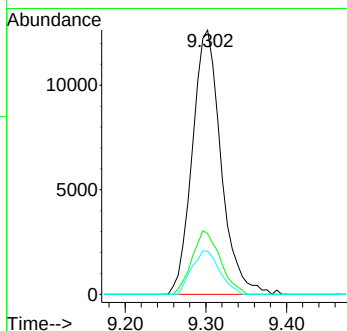
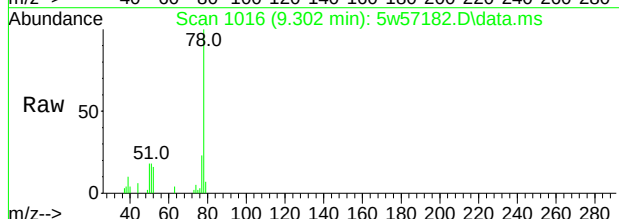
#47
2,4-DIMETHYLPENTANE
Concen: 0.3549 PPBV
RT: 8.556 min Scan# 894
Delta R.T. -0.006 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

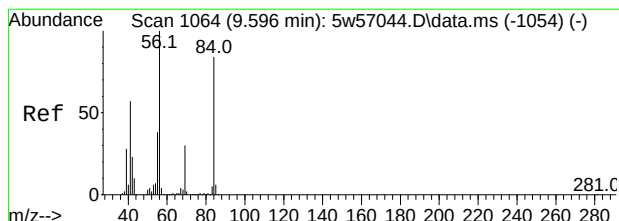
Tgt	Ion	57	Resp:	22436
	Ratio	100	Lower	Upper
	56	60.5	26.5	86.5
	85	22.3	0.0	56.3



#52
BENZENE
Concen: 0.2811 PPBV
RT: 9.302 min Scan# 1016
Delta R.T. 0.006 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

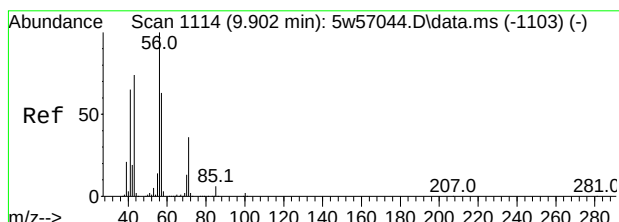
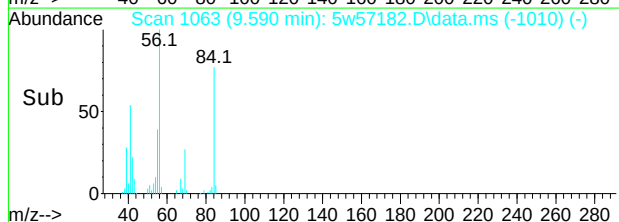
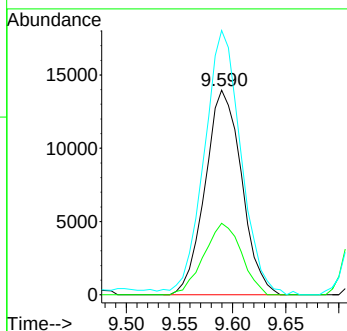
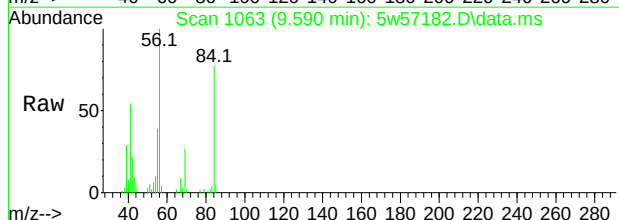
Tgt	Ion	78	Resp:	31212
	Ratio	100	Lower	Upper
	77	23.6	0.0	53.7
	52	16.1	0.0	46.4





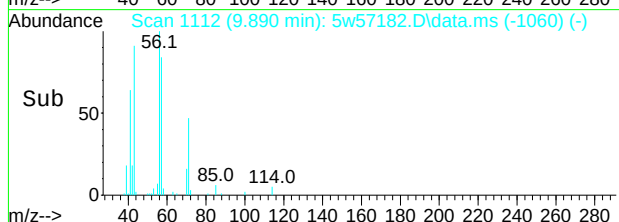
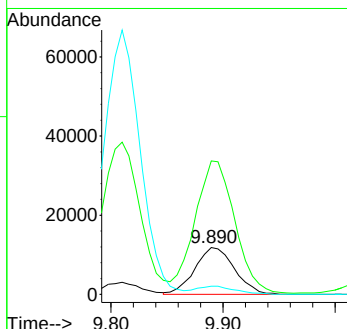
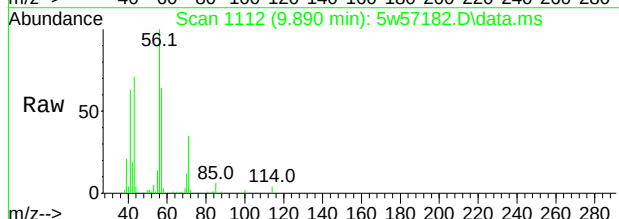
#53
CYCLOHEXANE
Concen: 0.7385 PPBV
RT: 9.590 min Scan# 1063
Delta R.T. -0.006 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

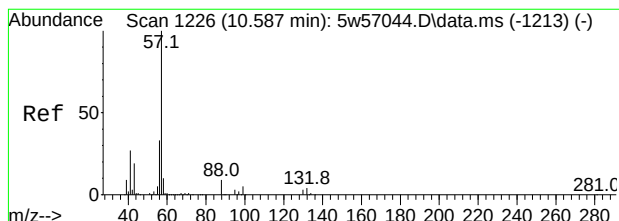
Tgt Ion: 84 Resp: 33371
Ion Ratio Lower Upper
84 100
69 36.0 5.9 65.9
56 129.7 90.4 150.4



#54
2,3-DIMETHYLPENTANE
Concen: 1.2916 PPBV
RT: 9.890 min Scan# 1112
Delta R.T. -0.012 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

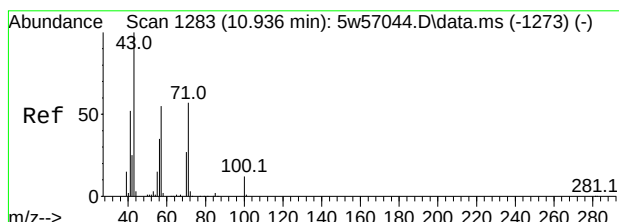
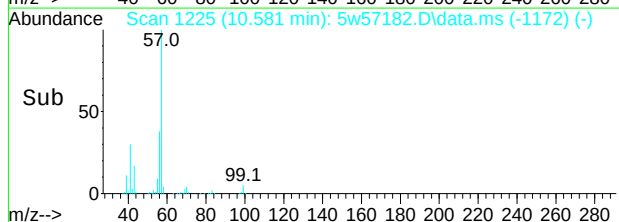
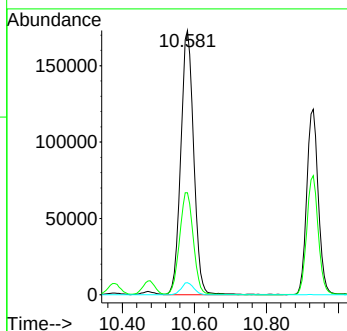
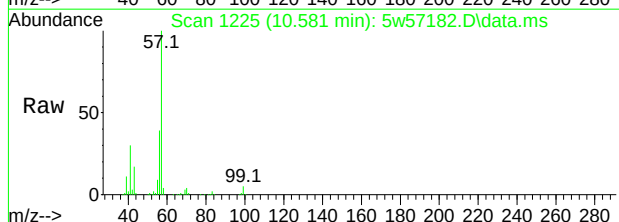
Tgt Ion: 71 Resp: 29101
Ion Ratio Lower Upper
71 100
56 286.6 253.7 313.7
85 16.3 0.0 45.8





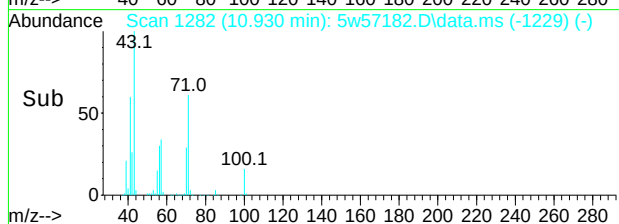
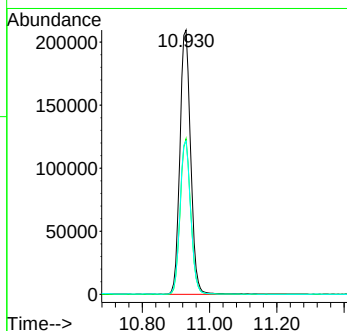
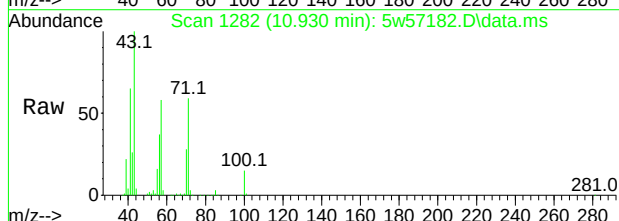
#60
2,2,4-TRIMETHYLPENTANE
Concen: 2.4833 PPBV
RT: 10.581 min Scan# 1225
Delta R.T. -0.006 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

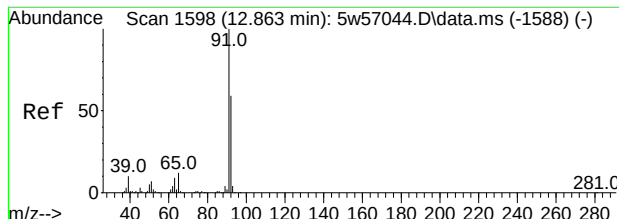
Tgt Ion: 57 Resp: 433650
Ion Ratio Lower Upper
57 100
56 41.2 2.6 62.6
99 4.5 0.0 38.0



#62
HEPTANE
Concen: 7.8741 PPBV
RT: 10.930 min Scan# 1282
Delta R.T. -0.006 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

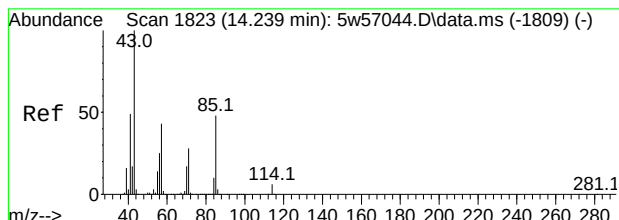
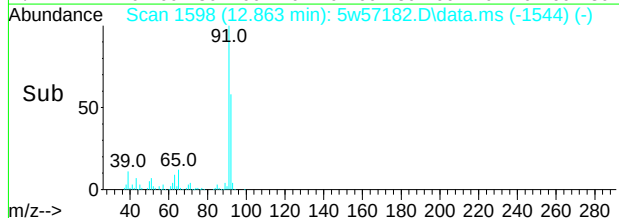
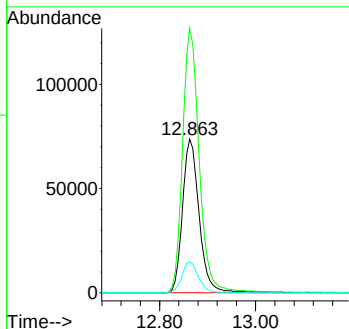
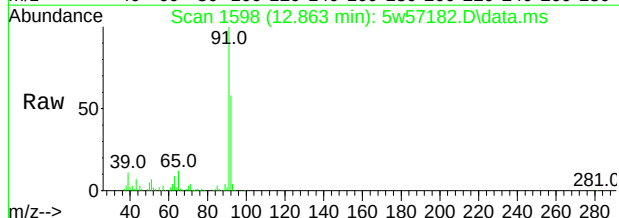
Tgt Ion: 43 Resp: 469132
Ion Ratio Lower Upper
43 100
71 57.4 27.1 87.1
57 57.9 25.7 85.7





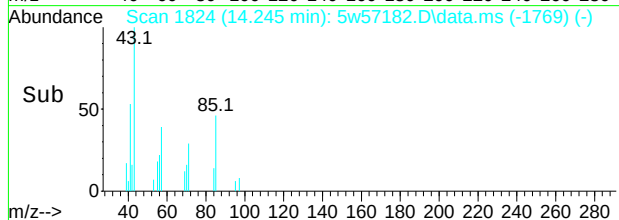
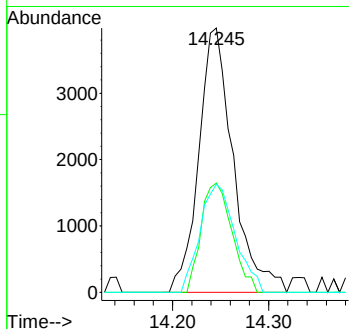
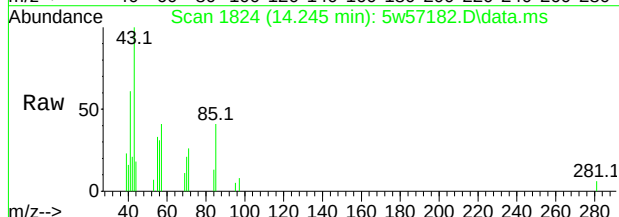
#66
TOLUENE
Concen: 2.1508 PPBV
RT: 12.863 min Scan# 1598
Delta R.T. -0.000 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

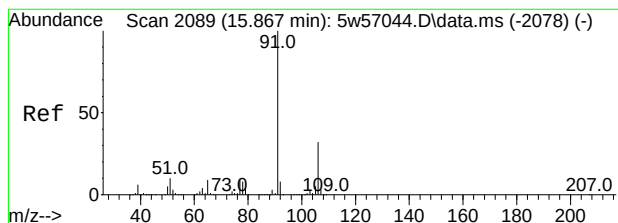
Tgt Ion	Ratio	Lower	Upper
92	100		
91	173.9	140.2	200.2
65	20.0	0.0	52.3



#76
OCTANE
Concen: 0.1206 PPBV
RT: 14.245 min Scan# 1824
Delta R.T. 0.006 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

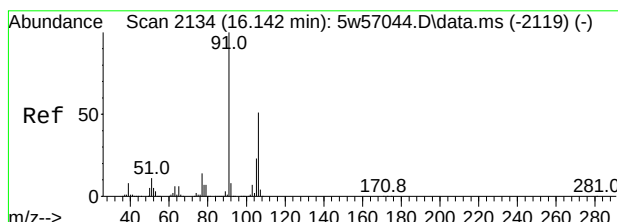
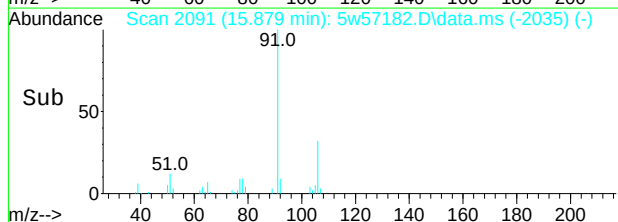
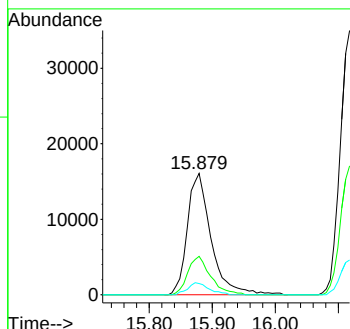
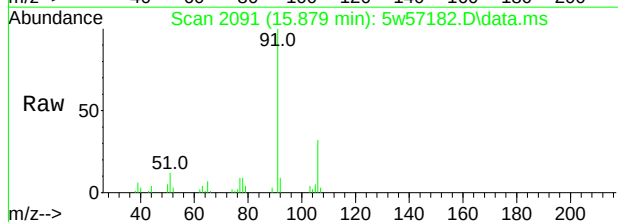
Tgt Ion	Ratio	Lower	Upper
43	100		
85	37.0	17.1	77.1
57	41.9	12.7	72.7





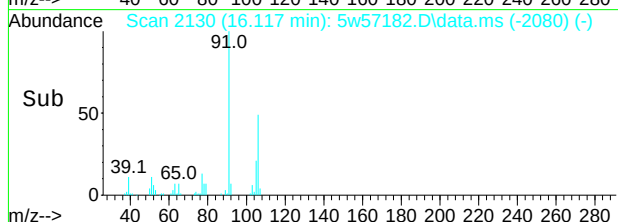
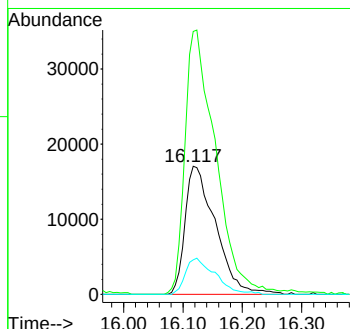
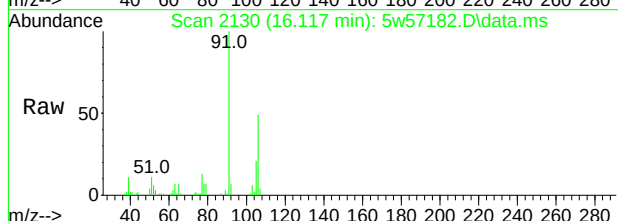
#79
ETHYLBENZENE
Concen: 0.2473 PPBV
RT: 15.879 min Scan# 2091
Delta R.T. 0.012 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

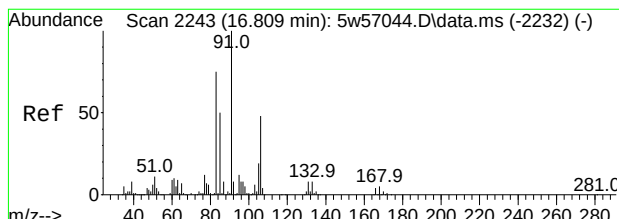
Tgt Ion:	91	Resp:	42157
Ion Ratio	Lower	Upper	
91	100		
106	30.3	2.0	62.0
77	8.9	0.0	38.6



#80
m,p-XYLENE
Concen: 0.8920 PPBV
RT: 16.117 min Scan# 2130
Delta R.T. -0.025 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

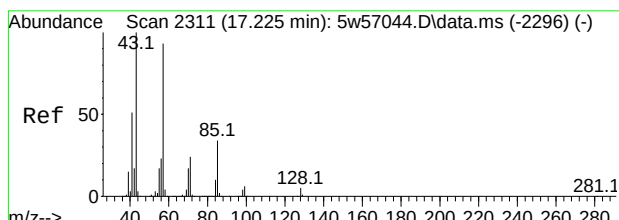
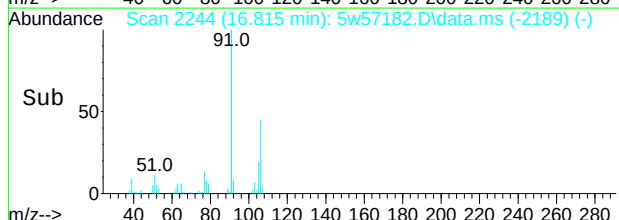
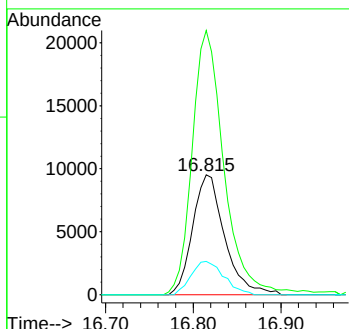
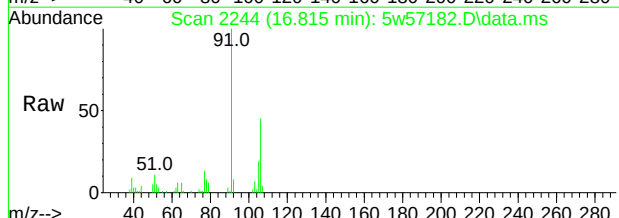
Tgt Ion:	106	Resp:	61068
Ion Ratio	Lower	Upper	
106	100		
91	205.3	166.2	226.2
77	27.0	0.0	56.8





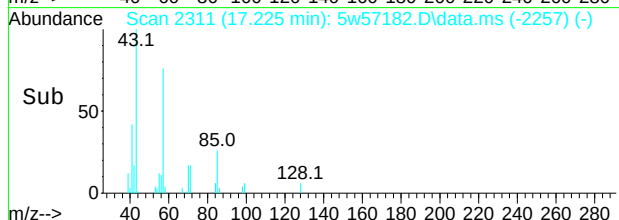
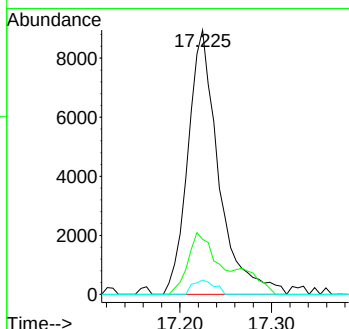
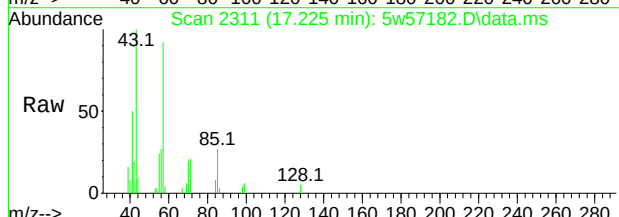
#81
o-XYLENE
Concen: 0.3685 PPBV
RT: 16.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

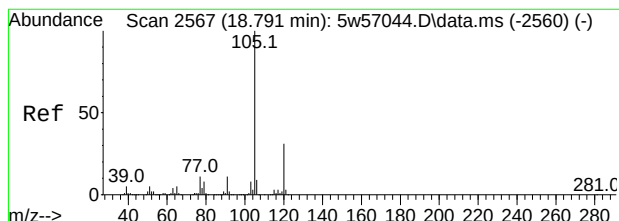
Tgt Ion	Ratio	Lower	Upper
106	100		
91	220.7	177.8	237.8
77	28.7	0.0	56.1



#83
NONANE
Concen: 0.2315 PPBV
RT: 17.225 min Scan# 2311
Delta R.T. -0.000 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

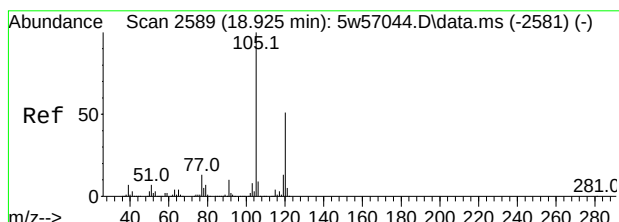
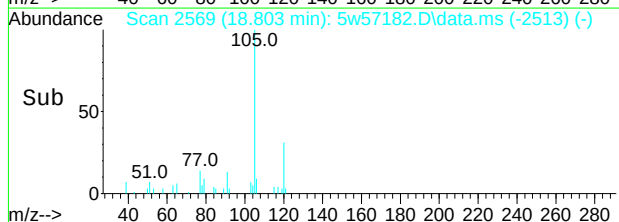
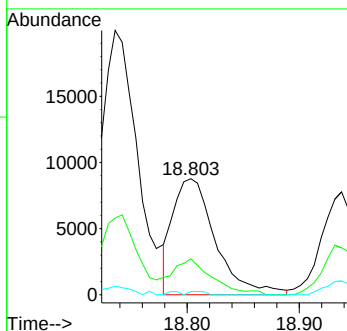
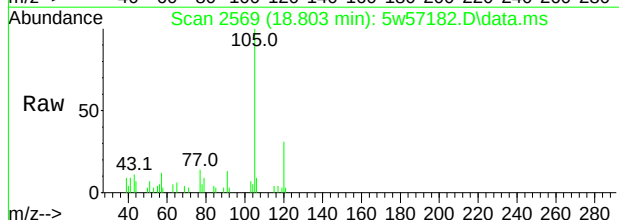
Tgt Ion	Ratio	Lower	Upper
43	100		
71	29.6	0.0	53.8
128	3.8	0.0	35.4





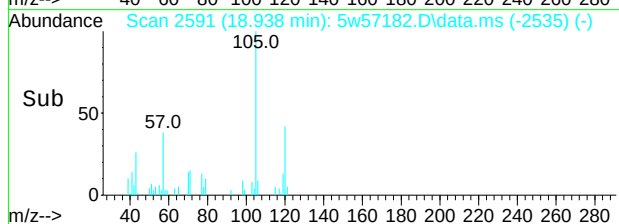
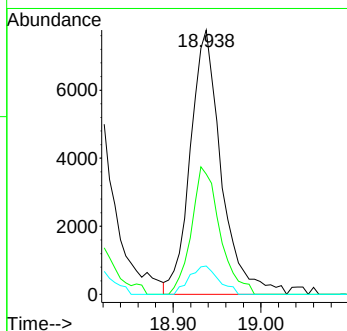
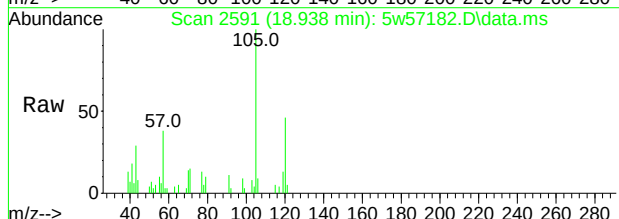
#92
4-ETHYLTOLUENE
Concen: 0.1218 PPBV
RT: 18.803 min Scan# 2569
Delta R.T. 0.012 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

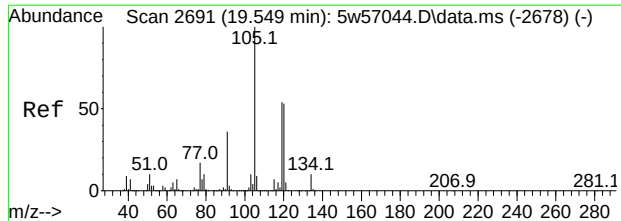
Tgt	Ion:105	Resp:	23119
Ion	Ratio	Lower	Upper
105	100		
120	27.8	0.9	60.9
119	1.1	0.0	32.3



#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.1155 PPBV
RT: 18.938 min Scan# 2591
Delta R.T. 0.013 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

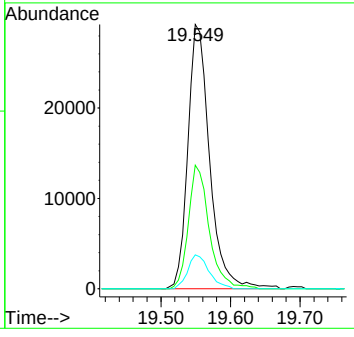
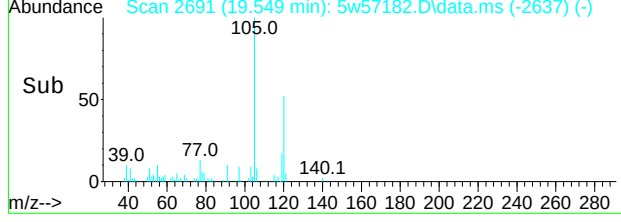
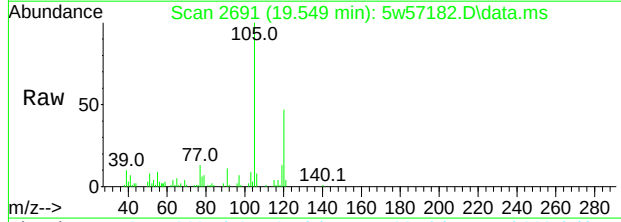
Tgt	Ion:105	Resp:	19072
Ion	Ratio	Lower	Upper
105	100		
120	44.3	20.6	80.6
91	10.2	0.0	40.5





#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.3885 PPBV
RT: 19.549 min Scan# 2691
Delta R.T. 0.000 min
Lab File: 5w57182.D
Acq: 5 Mar 2025 1:06 am

Tgt Ion:	105	Resp:	63668
Ion Ratio	Lower	Upper	
105	100		
120	44.7	27.4	87.4
119	12.6	77.3	137.3#



7.1.5
7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
 Data File : 5w57194.D
 Acq On : 5 Mar 2025 11:07 am
 Operator : thomash
 Sample : je5976-5 Inst : GCMS5W
 Misc : MS89870,V5W2194,20,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 05 18:18:47 2025
 Quant Method : C:\msdchem\1\methods\M5w2187.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Mon Feb 24 14:22:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	321946	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1509504	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	712796	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.571	128	321946	10.00	PPBV	# 0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.500	95	941600	10.25	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery	=	102.50%	
Target Compounds						
					Qvalue	
13) n-BUTANE	3.992	43	14193	0.3350	PPBV #	47
23) ACETONE	4.732	58	484784	29.2896	PPBV #	1
28) ETHANOL	4.402	45	18313	1.1135	PPBV	93
60) 2,2,4-TRIMETHYLPENTANE	10.593	57	20840	0.1267	PPBV	82
62) HEPTANE	10.942	43	21271	0.3790	PPBV	98

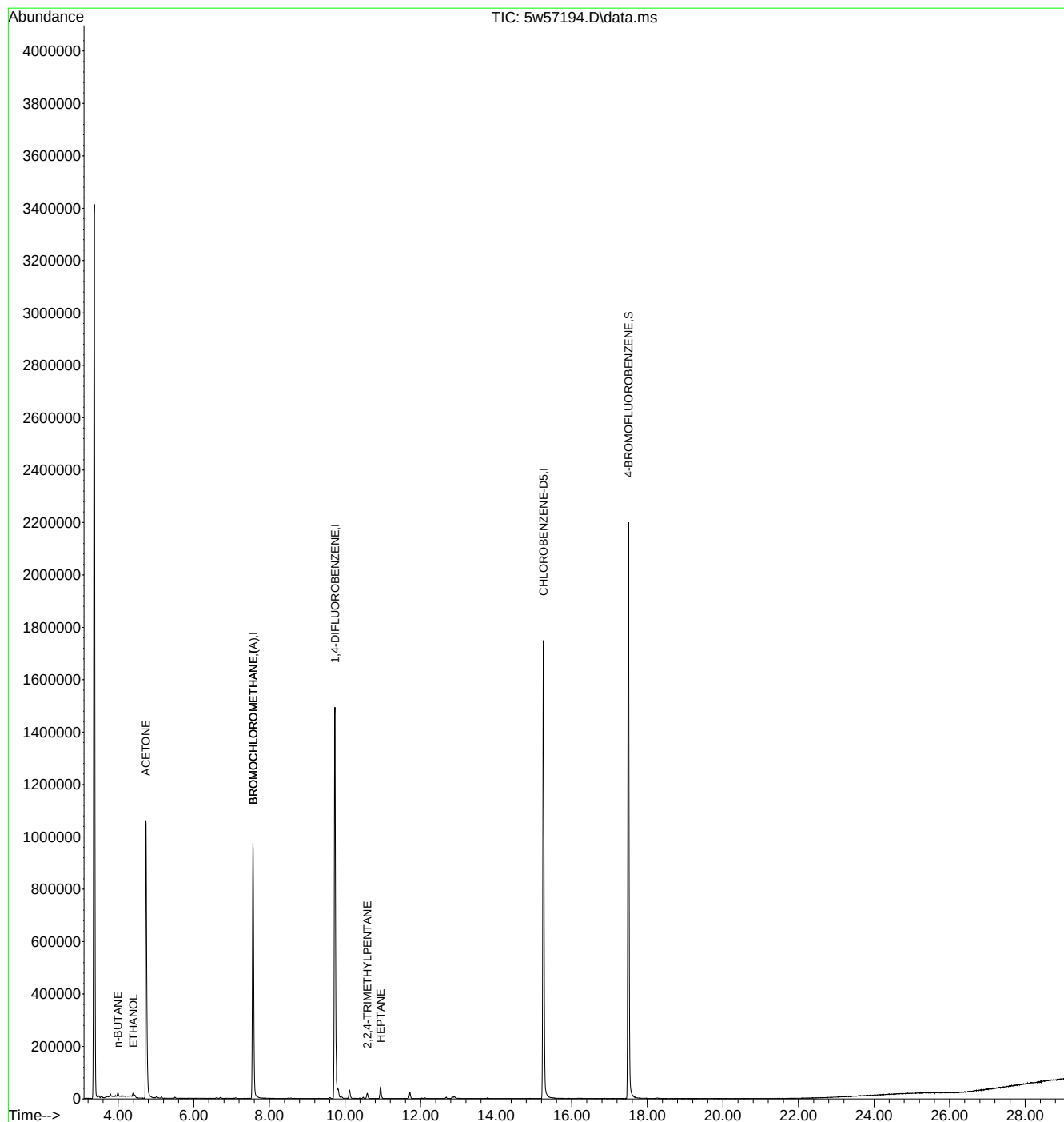
(#) = qualifier out of range (m) = manual integration (+) = signals summed

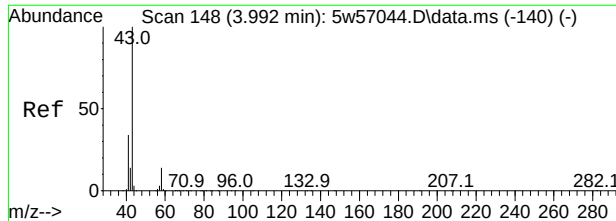
Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57194.D
Acq On : 5 Mar 2025 11:07 am
Operator : thomash
Sample : je5976-5
Misc : MS89870,V5W2194,20,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Inst : GCMS5W

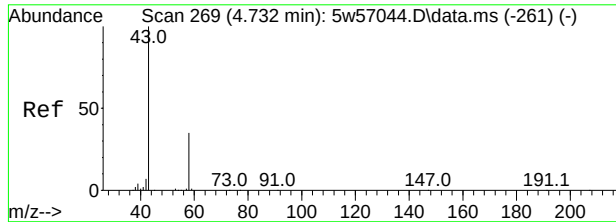
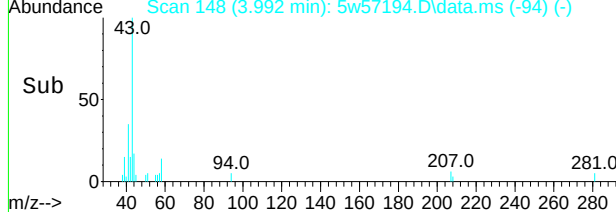
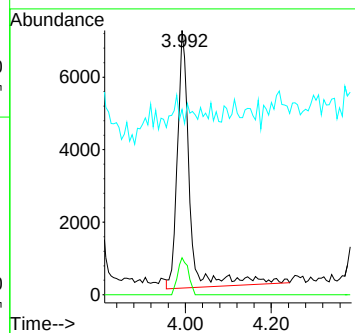
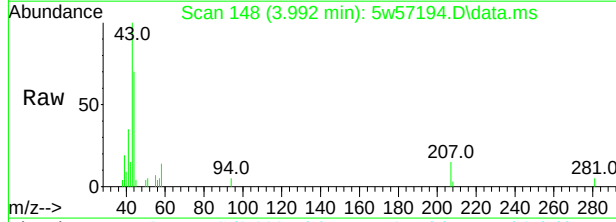
Quant Time: Mar 05 18:18:47 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration





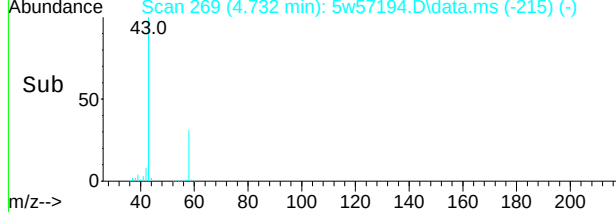
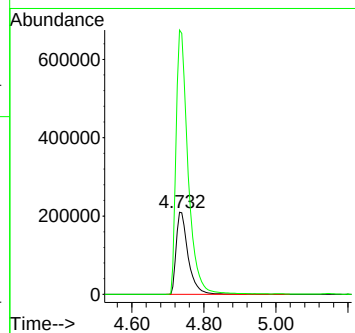
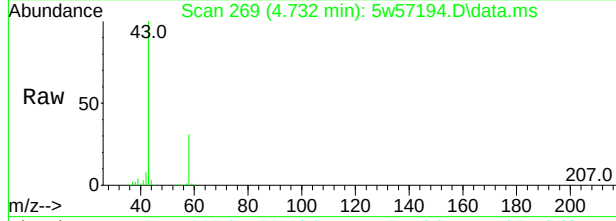
#13
n-BUTANE
Concen: 0.3350 PPBV
RT: 3.992 min Scan# 148
Delta R.T. 0.000 min
Lab File: 5w57194.D
Acq: 5 Mar 2025 11:07 am

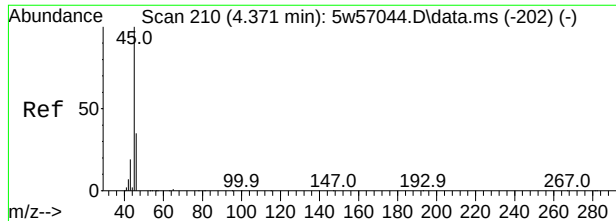
Tgt	Ion	Ratio	Lower	Upper
43	100			
58	12.5	0.0	43.8	
44	65.4	0.0	35.5#	



#23
ACETONE
Concen: 29.2896 PPBV
RT: 4.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w57194.D
Acq: 5 Mar 2025 11:07 am

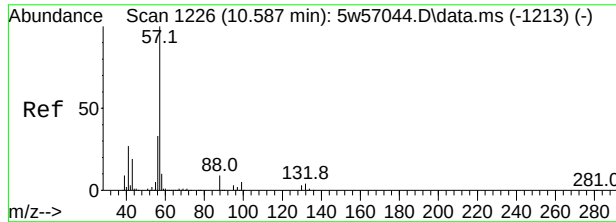
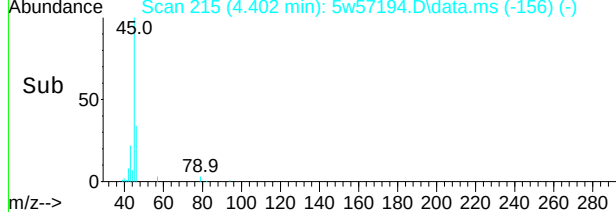
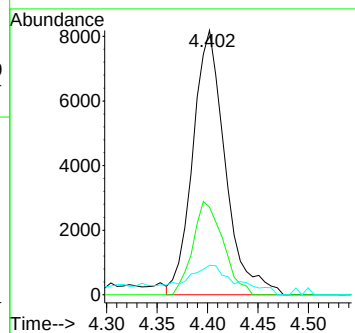
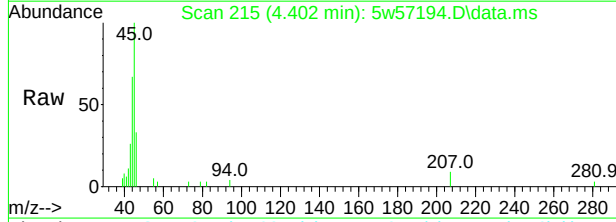
Tgt	Ion	Ratio	Lower	Upper
58	100			
43	323.7	0.0	32.7#	





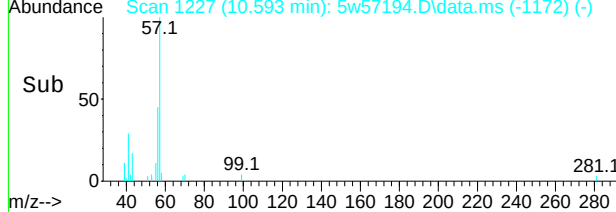
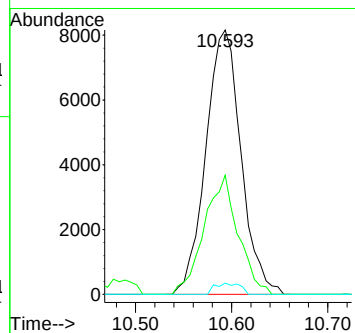
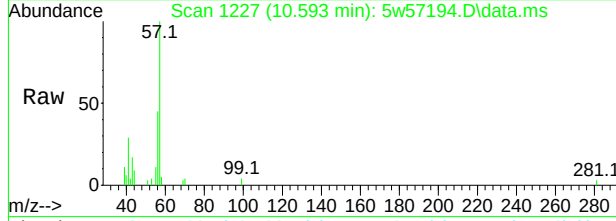
#28
ETHANOL
Concen: 1.1135 PPBV
RT: 4.402 min Scan# 215
Delta R.T. 0.031 min
Lab File: 5w57194.D
Acq: 5 Mar 2025 11:07 am

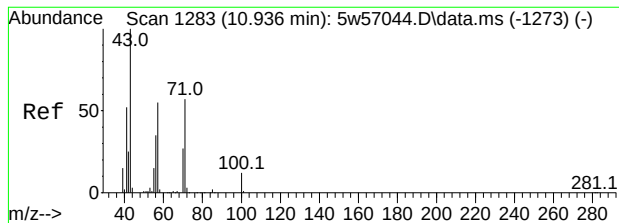
Tgt Ion:	45	Resp:	18313
Ion Ratio	Lower	Upper	
45	100		
46	33.0	5.4	65.4
42	15.2	0.0	37.7



#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.1267 PPBV
RT: 10.593 min Scan# 1227
Delta R.T. 0.006 min
Lab File: 5w57194.D
Acq: 5 Mar 2025 11:07 am

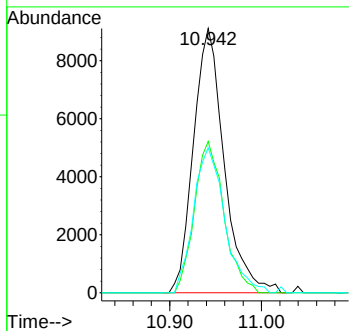
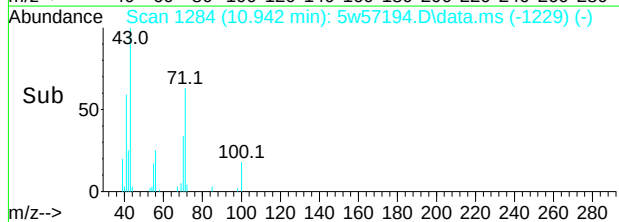
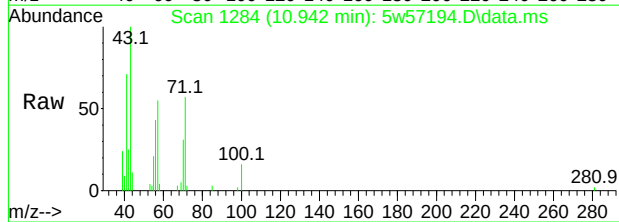
Tgt Ion:	57	Resp:	20840
Ion Ratio	Lower	Upper	
57	100		
56	43.5	2.6	62.6
99	3.0	0.0	38.0





#62
HEPTANE
Concen: 0.3790 PPBV
RT: 10.942 min Scan# 1284
Delta R.T. 0.006 min
Lab File: 5w57194.D
Acq: 5 Mar 2025 11:07 am

Tgt Ion: 43 Resp: 21271
Ion Ratio Lower Upper
43 100
71 54.7 27.1 87.1
57 55.9 25.7 85.7



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\
 Data File : 5w57183.D
 Acq On : 5 Mar 2025 2:00 am
 Operator : thomash
 Sample : je5976-6 Inst : GCMS5W
 Misc : MS89870,V5W2194,400,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 08 03:47:08 2025
 Quant Method : C:\msdchem\1\methods\M5w2187.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Mon Feb 24 14:22:14 2025
 Response via : Initial Calibration

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

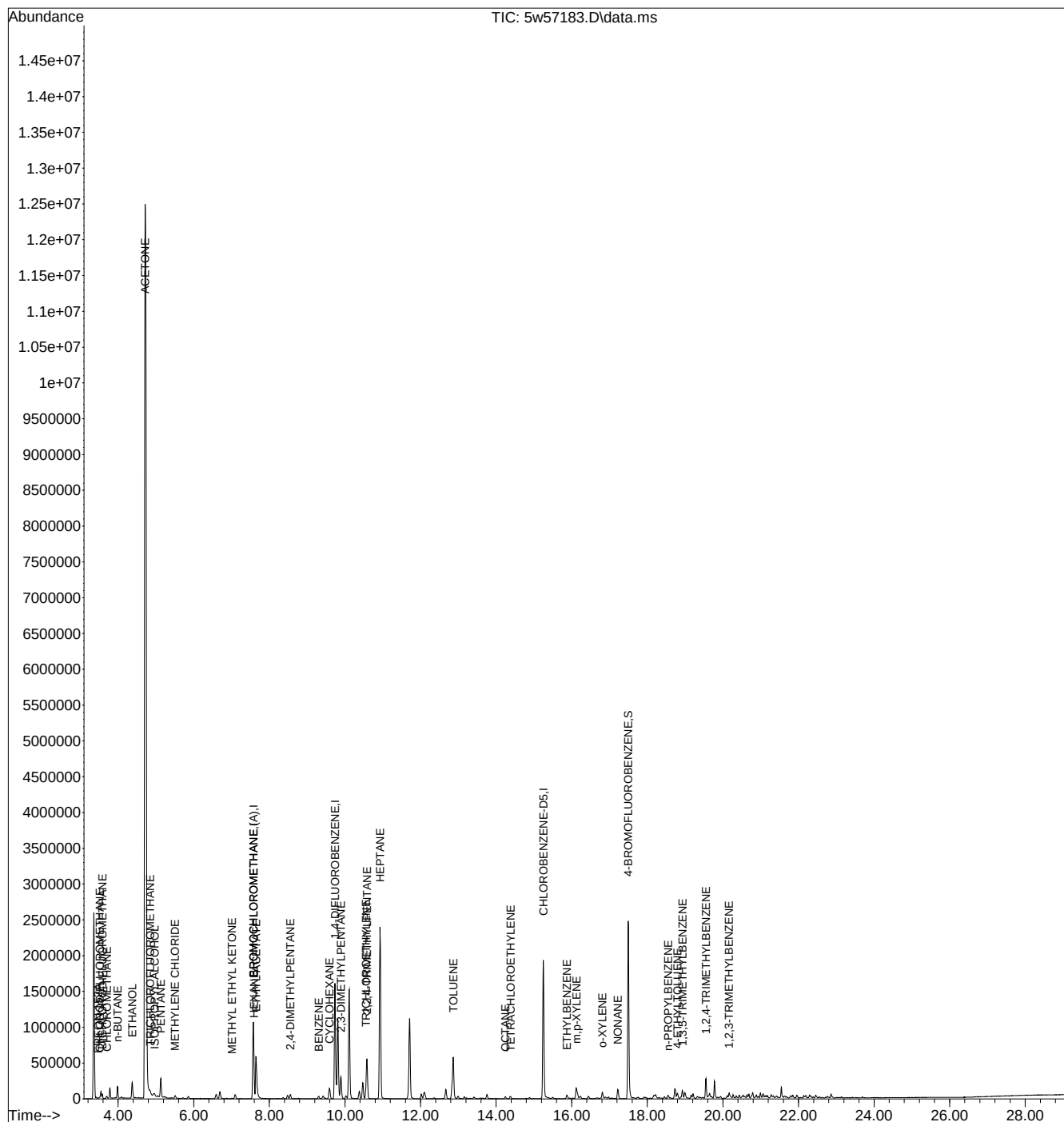
Internal Standards						
1) BROMOCHLOROMETHANE	7.577	128	327224	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1580945	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	776985	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.577	128	327224	10.00	PPBV	# 0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.494	95	1058031	10.56	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	105.60%
Target Compounds						
					Qvalue	
3) FREON 152A	3.472	65	4399	0.1736	PPBV	88
4) CHLORODIFLUOROMETHANE	3.509	67	3462	0.3003	PPBV	96
6) DICHLORODIFLUOROMETHANE	3.582	85	55939	0.5402	PPBV	99
10) CHLOROMETHANE	3.699	52	10311	0.7827	PPBV	87
13) n-BUTANE	3.986	43	140234	3.2569	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.843	101	26010	0.2560	PPBV	99
22) ISOPROPYL ALCOHOL	4.965	45	68127	1.0140	PPBV	# 1
23) ACETONE	4.714	58	9246794	549.6600	PPBV	# 1
24) PENTANE	5.130	42	114877	3.7518	PPBV	93
28) ETHANOL	4.371	45	286568	17.1437	PPBV	99
31) METHYLENE CHLORIDE	5.503	84	11632	0.3681	PPBV	97
38) HEXANE	7.596	57	55282	0.9933	PPBV	88
41) METHYL ETHYL KETONE	7.008	72	3015	0.2302	PPBV	99
44) ETHYL ACETATE	7.651	61	140695	13.9538	PPBV	# 74
47) 2,4-DIMETHYLPENTANE	8.556	57	31217	0.4978	PPBV	96
52) BENZENE	9.308	78	41140	0.3756	PPBV	99
53) CYCLOHEXANE	9.596	84	65519	1.4698	PPBV	95
54) 2,3-DIMETHYLPENTANE	9.896	71	58868	2.6486	PPBV	97
55) TRICHLOROETHYLENE	10.563	95	2092	0.0370	PPBV	# 65
60) 2,2,4-TRIMETHYLPENTANE	10.581	57	500015	2.9026	PPBV	75
62) HEPTANE	10.930	43	1142306	19.4356	PPBV	98
66) TOLUENE	12.863	92	303188	3.7285	PPBV	97
73) TETRACHLOROETHYLENE	14.380	164	10487	0.1673	PPBV	99
76) OCTANE	14.239	43	17148	0.2088	PPBV	88
79) ETHYLBENZENE	15.873	91	57647	0.3399	PPBV	96
80) m,p-XYLENE	16.124	106	84737	1.2442	PPBV	97
81) o-XYLENE	16.815	106	35352	0.5416	PPBV	87
83) NONANE	17.225	43	65203	0.7287	PPBV	95
91) n-PROPYLBENZENE	18.552	120	9610	0.1770	PPBV	86
92) 4-ETHYLTOLUENE	18.797	105	54341	0.2879	PPBV	95
93) 1,3,5-TRIMETHYLBENZENE	18.932	105	48188	0.2932	PPBV	94
96) 1,2,4-TRIMETHYLBENZENE	19.549	105	166715	1.0225	PPBV	# 34
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	45967	0.2707	PPBV	83

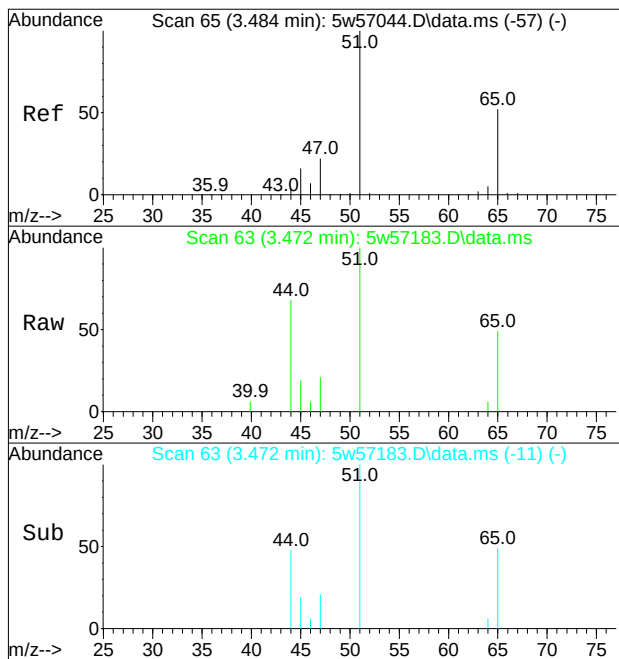
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

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Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\  
Data File : 5w57183.D  
Acq On   : 5 Mar 2025    2:00 am  
Operator : thomash  
Sample   : je5976-6                      Inst      : GCMS5W  
Misc     : MS89870,V5W2194,400,,,,,1  
ALS Vial : 5      Sample Multiplier: 1
```

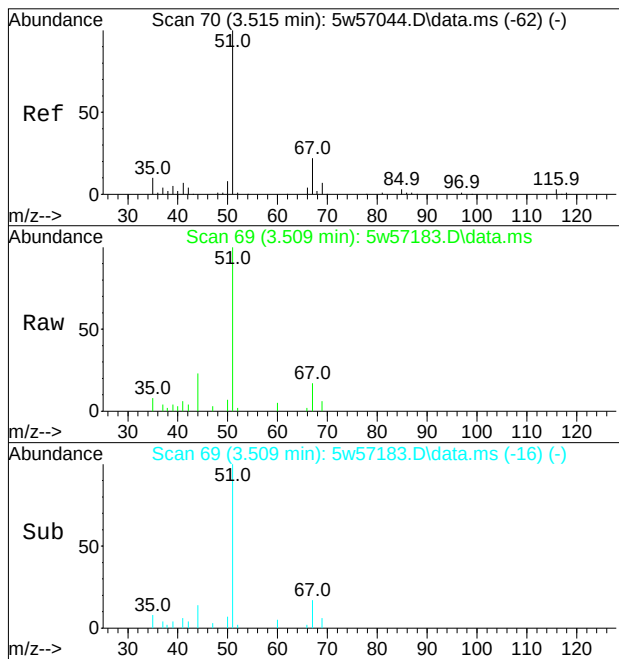
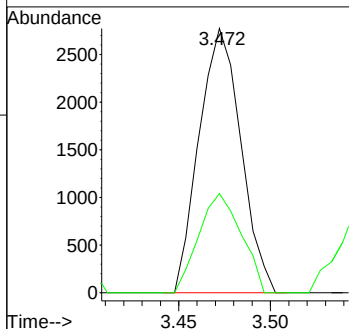
Quant Time: Mar 08 03:47:08 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration





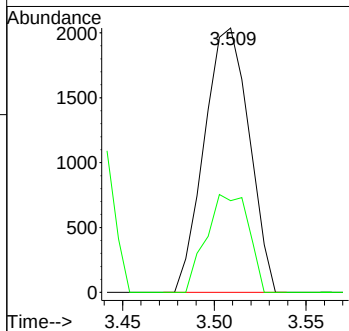
#3
FREON 152A
Concen: 0.1736 PPBV
RT: 3.472 min Scan# 63
Delta R.T. -0.012 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

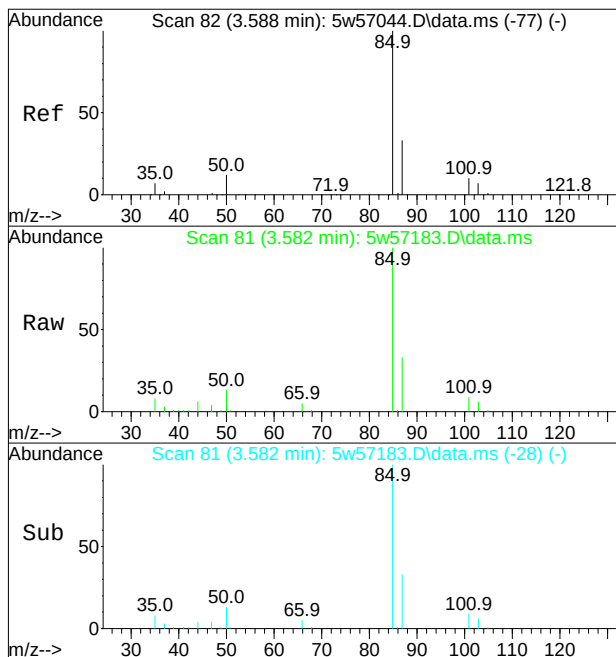
Tgt Ion: 65 Resp: 4399
Ion Ratio Lower Upper
65 100
45 38.1 1.3 61.3



#4
CHLORODIFLUOROMETHANE
Concen: 0.3003 PPBV
RT: 3.509 min Scan# 69
Delta R.T. -0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

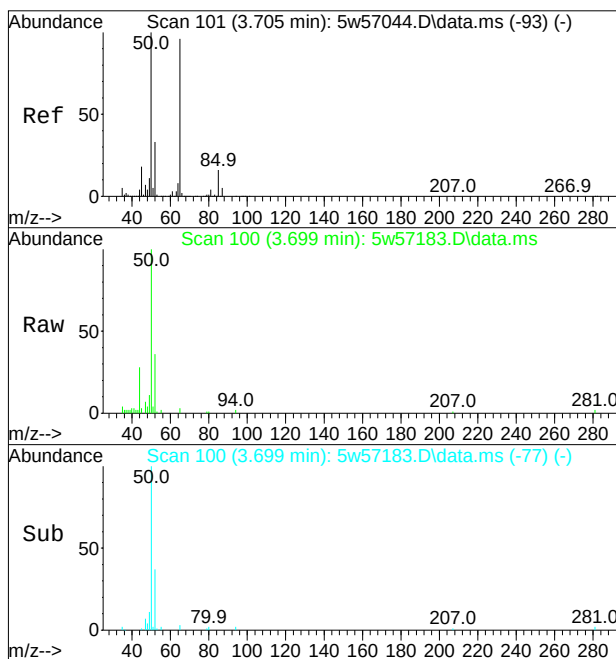
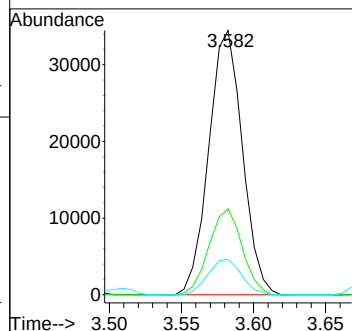
Tgt Ion: 67 Resp: 3462
Ion Ratio Lower Upper
67 100
69 34.7 2.3 62.3





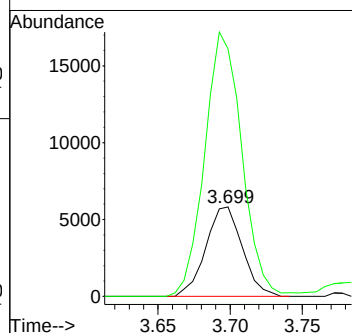
#6
DICHLORODIFLUOROMETHANE
Concen: 0.5402 PPBV
RT: 3.582 min Scan# 81
Delta R.T. -0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

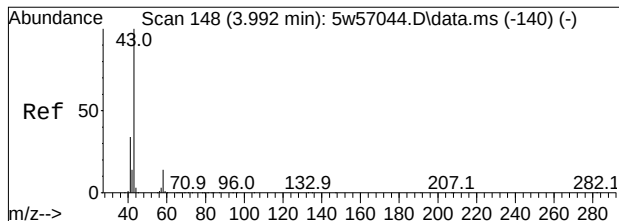
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.1	2.7	62.7
50	13.5	0.0	42.6



#10
CHLOROMETHANE
Concen: 0.7827 PPBV
RT: 3.699 min Scan# 100
Delta R.T. -0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

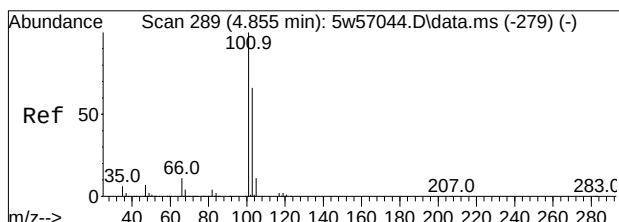
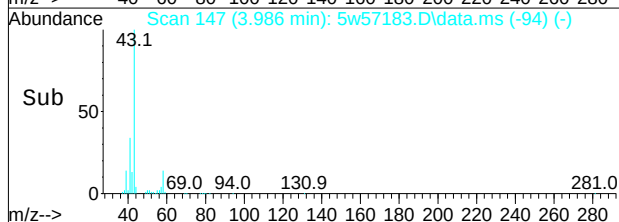
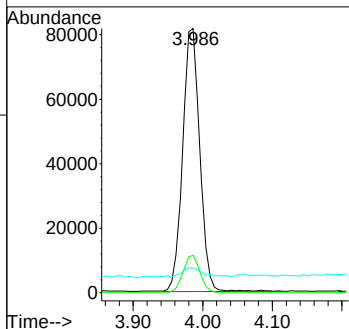
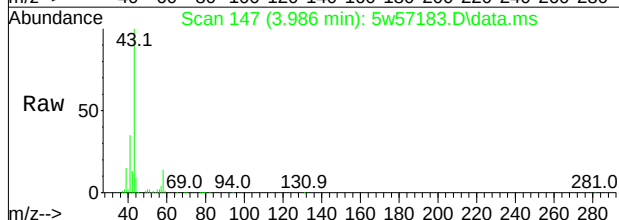
Tgt Ion	Ratio	Lower	Upper
52	100		
50	274.4	269.7	329.7





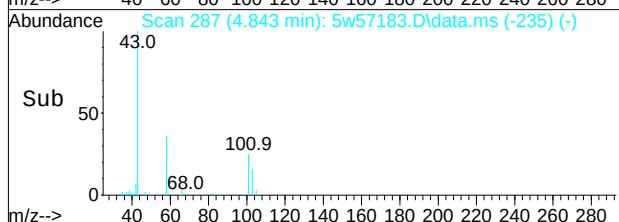
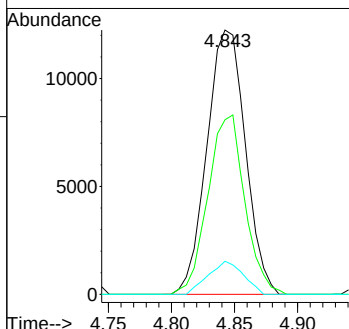
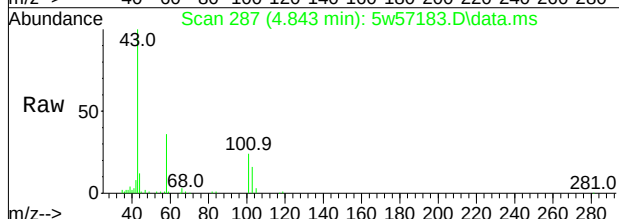
#13
n-BUTANE
Concen: 3.2569 PPBV
RT: 3.986 min Scan# 147
Delta R.T. -0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

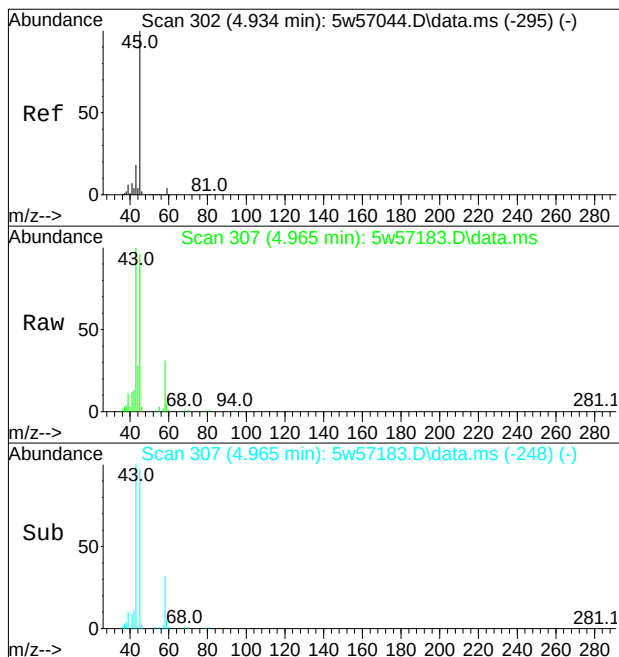
Tgt Ion: 43 Resp: 140234
Ion Ratio Lower Upper
43 100
58 14.1 0.0 43.8
44 4.3 0.0 35.5



#21
TRICHLOROFLUOROMETHANE
Concen: 0.2560 PPBV
RT: 4.843 min Scan# 287
Delta R.T. -0.012 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

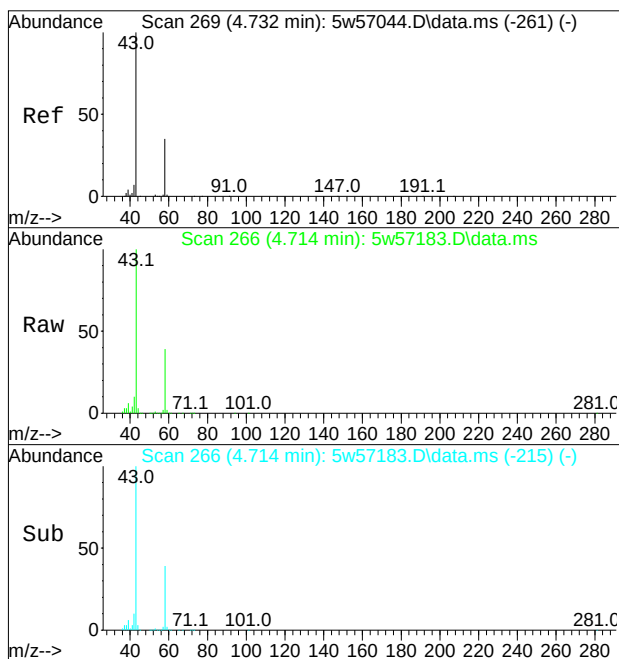
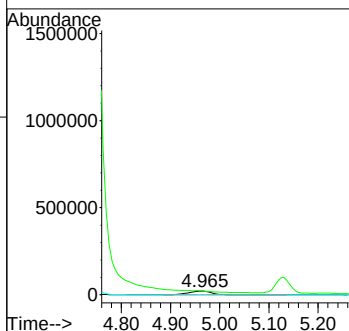
Tgt Ion: 101 Resp: 26010
Ion Ratio Lower Upper
101 100
103 64.9 35.5 95.5
105 11.4 0.0 40.8





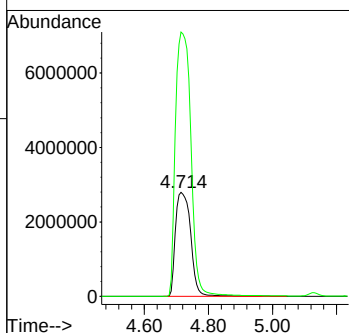
#22
ISOPROPYL ALCOHOL
Concen: 1.0140 PPBV
RT: 4.965 min Scan# 307
Delta R.T. 0.031 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

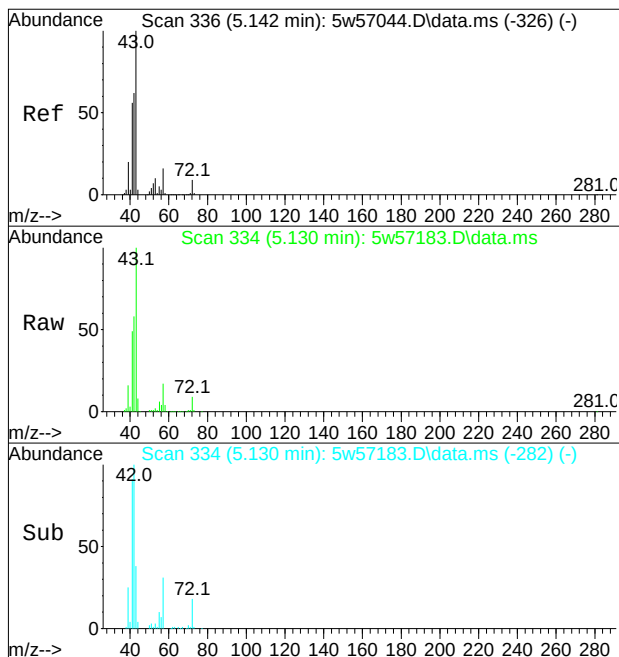
Tgt Ion	Ratio	Lower	Upper
45	100		
43	104.5	0.0	48.5#
59	5.1	0.0	34.2



#23
ACETONE
Concen: 549.6600 PPBV
RT: 4.714 min Scan# 266
Delta R.T. -0.018 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

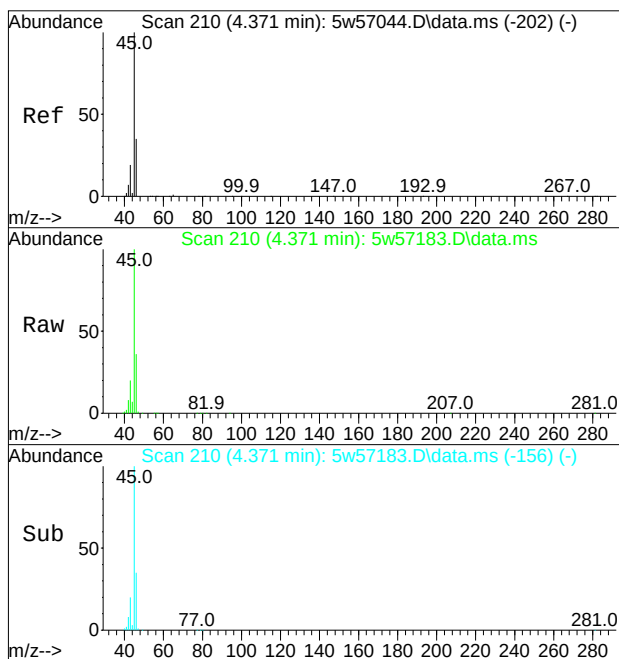
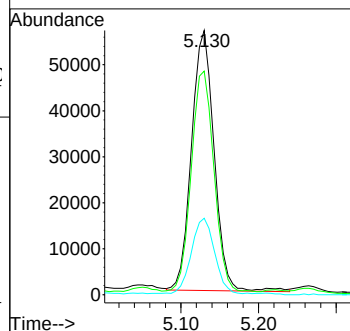
Tgt Ion	Ratio	Lower	Upper
58	100		
43	258.9	0.0	32.7#





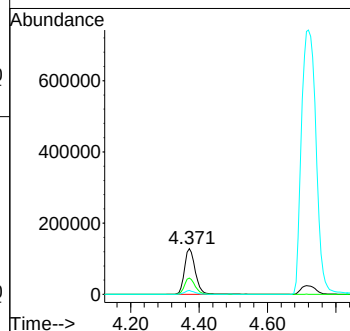
#24
PENTANE
Concen: 3.7518 PPBV
RT: 5.130 min Scan# 334
Delta R.T. -0.012 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

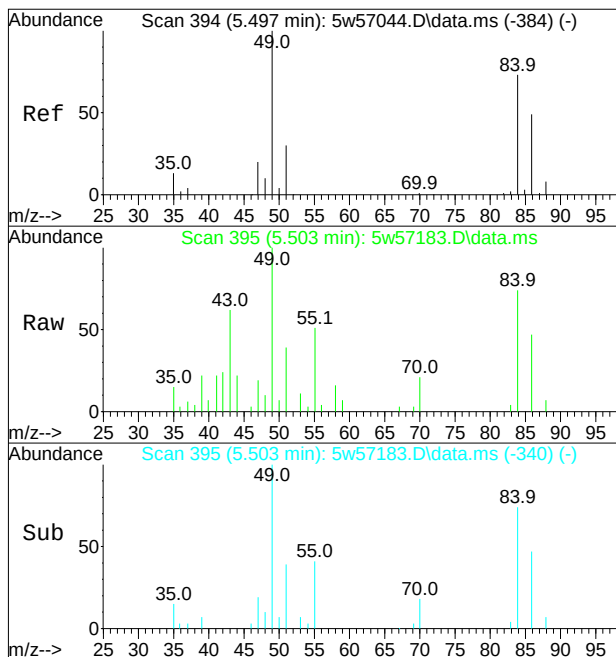
Tgt Ion: 42 Resp: 114877
Ion Ratio Lower Upper
42 100
41 86.0 62.9 122.9
57 31.6 0.0 57.4



#28
ETHANOL
Concen: 17.1437 PPBV
RT: 4.371 min Scan# 210
Delta R.T. 0.000 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

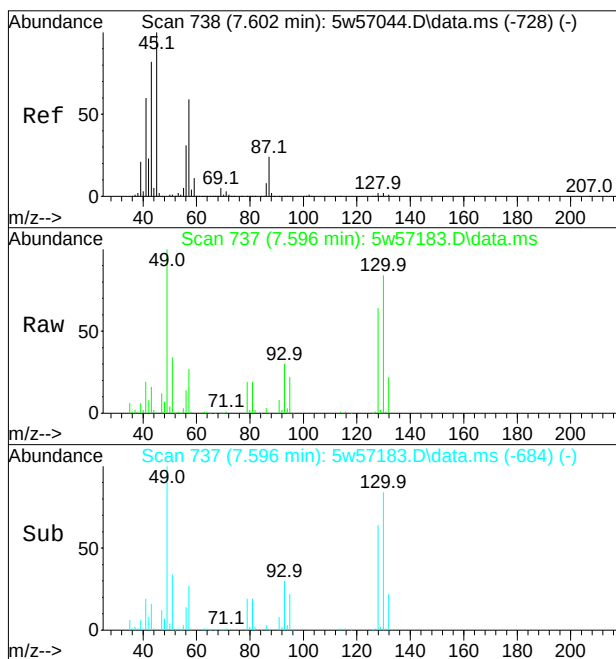
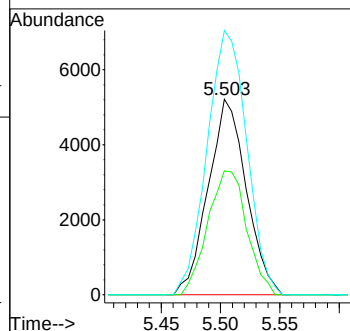
Tgt Ion: 45 Resp: 286568
Ion Ratio Lower Upper
45 100
46 35.0 5.4 65.4
42 7.8 0.0 37.7





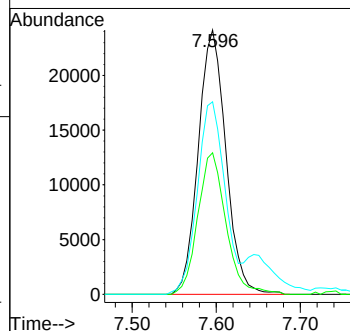
#31
METHYLENE CHLORIDE
Concen: 0.3681 PPBV
RT: 5.503 min Scan# 395
Delta R.T. 0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

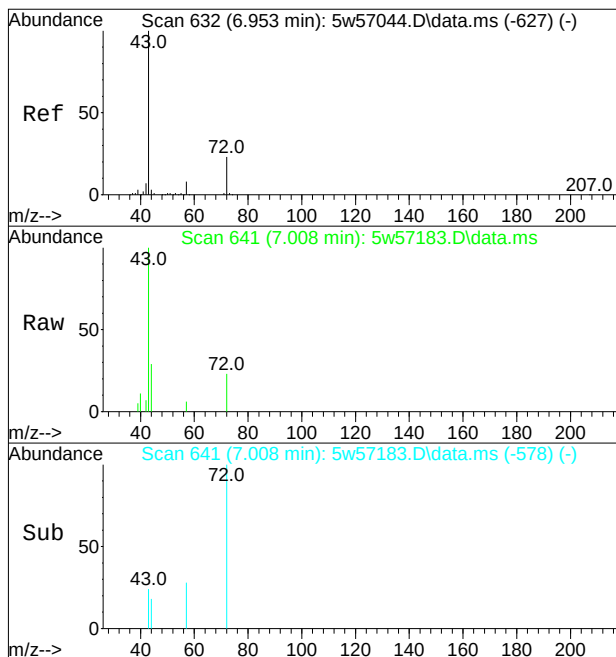
Tgt Ion	Ratio	Lower	Upper
84	100		
86	64.7	36.1	96.1
49	140.9	106.2	166.2



#38
HEXANE
Concen: 0.9933 PPBV
RT: 7.596 min Scan# 737
Delta R.T. -0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

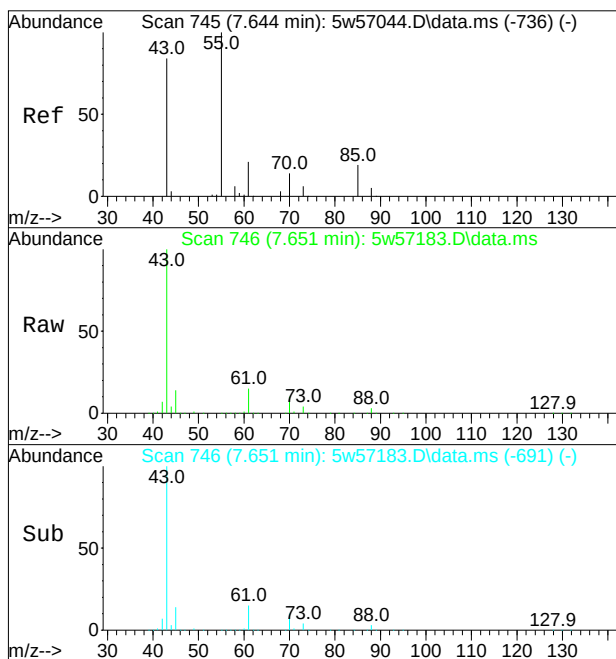
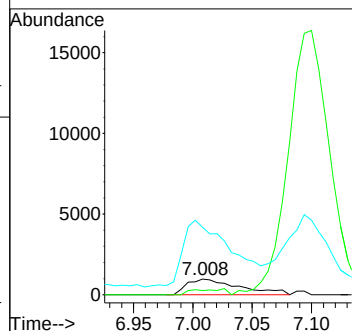
Tgt Ion	Ratio	Lower	Upper
57	100		
56	54.5	25.5	85.5
41	89.8	78.7	138.7





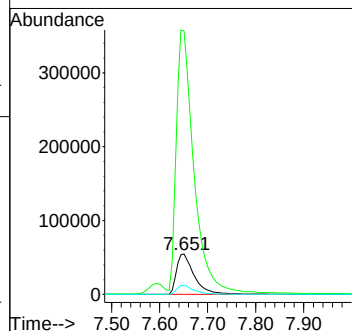
#41
METHYL ETHYL KETONE
Concen: 0.2302 PPBV
RT: 7.008 min Scan# 641
Delta R.T. 0.055 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

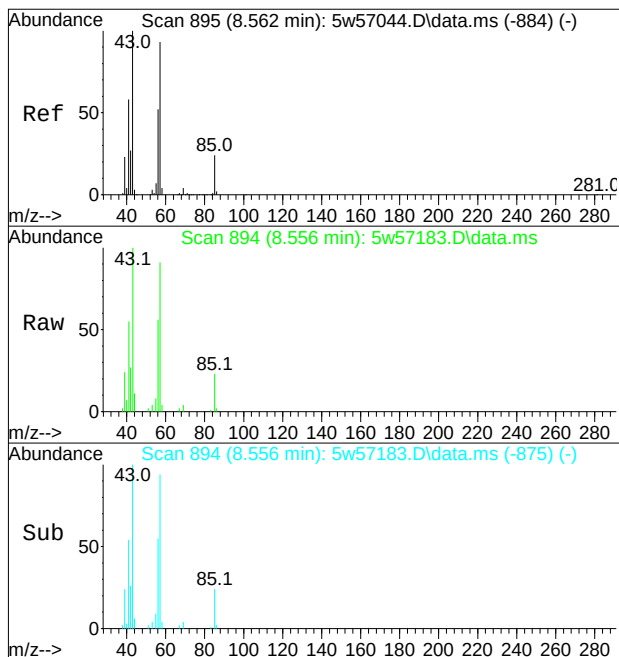
Tgt Ion:	72	Resp:	3015
Ion	Ratio	Lower	Upper
72	100		
57	27.8	3.9	63.9
43	429.9	401.3	461.3



#44
ETHYL ACETATE
Concen: 13.9538 PPBV
RT: 7.651 min Scan# 746
Delta R.T. 0.007 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

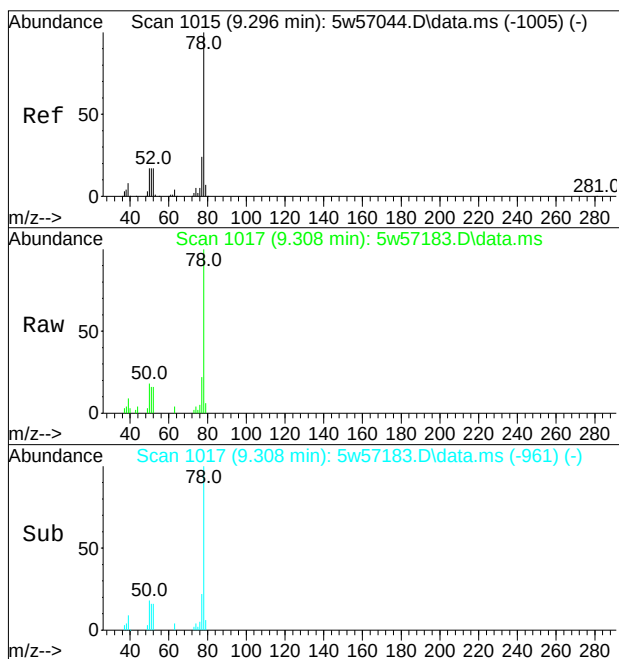
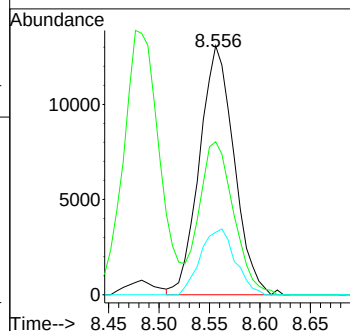
Tgt Ion:	61	Resp:	140695
Ion	Ratio	Lower	Upper
61	100		
43	654.1	0.0	30.0#
88	21.9	7.2	67.2





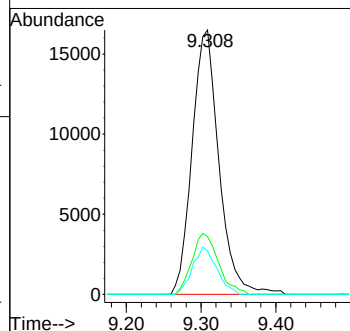
#47
2,4-DIMETHYLPENTANE
Concen: 0.4978 PPBV
RT: 8.556 min Scan# 894
Delta R.T. -0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

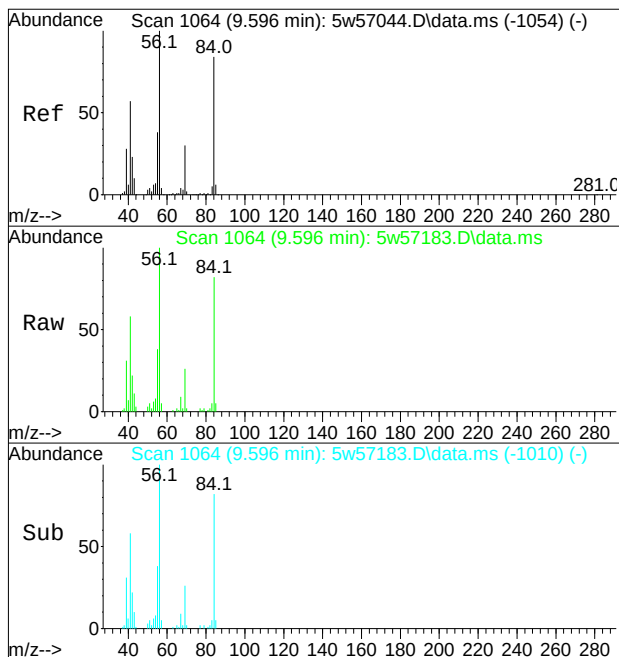
Tgt Ion	Ratio	Lower	Upper
57	100		
56	60.6	26.5	86.5
85	26.5	0.0	56.3



#52
BENZENE
Concen: 0.3756 PPBV
RT: 9.308 min Scan# 1017
Delta R.T. 0.012 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

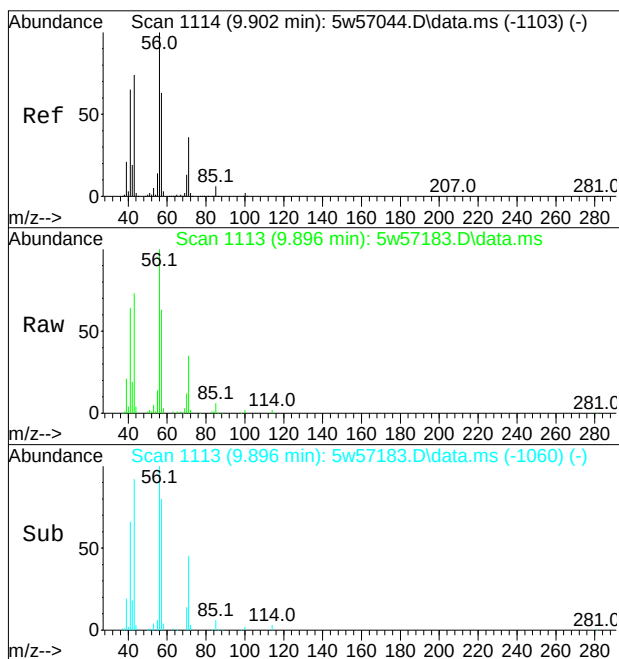
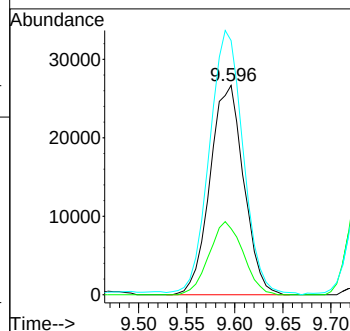
Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.8	0.0	53.7
52	16.1	0.0	46.4





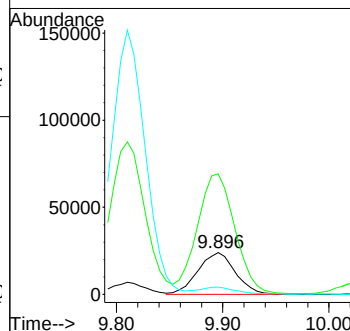
#53
CYCLOHEXANE
Concen: 1.4698 PPBV
RT: 9.596 min Scan# 1064
Delta R.T. -0.000 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

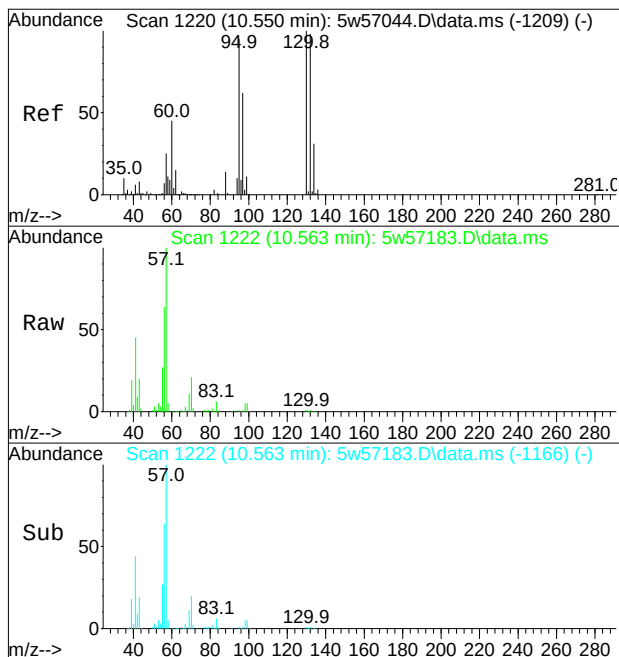
Tgt Ion: 84	Resp: 65519
Ion Ratio	Lower Upper
84 100	
69 35.2	5.9 65.9
56 126.8	90.4 150.4



#54
2,3-DIMETHYLPENTANE
Concen: 2.6486 PPBV
RT: 9.896 min Scan# 1113
Delta R.T. -0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

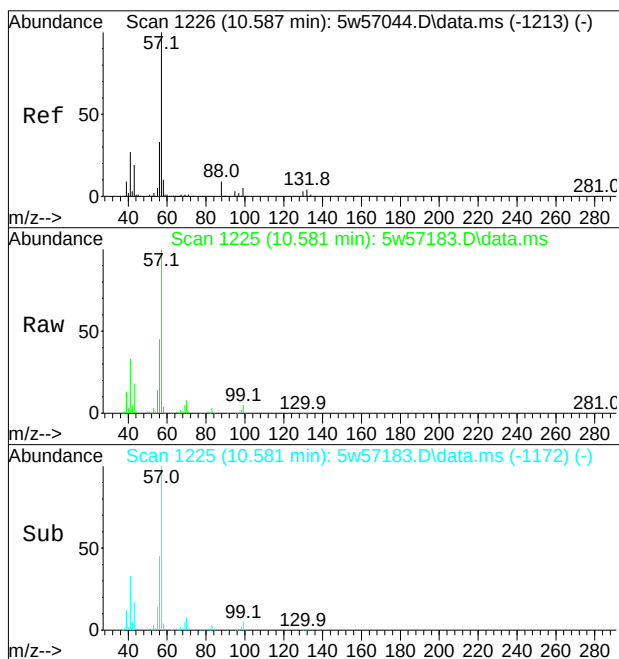
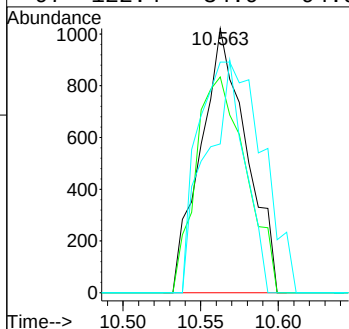
Tgt Ion: 71	Resp: 58868
Ion Ratio	Lower Upper
71 100	
56 289.9	253.7 313.7
85 16.6	0.0 45.8





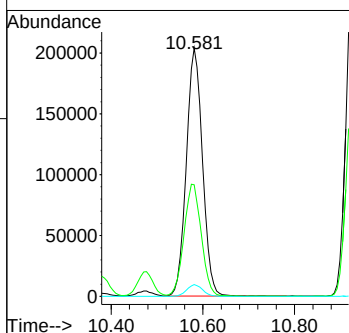
#55
TRICHLOROETHYLENE
Concen: 0.0370 PPBV
RT: 10.563 min Scan# 1222
Delta R.T. 0.013 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

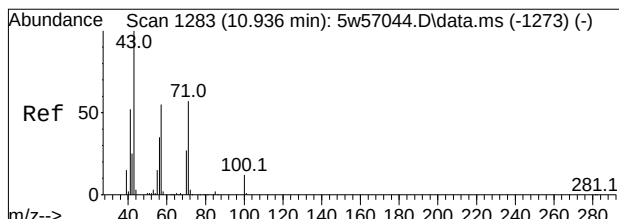
Tgt Ion: 95 Resp: 2092
Ion Ratio Lower Upper
95 100
132 89.4 74.4 134.4
130 74.5 77.2 137.2#
97 122.4 34.9 94.9#



#60
2,2,4-TRIMETHYLPENTANE
Concen: 2.9026 PPBV
RT: 10.581 min Scan# 1225
Delta R.T. -0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

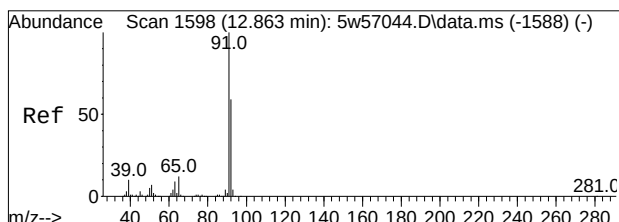
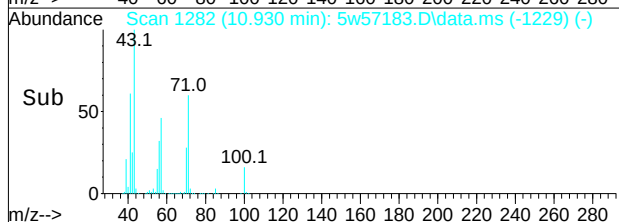
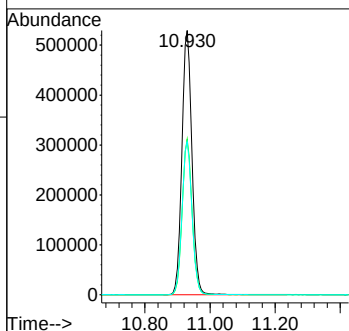
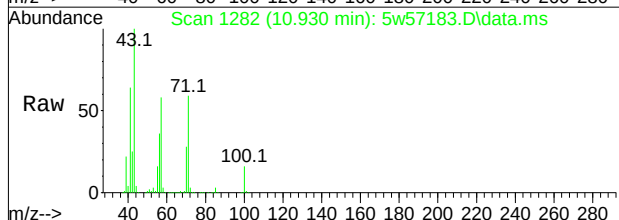
Tgt Ion: 57 Resp: 500015
Ion Ratio Lower Upper
57 100
56 48.7 2.6 62.6
99 4.7 0.0 38.0





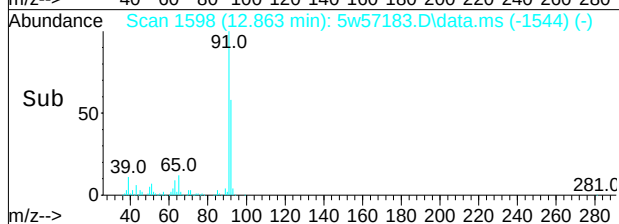
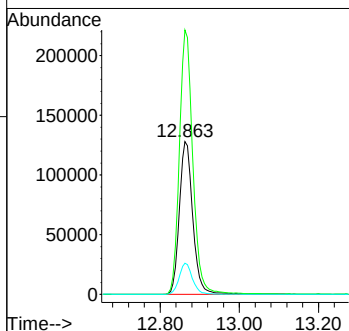
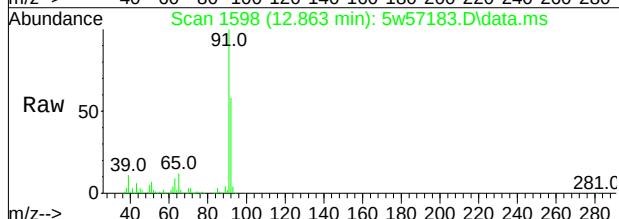
#62
HEPTANE
Concen: 19.4356 PPBV
RT: 10.930 min Scan# 1282
Delta R.T. -0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

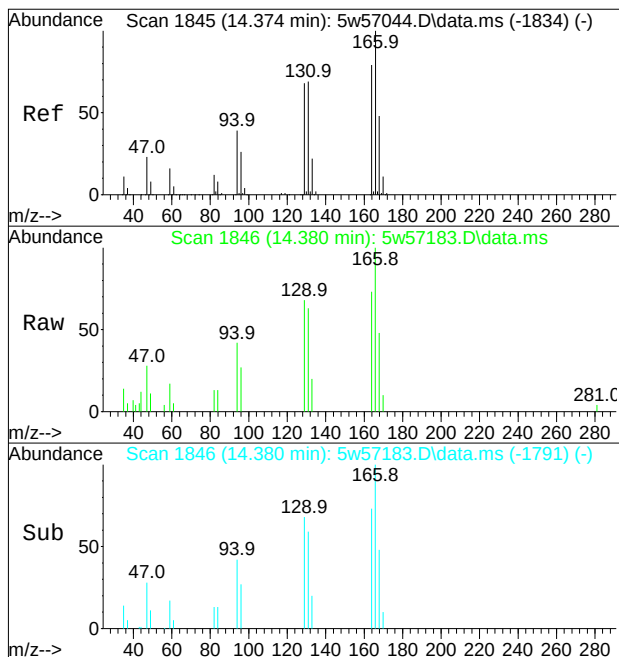
Tgt Ion: 43 Resp: 1142306
Ion Ratio Lower Upper
43 100
71 58.1 27.1 87.1
57 58.0 25.7 85.7



#66
TOLUENE
Concen: 3.7285 PPBV
RT: 12.863 min Scan# 1598
Delta R.T. -0.000 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

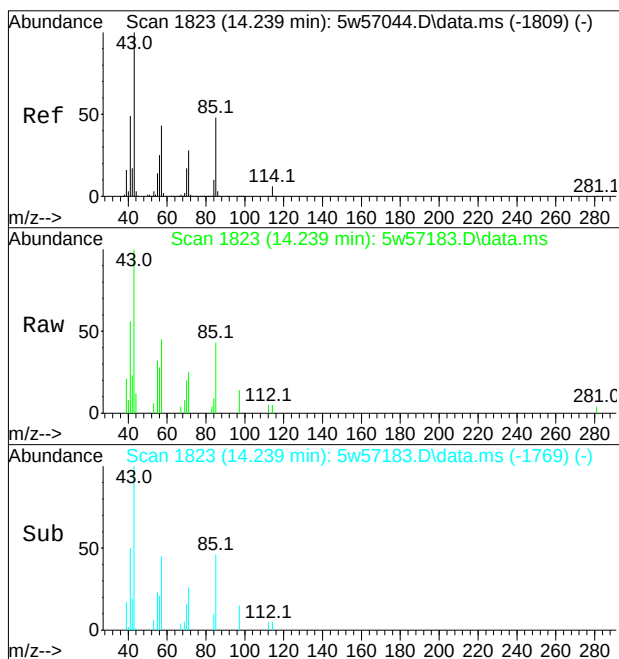
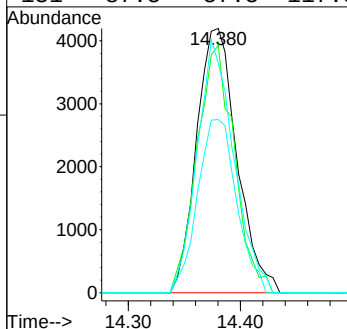
Tgt Ion: 92 Resp: 303188
Ion Ratio Lower Upper
92 100
91 173.4 140.2 200.2
65 20.3 0.0 52.3





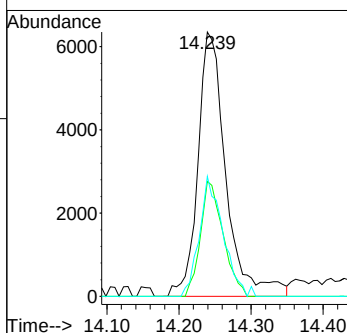
#73
TETRACHLOROETHYLENE
Concen: 0.1673 PPBV
RT: 14.380 min Scan# 1846
Delta R.T. 0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

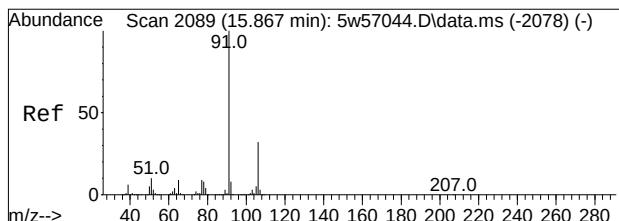
Tgt Ion:	164	Resp:	10487
Ion Ratio	Lower	Upper	
164	100		
129	86.8	58.7	118.7
168	63.5	31.6	91.6
131	87.5	57.5	117.5



#76
OCTANE
Concen: 0.2088 PPBV
RT: 14.239 min Scan# 1823
Delta R.T. 0.000 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

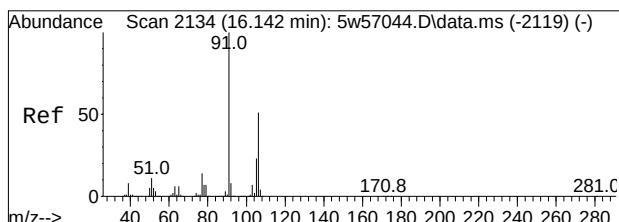
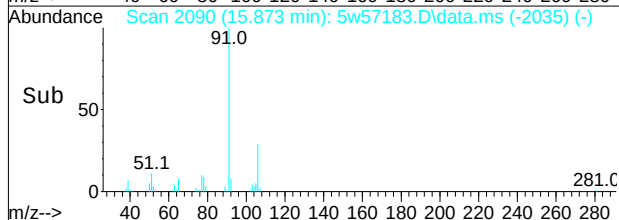
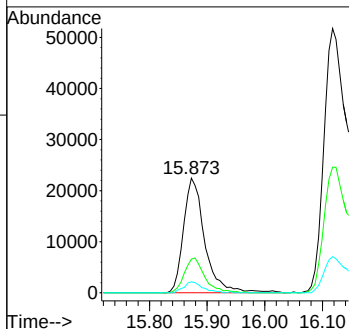
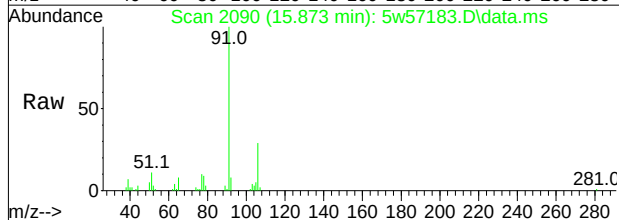
Tgt Ion:	43	Resp:	17148
Ion Ratio	Lower	Upper	
43	100		
85	35.3	17.1	77.1
57	38.4	12.7	72.7





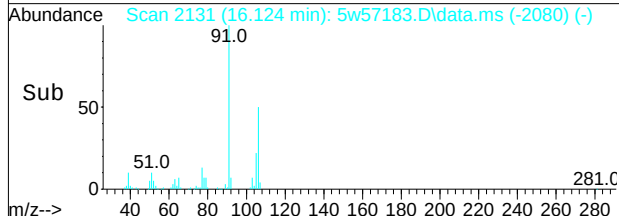
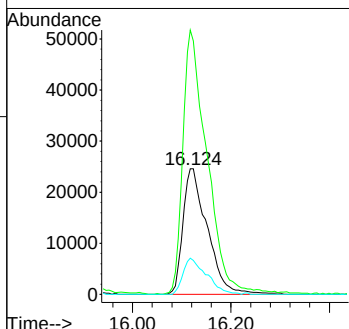
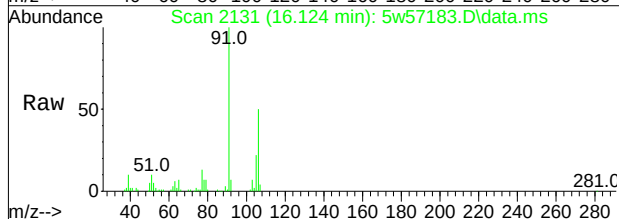
#79
ETHYLBENZENE
Concen: 0.3399 PPBV
RT: 15.873 min Scan# 2090
Delta R.T. 0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

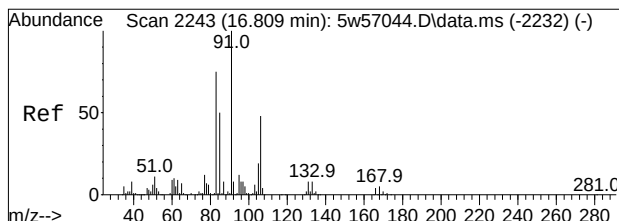
Tgt Ion: 91 Resp: 57647
Ion Ratio Lower Upper
91 100
106 29.0 2.0 62.0
77 8.5 0.0 38.6



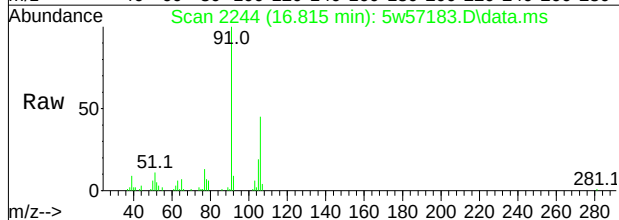
#80
m,p-XYLENE
Concen: 1.2442 PPBV
RT: 16.124 min Scan# 2131
Delta R.T. -0.018 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

Tgt Ion: 106 Resp: 84737
Ion Ratio Lower Upper
106 100
91 201.7 166.2 226.2
77 27.1 0.0 56.8

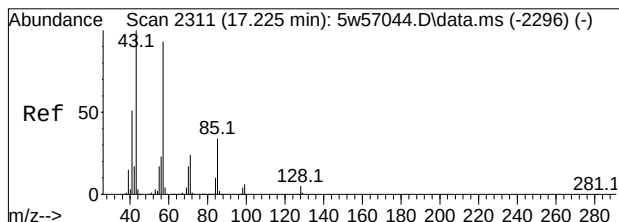
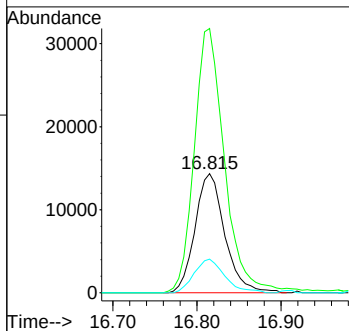
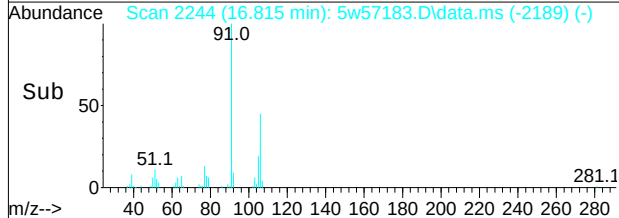




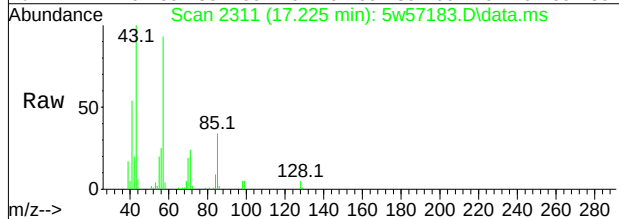
#81
o-XYLENE
Concen: 0.5416 PPBV
RT: 16.815 min Scan# 2244
Delta R.T. 0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am



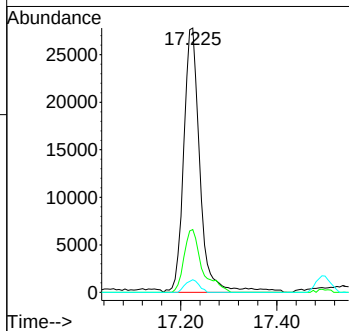
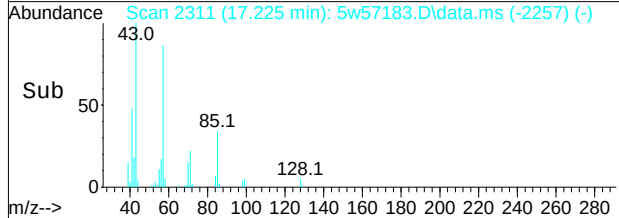
Tgt Ion: 106 Resp: 35352
Ion Ratio Lower Upper
106 100
91 228.8 177.8 237.8
77 29.1 0.0 56.1

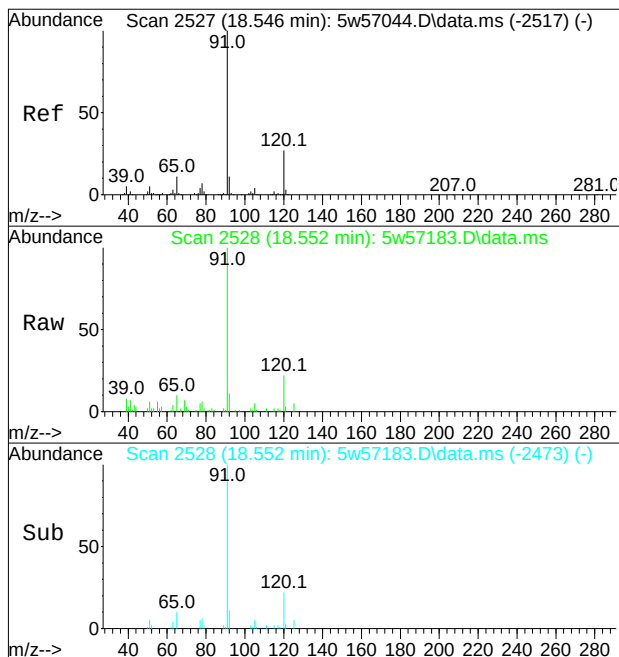


#83
NONANE
Concen: 0.7287 PPBV
RT: 17.225 min Scan# 2311
Delta R.T. -0.000 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am



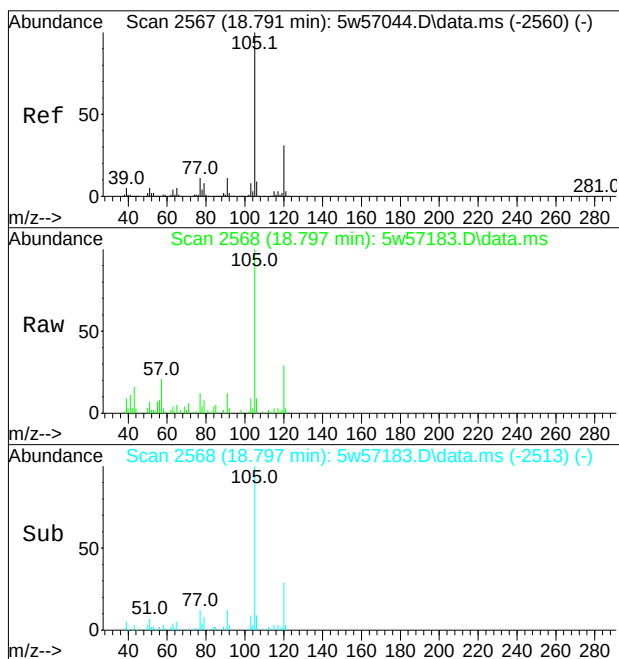
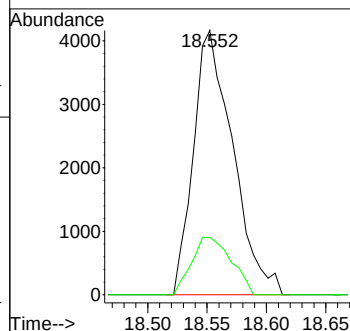
Tgt Ion: 43 Resp: 65203
Ion Ratio Lower Upper
43 100
71 26.2 0.0 53.8
128 4.0 0.0 35.4





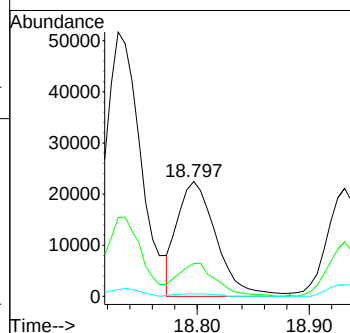
#91
n-PROPYLBENZENE
Concen: 0.1770 PPBV
RT: 18.552 min Scan# 2528
Delta R.T. 0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

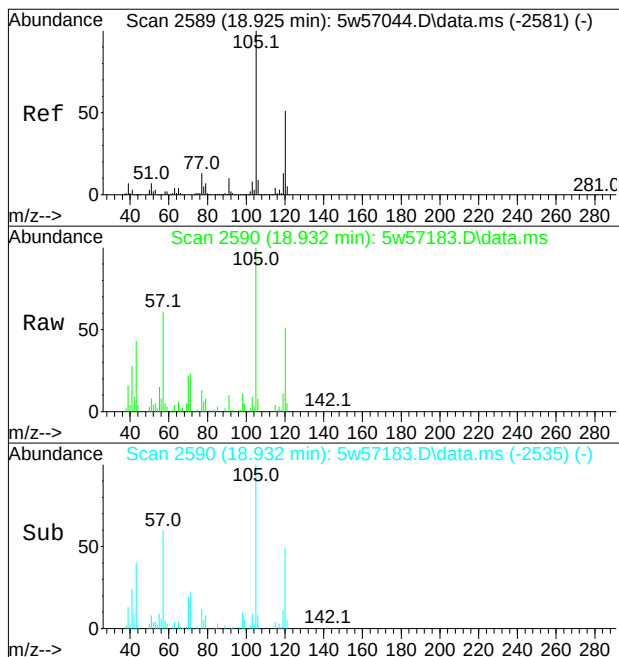
Tgt Ion:120 Resp: 9610
Ion Ratio Lower Upper
120 100
105 21.9 0.0 46.1



#92
4-ETHYLTOLUENE
Concen: 0.2879 PPBV
RT: 18.797 min Scan# 2568
Delta R.T. 0.006 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

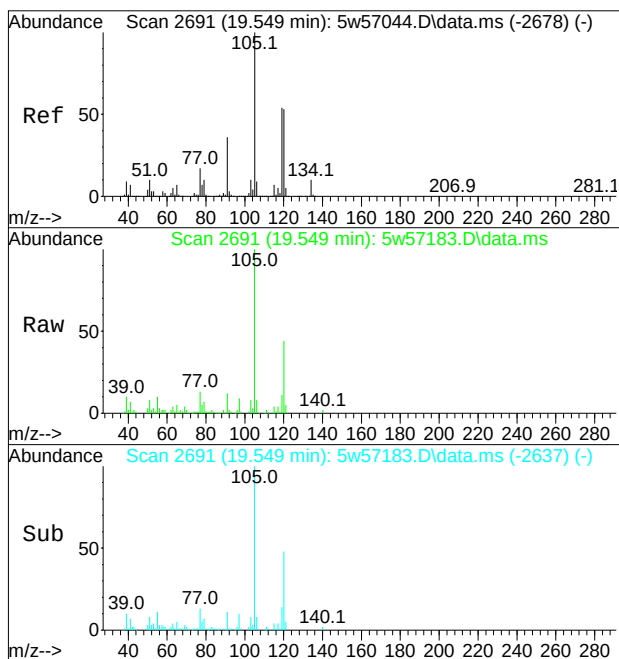
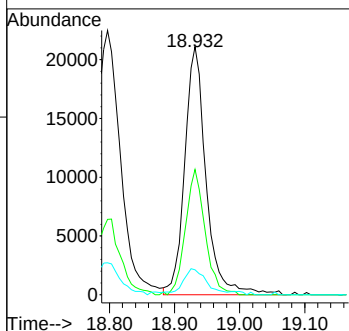
Tgt Ion:105 Resp: 54341
Ion Ratio Lower Upper
105 100
120 28.2 0.9 60.9
119 2.4 0.0 32.3





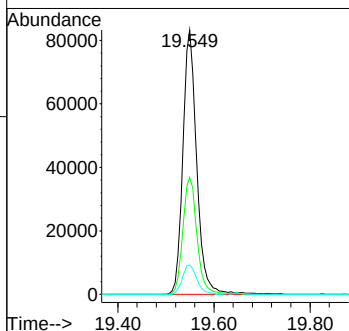
#93
1,3,5-TRIMETHYLBENZENE
Concen: 0.2932 PPBV
RT: 18.932 min Scan# 2590
Delta R.T. 0.007 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

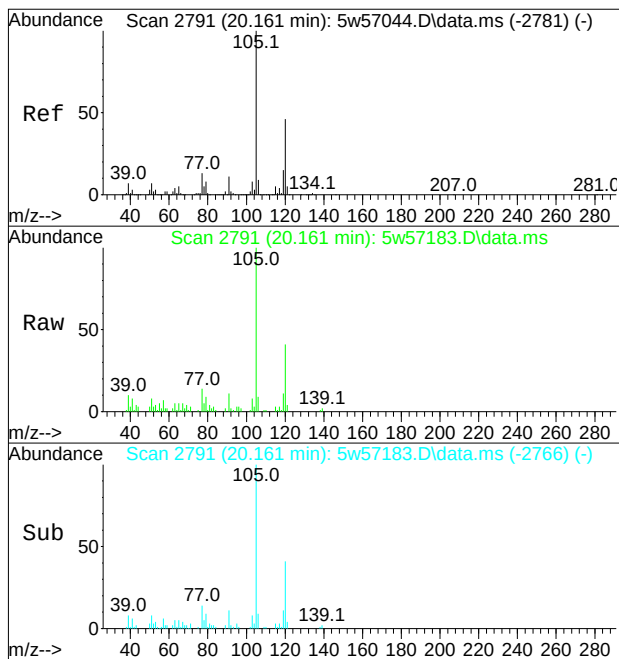
Tgt Ion:	105	Resp:	48188
Ion Ratio	Lower	Upper	
105	100		
120	46.5	20.6	80.6
91	12.1	0.0	40.5



#96
1,2,4-TRIMETHYLBENZENE
Concen: 1.0225 PPBV
RT: 19.549 min Scan# 2691
Delta R.T. 0.000 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

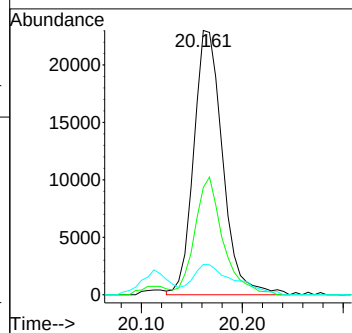
Tgt Ion:	105	Resp:	166715
Ion Ratio	Lower	Upper	
105	100		
120	45.2	27.4	87.4
119	11.6	77.3	137.3#





#101
1,2,3-TRIMETHYLBENZENE
Concen: 0.2707 PPBV
RT: 20.161 min Scan# 2791
Delta R.T. 0.000 min
Lab File: 5w57183.D
Acq: 5 Mar 2025 2:00 am

Tgt Ion:	105	Resp:	45967
Ion Ratio	Lower	Upper	
105	100		
120	43.3	25.4	85.4
91	16.4	0.0	30.0



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V5W2196\
Data File : 5w57239.D
Acq On : 7 Mar 2025 2:25 am
Operator : thomash
Sample : je5976-6 Inst : GCMS5W
Misc : MS89870,V5W2196,10,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 07 15:13:49 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	319620	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.731	114	1483548	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	676424	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.571	128	319620	10.00	PPBV	# 0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.494	95	906412	10.39	PPBV	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	103.90%	
Target Compounds						
					Qvalue	
13) n-BUTANE	3.992	43	7706	0.1832	PPBV #	83
23) ACETONE	4.732	58	549224	33.4244	PPBV #	1
24) PENTANE	5.155	42	3086	0.1032	PPBV	93
28) ETHANOL	4.408	45	5732	0.3511	PPBV	95
62) HEPTANE	10.942	43	23876	0.4329	PPBV	97

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V5W2196\
Data File : 5w57239.D
Acq On : 7 Mar 2025 2:25 am
Operator : thomash
Sample : je5976-6
Misc : MS89870,V5W2196,10,,,,,1
ALS Vial : 13 Sample Multiplier: 1

Inst : GCMS5W

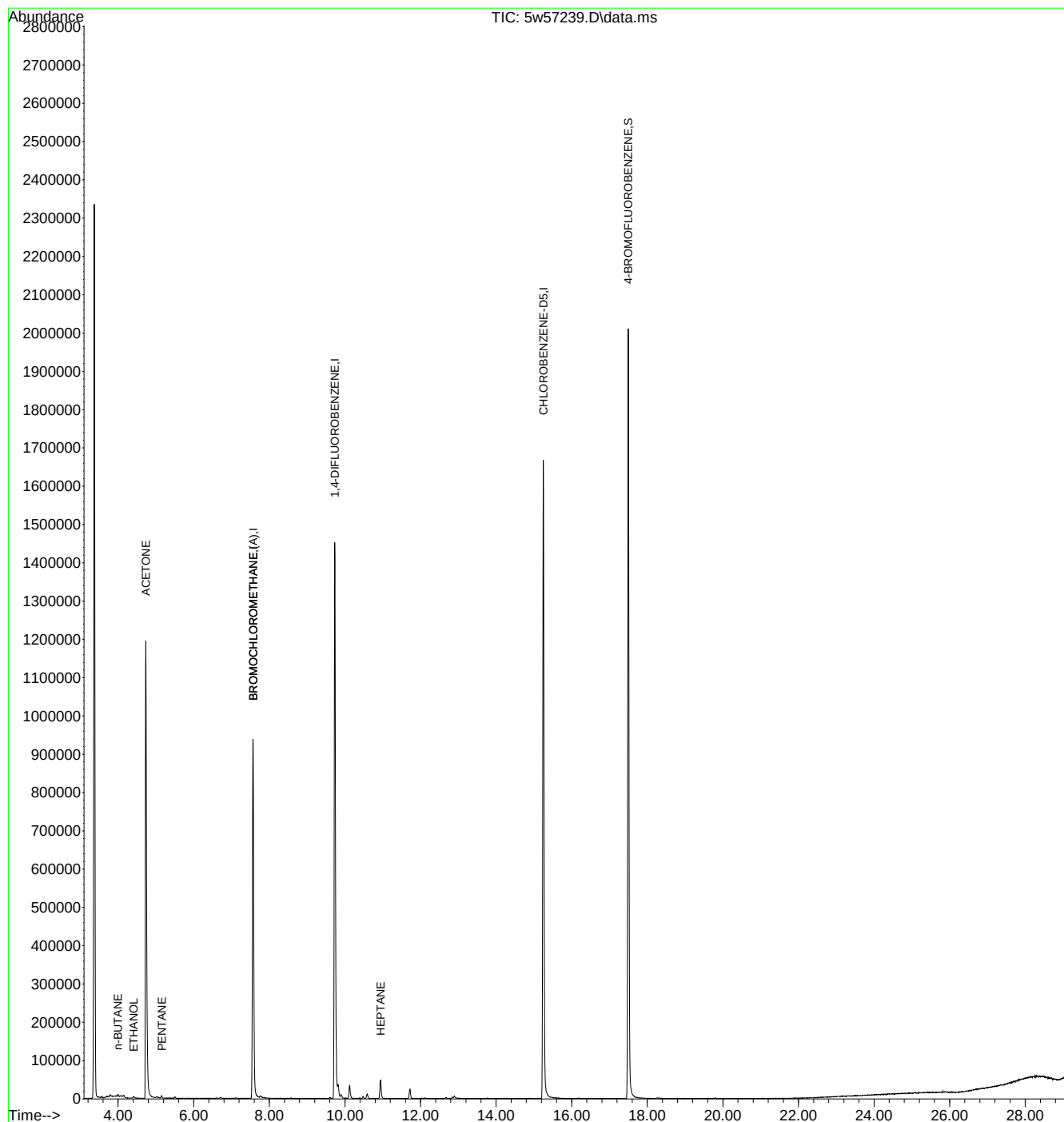
Quant Time: Mar 07 15:13:49 2025

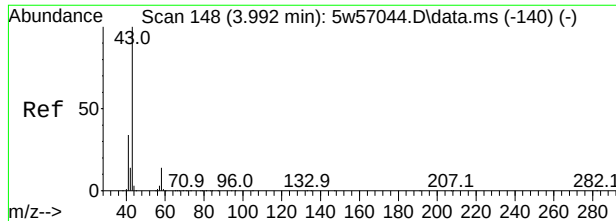
Quant Method : C:\msdchem\1\methods\M5w2187.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 14:22:14 2025

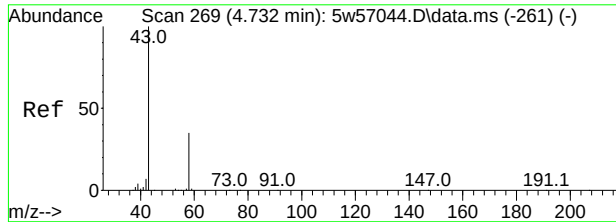
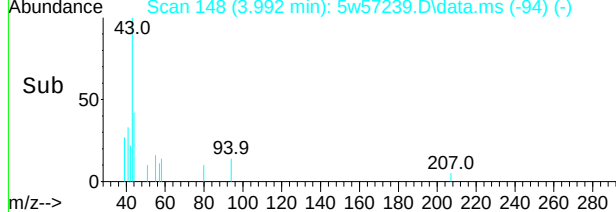
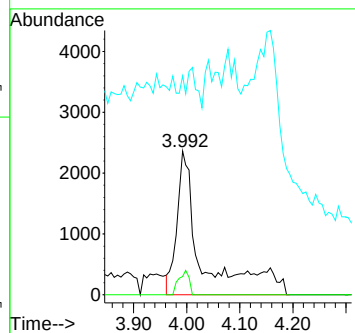
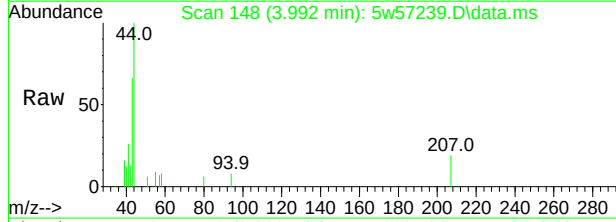
Response via : Initial Calibration





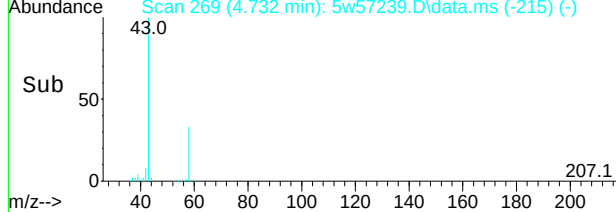
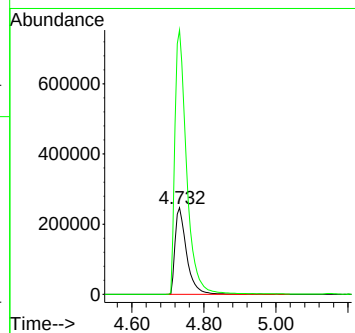
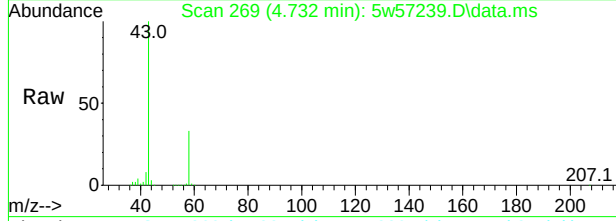
#13
n-BUTANE
Concen: 0.1832 PPBV
RT: 3.992 min Scan# 148
Delta R.T. 0.000 min
Lab File: 5w57239.D
Acq: 7 Mar 2025 2:25 am

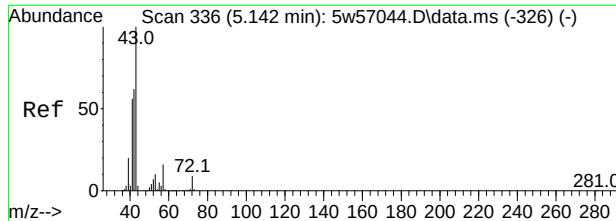
Tgt Ion:	43	Resp:	7706
Ion Ratio	Lower	Upper	
43	100		
58	7.0	0.0	43.8
44	0.0	0.0	35.5



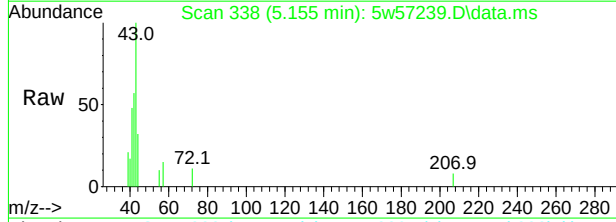
#23
ACETONE
Concen: 33.4244 PPBV
RT: 4.732 min Scan# 269
Delta R.T. 0.000 min
Lab File: 5w57239.D
Acq: 7 Mar 2025 2:25 am

Tgt Ion:	58	Resp:	549224
Ion Ratio	Lower	Upper	
58	100		
43	311.2	0.0	32.7#



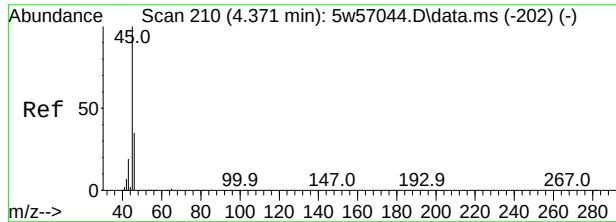
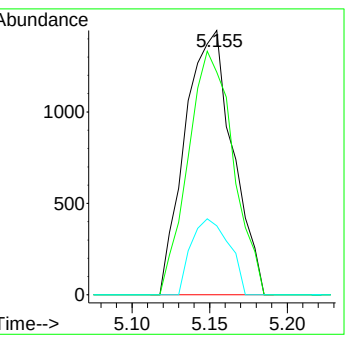
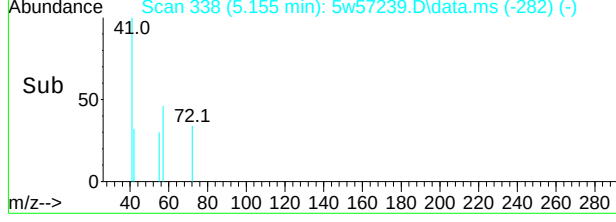


#24
PENTANE
Concen: 0.1032 PPBV
RT: 5.155 min Scan# 338
Delta R.T. 0.013 min
Lab File: 5w57239.D
Acq: 7 Mar 2025 2:25 am

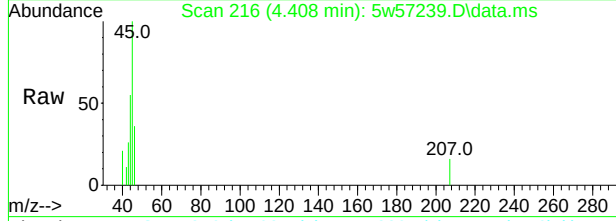


Tgt Ion: 42 Resp: 3086

Ion	Ratio	Lower	Upper
42	100		
41	87.3	62.9	122.9
57	22.9	0.0	57.4

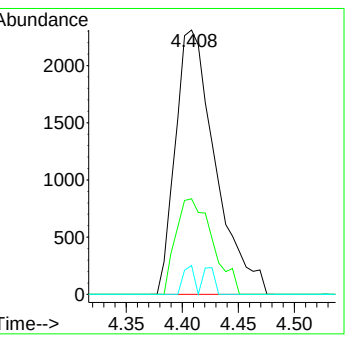
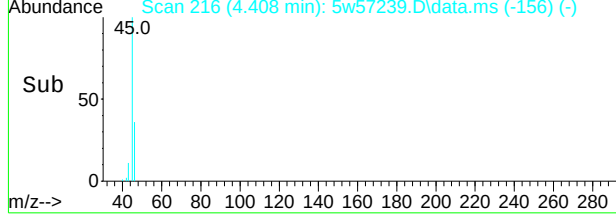


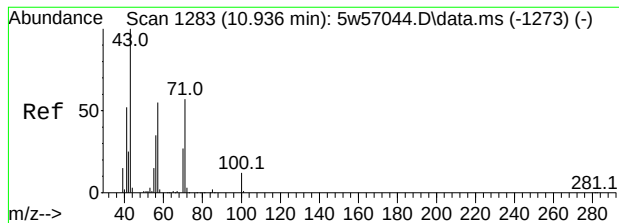
#28
ETHANOL
Concen: 0.3511 PPBV
RT: 4.408 min Scan# 216
Delta R.T. 0.037 min
Lab File: 5w57239.D
Acq: 7 Mar 2025 2:25 am



Tgt Ion: 45 Resp: 5732

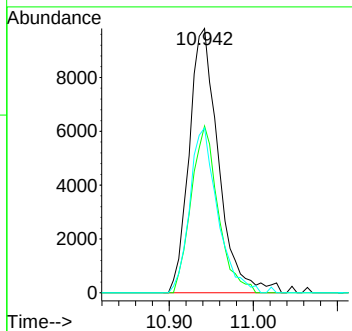
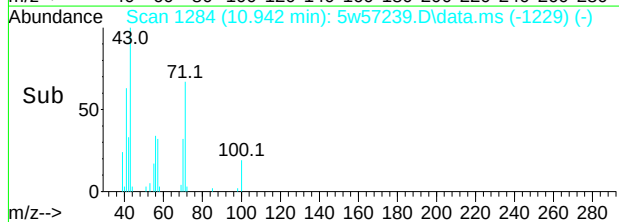
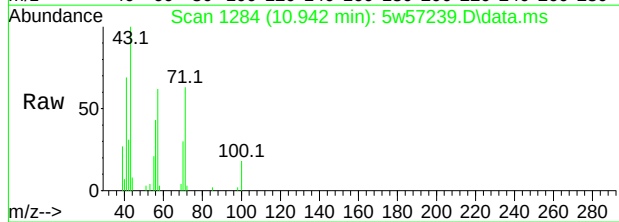
Ion	Ratio	Lower	Upper
45	100		
46	33.4	5.4	65.4
42	3.0	0.0	37.7





#62
 HEPTANE
 Concen: 0.4329 PPBV
 RT: 10.942 min Scan# 1284
 Delta R.T. 0.006 min
 Lab File: 5w57239.D
 Acq: 7 Mar 2025 2:25 am

Tgt Ion: 43 Resp: 23876
 Ion Ratio Lower Upper
 43 100
 71 57.9 27.1 87.1
 57 59.1 25.7 85.7



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13239.D
Acq On : 7 Mar 2025 1:50 am
Operator : williamc
Sample : je5976-7 Inst : MS7W
Misc : MS89870,v7w465,100,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 08 06:31:35 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

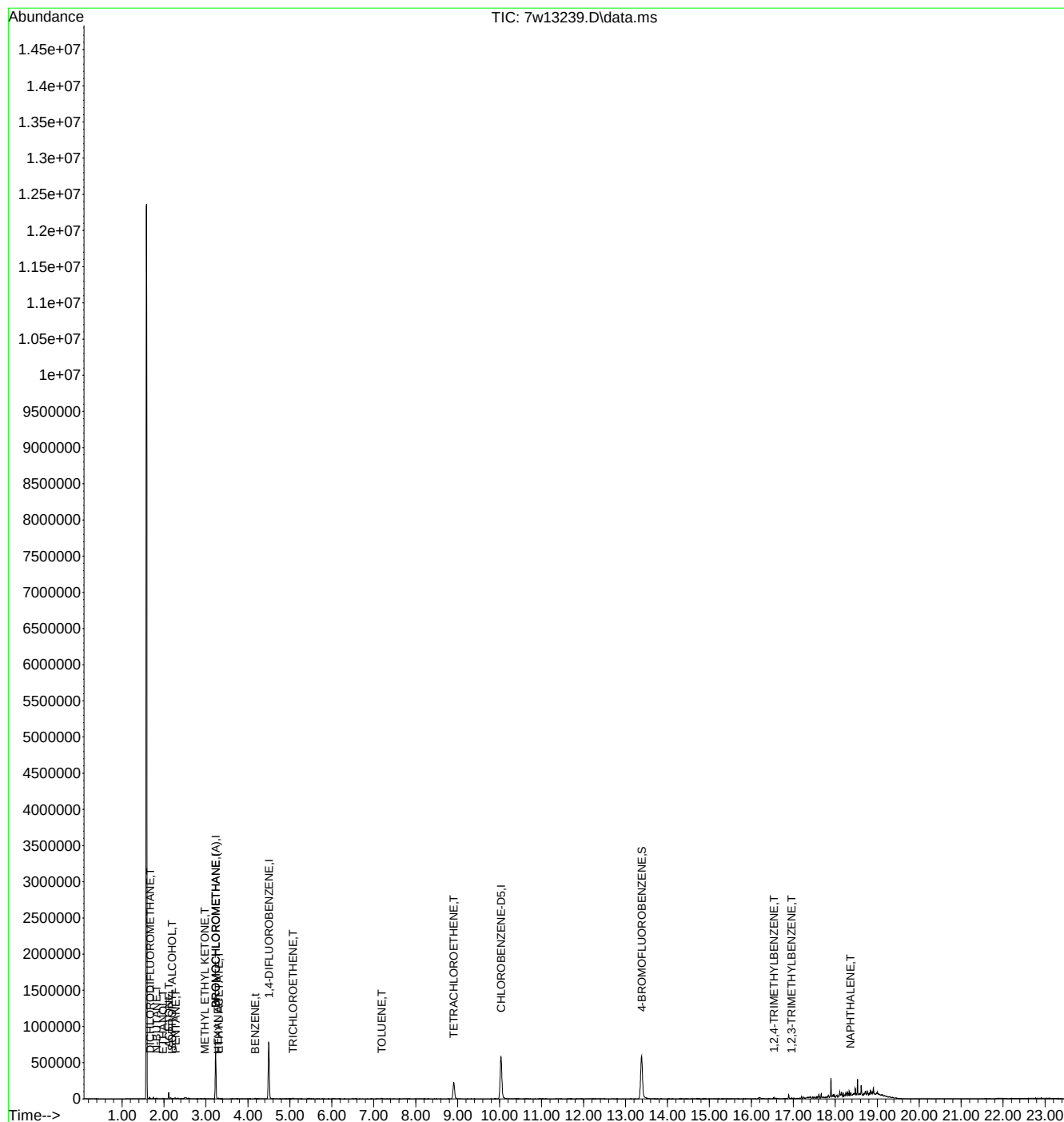
Internal Standards						
1) BROMOCHLOROMETHANE	3.232	128	130416	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.499	114	626806	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	583760	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.232	128	130416	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.386	95	413852	9.77	PPBV	0.00
Target Compounds						
					Qvalue	
6) DICHLORODIFLUOROMETHANE	1.666	85	3107	0.0956	PPBV #	93
13) N-BUTANE	1.823	43	4526	0.2676	PPBV #	97
22) ISOPROPYL ALCOHOL	2.193	45	3836	0.1588	PPBV #	88
23) ACETONE	2.113	58	20081	2.6502	PPBV	67
24) PENTANE	2.277	42	1509	0.1300	PPBV	92
28) ETHANOL	1.971	45	3475	0.5254	PPBV #	94
38) HEXANE	3.280	57	2276	0.1060	PPBV #	74
41) METHYL ETHYL KETONE	2.975	72	1259	0.2173	PPBV	94
44) ETHYL ACETATE	3.306	61	1179	0.2865	PPBV #	1
51) BENZENE	4.174	78	5427	0.1558	PPBV	98
55) TRICHLOROETHENE	5.071	95	3187	0.2000	PPBV	98
66) TOLUENE	7.193	91	7978	0.1801	PPBV	97
72) TETRACHLOROETHENE	8.907	164	87731	5.2279	PPBV	95
96) 1,2,4-TRIMETHYLBENZENE	16.534	105	9186	0.1721	PPBV #	38
102) 1,2,3-TRIMETHYLBENZENE	16.955	105	5218	0.0976	PPBV	93
108) NAPHTHALENE	18.360	128	12061	0.1850	PPBV	98

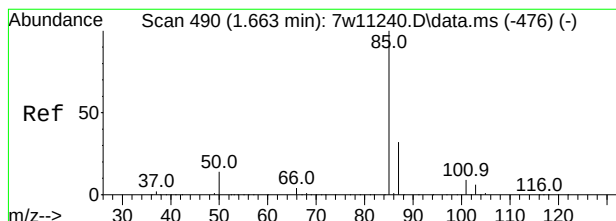
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13239.D
Acq On : 7 Mar 2025 1:50 am
Operator : williamc
Sample : je5976-7 Inst : MS7W
Misc : MS89870,v7w465,100,,,1
ALS Vial : 8 Sample Multiplier: 1

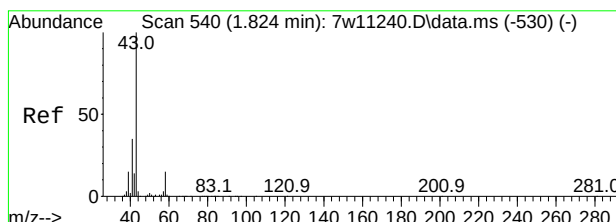
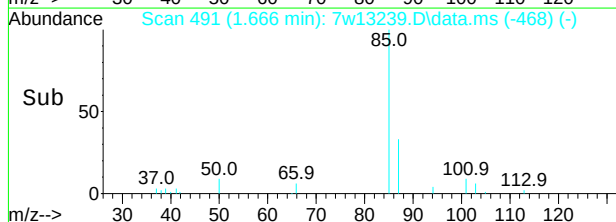
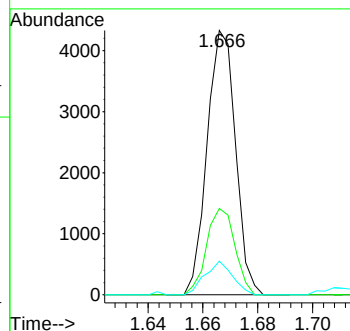
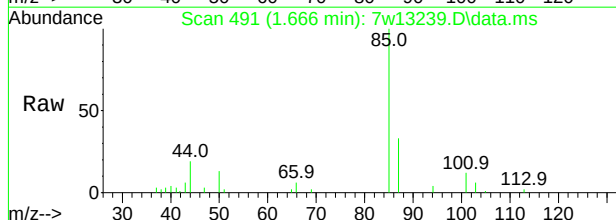
Quant Time: Mar 08 06:31:35 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration





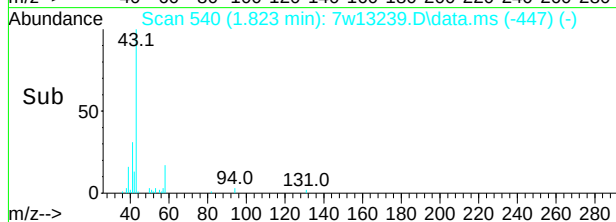
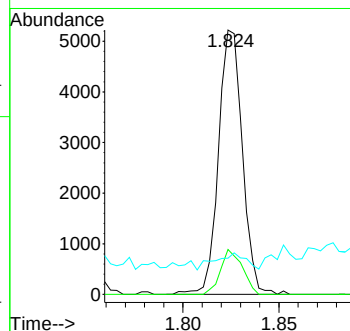
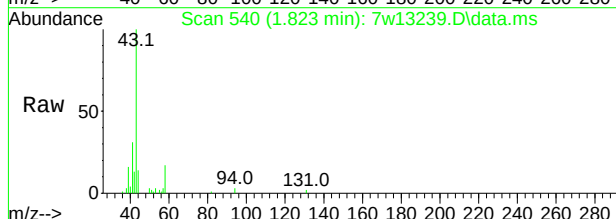
#6
 DICHLORODIFLUOROMETHANE
 Concen: 0.0956 PPBV
 RT: 1.666 min Scan# 491
 Delta R.T. 0.003 min
 Lab File: 7w13239.D
 Acq: 7 Mar 2025 1:50 am

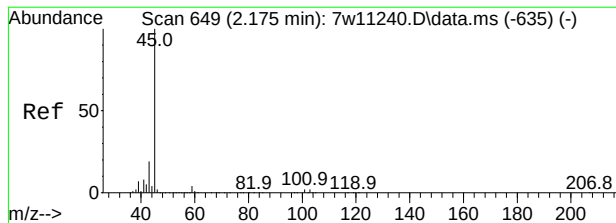
Tgt	Ion: 85	Resp:	3107
Ion	Ratio	Lower	Upper
85	100		
87	32.6	22.5	41.7
50	12.4	13.8	25.6#



#13
 N-BUTANE
 Concen: 0.2676 PPBV
 RT: 1.823 min Scan# 540
 Delta R.T. -0.001 min
 Lab File: 7w13239.D
 Acq: 7 Mar 2025 1:50 am

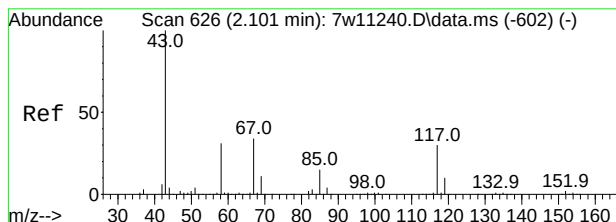
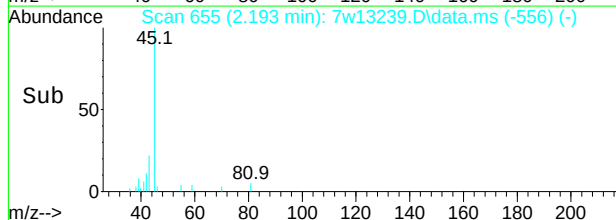
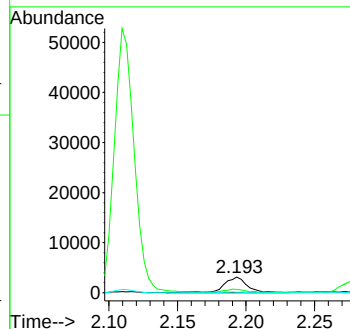
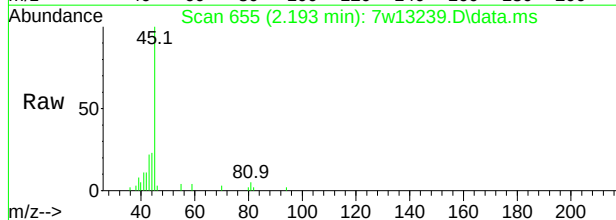
Tgt	Ion: 43	Resp:	4526
Ion	Ratio	Lower	Upper
43	100		
58	15.5	10.4	19.2
44	7.2	3.0	5.6#





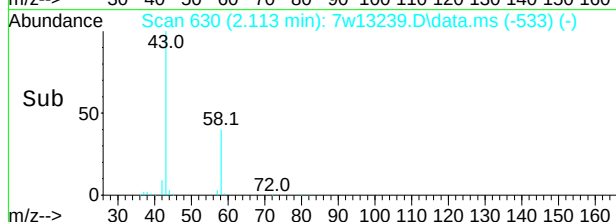
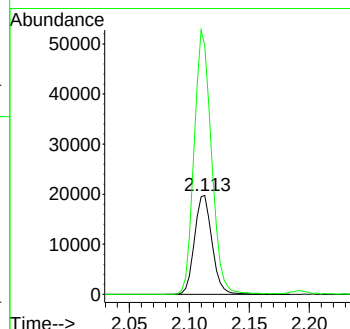
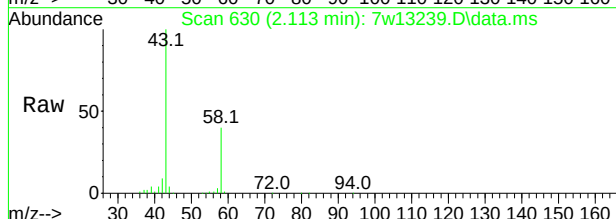
#22
ISOPROPYL ALCOHOL
Concen: 0.1588 PPBV
RT: 2.193 min Scan# 655
Delta R.T. 0.018 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

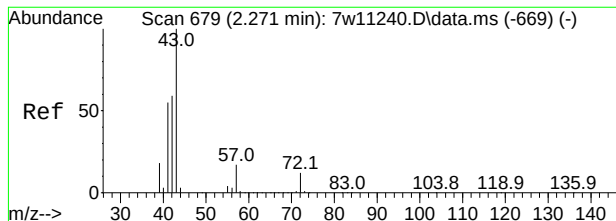
Tgt Ion	Ratio	Lower	Upper
45	100		
43	26.4	13.9	25.9
59	3.6	2.8	5.2



#23
ACETONE
Concen: 2.6502 PPBV
RT: 2.113 min Scan# 630
Delta R.T. 0.012 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

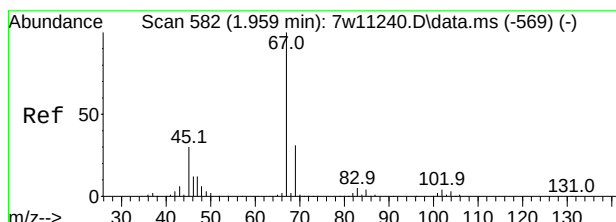
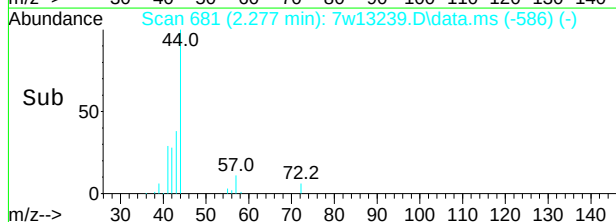
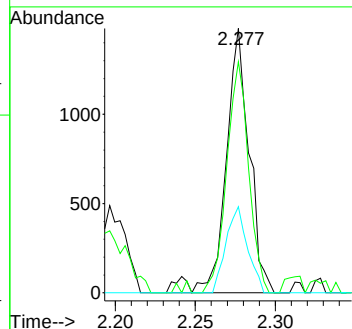
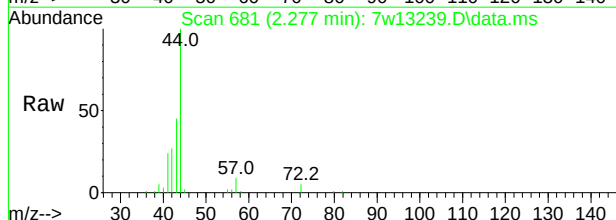
Tgt Ion	Ratio	Lower	Upper
58	100		
43	265.4	234.4	435.2





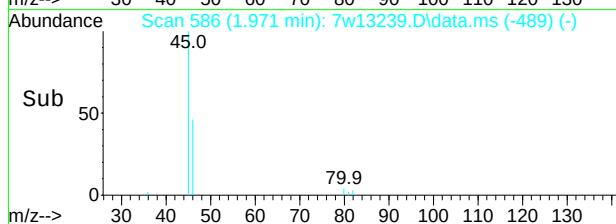
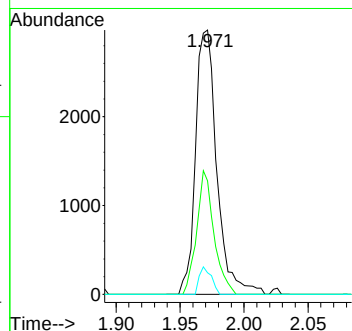
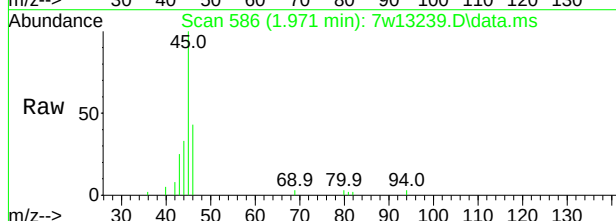
#24
PENTANE
Concen: 0.1300 PPBV
RT: 2.277 min Scan# 681
Delta R.T. 0.006 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

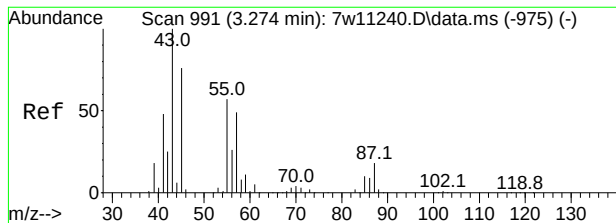
Tgt Ion	Ratio	Lower	Upper
42	100		
41	83.4	64.8	120.3
57	30.0	19.7	36.7



#28
ETHANOL
Concen: 0.5254 PPBV
RT: 1.971 min Scan# 586
Delta R.T. 0.012 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

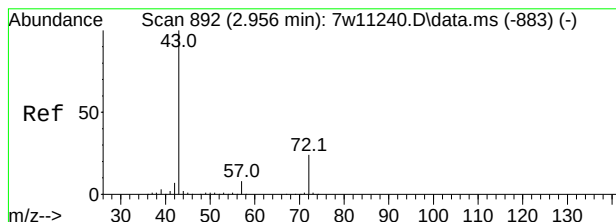
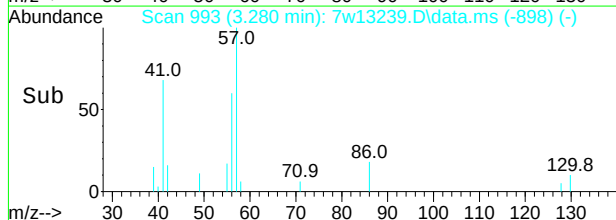
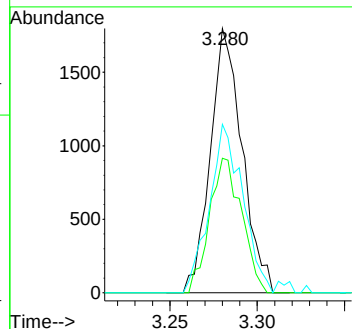
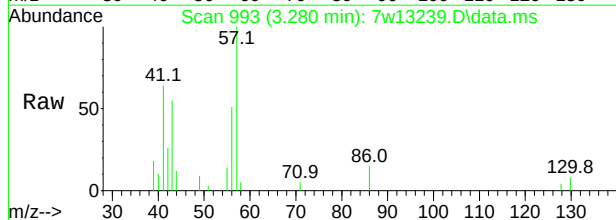
Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.7	28.6	53.0
42	5.8	6.3	11.7#





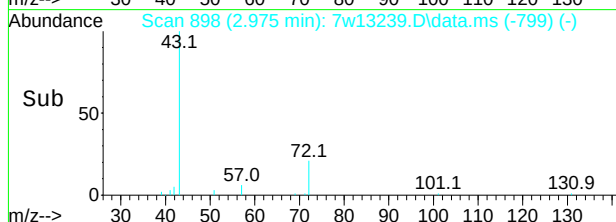
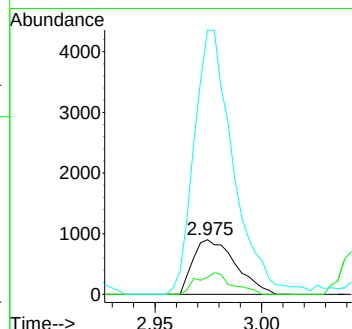
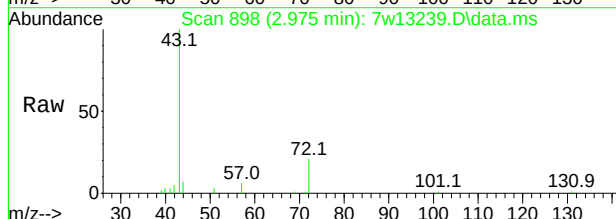
#38
 HEXANE
 Concen: 0.1060 PPBV
 RT: 3.280 min Scan# 993
 Delta R.T. 0.006 min
 Lab File: 7w13239.D
 Acq: 7 Mar 2025 1:50 am

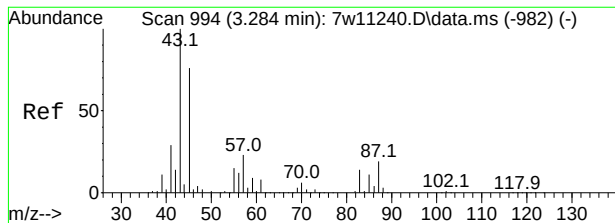
Tgt Ion: 57 Resp: 2276
 Ion Ratio Lower Upper
 57 100
 56 51.6 37.8 70.2
 41 69.2 75.9 140.9#



#41
 METHYL ETHYL KETONE
 Concen: 0.2173 PPBV
 RT: 2.975 min Scan# 898
 Delta R.T. 0.019 min
 Lab File: 7w13239.D
 Acq: 7 Mar 2025 1:50 am

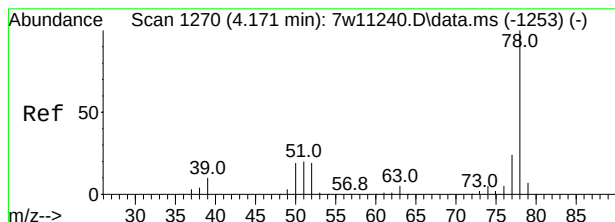
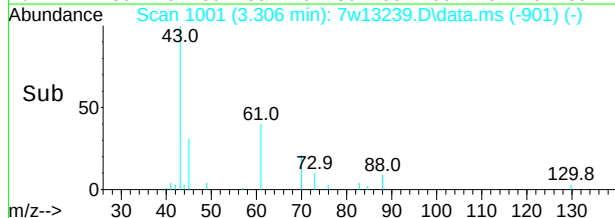
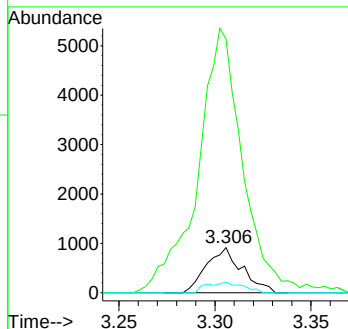
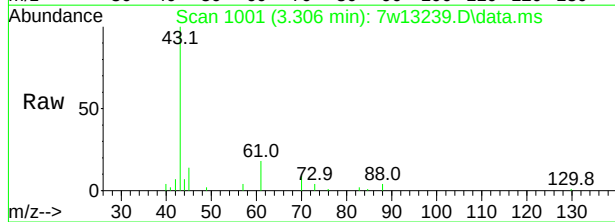
Tgt Ion: 72 Resp: 1259
 Ion Ratio Lower Upper
 72 100
 57 32.5 25.3 46.9
 43 444.0 299.6 556.4





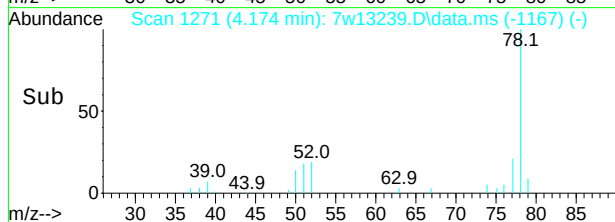
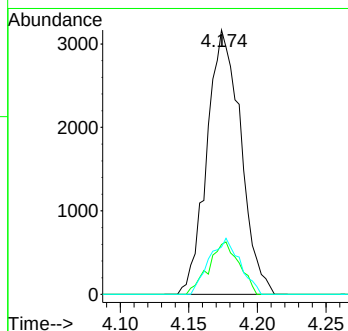
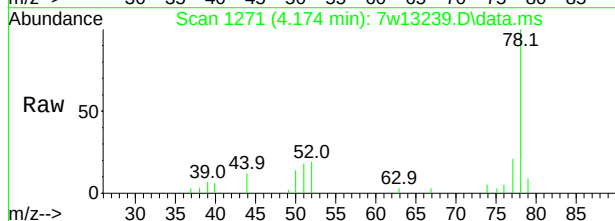
#44
ETHYL ACETATE
Concen: 0.2865 PPBV
RT: 3.306 min Scan# 1001
Delta R.T. 0.022 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

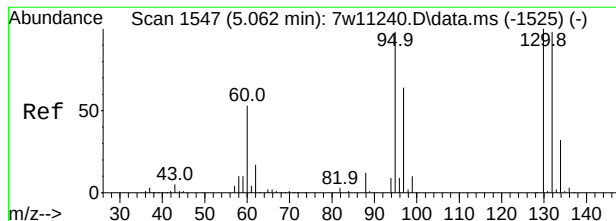
Tgt Ion	Ratio	Lower	Upper
61	100		
43	748.4	1005.1	1866.5#
88	23.8	29.3	54.5#



#51
BENZENE
Concen: 0.1558 PPBV
RT: 4.174 min Scan# 1271
Delta R.T. 0.003 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

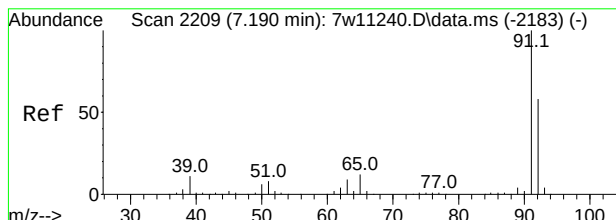
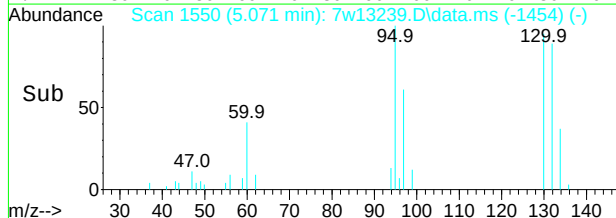
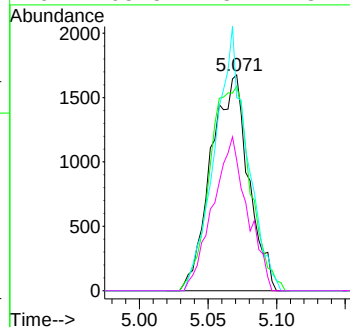
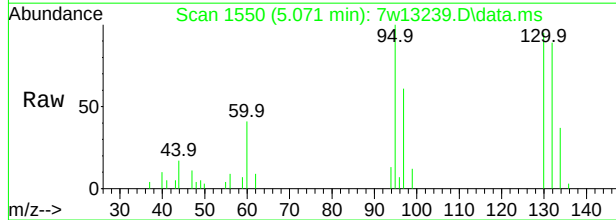
Tgt Ion	Ratio	Lower	Upper
78	100		
52	17.9	0.0	48.9
51	19.4	0.0	50.2





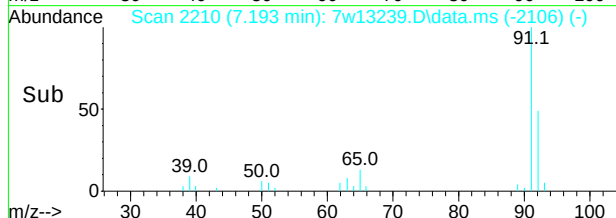
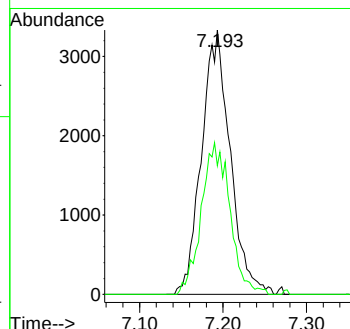
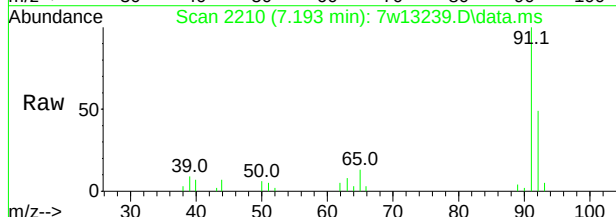
#55
TRICHLOROETHENE
Concen: 0.2000 PPBV
RT: 5.071 min Scan# 1550
Delta R.T. 0.009 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

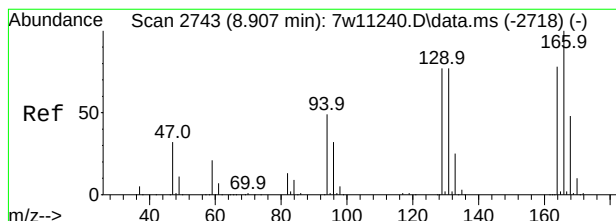
Tgt Ion:	95	Resp:	3187
Ion	Ratio	Lower	Upper
95	100		
130	102.4	72.8	135.2
132	105.5	71.9	133.5
97	65.5	45.4	84.2



#66
TOLUENE
Concen: 0.1801 PPBV
RT: 7.193 min Scan# 2210
Delta R.T. 0.003 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

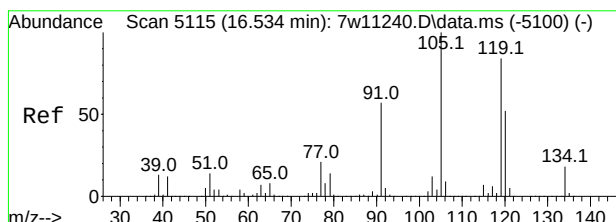
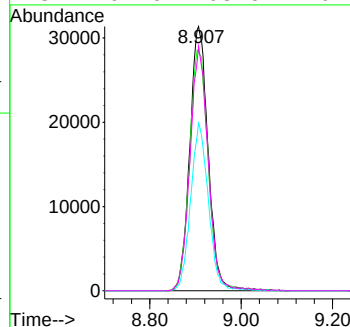
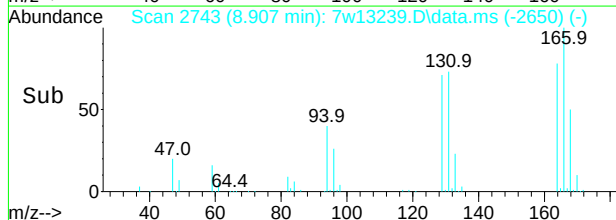
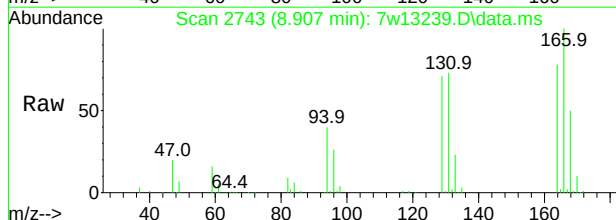
Tgt Ion:	91	Resp:	7978
Ion	Ratio	Lower	Upper
91	100		
92	57.0	29.0	89.0





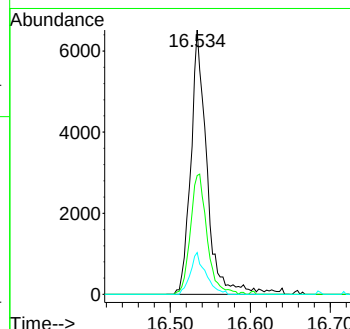
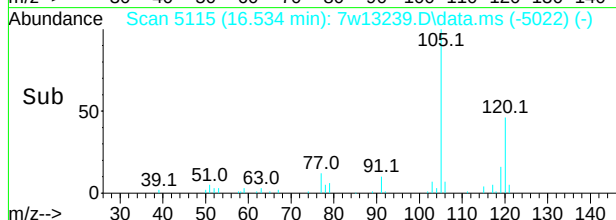
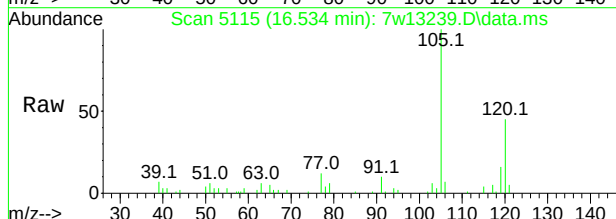
#72
TETRACHLOROETHENE
Concen: 5.2279 PPBV
RT: 8.907 min Scan# 2743
Delta R.T. -0.000 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

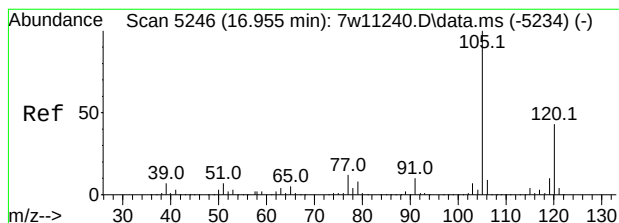
Tgt Ion:	164	Resp:	87731
Ion Ratio	Lower	Upper	
164	100		
129	92.6	68.9	127.9
168	61.3	42.3	78.5
131	91.0	68.0	126.2



#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.1721 PPBV
RT: 16.534 min Scan# 5115
Delta R.T. -0.000 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

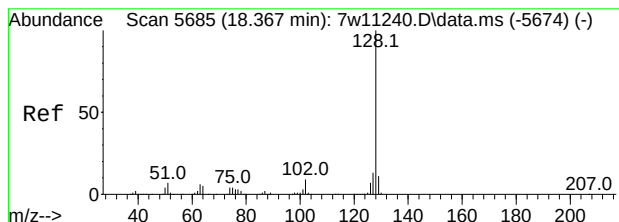
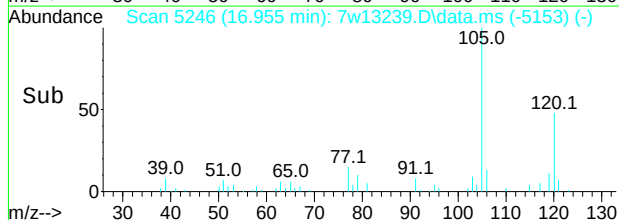
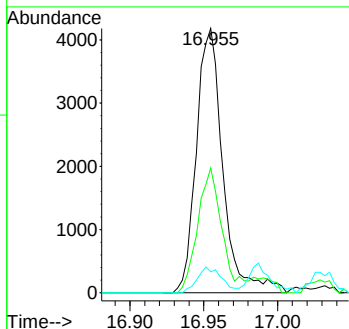
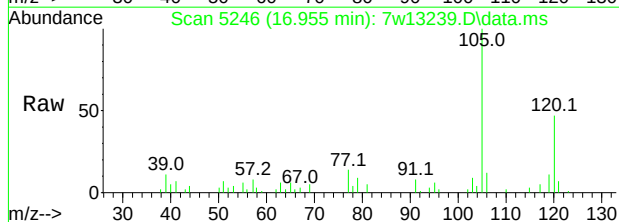
Tgt Ion:	105	Resp:	9186
Ion Ratio	Lower	Upper	
105	100		
120	46.7	38.8	72.0
119	15.0	74.3	137.9#





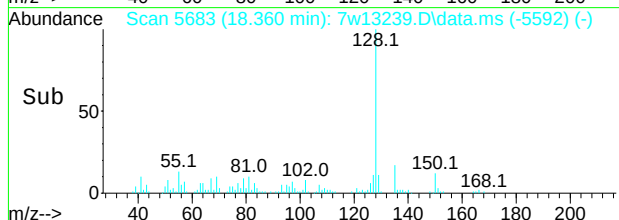
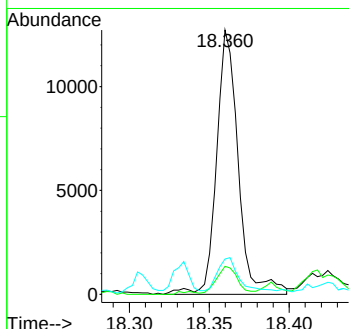
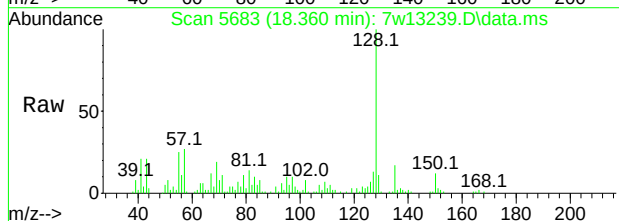
#102
1,2,3-TRIMETHYLBENZENE
Concen: 0.0976 PPBV
RT: 16.955 min Scan# 5246
Delta R.T. -0.000 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

Tgt Ion:	105	Resp:	5218
Ion Ratio	Lower	Upper	
105	100		
120	48.3	30.2	56.2
91	9.2	7.1	13.3



#108
NAPHTHALENE
Concen: 0.1850 PPBV
RT: 18.360 min Scan# 5683
Delta R.T. -0.007 min
Lab File: 7w13239.D
Acq: 7 Mar 2025 1:50 am

Tgt Ion:	128	Resp:	12061
Ion Ratio	Lower	Upper	
128	100		
129	11.3	7.6	14.2
127	11.3	8.9	16.5



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\
Data File : 5w57184.D
Acq On : 5 Mar 2025 2:54 am
Operator : thomash
Sample : je5976-8 Inst : GCMS5W
Misc : MS89870,V5W2194,400,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 11 02:47:36 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	332878	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1609627	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	790931	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.571	128	332878	10.00	PPBV	# 0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	17.494	95	1066115	10.46	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	104.60%

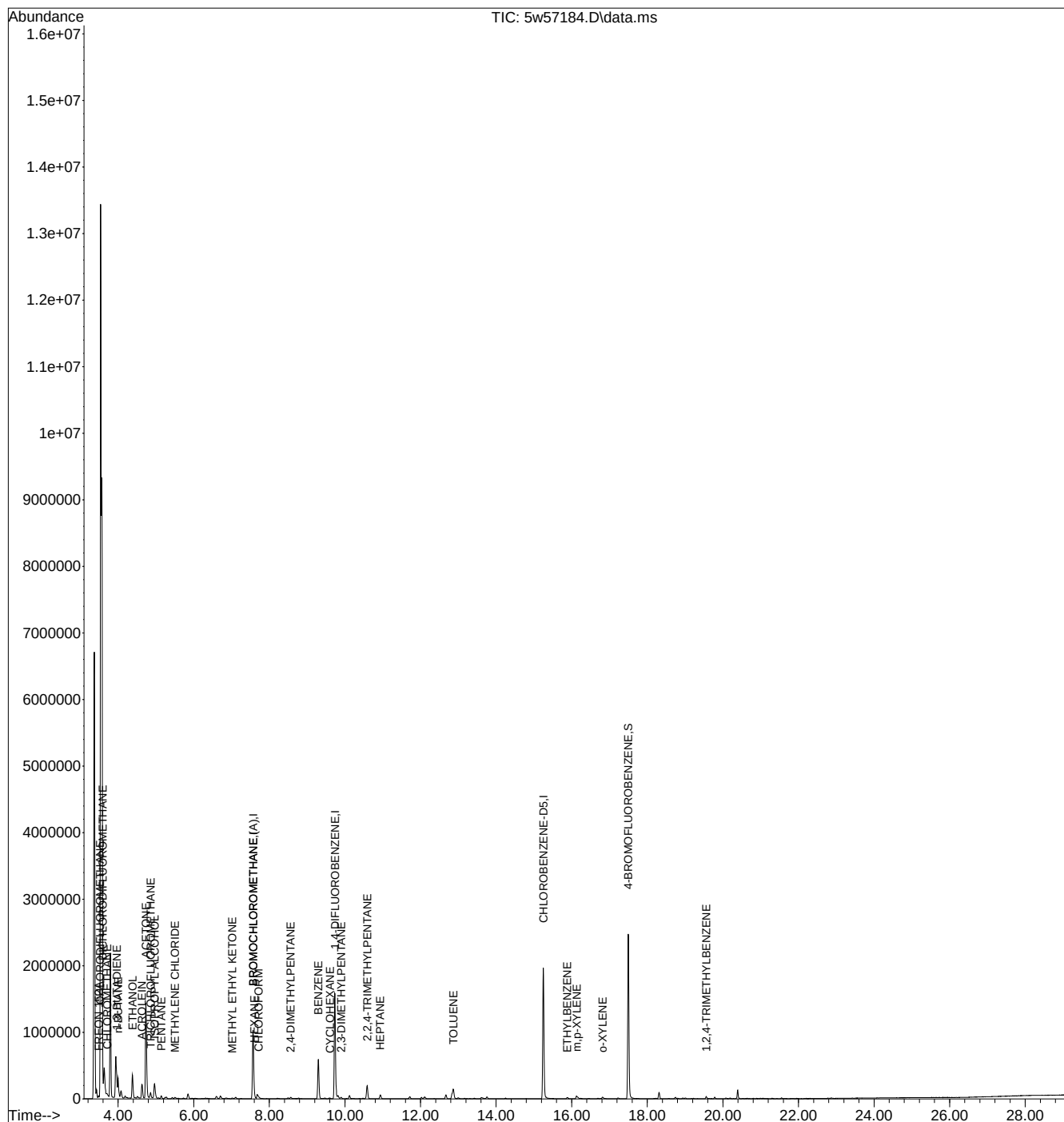
Target Compounds					Qvalue	
3) FREON 152A	3.485	65	14297	0.5547	PPBV	95
4) CHLORODIFLUOROMETHANE	3.515	67	3190	0.2720	PPBV	93
6) DICHLORODIFLUOROMETHANE	3.589	85	50851	0.4827	PPBV	100
10) CHLOROMETHANE	3.711	52	8458	0.6311	PPBV	87
12) 1,3-BUTADIENE	3.962	54	157314	5.8480	PPBV #	31
13) n-BUTANE	3.998	43	247907	5.6598	PPBV	98
18) ACROLEIN	4.629	56	194962	13.5402	PPBV	95
21) TRICHLOROFLUOROMETHANE	4.861	101	29283	0.2834	PPBV	100
22) ISOPROPYL ALCOHOL	4.965	45	323129	4.7276	PPBV	93
23) ACETONE	4.733	58	715687	41.8202	PPBV #	1
24) PENTANE	5.142	42	19331	0.6206	PPBV	95
28) ETHANOL	4.378	45	439277	25.8331	PPBV	100
31) METHYLENE CHLORIDE	5.503	84	7569	0.2355	PPBV	96
38) HEXANE	7.602	57	18001	0.3180	PPBV	86
41) METHYL ETHYL KETONE	7.014	72	5443	0.4085	PPBV	89
46) CHLOROFORM	7.712	83	10341	0.1350	PPBV	96
47) 2,4-DIMETHYLPENTANE	8.562	57	9015	0.1413	PPBV	96
52) BENZENE	9.296	78	636610	5.7083	PPBV	100
53) CYCLOHEXANE	9.602	84	5720	0.1260	PPBV	89
54) 2,3-DIMETHYLPENTANE	9.902	71	3996	0.1766	PPBV	86
60) 2,2,4-TRIMETHYLPENTANE	10.587	57	219865	1.2536	PPBV	94
62) HEPTANE	10.936	43	28713	0.4798	PPBV	99
66) TOLUENE	12.869	92	76279	0.9213	PPBV	95
79) ETHYLBENZENE	15.885	91	23456	0.1359	PPBV	98
80) m,p-XYLENE	16.130	106	26243	0.3785	PPBV	95
81) o-XYLENE	16.821	106	10640	0.1601	PPBV	96
96) 1,2,4-TRIMETHYLBENZENE	19.556	105	23964	0.1444	PPBV #	35

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

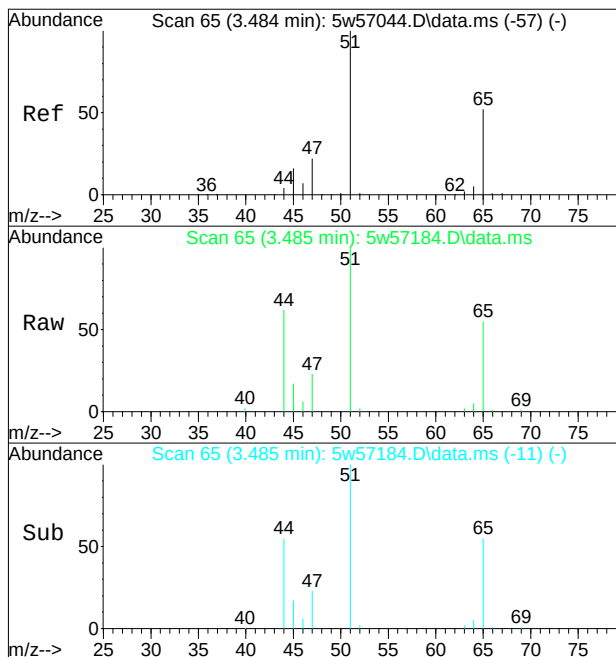
Quantitation Report (QT Reviewed)

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Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\  
Data File : 5w57184.D  
Acq On   : 5 Mar 2025 2:54 am  
Operator : thomash  
Sample   : je5976-8                               Inst    : GCMS5W  
Misc     : MS89870,V5W2194,400,,,1  
ALS Vial : 6 Sample Multiplier: 1
```

Quant Time: Mar 11 02:47:36 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

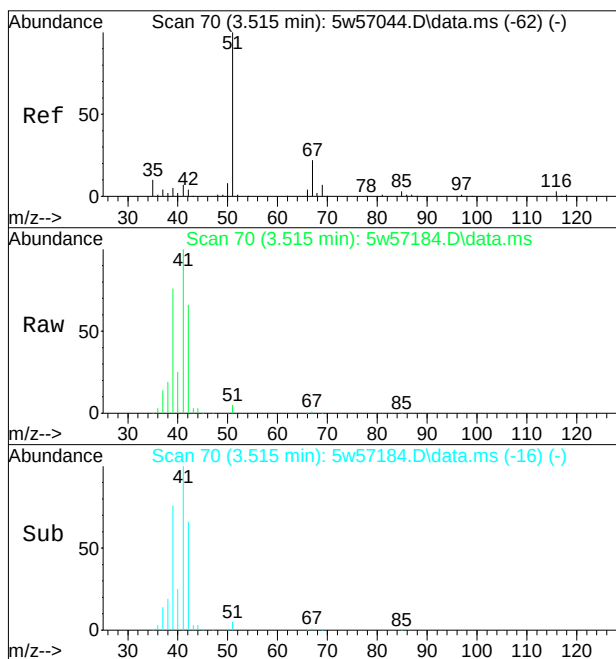
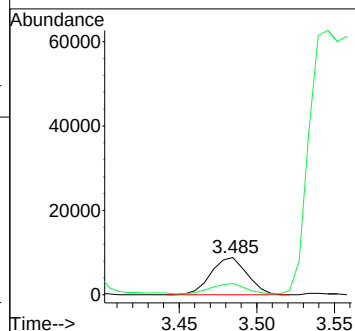


7.1.10



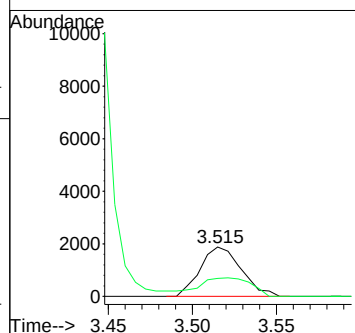
#3
FREON 152A
Concen: 0.5547 PPBV
RT: 3.485 min Scan# 65
Delta R.T. 0.001 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

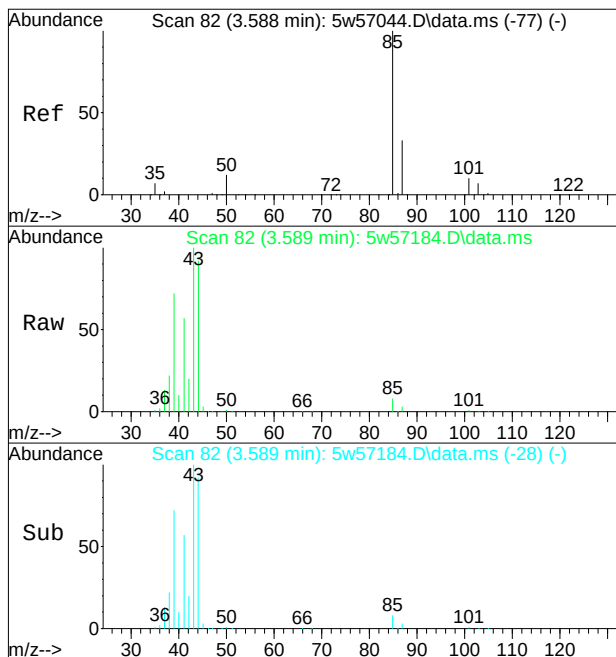
Tgt Ion: 65 Resp: 14297
Ion Ratio Lower Upper
65 100
45 28.4 1.3 61.3



#4
CHLORODIFLUOROMETHANE
Concen: 0.2720 PPBV
RT: 3.515 min Scan# 70
Delta R.T. 0.000 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

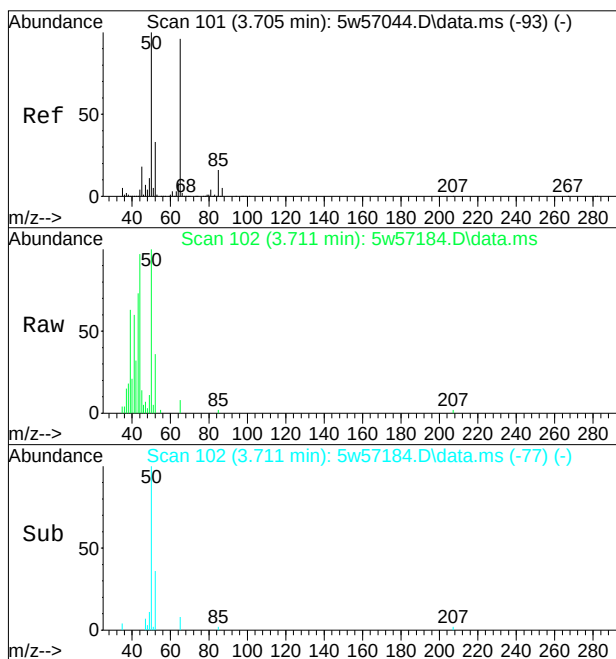
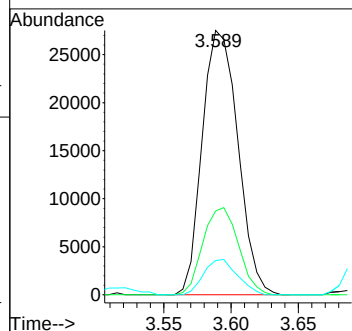
Tgt Ion: 67 Resp: 3190
Ion Ratio Lower Upper
67 100
69 36.5 2.3 62.3





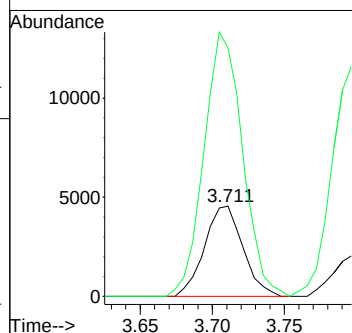
#6
DICHLORODIFLUOROMETHANE
Concen: 0.4827 PPBV
RT: 3.589 min Scan# 82
Delta R.T. 0.001 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

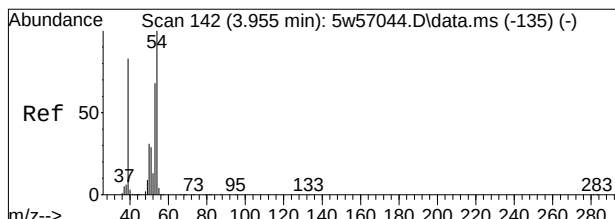
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.8	2.7	62.7
50	12.6	0.0	42.6



#10
CHLOROMETHANE
Concen: 0.6311 PPBV
RT: 3.711 min Scan# 102
Delta R.T. 0.006 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

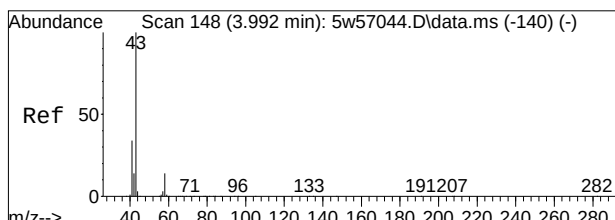
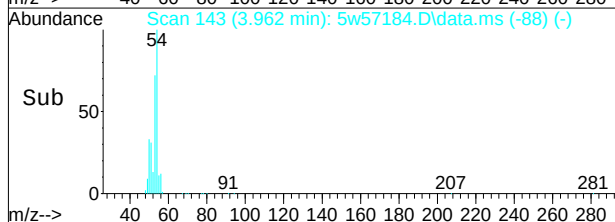
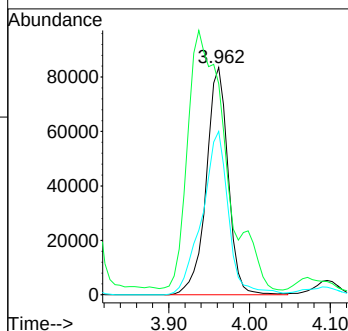
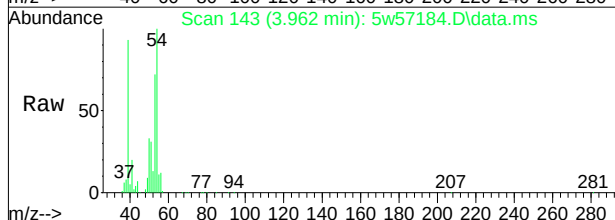
Tgt Ion	Ratio	Lower	Upper
52	100		
50	275.2	269.7	329.7





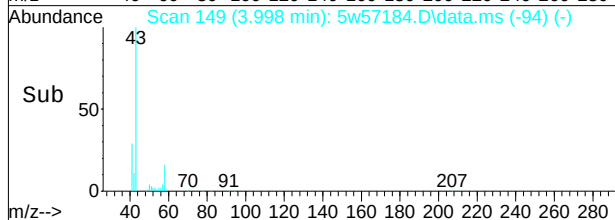
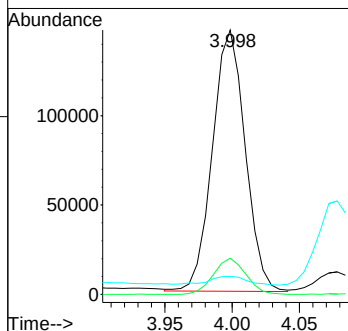
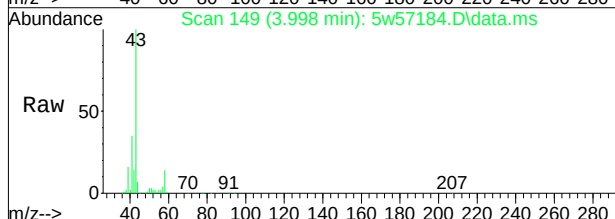
#12
1,3-BUTADIENE
Concen: 5.8480 PPBV
RT: 3.962 min Scan# 143
Delta R.T. 0.007 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

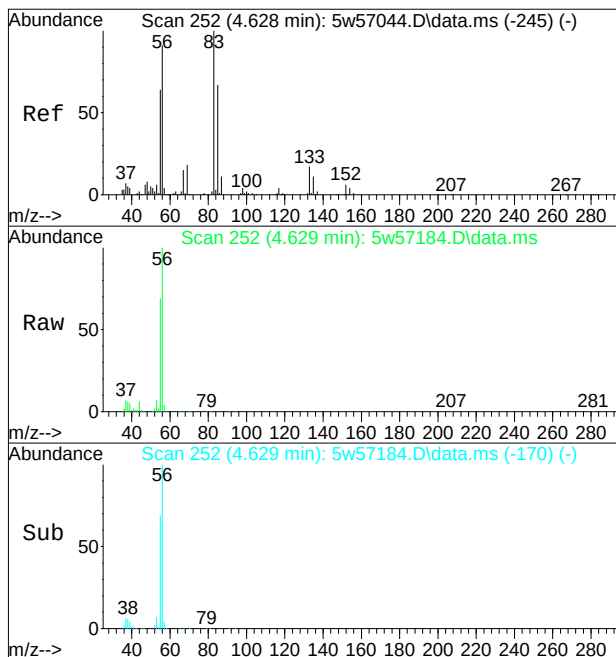
Tgt Ion: 54 Resp: 157314
Ion Ratio Lower Upper
54 100
39 0.0 73.3 133.3#
53 86.9 40.1 100.1



#13
n-BUTANE
Concen: 5.6598 PPBV
RT: 3.998 min Scan# 149
Delta R.T. 0.006 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

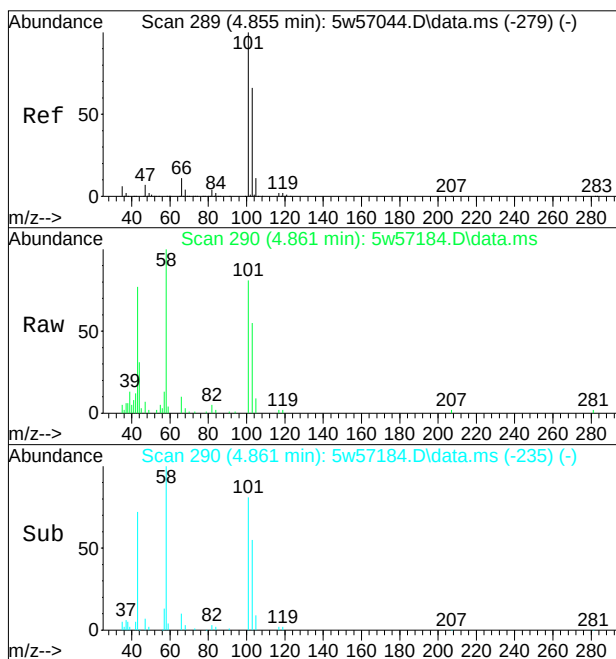
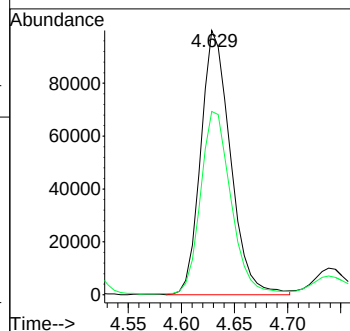
Tgt Ion: 43 Resp: 247907
Ion Ratio Lower Upper
43 100
58 13.7 0.0 43.8
44 3.8 0.0 35.5





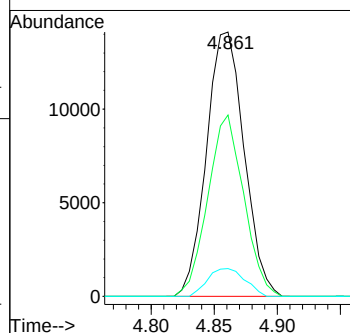
#18
ACROLEIN
Concen: 13.5402 PPBV
RT: 4.629 min Scan# 252
Delta R.T. 0.001 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

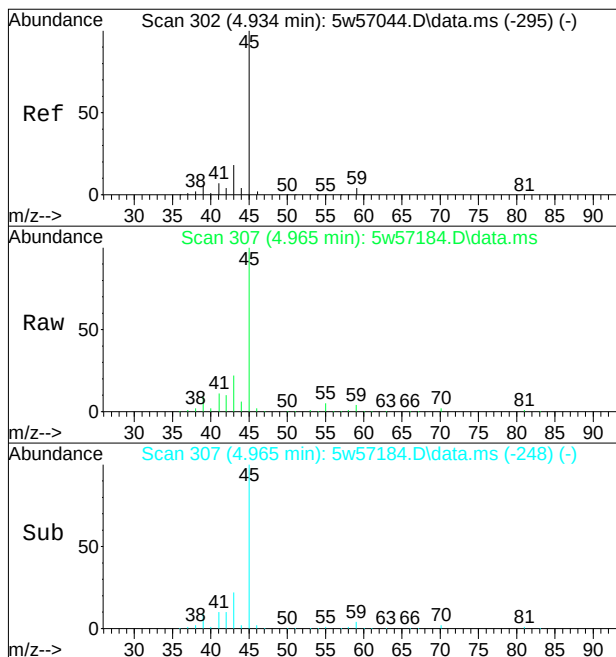
Tgt Ion	Ratio	Lower	Upper
56	100		
55	70.5	46.8	86.8



#21
TRICHLOROFLUOROMETHANE
Concen: 0.2834 PPBV
RT: 4.861 min Scan# 290
Delta R.T. 0.006 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

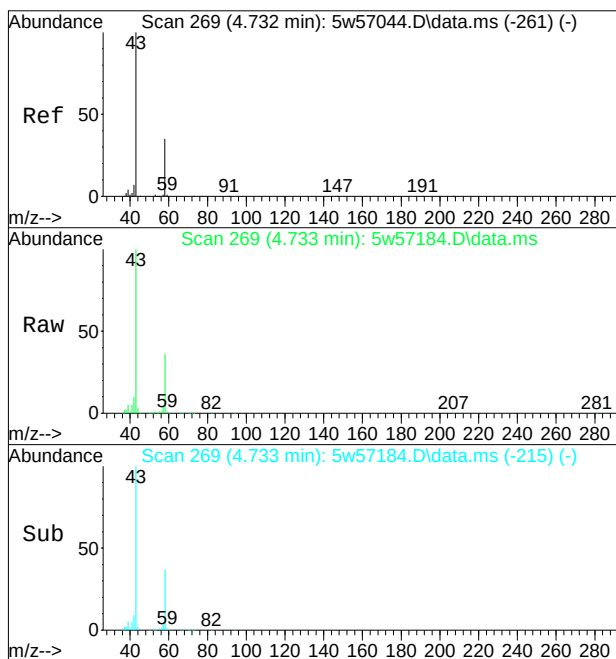
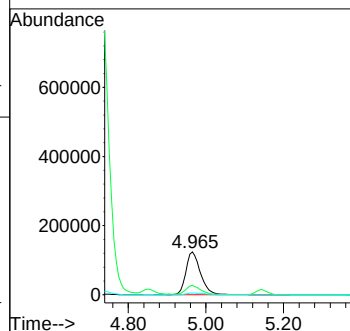
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.4	35.5	95.5
105	10.5	0.0	40.8





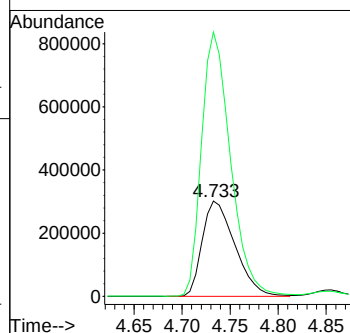
#22
ISOPROPYL ALCOHOL
Concen: 4.7276 PPBV
RT: 4.965 min Scan# 307
Delta R.T. 0.031 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

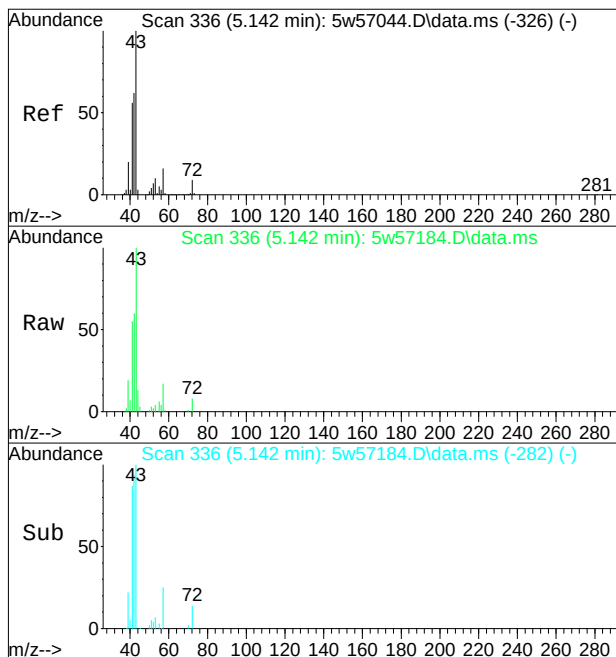
Tgt Ion	Ratio	Lower	Upper
45	100		
43	22.3	0.0	48.5
59	4.3	0.0	34.2



#23
ACETONE
Concen: 41.8202 PPBV
RT: 4.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

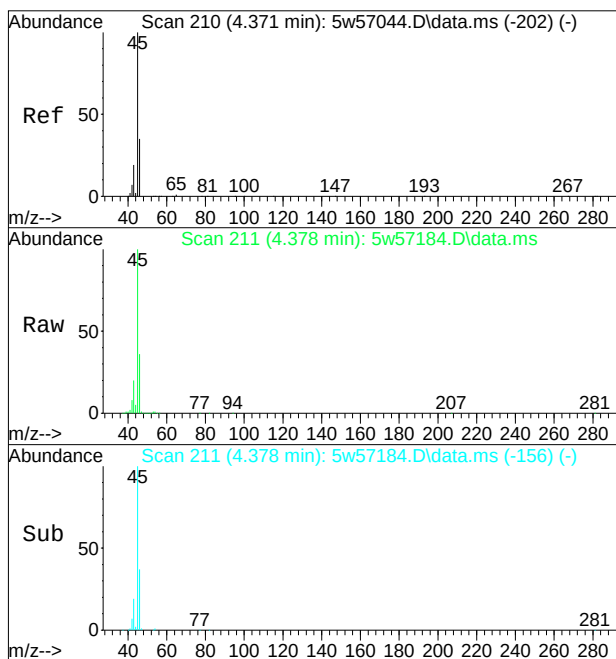
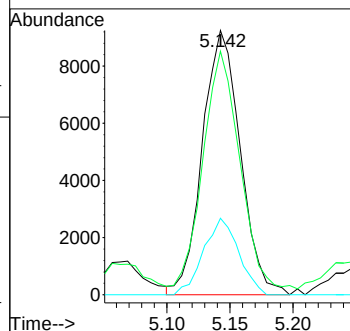
Tgt Ion	Ratio	Lower	Upper
58	100		
43	245.8	0.0	32.7#





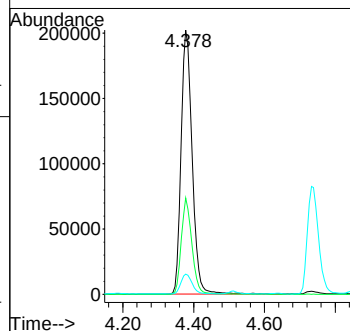
#24
PENTANE
Concen: 0.6206 PPBV
RT: 5.142 min Scan# 336
Delta R.T. 0.000 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

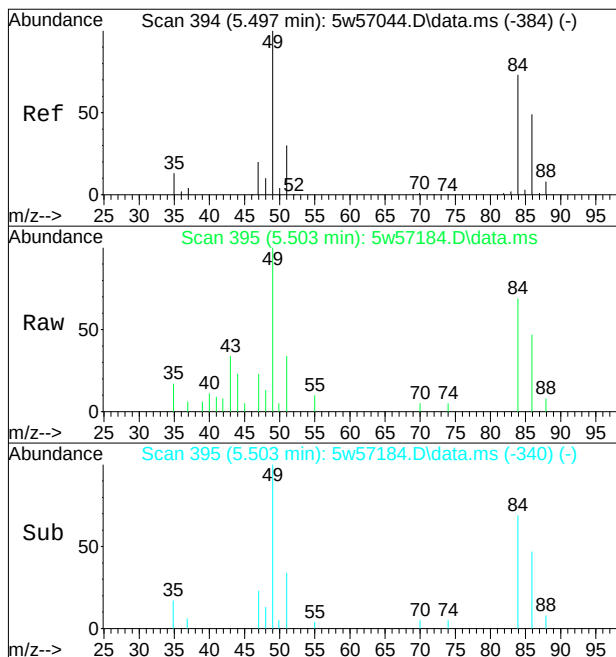
Tgt Ion: 42 Resp: 19331
Ion Ratio Lower Upper
42 100
41 86.7 62.9 122.9
57 26.8 0.0 57.4



#28
ETHANOL
Concen: 25.8331 PPBV
RT: 4.378 min Scan# 211
Delta R.T. 0.007 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

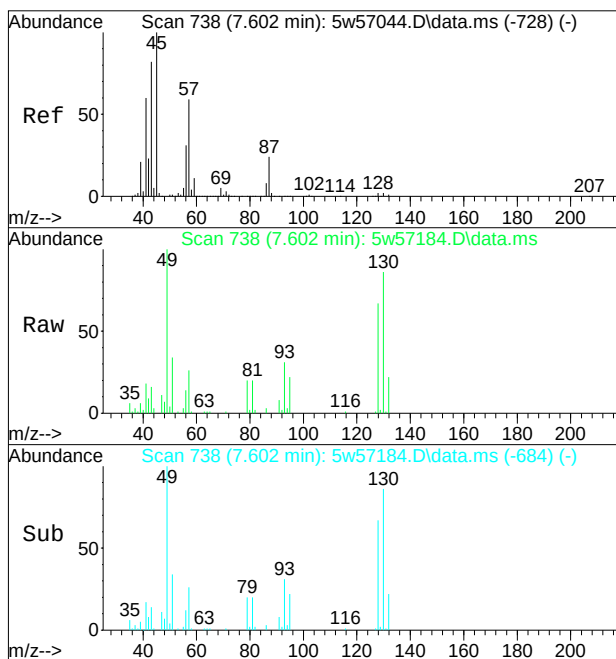
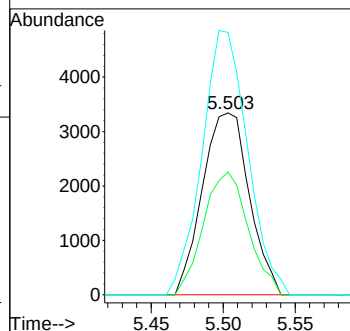
Tgt Ion: 45 Resp: 439277
Ion Ratio Lower Upper
45 100
46 35.2 5.4 65.4
42 7.6 0.0 37.7





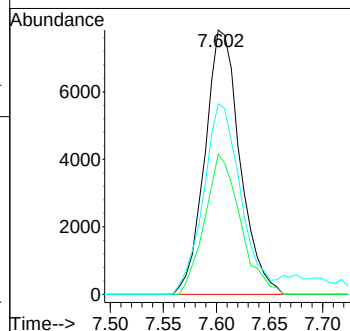
#31
METHYLENE CHLORIDE
Concen: 0.2355 PPBV
RT: 5.503 min Scan# 395
Delta R.T. 0.006 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

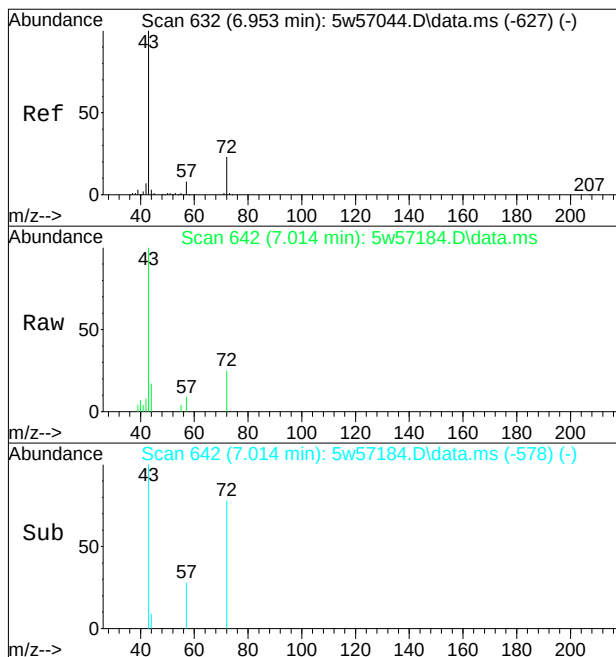
Tgt Ion: 84 Resp: 7569
Ion Ratio Lower Upper
84 100
86 64.4 36.1 96.1
49 141.6 106.2 166.2



#38
HEXANE
Concen: 0.3180 PPBV
RT: 7.602 min Scan# 738
Delta R.T. -0.000 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

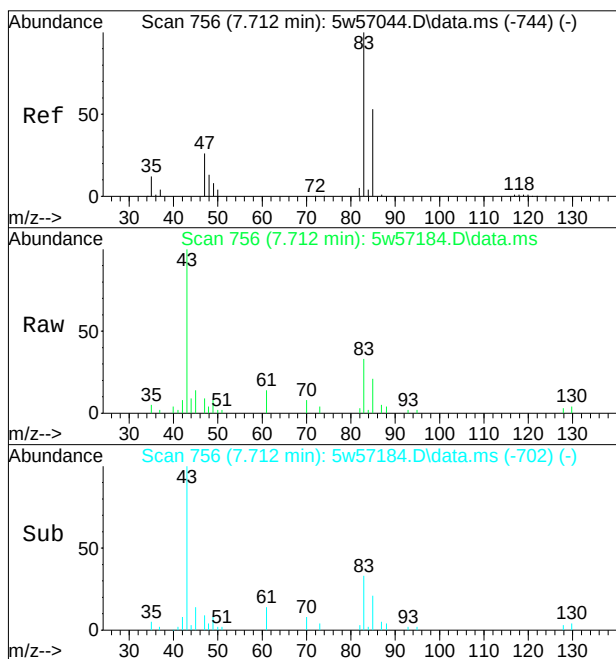
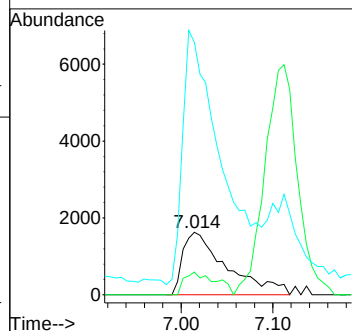
Tgt Ion: 57 Resp: 18001
Ion Ratio Lower Upper
57 100
56 53.7 25.5 85.5
41 87.9 78.7 138.7





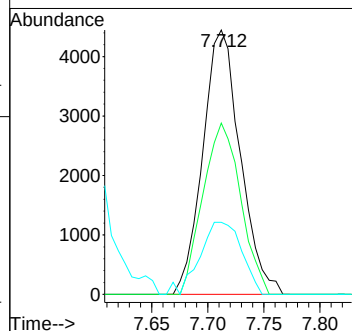
#41
METHYL ETHYL KETONE
Concen: 0.4085 PPBV
RT: 7.014 min Scan# 642
Delta R.T. 0.061 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

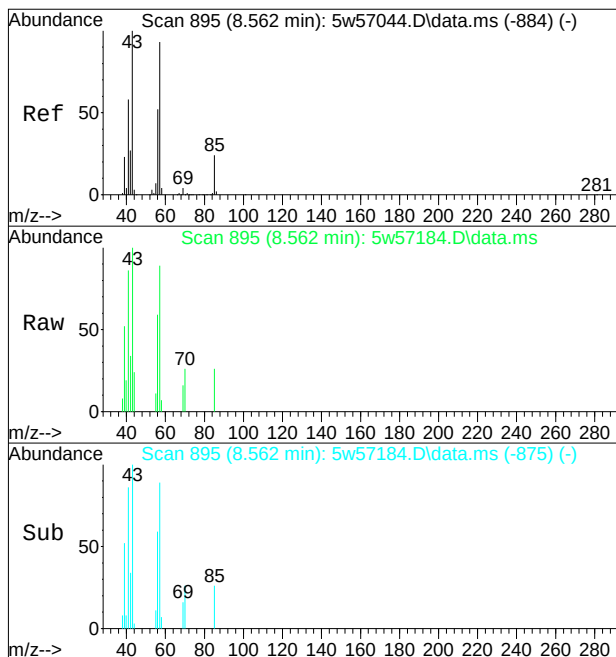
Tgt Ion: 72	Resp: 5443
Ion Ratio	Lower Upper
72 100	
57 36.4	3.9 63.9
43 403.5	401.3 461.3



#46
CHLOROFORM
Concen: 0.1350 PPBV
RT: 7.712 min Scan# 756
Delta R.T. -0.000 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

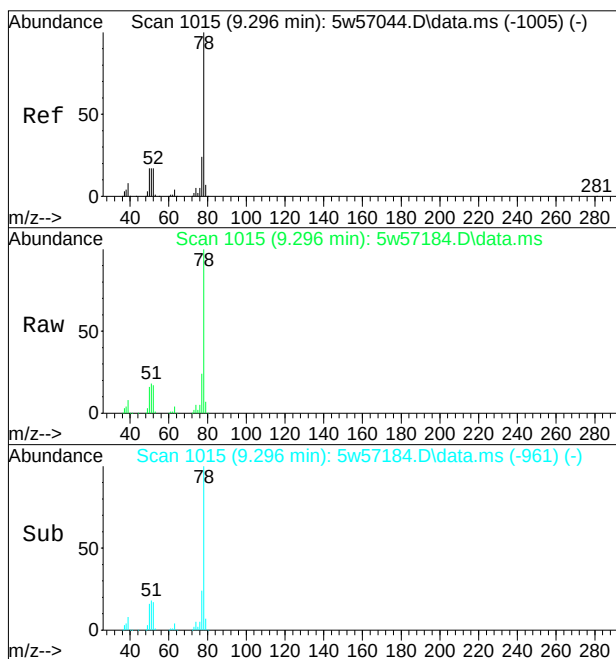
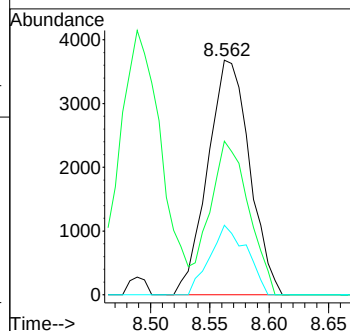
Tgt Ion: 83	Resp: 10341
Ion Ratio	Lower Upper
83 100	
85 65.2	37.0 97.0
47 30.5	0.0 56.2





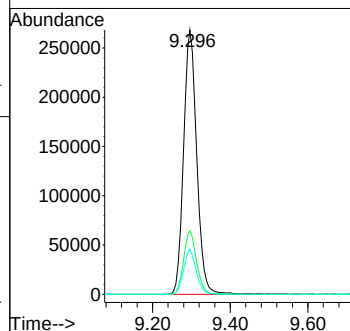
#47
2,4-DIMETHYLPENTANE
Concen: 0.1413 PPBV
RT: 8.562 min Scan# 895
Delta R.T. 0.000 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

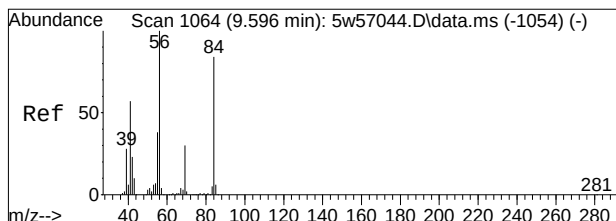
Tgt Ion: 57	Resp: 9015
Ion Ratio Lower Upper	
57 100	
56 61.0 26.5 86.5	
85 26.0 0.0 56.3	



#52
BENZENE
Concen: 5.7083 PPBV
RT: 9.296 min Scan# 1015
Delta R.T. 0.000 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

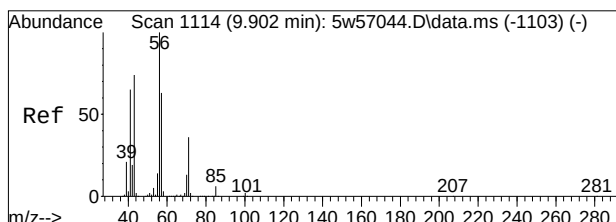
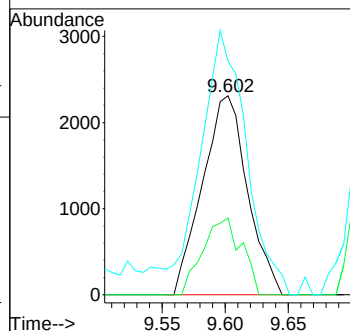
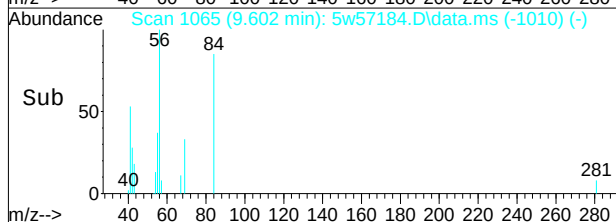
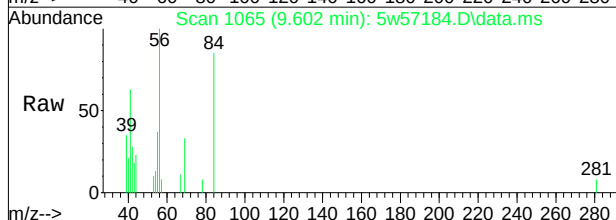
Tgt Ion: 78	Resp: 636610
Ion Ratio Lower Upper	
78 100	
77 23.7 0.0 53.7	
52 16.4 0.0 46.4	





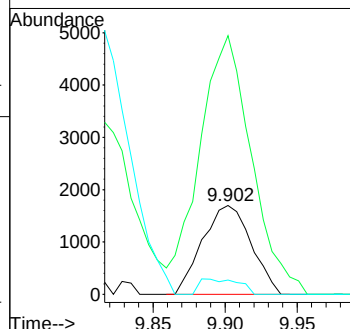
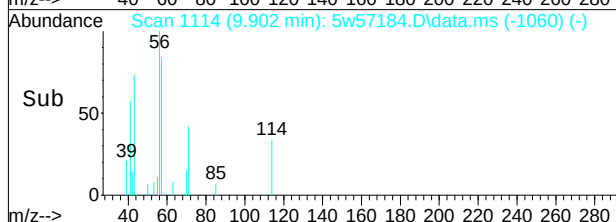
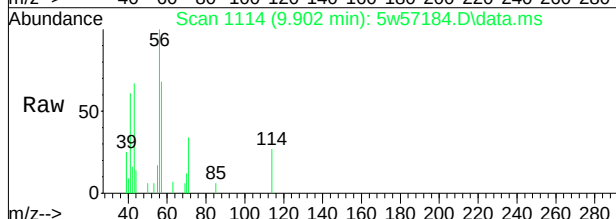
#53
CYCLOHEXANE
Concen: 0.1260 PPBV
RT: 9.602 min Scan# 1065
Delta R.T. 0.006 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

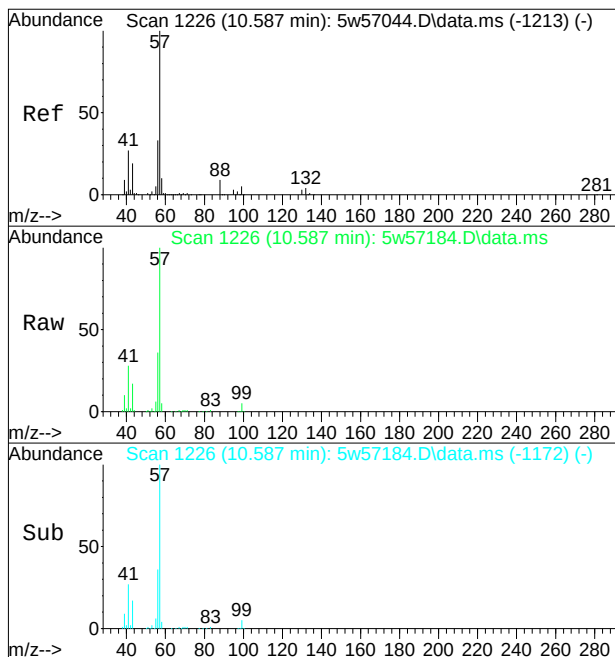
Tgt Ion: 84 Resp: 5720
Ion Ratio Lower Upper
84 100
69 33.2 5.9 65.9
56 135.2 90.4 150.4



#54
2,3-DIMETHYLPENTANE
Concen: 0.1766 PPBV
RT: 9.902 min Scan# 1114
Delta R.T. -0.000 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

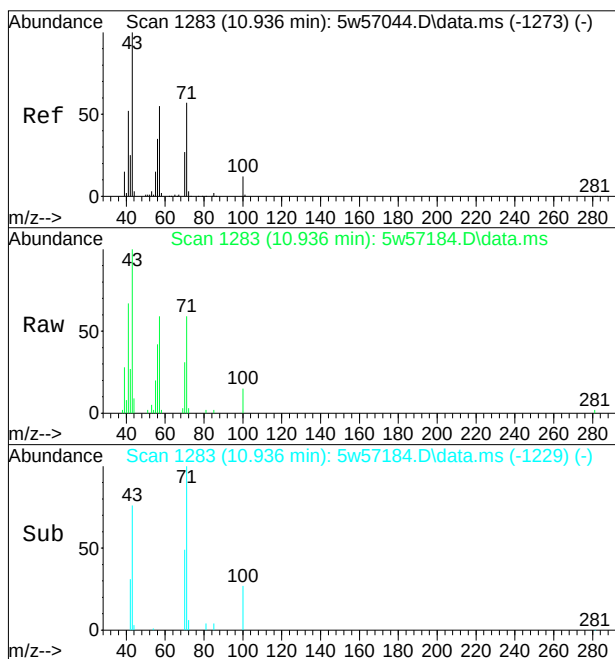
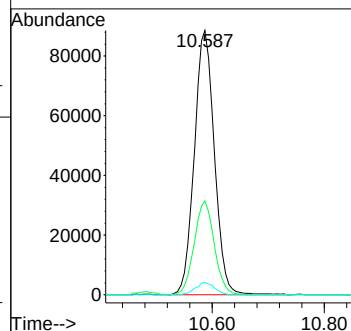
Tgt Ion: 71 Resp: 3996
Ion Ratio Lower Upper
71 100
56 310.6 253.7 313.7
85 14.1 0.0 45.8





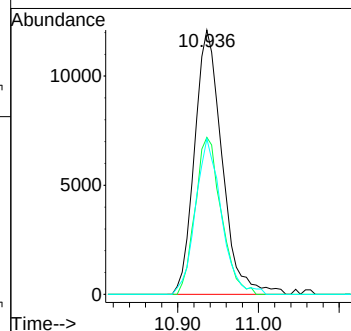
#60
2,2,4-TRIMETHYLPENTANE
Concen: 1.2536 PPBV
RT: 10.587 min Scan# 1226
Delta R.T. 0.000 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

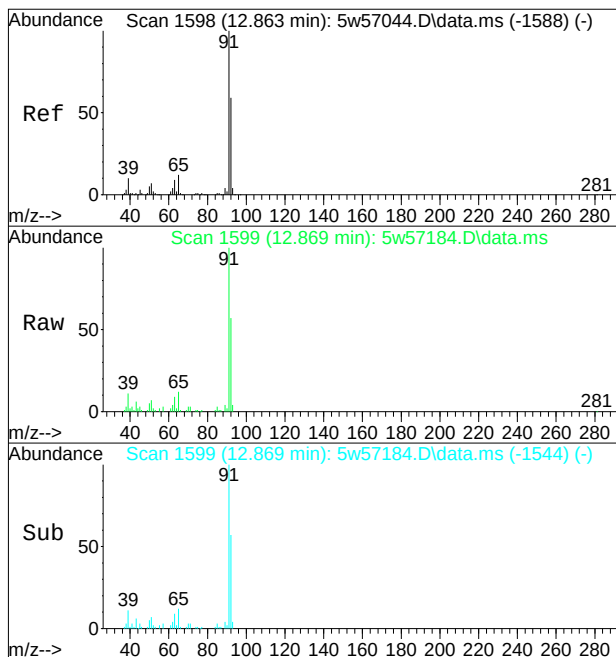
Tgt Ion: 57	Resp: 219865
Ion Ratio	Lower Upper
57 100	
56 35.6	2.6 62.6
99 4.5	0.0 38.0



#62
HEPTANE
Concen: 0.4798 PPBV
RT: 10.936 min Scan# 1283
Delta R.T. -0.000 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

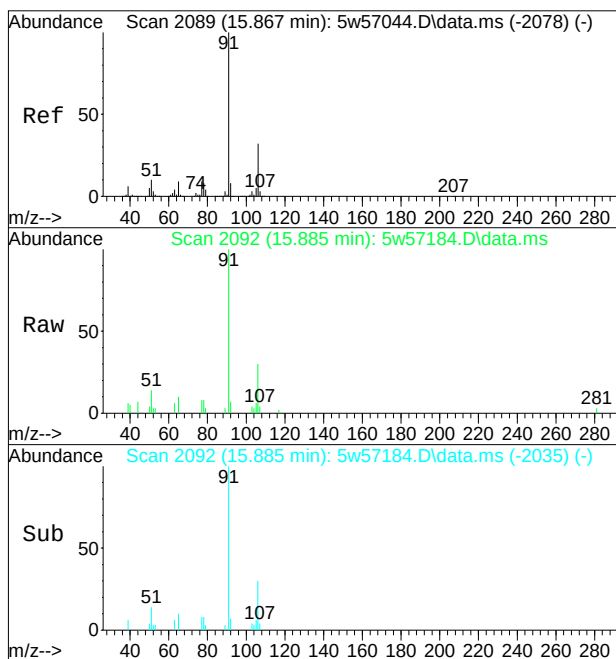
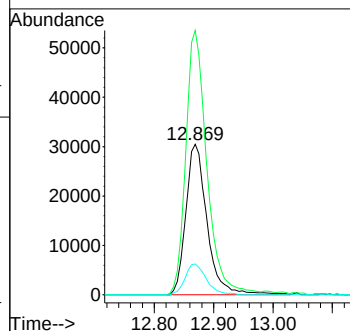
Tgt Ion: 43	Resp: 28713
Ion Ratio	Lower Upper
43 100	
71 56.2	27.1 87.1
57 55.6	25.7 85.7





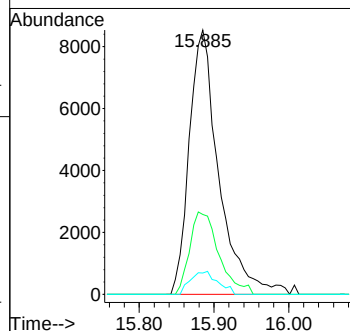
#66
TOLUENE
Concen: 0.9213 PPBV
RT: 12.869 min Scan# 1599
Delta R.T. 0.006 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

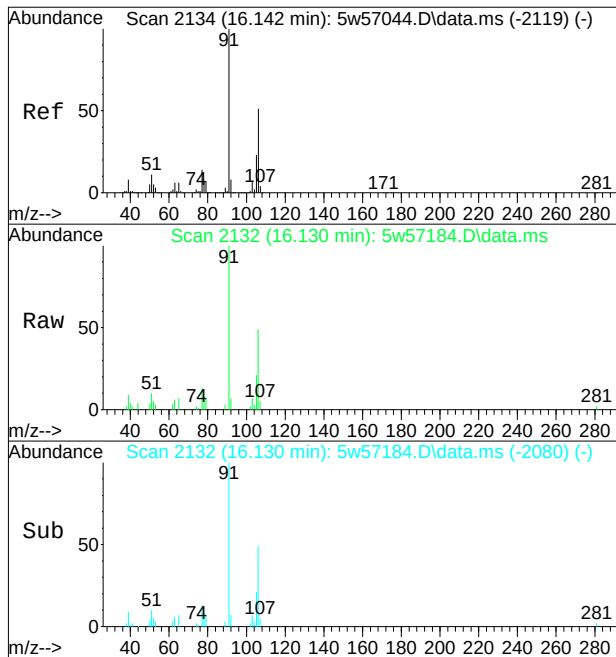
Tgt Ion	Ratio	Lower	Upper
92	100		
91	177.1	140.2	200.2
65	20.6	0.0	52.3



#79
ETHYLBENZENE
Concen: 0.1359 PPBV
RT: 15.885 min Scan# 2092
Delta R.T. 0.018 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

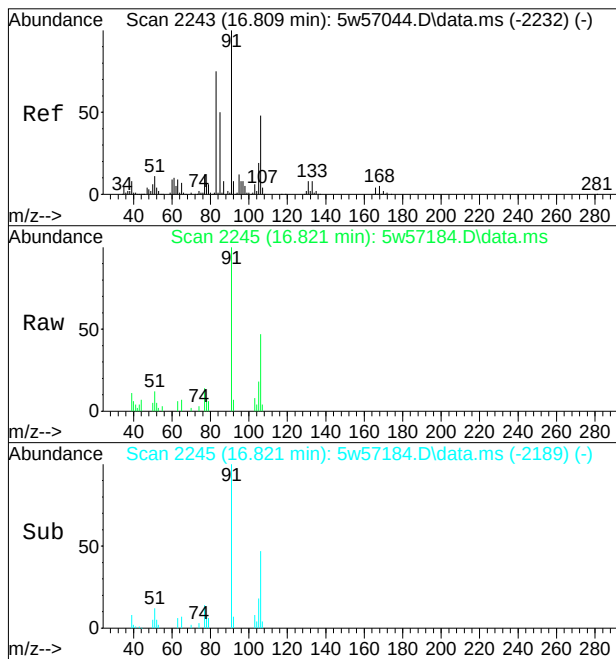
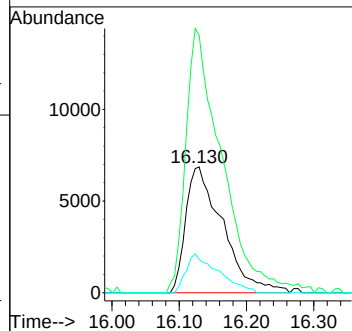
Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.7	2.0	62.0
77	8.0	0.0	38.6





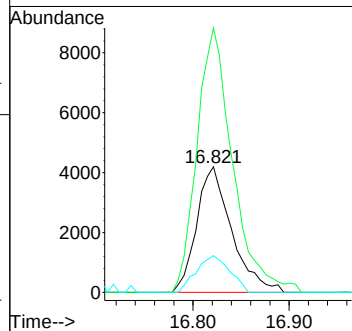
#80
m,p-XYLENE
Concen: 0.3785 PPBV
RT: 16.130 min Scan# 2132
Delta R.T. -0.012 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

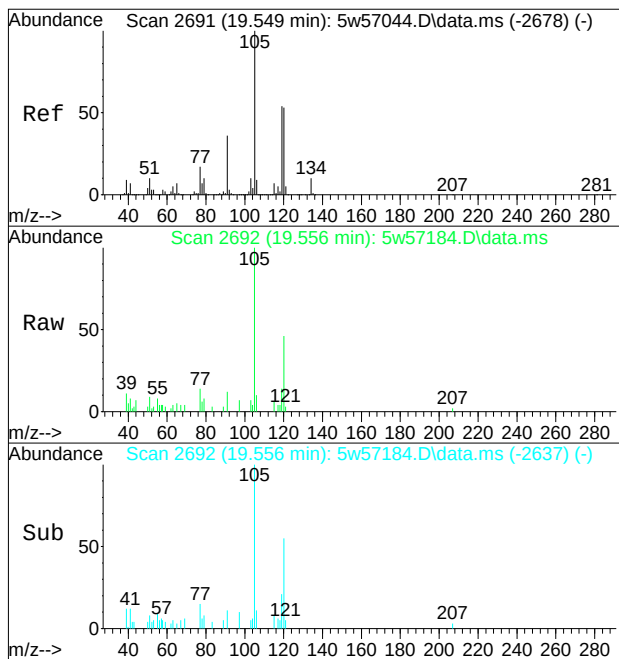
Tgt	Ion:106	Resp:	26243
Ion	Ratio	Lower	Upper
106	100		
91	204.6	166.2	226.2
77	26.5	0.0	56.8



#81
o-XYLENE
Concen: 0.1601 PPBV
RT: 16.821 min Scan# 2245
Delta R.T. 0.012 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

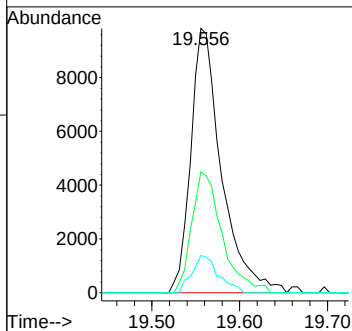
Tgt	Ion:106	Resp:	10640
Ion	Ratio	Lower	Upper
106	100		
91	213.9	177.8	237.8
77	27.8	0.0	56.1





#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.1444 PPBV
RT: 19.556 min Scan# 2692
Delta R.T. 0.007 min
Lab File: 5w57184.D
Acq: 5 Mar 2025 2:54 am

Tgt	Ion:105	Resp:	23964
Ion	Ratio	Lower	Upper
105	100		
120	45.2	27.4	87.4
119	12.2	77.3	137.3#



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13240.D
Acq On : 7 Mar 2025 2:29 am
Operator : williamc
Sample : je5976-9 Inst : MS7W
Misc : MS89870,v7w465,100,,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 08 06:31:56 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

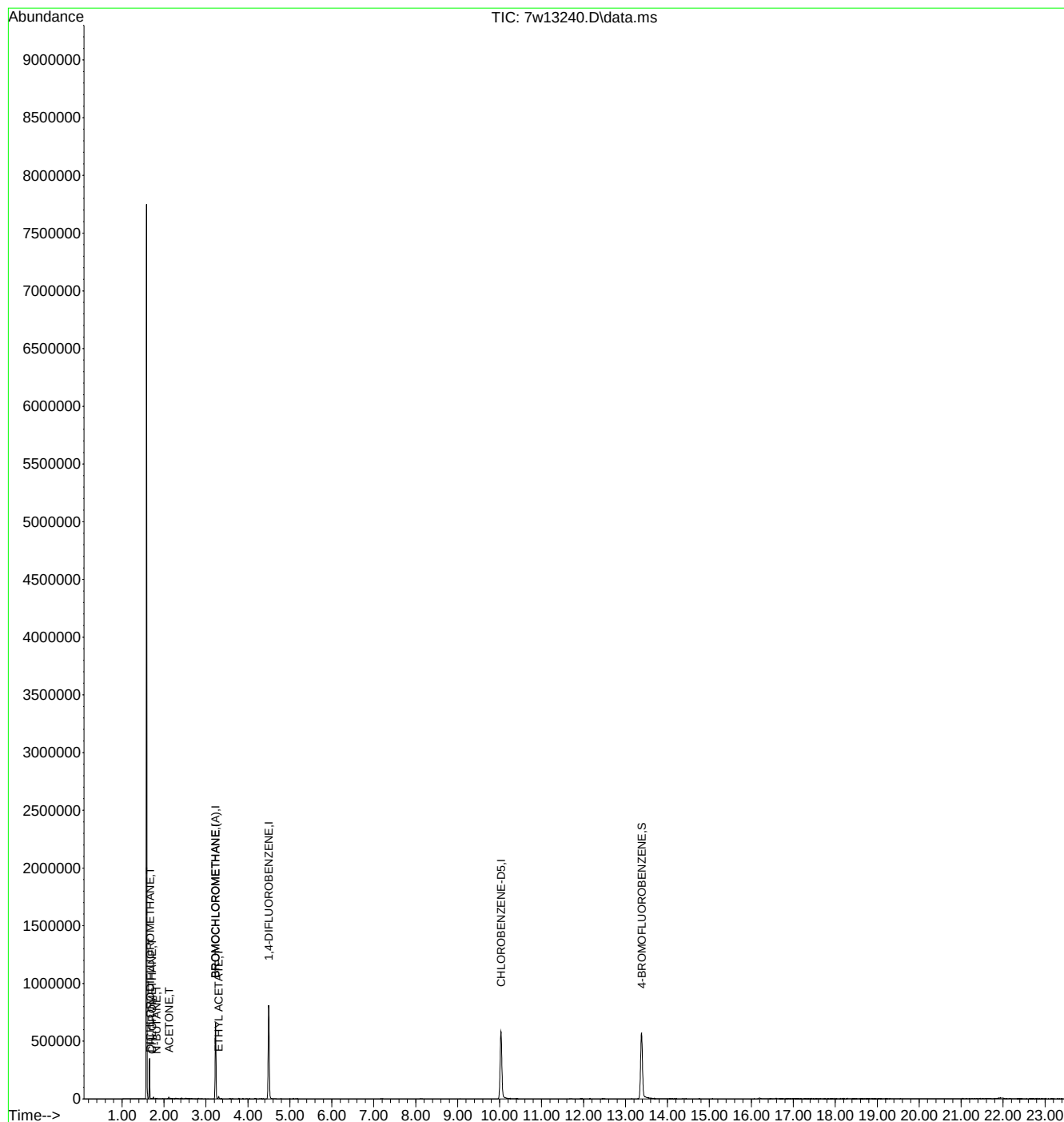
Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	135908	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.495	114	654690	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	599945	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	135908	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.382	95	409431	9.41	PPBV	0.00
Target Compounds						
					Qvalue	
6) DICHLORODIFLUOROMETHANE	1.669	85	3268	0.0964	PPBV #	91
10) CHLOROMETHANE	1.711	52	414	0.1177	PPBV	94
13) N-BUTANE	1.827	43	1714	0.0972	PPBV #	89
23) ACETONE	2.116	58	2604	0.3298	PPBV	60
44) ETHYL ACETATE	3.302	61	2583	0.6023	PPBV #	1

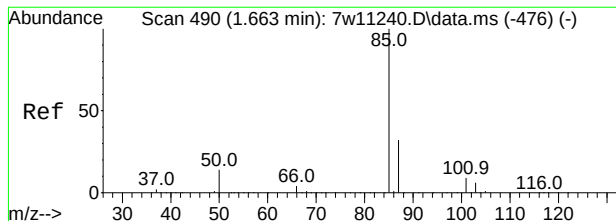
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13240.D
Acq On : 7 Mar 2025 2:29 am
Operator : williamc
Sample : je5976-9 Inst : MS7W
Misc : MS89870,v7w465,100,,,1
ALS Vial : 9 Sample Multiplier: 1

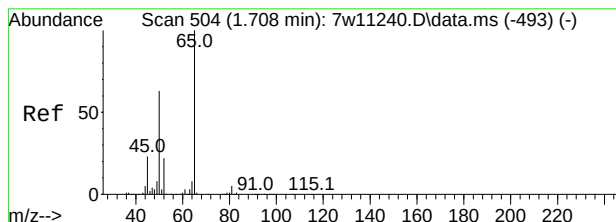
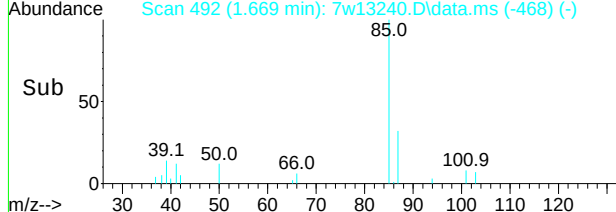
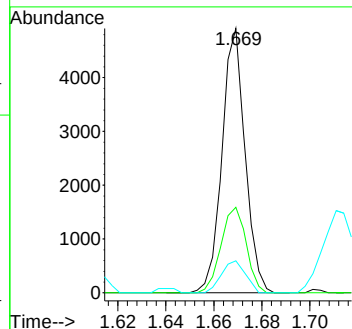
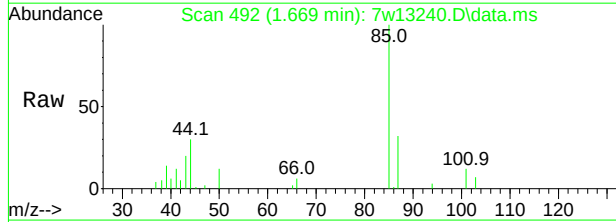
Quant Time: Mar 08 06:31:56 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration





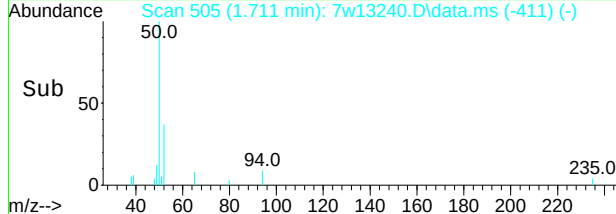
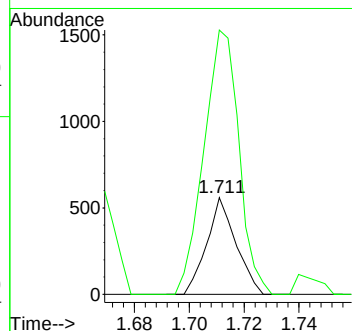
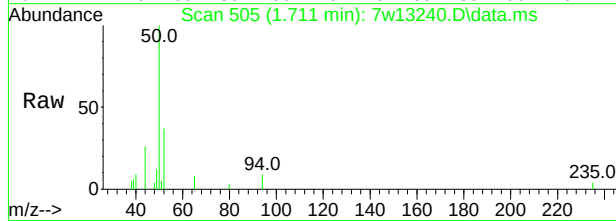
#6
 DICHLORODIFLUOROMETHANE
 Concen: 0.0964 PPBV
 RT: 1.669 min Scan# 492
 Delta R.T. 0.006 min
 Lab File: 7w13240.D
 Acq: 7 Mar 2025 2:29 am

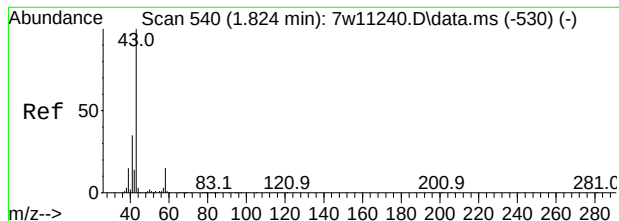
Tgt Ion: 85 Resp: 3268
 Ion Ratio Lower Upper
 85 100
 87 35.3 22.5 41.7
 50 12.6 13.8 25.6#



#10
 CHLOROMETHANE
 Concen: 0.1177 PPBV
 RT: 1.711 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: 7w13240.D
 Acq: 7 Mar 2025 2:29 am

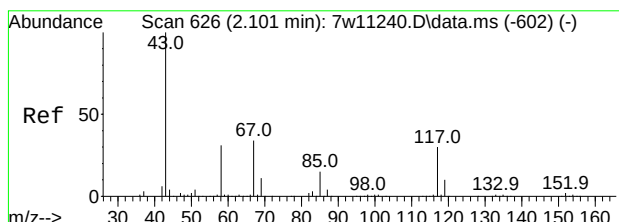
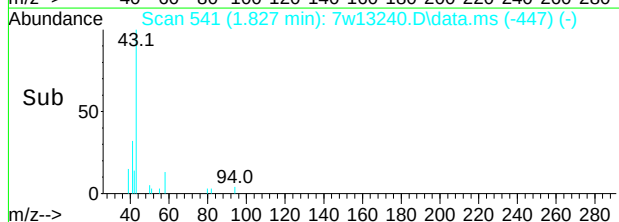
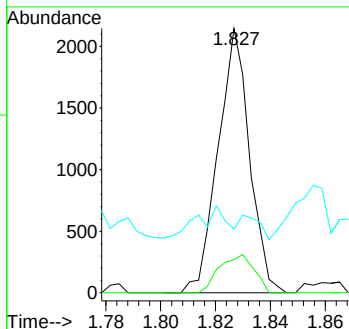
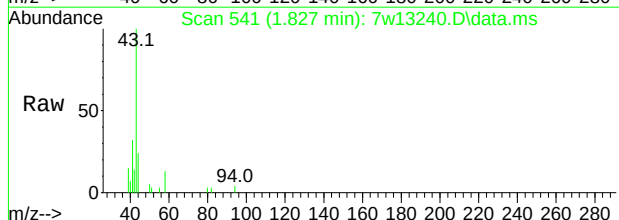
Tgt Ion: 52 Resp: 414
 Ion Ratio Lower Upper
 52 100
 50 327.3 220.1 408.8





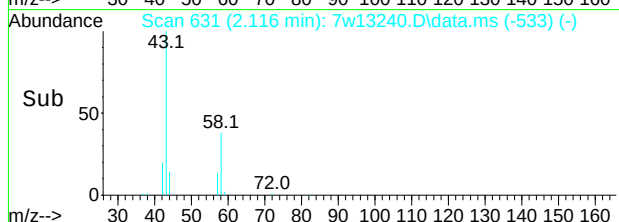
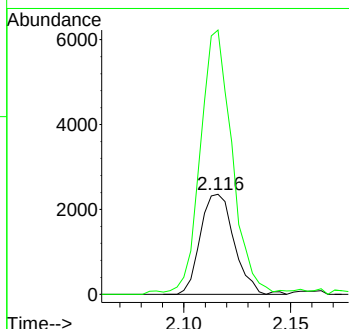
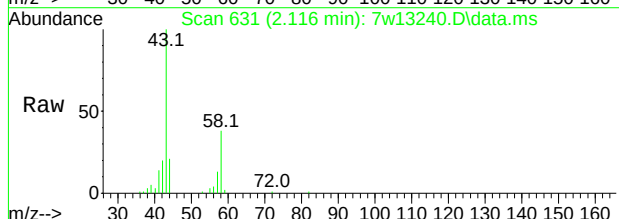
#13
N-BUTANE
Concen: 0.0972 PPBV
RT: 1.827 min Scan# 541
Delta R.T. 0.003 min
Lab File: 7w13240.D
Acq: 7 Mar 2025 2:29 am

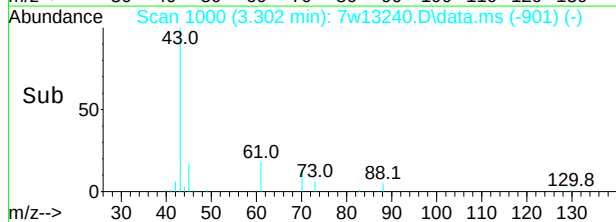
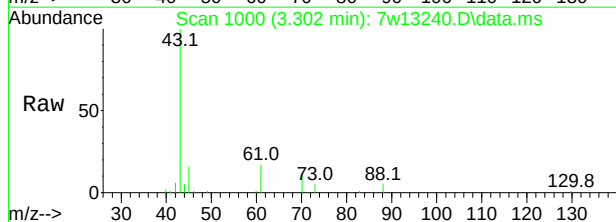
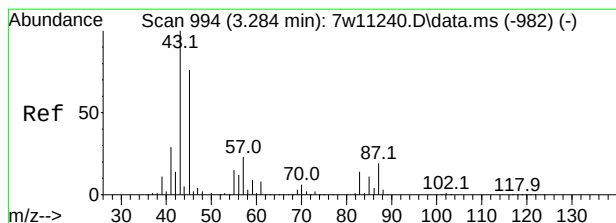
Tgt	Ion	43	Resp:	1714
	Ratio	100	Lower	Upper
	58	15.9	10.4	19.2
	44	17.9	3.0	5.6#



#23
ACETONE
Concen: 0.3298 PPBV
RT: 2.116 min Scan# 631
Delta R.T. 0.015 min
Lab File: 7w13240.D
Acq: 7 Mar 2025 2:29 am

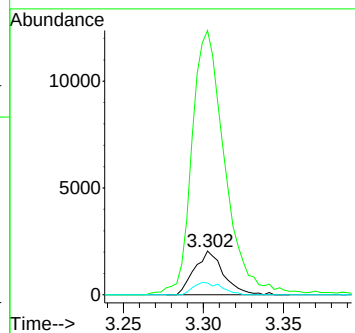
Tgt	Ion	58	Resp:	2604
	Ratio	100	Lower	Upper
	43	250.2	234.4	435.2





#44
ETHYL ACETATE
Concen: 0.6023 PPBV
RT: 3.302 min Scan# 1000
Delta R.T. 0.018 min
Lab File: 7w13240.D
Acq: 7 Mar 2025 2:29 am

Tgt Ion	Ratio	Lower	Upper
61	100		
43	695.7	1005.1	1866.5#
88	27.6	29.3	54.5#



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13241.D
Acq On : 7 Mar 2025 3:13 am
Operator : williamc
Sample : je5976-10 Inst : MS7W
Misc : MS89870,v7w465,400,,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 08 06:32:22 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

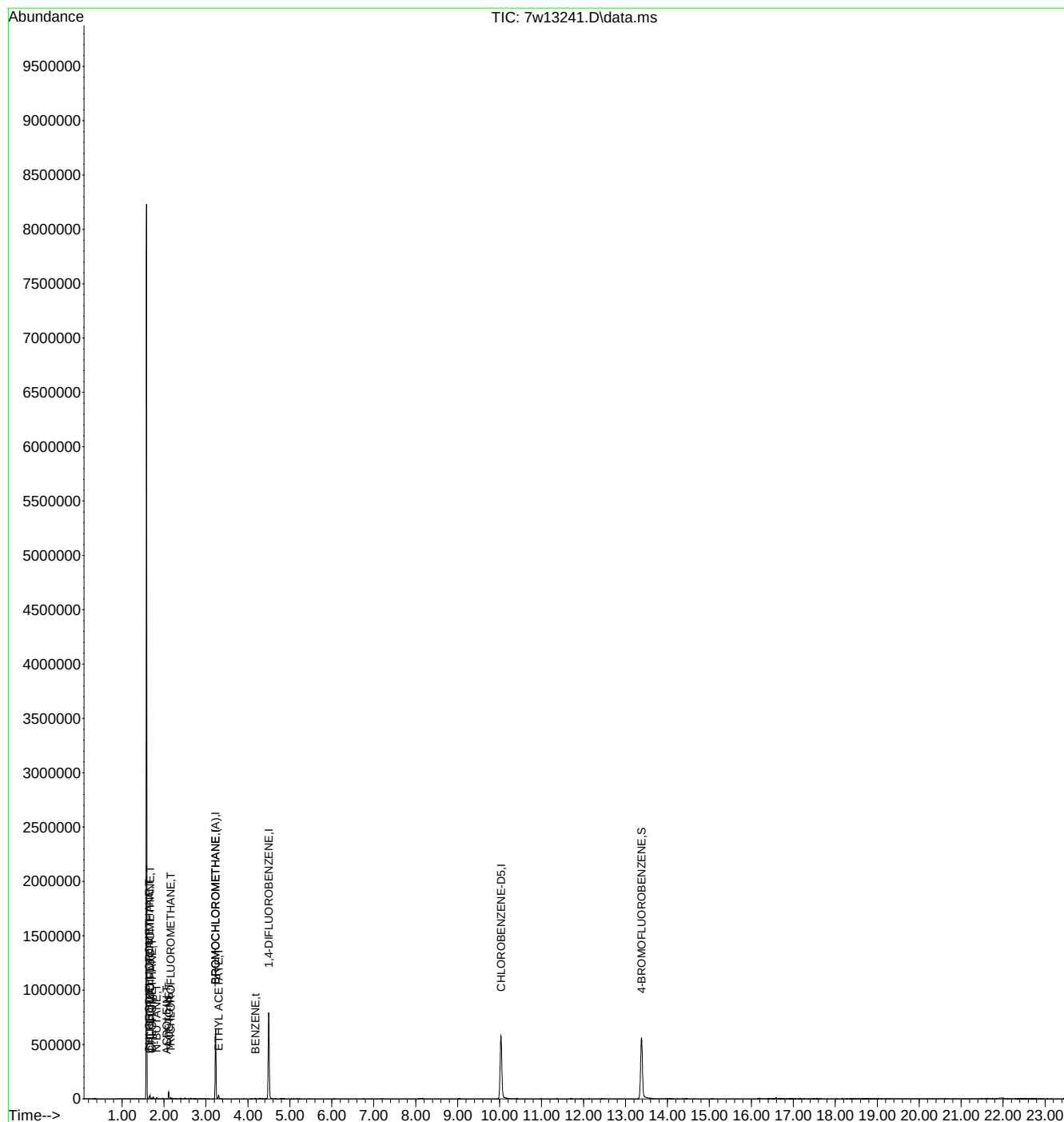
Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	133255	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.496	114	641103	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	589082	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	133255	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.379	95	399305	9.34	PPBV	0.00
Target Compounds						
					Qvalue	
4) CHLORODIFLUOROMETHANE	1.640	67	550	0.1707	PPBV #	80
6) DICHLORODIFLUOROMETHANE	1.666	85	11237	0.3382	PPBV #	93
10) CHLOROMETHANE	1.711	52	1513	0.4387	PPBV	96
13) N-BUTANE	1.827	43	4590	0.2656	PPBV #	93
18) ACROLEIN	2.065	56	561	0.0997	PPBV	87
21) TRICHLOROFLUOROMETHANE	2.161	101	5035	0.1721	PPBV	98
23) ACETONE	2.113	58	15649	2.0213	PPBV	55
44) ETHYL ACETATE	3.303	61	4091	0.9729	PPBV #	1
51) BENZENE	4.177	78	3624	0.1018	PPBV	96

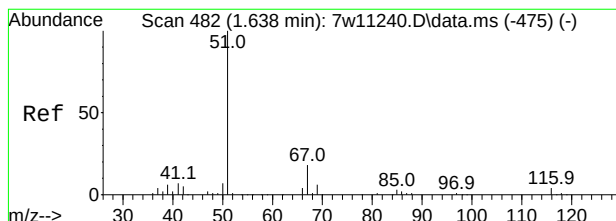
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

```
Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\7W465\  
Data File : 7w13241.D  
Acq On    : 7 Mar 2025    3:13 am  
Operator  : williamc  
Sample    : je5976-10          Inst      : MS7W  
Misc      : MS89870,7W465,400,,,,,1  
ALS Vial  : 10      Sample Multiplier: 1
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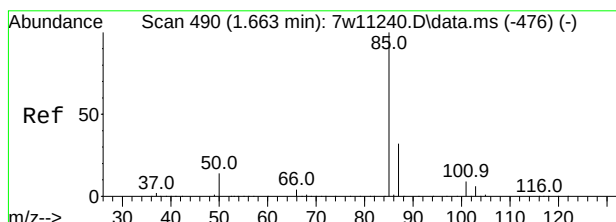
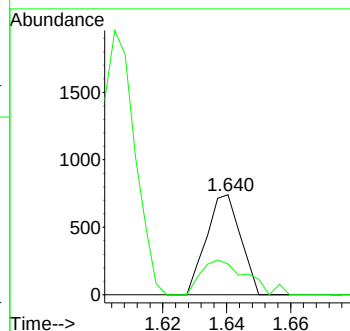
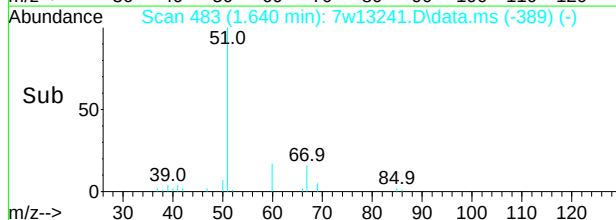
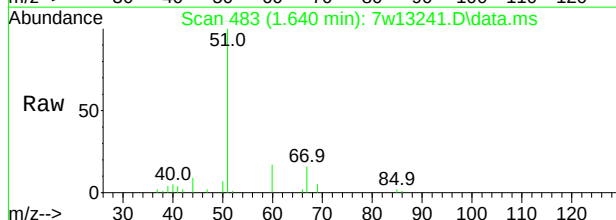
Quant Time: Mar 08 06:32:22 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration





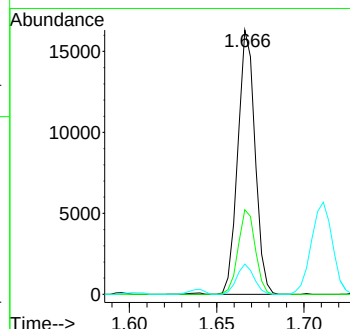
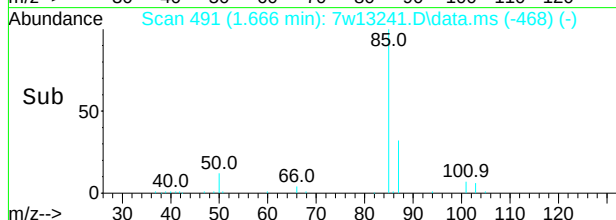
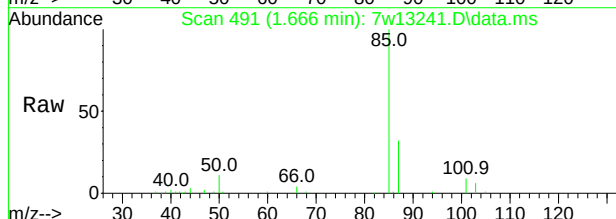
#4
 CHLORODIFLUOROMETHANE
 Concen: 0.1707 PPBV
 RT: 1.640 min Scan# 483
 Delta R.T. 0.002 min
 Lab File: 7w13241.D
 Acq: 7 Mar 2025 3:13 am

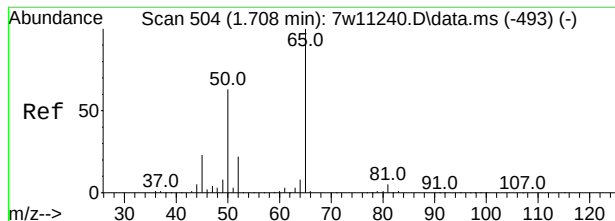
Tgt Ion: 67 Resp: 550
 Ion Ratio Lower Upper
 67 100
 69 46.7 24.4 45.4#



#6
 DICHLORODIFLUOROMETHANE
 Concen: 0.3382 PPBV
 RT: 1.666 min Scan# 491
 Delta R.T. 0.003 min
 Lab File: 7w13241.D
 Acq: 7 Mar 2025 3:13 am

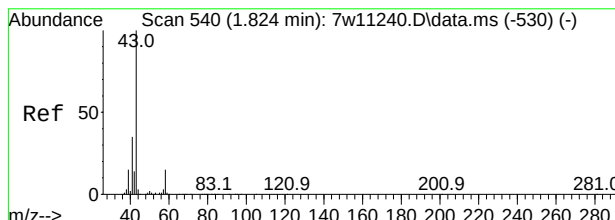
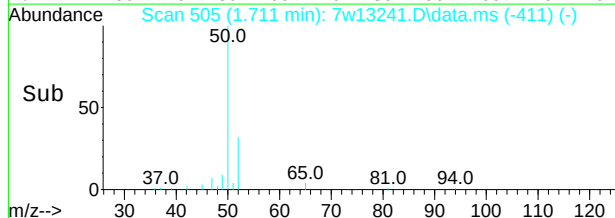
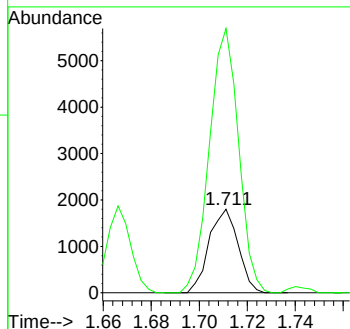
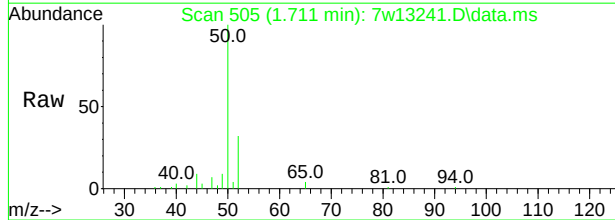
Tgt Ion: 85 Resp: 11237
 Ion Ratio Lower Upper
 85 100
 87 31.6 22.5 41.7
 50 11.4 13.8 25.6#





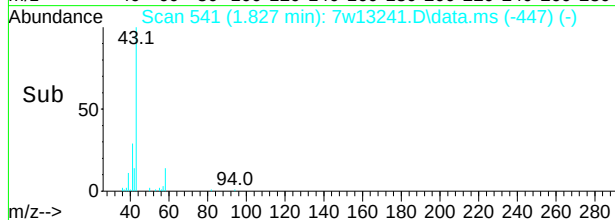
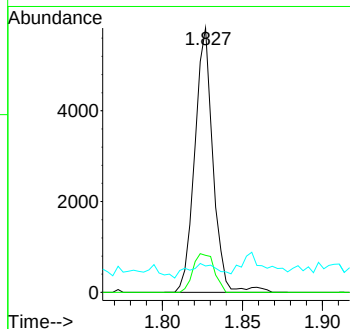
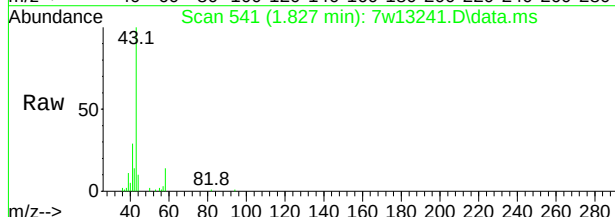
#10
CHLOROMETHANE
Concen: 0.4387 PPBV
RT: 1.711 min Scan# 505
Delta R.T. 0.003 min
Lab File: 7w13241.D
Acq: 7 Mar 2025 3:13 am

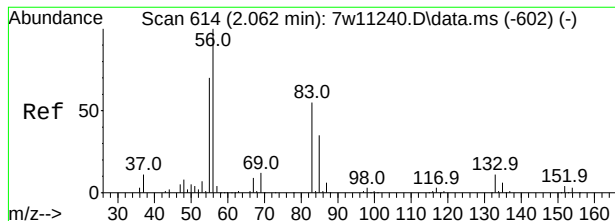
Tgt Ion: 52 Resp: 1513
Ion Ratio Lower Upper
52 100
50 321.7 220.1 408.8



#13
N-BUTANE
Concen: 0.2656 PPBV
RT: 1.827 min Scan# 541
Delta R.T. 0.003 min
Lab File: 7w13241.D
Acq: 7 Mar 2025 3:13 am

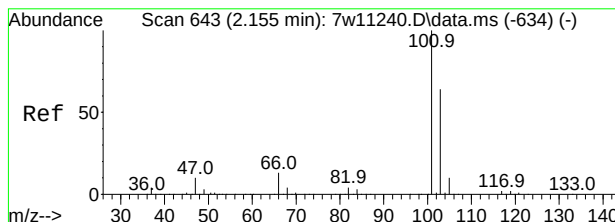
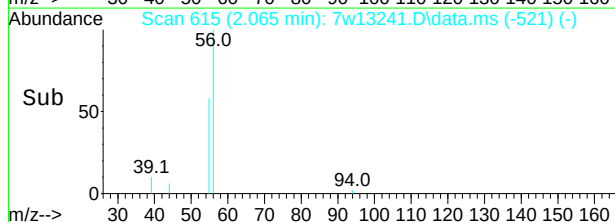
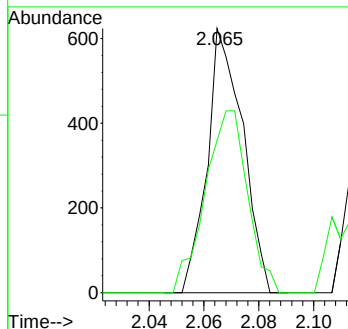
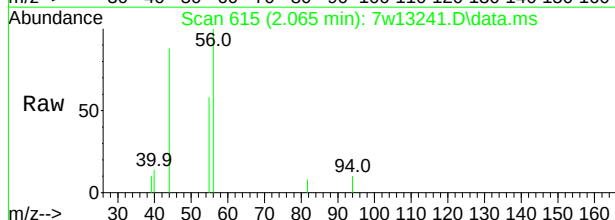
Tgt Ion: 43 Resp: 4590
Ion Ratio Lower Upper
43 100
58 17.1 10.4 19.2
44 9.0 3.0 5.6#





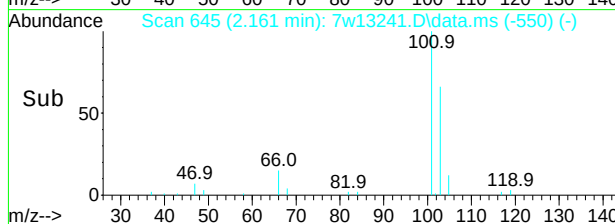
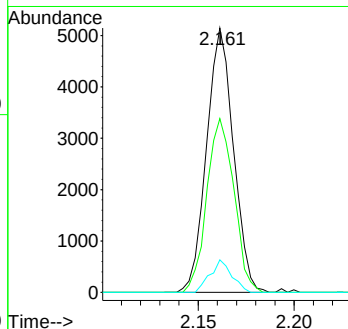
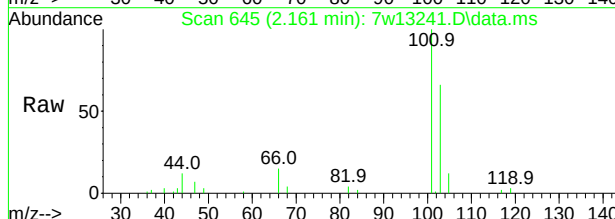
#18
ACROLEIN
Concen: 0.0997 PPBV
RT: 2.065 min Scan# 615
Delta R.T. 0.003 min
Lab File: 7w13241.D
Acq: 7 Mar 2025 3:13 am

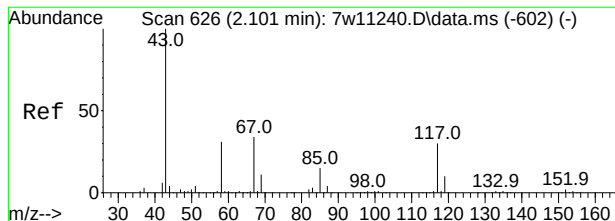
Tgt Ion	Ratio	Lower	Upper
56	100		
55	82.5	50.3	93.3



#21
TRICHLOROFLUOROMETHANE
Concen: 0.1721 PPBV
RT: 2.161 min Scan# 645
Delta R.T. 0.006 min
Lab File: 7w13241.D
Acq: 7 Mar 2025 3:13 am

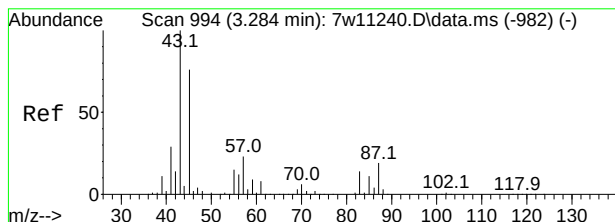
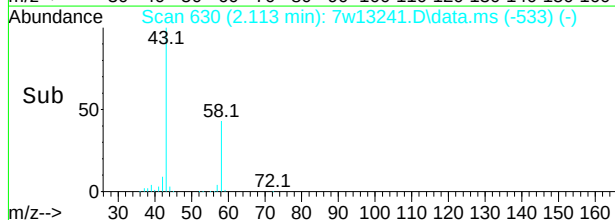
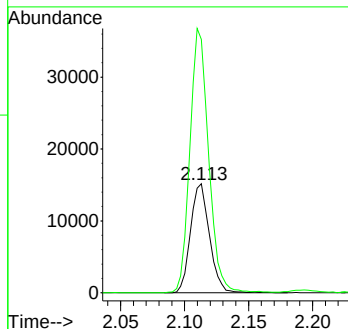
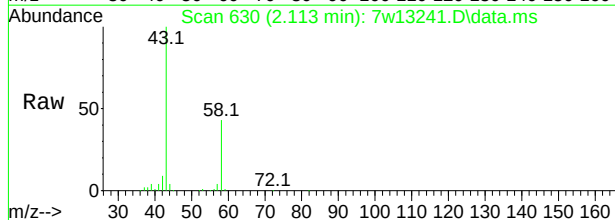
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.1	44.9	83.5
105	9.9	7.3	13.5





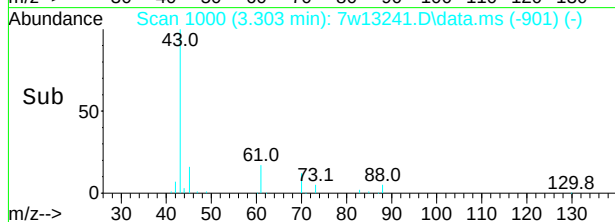
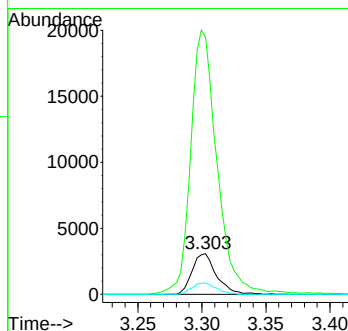
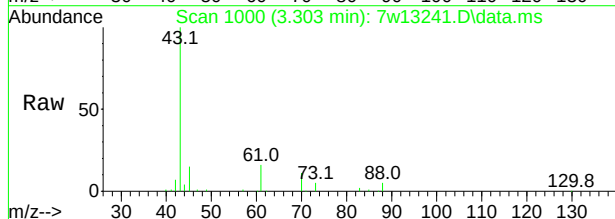
#23
ACETONE
Concen: 2.0213 PPBV
RT: 2.113 min Scan# 630
Delta R.T. 0.012 min
Lab File: 7w13241.D
Acq: 7 Mar 2025 3:13 am

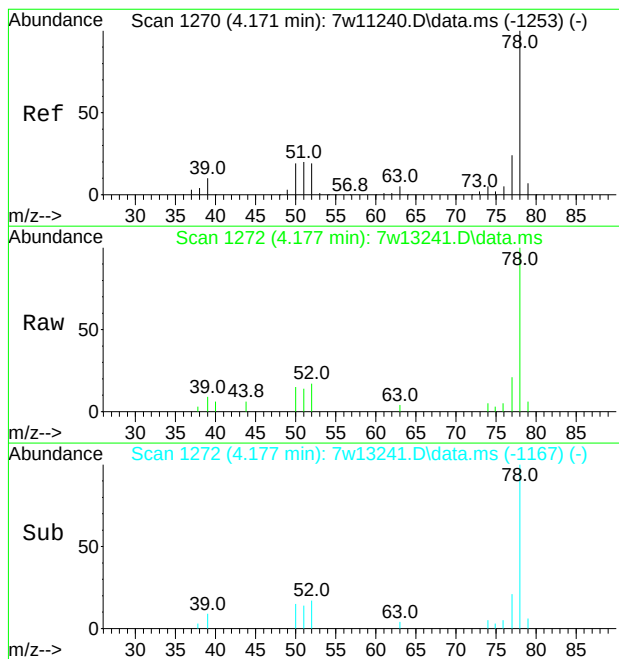
Tgt Ion: 58 Resp: 15649
Ion Ratio Lower Upper
58 100
43 239.4 234.4 435.2



#44
ETHYL ACETATE
Concen: 0.9729 PPBV
RT: 3.303 min Scan# 1000
Delta R.T. 0.019 min
Lab File: 7w13241.D
Acq: 7 Mar 2025 3:13 am

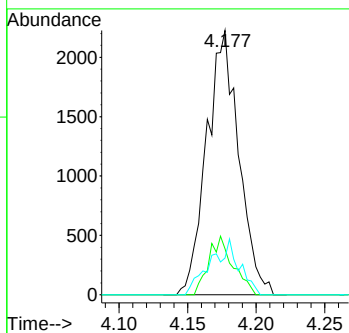
Tgt Ion: 61 Resp: 4091
Ion Ratio Lower Upper
61 100
43 707.2 1005.1 1866.5#
88 28.1 29.3 54.5#





#51
BENZENE
Concen: 0.1018 PPBV
RT: 4.177 min Scan# 1272
Delta R.T. 0.006 min
Lab File: 7w13241.D
Acq: 7 Mar 2025 3:13 am

Tgt Ion:	78	Resp:	3624
Ion	Ratio	Lower	Upper
78	100		
52	16.8	0.0	48.9
51	18.8	0.0	50.2



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\5W2194\
Data File : 5w57185.D
Acq On : 5 Mar 2025 3:48 am
Operator : thomash
Sample : je5976-11 Inst : GCMS5W
Misc : MS89870,V5W2194,400,,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 08 03:50:30 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

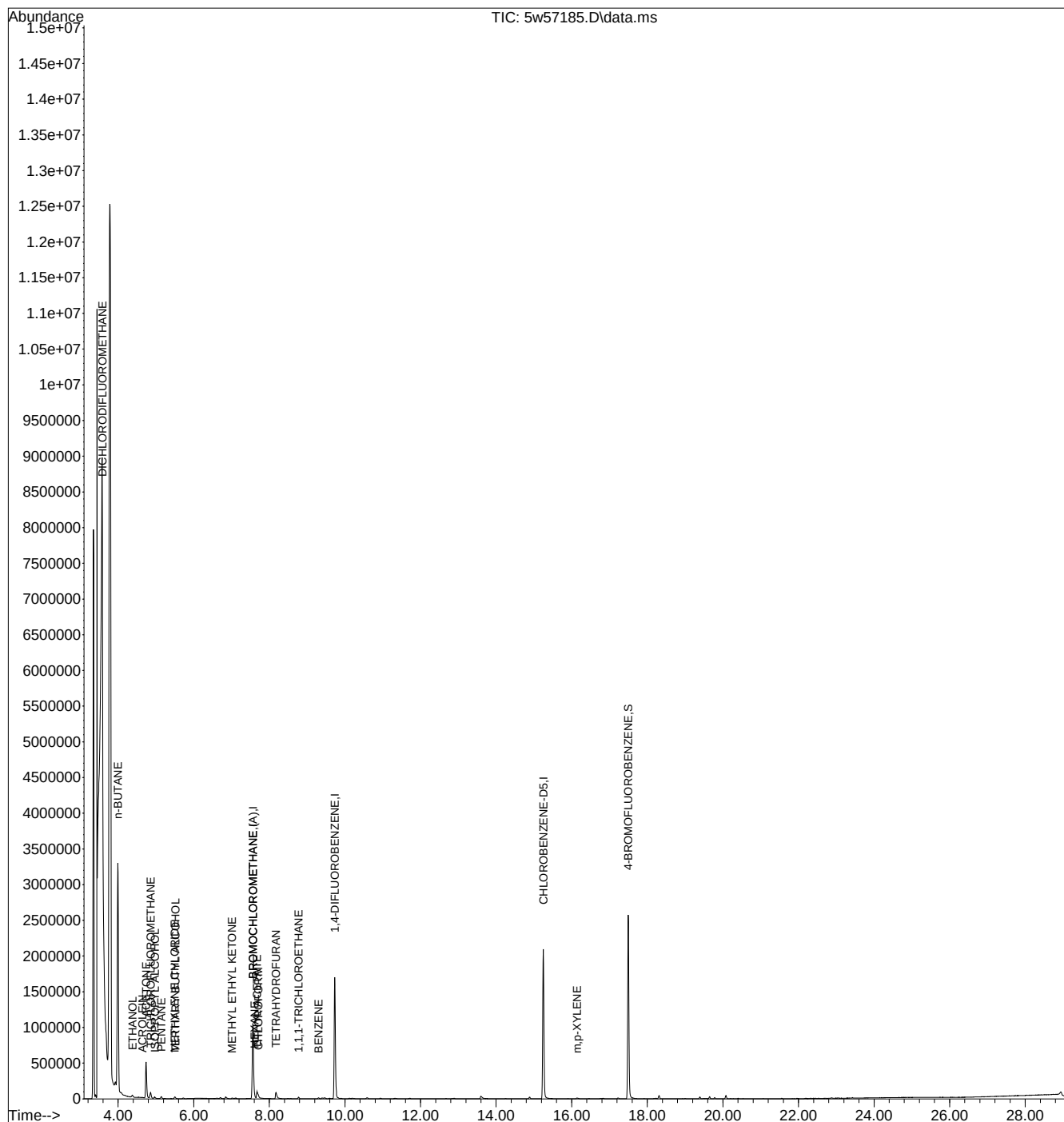
Internal Standards							
1)	BROMOCHLOROMETHANE	7.565	128	347310	10.00	PPBV	0.00
51)	1,4-DIFLUOROBENZENE	9.731	114	1670690	10.00	PPBV	0.00
70)	CHLOROBENZENE-D5	15.249	82	830413	10.00	PPBV	0.00
109)	BROMOCHLOROMETHANE (A)	7.565	128	347310	10.00	PPBV	# 0.00
System Monitoring Compounds							
85)	4-BROMOFLUOROBENZENE	17.494	95	1111260	10.38	PPBV	0.00
Spiked Amount 10.000		Range	65 - 128	Recovery	=	103.80%	
Target Compounds							
							Qvalue
6)	DICHLORODIFLUOROMETHANE	3.582	85	11172	0.1016	PPBV	98
13)	n-BUTANE	3.992	43	3777652	82.6607	PPBV	98
18)	ACROLEIN	4.635	56	3512	0.2338	PPBV	98
21)	TRICHLOROFLUOROMETHANE	4.855	101	50418	0.4676	PPBV	99
22)	ISOPROPYL ALCOHOL	4.971	45	27513	0.3858	PPBV	75
23)	ACETONE	4.739	58	209489	11.7325	PPBV #	1
24)	PENTANE	5.142	42	13892	0.4275	PPBV #	68
28)	ETHANOL	4.378	45	23389	1.3183	PPBV	91
31)	METHYLENE CHLORIDE	5.497	84	11093	0.3308	PPBV	94
35)	TERTIARY BUTYL ALCOHOL	5.516	59	8438	0.1175	PPBV #	7
37)	TETRAHYDROFURAN	8.171	72	34606	2.5173	PPBV	95
38)	HEXANE	7.608	57	17570	0.2974	PPBV #	78
41)	METHYL ETHYL KETONE	7.008	72	5387m	0.3875	PPBV	
44)	ETHYL ACETATE	7.675	61	23053	2.1541	PPBV #	72
46)	CHLOROFORM	7.706	83	16149	0.2021	PPBV	98
48)	1,1,1-TRICHLOROETHANE	8.770	97	18403	0.2189	PPBV	97
52)	BENZENE	9.302	78	15745	0.1360	PPBV	99
80)	m, p-XYLENE	16.142	106	7439	0.1022	PPBV	88

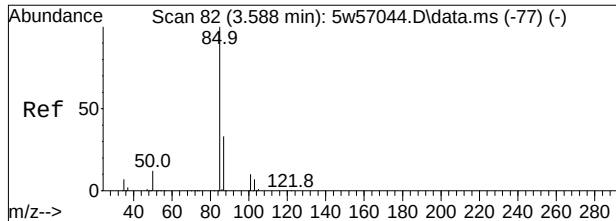
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\
Data File : 5w57185.D
Acq On : 5 Mar 2025 3:48 am
Operator : thomash
Sample : je5976-11 Inst : GCMS5W
Misc : MS89870,V5W2194,400,,,1
ALS Vial : 7 Sample Multiplier: 1

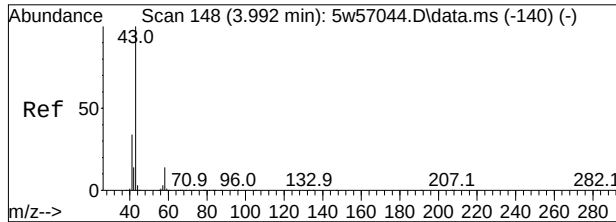
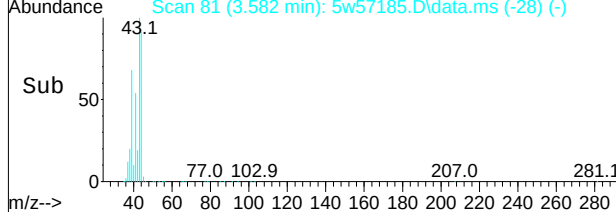
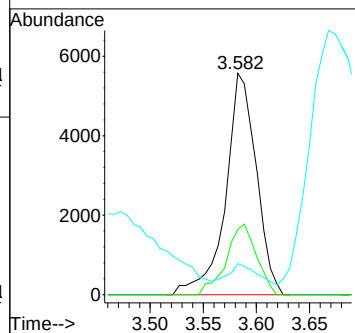
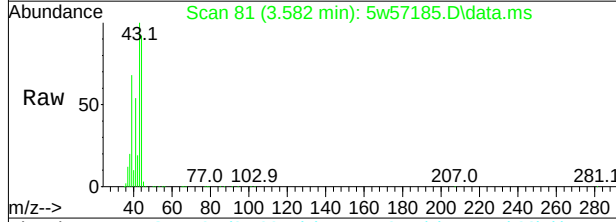
Quant Time: Mar 08 03:50:30 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration





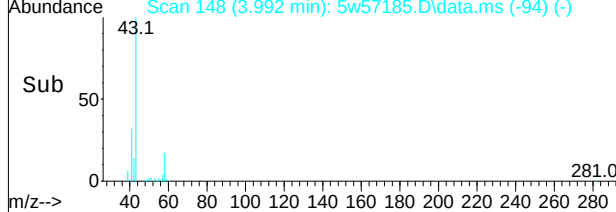
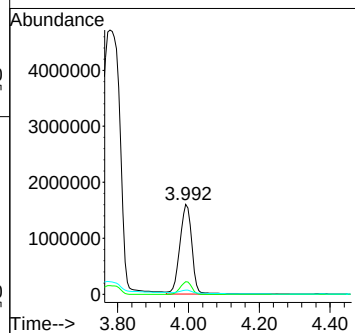
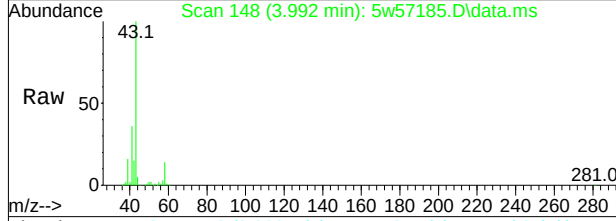
#6
DICHLORODIFLUOROMETHANE
Concen: 0.1016 PPBV
RT: 3.582 min Scan# 81
Delta R.T. -0.006 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

Tgt Ion:	85	Resp:	11172
Ion	Ratio	Lower	Upper
85	100		
87	31.5	2.7	62.7
50	11.3	0.0	42.6



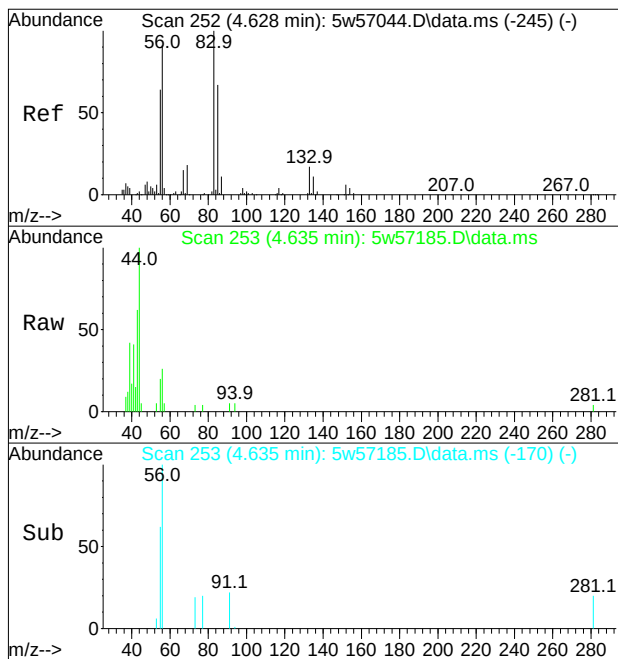
#13
n-BUTANE
Concen: 82.6607 PPBV
RT: 3.992 min Scan# 148
Delta R.T. 0.000 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

Tgt Ion:	43	Resp:	3777652
Ion	Ratio	Lower	Upper
43	100		
58	13.3	0.0	43.8
44	7.0	0.0	35.5



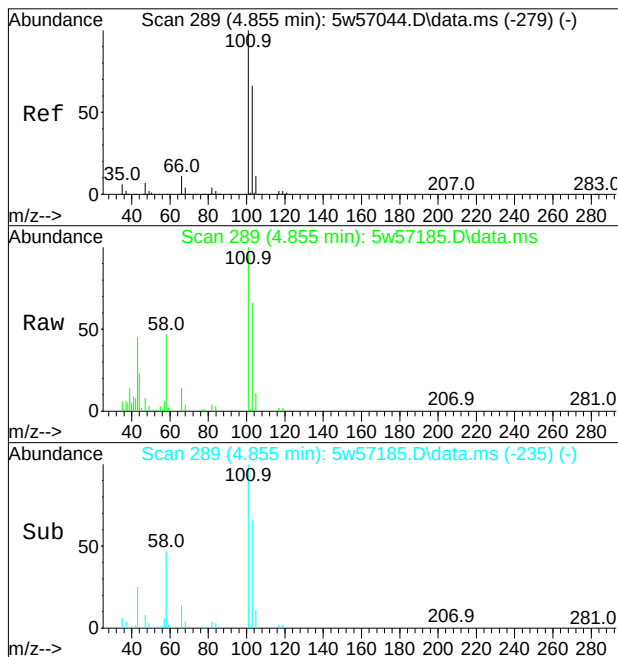
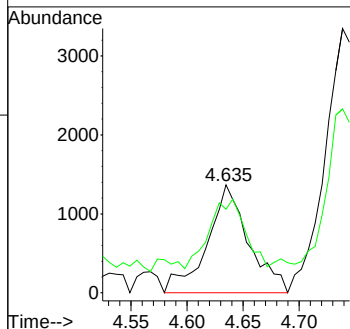
7.1.13
7





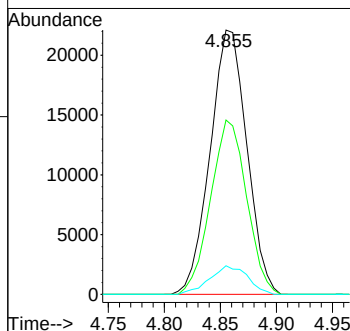
#18
ACROLEIN
Concen: 0.2338 PPBV
RT: 4.635 min Scan# 253
Delta R.T. 0.007 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

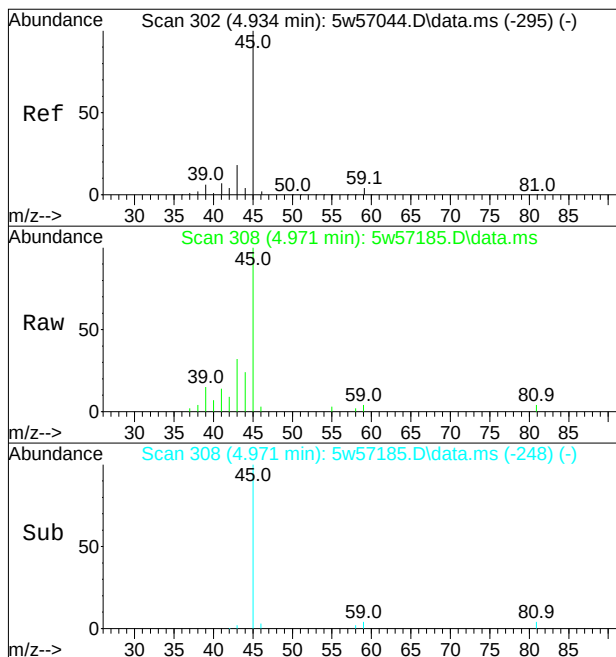
Tgt Ion: 56 Resp: 3512
Ion Ratio Lower Upper
56 100
55 65.3 46.8 86.8



#21
TRICHLOROFLUOROMETHANE
Concen: 0.4676 PPBV
RT: 4.855 min Scan# 289
Delta R.T. -0.000 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

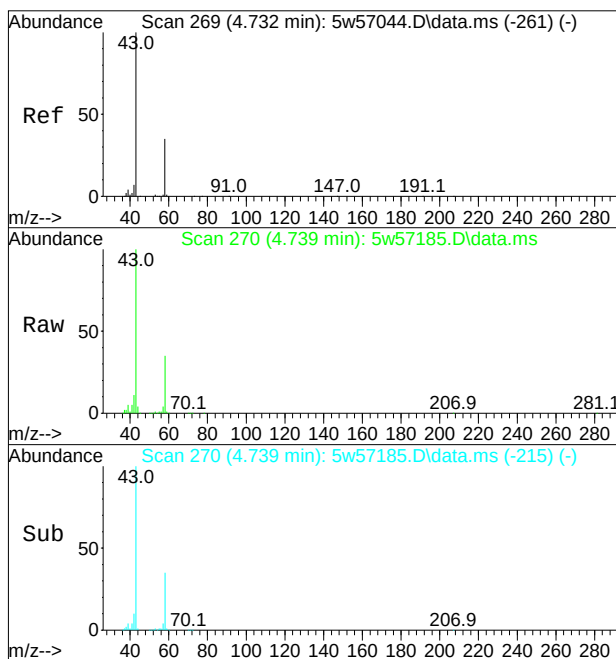
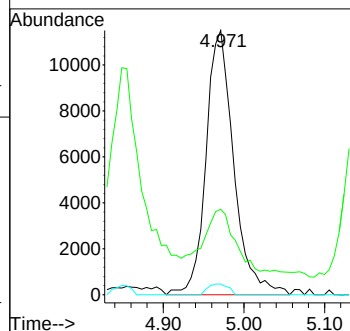
Tgt Ion: 101 Resp: 50418
Ion Ratio Lower Upper
101 100
103 64.6 35.5 95.5
105 11.2 0.0 40.8





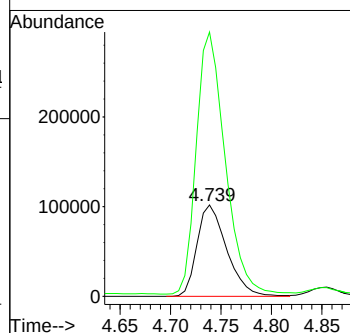
#22
ISOPROPYL ALCOHOL
Concen: 0.3858 PPBV
RT: 4.971 min Scan# 308
Delta R.T. 0.037 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

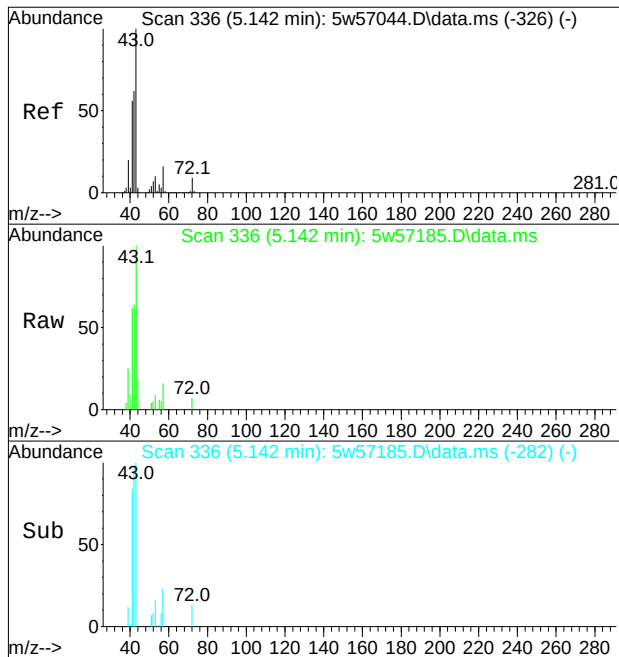
Tgt Ion:	45	Resp:	27513
Ion Ratio	Lower	Upper	
45	100		
43	32.4	0.0	48.5
59	4.0	0.0	34.2



#23
ACETONE
Concen: 11.7325 PPBV
RT: 4.739 min Scan# 270
Delta R.T. 0.007 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

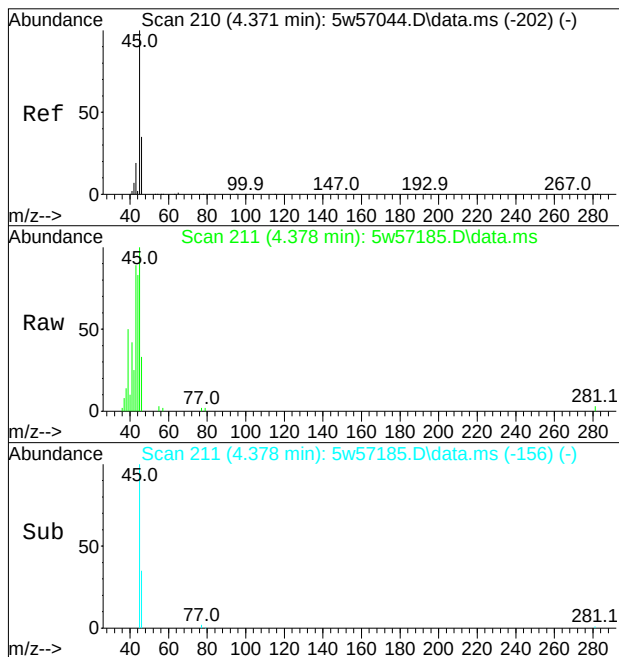
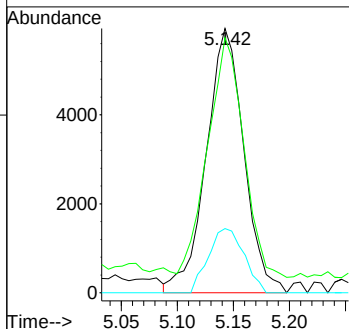
Tgt Ion:	58	Resp:	209489
Ion Ratio	Lower	Upper	
58	100		
43	276.9	0.0	32.7#





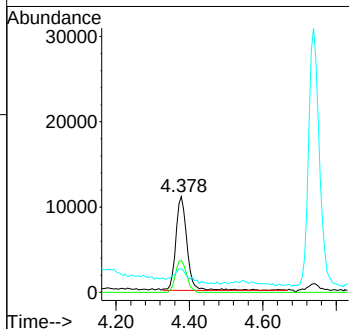
#24
PENTANE
Concen: 0.4275 PPBV
RT: 5.142 min Scan# 336
Delta R.T. 0.000 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

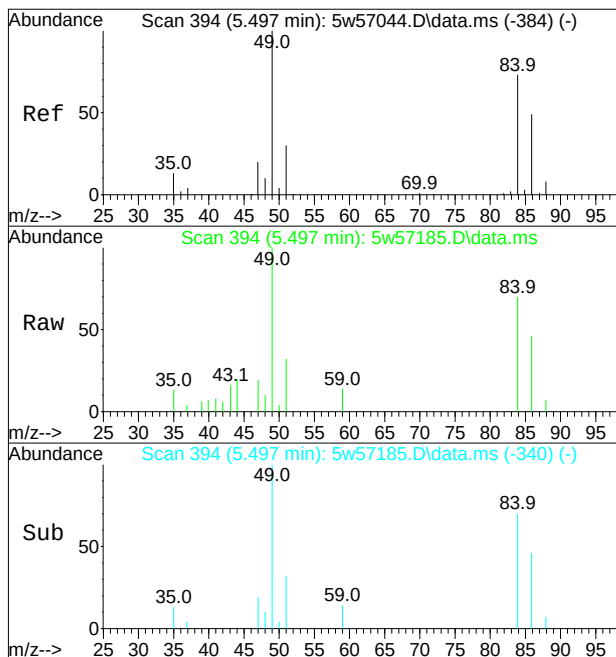
Tgt	Ion	Ratio	Lower	Upper
42	100			
41	130.6	62.9	122.9	
57	23.0	0.0	57.4	



#28
ETHANOL
Concen: 1.3183 PPBV
RT: 4.378 min Scan# 211
Delta R.T. 0.007 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

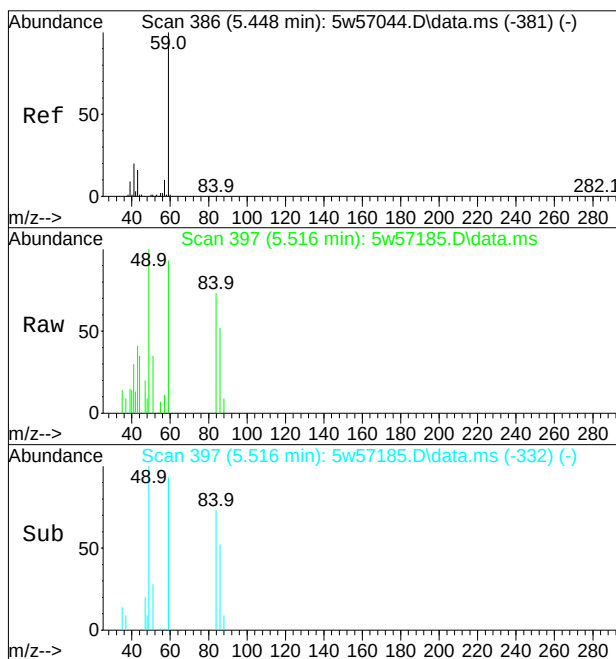
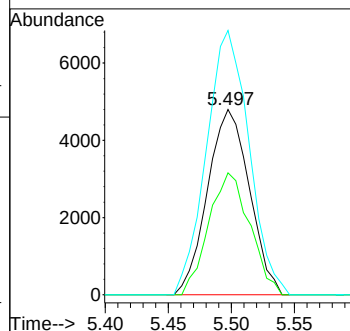
Tgt	Ion	Ratio	Lower	Upper
45	100			
46	34.0	5.4	65.4	
42	20.4	0.0	37.7	





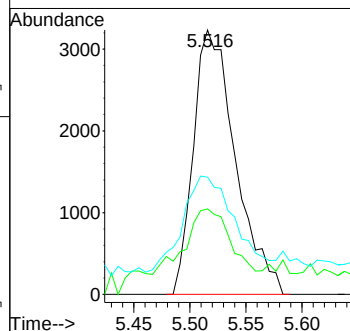
#31
METHYLENE CHLORIDE
Concen: 0.3308 PPBV
RT: 5.497 min Scan# 394
Delta R.T. 0.000 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

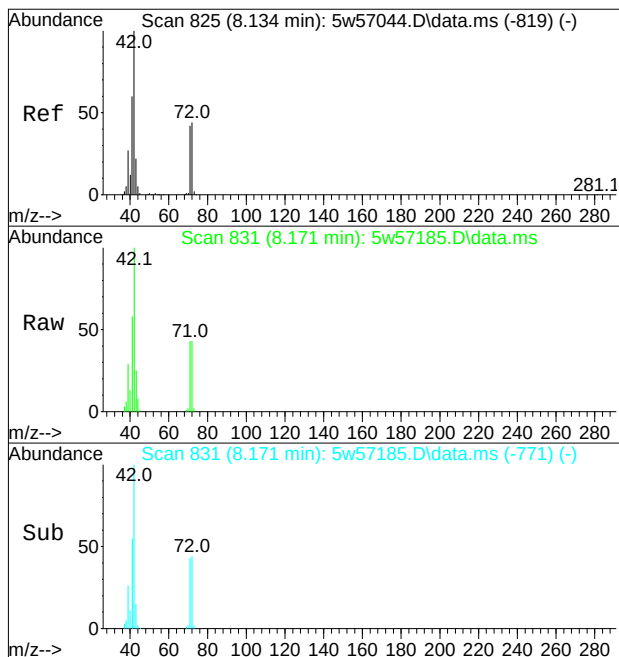
Tgt Ion: 84 Resp: 11093
Ion Ratio Lower Upper
84 100
86 64.5 36.1 96.1
49 144.9 106.2 166.2



#35
TERTIARY BUTYL ALCOHOL
Concen: 0.1175 PPBV
RT: 5.516 min Scan# 397
Delta R.T. 0.068 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

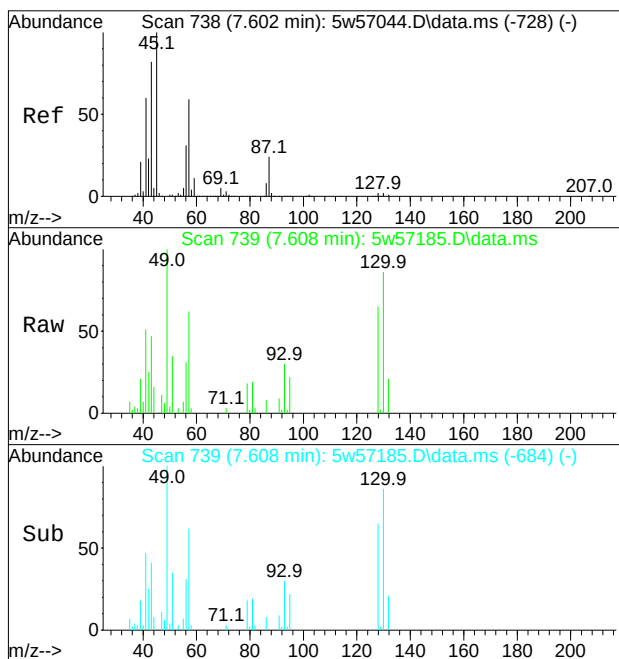
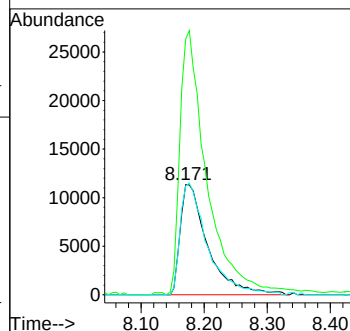
Tgt Ion: 59 Resp: 8438
Ion Ratio Lower Upper
59 100
41 71.2 0.0 51.8#
43 48.3 0.0 45.4#





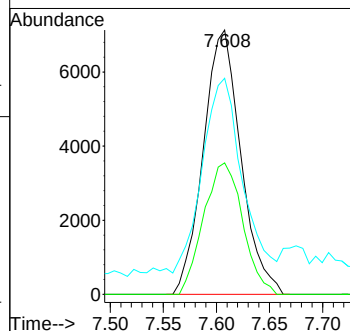
#37
TETRAHYDROFURAN
Concen: 2.5173 PPBV
RT: 8.171 min Scan# 831
Delta R.T. 0.037 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

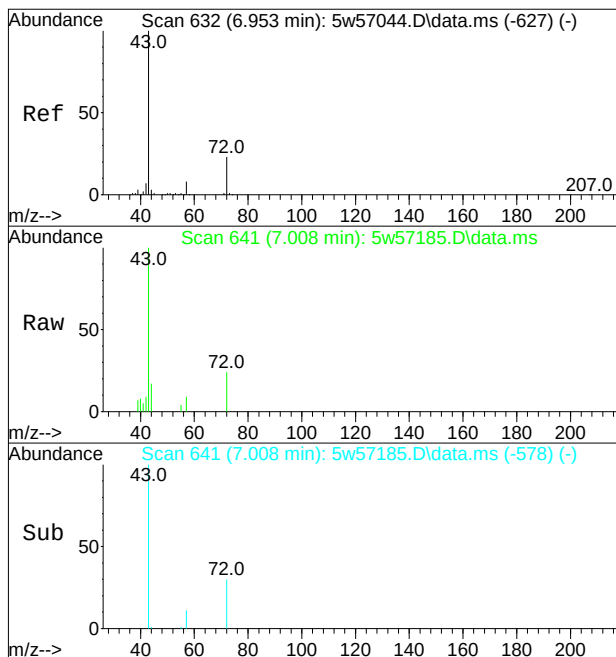
Tgt Ion: 72 Resp: 34606
Ion Ratio Lower Upper
72 100
42 238.8 197.6 257.6
71 100.0 69.0 129.0



#38
HEXANE
Concen: 0.2974 PPBV
RT: 7.608 min Scan# 739
Delta R.T. 0.006 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

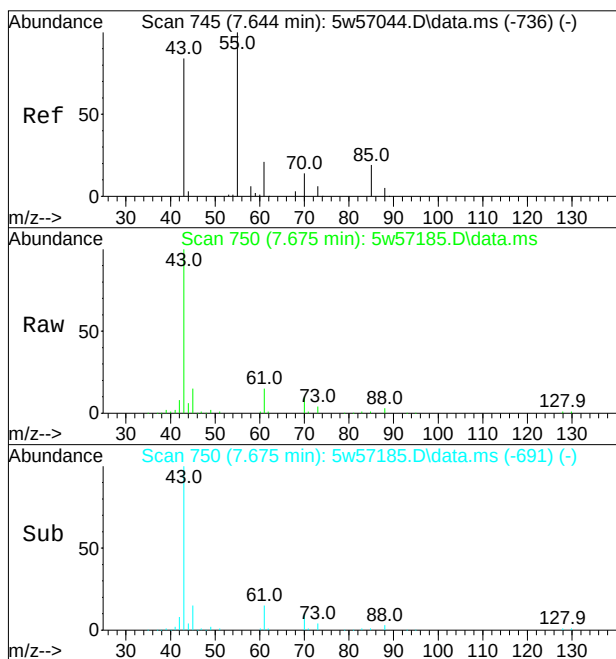
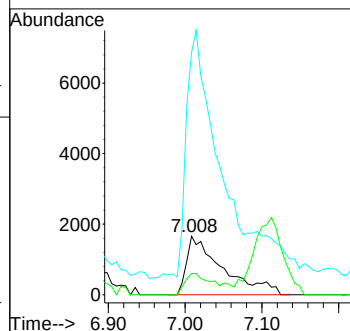
Tgt Ion: 57 Resp: 17570
Ion Ratio Lower Upper
57 100
56 51.6 25.5 85.5
41 76.5 78.7 138.7#





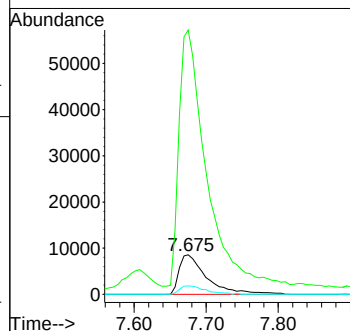
#41
METHYL ETHYL KETONE
Concen: 0.3875 PPBV m
RT: 7.008 min Scan# 641
Delta R.T. 0.055 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

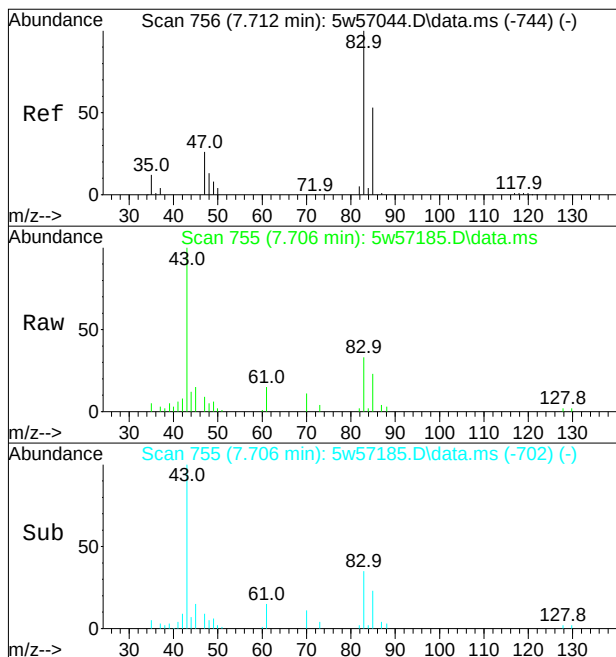
Tgt Ion: 72	Resp: 5387
Ion Ratio Lower Upper	
72 100	
57 36.4 3.9 63.9	
43 414.4 401.3 461.3	



#44
ETHYL ACETATE
Concen: 2.1541 PPBV
RT: 7.675 min Scan# 750
Delta R.T. 0.031 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

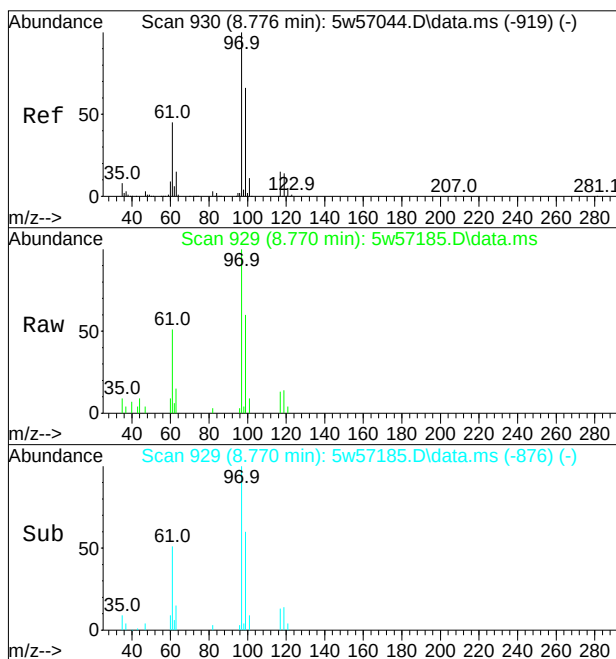
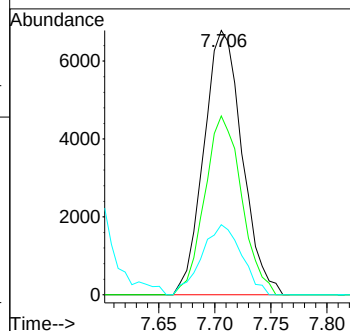
Tgt Ion: 61	Resp: 23053
Ion Ratio Lower Upper	
61 100	
43 682.2 0.0 30.0#	
88 20.3 7.2 67.2	





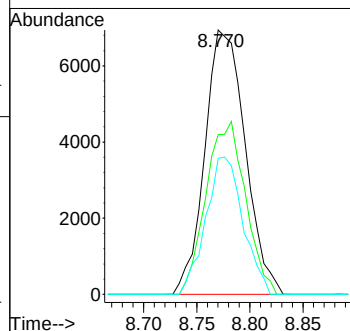
#46
CHLOROFORM
Concen: 0.2021 PPBV
RT: 7.706 min Scan# 755
Delta R.T. -0.006 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

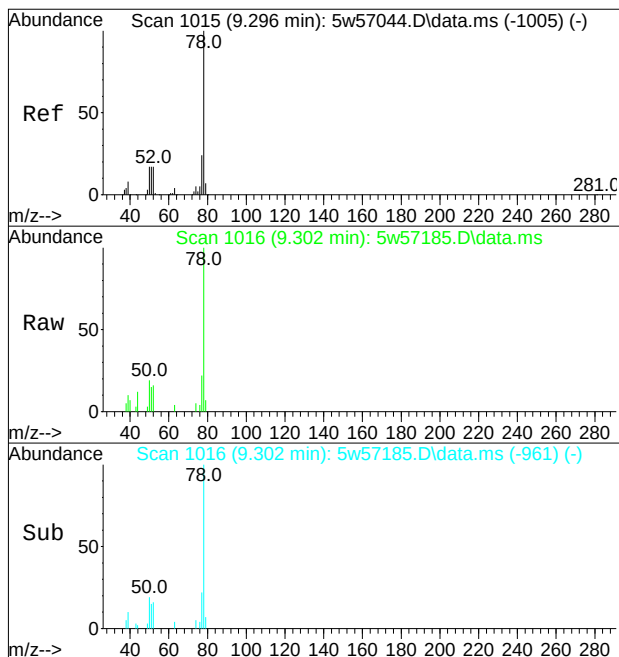
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	37.0	97.0
47	27.6	0.0	56.2



#48
1,1,1-TRICHLOROETHANE
Concen: 0.2189 PPBV
RT: 8.770 min Scan# 929
Delta R.T. -0.006 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

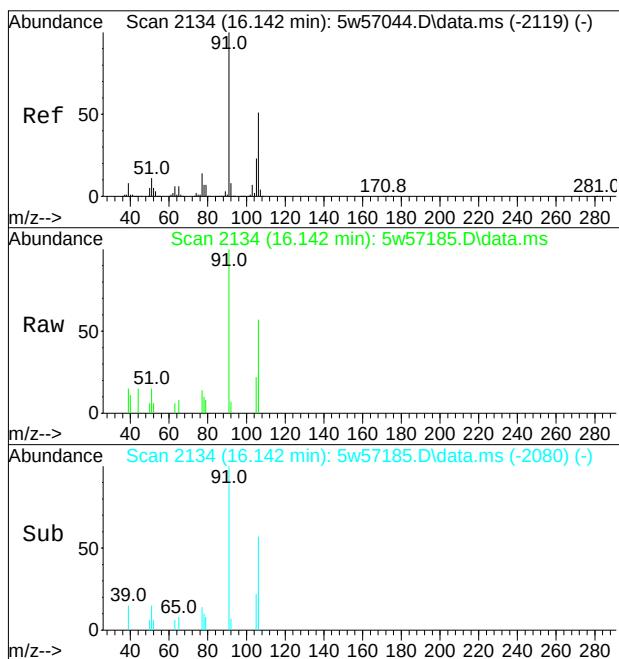
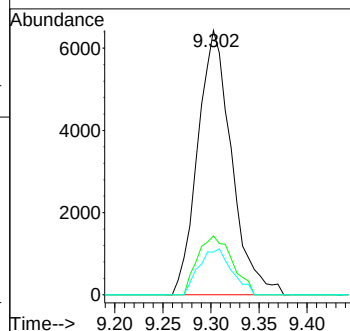
Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.7	35.1	95.1
61	47.7	14.7	74.7





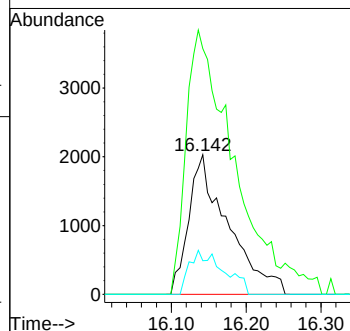
#52
BENZENE
Concen: 0.1360 PPBV
RT: 9.302 min Scan# 1016
Delta R.T. 0.006 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

Tgt Ion: 78 Resp: 15745
Ion Ratio Lower Upper
78 100
77 22.9 0.0 53.7
52 16.9 0.0 46.4



#80
m,p-XYLENE
Concen: 0.1022 PPBV
RT: 16.142 min Scan# 2134
Delta R.T. 0.000 min
Lab File: 5w57185.D
Acq: 5 Mar 2025 3:48 am

Tgt Ion: 106 Resp: 7439
Ion Ratio Lower Upper
106 100
91 176.1 166.2 226.2
77 24.2 0.0 56.8



Manual Integration Approval Summary

Sample Number: JE5976-11

Method: TO-15

Lab FileID: 5W57185.D

Analyst approved: 03/07/25 23:08 Geralyn Gomez

Injection Time: 03/05/25 03:48

Supervisor approved: 03/08/25 00:01 Kanya Veerawat

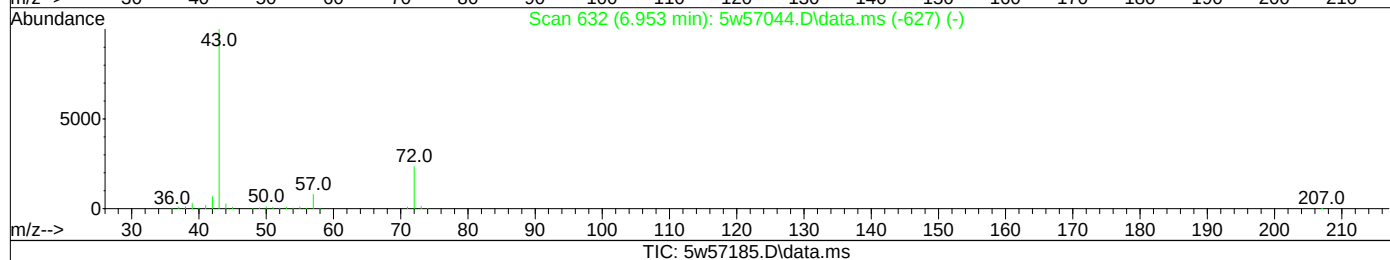
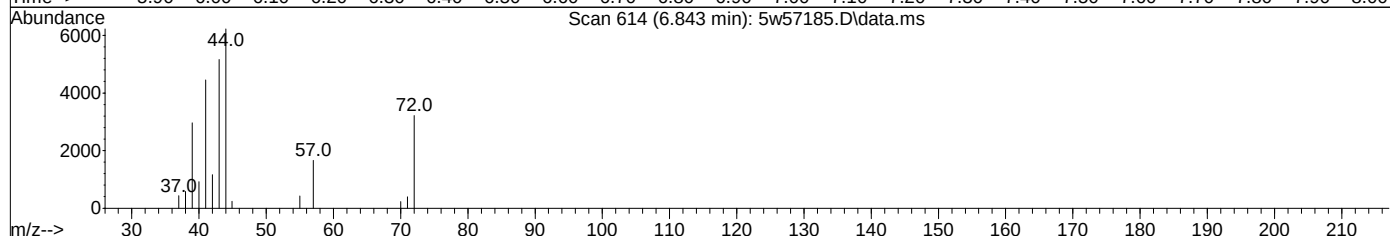
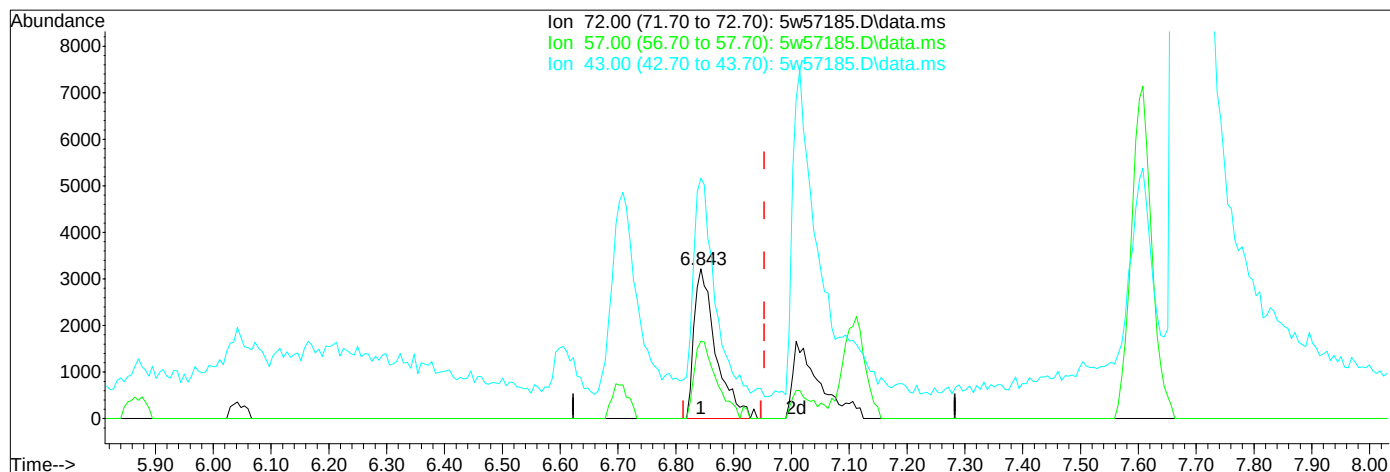
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl ethyl ketone	78-93-3		7.01	Missed peak

7.1.13.1
7

Quantitation Report (Qedit)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\
Data File : 5w57185.D
Acq On : 5 Mar 2025 3:48 am
Operator : thomash
Sample : je5976-11
Misc : MS89870,V5W2194,400,,,1
ALS Vial : 7 Sample Multiplier: 1
Inst : GCMS5W

Quant Time: Mar 08 03:48:44 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



(41) METHYL ETHYL KETONE

6.843min (-0.110) 0.61PPBV

response 8421

Ion	Exp%	Act%

72.00	100	100

57.00	33.90	51.66

43.00	431.30	160.49#

0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\
 Data File : 5w57186.D
 Acq On : 5 Mar 2025 4:40 am
 Operator : thomash
 Sample : je5976-12 Inst : GCMS5W
 Misc : MS89870,V5W2194,400,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 08 03:52:42 2025
 Quant Method : C:\msdchem\1\methods\M5w2187.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Mon Feb 24 14:22:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.559	128	352311	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.731	114	1715272	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	853633	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.559	128	352311	10.00	PPBV	#-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.494	95	1148861	10.44	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	104.40%
Target Compounds						
					Qvalue	
13) n-BUTANE	3.986	43	3880786	83.7120	PPBV	96
21) TRICHLOROFLUOROMETHANE	4.849	101	46425	0.4245	PPBV	99
22) ISOPROPYL ALCOHOL	4.959	45	36498	0.5045	PPBV	65
23) ACETONE	4.733	58	217817	12.0258	PPBV #	1
24) PENTANE	5.136	42	15406	0.4673	PPBV	96
28) ETHANOL	4.372	45	21090	1.1719	PPBV	91
31) METHYLENE CHLORIDE	5.491	84	9410	0.2766	PPBV	94
35) TERTIARY BUTYL ALCOHOL	5.516	59	8512	0.1169	PPBV #	17
37) TETRAHYDROFURAN	8.177	72	34364	2.4642	PPBV	99
38) HEXANE	7.602	57	14641	0.2443	PPBV #	79
41) METHYL ETHYL KETONE	7.008	72	4654	0.3300	PPBV #	67
44) ETHYL ACETATE	7.669	61	23458	2.1608	PPBV #	73
46) CHLOROFORM	7.700	83	17566	0.2167	PPBV	98
48) 1,1,1-TRICHLOROETHANE	8.770	97	15561	0.1825	PPBV	97
52) BENZENE	9.296	78	15223	0.1281	PPBV	97
80) m,p-XYLENE	16.130	106	7858	0.1050	PPBV	87

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

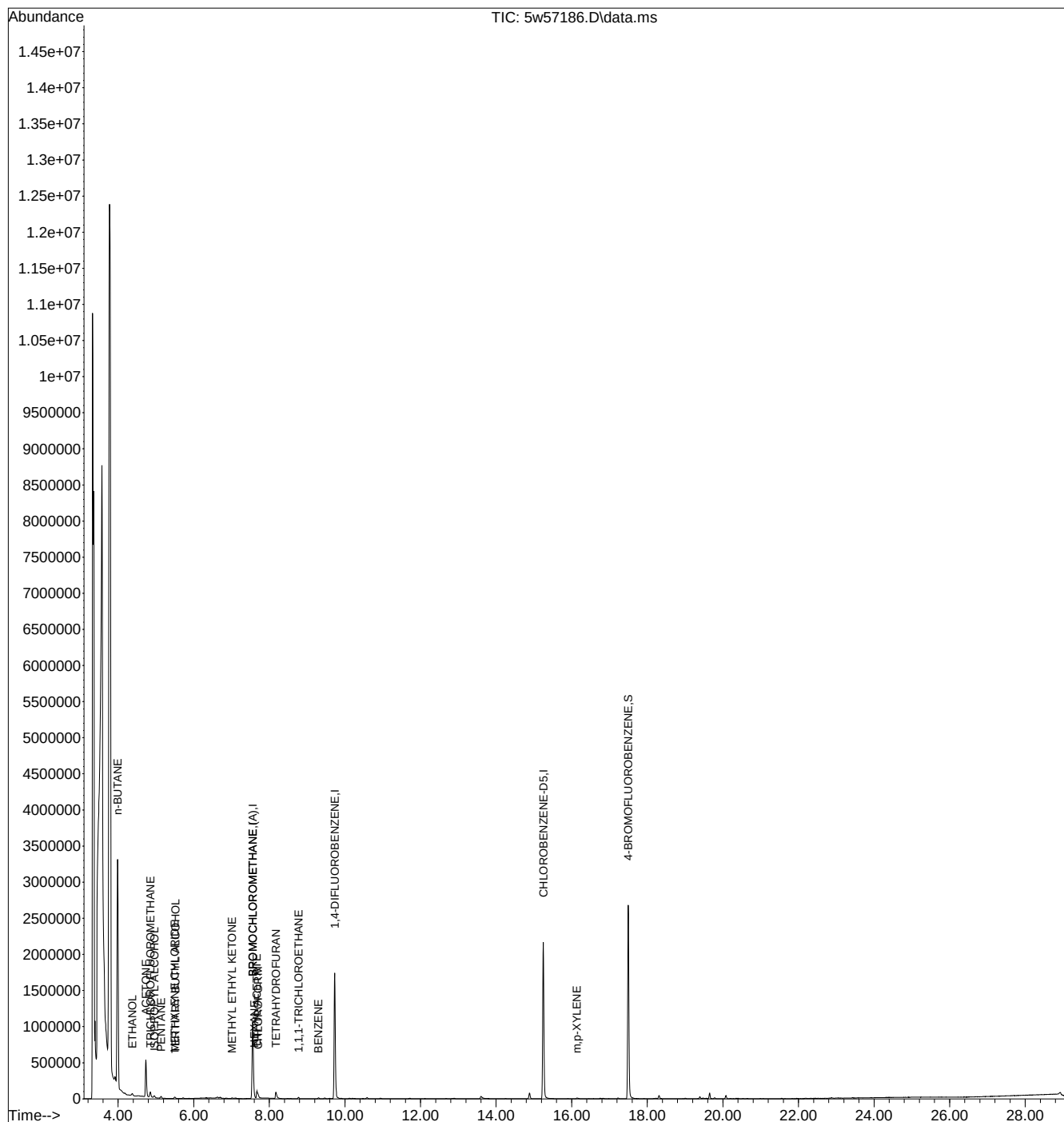
7.1.14

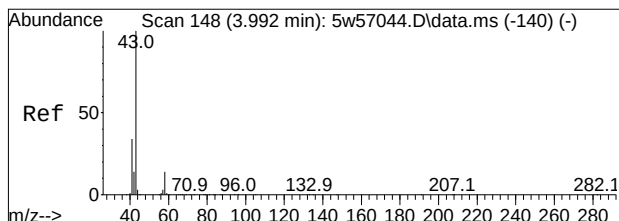
7

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\
Data File : 5w57186.D
Acq On : 5 Mar 2025 4:40 am
Operator : thomash
Sample : je5976-12 Inst : GCMS5W
Misc : MS89870,V5W2194,400,,,,,1
ALS Vial : 8 Sample Multiplier: 1

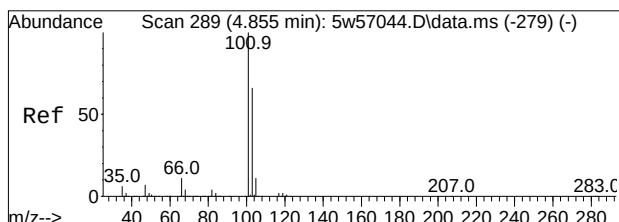
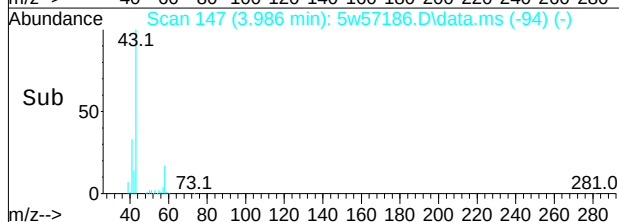
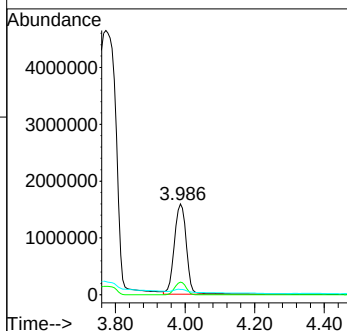
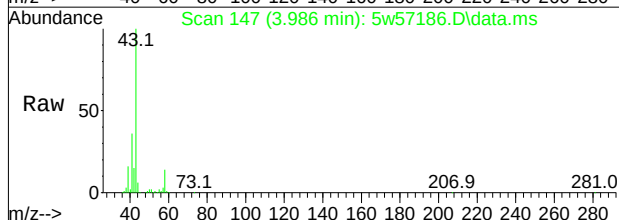
Quant Time: Mar 08 03:52:42 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration





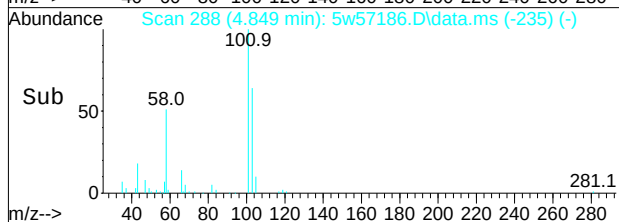
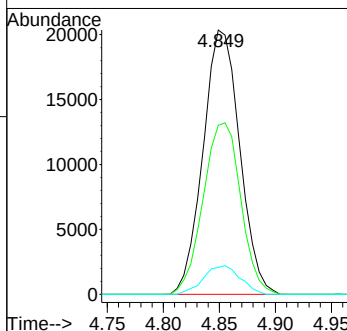
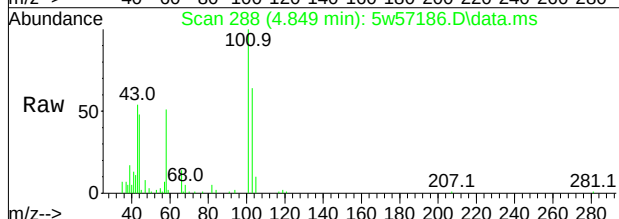
#13
n-BUTANE
Concen: 83.7120 PPBV
RT: 3.986 min Scan# 147
Delta R.T. -0.006 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

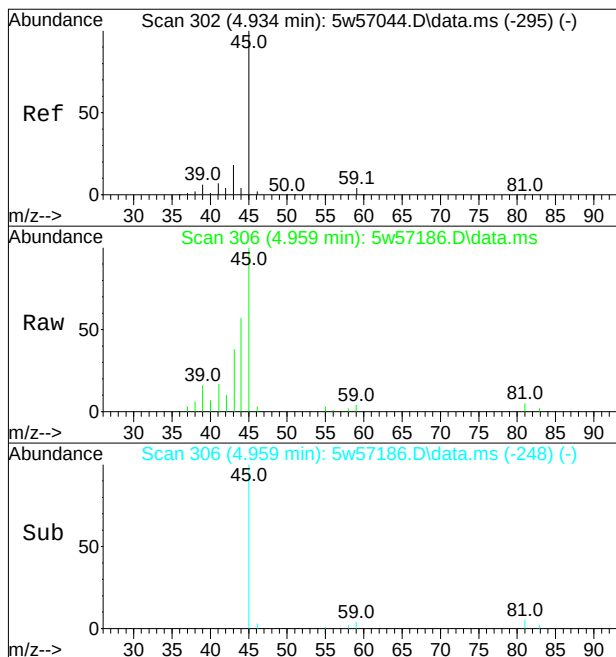
Tgt Ion: 43 Resp: 3880786
Ion Ratio Lower Upper
43 100
58 13.1 0.0 43.8
44 9.3 0.0 35.5



#21
TRICHLOROFLUOROMETHANE
Concen: 0.4245 PPBV
RT: 4.849 min Scan# 288
Delta R.T. -0.006 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

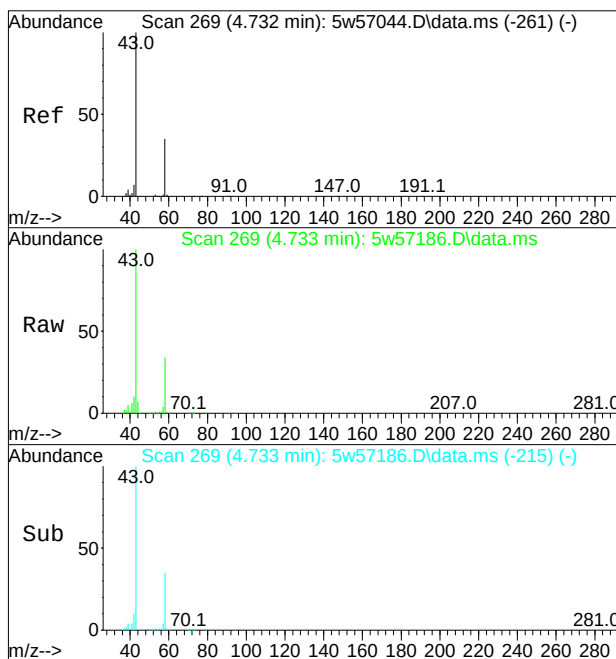
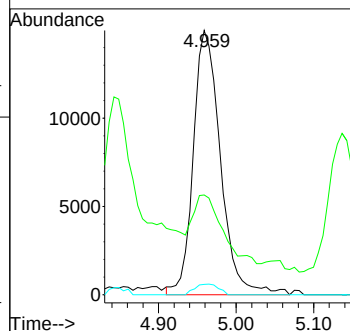
Tgt Ion: 101 Resp: 46425
Ion Ratio Lower Upper
101 100
103 66.4 35.5 95.5
105 10.9 0.0 40.8





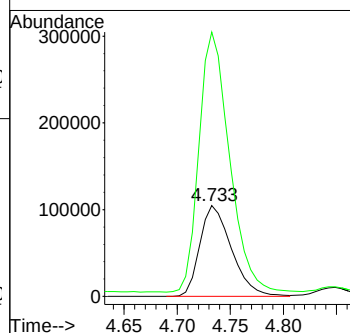
#22
ISOPROPYL ALCOHOL
Concen: 0.5045 PPBV
RT: 4.959 min Scan# 306
Delta R.T. 0.025 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

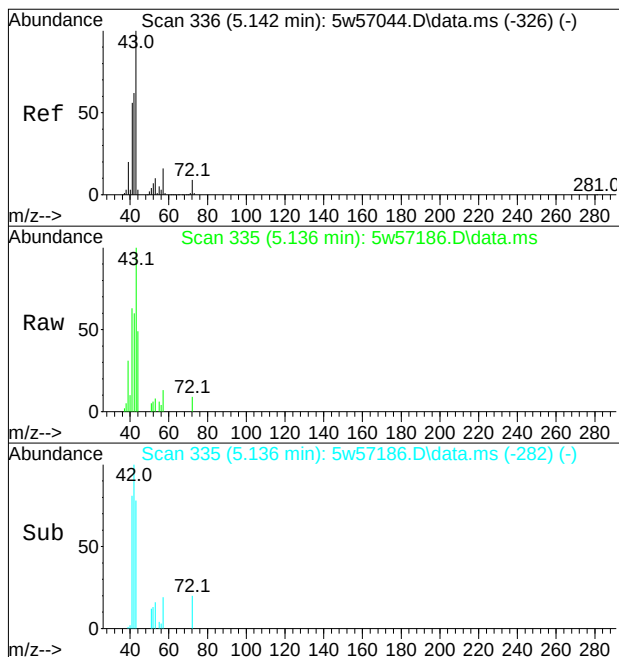
Tgt Ion:	45	Resp:	36498
Ion Ratio	Lower	Upper	
45	100		
43	37.7	0.0	48.5
59	3.9	0.0	34.2



#23
ACETONE
Concen: 12.0258 PPBV
RT: 4.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

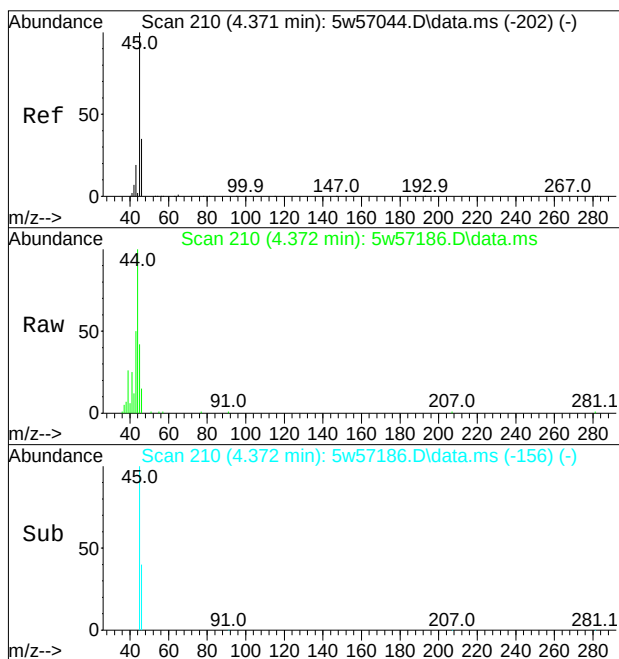
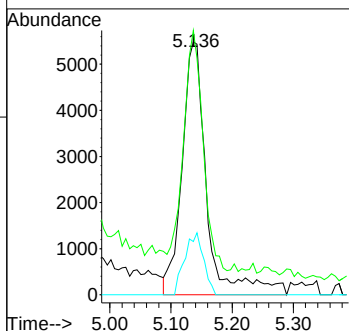
Tgt Ion:	58	Resp:	217817
Ion Ratio	Lower	Upper	
58	100		
43	277.2	0.0	32.7#





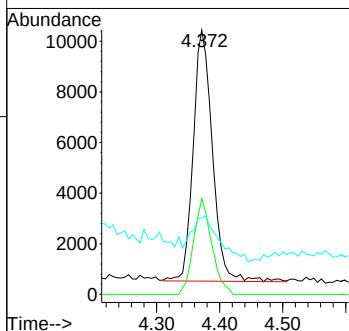
#24
PENTANE
Concen: 0.4673 PPBV
RT: 5.136 min Scan# 335
Delta R.T. -0.006 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

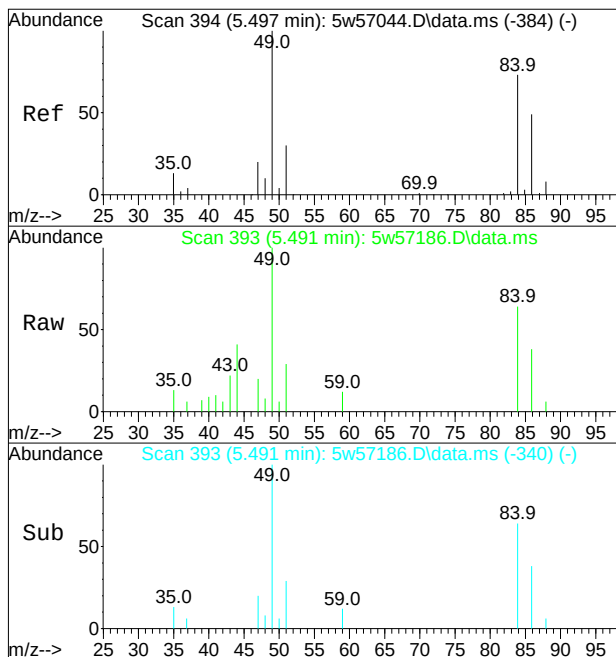
Tgt Ion: 42	Resp: 15406
Ion Ratio Lower Upper	
42 100	
41 93.1 62.9 122.9	
57 18.7 0.0 57.4	



#28
ETHANOL
Concen: 1.1719 PPBV
RT: 4.372 min Scan# 210
Delta R.T. 0.001 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

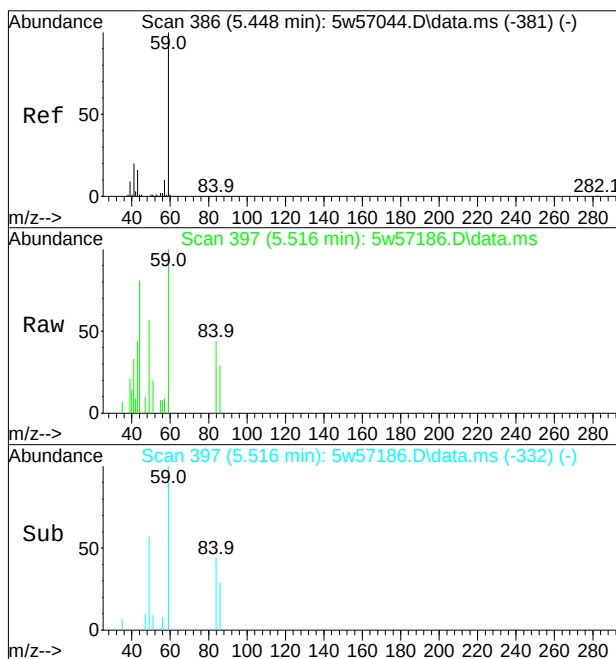
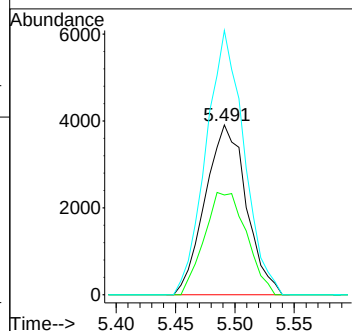
Tgt Ion: 45	Resp: 21090
Ion Ratio Lower Upper	
45 100	
46 35.9 5.4 65.4	
42 23.6 0.0 37.7	





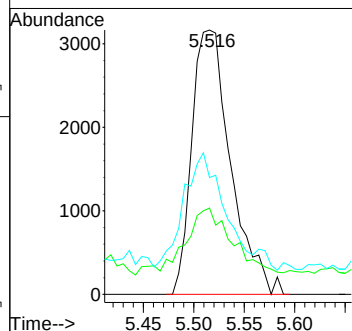
#31
METHYLENE CHLORIDE
Concen: 0.2766 PPBV
RT: 5.491 min Scan# 393
Delta R.T. -0.006 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

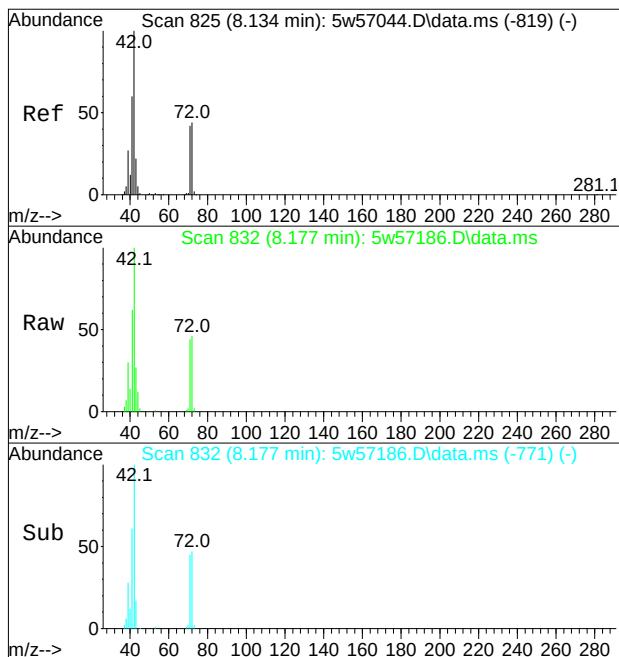
Tgt Ion:	84	Resp:	9410
Ion Ratio	Lower	Upper	
84	100		
86	61.8	36.1	96.1
49	143.9	106.2	166.2



#35
TERTIARY BUTYL ALCOHOL
Concen: 0.1169 PPBV
RT: 5.516 min Scan# 397
Delta R.T. 0.068 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

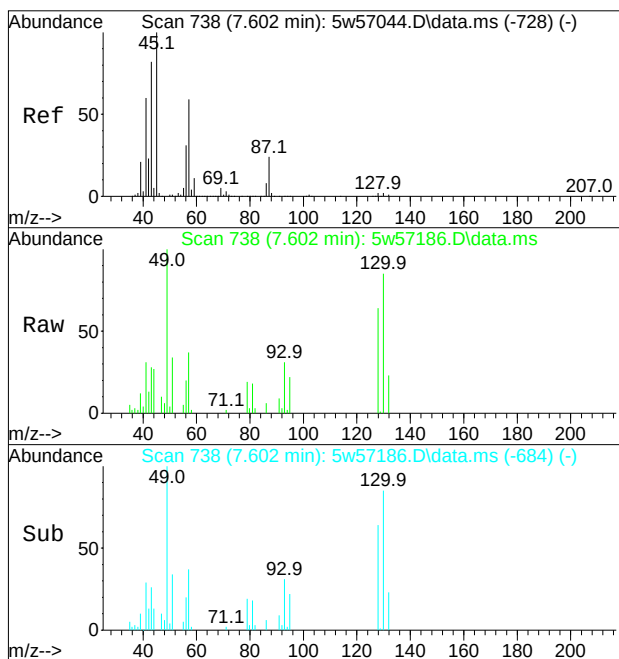
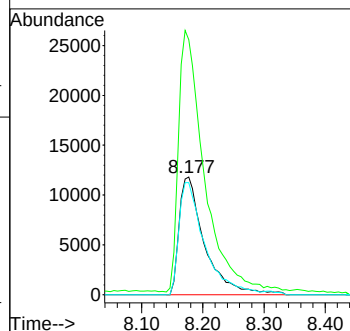
Tgt Ion:	59	Resp:	8512
Ion Ratio	Lower	Upper	
59	100		
41	62.8	0.0	51.8#
43	48.7	0.0	45.4#





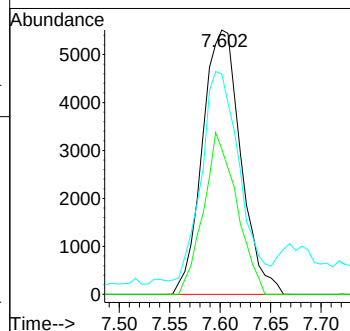
#37
TETRAHYDROFURAN
Concen: 2.4642 PPBV
RT: 8.177 min Scan# 832
Delta R.T. 0.043 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

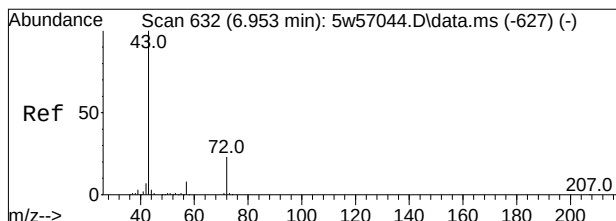
Tgt Ion: 72 Resp: 34364
Ion Ratio Lower Upper
72 100
42 229.1 197.6 257.6
71 98.1 69.0 129.0



#38
HEXANE
Concen: 0.2443 PPBV
RT: 7.602 min Scan# 738
Delta R.T. -0.000 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

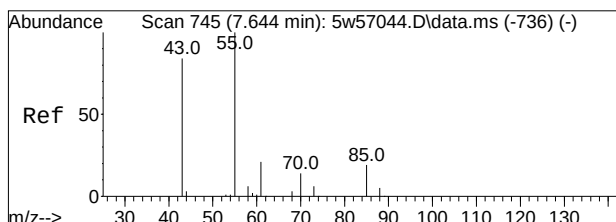
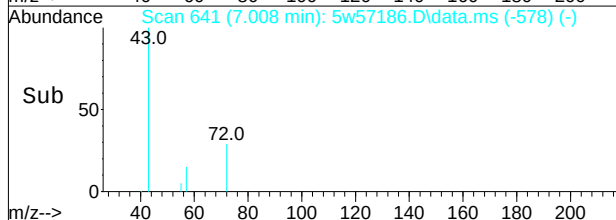
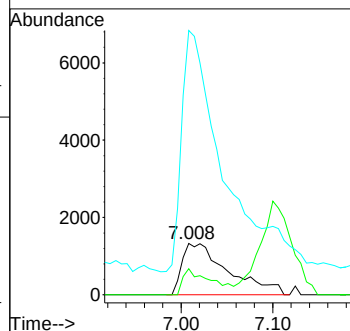
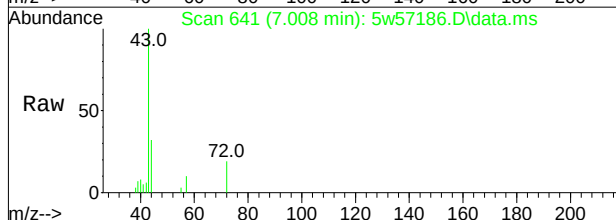
Tgt Ion: 57 Resp: 14641
Ion Ratio Lower Upper
57 100
56 52.9 25.5 85.5
41 77.0 78.7 138.7#





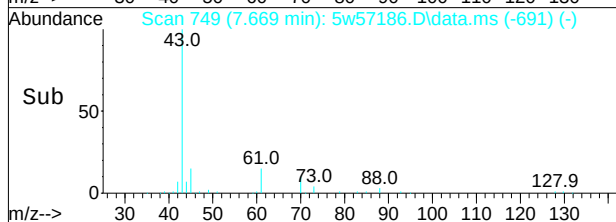
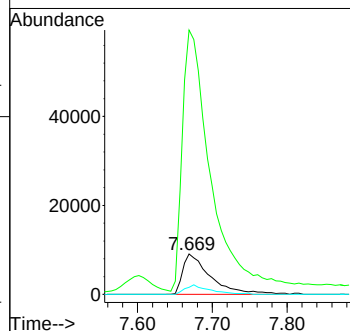
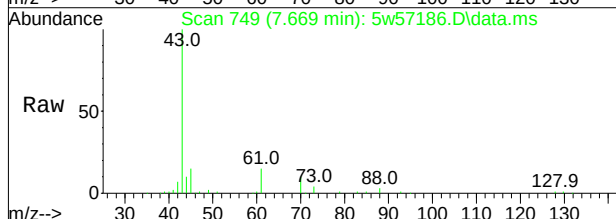
#41
METHYL ETHYL KETONE
Concen: 0.3300 PPBV
RT: 7.008 min Scan# 641
Delta R.T. 0.055 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

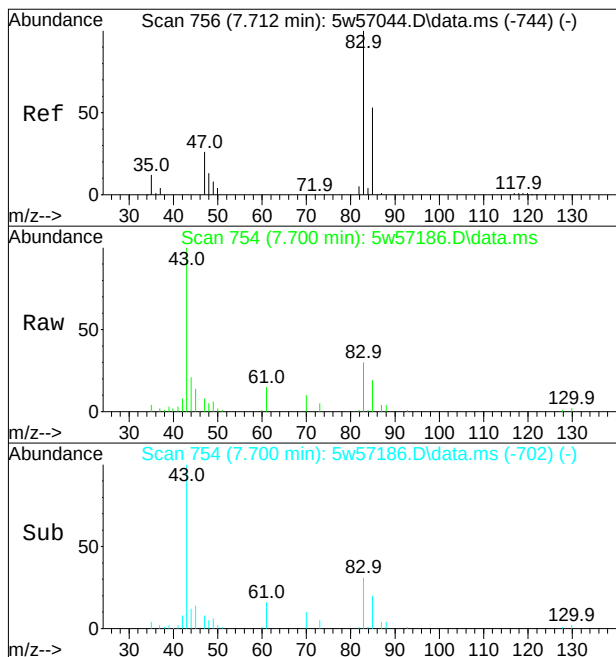
Tgt Ion: 72 Resp: 4654
Ion Ratio Lower Upper
72 100
57 50.6 3.9 63.9
43 514.4 401.3 461.3#



#44
ETHYL ACETATE
Concen: 2.1608 PPBV
RT: 7.669 min Scan# 749
Delta R.T. 0.025 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

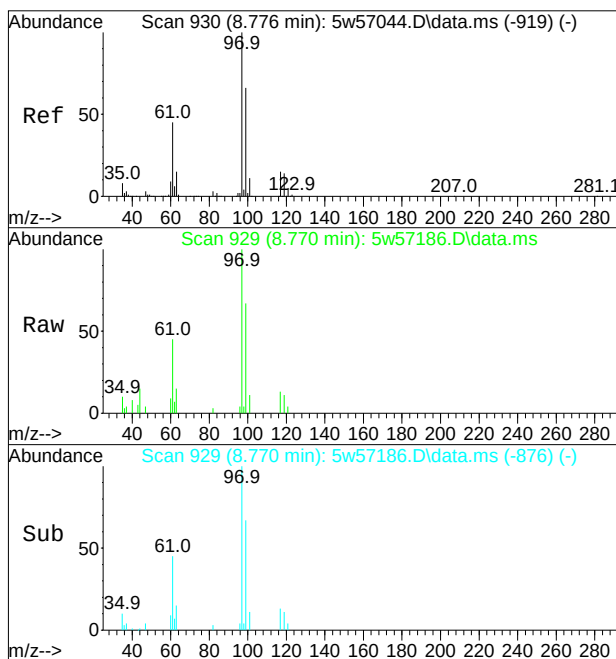
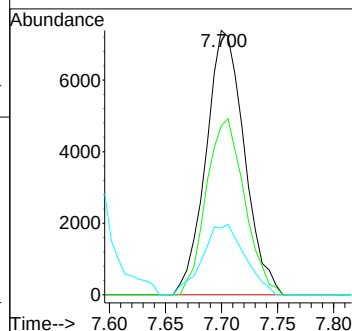
Tgt Ion: 61 Resp: 23458
Ion Ratio Lower Upper
61 100
43 718.4 0.0 30.0#
88 21.3 7.2 67.2





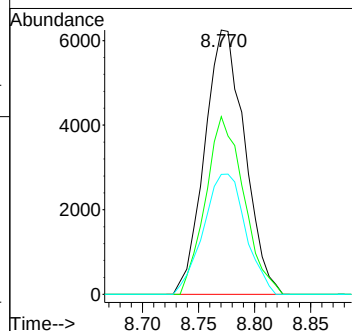
#46
CHLOROFORM
Concen: 0.2167 PPBV
RT: 7.700 min Scan# 754
Delta R.T. -0.012 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

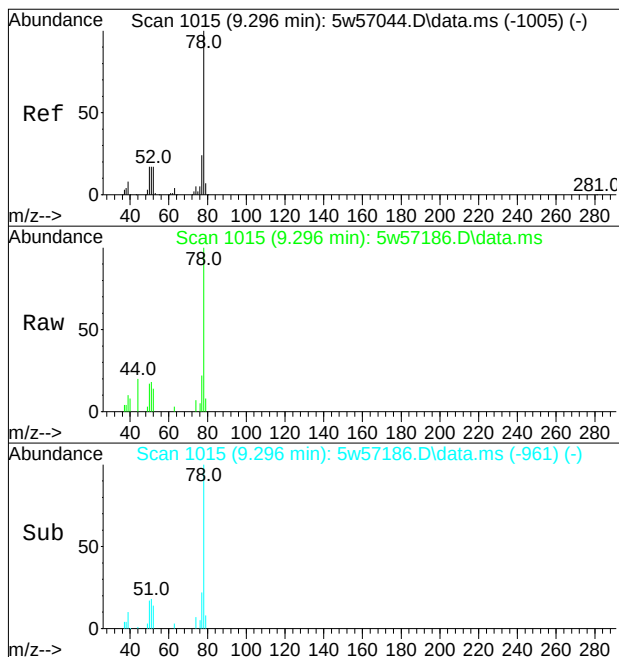
Tgt Ion: 83	Resp: 17566
Ion Ratio Lower Upper	
83 100	
85 66.6 37.0 97.0	
47 29.5 0.0 56.2	



#48
1,1,1-TRICHLOROETHANE
Concen: 0.1825 PPBV
RT: 8.770 min Scan# 929
Delta R.T. -0.006 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

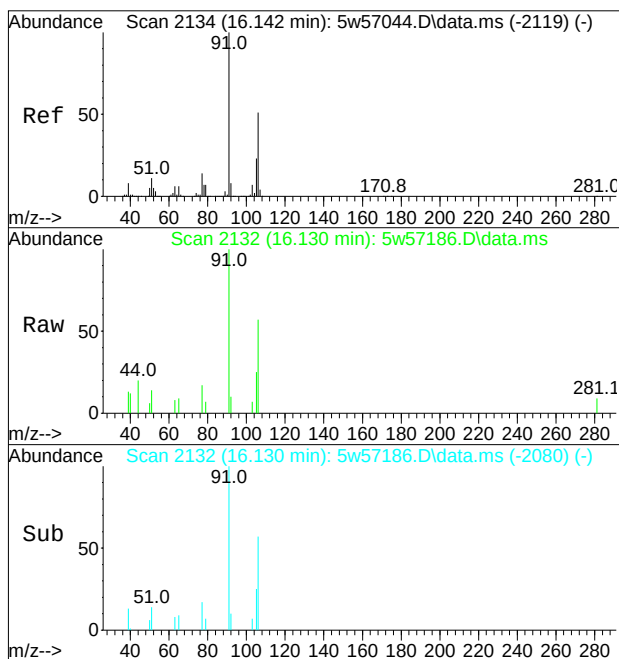
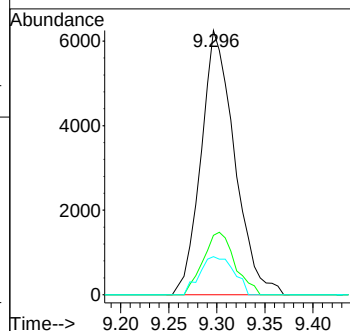
Tgt Ion: 97	Resp: 15561
Ion Ratio Lower Upper	
97 100	
99 64.2 35.1 95.1	
61 47.9 14.7 74.7	





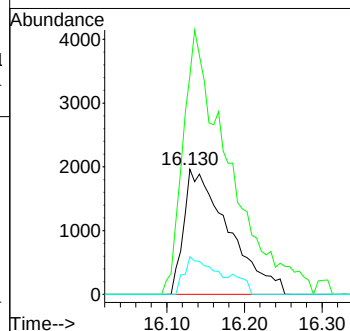
#52
BENZENE
Concen: 0.1281 PPBV
RT: 9.296 min Scan# 1015
Delta R.T. 0.000 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.3	0.0	53.7
52	14.7	0.0	46.4



#80
m,p-XYLENE
Concen: 0.1050 PPBV
RT: 16.130 min Scan# 2132
Delta R.T. -0.012 min
Lab File: 5w57186.D
Acq: 5 Mar 2025 4:40 am

Tgt Ion	Ratio	Lower	Upper
106	100		
91	175.0	166.2	226.2
77	30.1	0.0	56.8



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13242.D
Acq On : 7 Mar 2025 3:52 am
Operator : williamc
Sample : je5976-13 Inst : MS7W
Misc : MS89870,v7w465,100,,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 08 06:32:37 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.232	128	128495	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.499	114	628145	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	580181	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.232	128	128495	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.379	95	392952	9.33	PPBV	0.00
Target Compounds						
					Qvalue	
6) DICHLORODIFLUOROMETHANE	1.669	85	3052	0.0953	PPBV	98
13) N-BUTANE	1.827	43	2945	0.1767	PPBV #	94
23) ACETONE	2.113	58	4628	0.6199	PPBV #	41
44) ETHYL ACETATE	3.306	61	974	0.2402	PPBV #	1

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

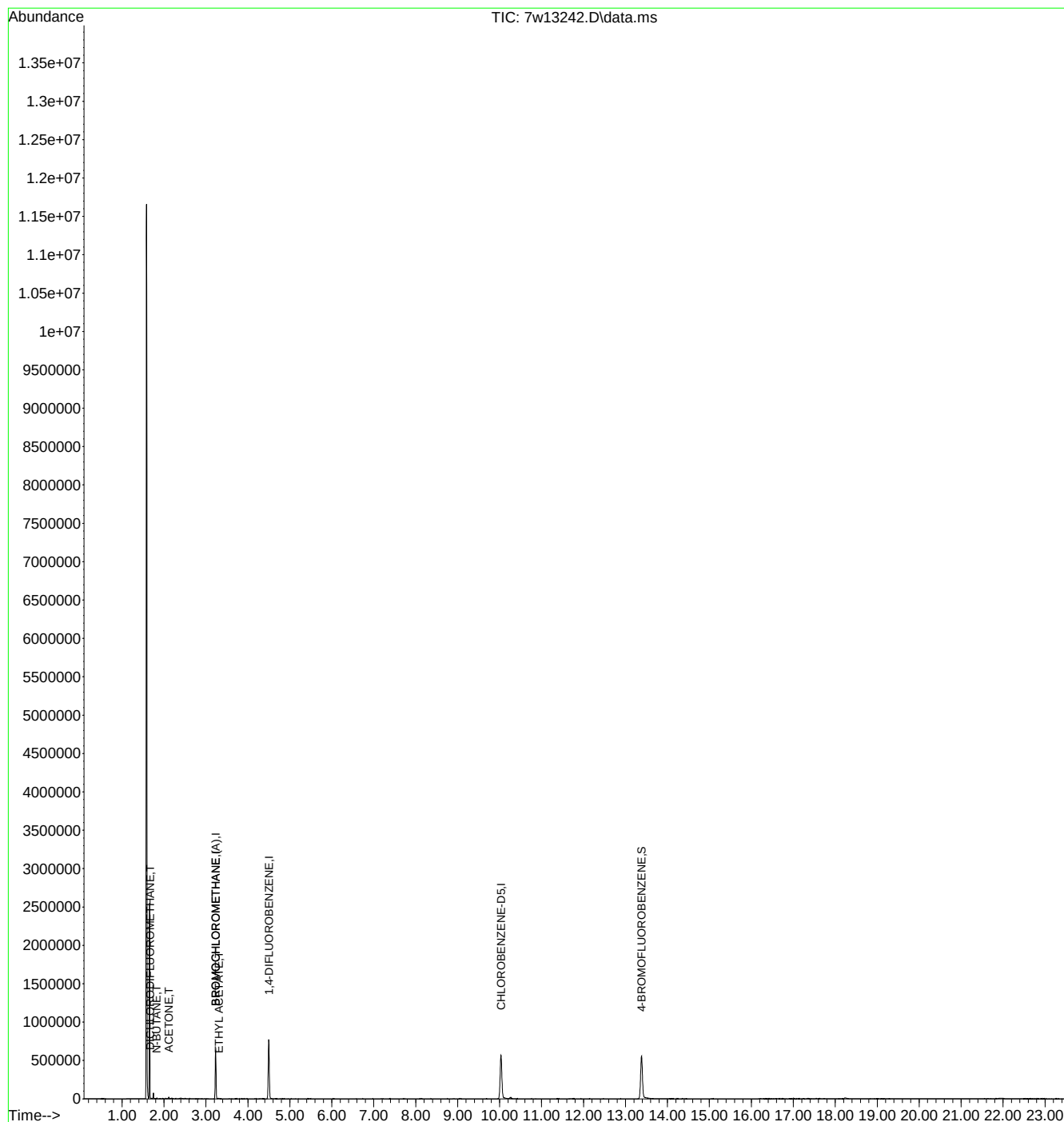
7.1.15
7

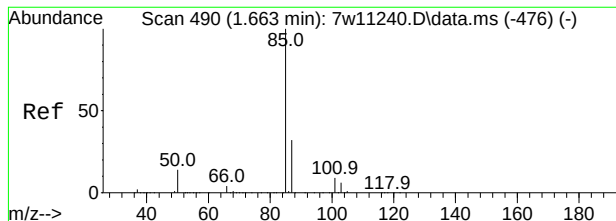


Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13242.D
Acq On : 7 Mar 2025 3:52 am
Operator : williamc
Sample : je5976-13 Inst : MS7W
Misc : MS89870,v7w465,100,,,,,1
ALS Vial : 11 Sample Multiplier: 1

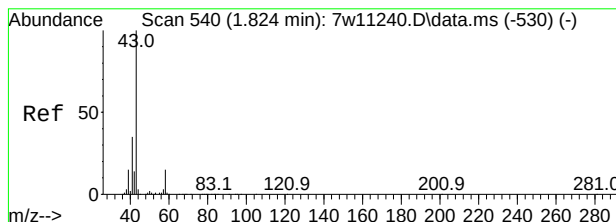
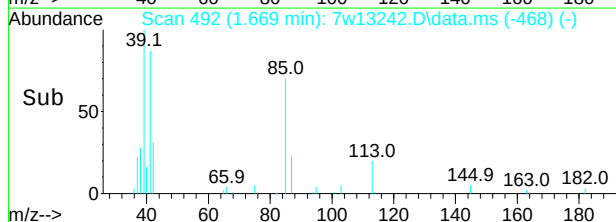
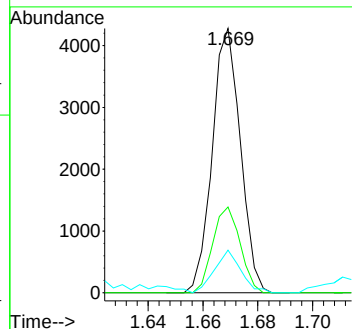
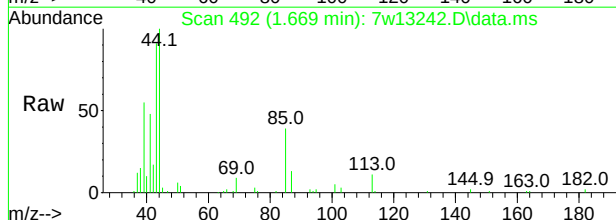
Quant Time: Mar 08 06:32:37 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration





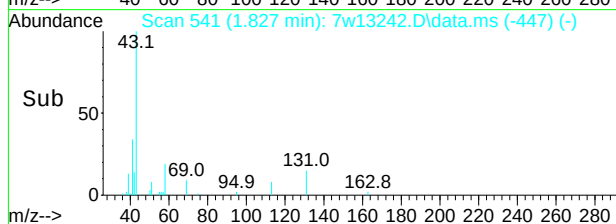
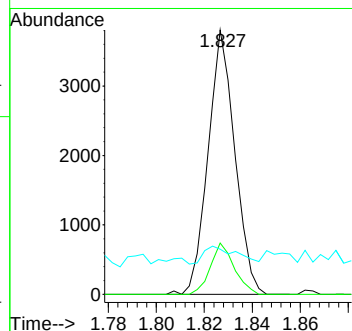
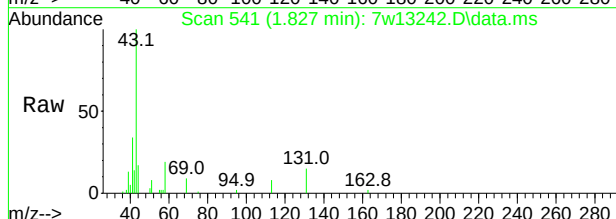
#6
DICHLORODIFLUOROMETHANE
Concen: 0.0953 PPBV
RT: 1.669 min Scan# 492
Delta R.T. 0.006 min
Lab File: 7w13242.D
Acq: 7 Mar 2025 3:52 am

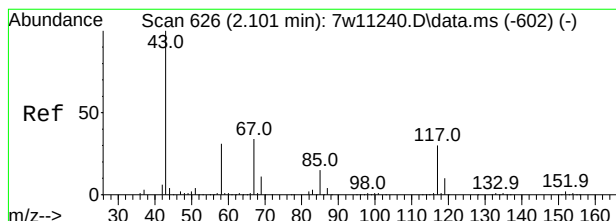
Tgt Ion:	85	Resp:	3052
Ion Ratio	Lower	Upper	
85	100		
87	31.5	22.5	41.7
50	18.5	13.8	25.6



#13
N-BUTANE
Concen: 0.1767 PPBV
RT: 1.827 min Scan# 541
Delta R.T. 0.003 min
Lab File: 7w13242.D
Acq: 7 Mar 2025 3:52 am

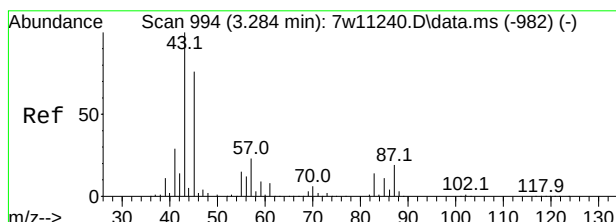
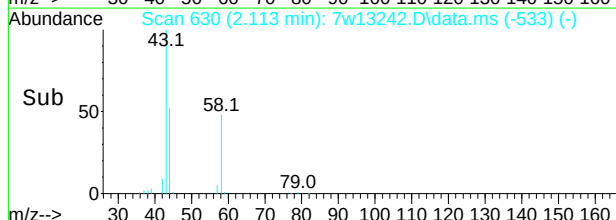
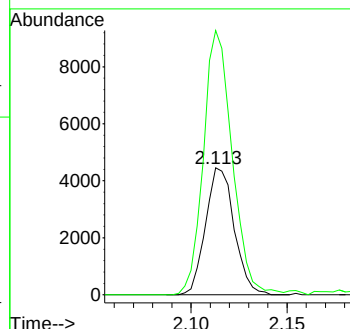
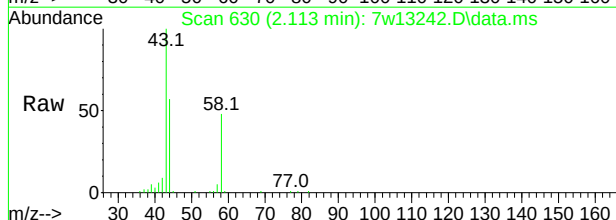
Tgt Ion:	43	Resp:	2945
Ion Ratio	Lower	Upper	
43	100		
58	17.4	10.4	19.2
44	6.5	3.0	5.6#





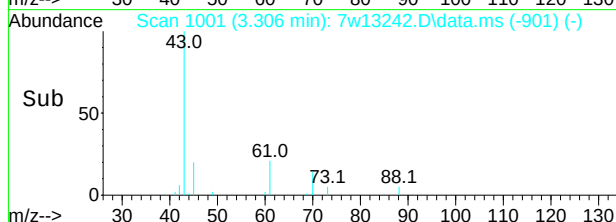
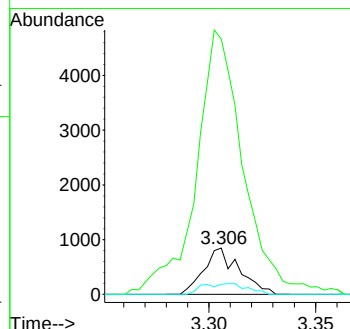
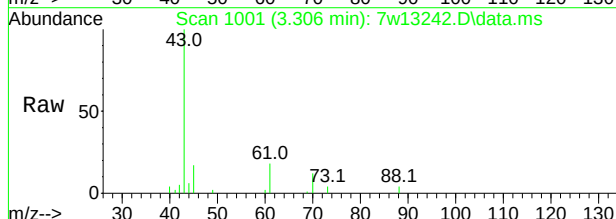
#23
ACETONE
Concen: 0.6199 PPBV
RT: 2.113 min Scan# 630
Delta R.T. 0.012 min
Lab File: 7w13242.D
Acq: 7 Mar 2025 3:52 am

Tgt Ion: 58 Resp: 4628
Ion Ratio Lower Upper
58 100
43 210.4 234.4 435.2#



#44
ETHYL ACETATE
Concen: 0.2402 PPBV
RT: 3.306 min Scan# 1001
Delta R.T. 0.022 min
Lab File: 7w13242.D
Acq: 7 Mar 2025 3:52 am

Tgt Ion: 61 Resp: 974
Ion Ratio Lower Upper
61 100
43 763.6 1005.1 1866.5#
88 29.3 29.3 54.5#



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13243.D
Acq On : 7 Mar 2025 4:32 am
Operator : williamc
Sample : je5976-14 Inst : MS7W
Misc : MS89870,v7w465,100,,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 10 04:37:38 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	129963m	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.528	114	704236	10.00	PPBV	0.03
76) CHLOROBENZENE-D5	10.048	117	671809	10.00	PPBV	0.02
109) BROMOCHLOROMETHANE (A)	3.229	128	129957m	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.389	95	477746	9.80	PPBV	0.00
Target Compounds						
						Qvalue
6) DICHLORODIFLUOROMETHANE	1.640	85	3688	0.1138	PPBV	97
9) FREON 114	1.721	85	7446	0.2897	PPBV	95
23) ACETONE	2.110	58	5097m	0.6750	PPBV	
44) ETHYL ACETATE	3.332	61	6138m	1.4967	PPBV	
96) 1,2,4-TRIMETHYLBENZENE	16.534	105	7550	0.1229	PPBV #	38
108) NAPHTHALENE	18.363	128	10749	0.1432	PPBV	98

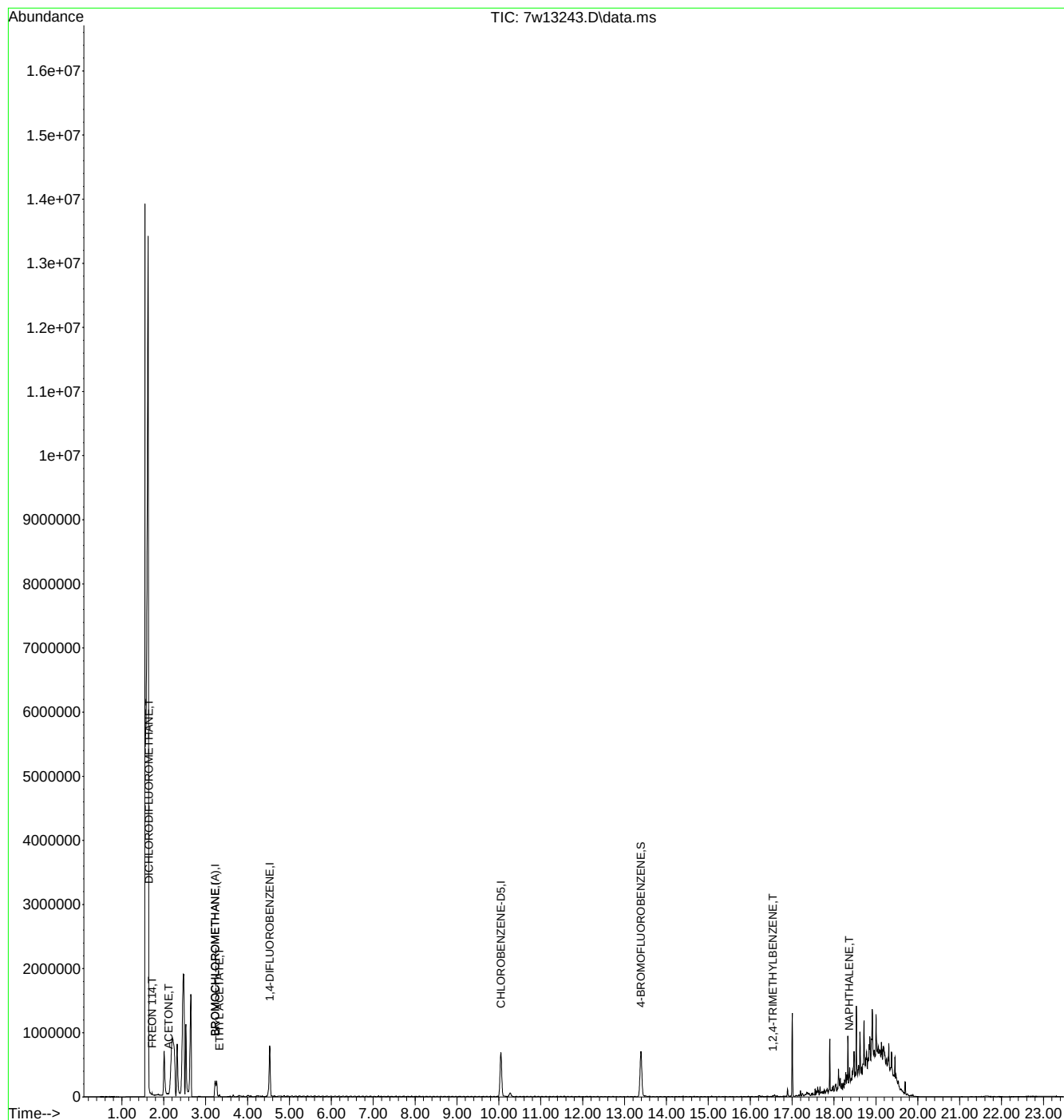
(#) = qualifier out of range (m) = manual integration (+) = signals summed

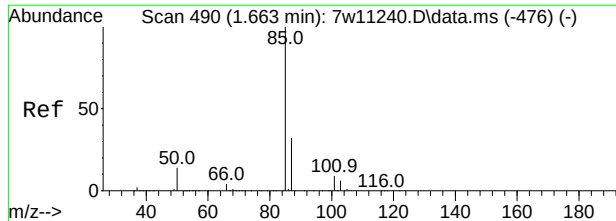
7.1.16
7

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13243.D
Acq On : 7 Mar 2025 4:32 am
Operator : williamc
Sample : je5976-14 Inst : MS7W
Misc : MS89870,v7w465,100,,,,,1
ALS Vial : 12 Sample Multiplier: 1

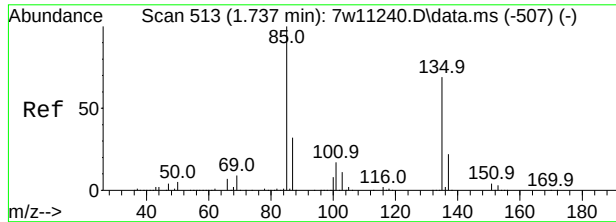
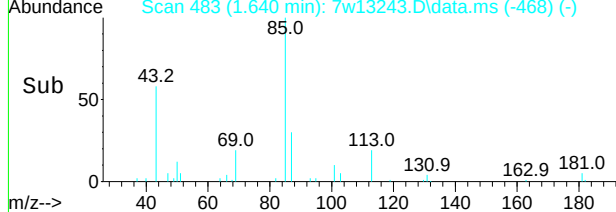
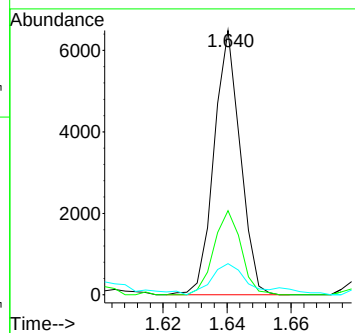
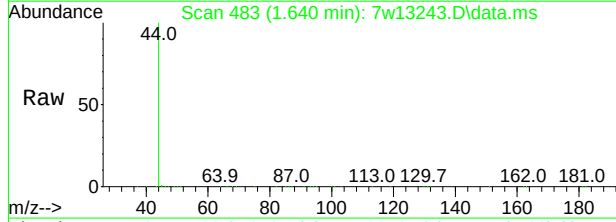
Quant Time: Mar 10 04:37:38 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration





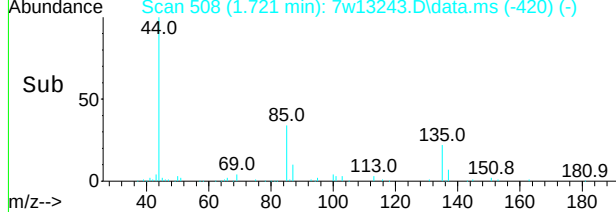
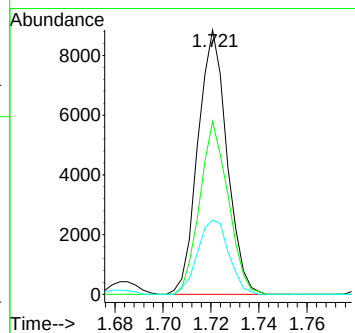
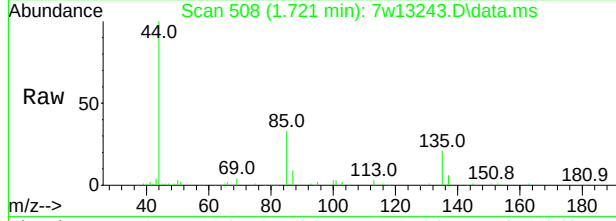
#6
DICHLORODIFLUOROMETHANE
Concen: 0.1138 PPBV
RT: 1.640 min Scan# 483
Delta R.T. -0.023 min
Lab File: 7w13243.D
Acq: 7 Mar 2025 4:32 am

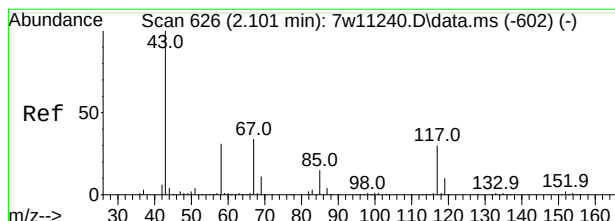
Tgt	Ion	85	Resp:	3688
	Ratio	100	Lower	Upper
	85	100		
	87	33.1	22.5	41.7
	50	17.8	13.8	25.6



#9
FREON 114
Concen: 0.2897 PPBV
RT: 1.721 min Scan# 508
Delta R.T. -0.016 min
Lab File: 7w13243.D
Acq: 7 Mar 2025 4:32 am

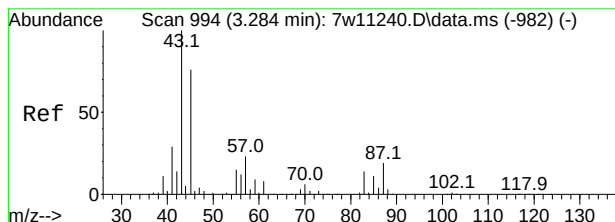
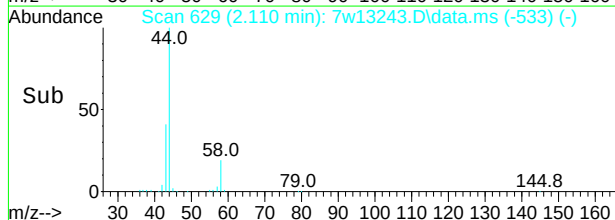
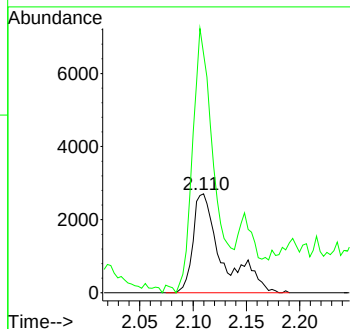
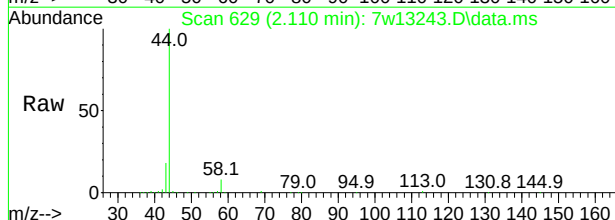
Tgt	Ion	85	Resp:	7446
	Ratio	100	Lower	Upper
	85	100		
	135	64.1	48.6	90.2
	87	30.3	22.4	41.6





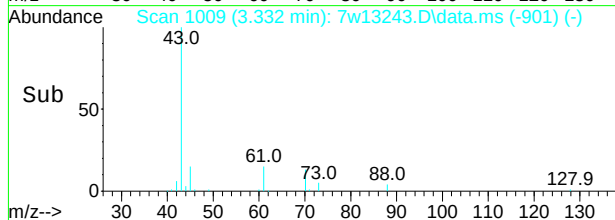
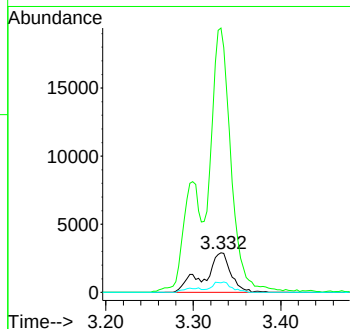
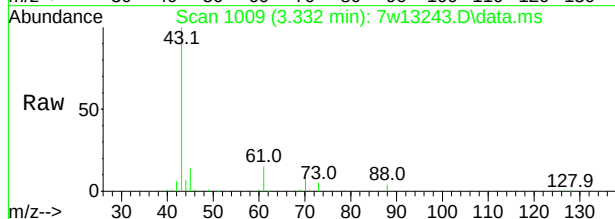
#23
ACETONE
Concen: 0.6750 PPBV m
RT: 2.110 min Scan# 629
Delta R.T. 0.009 min
Lab File: 7w13243.D
Acq: 7 Mar 2025 4:32 am

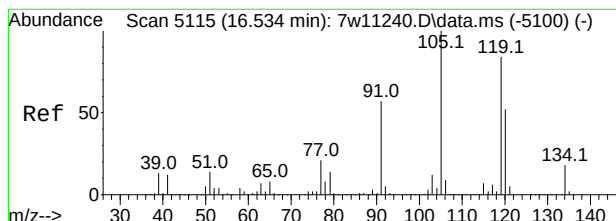
Tgt Ion: 58 Resp: 5097
Ion Ratio Lower Upper
58 100
43 194.7 234.4 435.2#



#44
ETHYL ACETATE
Concen: 1.4967 PPBV m
RT: 3.332 min Scan# 1009
Delta R.T. 0.048 min
Lab File: 7w13243.D
Acq: 7 Mar 2025 4:32 am

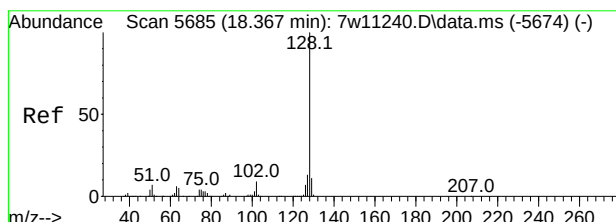
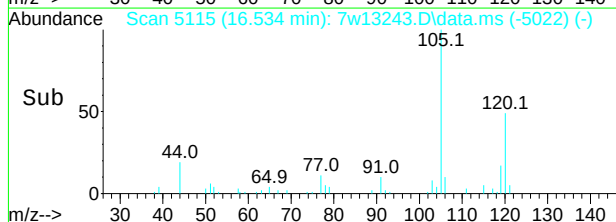
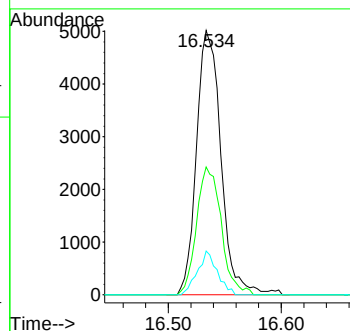
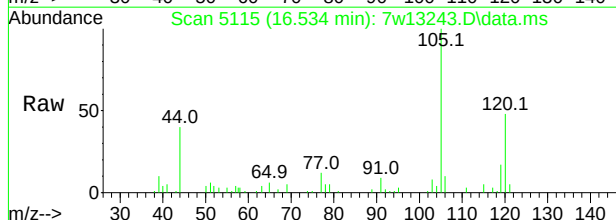
Tgt Ion: 61 Resp: 6138
Ion Ratio Lower Upper
61 100
43 175.8 1005.1 1866.5#
88 6.8 29.3 54.5#





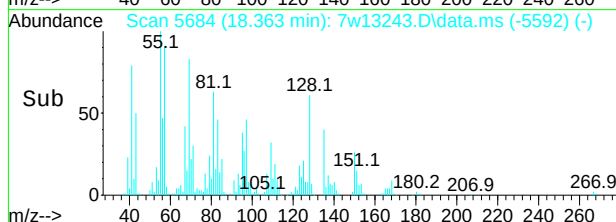
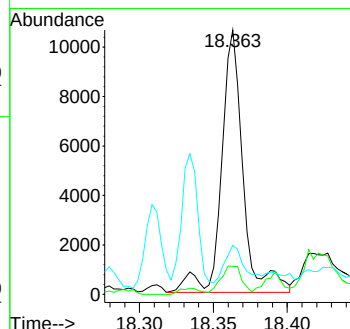
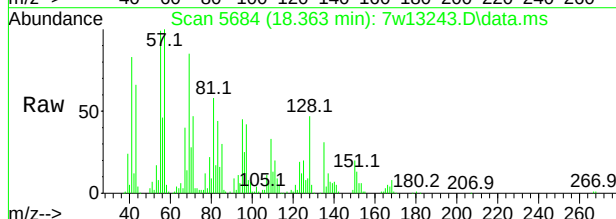
#96
1,2,4-TRIMETHYLBENZENE
Concen: 0.1229 PPBV
RT: 16.534 min Scan# 5115
Delta R.T. -0.000 min
Lab File: 7w13243.D
Acq: 7 Mar 2025 4:32 am

Tgt Ion	Ratio	Lower	Upper
105	100		
120	48.5	38.8	72.0
119	13.3	74.3	137.9#



#108
NAPHTHALENE
Concen: 0.1432 PPBV
RT: 18.363 min Scan# 5684
Delta R.T. -0.004 min
Lab File: 7w13243.D
Acq: 7 Mar 2025 4:32 am

Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.8	7.6	14.2
127	12.8	8.9	16.5



Manual Integration Approval Summary

Sample Number: JE5976-14

Method: TO-15

Lab FileID: 7W13243.D

Analyst approved: 03/10/25 00:40 Lucky Carandang

Injection Time: 03/07/25 04:32

Supervisor approved: 03/10/25 12:47 Kanya Veerawat

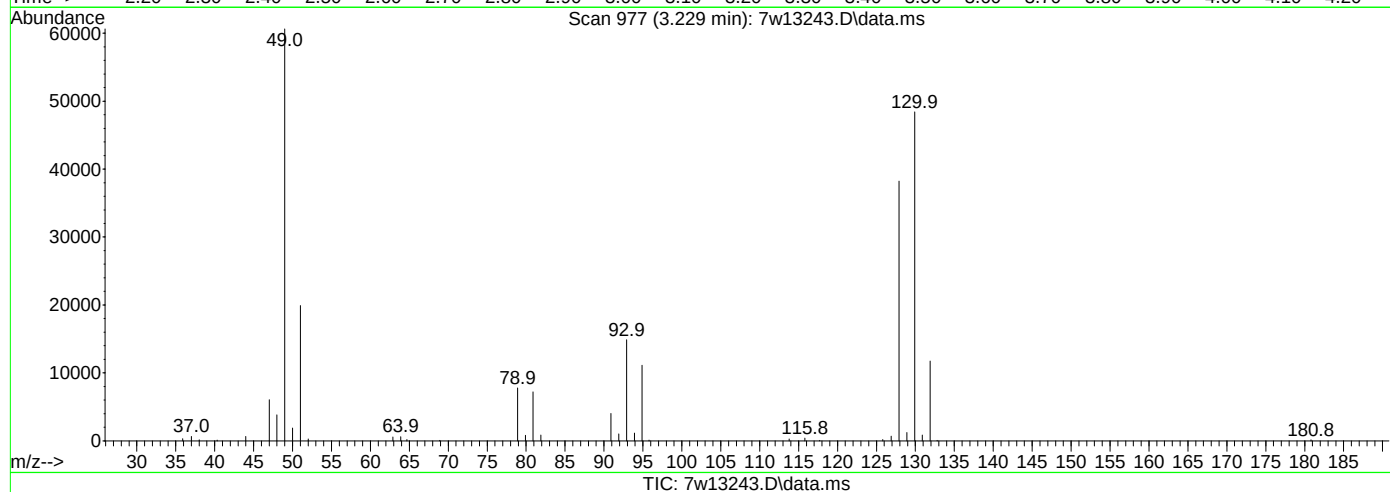
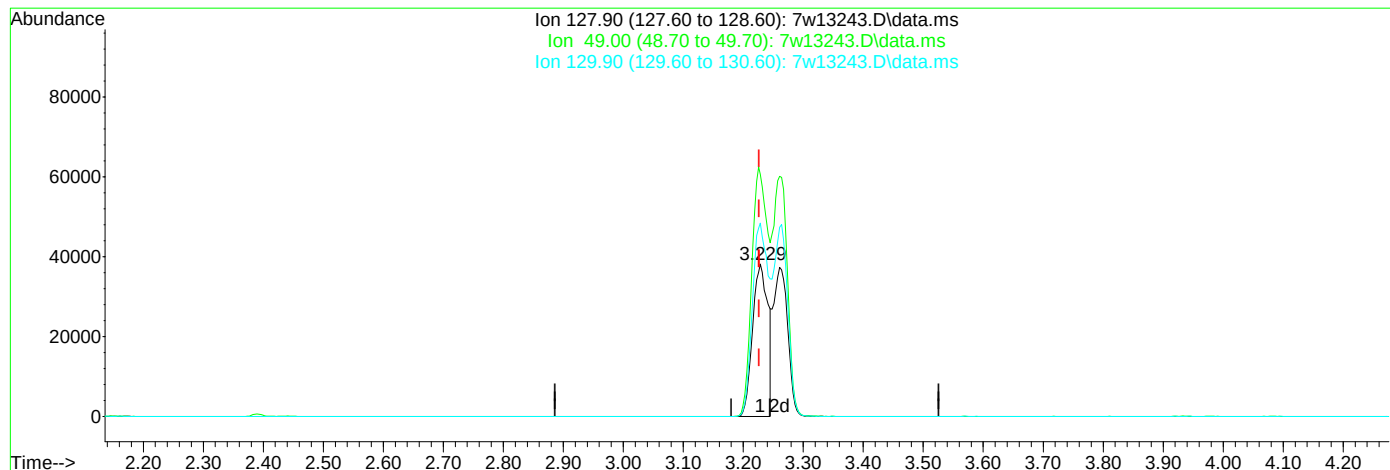
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetone (2-Propanone)	67-64-1		2.11	Split peak
Bromochloromethane	74-97-5		3.23	Split peak
Ethyl Acetate	141-78-6		3.33	Split peak

7.1.16.1
7

Quantitation Report (Qedit)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
 Data File : 7w13243.D
 Acq On : 7 Mar 2025 4:32 am
 Operator : williamc
 Sample : je5976-14 Inst : MS7W
 Misc : MS89870,v7w465,100,,,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 08 06:32:55 2025
 Quant Method : C:\msdchem\1\methods\M7W405.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Sun Dec 29 19:41:17 2024
 Response via : Initial Calibration



(1) BROMOCHLOROMETHANE (I)

3.229min (+0.003) 10.00PPBV

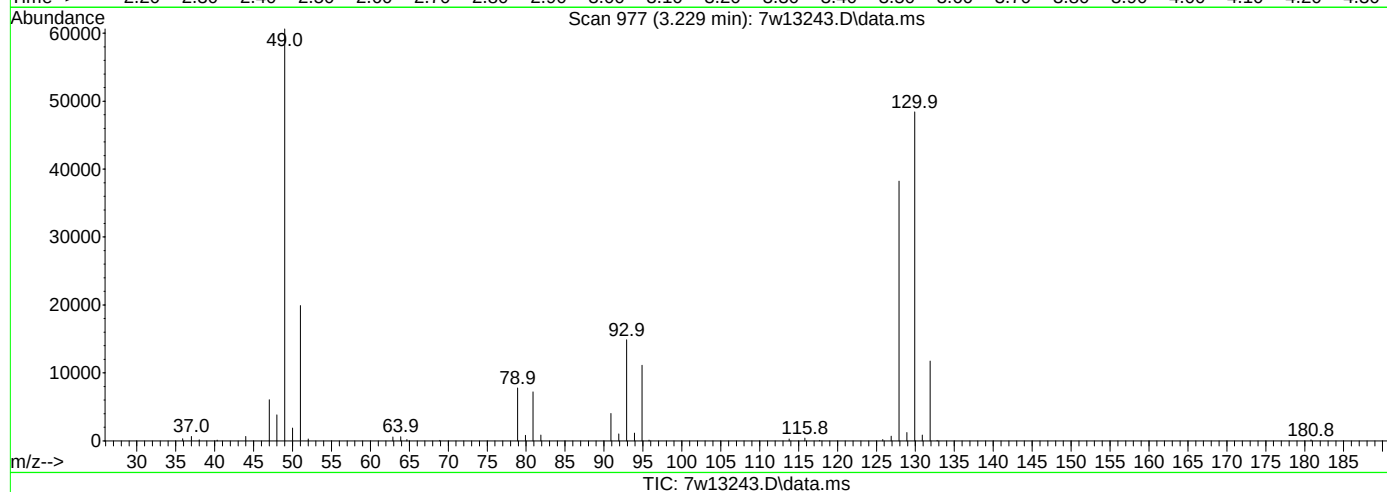
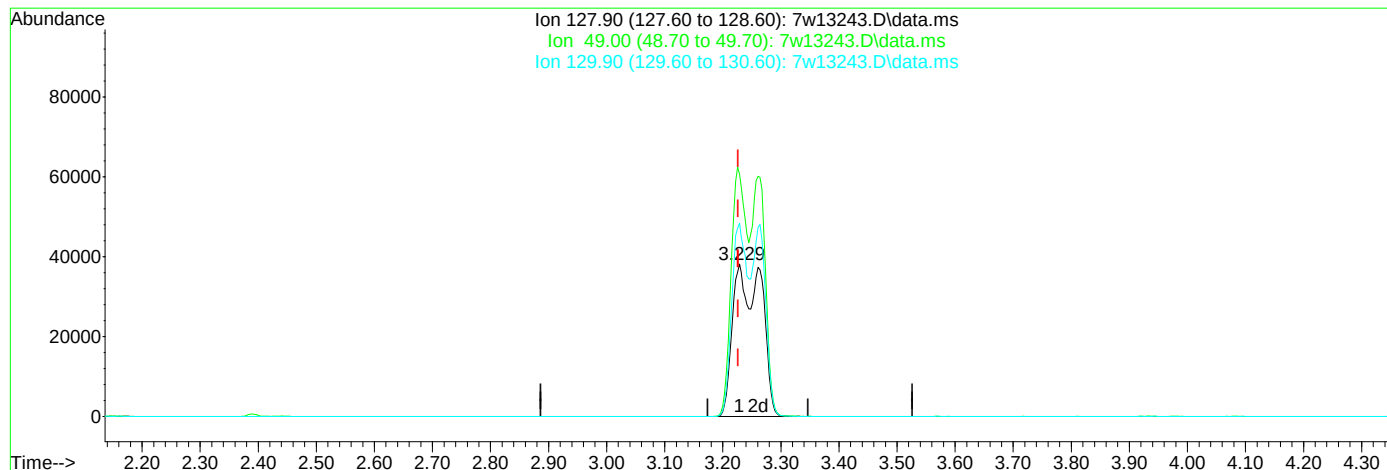
response 67651

Ion	Exp%	Act%
127.90	100	100
49.00	176.70	169.80
129.90	127.70	129.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
 Data File : 7w13243.D
 Acq On : 7 Mar 2025 4:32 am
 Operator : williamc
 Sample : je5976-14
 Misc : MS89870,v7w465,100,,,1
 ALS Vial : 12 Sample Multiplier: 1
 Inst : MS7W

Quant Time: Mar 08 06:32:55 2025
 Quant Method : C:\msdchem\1\methods\M7W405.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Sun Dec 29 19:41:17 2024
 Response via : Initial Calibration



(1) BROMOCHLOROMETHANE (I)

3.229min (+0.003) 10.00PPBV m

response 129963

Ion	Exp%	Act%

127.90	100	100

49.00	176.70	88.39#

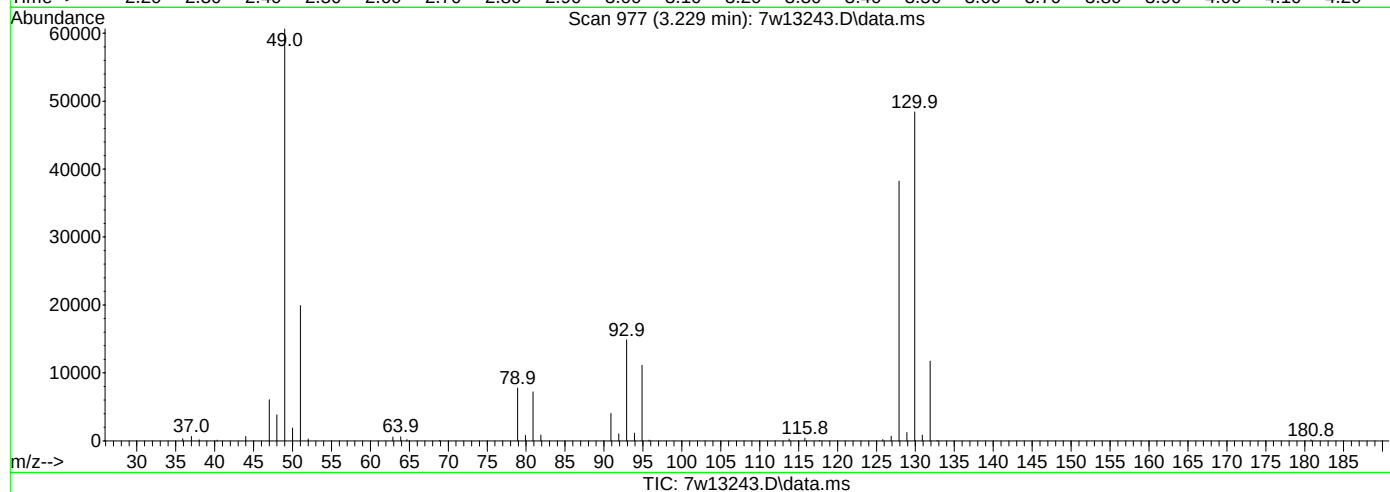
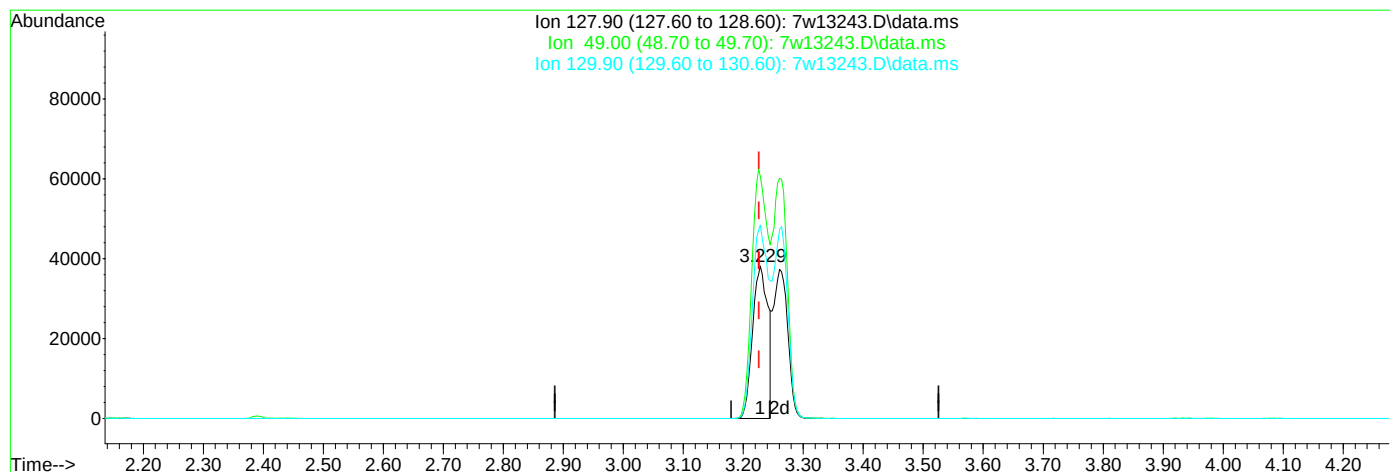
129.90	127.70	67.27#

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
 Data File : 7w13243.D
 Acq On : 7 Mar 2025 4:32 am
 Operator : williamc
 Sample : je5976-14 Inst : MS7W
 Misc : MS89870,v7w465,100,,,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 08 06:32:55 2025
 Quant Method : C:\msdchem\1\methods\M7W405.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Sun Dec 29 19:41:17 2024
 Response via : Initial Calibration



(109) BROMOCHLOROMETHANE (A) (I)

3.229min (+0.003) 10.00PPBV

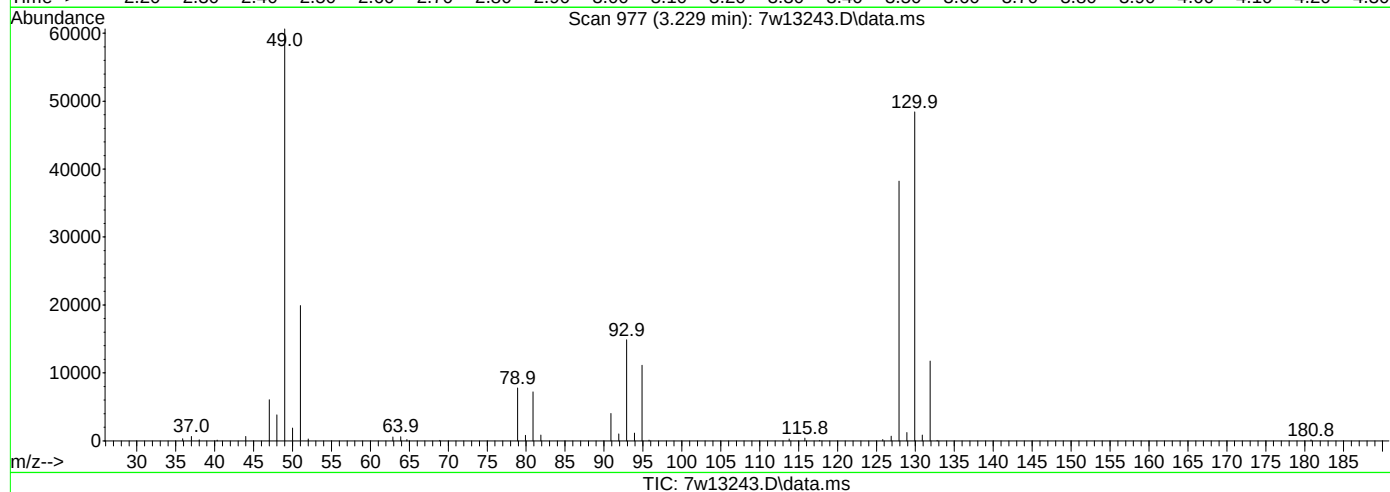
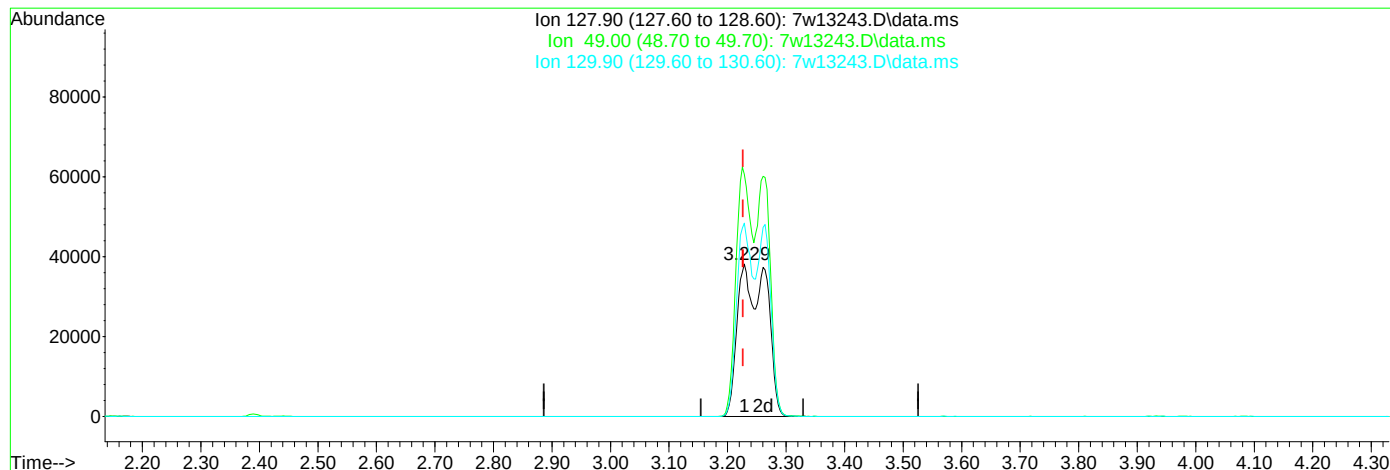
response 67651

Ion	Exp%	Act%
127.90	100	100
49.00	176.70	169.80
129.90	127.70	129.24
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13243.D
Acq On : 7 Mar 2025 4:32 am
Operator : williamc
Sample : je5976-14
Misc : MS89870,v7w465,100,,,1
ALS Vial : 12 Sample Multiplier: 1
Inst : MS7W

Quant Time: Mar 08 06:32:55 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



(109) BROMOCHLOROMETHANE (A) (I)

3.229min (+0.003) 10.00PPBV m

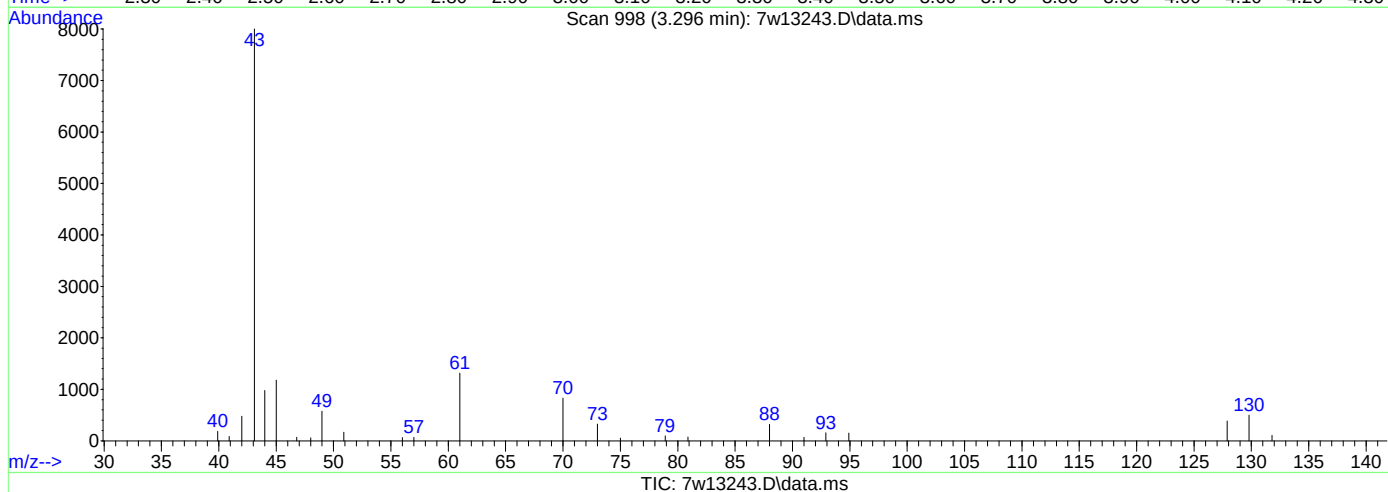
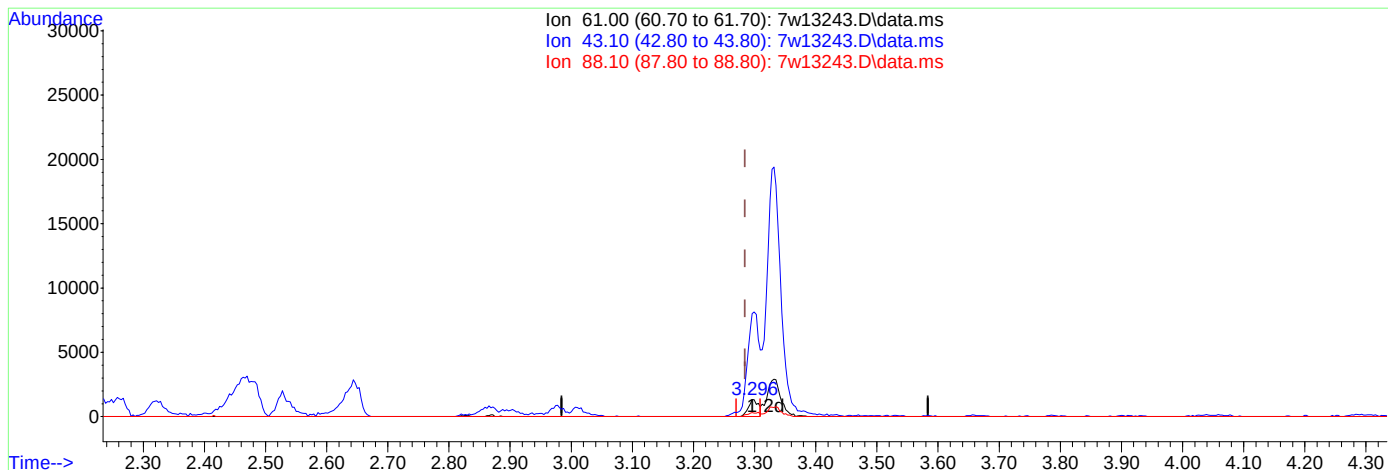
response 129957

Ion	Exp%	Act%
127.90	100	100
49.00	176.70	88.39#
129.90	127.70	67.28#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : G:\Dayton\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
 Data File : 7w13243.D
 Acq On : 7 Mar 2025 4:32 am
 Operator : williamc
 Sample : je5976-14
 Misc : MS89870,v7w465,100,,,1
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 01:29:35 2025
 Quant Method : C:\msdchem\1\methods\M7W405.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Sun Dec 29 19:41:17 2024
 Response via : Initial Calibration



(44) ETHYL ACETATE (T)

3.296min (+0.012) 0.37PPBV

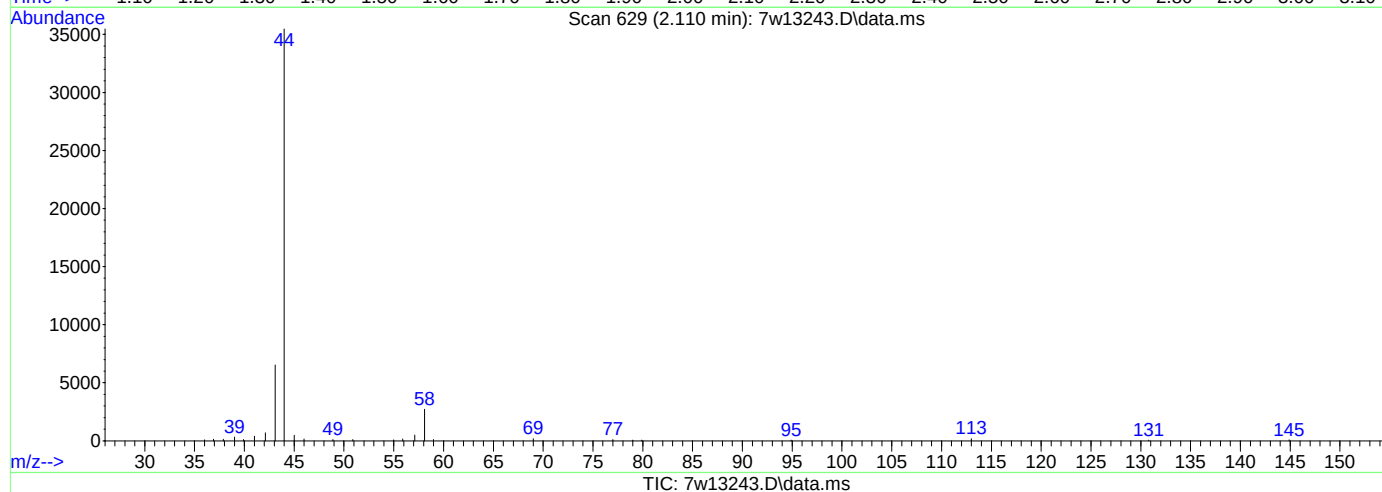
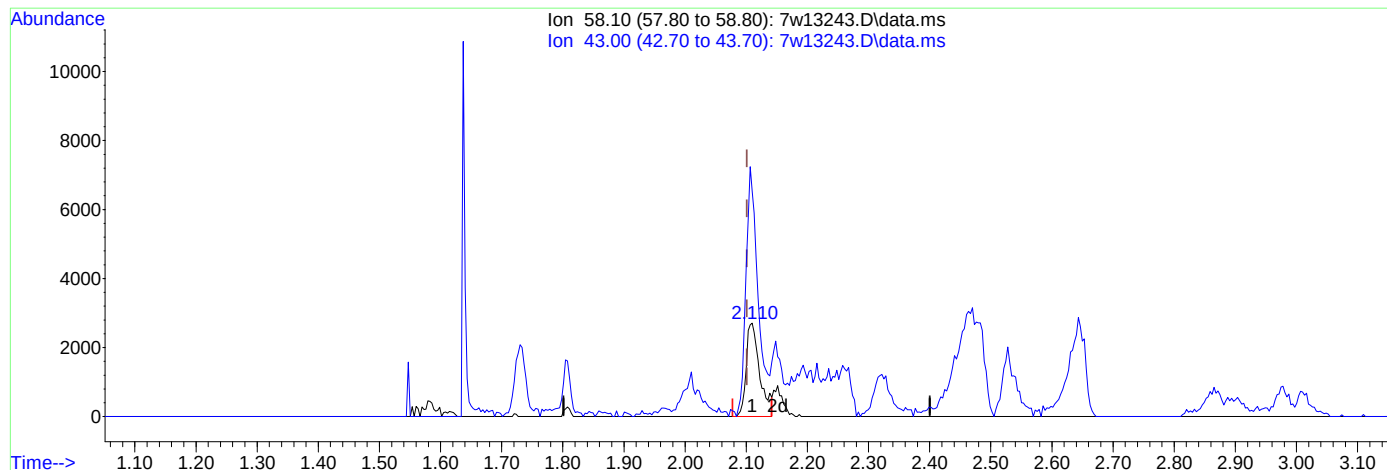
response 1519

Ion	Exp%	Act%
61.00	100	100
43.10	1435.80	710.53#
88.10	41.90	27.65#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : G:\Dayton\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13243.D
Acq On : 7 Mar 2025 4:32 am
Operator : williamc
Sample : je5976-14
Misc : MS89870,v7w465,100,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 09 01:29:35 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



(23) ACETONE (T)

2.110min (+0.009) 0.56PPBV

response 4192

Ion	Exp%	Act%
58.10	100	100
43.00	334.80	236.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\
 Data File : 5w57187.D
 Acq On : 5 Mar 2025 5:31 am
 Operator : thomash
 Sample : je5976-15 Inst : GCMS5W
 Misc : MS89870,V5W2194,400,,,1
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 06 06:49:48 2025
 Quant Method : C:\msdchem\1\methods\M5w2187.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Mon Feb 24 14:22:14 2025
 Response via : Initial Calibration

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

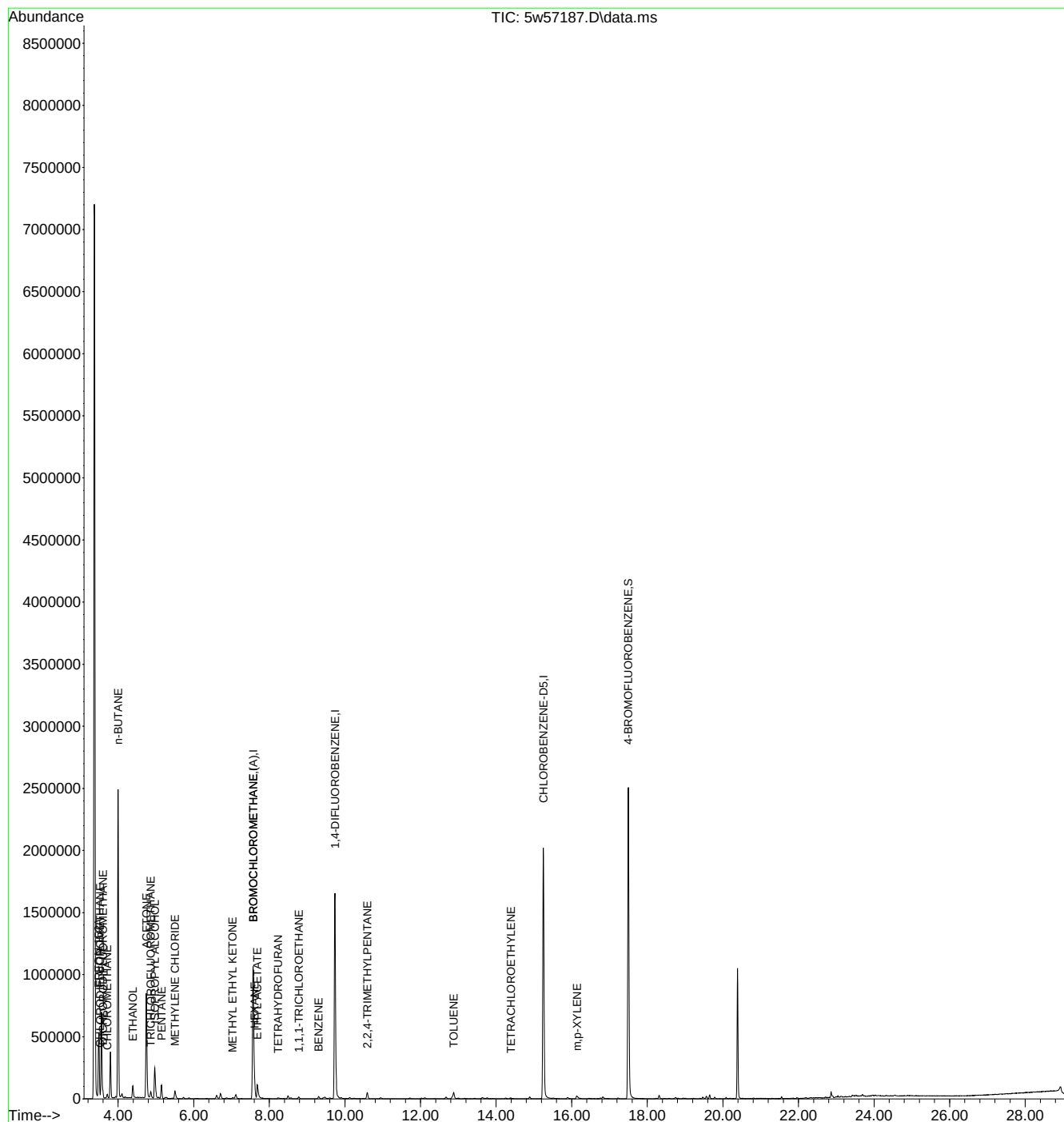
Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	350118	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1669747	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	815676	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.571	128	350118	10.00	PPBV	# 0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.494	95	1091287	10.38	PPBV	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	= 103.80%		
Target Compounds						Qvalue
3) FREON 152A	3.484	65	227123	8.3786	PPBV	97
4) CHLORODIFLUOROMETHANE	3.515	67	2560	0.2076	PPBV	88
6) DICHLORODIFLUOROMETHANE	3.595	85	54187	0.4890	PPBV	100
10) CHLOROMETHANE	3.711	52	8927	0.6333	PPBV	97
13) n-BUTANE	3.998	43	2168101	47.0608	PPBV	97
21) TRICHLOROFLUOROMETHANE	4.861	101	40834	0.3757	PPBV	98
22) ISOPROPYL ALCOHOL	4.971	45	358227	4.9831	PPBV	95
23) ACETONE	4.745	58	242008	13.4451	PPBV #	1
24) PENTANE	5.148	42	46273	1.4124	PPBV	98
28) ETHANOL	4.390	45	126819	7.0908	PPBV	97
31) METHYLENE CHLORIDE	5.503	84	28422	0.8406	PPBV	98
37) TETRAHYDROFURAN	8.232	72	2598	0.1875	PPBV #	71
38) HEXANE	7.608	57	64919	1.0902	PPBV #	78
41) METHYL ETHYL KETONE	7.027	72	4251	0.3033	PPBV #	83
44) ETHYL ACETATE	7.681	61	26066	2.4161	PPBV #	73
48) 1,1,1-TRICHLOROETHANE	8.782	97	11844	0.1398	PPBV	96
52) BENZENE	9.302	78	20730	0.1792	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	10.587	57	53506	0.2941	PPBV	90
66) TOLUENE	12.875	92	30822	0.3589	PPBV	97
73) TETRACHLOROETHYLENE	14.386	164	2420	0.0368	PPBV	91
80) m, p-XYLENE	16.136	106	14797	0.2070	PPBV	96

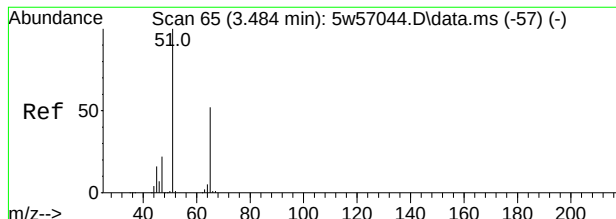
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\
Data File : 5w57187.D
Acq On : 5 Mar 2025 5:31 am
Operator : thomash
Sample : je5976-15 Inst : GCMS5W
Misc : MS89870,V5W2194,400,,,1
ALS Vial : 9 Sample Multiplier: 1

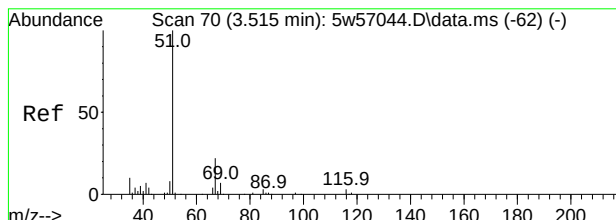
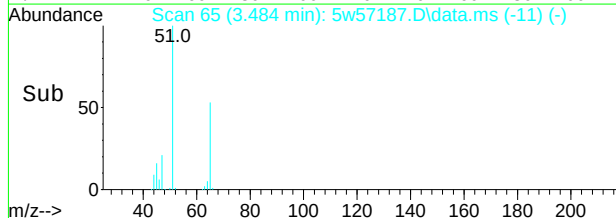
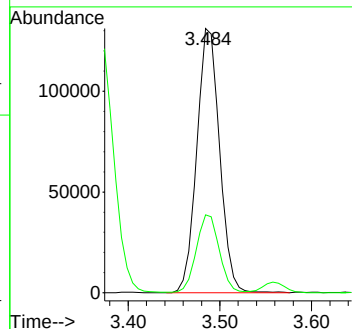
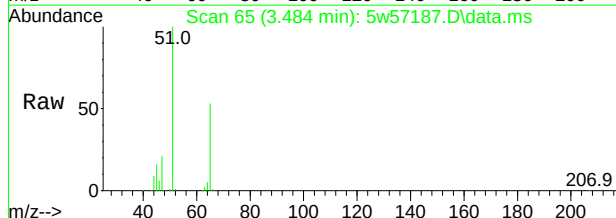
Quant Time: Mar 06 06:49:48 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration





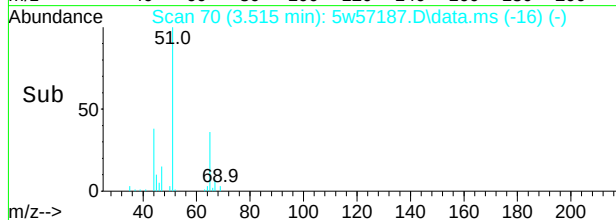
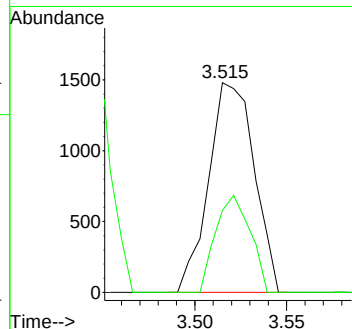
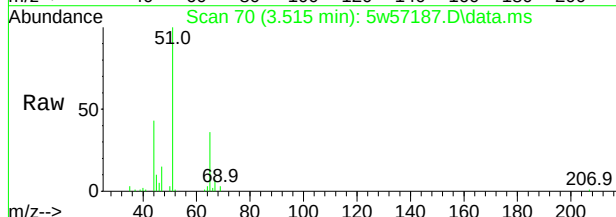
#3
FREON 152A
Concen: 8.3786 PPBV
RT: 3.484 min Scan# 65
Delta R.T. 0.000 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

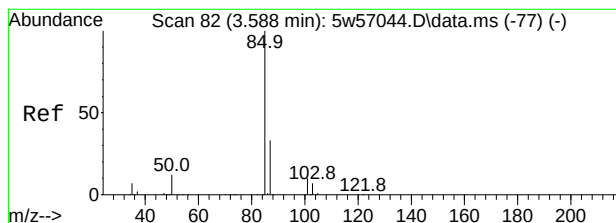
Tgt Ion: 65 Resp: 227123
Ion Ratio Lower Upper
65 100
45 29.8 1.3 61.3



#4
CHLORODIFLUOROMETHANE
Concen: 0.2076 PPBV
RT: 3.515 min Scan# 70
Delta R.T. -0.000 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

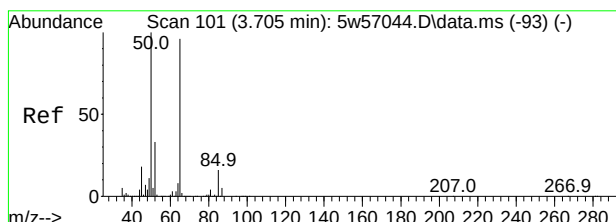
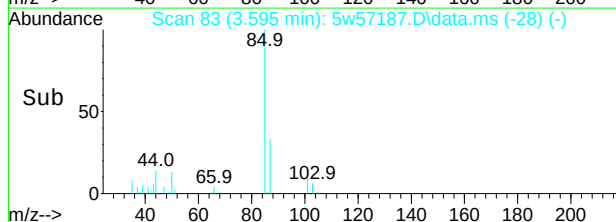
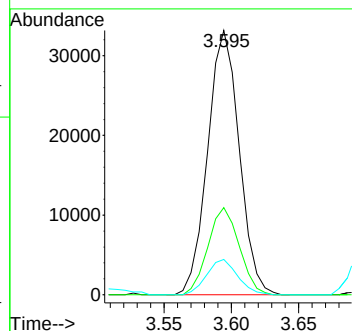
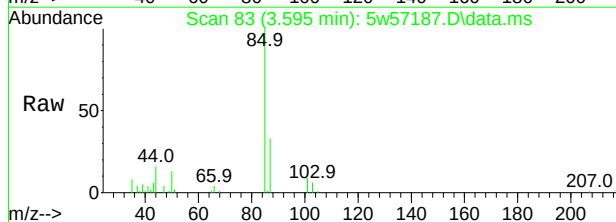
Tgt Ion: 67 Resp: 2560
Ion Ratio Lower Upper
67 100
69 39.0 2.3 62.3





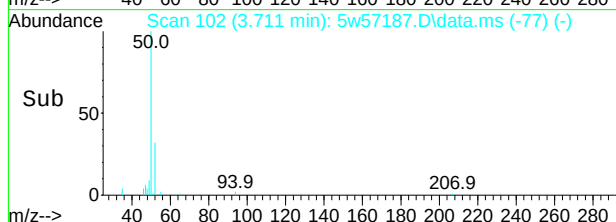
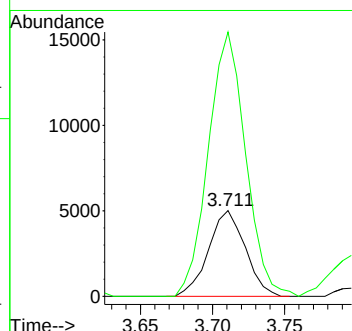
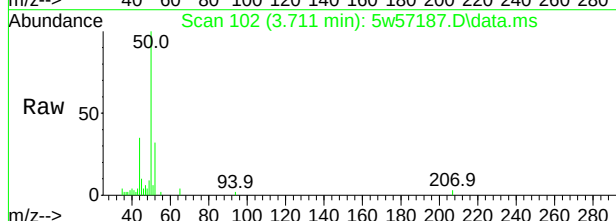
#6
DICHLORODIFLUOROMETHANE
Concen: 0.4890 PPBV
RT: 3.595 min Scan# 83
Delta R.T. 0.007 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

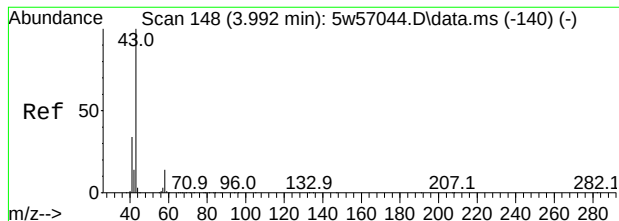
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.6	2.7	62.7
50	13.2	0.0	42.6



#10
CHLOROMETHANE
Concen: 0.6333 PPBV
RT: 3.711 min Scan# 102
Delta R.T. 0.006 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

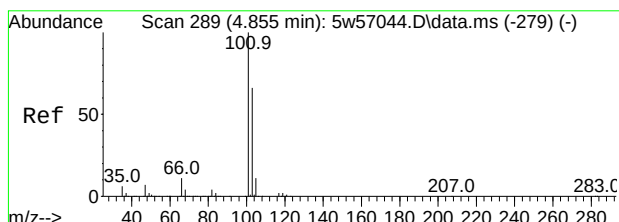
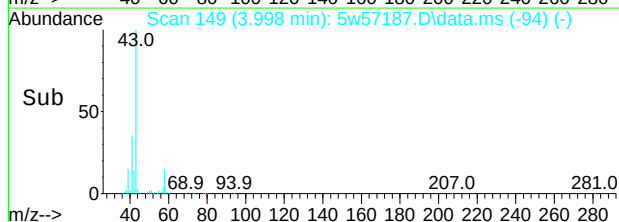
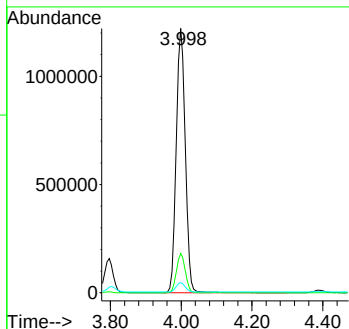
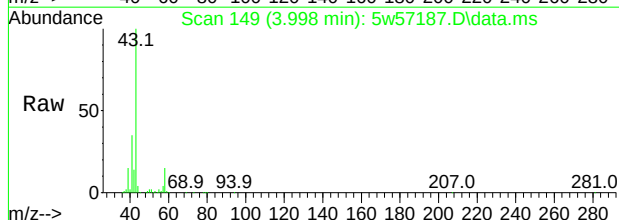
Tgt Ion	Ratio	Lower	Upper
52	100		
50	305.6	269.7	329.7





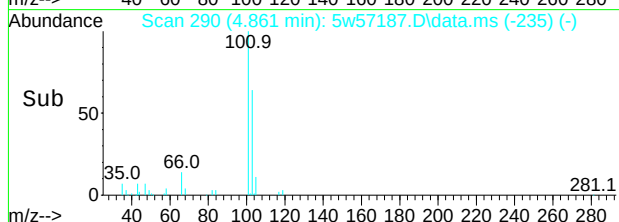
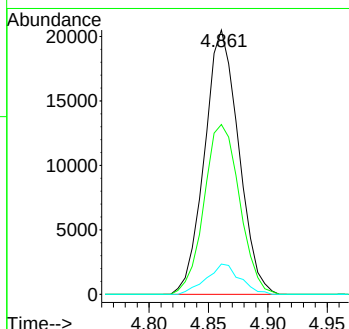
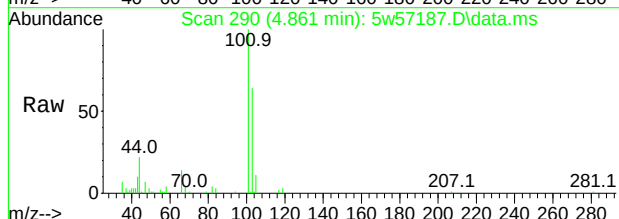
#13
n-BUTANE
Concen: 47.0608 PPBV
RT: 3.998 min Scan# 149
Delta R.T. 0.006 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

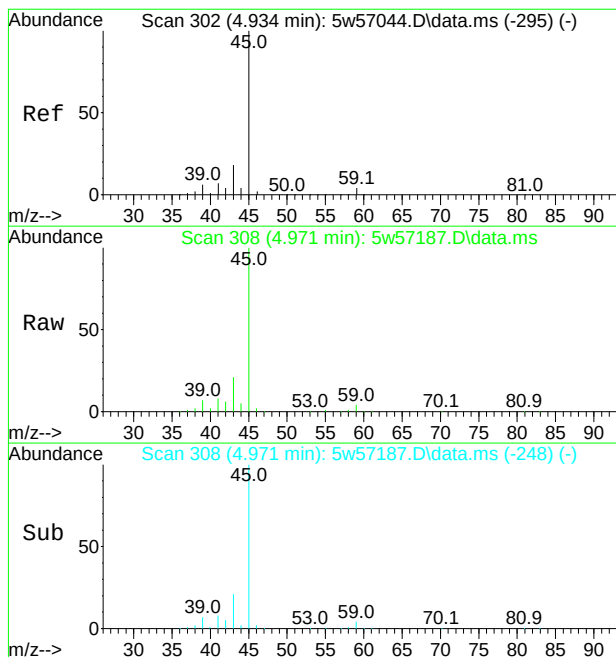
Tgt Ion: 43 Resp: 2168101
Ion Ratio Lower Upper
43 100
58 14.5 0.0 43.8
44 3.5 0.0 35.5



#21
TRICHLOROFLUOROMETHANE
Concen: 0.3757 PPBV
RT: 4.861 min Scan# 290
Delta R.T. 0.006 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

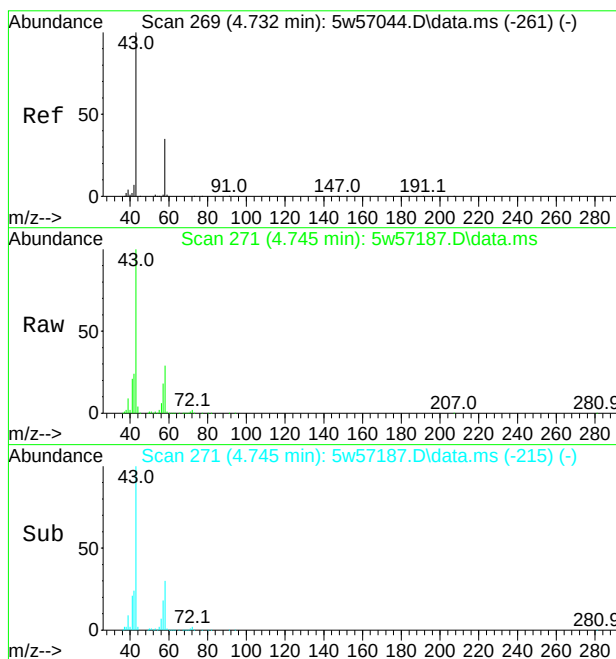
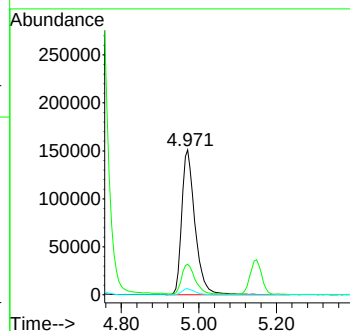
Tgt Ion: 101 Resp: 40834
Ion Ratio Lower Upper
101 100
103 67.0 35.5 95.5
105 11.3 0.0 40.8





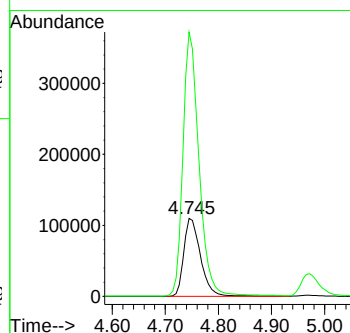
#22
ISOPROPYL ALCOHOL
Concen: 4.9831 PPBV
RT: 4.971 min Scan# 308
Delta R.T. 0.037 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

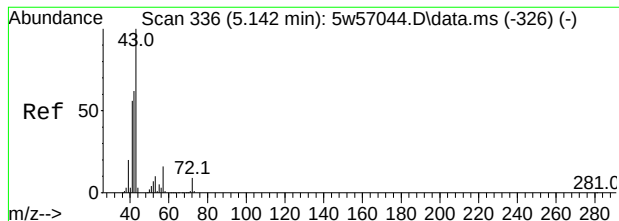
Tgt	Ion	Ratio	Lower	Upper
45	100			
43	21.1	0.0	48.5	
59	4.3	0.0	34.2	



#23
ACETONE
Concen: 13.4451 PPBV
RT: 4.745 min Scan# 271
Delta R.T. 0.013 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

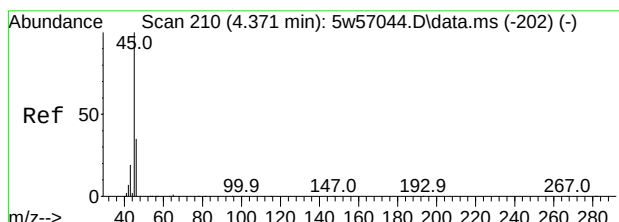
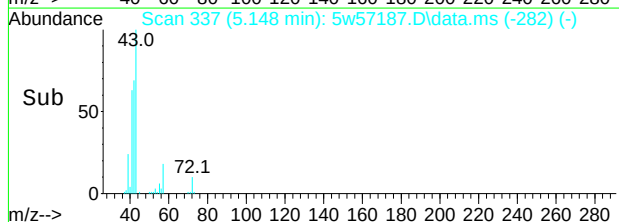
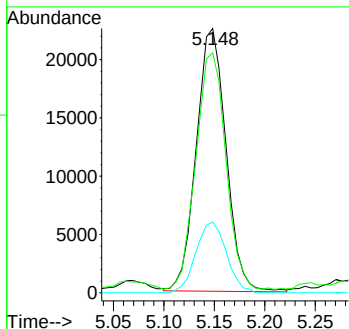
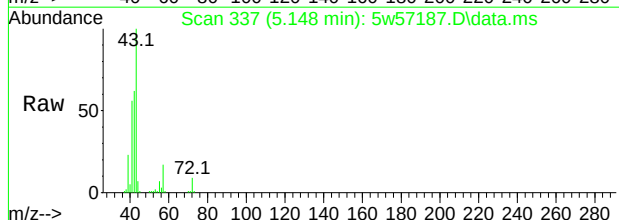
Tgt	Ion	Ratio	Lower	Upper
58	100			
43	322.9	0.0	32.7#	





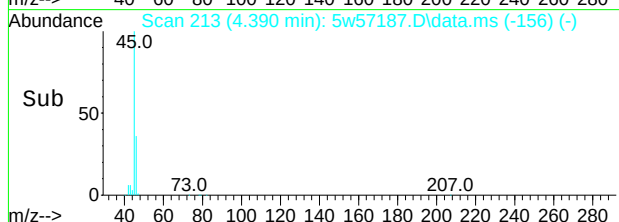
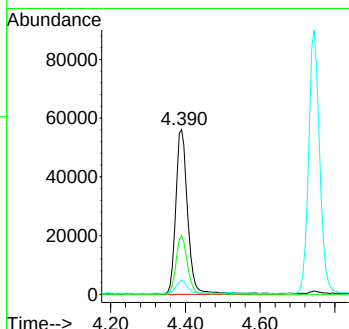
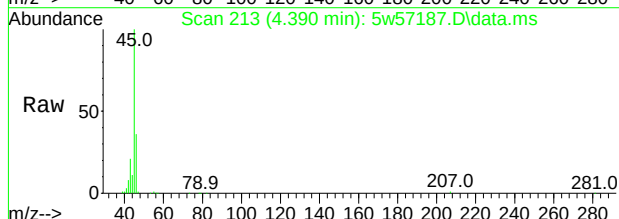
#24
PENTANE
Concen: 1.4124 PPBV
RT: 5.148 min Scan# 337
Delta R.T. 0.006 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

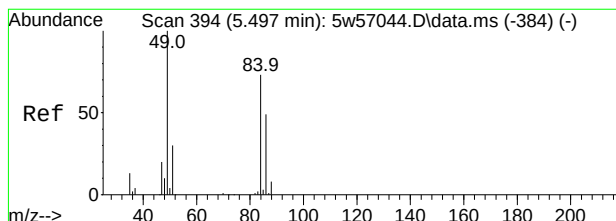
Tgt Ion: 42 Resp: 46273
Ion Ratio Lower Upper
42 100
41 90.4 62.9 122.9
57 27.6 0.0 57.4



#28
ETHANOL
Concen: 7.0908 PPBV
RT: 4.390 min Scan# 213
Delta R.T. 0.019 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

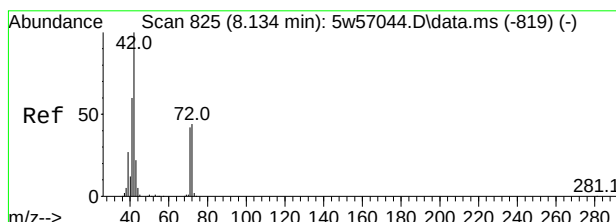
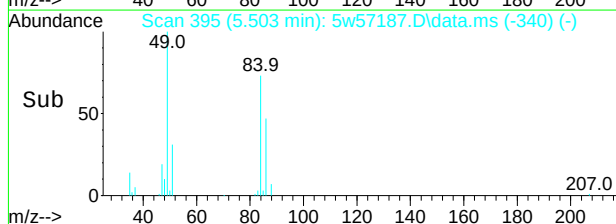
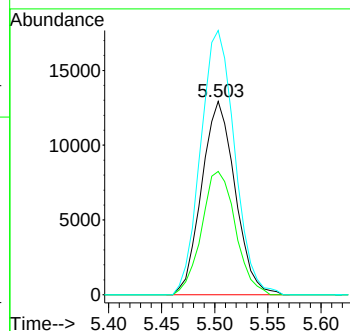
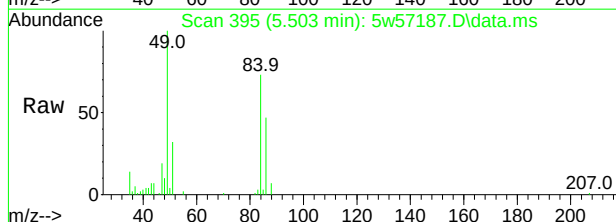
Tgt Ion: 45 Resp: 126819
Ion Ratio Lower Upper
45 100
46 33.5 5.4 65.4
42 7.4 0.0 37.7





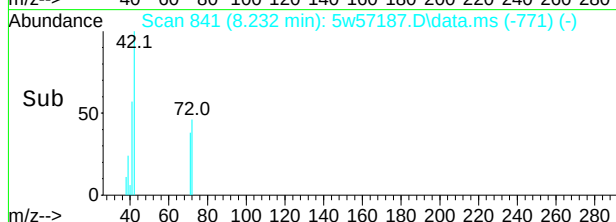
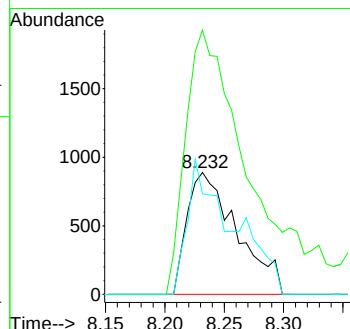
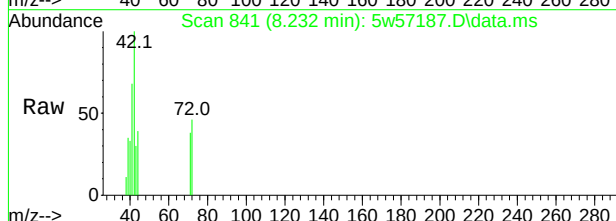
#31
METHYLENE CHLORIDE
Concen: 0.8406 PPBV
RT: 5.503 min Scan# 395
Delta R.T. 0.006 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

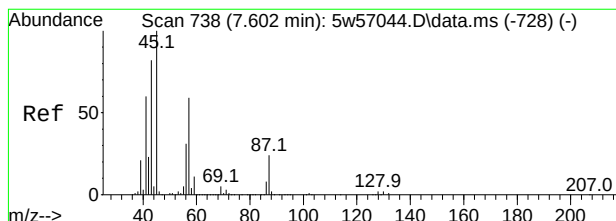
Tgt Ion: 84 Resp: 28422
Ion Ratio Lower Upper
84 100
86 64.4 36.1 96.1
49 138.9 106.2 166.2



#37
TETRAHYDROFURAN
Concen: 0.1875 PPBV
RT: 8.232 min Scan# 841
Delta R.T. 0.098 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

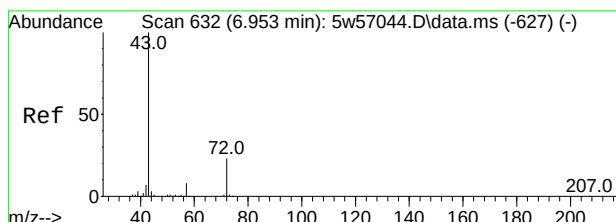
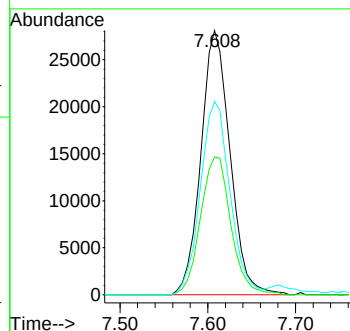
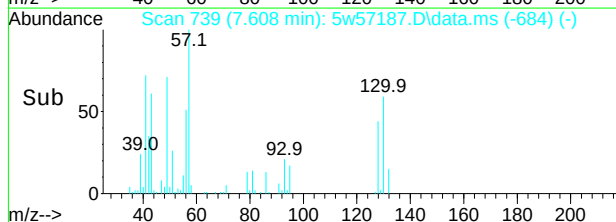
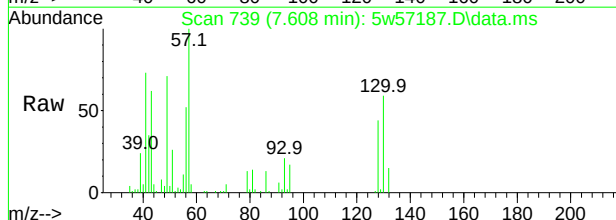
Tgt Ion: 72 Resp: 2598
Ion Ratio Lower Upper
72 100
42 293.8 197.6 257.6#
71 101.4 69.0 129.0





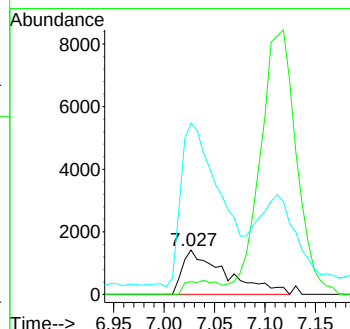
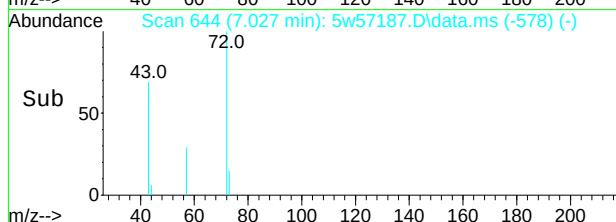
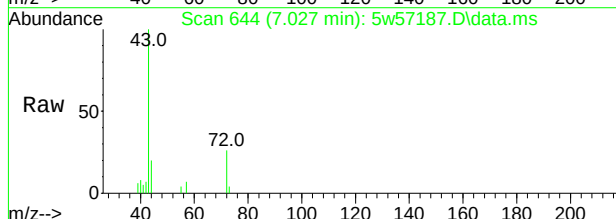
#38
 HEXANE
 Concen: 1.0902 PPBV
 RT: 7.608 min Scan# 739
 Delta R.T. 0.006 min
 Lab File: 5w57187.D
 Acq: 5 Mar 2025 5:31 am

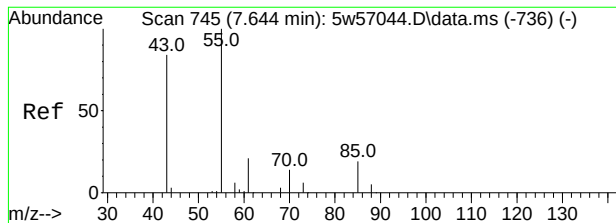
Tgt Ion: 57 Resp: 64919
 Ion Ratio Lower Upper
 57 100
 56 54.4 25.5 85.5
 41 74.6 78.7 138.7#



#41
 METHYL ETHYL KETONE
 Concen: 0.3033 PPBV
 RT: 7.027 min Scan# 644
 Delta R.T. 0.074 min
 Lab File: 5w57187.D
 Acq: 5 Mar 2025 5:31 am

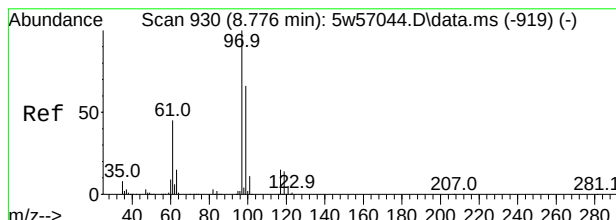
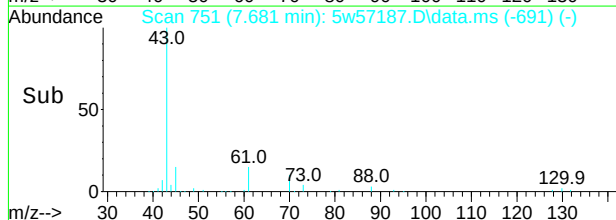
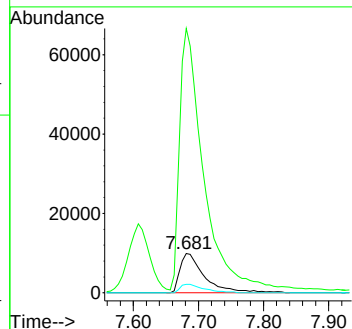
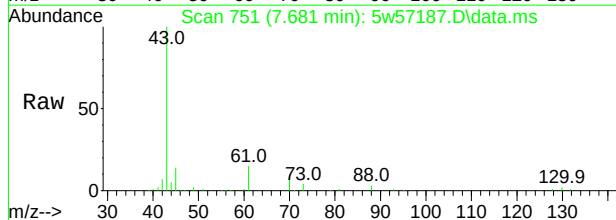
Tgt Ion: 72 Resp: 4251
 Ion Ratio Lower Upper
 72 100
 57 28.6 3.9 63.9
 43 387.2 401.3 461.3#





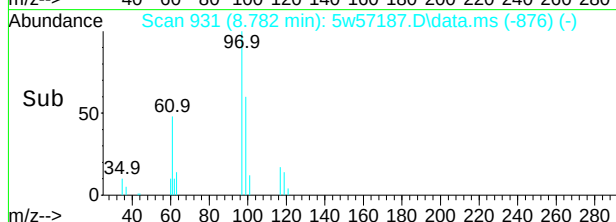
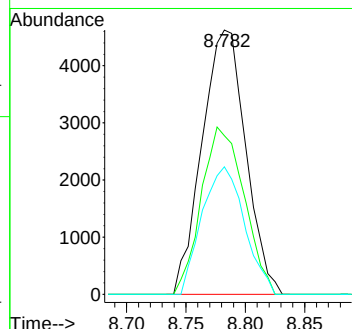
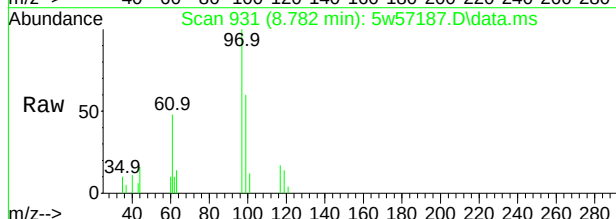
#44
ETHYL ACETATE
Concen: 2.4161 PPBV
RT: 7.681 min Scan# 751
Delta R.T. 0.037 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

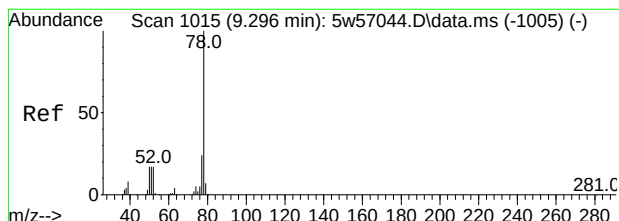
Tgt Ion: 61 Resp: 26066
Ion Ratio Lower Upper
61 100
43 662.1 0.0 30.0#
88 21.0 7.2 67.2



#48
1,1,1-TRICHLOROETHANE
Concen: 0.1398 PPBV
RT: 8.782 min Scan# 931
Delta R.T. 0.006 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

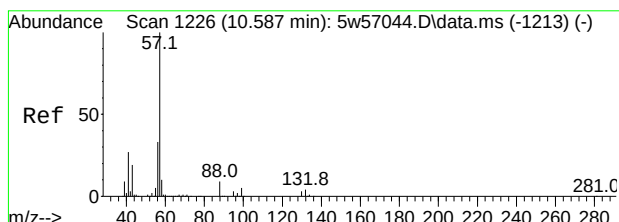
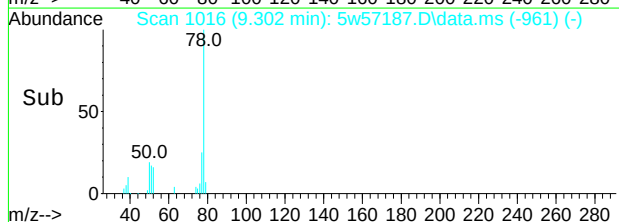
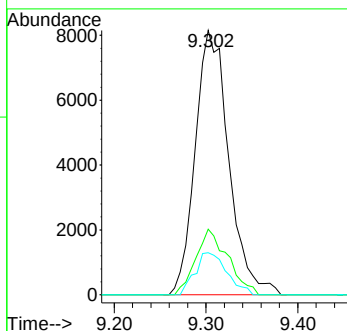
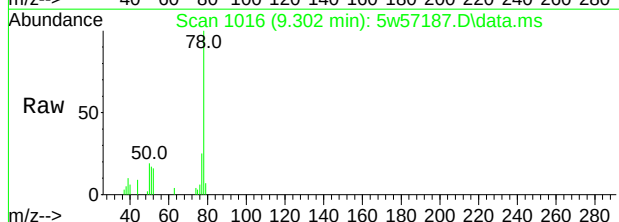
Tgt Ion: 97 Resp: 11844
Ion Ratio Lower Upper
97 100
99 61.9 35.1 95.1
61 47.0 14.7 74.7





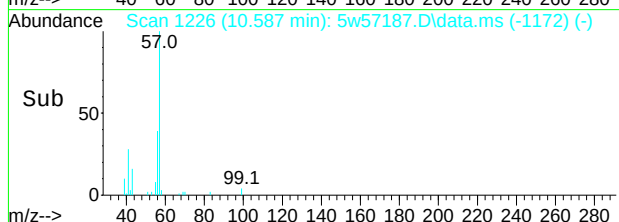
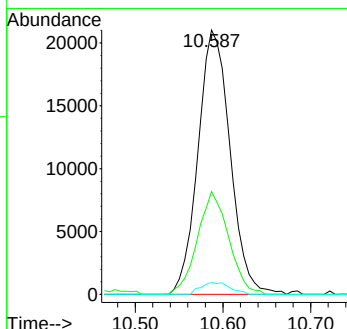
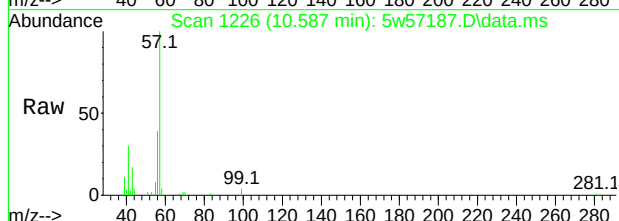
#52
BENZENE
Concen: 0.1792 PPBV
RT: 9.302 min Scan# 1016
Delta R.T. 0.006 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

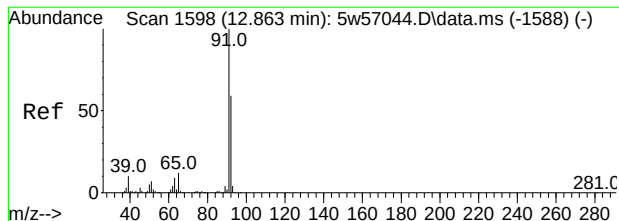
Tgt Ion: 78 Resp: 20730
Ion Ratio Lower Upper
78 100
77 23.8 0.0 53.7
52 15.1 0.0 46.4



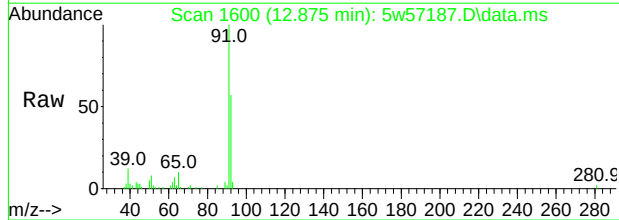
#60
2,2,4-TRIMETHYLPENTANE
Concen: 0.2941 PPBV
RT: 10.587 min Scan# 1226
Delta R.T. 0.000 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

Tgt Ion: 57 Resp: 53506
Ion Ratio Lower Upper
57 100
56 37.9 2.6 62.6
99 4.1 0.0 38.0

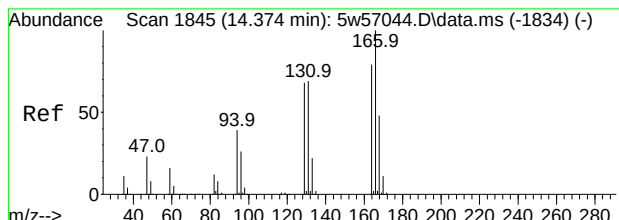
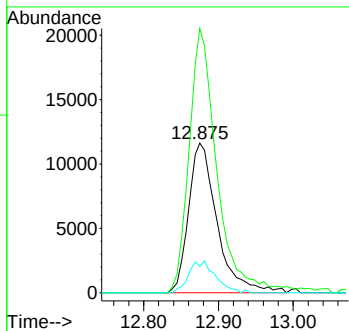
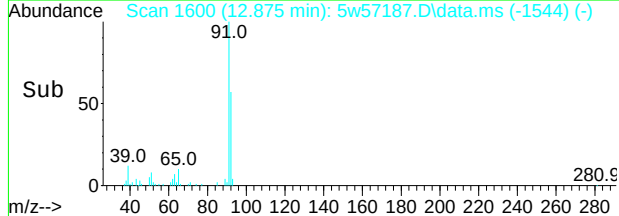




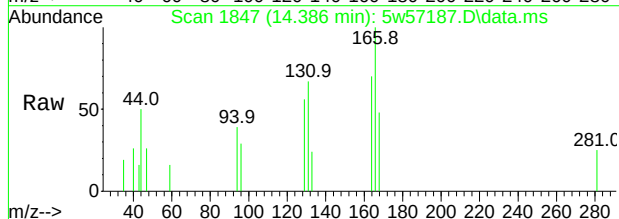
#66
TOLUENE
Concen: 0.3589 PPBV
RT: 12.875 min Scan# 1600
Delta R.T. 0.012 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am



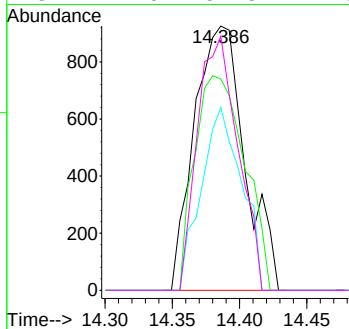
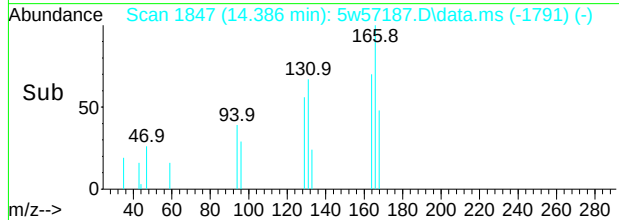
Tgt Ion: 92 Resp: 30822
Ion Ratio Lower Upper
92 100
91 174.7 140.2 200.2
65 20.0 0.0 52.3

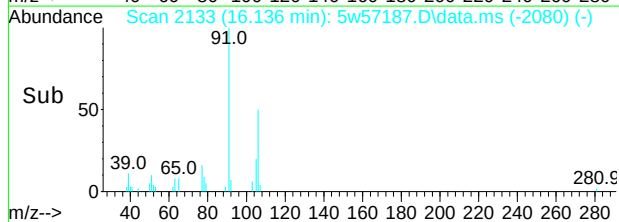
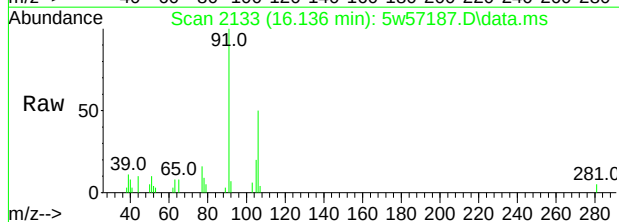
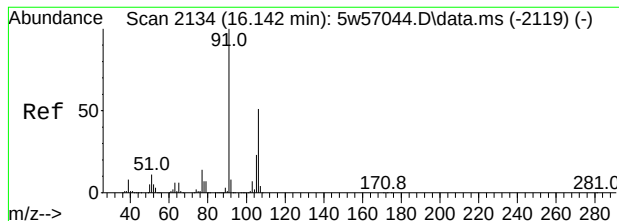


#73
TETRACHLOROETHYLENE
Concen: 0.0368 PPBV
RT: 14.386 min Scan# 1847
Delta R.T. 0.012 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am



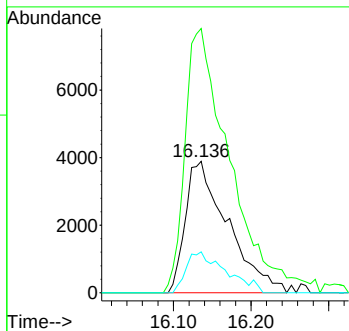
Tgt Ion: 164 Resp: 2420
Ion Ratio Lower Upper
164 100
129 80.6 58.7 118.7
168 55.5 31.6 91.6
131 77.0 57.5 117.5





#80
m,p-XYLENE
Concen: 0.2070 PPBV
RT: 16.136 min Scan# 2133
Delta R.T. -0.006 min
Lab File: 5w57187.D
Acq: 5 Mar 2025 5:31 am

Tgt	Ion:106	Resp:	14797
Ion	Ratio	Lower	Upper
106	100		
91	201.3	166.2	226.2
77	31.3	0.0	56.8



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\030425\v5w2193\
Data File : 5w57166.D
Acq On : 3 Mar 2025 5:55 pm
Operator : thomash
Sample : mb Inst : GCMS5W
Misc : MS89870,V5W2193,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 04 10:12:51 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.565	128	439489	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.731	114	2034935	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	945160	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.565	128	439662	10.00	PPBV	# 0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.494	95	1264782	10.38	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	103.80%

Target Compounds	Qvalue

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

7.2.1

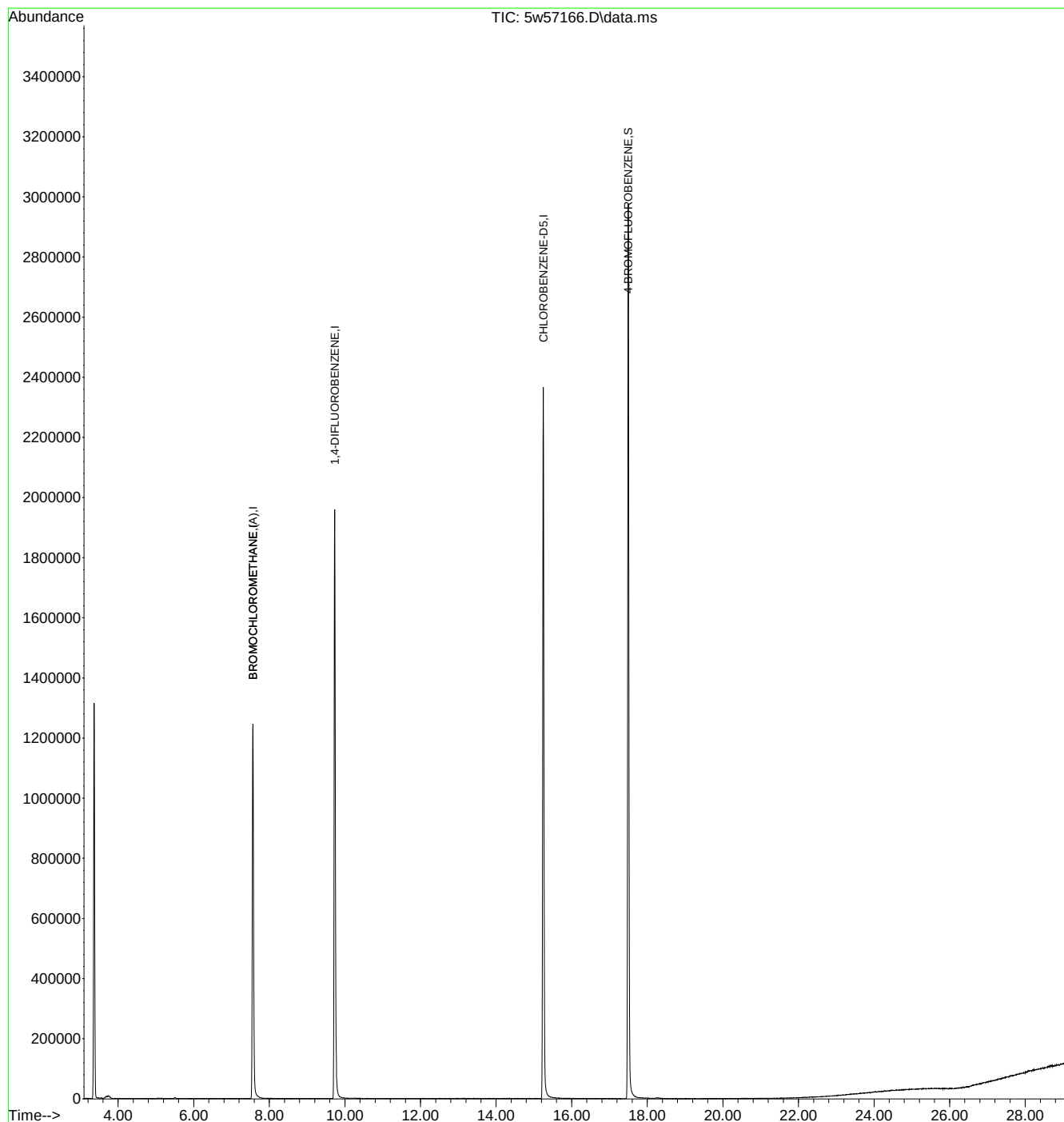
7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\030425\v5w2193\
Data File : 5w57166.D
Acq On : 3 Mar 2025 5:55 pm
Operator : thomash
Sample : mb
Misc : MS89870,V5W2193,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Inst : GCMS5W

Quant Time: Mar 04 10:12:51 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57179.D
Acq On : 4 Mar 2025 10:19 pm
Operator : thomash
Sample : mb Inst : GCMS5W
Misc : MS89870,V5W2194,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 19:04:36 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.559	128	433346	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.731	114	2010879	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	941641	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.559	128	433634	10.00	PPBV	#-0.01
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.494	95	1252576	10.32	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	103.20%

Target Compounds	Qvalue

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

7.2.2

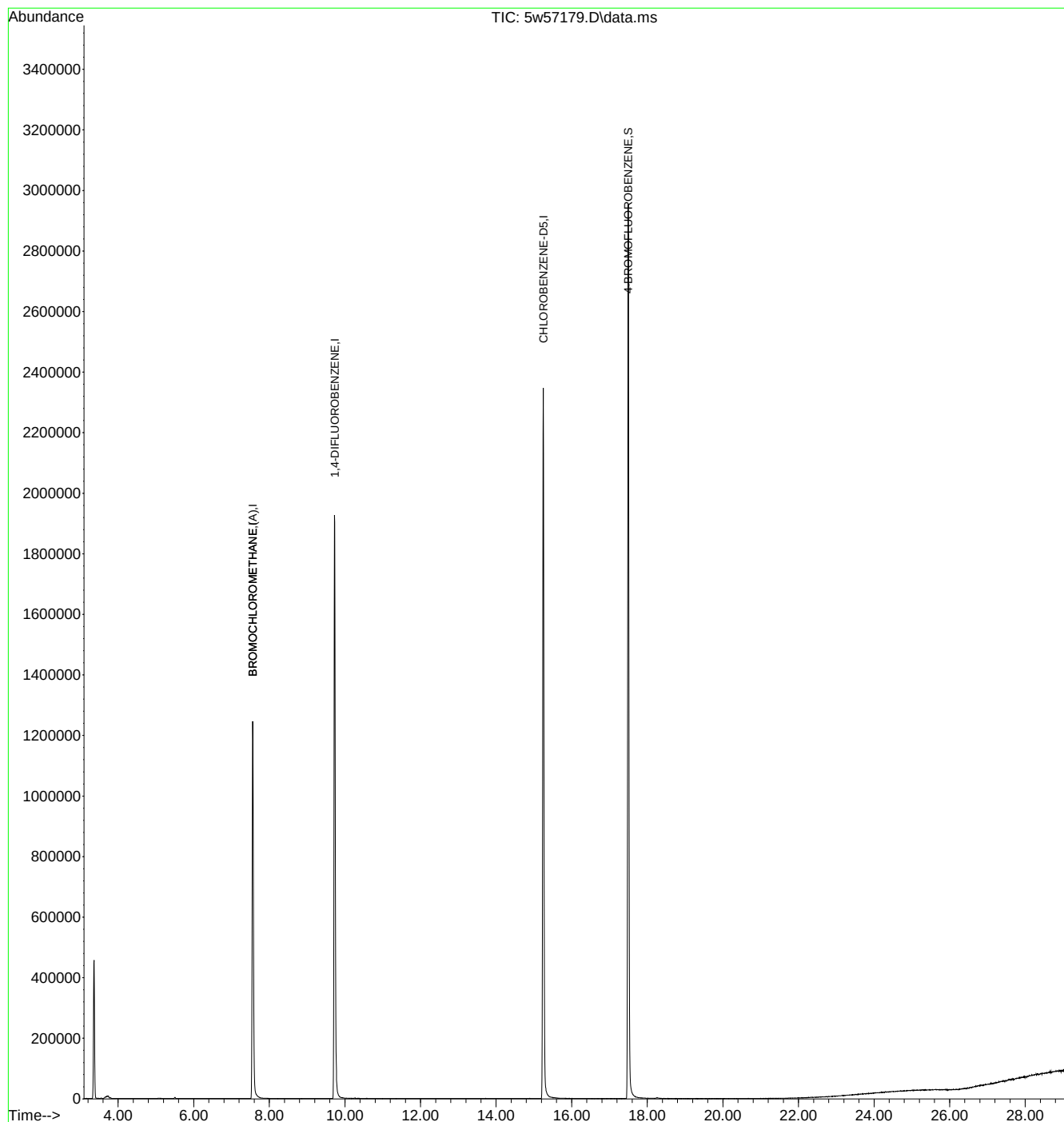
7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57179.D
Acq On : 4 Mar 2025 10:19 pm
Operator : thomash
Sample : mb
Misc : MS89870,V5W2194,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Inst : GCMS5W

Quant Time: Mar 05 19:04:36 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V7W465\
Data File : 7w13223.D
Acq On : 6 Mar 2025 3:13 pm
Operator : williamc
Sample : mb Inst : MS7W
Misc : MS89682,v7w465,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 07 16:53:12 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.232	128	137884	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.499	114	669600	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.035	117	608083	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.232	128	137813	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.382	95	378118	8.57	PPBV	0.00
Target Compounds						Qvalue

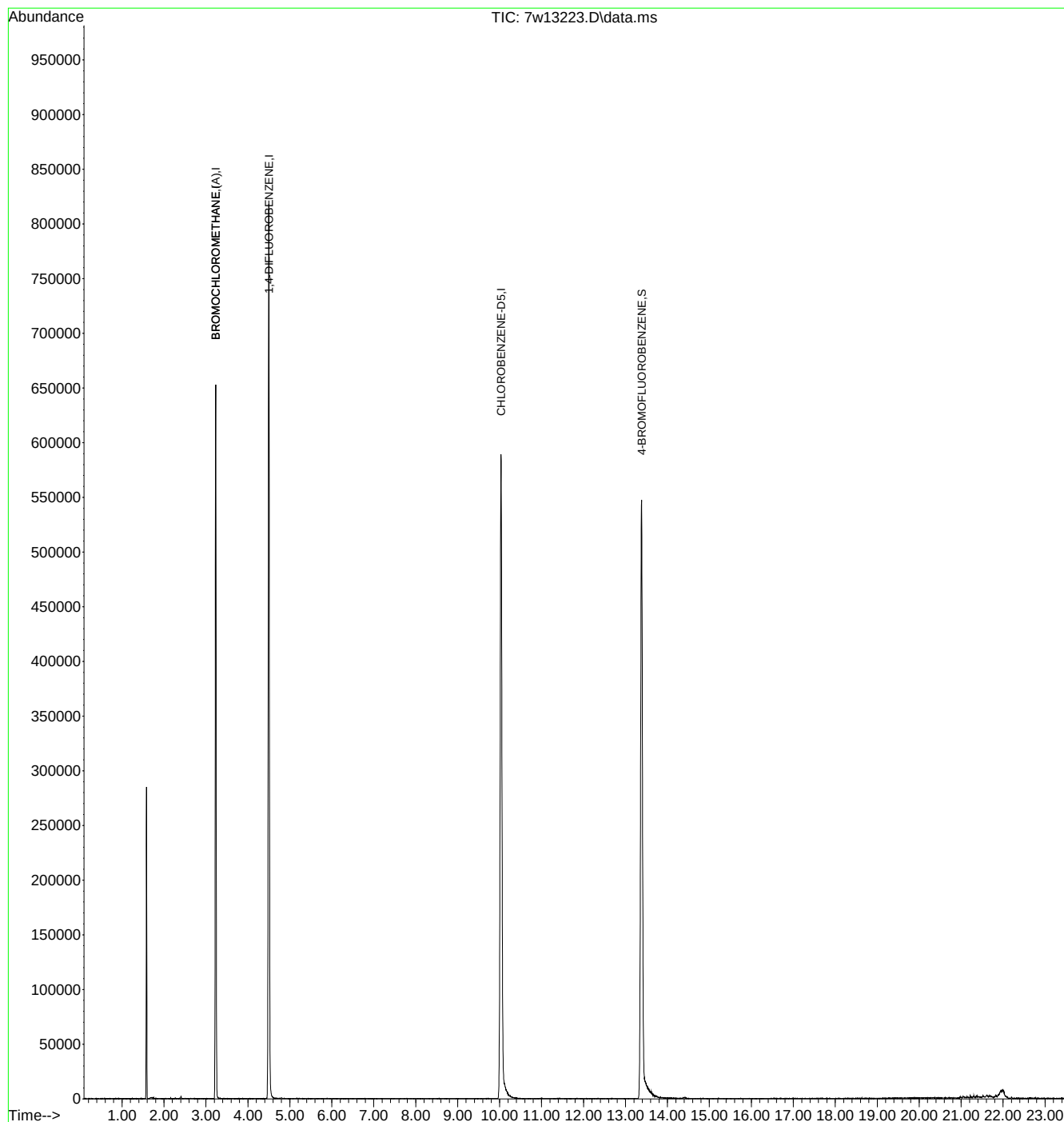
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V7W465\
Data File : 7w13223.D
Acq On : 6 Mar 2025 3:13 pm
Operator : williamc
Sample : mb
Misc : MS89682,v7w465,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Inst : MS7W

Quant Time: Mar 07 16:53:12 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\030725\v5w2196\
Data File : 5w57226.D
Acq On : 6 Mar 2025 4:24 pm
Operator : thomash
Sample : mb Inst : GCMS5W
Misc : MS89750,V5W2196,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:47:11 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.565	128	390508	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.731	114	1814403	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	839511	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.565	128	390912	10.00	PPBV	# 0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.494	95	1103612	10.20	PPBV	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	102.00%	

Target Compounds	Qvalue

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

7.2.4

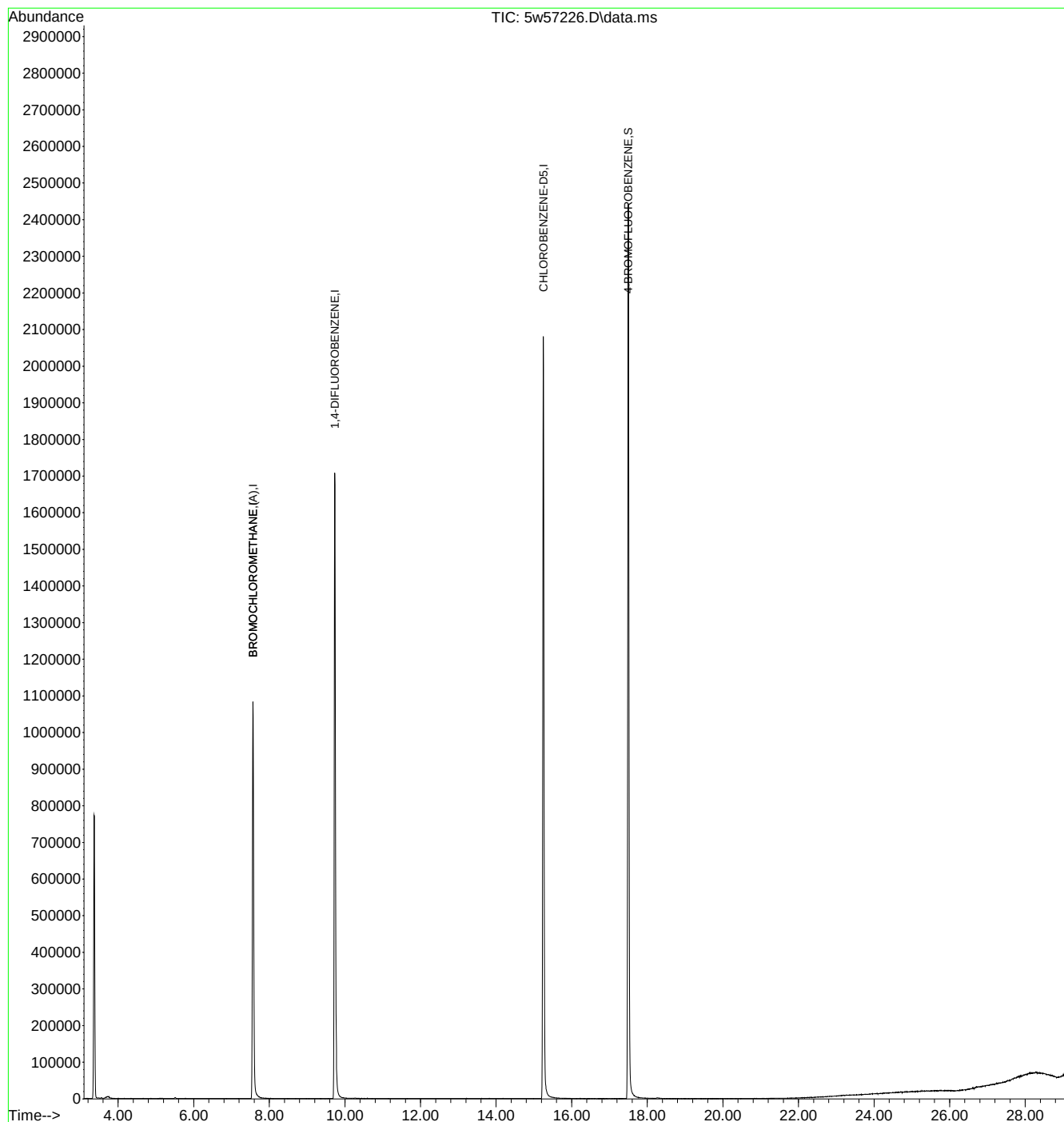
7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\030725\v5w2196\
Data File : 5w57226.D
Acq On : 6 Mar 2025 4:24 pm
Operator : thomash
Sample : mb
Misc : MS89750,V5W2196,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Inst : GCMS5W

Quant Time: Mar 07 07:47:11 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\012025\V7W425\
Data File : 7w11902.D
Acq On : 19 Jan 2025 2:36 am
Operator : benk
Sample : mb Inst : MS7W
Misc : MS88797,v7w425,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 20 11:47:57 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	113767	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.495	114	580074	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	529826	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	113767	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.379	95	380494	9.90	PPBV	0.00
Target Compounds						Qvalue

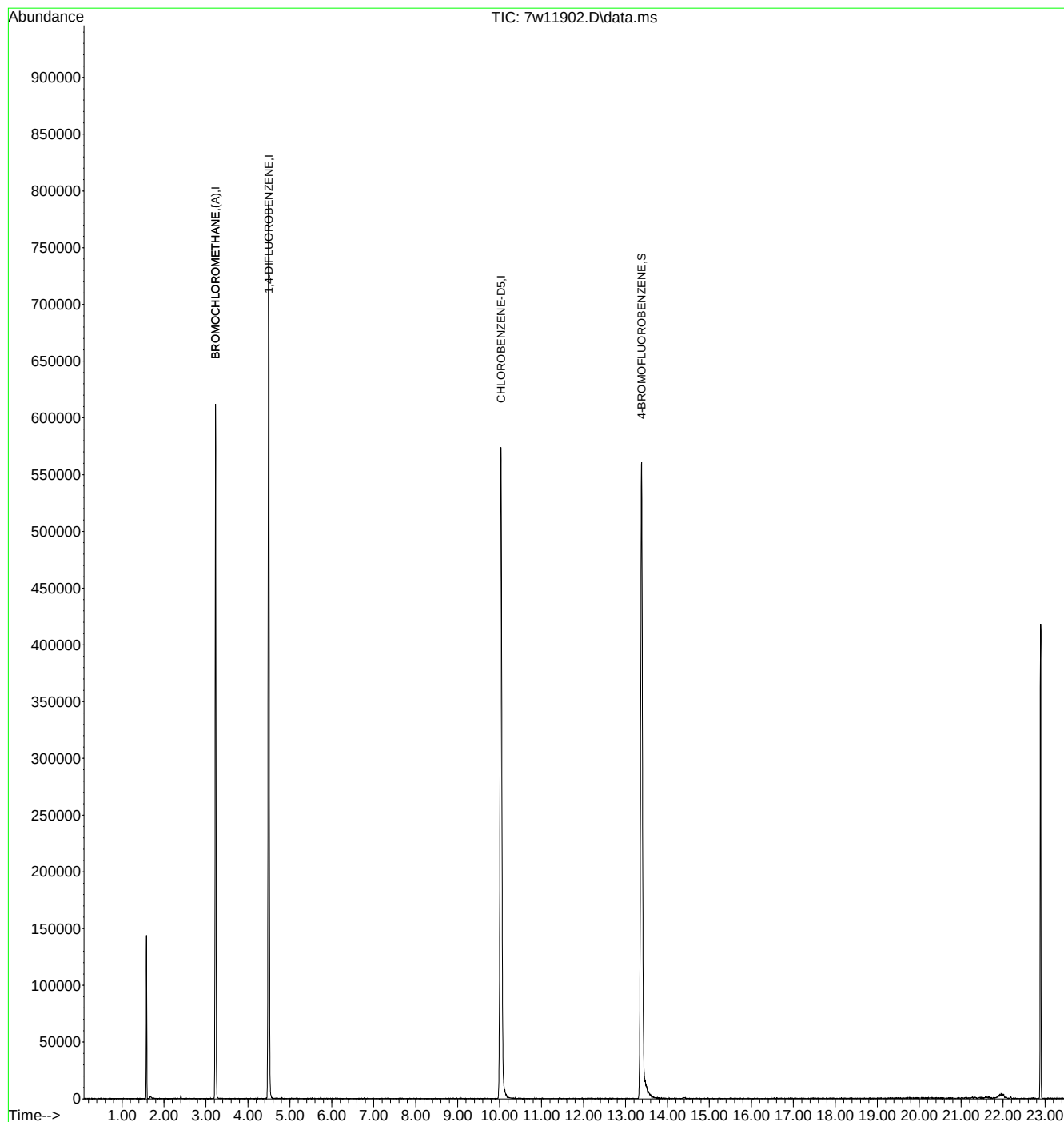
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\012025\V7W425\
Data File : 7w11902.D
Acq On : 19 Jan 2025 2:36 am
Operator : benk
Sample : mb
Misc : MS88797,v7w425,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Inst : MS7W

Quant Time: Jan 20 11:47:57 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\
Data File : 5w56528.D
Acq On : 30 Jan 2025 5:21 pm
Operator : thomash
Sample : mb Inst : GCMS5W
Misc : MS89211,V5W2165,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 31 07:53:19 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) BROMOCHLOROMETHANE	7.644	128	512942	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.810	114	2245450	10.00	PPBV	-0.01
70) CHLOROBENZENE-D5	15.328	82	964513	10.00	PPBV	-0.01
109) BROMOCHLOROMETHANE (A)	7.644	128	512942	10.00	PPBV	# 0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.580	95	1311358	11.54	PPBV	0.00
Spiked Amount	10.000	Range 65 - 128	Recovery	=	115.40%	

Target Compounds	Qvalue

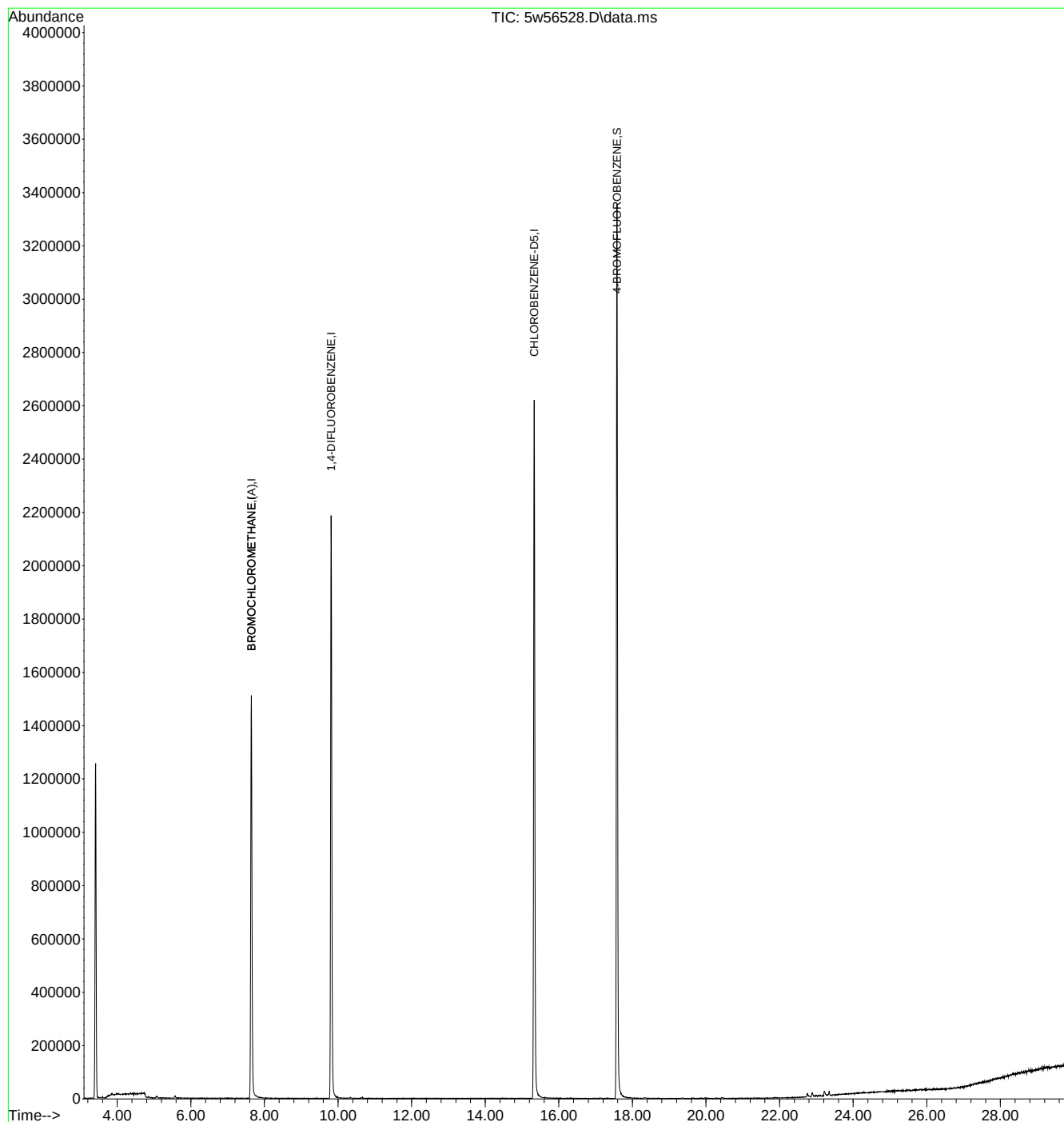
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\
Data File : 5w56528.D
Acq On : 30 Jan 2025 5:21 pm
Operator : thomash
Sample : mb
Misc : MS89211,V5W2165,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Inst : GCMS5W

Quant Time: Jan 31 07:53:19 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12293.D
Acq On : 31 Jan 2025 1:55 pm
Operator : williamc
Sample : mb Inst : MS7W
Misc : MS89099,v7w437,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 31 21:38:24 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	127510	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.496	114	653339	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	587636	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	127510	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.386	95	429205	10.07	PPBV	0.00
Target Compounds						Qvalue

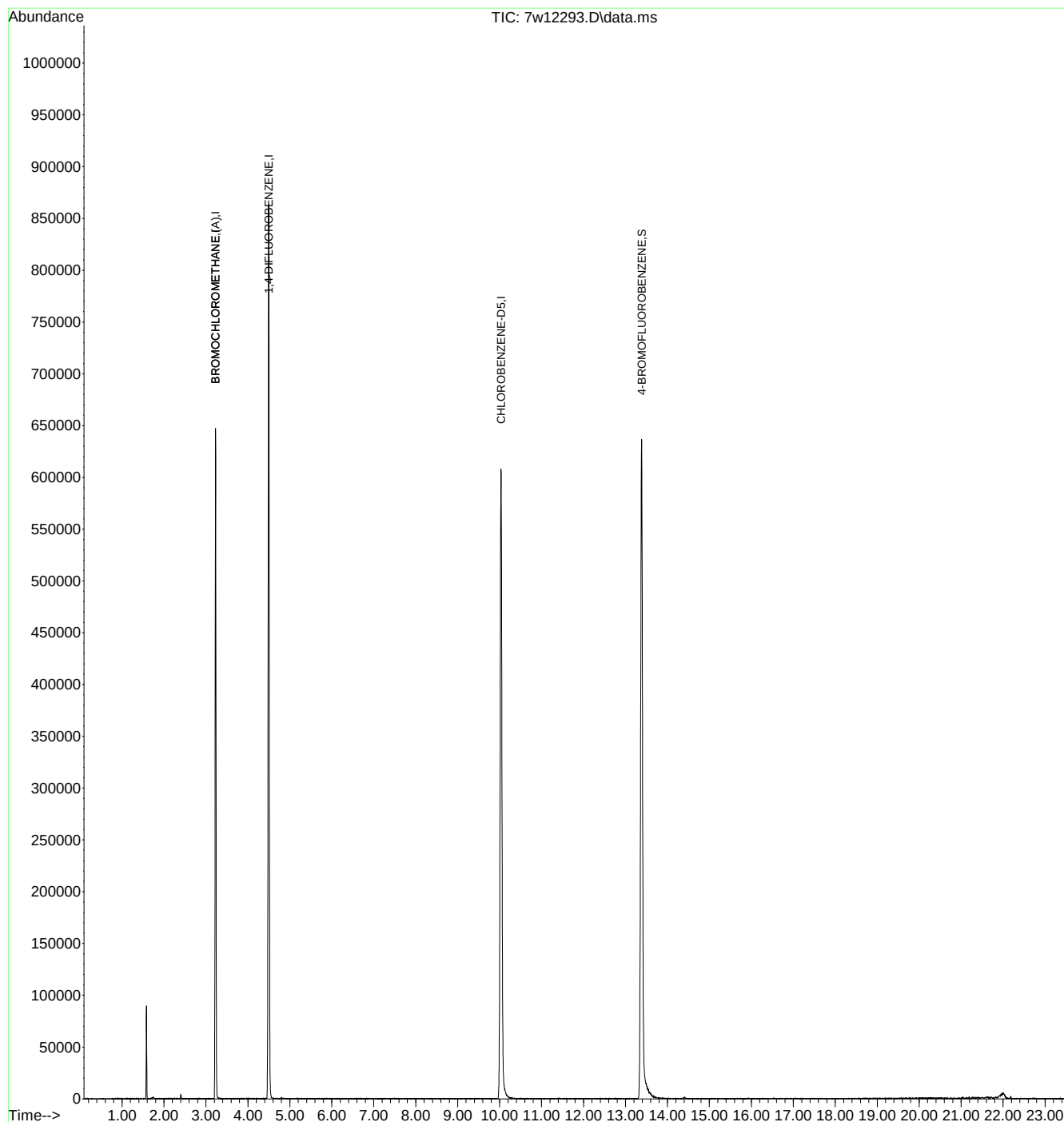
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12293.D
Acq On : 31 Jan 2025 1:55 pm
Operator : williamc
Sample : mb
Misc : MS89099,v7w437,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Inst : MS7W

Quant Time: Jan 31 21:38:24 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\030425\v5w2193\
Data File : 5w57163.D
Acq On : 3 Mar 2025 3:15 pm
Operator : thomash
Sample : bs Inst : GCMS5W
Misc : MS89870,V5W2193,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 10:12:08 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	365916	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1666468	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	897676	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.571	128	365916	10.00	PPBV	# 0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	17.500	95	1132974	9.79	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	97.90%

Target Compounds					Qvalue	
3) FREON 152A	3.485	65	278312	9.8238	PPBV	98
4) CHLORODIFLUOROMETHANE	3.515	67	133415	10.3496	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.540	116	657665	10.3337	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.589	85	1290463	11.1438	PPBV	100
7) PROPYLENE	3.533	41	296604	9.3404	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.686	65	1242524	12.6922	PPBV	99
9) FREON 114	3.772	85	1603155	13.0208	PPBV	95
10) CHLOROMETHANE	3.705	52	177411	12.0428	PPBV	99
11) VINYL CHLORIDE	3.864	62	577998	12.4909	PPBV	99
12) 1,3-BUTADIENE	3.956	54	392727	13.2811	PPBV	98
13) n-BUTANE	3.992	43	626594	13.0136	PPBV	98
14) BROMOMETHANE	4.157	94	596163	12.0159	PPBV	99
15) CHLOROETHANE	4.280	64	265590	11.8622	PPBV	99
16) DICHLOROFLUOROMETHANE	4.341	67	1230559	13.0071	PPBV	100
17) ACETONITRILE	4.537	41	343166	12.3481	PPBV	100
18) ACROLEIN	4.629	56	210178	13.2790	PPBV	98
19) FREON 123	4.653	83	1339238	13.0374	PPBV	97
20) FREON 123A	4.696	117	758074	11.7383	PPBV	87
21) TRICHLOROFLUOROMETHANE	4.855	101	1415165	12.4582	PPBV	100
22) ISOPROPYL ALCOHOL	4.934	45	907260	12.0754	PPBV	100
23) ACETONE	4.733	58	246570	13.1071	PPBV	# 1
24) PENTANE	5.142	42	380610	11.1161	PPBV	99
25) IODOMETHANE	5.326	142	1234620	10.5987	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.387	96	395194	10.3608	PPBV	96
27) CARBON DISULFIDE	5.754	76	1117574	10.8886	PPBV	100
28) ETHANOL	4.372	45	236753	12.6659	PPBV	99
29) BROMOETHENE	4.537	106	578511	12.2919	PPBV	99
30) ACRYLONITRILE	5.112	52	268649	11.0852	PPBV	100
31) METHYLENE CHLORIDE	5.497	84	360092	10.1907	PPBV	99
32) 3-CHLOROPROPENE	5.601	76	188027	10.7611	PPBV	97
33) FREON 113	5.724	151	708742	10.0116	PPBV	96
34) TRANS-1,2-DICHLOROETHYLENE	6.354	96	418876	10.2799	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.448	59	768867	10.1659	PPBV	99
36) METHYL TERTIARY BUTYL ETHER	6.611	73	1099626	10.1837	PPBV	100
37) TETRAHYDROFURAN	8.134	72	182012	12.5664	PPBV	99
38) HEXANE	7.602	57	661724	10.6328	PPBV	98
39) VINYL ACETATE	6.709	86	76496	11.9404	PPBV	# 93
40) 1,1-DICHLOROETHANE	6.550	63	779957	10.9484	PPBV	100
41) METHYL ETHYL KETONE	6.953	72	190065	12.9751	PPBV	96
42) cis-1,2-DICHLOROETHYLENE	7.400	96	451244	10.4876	PPBV	98
43) DIISOPROPYL ETHER	7.614	59	200990	12.7034	PPBV	97
44) ETHYL ACETATE	7.651	61	146974	13.0352	PPBV	# 77
45) METHYL ACRYLATE	7.632	55	807771	11.7140	PPBV	99
46) CHLOROFORM	7.712	83	924195	10.9759	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.562	57	747300	10.6560	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.776	97	944141	10.6607	PPBV	99
49) CARBON TETRACHLORIDE	9.468	117	1039298	10.4372	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\030425\v5w2193\
Data File : 5w57163.D
Acq On : 3 Mar 2025 3:15 pm
Operator : thomash
Sample : bs Inst : GCMS5W
Misc : MS89870,V5W2193,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 10:12:08 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.501	62	640014	11.0807	PPBV	100
52) BENZENE	9.296	78	1275437	11.0465	PPBV	100
53) CYCLOHEXANE	9.596	84	507306	10.7968	PPBV	98
54) 2,3-DIMETHYLPENTANE	9.902	71	255863	10.9211	PPBV	98
55) TRICHLOROETHYLENE	10.551	95	618577	10.3773	PPBV	95
56) 1,2-DICHLOROPROPANE	10.257	63	502819	10.5538	PPBV	98
57) DIBROMOMETHANE	10.232	174	654800	9.7618	PPBV	96
58) ETHYL ACRYLATE	10.312	55	971077	12.7190	PPBV	99
59) BROMODICHLOROMETHANE	10.502	83	1073315	10.6930	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	10.587	57	2024317	11.1480	PPBV	100
61) 1,4-DIOXANE	10.569	88	297950	11.3982	PPBV #	80
62) HEPTANE	10.930	43	675310	10.9003	PPBV	99
63) METHYL METHACRYLATE	10.838	69	441824	12.3224	PPBV	97
64) METHYL ISOBUTYL KETONE	11.688	58	404696	12.0857	PPBV	97
65) cis-1,3-DICHLOROPROPENE	11.633	75	836881	11.1071	PPBV	99
66) TOLUENE	12.863	92	910108	10.6178	PPBV	99
67) 1,3-DICHLOROPROPANE	12.912	76	754371	11.2190	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.312	75	743884	10.8466	PPBV	100
69) 1,1,2-TRICHLOROETHANE	12.514	83	515415	11.0120	PPBV	98
71) 2-HEXANONE	13.261	58	579049	12.6062	PPBV	99
72) ETHYL METHACRYLATE	13.291	69	767023	11.4735	PPBV	98
73) TETRACHLOROETHYLENE	14.368	164	712556	9.8388	PPBV	99
74) DIBROMOCHLOROMETHANE	13.414	129	1143676	9.7871	PPBV	100
75) 1,2-DIBROMOETHANE	13.726	107	975642	10.5113	PPBV	100
76) OCTANE	14.233	43	977198	10.2970	PPBV	99
77) 1,1,1,2-TETRACHLOROETHANE	15.292	131	779574	10.0542	PPBV	97
78) CHLOROBENZENE	15.310	112	1300518	9.9478	PPBV	97
79) ETHYLBENZENE	15.867	91	2045027	10.4373	PPBV	98
80) m,p-XYLENE	16.118	106	1554242	19.7524	PPBV	96
81) o-XYLENE	16.809	106	772570	10.2441	PPBV	96
82) STYRENE	16.656	104	1200165	10.3613	PPBV	99
83) NONANE	17.219	43	992068	9.5971	PPBV	99
84) BROMOFORM	16.191	173	1220689	10.4311	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.809	83	1369785	11.0467	PPBV	98
87) 1,2,3-TRICHLOROPROPANE	17.005	75	921717	10.0755	PPBV	97
88) ISOPROPYLBENZENE	17.720	105	2189187	9.7909	PPBV	98
89) BROMOBENZENE	17.812	77	1101016	9.6080	PPBV	96
90) 2-CHLOROTOLUENE	18.455	126	585739	9.3286	PPBV	100
91) n-PROPYLBENZENE	18.540	120	605578	9.6545	PPBV	99
92) 4-ETHYLTOLUENE	18.791	105	2244581	10.2917	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	18.926	105	1826198	9.6185	PPBV	98
94) ALPHA-METHYLSTYRENE	19.170	118	939722	9.6756	PPBV	99
95) tert-BUTYLBENZENE	19.531	134	433331	10.1400	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	19.544	105	1966214	10.4377	PPBV	98
97) m-DICHLOROBENZENE	19.739	146	1442852	9.5190	PPBV	100
98) BENZYL CHLORIDE	19.733	91	1806962	11.1255	PPBV	98
99) p-DICHLOROBENZENE	19.843	146	1407820	9.0550	PPBV	100
100) sec-BUTYLBENZENE	19.941	134	513648	9.8282	PPBV	91
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	1907212	9.7225	PPBV #	97
102) p-ISOPROPYLTOLUENE	20.186	134	587876	9.7943	PPBV	96
103) o-DICHLOROBENZENE	20.327	146	1316284	9.0788	PPBV	100
104) n-BUTYLBENZENE	20.785	134	583322	10.0028	PPBV #	86
105) HEXACHLOROETHANE	21.244	117	965501	10.4936	PPBV	99
106) HEXACHLOROBUTADIENE	23.190	225	1378553	10.1721	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.055	180	1217961	10.0229	PPBV	99
108) NAPHTHALENE	22.737	128	2608706	9.5898	PPBV	100
110) TVHC as equiv Pentane	5.142	TIC	2612524	10.3159	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\030425\v5w2193\
Data File : 5w57163.D
Acq On : 3 Mar 2025 3:15 pm
Operator : thomash
Sample : bs Inst : GCMS5W
Misc : MS89870,V5W2193,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 10:12:08 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

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

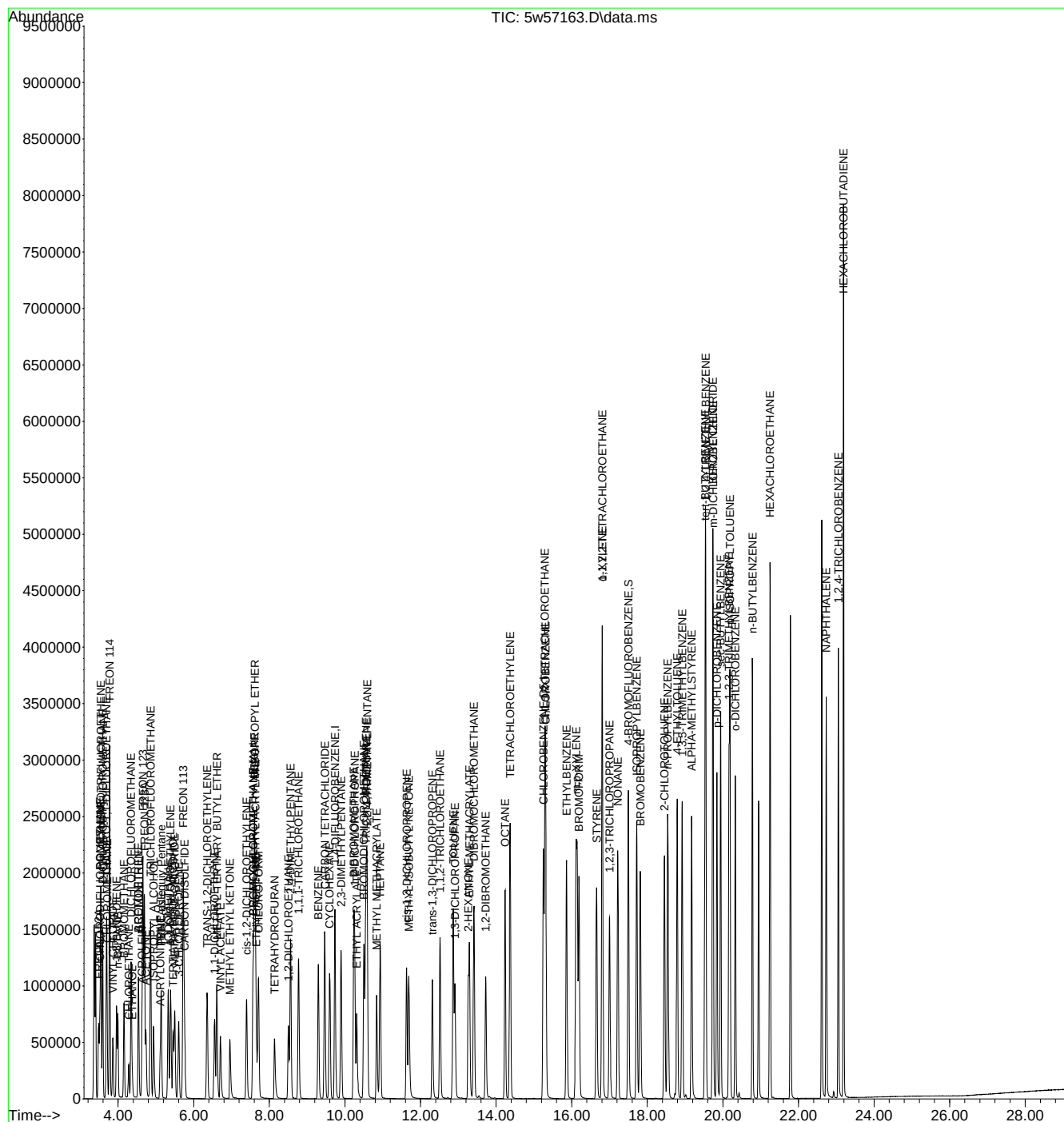
7.3.1

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Quantitation Report (QT Reviewed)

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Data Path : X:\Dayton VOA GCMS\kristel\030425\5w2193\
Data File : 5w57163.D
Acq On    : 3 Mar 2025 3:15 pm
Operator  : thomash
Sample    : bs
Misc      : MS89870,V5W2193,,,,,1
ALS Vial  : 2 Sample Multiplier: 1
Inst      : GCMS5W
```

Quant Time: Mar 04 10:12:08 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\030425\5w2193\
 Data File : 5w57164.D
 Acq On : 3 Mar 2025 4:09 pm
 Operator : thomash
 Sample : bsd Inst : GCMS5W
 Misc : MS89870,V5W2193,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 10:12:19 2025
 Quant Method : C:\msdchem\1\methods\M5w2187.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Mon Feb 24 14:22:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	368983	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1671772	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	898522	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.571	128	368983	10.00	PPBV	# 0.00

System Monitoring Compounds
 85) 4-BROMOFLUOROBENZENE 17.500 95 1134320 9.79 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 97.90%

Target Compounds					Qvalue	
3) FREON 152A	3.484	65	278855	9.7611	PPBV	99
4) CHLORODIFLUOROMETHANE	3.515	67	136523	10.5026	PPBV	99
5) CHLOROTRIFLUOROETHENE	3.546	116	669295	10.4290	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.588	85	1304349	11.1700	PPBV	99
7) PROPYLENE	3.539	41	292298	9.1283	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHYLENE	3.692	65	1258280	12.7463	PPBV	99
9) FREON 114	3.772	85	1620596	13.0530	PPBV	95
10) CHLOROMETHANE	3.705	52	177277	11.9337	PPBV	98
11) VINYL CHLORIDE	3.864	62	582612	12.4859	PPBV	99
12) 1,3-BUTADIENE	3.962	54	395315	13.2575	PPBV	98
13) n-BUTANE	3.992	43	631916	13.0151	PPBV	98
14) BROMOMETHANE	4.157	94	600261	11.9979	PPBV	99
15) CHLOROETHANE	4.280	64	270710	11.9903	PPBV	98
16) DICHLOROFLUOROMETHANE	4.347	67	1242093	13.0199	PPBV	99
17) ACETONITRILE	4.537	41	345738	12.3373	PPBV	100
18) ACROLEIN	4.628	56	211288	13.2382	PPBV	97
19) FREON 123	4.653	83	1352051	13.0527	PPBV	97
20) FREON 123A	4.696	117	764491	11.7393	PPBV	87
21) TRICHLOROFLUOROMETHANE	4.855	101	1428497	12.4710	PPBV	100
22) ISOPROPYL ALCOHOL	4.940	45	931708	12.2977	PPBV	99
23) ACETONE	4.739	58	248287	13.0887	PPBV	# 1
24) PENTANE	5.142	42	379561	10.9933	PPBV	99
25) IODOMETHANE	5.326	142	1249412	10.6365	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.387	96	398867	10.3701	PPBV	96
27) CARBON DISULFIDE	5.760	76	1121576	10.8368	PPBV	99
28) ETHANOL	4.371	45	239614	12.7124	PPBV	99
29) BROMOETHENE	4.537	106	583803	12.3013	PPBV	99
30) ACRYLONITRILE	5.112	52	270032	11.0497	PPBV	100
31) METHYLENE CHLORIDE	5.497	84	363857	10.2117	PPBV	99
32) 3-CHLOROPROPENE	5.601	76	189238	10.7403	PPBV	96
33) FREON 113	5.723	151	722112	10.1157	PPBV	96
34) TRANS-1,2-DICHLOROETHYLENE	6.354	96	421795	10.2655	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.448	59	770516	10.1030	PPBV	99
36) METHYL TERTIARY BUTYL ETHER	6.611	73	1108823	10.1835	PPBV	99
37) TETRAHYDROFURAN	8.134	72	184093	12.6045	PPBV	98
38) HEXANE	7.602	57	660234	10.5207	PPBV	99
39) VINYL ACETATE	6.708	86	78519	12.1543	PPBV	100
40) 1,1-DICHLOROETHANE	6.549	63	786790	10.9526	PPBV	100
41) METHYL ETHYL KETONE	6.953	72	192091	13.0044	PPBV	95
42) cis-1,2-DICHLOROETHYLENE	7.400	96	454473	10.4749	PPBV	98
43) DIISOPROPYL ETHER	7.614	59	201009	12.5990	PPBV	96
44) ETHYL ACETATE	7.644	61	142994	12.5768	PPBV	# 99
45) METHYL ACRYLATE	7.632	55	808037	11.6204	PPBV	99
46) CHLOROFORM	7.712	83	932629	10.9840	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.562	57	747635	10.5722	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.776	97	960200	10.7519	PPBV	99
49) CARBON TETRACHLORIDE	9.468	117	1056536	10.5221	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\030425\v5w2193\
Data File : 5w57164.D
Acq On : 3 Mar 2025 4:09 pm
Operator : thomash
Sample : bsd Inst : GCMS5W
Misc : MS89870,V5W2193,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 10:12:19 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.507	62	647019	11.1088	PPBV	99
52) BENZENE	9.296	78	1282267	11.0704	PPBV	100
53) CYCLOHEXANE	9.596	84	513390	10.8916	PPBV	100
54) 2,3-DIMETHYLPENTANE	9.902	71	257340	10.9493	PPBV	99
55) TRICHLOROETHYLENE	10.550	95	623580	10.4280	PPBV	96
56) 1,2-DICHLOROPROPANE	10.257	63	501431	10.4912	PPBV	99
57) DIBROMOMETHANE	10.232	174	664258	9.8714	PPBV	96
58) ETHYL ACRYLATE	10.312	55	966397	12.6176	PPBV	99
59) BROMODICHLOROMETHANE	10.501	83	1082662	10.7519	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.587	57	2015661	11.0651	PPBV	100
61) 1,4-DIOXANE	10.569	88	300288	11.4512	PPBV #	82
62) HEPTANE	10.930	43	670049	10.7811	PPBV	99
63) METHYL METHACRYLATE	10.838	69	445478	12.3849	PPBV	97
64) METHYL ISOBUTYL KETONE	11.688	58	405044	12.0577	PPBV	97
65) cis-1,3-DICHLOROPROPENE	11.633	75	838987	11.0997	PPBV	100
66) TOLUENE	12.863	92	910809	10.5922	PPBV	99
67) 1,3-DICHLOROPROPANE	12.912	76	758563	11.2455	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.312	75	748839	10.8842	PPBV	99
69) 1,1,2-TRICHLOROETHANE	12.514	83	521335	11.1031	PPBV	97
71) 2-HEXANONE	13.261	58	574761	12.5010	PPBV	99
72) ETHYL METHACRYLATE	13.291	69	767860	11.4752	PPBV	98
73) TETRACHLOROETHYLENE	14.368	164	723893	9.9860	PPBV	99
74) DIBROMOCHLOROMETHANE	13.413	129	1156674	9.8890	PPBV	100
75) 1,2-DIBROMOETHANE	13.725	107	988595	10.6408	PPBV	99
76) OCTANE	14.233	43	964688	10.1557	PPBV	99
77) 1,1,1,2-TETRACHLOROETHANE	15.292	131	787932	10.1524	PPBV	96
78) CHLOROBENZENE	15.310	112	1313983	10.0413	PPBV	98
79) ETHYLBENZENE	15.867	91	2062431	10.5162	PPBV	98
80) m,p-XYLENE	16.117	106	1561364	19.8242	PPBV	97
81) o-XYLENE	16.809	106	775557	10.2740	PPBV	96
82) STYRENE	16.656	104	1208376	10.4223	PPBV	99
83) NONANE	17.219	43	981672	9.4876	PPBV	99
84) BROMOFORM	16.191	173	1241042	10.5950	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.809	83	1365900	11.0050	PPBV	98
87) 1,2,3-TRICHLOROPROPANE	16.998	75	923973	10.0907	PPBV	98
88) ISOPROPYLBENZENE	17.720	105	2206977	9.8611	PPBV	98
89) BROMOBENZENE	17.812	77	1101708	9.6050	PPBV	97
90) 2-CHLOROTOLUENE	18.454	126	593276	9.4397	PPBV	99
91) n-PROPYLBENZENE	18.540	120	614946	9.7946	PPBV	99
92) 4-ETHYLTOLUENE	18.791	105	2256971	10.3387	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	18.925	105	1852812	9.7495	PPBV	99
94) ALPHA-METHYLSTYRENE	19.170	118	949510	9.7672	PPBV	99
95) tert-BUTYLBENZENE	19.531	134	441308	10.3169	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	19.543	105	1975675	10.4780	PPBV	98
97) m-DICHLOROBENZENE	19.739	146	1462008	9.6363	PPBV	100
98) BENZYL CHLORIDE	19.733	91	1818349	11.1851	PPBV	98
99) p-DICHLOROBENZENE	19.843	146	1419183	9.1195	PPBV	100
100) sec-BUTYLBENZENE	19.941	134	520165	9.9435	PPBV	93
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	1912478	9.7402	PPBV #	98
102) p-ISOPROPYLTOLUENE	20.186	134	595382	9.9100	PPBV	98
103) o-DICHLOROBENZENE	20.326	146	1327317	9.1462	PPBV	100
104) n-BUTYLBENZENE	20.779	134	592339	10.1479	PPBV	88
105) HEXACHLOROETHANE	21.244	117	970992	10.5434	PPBV	98
106) HEXACHLOROBUTADIENE	23.190	225	1430322	10.5442	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.055	180	1263502	10.3879	PPBV	99
108) NAPHTHALENE	22.737	128	2669654	9.8047	PPBV	100
110) TVHC as equiv Pentane	5.142	TIC	2614417	10.2376	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\030425\v5w2193\
Data File : 5w57164.D
Acq On : 3 Mar 2025 4:09 pm
Operator : thomash
Sample : bsd Inst : GCMS5W
Misc : MS89870,V5W2193,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 10:12:19 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

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

7.3.2

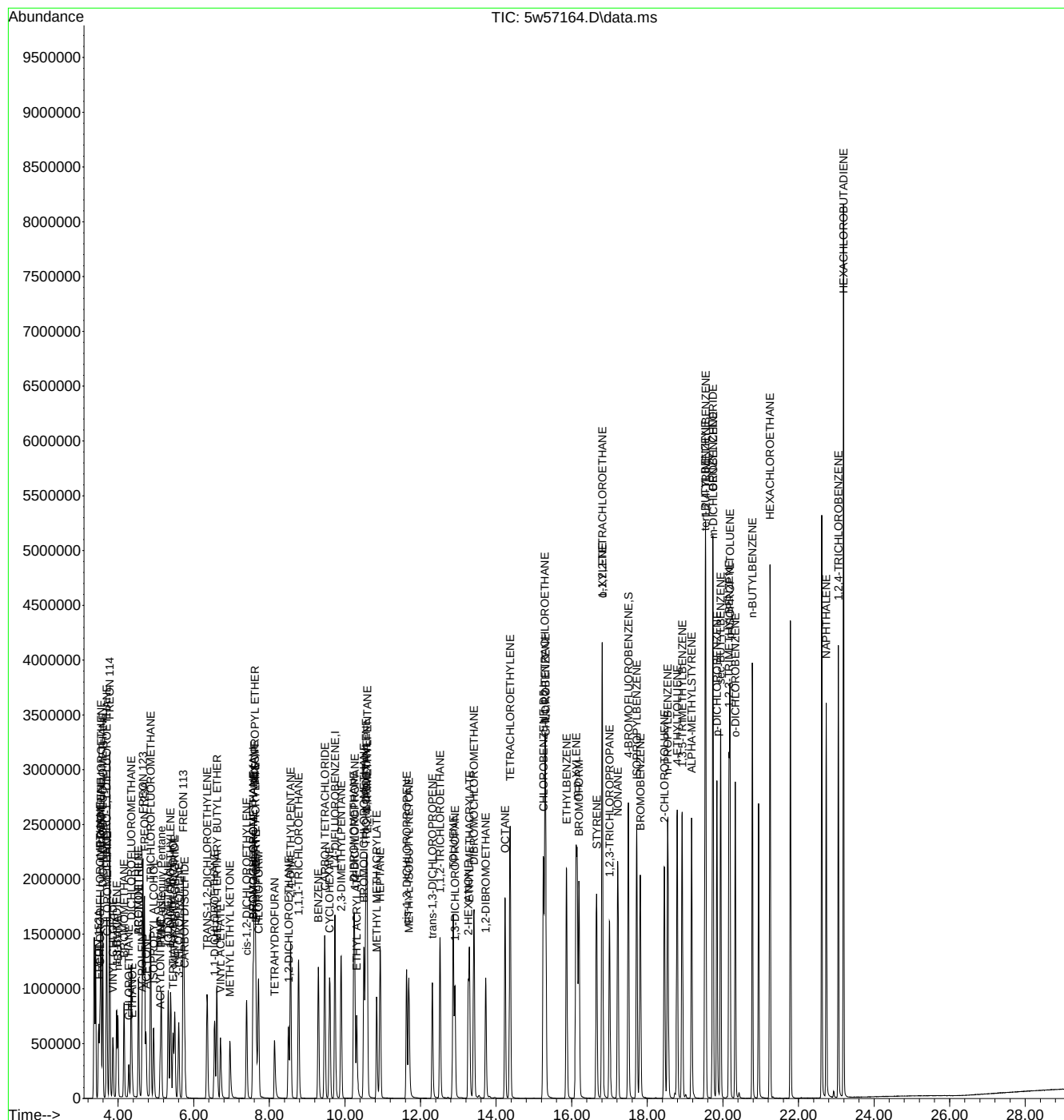
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Quantitation Report (QT Reviewed)

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Data Path : X:\Dayton VOA GCMS\kristel\030425\v5w2193\
Data File : 5w57164.D
Acq On    : 3 Mar 2025 4:09 pm
Operator  : thomash
Sample    : bsd
Misc      : MS89870,V5W2193,,,,,1
ALS Vial  : 2 Sample Multiplier: 1
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Inst : GCMS5W

Quant Time: Mar 04 10:12:19 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



7.3.2

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57176.D
Acq On : 4 Mar 2025 7:43 pm
Operator : thomash
Sample : bs Inst : GCMS5W
Misc : MS89870,V5W2194,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:17:35 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.559	128	351640	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.731	114	1618109	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	876457	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.559	128	351640	10.00	PPBV	#-0.01

System Monitoring Compounds
85) 4-BROMOFLUOROBENZENE 17.500 95 1098655 9.72 PPBV 0.00
Spiked Amount 10.000 Range 65 - 128 Recovery = 97.20%

Target Compounds	Qvalue					
3) FREON 152A	3.472	65	277026	10.1754	PPBV	98
4) CHLORODIFLUOROMETHANE	3.509	67	128920	10.4069	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.534	116	632215	10.3371	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.582	85	1247114	11.2066	PPBV	99
7) PROPYLENE	3.527	41	291635	9.5568	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.680	65	1221093	12.9796	PPBV	100
9) FREON 114	3.766	85	1550484	13.1042	PPBV	95
10) CHLOROMETHANE	3.699	52	170206	12.0228	PPBV	99
11) VINYL CHLORIDE	3.852	62	560072	12.5949	PPBV	100
12) 1,3-BUTADIENE	3.950	54	385223	13.5562	PPBV	99
13) n-BUTANE	3.986	43	609352	13.1693	PPBV	99
14) BROMOMETHANE	4.145	94	577549	12.1133	PPBV	99
15) CHLOROETHANE	4.268	64	257268	11.9570	PPBV	98
16) DICHLOROFLUOROMETHANE	4.335	67	1195638	13.1511	PPBV	100
17) ACETONITRILE	4.525	41	334542	12.5265	PPBV	99
18) ACROLEIN	4.622	56	218357	14.3558	PPBV	99
19) FREON 123	4.641	83	1303297	13.2026	PPBV	97
20) FREON 123A	4.684	117	731071	11.7797	PPBV	87
21) TRICHLOROFLUOROMETHANE	4.849	101	1376076	12.6059	PPBV	100
22) ISOPROPYL ALCOHOL	4.928	45	860868	11.9231	PPBV	100
23) ACETONE	4.726	58	230529	12.7519	PPBV #	1
24) PENTANE	5.130	42	400253	12.1643	PPBV	96
25) IODOMETHANE	5.314	142	1333751	11.9145	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.375	96	373318	10.1846	PPBV	93
27) CARBON DISULFIDE	5.742	76	1058387	10.7306	PPBV	99
28) ETHANOL	4.359	45	233475	12.9977	PPBV	100
29) BROMOETHENE	4.531	106	559945	12.3805	PPBV	99
30) ACRYLONITRILE	5.100	52	319581	13.7222	PPBV	98
31) METHYLENE CHLORIDE	5.485	84	347660	10.2383	PPBV	96
32) 3-CHLOROPROPENE	5.589	76	174222	10.3758	PPBV	99
33) FREON 113	5.711	151	649719	9.5504	PPBV	94
34) TRANS-1,2-DICHLOROETHY...	6.342	96	388435	9.9198	PPBV	96
35) TERTIARY BUTYL ALCOHOL	5.442	59	734550	10.1065	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.598	73	1023326	9.8618	PPBV	99
37) TETRAHYDROFURAN	8.134	72	171172	12.2978	PPBV	97
38) HEXANE	7.596	57	648355	10.8409	PPBV	97
39) VINYL ACETATE	6.702	86	71604	11.6306	PPBV #	88
40) 1,1-DICHLOROETHANE	6.537	63	738610	10.7890	PPBV	99
41) METHYL ETHYL KETONE	6.947	72	180100	12.7940	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.388	96	420386	10.1671	PPBV	97
43) DIISOPROPYL ETHER	7.608	59	192597	12.6671	PPBV	99
44) ETHYL ACETATE	7.645	61	143284	13.2238	PPBV #	38
45) METHYL ACRYLATE	7.626	55	783993	11.8307	PPBV	99
46) CHLOROFORM	7.706	83	866546	10.7091	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.556	57	717002	10.6390	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.770	97	872871	10.2561	PPBV	99
49) CARBON TETRACHLORIDE	9.462	117	951308	9.9414	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57176.D
Acq On : 4 Mar 2025 7:43 pm
Operator : thomash
Sample : bs Inst : GCMS5W
Misc : MS89870,V5W2194,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:17:35 2025

Quant Method : C:\msdchem\1\methods\M5w2187.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 14:22:14 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.501	62	599271	10.7965	PPBV	100
52) BENZENE	9.290	78	1196596	10.6734	PPBV	100
53) CYCLOHEXANE	9.596	84	474244	10.3948	PPBV	97
54) 2,3-DIMETHYLPENTANE	9.896	71	242188	10.6464	PPBV	97
55) TRICHLOROETHYLENE	10.551	95	584590	10.1002	PPBV	94
56) 1,2-DICHLOROPROPANE	10.257	63	482500	10.4299	PPBV	97
57) DIBROMOMETHANE	10.232	174	586825	9.0099	PPBV	94
58) ETHYL ACRYLATE	10.312	55	936362	12.6309	PPBV	99
59) BROMODICHLOROMETHANE	10.502	83	1001490	10.2756	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.581	57	1938923	10.9969	PPBV	99
61) 1,4-DIOXANE	10.563	88	282523	11.1311	PPBV	98
62) HEPTANE	10.930	43	643134	10.6912	PPBV	99
63) METHYL METHACRYLATE	10.838	69	419791	12.0578	PPBV	97
64) METHYL ISOBUTYL KETONE	11.688	58	392200	12.0625	PPBV	97
65) cis-1,3-DICHLOROPROPENE	11.627	75	781997	10.6888	PPBV	98
66) TOLUENE	12.863	92	847383	10.1814	PPBV	98
67) 1,3-DICHLOROPROPANE	12.912	76	710548	10.8831	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.312	75	691557	10.3849	PPBV	100
69) 1,1,2-TRICHLOROETHANE	12.514	83	486520	10.7053	PPBV	97
71) 2-HEXANONE	13.261	58	566326	12.6277	PPBV	99
72) ETHYL METHACRYLATE	13.291	69	738019	11.3069	PPBV	99
73) TETRACHLOROETHYLENE	14.368	164	647288	9.1540	PPBV	99
74) DIBROMOCHLOROMETHANE	13.414	129	1065246	9.3366	PPBV	99
75) 1,2-DIBROMOETHANE	13.726	107	904347	9.9791	PPBV	100
76) OCTANE	14.233	43	944925	10.1980	PPBV	98
77) 1,1,1,2-TETRACHLOROETHANE	15.292	131	720252	9.5140	PPBV	96
78) CHLOROBENZENE	15.310	112	1220384	9.5608	PPBV	98
79) ETHYLBENZENE	15.867	91	1910542	9.9869	PPBV	98
80) m,p-XYLENE	16.118	106	1452340	18.9042	PPBV	96
81) o-XYLENE	16.809	106	717362	9.7423	PPBV	96
82) STYRENE	16.656	104	1118097	9.8865	PPBV	99
83) NONANE	17.219	43	957485	9.4868	PPBV	100
84) BROMOFORM	16.191	173	1176081	10.2932	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	16.809	83	1273435	10.5183	PPBV	98
87) 1,2,3-TRICHLOROPROPANE	17.005	75	861193	9.6418	PPBV	96
88) ISOPROPYLBENZENE	17.720	105	2032813	9.3116	PPBV	98
89) BROMOBENZENE	17.812	77	1029261	9.1993	PPBV	95
90) 2-CHLOROTOLUENE	18.455	126	539567	8.8013	PPBV	99
91) n-PROPYLBENZENE	18.540	120	564749	9.2216	PPBV	99
92) 4-ETHYLTOLUENE	18.791	105	2066737	9.7056	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	18.926	105	1701338	9.1779	PPBV	98
94) ALPHA-METHYLSTYRENE	19.170	118	877953	9.2585	PPBV	99
95) tert-BUTYLBENZENE	19.531	134	403196	9.6632	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	19.544	105	1846562	10.0398	PPBV	97
97) m-DICHLOROBENZENE	19.739	146	1341829	9.0668	PPBV	100
98) BENZYL CHLORIDE	19.733	91	1637596	10.3268	PPBV	98
99) p-DICHLOROBENZENE	19.843	146	1319231	8.6906	PPBV	100
100) sec-BUTYLBENZENE	19.941	134	475381	9.3162	PPBV	89
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	1769603	9.2394	PPBV #	98
102) p-ISOPROPYLTOLUENE	20.186	134	547660	9.3452	PPBV	96
103) o-DICHLOROBENZENE	20.327	146	1226060	8.6612	PPBV	100
104) n-BUTYLBENZENE	20.785	134	546965	9.6064	PPBV #	84
105) HEXACHLOROETHANE	21.244	117	920753	10.2495	PPBV	100
106) HEXACHLOROBUTADIENE	23.190	225	1317746	9.9588	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.055	180	1196389	10.0837	PPBV	99
108) NAPHTHALENE	22.737	128	2591490	9.7572	PPBV	100
110) TVHC as equiv Pentane	5.130	TIC	2976570	12.2306	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57176.D
Acq On : 4 Mar 2025 7:43 pm
Operator : thomash
Sample : bs Inst : GCMS5W
Misc : MS89870,V5W2194,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:17:35 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

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

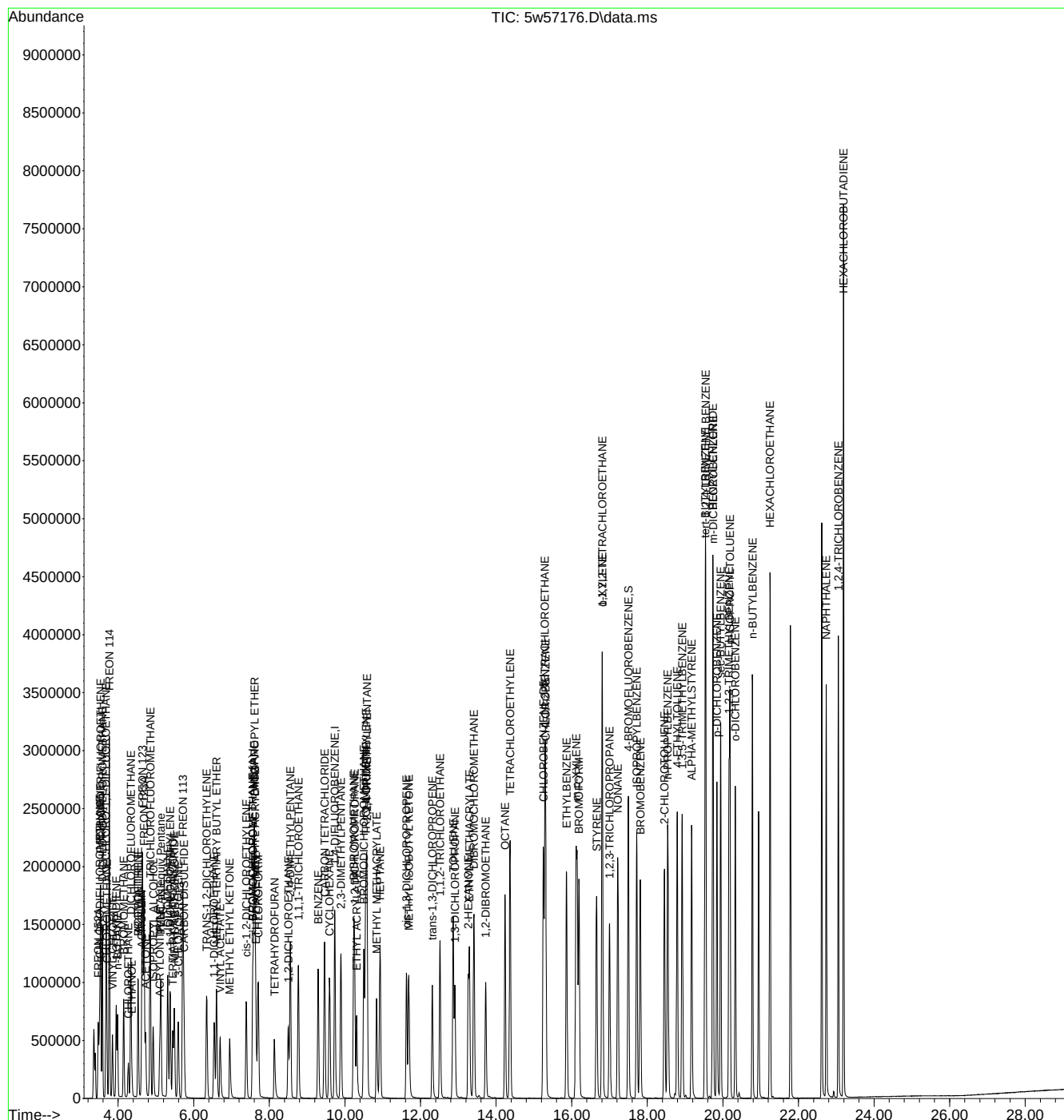
7.3.3

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Quantitation Report (QT Reviewed)

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Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57176.D
Acq On    : 4 Mar 2025    7:43 pm
Operator  : thomash
Sample    : bs
Misc      : MS89870,V5W2194,,,,,1
ALS Vial  : 2    Sample Multiplier: 1
Inst      : GCMS5W
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Quant Time: Mar 05 16:17:35 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57177.D
Acq On : 4 Mar 2025 8:33 pm
Operator : thomash
Sample : bsd Inst : GCMS5W
Misc : MS89870,V5W2194,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:17:46 2025

Quant Method : C:\msdchem\1\methods\M5w2187.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 14:22:14 2025

Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.559	128	354027	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.731	114	1619106	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	876419	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.559	128	354027	10.00	PPBV	#-0.01

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	17.500	95	1103787	9.77	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	97.70%

Target Compounds

Qvalue

3) FREON 152A	3.472	65	281129	10.2564	PPBV	98
4) CHLORODIFLUOROMETHANE	3.503	67	132522	10.6255	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.534	116	647986	10.5235	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.582	85	1267709	11.3149	PPBV	99
7) PROPYLENE	3.527	41	296734	9.6583	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.680	65	1239503	13.0865	PPBV	99
9) FREON 114	3.760	85	1570444	13.1834	PPBV	95
10) CHLOROMETHANE	3.693	52	172886	12.1297	PPBV	100
11) VINYL CHLORIDE	3.852	62	576486	12.8766	PPBV	99
12) 1,3-BUTADIENE	3.943	54	389070	13.5993	PPBV	98
13) n-BUTANE	3.980	43	621479	13.3409	PPBV	98
14) BROMOMETHANE	4.145	94	580826	12.0999	PPBV	100
15) CHLOROETHANE	4.268	64	265035	12.2349	PPBV	99
16) DICHLOROFLUOROMETHANE	4.329	67	1216554	13.2909	PPBV	100
17) ACETONITRILE	4.525	41	337959	12.5691	PPBV	99
18) ACROLEIN	4.616	56	222471	14.5277	PPBV	99
19) FREON 123	4.641	83	1319182	13.2734	PPBV	97
20) FREON 123A	4.684	117	743172	11.8940	PPBV	87
21) TRICHLOROFLUOROMETHANE	4.843	101	1392635	12.6715	PPBV	100
22) ISOPROPYL ALCOHOL	4.922	45	861847	11.8562	PPBV	99
23) ACETONE	4.720	58	231952	12.7441	PPBV #	1
24) PENTANE	5.130	42	412908	12.4643	PPBV	94
25) IODOMETHANE	5.308	142	1288190	11.4299	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.375	96	381035	10.3250	PPBV	93
27) CARBON DISULFIDE	5.742	76	1084199	10.9182	PPBV	99
28) ETHANOL	4.359	45	234363	12.9591	PPBV	99
29) BROMOETHENE	4.525	106	569584	12.5087	PPBV	99
30) ACRYLONITRILE	5.100	52	321077	13.6935	PPBV	98
31) METHYLENE CHLORIDE	5.485	84	355291	10.3925	PPBV	96
32) 3-CHLOROPROPENE	5.583	76	177117	10.4771	PPBV	99
33) FREON 113	5.711	151	667294	9.7426	PPBV	94
34) TRANS-1,2-DICHLOROETHYLENE	6.342	96	396883	10.0672	PPBV	95
35) TERTIARY BUTYL ALCOHOL	5.436	59	738530	10.0927	PPBV	100
36) METHYL TERTIARY BUTYL ETHER	6.598	73	1041227	9.9667	PPBV	99
37) TETRAHYDROFURAN	8.128	72	173983	12.4155	PPBV	98
38) HEXANE	7.596	57	653578	10.8546	PPBV	98
39) VINYL ACETATE	6.696	86	73009	11.7789	PPBV #	86
40) 1,1-DICHLOROETHANE	6.537	63	754734	10.9502	PPBV	100
41) METHYL ETHYL KETONE	6.947	72	183008	12.9129	PPBV	99
42) cis-1,2-DICHLOROETHYLENE	7.388	96	426880	10.2545	PPBV	97
43) DIISOPROPYL ETHER	7.608	59	196090	12.8099	PPBV	98
44) ETHYL ACETATE	7.638	61	144556	13.2513	PPBV #	95
45) METHYL ACRYLATE	7.626	55	799297	11.9804	PPBV	98
46) CHLOROFORM	7.700	83	882557	10.8334	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.556	57	726882	10.7129	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.764	97	885611	10.3356	PPBV	98
49) CARBON TETRACHLORIDE	9.455	117	978806	10.1598	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57177.D
Acq On : 4 Mar 2025 8:33 pm
Operator : thomash
Sample : bsd Inst : GCMS5W
Misc : MS89870,V5W2194,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:17:46 2025

Quant Method : C:\msdchem\1\methods\M5w2187.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 14:22:14 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.495	62	611667	10.9455	PPBV	100
52) BENZENE	9.290	78	1214000	10.8219	PPBV	100
53) CYCLOHEXANE	9.590	84	485649	10.6382	PPBV	98
54) 2,3-DIMETHYLPENTANE	9.896	71	244843	10.7565	PPBV	97
55) TRICHLOROETHYLENE	10.544	95	596081	10.2924	PPBV	94
56) 1,2-DICHLOROPROPANE	10.257	63	486406	10.5079	PPBV	98
57) DIBROMOMETHANE	10.232	174	602783	9.2492	PPBV	95
58) ETHYL ACRYLATE	10.306	55	950860	12.8185	PPBV	99
59) BROMODICHLOROMETHANE	10.502	83	1021835	10.4779	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.581	57	1966068	11.1439	PPBV	99
61) 1,4-DIOXANE	10.563	88	279798	11.0169	PPBV #	87
62) HEPTANE	10.930	43	652261	10.8362	PPBV	99
63) METHYL METHACRYLATE	10.838	69	426112	12.2319	PPBV	98
64) METHYL ISOBUTYL KETONE	11.688	58	393584	12.0977	PPBV	97
65) cis-1,3-DICHLOROPROPENE	11.627	75	793984	10.8460	PPBV	99
66) TOLUENE	12.863	92	862010	10.3508	PPBV	98
67) 1,3-DICHLOROPROPANE	12.906	76	723474	11.0742	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.306	75	705194	10.5832	PPBV	99
69) 1,1,2-TRICHLOROETHANE	12.514	83	491208	10.8018	PPBV	97
71) 2-HEXANONE	13.255	58	562281	12.5380	PPBV	100
72) ETHYL METHACRYLATE	13.291	69	741419	11.3595	PPBV	99
73) TETRACHLOROETHYLENE	14.368	164	653897	9.2479	PPBV	99
74) DIBROMOCHLOROMETHANE	13.408	129	1092632	9.5771	PPBV	99
75) 1,2-DIBROMOETHANE	13.726	107	923936	10.1957	PPBV	100
76) OCTANE	14.233	43	947586	10.2272	PPBV	98
77) 1,1,1,2-TETRACHLOROETHANE	15.292	131	729923	9.6422	PPBV	96
78) CHLOROBENZENE	15.310	112	1237969	9.6990	PPBV	97
79) ETHYLBENZENE	15.861	91	1940308	10.1430	PPBV	98
80) m,p-XYLENE	16.118	106	1473631	19.1822	PPBV	95
81) o-XYLENE	16.809	106	727011	9.8738	PPBV	95
82) STYRENE	16.656	104	1130343	9.9952	PPBV	99
83) NONANE	17.219	43	960709	9.5192	PPBV	99
84) BROMOFORM	16.191	173	1204720	10.5443	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.809	83	1282283	10.5918	PPBV	98
87) 1,2,3-TRICHLOROPROPANE	16.999	75	867150	9.7089	PPBV	96
88) ISOPROPYLBENZENE	17.720	105	2062119	9.4463	PPBV	98
89) BROMOBENZENE	17.812	77	1039391	9.2902	PPBV	95
90) 2-CHLOROTOLUENE	18.455	126	548762	8.9516	PPBV	100
91) n-PROPYLBENZENE	18.540	120	573081	9.3580	PPBV	99
92) 4-ETHYLTOLUENE	18.791	105	2088265	9.8072	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	18.926	105	1729074	9.3279	PPBV	99
94) ALPHA-METHYLSTYRENE	19.170	118	882012	9.3017	PPBV	99
95) tert-BUTYLBENZENE	19.531	134	404842	9.7031	PPBV	98
96) 1,2,4-TRIMETHYLBENZENE	19.544	105	1844961	10.0315	PPBV	98
97) m-DICHLOROBENZENE	19.739	146	1359578	9.1871	PPBV	100
98) BENZYL CHLORIDE	19.733	91	1655018	10.4372	PPBV	97
99) p-DICHLOROBENZENE	19.843	146	1323030	8.7160	PPBV	100
100) sec-BUTYLBENZENE	19.941	134	479348	9.3943	PPBV	90
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	1789676	9.3446	PPBV #	98
102) p-ISOPROPYLTOLUENE	20.186	134	552085	9.4211	PPBV	97
103) o-DICHLOROBENZENE	20.327	146	1223785	8.6455	PPBV	100
104) n-BUTYLBENZENE	20.785	134	542163	9.5225	PPBV #	83
105) HEXACHLOROETHANE	21.244	117	936430	10.4245	PPBV	99
106) HEXACHLOROBUTADIENE	23.190	225	1300660	9.8301	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.055	180	1161857	9.7931	PPBV	99
108) NAPHTHALENE	22.737	128	2521163	9.4928	PPBV	100
110) TVHC as equiv Pentane	5.124	TIC	3001800	12.2511	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5W57177.D
Acq On : 4 Mar 2025 8:33 pm
Operator : thomash
Sample : bsd Inst : GCMS5W
Misc : MS89870,V5W2194,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:17:46 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

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

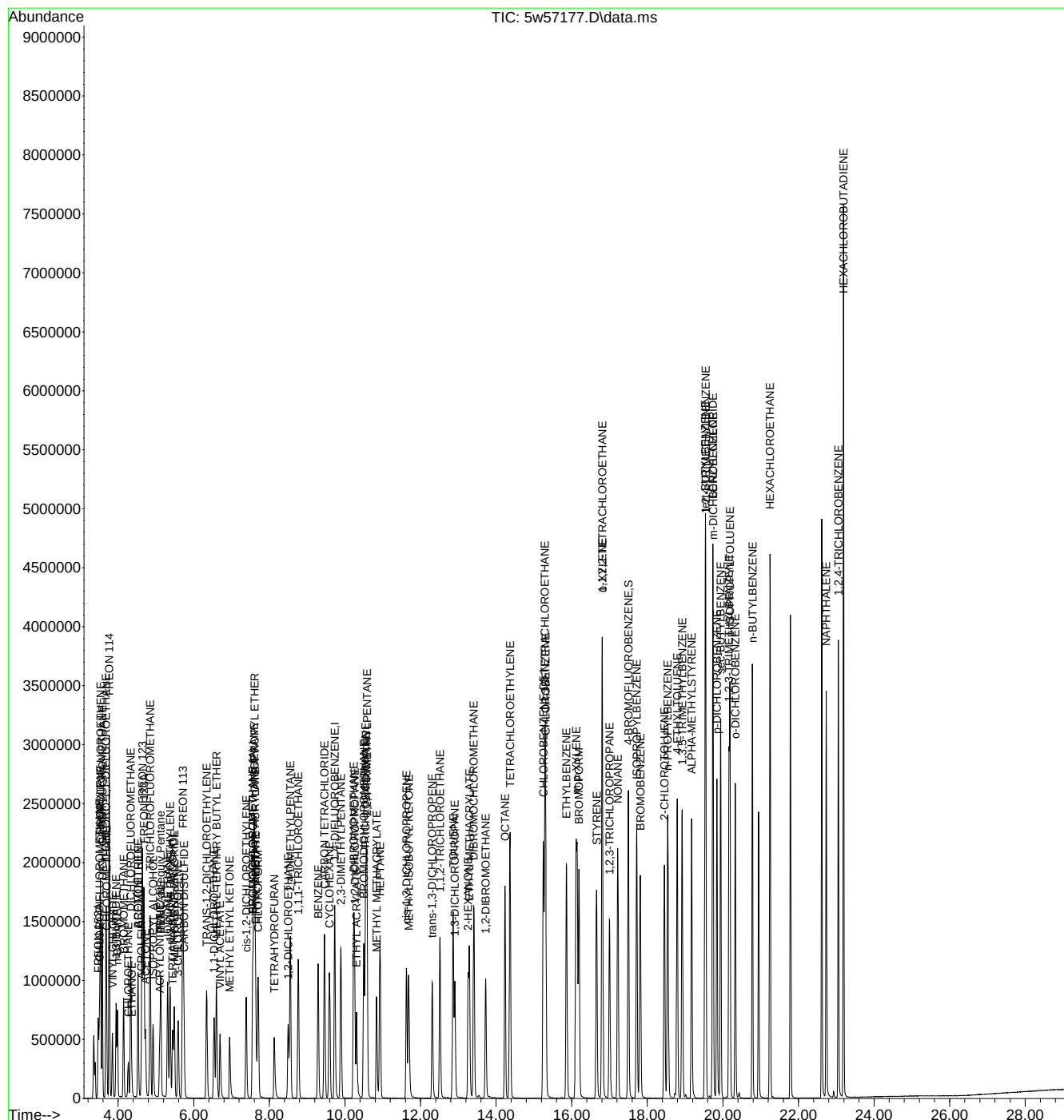
7.3.4

7

Quantitation Report (QT Reviewed)

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Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57177.D
Acq On    : 4 Mar 2025    8:33 pm
Operator  : thomash
Sample    : bsd
Misc      : MS89870,V5W2194,,,,,1
ALS Vial  : 2    Sample Multiplier: 1
Inst      : GCMS5W
```

Quant Time: Mar 05 16:17:46 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V7W465\
 Data File : 7w13220.D
 Acq On : 6 Mar 2025 1:10 pm
 Operator : williamc
 Sample : bs Inst : MS7W
 Misc : MS89682,v7w465,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 16:52:03 2025

Quant Method : C:\msdchem\1\methods\M7W405.M

Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um

QLast Update : Sun Dec 29 19:41:17 2024

Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.232	128	133739	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.499	114	639819	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.036	117	599747	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.232	128	133739	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.386	95	437584	10.06	PPBV	0.00
Target Compounds						
					Qvalue	
3) FREON 152A	1.628	65	70677	11.0974	PPBV	90
4) CHLORODIFLUOROMETHANE	1.640	67	29117	9.0058	PPBV	99
5) CHLOROTRIFLUOROETHENE	1.653	116	169741	10.8990	PPBV	88
6) DICHLORODIFLUOROMETHANE	1.669	85	326399	9.7884	PPBV	97
7) PROPYLENE	1.650	41	91836	10.4639	PPBV	96
8) 1-CHLORO-1,1-DIFLUOROE...	1.705	65	204105	8.2643	PPBV	95
9) FREON 114	1.740	85	276818	10.4656	PPBV	95
10) CHLOROMETHANE	1.711	52	31572	9.1205	PPBV	98
11) VINYL CHLORIDE	1.772	62	117183	10.4762	PPBV	99
12) 1,3-BUTADIENE	1.811	54	91879	9.6402	PPBV	87
13) N-BUTANE	1.827	43	154649	8.9160	PPBV	97
14) BROMOMETHANE	1.888	94	104338	10.4338	PPBV	99
15) CHLOROETHANE	1.936	64	62014	10.2447	PPBV	88
16) DICHLOROFLUOROMETHANE	1.962	67	228225	9.6783	PPBV	98
17) ACETONITRILE	2.030	41	91331	8.4967	PPBV	96
18) ACRYLONITRILE	2.068	56	54641	9.6785	PPBV	98
19) FREON 123	2.081	83	263130	10.3402	PPBV	96
20) FREON 123A	2.100	117	167309	10.5600	PPBV	95
21) TRICHLOROFLUOROMETHANE	2.165	101	274836	9.3590	PPBV	99
22) ISOPROPYL ALCOHOL	2.181	45	217982	8.7981	PPBV	97
23) ACETONE	2.107	58	63112	8.1222	PPBV	68
24) PENTANE	2.280	42	116308	9.7731	PPBV	94
25) IODOMETHANE	2.341	142	309690	11.5072	PPBV	92
26) 1,1-DICHLOROETHYLENE	2.367	96	115191	9.9336	PPBV	85
27) CARBON DISULFIDE	2.502	76	288350	9.9851	PPBV	94
28) ETHANOL	1.965	45	56510	8.3319	PPBV	99
29) BROMOETHENE	2.036	106	110751	10.3955	PPBV	97
30) ACRYLONITRILE	2.248	52	84645	8.8013	PPBV	96
31) METHYLENE CHLORIDE	2.402	84	99912	9.4387	PPBV	87
32) 3-CHLOROPROPENE	2.447	76	50206	9.1170	PPBV	80
33) FREON 113	2.499	151	194931	11.1022	PPBV	90
34) TRANS-1,2-DICHLOROETHENE	2.727	96	125125	10.3651	PPBV	90
35) TERTIARY BUTYL ALCOHOL	2.383	59	220405	7.7351	PPBV	95
36) METHYL TERTIARY BUTYL ...	2.833	73	321252	9.3061	PPBV	98
37) TETRAHYDROFURAN	3.515	72	58160	10.8723	PPBV	99
38) HEXANE	3.283	57	228235	10.3621	PPBV	90
39) VINYL ACETATE	2.869	86	31828	9.7414	PPBV	97
40) 1,1-DICHLOROETHANE	2.801	63	229491	10.6248	PPBV	100
41) METHYL ETHYL KETONE	2.962	72	62885	10.5836	PPBV	96
42) CIS-1,2-DICHLOROETHENE	3.158	96	136543	10.9814	PPBV	95
43) DIISOPROPYL ETHER	3.290	59	64682	10.6038	PPBV	94
44) ETHYL ACETATE	3.293	61	46407	10.9966	PPBV	87
45) METHYL ACRYLATE	3.280	55	264076	10.6716	PPBV #	99
46) CHLOROFORM	3.306	83	250365	10.2421	PPBV	97
47) 2,4-DIMETHYLPENTANE	3.791	57	265842	10.9164	PPBV	98
48) 1,1,1-TRICHLOROETHANE	3.869	97	253911	9.6862	PPBV	98
49) CARBON TETRACHLORIDE	4.290	117	266604	10.2548	PPBV	97
50) 1,2-DICHLOROETHANE	3.708	62	173767	9.4946	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V7W465\
Data File : 7w13220.D
Acq On : 6 Mar 2025 1:10 pm
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS89682,v7w465,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 16:52:03 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) BENZENE	4.177	78	382060	10.6965	PPBV	98
53) CYCLOHEXANE	4.383	84	173239	11.4603	PPBV	97
54) 2,3-DIMETHYLPENTANE	4.637	71	87293	10.9987	PPBV	93
55) TRICHLOROETHENE	5.068	95	177721	10.9273	PPBV	97
56) 1,2-DICHLOROPROPANE	4.836	63	156650	11.2900	PPBV	94
57) DIBROMOMETHANE	4.795	174	173259	11.3375	PPBV	88
58) ETHYL ACRYLATE	4.952	55	325446	11.0389	PPBV	100
59) BROMODICHLOROMETHANE	5.013	83	273862	10.5693	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	5.161	57	714131	11.6073	PPBV	99
61) 1,4-DIOXANE	5.081	88	98523	10.8642	PPBV	98
62) HEPTANE	5.473	43	243577	11.2654	PPBV	98
63) METHYL METHACRYLATE	5.373	69	144537	10.4013	PPBV	95
64) METHYL ISOBUTYL KETONE	6.100	58	140182	10.8599	PPBV	90
65) CIS-1,3-DICHLOROPROPENE	5.994	75	227400	10.4652	PPBV	89
66) TOLUENE	7.190	91	481705	10.6549	PPBV	100
67) 1,3-DICHLOROPROPANE	7.251	76	229586	10.8735	PPBV	99
68) TRANS-1,3-DICHLOROPROPENE	6.669	75	192543	9.4258	PPBV	91
69) 1,1,2-TRICHLOROETHANE	6.824	83	140731	11.3245	PPBV	98
70) 2-HEXANONE	7.759	58	192526	9.5515	PPBV	88
71) ETHYL METHACRYLATE	7.891	69	236881	9.8050	PPBV	96
72) TETRACHLOROETHENE	8.910	164	202221	11.8054	PPBV	95
73) DIBROMOCHLOROMETHANE	7.721	129	297776	11.4050	PPBV	100
74) 1,2-DIBROMOETHANE	8.061	107	270240	11.8789	PPBV	100
75) OCTANE	9.061	43	340031	11.0995	PPBV	98
77) 1,1,1,2-TETRACHLOROETHANE	10.122	131	215016	11.2172	PPBV	96
78) CHLOROBENZENE	10.113	112	411227	11.7831	PPBV	97
79) ETHYLBENZENE	10.991	91	637695	10.7953	PPBV	97
80) M,P-XYLENE	11.421	91	985416	21.2804	PPBV	98
81) O-XYLENE	12.347	91	503717	10.8310	PPBV	96
82) STYRENE	12.135	104	402993	12.0989	PPBV	97
83) NONANE	13.466	43	349364	10.9365	PPBV	96
84) BROMOFORM	11.228	173	302490	13.1563	PPBV	98
85) 1,1,2,2-TETRACHLOROETHANE	12.360	83	368145	11.8945	PPBV	98
86) 1,2,3-TRICHLOROPROPANE	12.643	75	269508	10.9146	PPBV	100
88) ISOPROPYLBENZENE	13.859	120	205908	11.5892	PPBV	91
89) BROMOBENZENE	13.727	77	339840	10.2607	PPBV	90
90) 2-CHLOROTOLUENE	14.852	126	185841	11.4984	PPBV	99
91) N-PROPYLBENZENE	15.196	120	214876	11.9321	PPBV	98
92) 4-ETHYLTOLUENE	15.640	105	734306	11.3687	PPBV	97
93) 1,3,5-TRIMETHYLBENZENE	15.913	105	606095	11.1502	PPBV	96
94) ALPHA-METHYLSTYRENE	16.215	118	320058	11.5292	PPBV	99
95) TERT-BUTYLBENZENE	16.527	134	154475	11.8738	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	16.537	105	616961	11.2524	PPBV	95
97) BENZYL CHLORIDE	16.627	91	420209	8.6550	PPBV	98
98) M-DICHLOROBENZENE	16.598	146	437563	11.7001	PPBV	98
99) P-DICHLOROBENZENE	16.691	146	442502	12.1571	PPBV	98
100) O-DICHLOROBENZENE	17.006	146	415176	11.7569	PPBV	98
101) SEC-BUTYLBENZENE	16.836	134	190100	11.7257	PPBV	98
102) 1,2,3-TRIMETHYLBENZENE	16.955	105	590369	10.7494	PPBV	97
103) P-ISOPROPYLTOLUENE	17.029	134	205705	11.4459	PPBV	97
104) N-BUTYLBENZENE	17.392	134	202762	11.5473	PPBV	96
105) HEXACHLOROETHANE	17.572	117	243074	11.6199	PPBV	94
106) HEXACHLOROBTADIENE	18.627	225	328937	12.5218	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.315	180	364560	12.0775	PPBV	98
108) NAPHTHALENE	18.363	128	763985	11.4037	PPBV	99
110) TVHC as equiv Pentane	2.280	TIC	548991	9.6676	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V7W465\
Data File : 7w13220.D
Acq On : 6 Mar 2025 1:10 pm
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS89682,v7w465,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 16:52:03 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

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

7.3.5

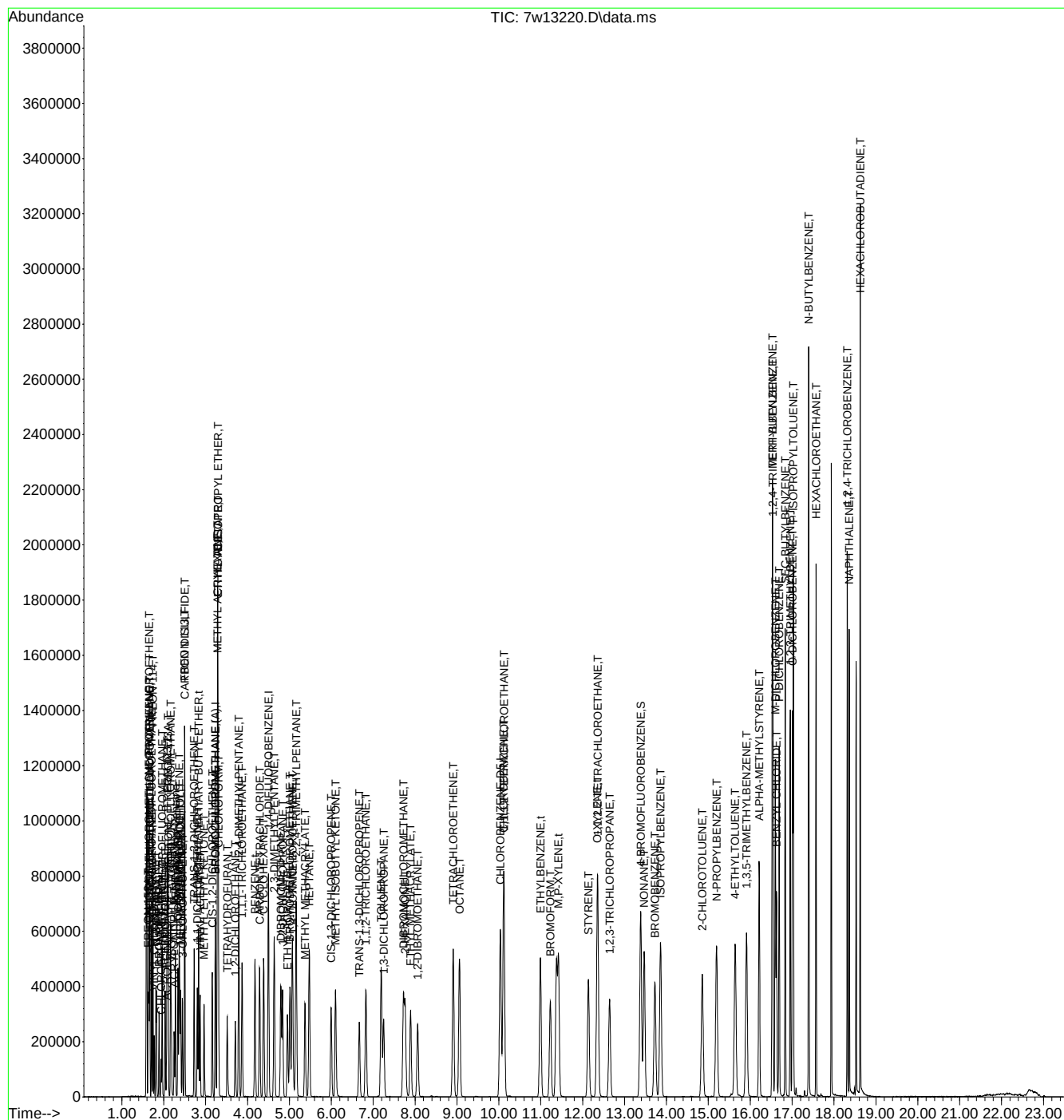
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Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V7W465\
Data File : 7w13220.D
Acq On : 6 Mar 2025 1:10 pm
Operator : williamc
Sample : bs
Misc : MS89682,v7w465,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Inst : MS7W

Quant Time: Mar 07 16:52:03 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V7W465\
Data File : 7w13221.D
Acq On : 6 Mar 2025 1:47 pm
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS89682,v7w465,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 16:52:15 2025

Quant Method : C:\msdchem\1\methods\M7W405.M

Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um

QLast Update : Sun Dec 29 19:41:17 2024

Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.232	128	133222	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.499	114	637579	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.036	117	600207	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.232	128	133222	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.386	95	436177	10.02	PPBV	0.00
Target Compounds						
					Qvalue	
3) FREON 152A	1.628	65	71762	11.3115	PPBV	90
4) CHLORODIFLUOROMETHANE	1.640	67	29619	9.1966	PPBV	99
5) CHLOROTRIFLUOROETHENE	1.650	116	172231	11.1018	PPBV	88
6) DICHLORODIFLUOROMETHANE	1.669	85	330604	9.9530	PPBV	97
7) PROPYLENE	1.650	41	92289	10.5563	PPBV	96
8) 1-CHLORO-1,1-DIFLUOROE...	1.705	65	205818	8.3660	PPBV	96
9) FREON 114	1.740	85	278450	10.5681	PPBV	94
10) CHLOROMETHANE	1.711	52	32939	9.5523	PPBV	94
11) VINYL CHLORIDE	1.772	62	119656	10.7388	PPBV	100
12) 1,3-BUTADIENE	1.811	54	93277	9.8249	PPBV	87
13) N-BUTANE	1.827	43	155993	9.0284	PPBV	96
14) BROMOMETHANE	1.888	94	106047	10.6458	PPBV	99
15) CHLOROETHANE	1.936	64	62649	10.3897	PPBV	87
16) DICHLOROFLUOROMETHANE	1.962	67	231792	9.8677	PPBV	98
17) ACETONITRILE	2.029	41	94626	8.8374	PPBV	97
18) ACROLEIN	2.068	56	55333	9.8391	PPBV	98
19) FREON 123	2.081	83	267862	10.5670	PPBV	96
20) FREON 123A	2.097	117	171211	10.8482	PPBV	94
21) TRICHLOROFLUOROMETHANE	2.164	101	279411	9.5517	PPBV	99
22) ISOPROPYL ALCOHOL	2.181	45	222105	8.9993	PPBV	98
23) ACETONE	2.107	58	64213	8.2959	PPBV	68
24) PENTANE	2.277	42	117905	9.9457	PPBV	93
25) IODOMETHANE	2.338	142	316095	11.7908	PPBV	93
26) 1,1-DICHLOROETHYLENE	2.367	96	117453	10.1679	PPBV	84
27) CARBON DISULFIDE	2.499	76	294440	10.2356	PPBV	94
28) ETHANOL	1.965	45	57277	8.4778	PPBV	99
29) BROMOETHENE	2.036	106	113664	10.7104	PPBV	97
30) ACRYLONITRILE	2.248	52	85725	8.9482	PPBV	96
31) METHYLENE CHLORIDE	2.402	84	101615	9.6368	PPBV	88
32) 3-CHLOROPROPENE	2.444	76	50670	9.2369	PPBV	82
33) FREON 113	2.499	151	197406	11.2868	PPBV	91
34) TRANS-1,2-DICHLOROETHENE	2.724	96	126004	10.4784	PPBV	89
35) TERTIARY BUTYL ALCOHOL	2.380	59	224962	7.9257	PPBV	95
36) METHYL TERTIARY BUTYL ...	2.830	73	329123	9.5711	PPBV	97
37) TETRAHYDROFURAN	3.512	72	59822	11.2264	PPBV	97
38) HEXANE	3.283	57	231246	10.5395	PPBV	90
39) VINYL ACETATE	2.869	86	32447	9.9694	PPBV	95
40) 1,1-DICHLOROETHANE	2.798	63	233274	10.8419	PPBV	99
41) METHYL ETHYL KETONE	2.962	72	63868	10.7907	PPBV	95
42) CIS-1,2-DICHLOROETHENE	3.158	96	137817	11.1269	PPBV	96
43) DIISOPROPYL ETHER	3.287	59	65908	10.8468	PPBV	94
44) ETHYL ACETATE	3.293	61	47607	11.3248	PPBV	84
45) METHYL ACRYLATE	3.277	55	268344	10.8862	PPBV #	99
46) CHLOROFORM	3.306	83	254405	10.4478	PPBV	96
47) 2,4-DIMETHYLPENTANE	3.791	57	270417	11.1473	PPBV	99
48) 1,1,1-TRICHLOROETHANE	3.869	97	258886	9.9143	PPBV	98
49) CARBON TETRACHLORIDE	4.287	117	271777	10.4944	PPBV	97
50) 1,2-DICHLOROETHANE	3.708	62	174460	9.5694	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V7W465\
Data File : 7w13221.D
Acq On : 6 Mar 2025 1:47 pm
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS89682,v7w465,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 16:52:15 2025

Quant Method : C:\msdchem\1\methods\M7W405.M

Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um

QLast Update : Sun Dec 29 19:41:17 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) BENZENE	4.177	78	389369	10.9435	PPBV	97
53) CYCLOHEXANE	4.383	84	174016	11.5521	PPBV	96
54) 2,3-DIMETHYLPENTANE	4.637	71	89380	11.3013	PPBV	95
55) TRICHLOROETHENE	5.068	95	180911	11.1626	PPBV	97
56) 1,2-DICHLOROPROPANE	4.836	63	158088	11.4337	PPBV	94
57) DIBROMOMETHANE	4.795	174	176296	11.5767	PPBV	88
58) ETHYL ACRYLATE	4.952	55	331214	11.2740	PPBV	100
59) BROMODICHLOROMETHANE	5.013	83	278715	10.7944	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	5.161	57	723562	11.8019	PPBV	99
61) 1,4-DIOXANE	5.081	88	100725	11.1460	PPBV	96
62) HEPTANE	5.473	43	247084	11.4677	PPBV	98
63) METHYL METHACRYLATE	5.373	69	147666	10.6638	PPBV	94
64) METHYL ISOBUTYL KETONE	6.097	58	142504	11.0786	PPBV	90
65) CIS-1,3-DICHLOROPROPENE	5.994	75	231631	10.6973	PPBV	90
66) TOLUENE	7.193	91	491179	10.9027	PPBV	100
67) 1,3-DICHLOROPROPANE	7.248	76	233452	11.0954	PPBV	99
68) TRANS-1,3-DICHLOROPROPENE	6.669	75	196546	9.6556	PPBV	91
69) 1,1,2-TRICHLOROETHANE	6.823	83	142514	11.5082	PPBV	98
70) 2-HEXANONE	7.759	58	196657	9.7907	PPBV	87
71) ETHYL METHACRYLATE	7.891	69	243317	10.1068	PPBV	96
72) TETRACHLOROETHENE	8.910	164	206654	12.1066	PPBV	95
73) DIBROMOCHLOROMETHANE	7.721	129	303409	11.6616	PPBV	100
74) 1,2-DIBROMOETHANE	8.061	107	274645	12.1149	PPBV	100
75) OCTANE	9.061	43	344957	11.2999	PPBV	98
77) 1,1,1,2-TETRACHLOROETHANE	10.126	131	219333	11.4336	PPBV	96
78) CHLOROBENZENE	10.113	112	421373	12.0646	PPBV	97
79) ETHYLBENZENE	10.991	91	652236	11.0330	PPBV	97
80) M,P-XYLENE	11.418	91	1003638	21.6573	PPBV	97
81) O-XYLENE	12.347	91	510075	10.9593	PPBV	97
82) STYRENE	12.138	104	406251	12.1874	PPBV	97
83) NONANE	13.470	43	354633	11.0929	PPBV	96
84) BROMOFORM	11.225	173	304722	13.2432	PPBV	98
85) 1,1,2,2-TETRACHLOROETHANE	12.360	83	374796	12.1002	PPBV	98
86) 1,2,3-TRICHLOROPROPANE	12.640	75	273938	11.0855	PPBV	100
88) ISOPROPYLBENZENE	13.859	120	209358	11.7743	PPBV	91
89) BROMOBENZENE	13.720	77	344474	10.3926	PPBV	89
90) 2-CHLOROTOLUENE	14.855	126	190189	11.7584	PPBV	100
91) N-PROPYLBENZENE	15.196	120	219190	12.1624	PPBV	98
92) 4-ETHYLTOLUENE	15.640	105	749080	11.5885	PPBV	97
93) 1,3,5-TRIMETHYLBENZENE	15.910	105	618611	11.3717	PPBV	96
94) ALPHA-METHYLSTYRENE	16.215	118	324377	11.6758	PPBV	99
95) TERT-BUTYLBENZENE	16.527	134	155268	11.9256	PPBV	96
96) 1,2,4-TRIMETHYLBENZENE	16.537	105	630456	11.4897	PPBV	95
97) BENZYL CHLORIDE	16.627	91	428152	8.8118	PPBV	98
98) M-DICHLOROBENZENE	16.598	146	443925	11.8611	PPBV	98
99) P-DICHLOROBENZENE	16.691	146	450131	12.3572	PPBV	98
100) O-DICHLOROBENZENE	17.010	146	422119	11.9443	PPBV	98
101) SEC-BUTYLBENZENE	16.836	134	193951	11.9540	PPBV	98
102) 1,2,3-TRIMETHYLBENZENE	16.955	105	601068	10.9358	PPBV	97
103) P-ISOPROPYLTOLUENE	17.029	134	209338	11.6391	PPBV	98
104) N-BUTYLBENZENE	17.392	134	206171	11.7325	PPBV	95
105) HEXACHLOROETHANE	17.569	117	247280	11.8119	PPBV	93
106) HEXACHLOROBUTADIENE	18.624	225	338286	12.8679	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.315	180	376222	12.4543	PPBV	99
108) NAPHTHALENE	18.363	128	781457	11.6555	PPBV	99
110) TVHC as equiv Pentane	2.277	TIC	557216	9.8506	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V7W465\
Data File : 7w13221.D
Acq On : 6 Mar 2025 1:47 pm
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS89682,v7w465,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 16:52:15 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

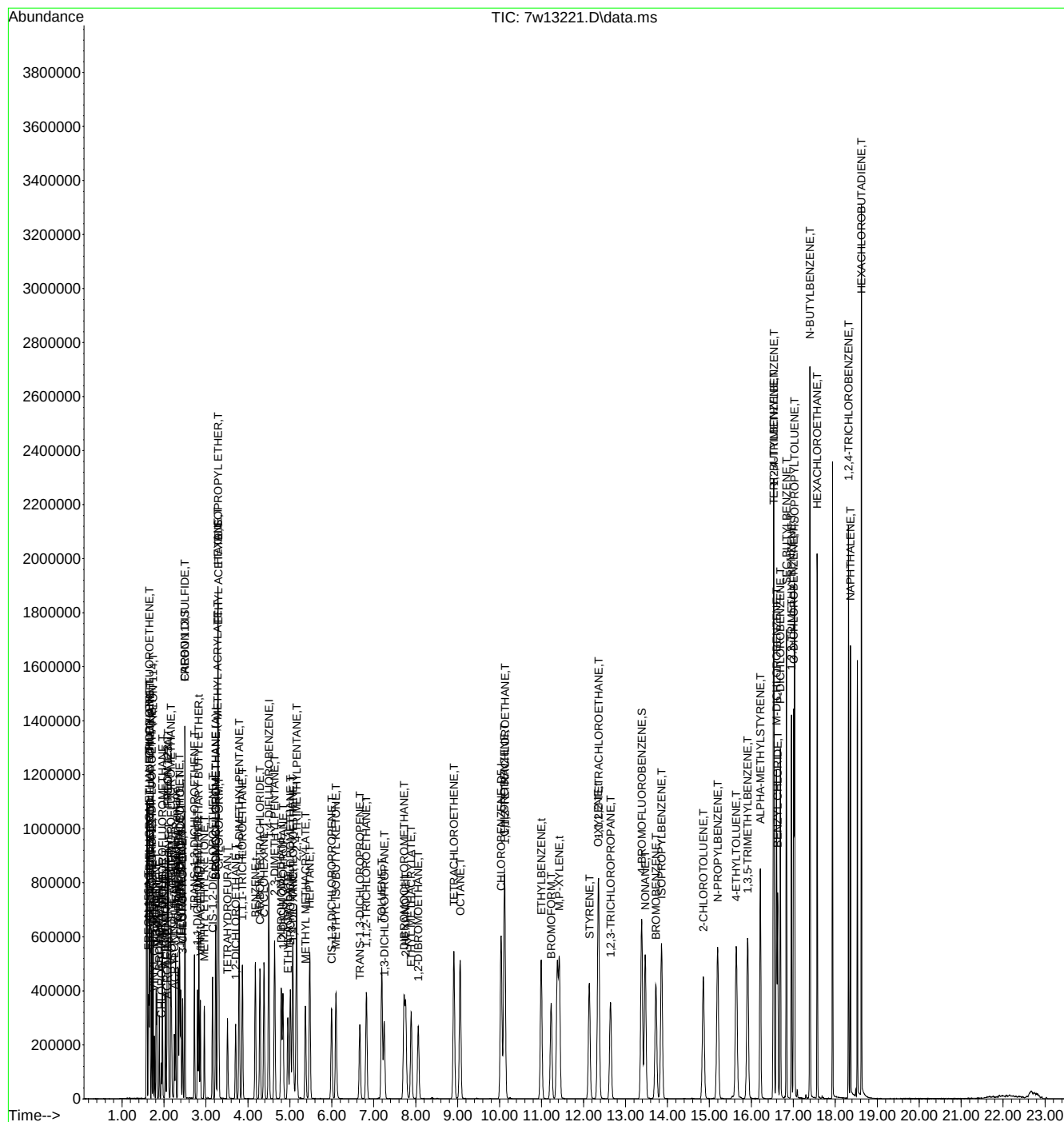
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

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Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-07-2025\V7w465\
Data File : 7w13221.D
Acq On    : 6 Mar 2025    1:47 pm
Operator  : williamc
Sample    : bsd                      Inst      : MS7W
Misc      : MS89682,v7w465,,,,,1
ALS Vial  : 1      Sample Multiplier: 1
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Quant Time: Mar 07 16:52:15 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
 Data File : 5w57223.D
 Acq On : 6 Mar 2025 2:01 pm
 Operator : thomash
 Sample : bs Inst : GCMS5W
 Misc : MS89870,V5W2196,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:46:25 2025
 Quant Method : C:\msdchem\1\methods\M5w2187.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Mon Feb 24 14:22:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.565	128	317690	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1456664	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	772807	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.565	128	317690	10.00	PPBV	# 0.00

System Monitoring Compounds
 85) 4-BROMOFLUOROBENZENE 17.500 95 975968 9.80 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 98.00%

Target Compounds					Qvalue	
3) FREON 152A	3.478	65	235130	9.5594	PPBV	94
4) CHLORODIFLUOROMETHANE	3.509	67	111356	9.9497	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.539	116	560032	10.1354	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.588	85	1085395	10.7957	PPBV	100
7) PROPYLENE	3.533	41	231720	8.4049	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHYLENE	3.686	65	1089748	12.8214	PPBV	98
9) FREON 114	3.772	85	1424791	13.3288	PPBV	95
10) CHLOROMETHANE	3.705	52	145626	11.3858	PPBV	100
11) VINYL CHLORIDE	3.858	62	479168	11.9270	PPBV	100
12) 1,3-BUTADIENE	3.955	54	311301	12.1255	PPBV	100
13) n-BUTANE	3.992	43	480392	11.4918	PPBV	98
14) BROMOMETHANE	4.151	94	531098	12.3295	PPBV	98
15) CHLOROETHANE	4.274	64	226019	11.6272	PPBV	99
16) DICHLOROFLUOROMETHANE	4.341	67	1069680	13.0229	PPBV	99
17) ACETONITRILE	4.531	41	265534	11.0051	PPBV	99
18) ACROLEIN	4.628	56	176862	12.8703	PPBV	97
19) FREON 123	4.647	83	1191054	13.3549	PPBV	98
20) FREON 123A	4.690	117	693581	12.3700	PPBV	94
21) TRICHLOROFLUOROMETHANE	4.855	101	1279397	12.9727	PPBV	100
22) ISOPROPYL ALCOHOL	4.934	45	780387	11.9635	PPBV	99
23) ACETONE	4.732	58	198299	12.1413	PPBV	# 1
24) PENTANE	5.136	42	298965	10.0570	PPBV	99
25) IODOMETHANE	5.320	142	1017893	10.0647	PPBV	97
26) 1,1-DICHLOROETHYLENE	5.387	96	340179	10.2723	PPBV	99
27) CARBON DISULFIDE	5.754	76	946586	10.6227	PPBV	99
28) ETHANOL	4.371	45	209208	12.8913	PPBV	98
29) BROMOETHENE	4.531	106	520397	12.7356	PPBV	99
30) ACRYLONITRILE	5.106	52	231992	11.0258	PPBV	100
31) METHYLENE CHLORIDE	5.491	84	316786	10.3260	PPBV	95
32) 3-CHLOROPROPENE	5.595	76	155764	10.2678	PPBV	88
33) FREON 113	5.717	151	572483	9.3144	PPBV	90
34) TRANS-1,2-DICHLOROETHYLENE	6.347	96	354592	10.0233	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.448	59	629287	9.5834	PPBV	98
36) METHYL TERTIARY BUTYL ETHER	6.604	73	912263	9.7310	PPBV	98
37) TETRAHYDROFURAN	8.134	72	153565	12.2119	PPBV	92
38) HEXANE	7.602	57	551803	10.2125	PPBV	96
39) VINYL ACETATE	6.702	86	64925	11.6727	PPBV	# 91
40) 1,1-DICHLOROETHANE	6.549	63	655278	10.5946	PPBV	100
41) METHYL ETHYL KETONE	6.953	72	159658	12.5539	PPBV	# 87
42) cis-1,2-DICHLOROETHYLENE	7.394	96	382325	10.2347	PPBV	100
43) DIISOPROPYL ETHER	7.608	59	169595	12.3463	PPBV	# 87
44) ETHYL ACETATE	7.644	61	125682	12.8389	PPBV	# 97
45) METHYL ACRYLATE	7.632	55	670101	11.1927	PPBV	99
46) CHLOROFORM	7.706	83	782698	10.7065	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.562	57	615891	10.1154	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.770	97	794483	10.3326	PPBV	99
49) CARBON TETRACHLORIDE	9.461	117	870259	10.0663	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
Data File : 5w57223.D
Acq On : 6 Mar 2025 2:01 pm
Operator : thomash
Sample : bs Inst : GCMS5W
Misc : MS89870,V5W2196,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:46:25 2025

Quant Method : C:\msdchem\1\methods\M5w2187.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 14:22:14 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.501	62	527745	10.5239	PPBV	99
52) BENZENE	9.296	78	1073947	10.6411	PPBV	99
53) CYCLOHEXANE	9.596	84	425951	10.3710	PPBV	98
54) 2,3-DIMETHYLPENTANE	9.896	71	215235	10.5102	PPBV	97
55) TRICHLOROETHYLENE	10.550	95	529592	10.1641	PPBV	94
56) 1,2-DICHLOROPROPANE	10.257	63	424596	10.1955	PPBV	98
57) DIBROMOMETHANE	10.232	174	489364	8.3463	PPBV	88
58) ETHYL ACRYLATE	10.312	55	797427	11.9489	PPBV	99
59) BROMODICHLOROMETHANE	10.501	83	905265	10.3178	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.581	57	1678273	10.5735	PPBV	100
61) 1,4-DIOXANE	10.569	88	253684	11.1026	PPBV #	85
62) HEPTANE	10.930	43	531961	9.8232	PPBV	94
63) METHYL METHACRYLATE	10.838	69	372277	11.8782	PPBV	91
64) METHYL ISOBUTYL KETONE	11.688	58	337254	11.5222	PPBV	92
65) cis-1,3-DICHLOROPROPENE	11.633	75	692413	10.5133	PPBV	96
66) TOLUENE	12.863	92	765660	10.2191	PPBV	99
67) 1,3-DICHLOROPROPANE	12.912	76	633126	10.7720	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.312	75	612811	10.2224	PPBV	96
69) 1,1,2-TRICHLOROETHANE	12.514	83	435819	10.6525	PPBV	97
71) 2-HEXANONE	13.260	58	482642	12.2051	PPBV	94
72) ETHYL METHACRYLATE	13.297	69	652749	11.3418	PPBV	94
73) TETRACHLOROETHYLENE	14.368	164	538600	8.6385	PPBV	95
74) DIBROMOCHLOROMETHANE	13.413	129	978034	9.7220	PPBV	100
75) 1,2-DIBROMOETHANE	13.725	107	821401	10.2794	PPBV	100
76) OCTANE	14.239	43	770513	9.4310	PPBV	97
77) 1,1,1,2-TETRACHLOROETHANE	15.298	131	647410	9.6988	PPBV	96
78) CHLOROBENZENE	15.310	112	1105606	9.8234	PPBV	98
79) ETHYLBENZENE	15.867	91	1715409	10.1696	PPBV	98
80) m,p-XYLENE	16.142	106	1303755	19.2462	PPBV	96
81) o-XYLENE	16.809	106	640741	9.8688	PPBV	95
82) STYRENE	16.656	104	1005064	10.0789	PPBV	99
83) NONANE	17.219	43	776620	8.7268	PPBV	97
84) BROMOFORM	16.197	173	990874	9.8354	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.809	83	1132344	10.6073	PPBV	98
87) 1,2,3-TRICHLOROPROPANE	17.005	75	756717	9.6084	PPBV	98
88) ISOPROPYLBENZENE	17.720	105	1826979	9.4912	PPBV	98
89) BROMOBENZENE	17.812	77	908200	9.2059	PPBV	91
90) 2-CHLOROTOLUENE	18.454	126	486009	8.9909	PPBV	100
91) n-PROPYLBENZENE	18.546	120	503609	9.3261	PPBV	98
92) 4-ETHYLTOLUENE	18.791	105	1852294	9.8653	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	18.925	105	1530248	9.3621	PPBV	98
94) ALPHA-METHYLSTYRENE	19.170	118	783355	9.3688	PPBV	98
95) tert-BUTYLBENZENE	19.531	134	355284	9.6570	PPBV	96
96) 1,2,4-TRIMETHYLBENZENE	19.549	105	1648546	10.1653	PPBV	97
97) m-DICHLOROBENZENE	19.739	146	1158835	8.8805	PPBV	99
98) BENZYL CHLORIDE	19.733	91	1459541	10.4385	PPBV	98
99) p-DICHLOROBENZENE	19.843	146	1131064	8.4504	PPBV	99
100) sec-BUTYLBENZENE	19.941	134	417974	9.2898	PPBV #	86
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	1590147	9.4160	PPBV #	98
102) p-ISOPROPYLTOLUENE	20.192	134	482714	9.3417	PPBV	94
103) o-DICHLOROBENZENE	20.333	146	1051976	8.4281	PPBV	99
104) n-BUTYLBENZENE	20.785	134	475364	9.4687	PPBV #	81
105) HEXACHLOROETHANE	21.250	117	831719	10.5002	PPBV	95
106) HEXACHLOROBUTADIENE	23.196	225	1021132	8.7522	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.061	180	951618	9.0964	PPBV	99
108) NAPHTHALENE	22.737	128	2257664	9.6404	PPBV	100
110) TVHC as equiv Pentane	5.136	TIC	2132305	9.6978	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
Data File : 5w57223.D
Acq On : 6 Mar 2025 2:01 pm
Operator : thomash
Sample : bs Inst : GCMS5W
Misc : MS89870,V5W2196,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:46:25 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

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

7.3.7

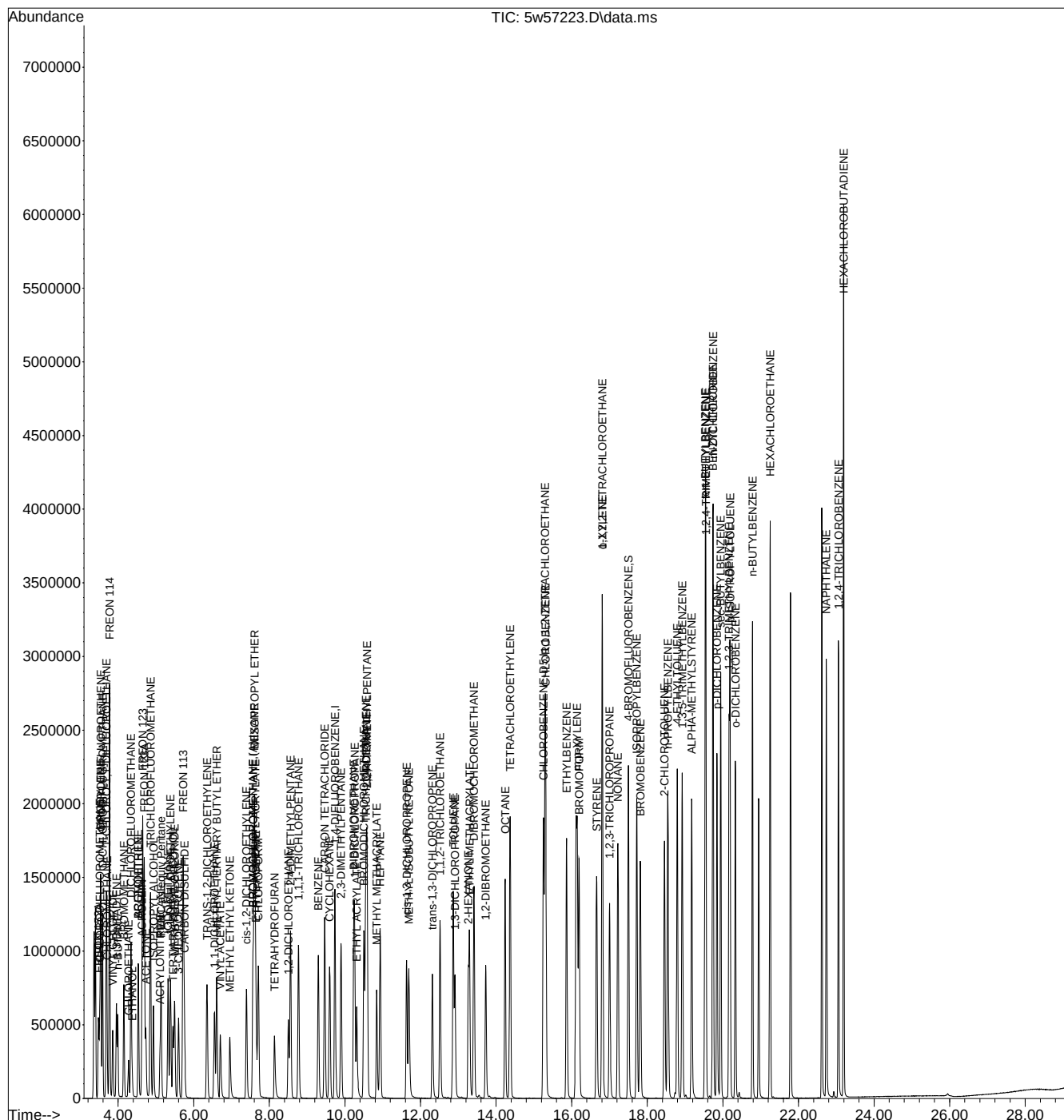
7

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
Data File : 5w57223.D
Acq On : 6 Mar 2025 2:01 pm
Operator : thomash
Sample : bs
Misc : MS89870,V5W2196,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Inst : GCMS5W

Quant Time: Mar 07 07:46:25 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w\Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
Data File : 5w57224.D
Acq On : 6 Mar 2025 2:44 pm
Operator : thomash
Sample : bsd Inst : GCMS5W
Misc : MS89870,V5W2196,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:46:34 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	326434	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1492419	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.255	82	792471	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.571	128	326434	10.00	PPBV	# 0.00

System Monitoring Compounds
85) 4-BROMOFLUOROBENZENE 17.500 95 1003312 9.82 PPBV 0.00
Spiked Amount 10.000 Range 65 - 128 Recovery = 98.20%

Target Compounds	Qvalue					
3) FREON 152A	3.478	65	234322	9.2714	PPBV	94
4) CHLORODIFLUOROMETHANE	3.515	67	111760	9.7183	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.540	116	561194	9.8844	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.588	85	1093738	10.5873	PPBV	99
7) PROPYLENE	3.533	41	231375	8.1676	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.686	65	1089881	12.4795	PPBV	98
9) FREON 114	3.772	85	1423697	12.9618	PPBV	95
10) CHLOROMETHANE	3.705	52	147123	11.1947	PPBV	# 82
11) VINYL CHLORIDE	3.858	62	482872	11.6973	PPBV	100
12) 1,3-BUTADIENE	3.956	54	310315	11.7634	PPBV	99
13) n-BUTANE	3.992	43	484529	11.2802	PPBV	98
14) BROMOMETHANE	4.151	94	531631	12.0112	PPBV	99
15) CHLOROETHANE	4.274	64	225106	11.2700	PPBV	99
16) DICHLOROFLUOROMETHANE	4.341	67	1067409	12.6472	PPBV	99
17) ACETONITRILE	4.537	41	263843	10.6421	PPBV	99
18) ACROLEIN	4.629	56	176871	12.5262	PPBV	97
19) FREON 123	4.647	83	1184201	12.9224	PPBV	98
20) FREON 123A	4.690	117	687140	11.9268	PPBV	92
21) TRICHLOROFLUOROMETHANE	4.855	101	1281202	12.6430	PPBV	100
22) ISOPROPYL ALCOHOL	4.934	45	759458	11.3308	PPBV	99
23) ACETONE	4.733	58	196298	11.6968	PPBV	# 1
24) PENTANE	5.136	42	300306	9.8315	PPBV	99
25) IODOMETHANE	5.326	142	1032473	9.9354	PPBV	97
26) 1,1-DICHLOROETHYLENE	5.387	96	343688	10.1002	PPBV	99
27) CARBON DISULFIDE	5.754	76	957960	10.4624	PPBV	99
28) ETHANOL	4.372	45	208076	12.4781	PPBV	98
29) BROMOETHENE	4.537	106	521419	12.4188	PPBV	99
30) ACRYLONITRILE	5.112	52	233048	10.7793	PPBV	99
31) METHYLENE CHLORIDE	5.497	84	316979	10.0556	PPBV	96
32) 3-CHLOROPROPENE	5.601	76	157809	10.1240	PPBV	88
33) FREON 113	5.724	151	586242	9.2828	PPBV	90
34) TRANS-1,2-DICHLOROETHYLENE	6.354	96	359259	9.8832	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.448	59	634580	9.4052	PPBV	98
36) METHYL TERTIARY BUTYL ETHER	6.611	73	918746	9.5377	PPBV	98
37) TETRAHYDROFURAN	8.134	72	154865	11.9854	PPBV	92
38) HEXANE	7.602	57	553978	9.9781	PPBV	96
39) VINYL ACETATE	6.709	86	66075	11.5612	PPBV	# 88
40) 1,1-DICHLOROETHANE	6.549	63	662110	10.4183	PPBV	100
41) METHYL ETHYL KETONE	6.953	72	160872	12.3105	PPBV	# 84
42) cis-1,2-DICHLOROETHYLENE	7.400	96	393264	10.2455	PPBV	98
43) DIISOPROPYL ETHER	7.614	59	170165	12.0560	PPBV	# 87
44) ETHYL ACETATE	7.651	61	125642	12.4910	PPBV	# 98
45) METHYL ACRYLATE	7.632	55	674883	10.9706	PPBV	100
46) CHLOROFORM	7.712	83	793962	10.5697	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.562	57	619223	9.8977	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.776	97	811393	10.2699	PPBV	99
49) CARBON TETRACHLORIDE	9.468	117	890722	10.0270	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
Data File : 5w57224.D
Acq On : 6 Mar 2025 2:44 pm
Operator : thomash
Sample : bsd Inst : GCMS5W
Misc : MS89870,V5W2196,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:46:34 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.507	62	533520	10.3541	PPBV	100
52) BENZENE	9.296	78	1087470	10.5169	PPBV	99
53) CYCLOHEXANE	9.596	84	432098	10.2686	PPBV	98
54) 2,3-DIMETHYLPENTANE	9.902	71	215407	10.2666	PPBV	98
55) TRICHLOROETHYLENE	10.550	95	534072	10.0045	PPBV	94
56) 1,2-DICHLOROPROPANE	10.263	63	427885	10.0283	PPBV	98
57) DIBROMOMETHANE	10.238	174	501704	8.3517	PPBV	89
58) ETHYL ACRYLATE	10.318	55	800093	11.7016	PPBV	99
59) BROMODICHLOROMETHANE	10.508	83	920747	10.2428	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.587	57	1682918	10.3487	PPBV	100
61) 1,4-DIOXANE	10.569	88	256019	10.9364	PPBV	99
62) HEPTANE	10.936	43	531030	9.5711	PPBV	93
63) METHYL METHACRYLATE	10.844	69	376092	11.7124	PPBV	91
64) METHYL ISOBUTYL KETONE	11.694	58	342095	11.4076	PPBV	92
65) cis-1,3-DICHLOROPROPENE	11.633	75	701443	10.3952	PPBV	96
66) TOLUENE	12.863	92	778106	10.1364	PPBV	99
67) 1,3-DICHLOROPROPANE	12.912	76	639270	10.6160	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.312	75	624094	10.1612	PPBV	96
69) 1,1,2-TRICHLOROETHANE	12.514	83	439310	10.4806	PPBV	98
71) 2-HEXANONE	13.261	58	487651	12.0258	PPBV	94
72) ETHYL METHACRYLATE	13.297	69	660328	11.1888	PPBV	94
73) TETRACHLOROETHYLENE	14.374	164	552119	8.6356	PPBV	95
74) DIBROMOCHLOROMETHANE	13.414	129	995291	9.6480	PPBV	100
75) 1,2-DIBROMOETHANE	13.726	107	836299	10.2062	PPBV	100
76) OCTANE	14.239	43	772021	9.2150	PPBV	96
77) 1,1,1,2-TETRACHLOROETHANE	15.298	131	662568	9.6796	PPBV	96
78) CHLOROBENZENE	15.310	112	1123301	9.7329	PPBV	98
79) ETHYLBENZENE	15.867	91	1739260	10.0551	PPBV	98
80) m,p-XYLENE	16.118	106	1328036	19.1182	PPBV	95
81) o-XYLENE	16.809	106	650079	9.7642	PPBV	95
82) STYRENE	16.656	104	1022132	9.9958	PPBV	99
83) NONANE	17.225	43	786601	8.6197	PPBV	97
84) BROMOFORM	16.197	173	1016055	9.8351	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.815	83	1146327	10.4718	PPBV	98
87) 1,2,3-TRICHLOROPROPANE	17.005	75	767292	9.5009	PPBV	98
88) ISOPROPYLBENZENE	17.720	105	1864941	9.4480	PPBV	98
89) BROMOBENZENE	17.812	77	923545	9.1292	PPBV	92
90) 2-CHLOROTOLUENE	18.455	126	500408	9.0276	PPBV	99
91) n-PROPYLBENZENE	18.546	120	519579	9.3831	PPBV	99
92) 4-ETHYLTOLUENE	18.791	105	1882411	9.7769	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	18.926	105	1568257	9.3565	PPBV	99
94) ALPHA-METHYLSTYRENE	19.176	118	796432	9.2889	PPBV	99
95) tert-BUTYLBENZENE	19.531	134	362437	9.6069	PPBV	96
96) 1,2,4-TRIMETHYLBENZENE	19.550	105	1682554	10.1176	PPBV	97
97) m-DICHLOROBENZENE	19.739	146	1184586	8.8526	PPBV	99
98) BENZYL CHLORIDE	19.733	91	1480095	10.3228	PPBV	98
99) p-DICHLOROBENZENE	19.843	146	1159915	8.4509	PPBV	99
100) sec-BUTYLBENZENE	19.941	134	430024	9.3204	PPBV #	88
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	1619503	9.3519	PPBV #	98
102) p-ISOPROPYLTOLUENE	20.192	134	489961	9.2467	PPBV	93
103) o-DICHLOROBENZENE	20.327	146	1074239	8.3929	PPBV	99
104) n-BUTYLBENZENE	20.785	134	484876	9.4185	PPBV #	82
105) HEXACHLOROETHANE	21.244	117	846634	10.4233	PPBV	95
106) HEXACHLOROBUTADIENE	23.196	225	1046248	8.7450	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.061	180	970117	9.0432	PPBV	99
108) NAPHTHALENE	22.737	128	2307541	9.6089	PPBV	100
110) TVHC as equiv Pentane	5.136	TIC	2098413	9.2880	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
Data File : 5w57224.D
Acq On : 6 Mar 2025 2:44 pm
Operator : thomash
Sample : bsd Inst : GCMS5W
Misc : MS89870,V5W2196,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:46:34 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

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

7.3.8

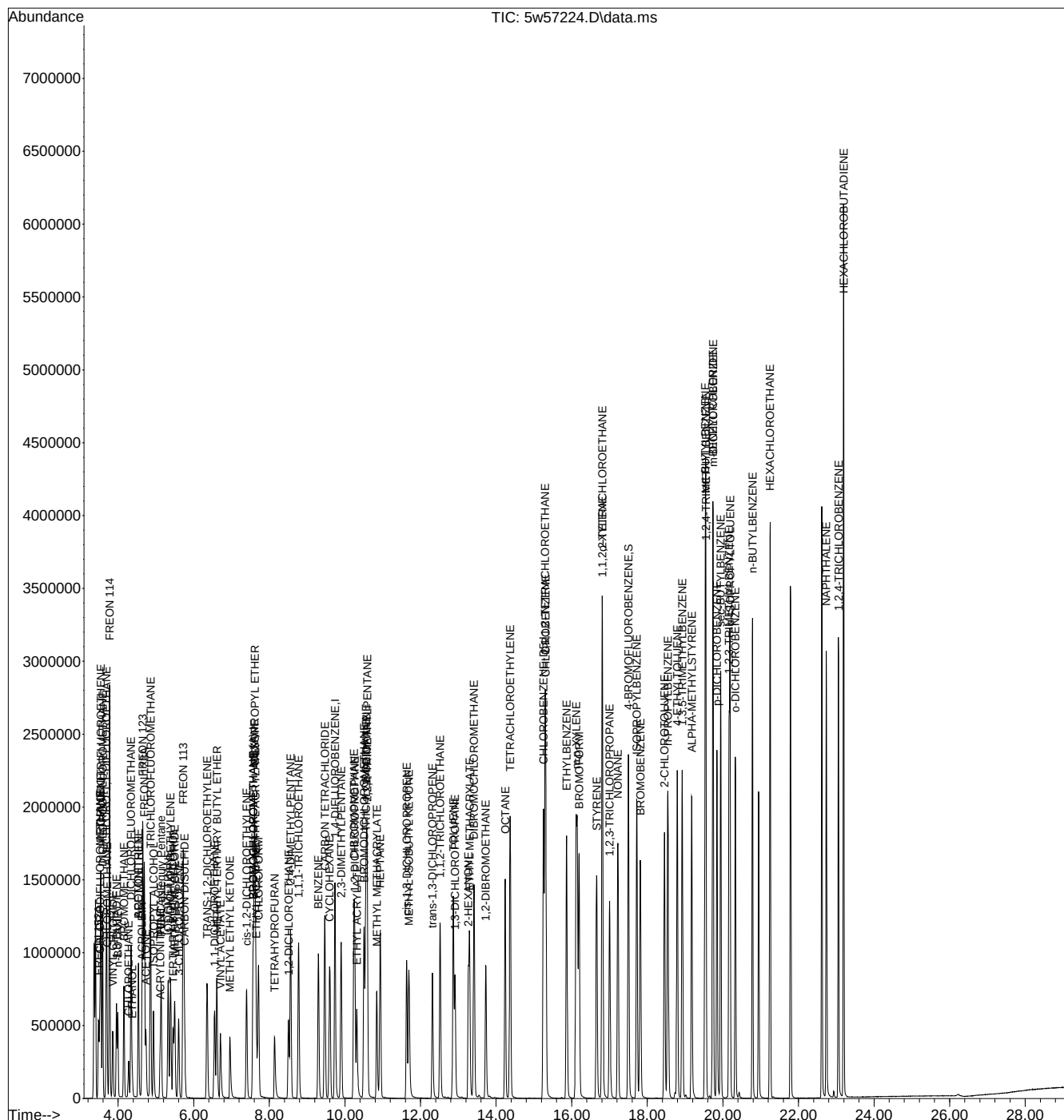
7

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
Data File : 5w57224.D
Acq On : 6 Mar 2025 2:44 pm
Operator : thomash
Sample : bsd
Misc : MS89870,V5W2196,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Inst : GCMS5W

Quant Time: Mar 07 07:46:34 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\012025\V7W425\
Data File : 7w11899.D
Acq On : 19 Jan 2025 12:35 am
Operator : benk
Sample : bs Inst : MS7W
Misc : MS88797,v7w425,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 20 11:47:08 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	109782	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.496	114	554508	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.035	117	518516	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	109788	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.386	95	402497	10.70	PPBV	0.00
Target Compounds						
					Qvalue	
3) FREON 152A	1.627	65	59331	11.3488	PPBV	95
4) CHLORODIFLUOROMETHANE	1.640	67	28654	10.7966	PPBV	99
5) CHLOROTRIFLUOROETHENE	1.650	116	135062	10.5647	PPBV	73
6) DICHLORODIFLUOROMETHANE	1.666	85	355124	12.9739	PPBV	99
7) PROPYLENE	1.650	41	64342	8.9311	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	1.705	65	279285	13.7762	PPBV	98
9) FREON 114	1.740	85	302018	13.9100	PPBV	93
10) CHLOROMETHANE	1.711	52	31719	11.1625	PPBV	97
11) VINYL CHLORIDE	1.772	62	120763	13.1523	PPBV	100
12) 1,3-BUTADIENE	1.811	54	90874	11.6154	PPBV	97
13) N-BUTANE	1.827	43	161146	11.3180	PPBV	98
14) BROMOMETHANE	1.885	94	101693	12.3885	PPBV	99
15) CHLOROETHANE	1.933	64	60044	12.0838	PPBV	95
16) DICHLOROFLUOROMETHANE	1.959	67	246069	12.7122	PPBV	99
17) ACETONITRILE	2.026	41	78529	8.9000	PPBV	98
18) ACRYLEIN	2.065	56	47340	10.2151	PPBV	97
19) FREON 123	2.078	83	257921	12.3473	PPBV	96
20) FREON 123A	2.097	117	149696	11.5102	PPBV	87
21) TRICHLOROFLUOROMETHANE	2.161	101	291944	12.1111	PPBV	100
22) ISOPROPYL ALCOHOL	2.177	45	197109	9.6918	PPBV	97
23) ACETONE	2.103	58	54315	8.5154	PPBV	86
24) PENTANE	2.274	42	100365	10.2738	PPBV	97
25) IODOMETHANE	2.335	142	255426	11.5621	PPBV	95
26) 1,1-DICHLOROETHYLENE	2.364	96	106946	11.2351	PPBV	98
27) CARBON DISULFIDE	2.496	76	321027	13.5426	PPBV	99
28) ETHANOL	1.962	45	50607	9.0898	PPBV	100
29) BROMOETHENE	2.033	106	100623	11.5060	PPBV	98
30) ACRYLONITRILE	2.245	52	73697	9.3352	PPBV	99
31) METHYLENE CHLORIDE	2.399	84	99743	11.4790	PPBV	92
32) 3-CHLOROPROPENE	2.441	76	55218	12.2153	PPBV	82
33) FREON 113	2.496	151	170094	11.8017	PPBV	88
34) TRANS-1,2-DICHLOROETHENE	2.721	96	117295	11.8368	PPBV	99
35) TERTIARY BUTYL ALCOHOL	2.377	59	239402	10.2353	PPBV	100
36) METHYL TERTIARY BUTYL ...	2.827	73	308096	10.8726	PPBV	97
37) TETRAHYDROFURAN	3.508	72	53610	12.2087	PPBV	88
38) HEXANE	3.280	57	194269	10.7447	PPBV	96
39) VINYL ACETATE	2.865	86	27706	10.3303	PPBV	85
40) 1,1-DICHLOROETHANE	2.795	63	203264	11.4642	PPBV	99
41) METHYL ETHYL KETONE	2.959	72	57230	11.7337	PPBV	84
42) CIS-1,2-DICHLOROETHENE	3.152	96	115341	11.3006	PPBV	99
43) DIISOPROPYL ETHER	3.283	59	56754	11.3345	PPBV	88
44) ETHYL ACETATE	3.290	61	40472	11.6831	PPBV	91
45) METHYL ACRYLATE	3.274	55	233327	11.4866	PPBV #	99
46) CHLOROFORM	3.299	83	240949	12.0079	PPBV	98
47) 2,4-DIMETHYLPENTANE	3.788	57	221752	11.0930	PPBV	99
48) 1,1,1-TRICHLOROETHANE	3.869	97	238633	11.0900	PPBV	98
49) CARBON TETRACHLORIDE	4.283	117	234730	10.9991	PPBV	100
50) 1,2-DICHLOROETHANE	3.705	62	179592	11.9542	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\012025\V7W425\
Data File : 7w11899.D
Acq On : 19 Jan 2025 12:35 am
Operator : benk
Sample : bs Inst : MS7W
Misc : MS88797,v7w425,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 20 11:47:08 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) BENZENE	4.174	78	342276	11.6739	PPBV	97
53) CYCLOHEXANE	4.380	84	152975	11.6766	PPBV	97
54) 2,3-DIMETHYLPENTANE	4.634	71	79096	11.4992	PPBV	95
55) TRICHLOROETHENE	5.065	95	158619	11.2533	PPBV	93
56) 1,2-DICHLOROPROPANE	4.830	63	135941	11.3048	PPBV	100
57) DIBROMOMETHANE	4.791	174	130241	9.8337	PPBV	93
58) ETHYL ACRYLATE	4.949	55	285428	11.1710	PPBV	99
59) BROMODICHLOROMETHANE	5.010	83	263295	11.7248	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.155	57	602429	11.2982	PPBV	99
61) 1,4-DIOXANE	5.077	88	83592	10.6359	PPBV	98
62) HEPTANE	5.473	43	201173	10.7356	PPBV	94
63) METHYL METHACRYLATE	5.367	69	131664	10.9326	PPBV	92
64) METHYL ISOBUTYL KETONE	6.097	58	121732	10.8815	PPBV	91
65) CIS-1,3-DICHLOROPROPENE	5.991	75	214624	11.3968	PPBV	96
66) TOLUENE	7.187	91	425241	10.8531	PPBV	99
67) 1,3-DICHLOROPROPANE	7.245	76	216449	11.8284	PPBV	99
68) TRANS-1,3-DICHLOROPROPENE	6.663	75	183306	10.3542	PPBV	96
69) 1,1,2-TRICHLOROETHANE	6.820	83	126990	11.7909	PPBV	97
70) 2-HEXANONE	7.756	58	167047	9.5625	PPBV	91
71) ETHYL METHACRYLATE	7.888	69	218922	10.4558	PPBV	96
72) TETRACHLOROETHENE	8.907	164	162421	10.9407	PPBV	98
73) DIBROMOCHLOROMETHANE	7.720	129	242828	10.7313	PPBV	100
74) 1,2-DIBROMOETHANE	8.058	107	229620	11.6462	PPBV	100
75) OCTANE	9.058	43	277979	10.4700	PPBV	96
77) 1,1,1,2-TETRACHLOROETHANE	10.119	131	170997	10.3183	PPBV	93
78) CHLOROBENZENE	10.113	112	344305	11.4111	PPBV	96
79) ETHYLBENZENE	10.990	91	571265	11.1857	PPBV	98
80) M,P-XYLENE	11.418	91	902090	22.5328	PPBV	96
81) O-XYLENE	12.347	91	460787	11.4601	PPBV	98
82) STYRENE	12.138	104	341309	11.8523	PPBV	99
83) NONANE	13.466	43	298138	10.7950	PPBV	96
84) BROMOFORM	11.225	173	216707	10.9018	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	12.360	83	341470	12.7611	PPBV	98
86) 1,2,3-TRICHLOROPROPANE	12.640	75	261633	12.2556	PPBV	100
88) ISOPROPYLBENZENE	13.855	120	167227	10.8866	PPBV	91
89) BROMOBENZENE	13.723	77	326647	11.4074	PPBV	90
90) 2-CHLOROTOLUENE	14.852	126	149220	10.6789	PPBV	100
91) N-PROPYLBENZENE	15.196	120	174229	11.1907	PPBV	99
92) 4-ETHYLTOLUENE	15.643	105	652138	11.6782	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	15.913	105	550184	11.7073	PPBV	97
94) ALPHA-METHYLSTYRENE	16.215	118	270106	11.2541	PPBV	99
95) TERT-BUTYLBENZENE	16.527	134	126393	11.2373	PPBV	91
96) 1,2,4-TRIMETHYLBENZENE	16.537	105	580938	12.2553	PPBV	96
97) BENZYL CHLORIDE	16.627	91	381378	9.0858	PPBV	97
98) M-DICHLOROBENZENE	16.598	146	356232	11.0176	PPBV	98
99) P-DICHLOROBENZENE	16.691	146	361854	11.4988	PPBV	98
100) O-DICHLOROBENZENE	17.009	146	343708	11.2578	PPBV	98
101) SEC-BUTYLBENZENE	16.839	134	161364	11.5124	PPBV	83
102) 1,2,3-TRIMETHYLBENZENE	16.955	105	566875	11.9386	PPBV	97
103) P-ISOPROPYLTOLUENE	17.029	134	178466	11.4859	PPBV	93
104) N-BUTYLBENZENE	17.392	134	174527	11.4964	PPBV	77
105) HEXACHLOROETHANE	17.569	117	195368	10.8025	PPBV	98
106) HEXACHLOROBUTADIENE	18.620	225	305315	13.4434	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	18.312	180	342867	13.1383	PPBV	99
108) NAPHTHALENE	18.360	128	743297	12.8330	PPBV	99
110) TVHC as equiv Pentane	2.274	TIC	504424	10.8207	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\012025\V7W425\
Data File : 7w11899.D
Acq On : 19 Jan 2025 12:35 am
Operator : benk
Sample : bs Inst : MS7W
Misc : MS88797,v7w425,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 20 11:47:08 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

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

7.3.9

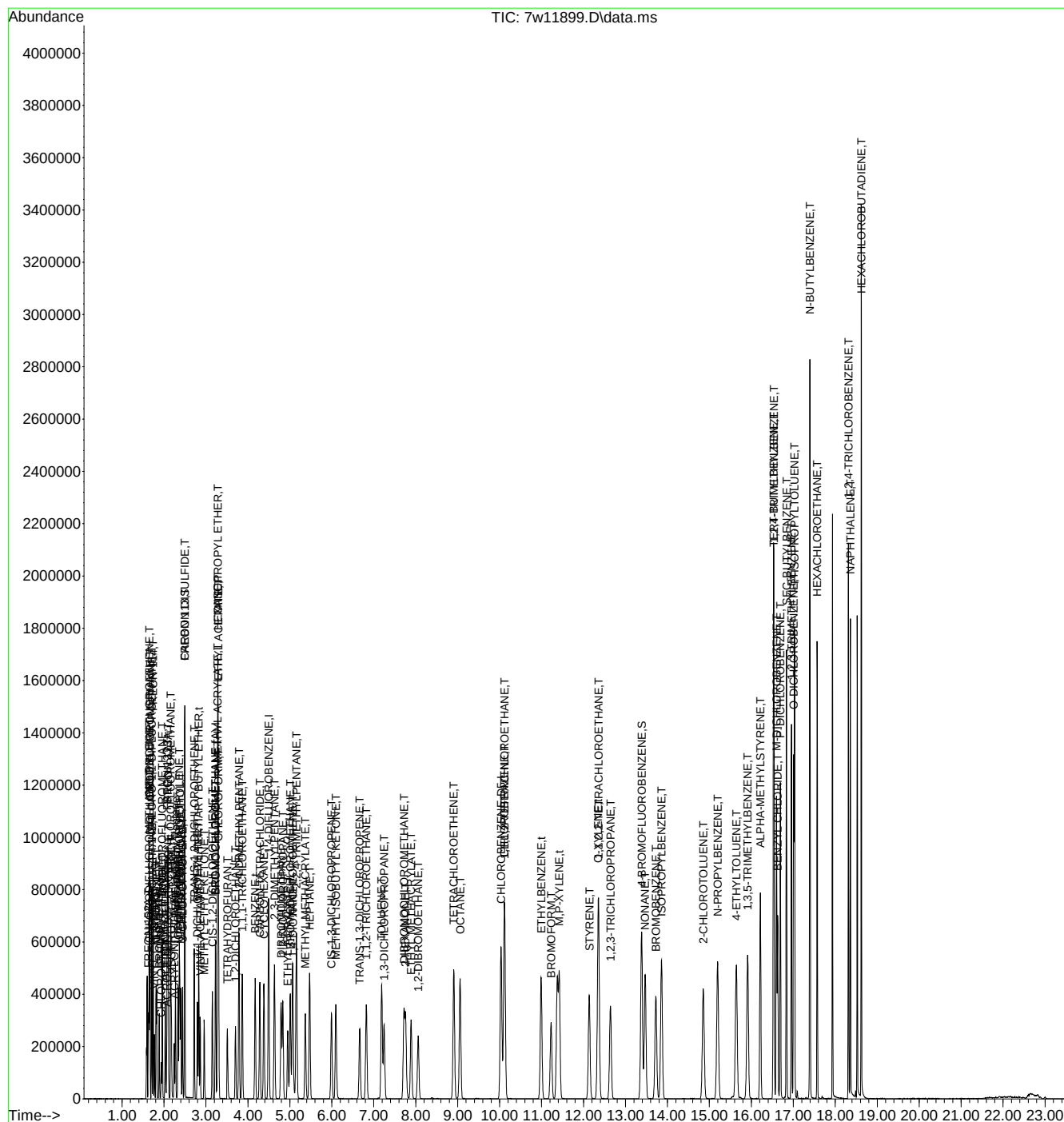
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Quantitation Report (QT Reviewed)

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Data Path : X:\Dayton VOA GCMS\kristel\012025\V7W425\
Data File : 7w11899.D
Acq On    : 19 Jan 2025  12:35 am
Operator  : benk
Sample    : bs
Misc      : MS88797,v7w425,,,,,1
ALS Vial  : 4      Sample Multiplier: 1
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Inst : MS7W

Quant Time: Jan 20 11:47:08 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



7.3.9

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\012025\V7W425\
 Data File : 7w11900.D
 Acq On : 19 Jan 2025 1:14 am
 Operator : benk
 Sample : BSD Inst : MS7W
 Misc : MS88797,V7W425,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 20 11:47:14 2025
 Quant Method : C:\msdchem\1\methods\M7W405.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Sun Dec 29 19:41:17 2024
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	110190	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.495	114	556365	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	516949	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	110190	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.382	95	401442	10.70	PPBV	0.00
Target Compounds						
					Qvalue	
3) FREON 152A	1.627	65	60209	11.4741	PPBV	94
4) CHLORODIFLUOROMETHANE	1.640	67	29074	10.9143	PPBV	98
5) CHLOROTRIFLUOROETHENE	1.653	116	135863	10.5880	PPBV	73
6) DICHLORODIFLUOROMETHANE	1.669	85	355692	12.9465	PPBV	98
7) PROPYLENE	1.650	41	65199	9.0165	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHANE	1.704	65	282002	13.8587	PPBV	98
9) FREON 114	1.740	85	305088	13.9994	PPBV	93
10) CHLOROMETHANE	1.711	52	32489	11.3912	PPBV	98
11) VINYL CHLORIDE	1.772	62	118434	12.8509	PPBV	98
12) 1,3-BUTADIENE	1.811	54	89740	11.4280	PPBV	97
13) N-BUTANE	1.827	43	161922	11.3304	PPBV	98
14) BROMOMETHANE	1.885	94	102295	12.4157	PPBV	99
15) CHLOROETHANE	1.936	64	64057	12.8437	PPBV	99
16) DICHLOROFLUOROMETHANE	1.958	67	259525	13.3577	PPBV	99
17) ACETONITRILE	2.026	41	80663	9.1080	PPBV	99
18) ACROLEIN	2.065	56	47512	10.2143	PPBV	99
19) FREON 123	2.081	83	258219	12.3158	PPBV	97
20) FREON 123A	2.097	117	153029	11.7229	PPBV	88
21) TRICHLOROFLUOROMETHANE	2.161	101	290354	12.0005	PPBV	100
22) ISOPROPYL ALCOHOL	2.177	45	195318	9.5682	PPBV	97
23) ACETONE	2.103	58	55193	8.6210	PPBV	86
24) PENTANE	2.277	42	98219	10.0169	PPBV	96
25) IODOMETHANE	2.335	142	262175	11.8236	PPBV	95
26) 1,1-DICHLOROETHYLENE	2.364	96	109139	11.4231	PPBV	99
27) CARBON DISULFIDE	2.495	76	324220	13.6266	PPBV	99
28) ETHANOL	1.965	45	56542	10.1183	PPBV	99
29) BROMOETHENE	2.036	106	101731	11.5896	PPBV	98
30) ACRYLONITRILE	2.245	52	74013	9.3405	PPBV	98
31) METHYLENE CHLORIDE	2.399	84	100422	11.5143	PPBV	93
32) 3-CHLOROPROPENE	2.441	76	55793	12.2968	PPBV	85
33) FREON 113	2.495	151	169429	11.7120	PPBV	86
34) TRANS-1,2-DICHLOROETHENE	2.721	96	112685	11.3295	PPBV	97
35) TERTIARY BUTYL ALCOHOL	2.377	59	242256	10.3190	PPBV	100
36) METHYL TERTIARY BUTYL ...	2.827	73	314192	11.0467	PPBV	98
37) TETRAHYDROFURAN	3.508	72	54174	12.2914	PPBV	89
38) HEXANE	3.280	57	196845	10.8469	PPBV	96
39) VINYL ACETATE	2.862	86	27717	10.2961	PPBV	88
40) 1,1-DICHLOROETHANE	2.794	63	205220	11.5317	PPBV	99
41) METHYL ETHYL KETONE	2.958	72	57614	11.7687	PPBV	85
42) CIS-1,2-DICHLOROETHENE	3.155	96	117380	11.4578	PPBV	100
43) DIISOPROPYL ETHER	3.283	59	57738	11.4883	PPBV	87
44) ETHYL ACETATE	3.286	61	40510	11.6507	PPBV	94
45) METHYL ACRYLATE	3.274	55	235964	11.5734	PPBV #	99
46) CHLOROFORM	3.303	83	244791	12.1542	PPBV	97
47) 2,4-DIMETHYLPENTANE	3.788	57	224758	11.2017	PPBV	99
48) 1,1,1-TRICHLOROETHANE	3.865	97	240448	11.1329	PPBV	98
49) CARBON TETRACHLORIDE	4.283	117	234493	10.9473	PPBV	99
50) 1,2-DICHLOROETHANE	3.704	62	182402	12.0963	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\012025\V7W425\
Data File : 7w11900.D
Acq On : 19 Jan 2025 1:14 am
Operator : benk
Sample : bsd Inst : MS7W
Misc : MS88797,v7w425,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 20 11:47:14 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) BENZENE	4.174	78	346924	11.7886	PPBV	97
53) CYCLOHEXANE	4.380	84	155378	11.8205	PPBV	96
54) 2,3-DIMETHYLPENTANE	4.634	71	79237	11.4812	PPBV	97
55) TRICHLOROETHENE	5.064	95	161028	11.3861	PPBV	93
56) 1,2-DICHLOROPROPANE	4.833	63	138088	11.4450	PPBV	99
57) DIBROMOMETHANE	4.794	174	132069	9.9384	PPBV	94
58) ETHYL ACRYLATE	4.952	55	289943	11.3098	PPBV	99
59) BROMODICHLOROMETHANE	5.010	83	267194	11.8587	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	5.158	57	608610	11.3760	PPBV	99
61) 1,4-DIOXANE	5.081	88	84750	10.7472	PPBV	98
62) HEPTANE	5.473	43	202771	10.7848	PPBV	93
63) METHYL METHACRYLATE	5.370	69	132752	10.9861	PPBV	92
64) METHYL ISOBUTYL KETONE	6.097	58	122809	10.9411	PPBV	92
65) CIS-1,3-DICHLOROPROPENE	5.990	75	218465	11.5621	PPBV	96
66) TOLUENE	7.190	91	429913	10.9357	PPBV	100
67) 1,3-DICHLOROPROPANE	7.244	76	218791	11.9165	PPBV	99
68) TRANS-1,3-DICHLOROPROPENE	6.666	75	187504	10.5560	PPBV	96
69) 1,1,2-TRICHLOROETHANE	6.823	83	127352	11.7850	PPBV	97
70) 2-HEXANONE	7.759	58	171556	9.7878	PPBV	90
71) ETHYL METHACRYLATE	7.891	69	221248	10.5316	PPBV	96
72) TETRACHLOROETHENE	8.907	164	163263	10.9607	PPBV	98
73) DIBROMOCHLOROMETHANE	7.720	129	244450	10.7670	PPBV	99
74) 1,2-DIBROMOETHANE	8.061	107	233036	11.7800	PPBV	100
75) OCTANE	9.058	43	281024	10.5494	PPBV	96
77) 1,1,1,2-TETRACHLOROETHANE	10.122	131	173049	10.4738	PPBV	93
78) CHLOROBENZENE	10.109	112	348205	11.5754	PPBV	97
79) ETHYLBENZENE	10.990	91	579745	11.3862	PPBV	98
80) M,P-XYLENE	11.421	91	913240	22.8805	PPBV	98
81) O-XYLENE	12.347	91	468609	11.6900	PPBV	98
82) STYRENE	12.135	104	344101	11.9855	PPBV	98
83) NONANE	13.469	43	301038	10.9331	PPBV	96
84) BROMOFORM	11.228	173	219062	11.0537	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	12.360	83	344509	12.9137	PPBV	98
86) 1,2,3-TRICHLOROPROPANE	12.643	75	264209	12.4137	PPBV #	99
88) ISOPROPYLBENZENE	13.858	120	168638	11.0117	PPBV	91
89) BROMOBENZENE	13.727	77	330620	11.5811	PPBV	90
90) 2-CHLOROTOLUENE	14.855	126	151862	10.9009	PPBV	100
91) N-PROPYLBENZENE	15.196	120	174744	11.2578	PPBV	99
92) 4-ETHYLTOLUENE	15.643	105	660258	11.8595	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	15.910	105	555785	11.8623	PPBV	97
94) ALPHA-METHYLSTYRENE	16.215	118	272434	11.3855	PPBV	98
95) TERT-BUTYLBENZENE	16.527	134	127725	11.3901	PPBV	91
96) 1,2,4-TRIMETHYLBENZENE	16.537	105	589193	12.4671	PPBV	96
97) BENZYL CHLORIDE	16.627	91	385955	9.2227	PPBV	97
98) M-DICHLOROBENZENE	16.598	146	356242	11.0514	PPBV	98
99) P-DICHLOROBENZENE	16.691	146	366602	11.6850	PPBV	98
100) O-DICHLOROBENZENE	17.006	146	348890	11.4622	PPBV	98
101) SEC-BUTYLBENZENE	16.836	134	163877	11.7272	PPBV	85
102) 1,2,3-TRIMETHYLBENZENE	16.955	105	572238	12.0880	PPBV	97
103) P-ISOPROPYLTOLUENE	17.029	134	179111	11.5624	PPBV	93
104) N-BUTYLBENZENE	17.392	134	175841	11.6181	PPBV	77
105) HEXACHLOROETHANE	17.569	117	198338	10.9999	PPBV	98
106) HEXACHLOROBUTADIENE	18.620	225	306909	13.5546	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	18.312	180	342019	13.1455	PPBV	99
108) NAPHTHALENE	18.360	128	733743	12.7064	PPBV	99
110) TVHC as equiv Pentane	2.277	TIC	503871	10.7694	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\012025\V7W425\
Data File : 7w11900.D
Acq On : 19 Jan 2025 1:14 am
Operator : benk
Sample : bsd Inst : MS7W
Misc : MS88797,V7W425,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 20 11:47:14 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

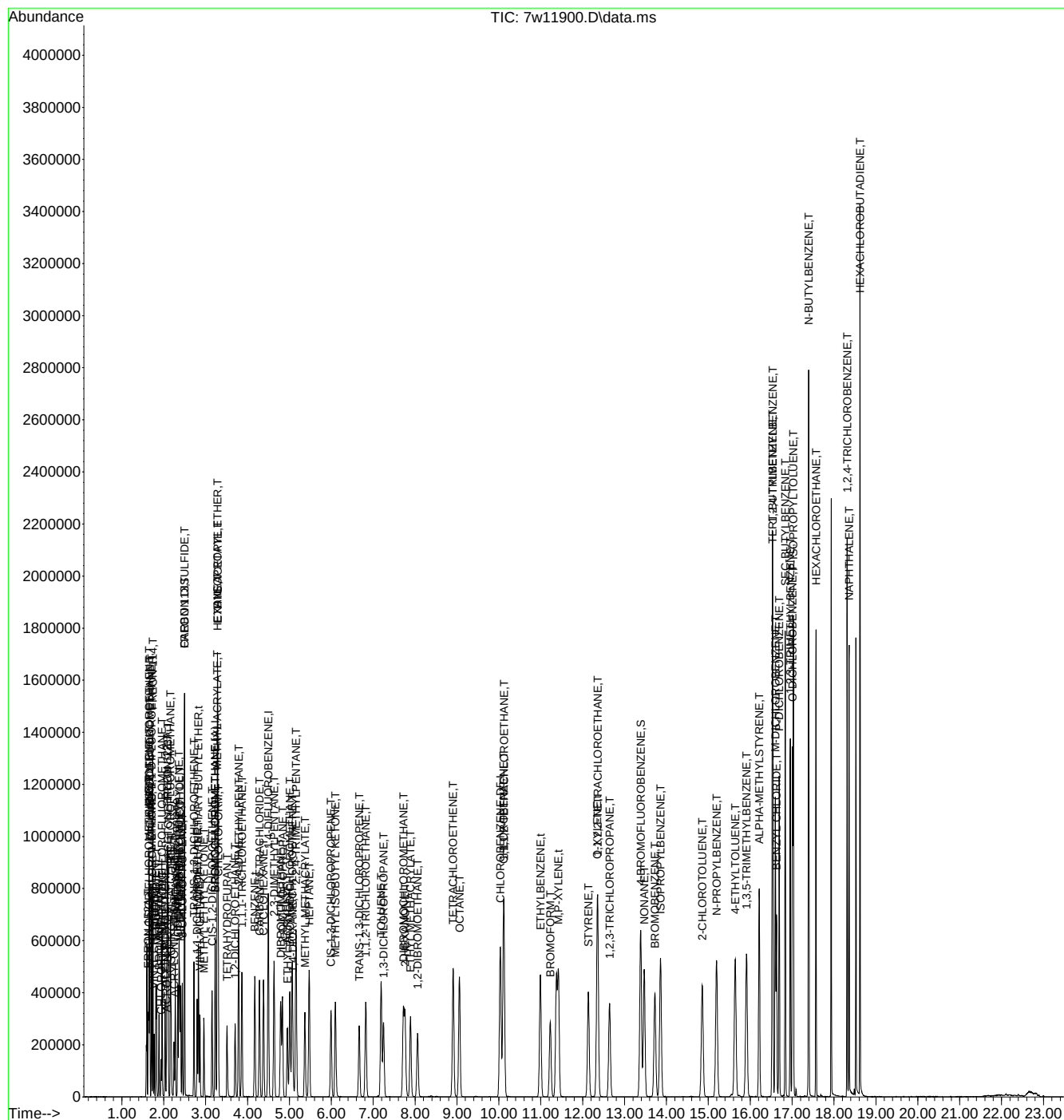
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Data Path : X:\Dayton VOA GCMS\kristel\012025\V7W425\
Data File : 7w11900.D
Acq On    : 19 Jan 2025    1:14 am
Operator  : benk
Sample    : bsd
Misc      : MS88797,V7W425,,,,,1
ALS Vial  : 4    Sample Multiplier: 1

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Inst : MS7W

Quant Time: Jan 20 11:47:14 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\
 Data File : 5w56524.D
 Acq On : 30 Jan 2025 2:19 pm
 Operator : thomash
 Sample : bs Inst : GCMS5W
 Misc : MS89211,V5W2165,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 07:47:05 2025
 Quant Method : C:\msdchem\1\methods\M5w2144.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Thu Jan 09 19:02:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.644	128	477170	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.816	114	2045175	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.334	82	998040	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.644	128	477170	10.00	PPBV	# 0.00

System Monitoring Compounds
 85) 4-BROMOFLUOROBENZENE 17.580 95 1311973 11.16 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 111.60%

Target Compounds					Qvalue	
3) FREON 152A	3.527	65	350894	10.3805	PPBV	93
4) CHLORODIFLUOROMETHANE	3.558	67	178386	11.6131	PPBV	96
5) CHLOROTRIFLUOROETHENE	3.588	116	955039	12.2023	PPBV	96
6) DICHLORODIFLUOROMETHANE	3.637	85	1766695	11.6282	PPBV	99
7) PROPYLENE	3.582	41	498516	13.0427	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.735	65	1656304	10.7231	PPBV	95
9) FREON 114	3.821	85	2069251	10.4603	PPBV	98
10) CHLOROMETHANE	3.754	52	213075	10.2392	PPBV	92
11) VINYL CHLORIDE	3.913	62	661080	9.3918	PPBV	100
12) 1,3-BUTADIENE	4.011	54	483009	10.2510	PPBV	87
13) n-BUTANE	4.047	43	1047886	10.6230	PPBV	96
14) BROMOMETHANE	4.206	94	674124	8.9074	PPBV	96
15) CHLOROETHANE	4.335	64	275050	8.6477	PPBV	92
16) DICHLOROFLUOROMETHANE	4.396	67	1495688	9.7043	PPBV	97
17) ACETONITRILE	4.592	41	578016	10.0874	PPBV	98
18) ACROLEIN	4.690	56	238179	9.4033	PPBV	98
19) FREON 123	4.708	83	1464850	8.7979	PPBV	94
20) FREON 123A	4.751	117	952977	10.1488	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.916	101	2007881	12.0042	PPBV	100
22) ISOPROPYL ALCOHOL	5.002	45	1293867	14.6382	PPBV	99
23) ACETONE	4.794	58	250333	8.8089	PPBV #	62
24) PENTANE	5.204	42	530495	11.8705	PPBV	97
25) IODOMETHANE	5.393	142	1744175	13.2293	PPBV	97
26) 1,1-DICHLOROETHYLENE	5.454	96	475552	10.8238	PPBV	99
27) CARBON DISULFIDE	5.827	76	1265093	10.2864	PPBV	96
28) ETHANOL	4.427	45	347425	10.1236	PPBV	99
29) BROMOETHENE	4.598	106	679224	9.4766	PPBV	97
30) ACRYLONITRILE	5.179	52	302096	11.3300	PPBV	99
31) METHYLENE CHLORIDE	5.564	84	413367	9.5618	PPBV	87
32) 3-CHLOROPROPENE	5.668	76	205413	10.8556	PPBV #	78
33) FREON 113	5.791	151	974713	11.9412	PPBV	91
34) TRANS-1,2-DICHLOROETHYLENE	6.427	96	489850	10.6288	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.516	59	837505	11.2525	PPBV	98
36) METHYL TERTIARY BUTYL ETHER	6.684	73	1176009	10.7424	PPBV	94
37) TETRAHYDROFURAN	8.213	72	191079	10.9895	PPBV #	77
38) HEXANE	7.681	57	709044	11.4005	PPBV	96
39) VINYL ACETATE	6.782	86	86911	12.3597	PPBV #	64
40) 1,1-DICHLOROETHANE	6.623	63	845066	10.7486	PPBV	98
41) METHYL ETHYL KETONE	7.033	72	201779	11.4655	PPBV #	67
42) cis-1,2-DICHLOROETHYLENE	7.473	96	516182	10.3046	PPBV	100
43) DIISOPROPYL ETHER	7.687	59	210942	11.3434	PPBV #	77
44) ETHYL ACETATE	7.724	61	154091	11.6004	PPBV #	97
45) METHYL ACRYLATE	7.706	55	888819	11.9974	PPBV	98
46) CHLOROFORM	7.785	83	1079900	10.2849	PPBV	96
47) 2,4-DIMETHYLPENTANE	8.642	57	796482	11.8891	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.850	97	1197759	11.0159	PPBV	99
49) CARBON TETRACHLORIDE	9.541	117	1429415	11.9164	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\
Data File : 5w56524.D
Acq On : 30 Jan 2025 2:19 pm
Operator : thomash
Sample : bs Inst : GCMS5W
Misc : MS89211,V5W2165,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 07:47:05 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.580	62	725678	11.3348	PPBV	99
52) BENZENE	9.376	78	1344055	10.1778	PPBV	98
53) CYCLOHEXANE	9.676	84	542550	10.5250	PPBV	91
54) 2,3-DIMETHYLPENTANE	9.975	71	269896	10.1975	PPBV #	82
55) TRICHLOROETHYLENE	10.630	95	745717	10.5834	PPBV	98
56) 1,2-DICHLOROPROPANE	10.336	63	535884	10.0934	PPBV	99
57) DIBROMOMETHANE	10.312	174	864404	11.3936	PPBV	90
58) ETHYL ACRYLATE	10.391	55	1052664	12.0931	PPBV	99
59) BROMODICHLOROMETHANE	10.581	83	1258192	10.0975	PPBV	97
60) 2,2,4-TRIMETHYLPENTANE	10.660	57	2202270	11.5987	PPBV	99
61) 1,4-DIOXANE	10.648	88	338097	10.8306	PPBV #	74
62) HEPTANE	11.009	43	905110	13.0630	PPBV	90
63) METHYL METHACRYLATE	10.917	69	473515	11.3359	PPBV	83
64) METHYL ISOBUTYL KETONE	11.768	58	429075	11.8671	PPBV #	86
65) cis-1,3-DICHLOROPROPENE	11.713	75	918879	11.2335	PPBV	94
66) TOLUENE	12.942	92	1037989	10.8726	PPBV	99
67) 1,3-DICHLOROPROPANE	12.991	76	836613	10.5003	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.392	75	835356	10.5644	PPBV	95
69) 1,1,2-TRICHLOROETHANE	12.594	83	571268	10.2009	PPBV	96
71) 2-HEXANONE	13.340	58	617074	13.8041	PPBV	88
72) ETHYL METHACRYLATE	13.371	69	817706	12.0703	PPBV	85
73) TETRACHLOROETHYLENE	14.447	164	934855	13.2851	PPBV	94
74) DIBROMOCHLOROMETHANE	13.493	129	1606617	13.0272	PPBV	100
75) 1,2-DIBROMOETHANE	13.805	107	1215631	13.2429	PPBV	100
76) OCTANE	14.313	43	1306714	14.9373	PPBV	92
77) 1,1,1,2-TETRACHLOROETHANE	15.371	131	1040106	12.5258	PPBV	99
78) CHLOROBENZENE	15.389	112	1646788	11.9918	PPBV	95
79) ETHYLBENZENE	15.946	91	2367279	13.0232	PPBV	98
80) m,p-XYLENE	16.197	106	1938491	26.6160	PPBV	94
81) o-XYLENE	16.888	106	971482	13.7151	PPBV	94
82) STYRENE	16.735	104	1447787	14.0205	PPBV	97
83) NONANE	17.298	43	1411387	15.6798	PPBV	92
84) BROMOFORM	16.277	173	1836031	15.2284	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.888	83	1591155	11.7672	PPBV	96
87) 1,2,3-TRICHLOROPROPANE	17.084	75	1060157	11.4369	PPBV	96
88) ISOPROPYLBENZENE	17.800	105	2789786	12.8652	PPBV	99
89) BROMOBENZENE	17.892	77	1223877	11.0018	PPBV	82
90) 2-CHLOROTOLUENE	18.534	126	780380	13.0278	PPBV	100
91) n-PROPYLBENZENE	18.626	120	781425	13.5297	PPBV	100
92) 4-ETHYLTOLUENE	18.870	105	2857149	13.9089	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	18.999	105	2357071	13.9525	PPBV	99
94) ALPHA-METHYLSTYRENE	19.244	118	1243904	13.7450	PPBV	99
95) tert-BUTYLBENZENE	19.605	134	566233	13.6647	PPBV	97
96) 1,2,4-TRIMETHYLBENZENE	19.617	105	2568180	13.9598	PPBV	99
97) m-DICHLOROBENZENE	19.806	146	2012332	13.1642	PPBV	98
98) BENZYL CHLORIDE	19.800	91	2288881	12.7180	PPBV	98
99) p-DICHLOROBENZENE	19.910	146	1992617	13.8627	PPBV	98
100) sec-BUTYLBENZENE	20.008	134	683669	13.8013	PPBV	98
101) 1,2,3-TRIMETHYLBENZENE	20.229	105	2513120	13.8836	PPBV #	100
102) p-ISOPROPYLTOLUENE	20.253	134	803206	13.6681	PPBV	95
103) o-DICHLOROBENZENE	20.394	146	1870937	13.4057	PPBV	99
104) n-BUTYLBENZENE	20.846	134	775670	13.9425	PPBV	96
105) HEXACHLOROETHANE	21.311	117	1438419	14.4391	PPBV	95
106) HEXACHLOROBUTADIENE	23.355	225	2098891	15.6167	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.214	180	1988460	15.3452	PPBV	97
108) NAPHTHALENE	22.878	128	4073298	14.5948	PPBV	100
110) TVHC as equiv Pentane	5.204	TIC	3363569	12.0375	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\
Data File : 5W56524.D
Acq On : 30 Jan 2025 2:19 pm
Operator : thomash
Sample : bs Inst : GCMS5W
Misc : MS89211,V5W2165,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 07:47:05 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

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

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

7.3.11

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\
Data File : 5w56525.D
Acq On : 30 Jan 2025 3:00 pm
Operator : thomash
Sample : bsd Inst : GCMS5W
Misc : MS89211,V5W2165,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 07:49:37 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.644	128	507825	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.816	114	2183590	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.334	82	1077130	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.644	128	507825	10.00	PPBV	# 0.00

System Monitoring Compounds
85) 4-BROMOFLUOROBENZENE 17.580 95 1404549 11.07 PPBV 0.00
Spiked Amount 10.000 Range 65 - 128 Recovery = 110.70%

Target Compounds					Qvalue	
3) FREON 152A	3.527	65	341988	9.5063	PPBV	92
4) CHLORODIFLUOROMETHANE	3.558	67	173615	10.6202	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.588	116	916506	11.0031	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.631	85	1692956	10.4702	PPBV	100
7) PROPYLENE	3.582	41	487850	11.9931	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.735	65	1620517	9.8581	PPBV	95
9) FREON 114	3.821	85	2005484	9.5260	PPBV	98
10) CHLOROMETHANE	3.754	52	209229	9.4474	PPBV	94
11) VINYL CHLORIDE	3.907	62	637938	8.5160	PPBV	99
12) 1,3-BUTADIENE	4.004	54	473585	9.4443	PPBV	87
13) n-BUTANE	4.041	43	1022563	9.7405	PPBV	95
14) BROMOMETHANE	4.206	94	666746	8.2781	PPBV	98
15) CHLOROETHANE	4.329	64	268263	7.9252	PPBV	91
16) DICHLOROFLUOROMETHANE	4.396	67	1463441	8.9219	PPBV	97
17) ACETONITRILE	4.592	41	579883	9.5091	PPBV	99
18) ACROLEIN	4.690	56	236601	8.7771	PPBV	97
19) FREON 123	4.708	83	1446927	8.1656	PPBV	95
20) FREON 123A	4.751	117	937978	9.3860	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.916	101	2000327	11.2371	PPBV	99
22) ISOPROPYL ALCOHOL	4.995	45	1178662	12.5298	PPBV	98
23) ACETONE	4.794	58	247986	8.1995	PPBV	# 62
24) PENTANE	5.204	42	534773	11.2439	PPBV	98
25) IODOMETHANE	5.393	142	1785419	12.7247	PPBV	97
26) 1,1-DICHLOROETHYLENE	5.454	96	483949	10.3500	PPBV	99
27) CARBON DISULFIDE	5.828	76	1290928	9.8629	PPBV	96
28) ETHANOL	4.427	45	337783	9.2485	PPBV	99
29) BROMOETHENE	4.598	106	666280	8.7348	PPBV	98
30) ACRYLONITRILE	5.173	52	299258	10.5460	PPBV	98
31) METHYLENE CHLORIDE	5.564	84	414515	9.0096	PPBV	84
32) 3-CHLOROPROPENE	5.668	76	212019	10.5283	PPBV	# 79
33) FREON 113	5.791	151	1000733	11.5199	PPBV	90
34) TRANS-1,2-DICHLOROETHYLENE	6.427	96	503830	10.2722	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.516	59	854991	10.7940	PPBV	98
36) METHYL TERTIARY BUTYL ETHER	6.684	73	1212875	10.4103	PPBV	94
37) TETRAHYDROFURAN	8.213	72	198958	10.7519	PPBV	# 75
38) HEXANE	7.681	57	729519	11.0216	PPBV	95
39) VINYL ACETATE	6.782	86	85947	11.4848	PPBV	# 60
40) 1,1-DICHLOROETHANE	6.623	63	867795	10.3714	PPBV	98
41) METHYL ETHYL KETONE	7.027	72	209100	11.1643	PPBV	# 54
42) cis-1,2-DICHLOROETHYLENE	7.473	96	536176	10.0576	PPBV	99
43) DIISOPROPYL ETHER	7.687	59	219771	11.1048	PPBV	# 78
44) ETHYL ACETATE	7.724	61	158818	11.2345	PPBV	# 98
45) METHYL ACRYLATE	7.712	55	905748	11.4879	PPBV	98
46) CHLOROFORM	7.785	83	1110888	9.9414	PPBV	96
47) 2,4-DIMETHYLPENTANE	8.642	57	814997	11.4311	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.856	97	1238648	10.7043	PPBV	99
49) CARBON TETRACHLORIDE	9.547	117	1484124	11.6256	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\
Data File : 5w56525.D
Acq On : 30 Jan 2025 3:00 pm
Operator : thomash
Sample : bsd Inst : GCMS5W
Misc : MS89211,V5W2165,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 07:49:37 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.580	62	753814	11.0635	PPBV	99
52) BENZENE	9.376	78	1401205	9.9380	PPBV	98
53) CYCLOHEXANE	9.676	84	570238	10.3609	PPBV	92
54) 2,3-DIMETHYLPENTANE	9.981	71	280029	9.9097	PPBV #	83
55) TRICHLOROETHYLENE	10.630	95	762673	10.1379	PPBV	97
56) 1,2-DICHLOROPROPANE	10.342	63	556091	9.8101	PPBV	99
57) DIBROMOMETHANE	10.318	174	911823	11.2568	PPBV	89
58) ETHYL ACRYLATE	10.391	55	1091582	11.7453	PPBV	99
59) BROMODICHLOROMETHANE	10.587	83	1310953	9.8540	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.667	57	2305588	11.3731	PPBV	100
61) 1,4-DIOXANE	10.648	88	351395	10.5431	PPBV	93
62) HEPTANE	11.009	43	935693	12.6484	PPBV	90
63) METHYL METHACRYLATE	10.917	69	489162	10.9682	PPBV	82
64) METHYL ISOBUTYL KETONE	11.768	58	450192	11.6619	PPBV #	87
65) cis-1,3-DICHLOROPROPENE	11.713	75	968320	11.0875	PPBV	94
66) TOLUENE	12.942	92	1090485	10.6984	PPBV	99
67) 1,3-DICHLOROPROPANE	12.991	76	878385	10.3257	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.392	75	872310	10.3324	PPBV	95
69) 1,1,2-TRICHLOROETHANE	12.594	83	601396	10.0581	PPBV	96
71) 2-HEXANONE	13.340	58	651823	13.5108	PPBV	88
72) ETHYL METHACRYLATE	13.371	69	860560	11.7702	PPBV	84
73) TETRACHLOROETHYLENE	14.453	164	983410	12.9489	PPBV	94
74) DIBROMOCHLOROMETHANE	13.493	129	1686307	12.6694	PPBV	100
75) 1,2-DIBROMOETHANE	13.811	107	1271609	12.8356	PPBV	100
76) OCTANE	14.313	43	1387426	14.6954	PPBV	91
77) 1,1,1,2-TETRACHLOROETHANE	15.377	131	1088714	12.1484	PPBV	98
78) CHLOROBENZENE	15.389	112	1707896	11.5236	PPBV	95
79) ETHYLBENZENE	15.946	91	2483213	12.6579	PPBV	98
80) m,p-XYLENE	16.221	106	2026895	25.7864	PPBV	94
81) o-XYLENE	16.888	106	1014996	13.2773	PPBV	95
82) STYRENE	16.735	104	1514639	13.5909	PPBV	98
83) NONANE	17.298	43	1480150	15.2363	PPBV	92
84) BROMOFORM	16.277	173	1916908	14.7318	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.894	83	1669483	11.4399	PPBV	97
87) 1,2,3-TRICHLOROPROPANE	17.084	75	1116547	11.1608	PPBV	95
88) ISOPROPYLBENZENE	17.800	105	2922021	12.4856	PPBV	99
89) BROMOBENZENE	17.898	77	1284087	10.6954	PPBV	82
90) 2-CHLOROTOLUENE	18.534	126	819595	12.6778	PPBV	98
91) n-PROPYLBENZENE	18.626	120	824903	13.2337	PPBV	100
92) 4-ETHYLTOLUENE	18.870	105	3012306	13.5875	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	18.999	105	2491984	13.6680	PPBV	100
94) ALPHA-METHYLSTYRENE	19.244	118	1317604	13.4904	PPBV	100
95) tert-BUTYLBENZENE	19.605	134	592443	13.2474	PPBV	96
96) 1,2,4-TRIMETHYLBENZENE	19.617	105	2666856	13.4318	PPBV	100
97) m-DICHLOROBENZENE	19.806	146	2110906	12.7951	PPBV	98
98) BENZYL CHLORIDE	19.800	91	2404737	12.3806	PPBV	98
99) p-DICHLOROBENZENE	19.910	146	2092438	13.4883	PPBV	98
100) sec-BUTYLBENZENE	20.008	134	720031	13.4680	PPBV	95
101) 1,2,3-TRIMETHYLBENZENE	20.229	105	2629553	13.4602	PPBV #	100
102) p-ISOPROPYLTOLUENE	20.253	134	835319	13.1708	PPBV	97
103) o-DICHLOROBENZENE	20.394	146	1966534	13.0561	PPBV	99
104) n-BUTYLBENZENE	20.846	134	821148	13.6762	PPBV	94
105) HEXACHLOROETHANE	21.305	117	1508721	14.0328	PPBV	94
106) HEXACHLOROBUTADIENE	23.343	225	2230414	15.3768	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.202	180	2137417	15.2836	PPBV	96
108) NAPHTHALENE	22.859	128	4338658	14.4041	PPBV	100
110) TVHC as equiv Pentane	5.204	TIC	3395335	11.4176	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\
Data File : 5W56525.D
Acq On : 30 Jan 2025 3:00 pm
Operator : thomash
Sample : bsd Inst : GCMS5W
Misc : MS89211,V5W2165,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 07:49:37 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

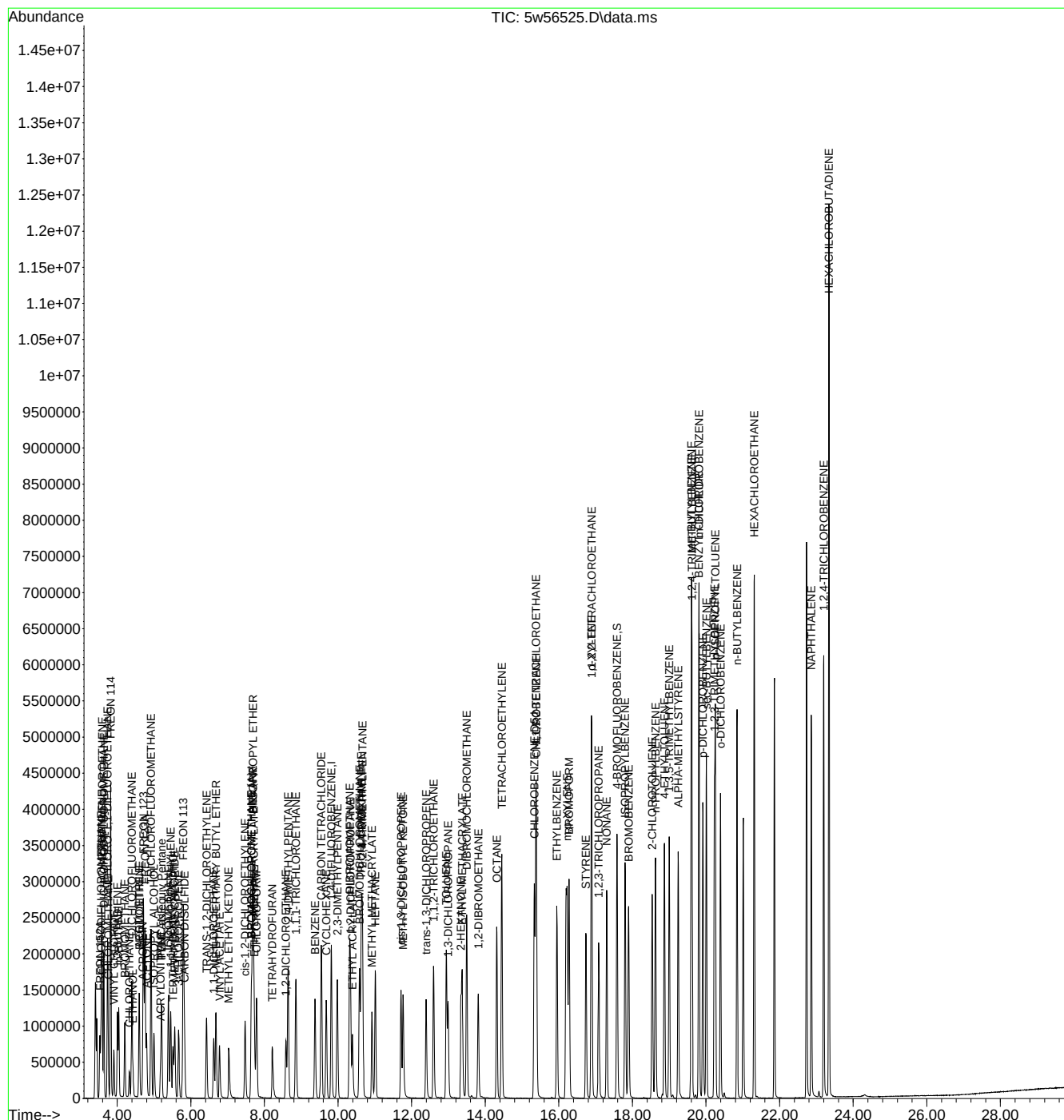
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

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Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\  
Data File : 5w56525.D  
Acq On    : 30 Jan 2025    3:00 pm  
Operator  : thomash  
Sample    : bsd  
Misc      : MS89211,V5W2165,,,,,1  
ALS Vial  : 2    Sample Multiplier: 1  
Inst      : GCMS5W
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Quant Time: Jan 31 07:49:37 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration



7.3.12



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12290.D
Acq On : 31 Jan 2025 11:39 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS89099,v7w437,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 21:36:48 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	128223	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.496	114	646372	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.036	117	604995	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	128219	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.383	95	468868	10.68	PPBV	0.00
Target Compounds						
					Qvalue	
3) FREON 152A	1.627	65	62213	10.1886	PPBV	97
4) CHLORODIFLUOROMETHANE	1.640	67	32238	10.4000	PPBV	100
5) CHLOROTRIFLUOROETHENE	1.650	116	153743	10.2964	PPBV	81
6) DICHLORODIFLUOROMETHANE	1.666	85	380712	11.9083	PPBV	98
7) PROPYLENE	1.647	41	67720	8.0480	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	1.705	65	290849	12.2832	PPBV	98
9) FREON 114	1.737	85	325072	12.8186	PPBV	98
10) CHLOROMETHANE	1.708	52	30128	9.0778	PPBV	95
11) VINYL CHLORIDE	1.769	62	119036	11.0997	PPBV	99
12) 1,3-BUTADIENE	1.808	54	85372	9.3428	PPBV	98
13) N-BUTANE	1.824	43	148719	8.9430	PPBV	97
14) BROMOMETHANE	1.885	94	110683	11.5444	PPBV	100
15) CHLOROETHANE	1.933	64	62578	10.7825	PPBV	96
16) DICHLOROFLUOROMETHANE	1.955	67	258954	11.4538	PPBV	99
17) ACETONITRILE	2.023	41	82042	7.9609	PPBV	100
18) ACRYLONITRILE	2.062	56	43477	8.0323	PPBV	98
19) FREON 123	2.078	83	285933	11.7197	PPBV	97
20) FREON 123A	2.094	117	170683	11.2364	PPBV	95
21) TRICHLOROFLUOROMETHANE	2.158	101	334485	11.8803	PPBV	100
22) ISOPROPYL ALCOHOL	2.174	45	209050	8.8006	PPBV	97
23) ACETONE	2.100	58	57212	7.6796	PPBV	92
24) PENTANE	2.274	42	103846	9.1013	PPBV	96
25) IODOMETHANE	2.332	142	316904	12.2818	PPBV	100
26) 1,1-DICHLOROETHYLENE	2.361	96	121166	10.8983	PPBV	93
27) CARBON DISULFIDE	2.496	76	344759	12.4521	PPBV	98
28) ETHANOL	1.962	45	65702	10.1039	PPBV	100
29) BROMOETHENE	2.033	106	115040	11.2626	PPBV	98
30) ACRYLONITRILE	2.242	52	80150	8.6925	PPBV	98
31) METHYLENE CHLORIDE	2.396	84	109233	10.7632	PPBV	89
32) 3-CHLOROPROPENE	2.438	76	59713	11.3098	PPBV	80
33) FREON 113	2.492	151	211184	12.5453	PPBV	99
34) TRANS-1,2-DICHLOROETHENE	2.721	96	128894	11.1366	PPBV	94
35) TERTIARY BUTYL ALCOHOL	2.373	59	253831	9.2914	PPBV	99
36) METHYL TERTIARY BUTYL ...	2.827	73	341119	10.3067	PPBV	97
37) TETRAHYDROFURAN	3.508	72	57233	11.1592	PPBV	87
38) HEXANE	3.280	57	203018	9.6137	PPBV	98
39) VINYL ACETATE	2.862	86	31348	10.0072	PPBV	77
40) 1,1-DICHLOROETHANE	2.795	63	215562	10.4093	PPBV	99
41) METHYL ETHYL KETONE	2.959	72	61432	10.7838	PPBV	80
42) CIS-1,2-DICHLOROETHENE	3.152	96	129764	10.8852	PPBV	96
43) DIISOPROPYL ETHER	3.283	59	60058	10.2693	PPBV	87
44) ETHYL ACETATE	3.287	61	42843	10.5888	PPBV	89
45) METHYL ACRYLATE	3.274	55	244531	10.3069	PPBV #	100
46) CHLOROFORM	3.299	83	273630	11.6754	PPBV	97
47) 2,4-DIMETHYLPENTANE	3.788	57	229440	9.8269	PPBV	97
48) 1,1,1-TRICHLOROETHANE	3.865	97	276254	10.9919	PPBV	100
49) CARBON TETRACHLORIDE	4.283	117	279096	11.1972	PPBV	100
50) 1,2-DICHLOROETHANE	3.705	62	195937	11.1665	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12290.D
Acq On : 31 Jan 2025 11:39 am
Operator : williamc
Sample : bs
Misc : MS89099,v7w437,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 21:36:48 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) BENZENE	4.171	78	377330	11.0186	PPBV	96
53) CYCLOHEXANE	4.380	84	167688	10.9806	PPBV	92
54) 2,3-DIMETHYLPENTANE	4.634	71	85132	10.6177	PPBV	91
55) TRICHLOROETHENE	5.061	95	182281	11.0941	PPBV	97
56) 1,2-DICHLOROPROPANE	4.833	63	143108	10.2094	PPBV	97
57) DIBROMOMETHANE	4.791	174	158744	10.2823	PPBV	100
58) ETHYL ACRYLATE	4.949	55	299000	10.0390	PPBV	99
59) BROMODICHLOROMETHANE	5.007	83	301315	11.5109	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	5.155	57	627441	10.0949	PPBV	99
61) 1,4-DIOXANE	5.078	88	93339	10.1882	PPBV	93
62) HEPTANE	5.470	43	212091	9.7097	PPBV	93
63) METHYL METHACRYLATE	5.367	69	143182	10.1993	PPBV	91
64) METHYL ISOBUTYL KETONE	6.097	58	125958	9.6590	PPBV	93
65) CIS-1,3-DICHLOROPROPENE	5.991	75	239182	10.8958	PPBV	94
66) TOLUENE	7.190	91	475167	10.4038	PPBV	99
67) 1,3-DICHLOROPROPANE	7.248	76	242079	11.3489	PPBV	99
68) TRANS-1,3-DICHLOROPROPENE	6.663	75	206819	10.0220	PPBV	93
69) 1,1,2-TRICHLOROETHANE	6.820	83	139808	11.1361	PPBV	99
70) 2-HEXANONE	7.756	58	174600	8.5743	PPBV	93
71) ETHYL METHACRYLATE	7.891	69	242229	9.9248	PPBV	94
72) TETRACHLOROETHENE	8.907	164	196581	11.3598	PPBV	97
73) DIBROMOCHLOROMETHANE	7.717	129	289389	10.9714	PPBV	100
74) 1,2-DIBROMOETHANE	8.058	107	265985	11.5733	PPBV	100
75) OCTANE	9.061	43	291409	9.4160	PPBV	94
77) 1,1,1,2-TETRACHLOROETHANE	10.122	131	214948	11.1164	PPBV	97
78) CHLOROBENZENE	10.109	112	395465	11.2332	PPBV	98
79) ETHYLBENZENE	10.990	91	641355	10.7631	PPBV	99
80) M,P-XYLENE	11.418	91	1021711	21.8728	PPBV	98
81) O-XYLENE	12.347	91	523513	11.1590	PPBV	100
82) STYRENE	12.138	104	384968	11.4575	PPBV	98
83) NONANE	13.469	43	314716	9.7664	PPBV	95
84) BROMOFORM	11.222	173	278316	11.9998	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	12.357	83	382850	12.2624	PPBV	98
86) 1,2,3-TRICHLOROPROPANE	12.640	75	294332	11.8165	PPBV	100
88) ISOPROPYLBENZENE	13.859	120	195006	10.8804	PPBV	94
89) BROMOBENZENE	13.723	77	368664	11.0344	PPBV	99
90) 2-CHLOROTOLUENE	14.855	126	174458	10.7004	PPBV	100
91) N-PROPYLBENZENE	15.196	120	200918	11.0603	PPBV	99
92) 4-ETHYLTOLUENE	15.640	105	751212	11.5295	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	15.910	105	634279	11.5675	PPBV	98
94) ALPHA-METHYLSTYRENE	16.212	118	314708	11.2381	PPBV	98
95) TERT-BUTYLBENZENE	16.527	134	157573	12.0069	PPBV	98
96) 1,2,4-TRIMETHYLBENZENE	16.537	105	676200	12.2258	PPBV	97
97) BENZYL CHLORIDE	16.627	91	456906	9.3292	PPBV	98
98) M-DICHLOROBENZENE	16.598	146	447025	11.8494	PPBV	100
99) P-DICHLOROBENZENE	16.691	146	453157	12.3418	PPBV	100
100) O-DICHLOROBENZENE	17.010	146	434975	12.2107	PPBV	100
101) SEC-BUTYLBENZENE	16.836	134	201522	12.3224	PPBV	99
102) 1,2,3-TRIMETHYLBENZENE	16.955	105	657957	11.8761	PPBV	98
103) P-ISOPROPYLTOLUENE	17.032	134	221843	12.2367	PPBV	97
104) N-BUTYLBENZENE	17.395	134	215459	12.1640	PPBV	91
105) HEXACHLOROETHANE	17.572	117	241736	11.4557	PPBV	97
106) HEXACHLOROBUTADIENE	18.630	225	367467	13.8672	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.318	180	423475	13.9076	PPBV	99
108) NAPHTHALENE	18.366	128	858178	12.6985	PPBV	99
110) TVHC as equiv Pentane	2.274	TIC	516537	9.4877	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12290.D
Acq On : 31 Jan 2025 11:39 am
Operator : williamc
Sample : bs Inst : MS7W
Misc : MS89099,v7w437,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 21:36:48 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

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

7.3.13

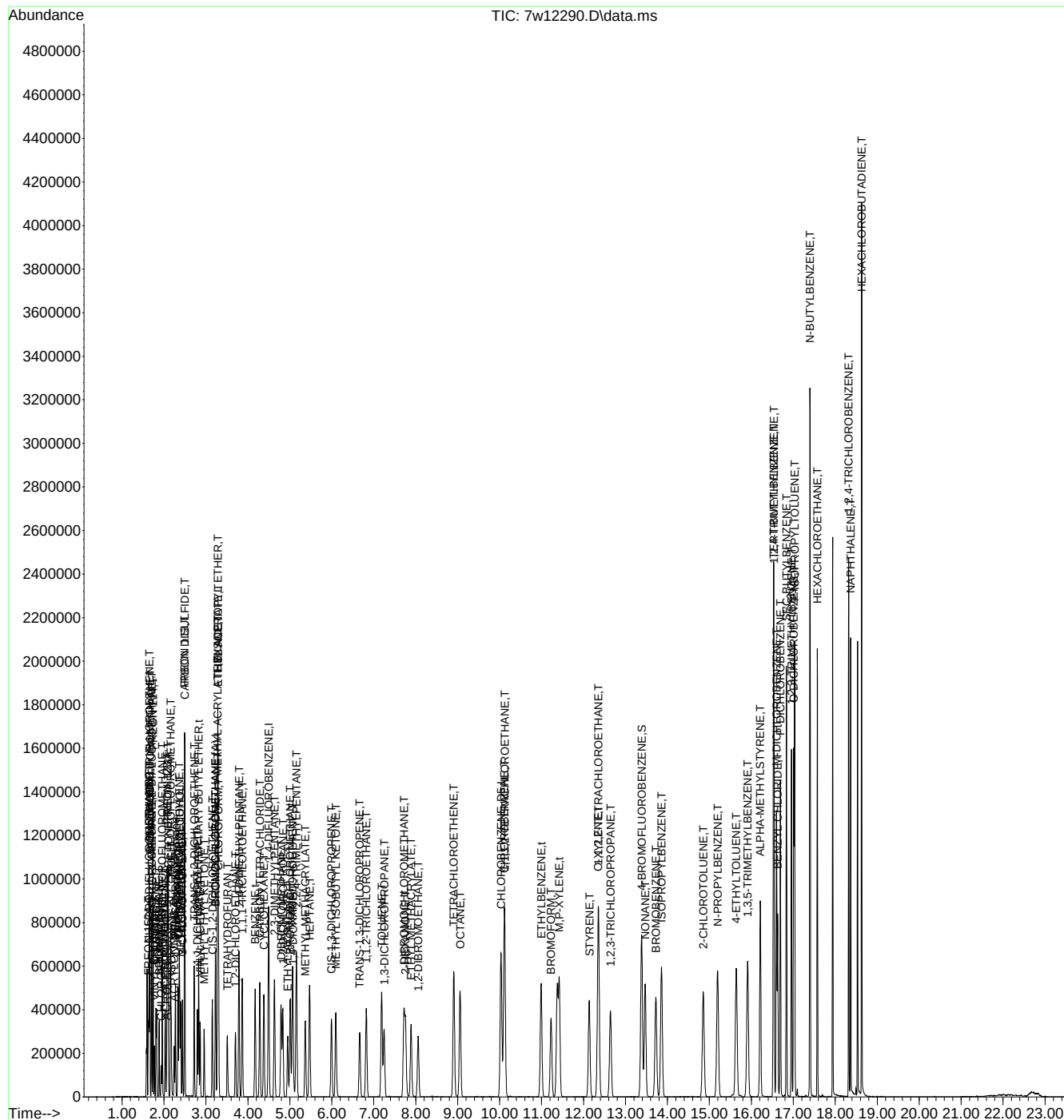
7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12290.D
Acq On : 31 Jan 2025 11:39 am
Operator : williamc
Sample : bs
Misc : MS89099,v7w437,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Inst : MS7W

Quant Time: Jan 31 21:36:48 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12291.D
Acq On : 31 Jan 2025 12:18 pm
Operator : williamc
Sample : bsd
Misc : MS89099,v7w437,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 21:37:41 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	129038	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.495	114	653386	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	612403	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	129038	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.386	95	473432	10.65	PPBV	0.00
Target Compounds						
					Qvalue	
3) FREON 152A	1.631	65	63239	10.2912	PPBV	97
4) CHLORODIFLUOROMETHANE	1.643	67	32973	10.5699	PPBV	100
5) CHLOROTRIFLUOROETHENE	1.653	116	156043	10.3844	PPBV	82
6) DICHLORODIFLUOROMETHANE	1.669	85	383992	11.9351	PPBV	98
7) PROPYLENE	1.653	41	69669	8.2274	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	1.708	65	291807	12.2459	PPBV	98
9) FREON 114	1.743	85	327657	12.8389	PPBV	98
10) CHLOROMETHANE	1.714	52	30683	9.1866	PPBV	98
11) VINYL CHLORIDE	1.775	62	116598	10.8037	PPBV	98
12) 1,3-BUTADIENE	1.814	54	84658	9.2061	PPBV	97
13) N-BUTANE	1.827	43	150196	8.9747	PPBV	98
14) BROMOMETHANE	1.888	94	111582	11.5647	PPBV	98
15) CHLOROETHANE	1.936	64	62706	10.7364	PPBV	98
16) DICHLOROFLUOROMETHANE	1.962	67	260735	11.4598	PPBV	98
17) ACETONITRILE	2.026	41	82344	7.9397	PPBV	99
18) ACROLEIN	2.068	56	43636	8.0108	PPBV	97
19) FREON 123	2.081	83	287635	11.7150	PPBV	98
20) FREON 123A	2.097	117	172906	11.3109	PPBV	96
21) TRICHLOROFLUOROMETHANE	2.161	101	337221	11.9018	PPBV	100
22) ISOPROPYL ALCOHOL	2.177	45	209542	8.7656	PPBV	97
23) ACETONE	2.106	58	57357	7.6504	PPBV	94
24) PENTANE	2.277	42	103047	8.9742	PPBV	96
25) IODOMETHANE	2.335	142	323758	12.4682	PPBV	100
26) 1,1-DICHLOROETHYLENE	2.364	96	121632	10.8711	PPBV	94
27) CARBON DISULFIDE	2.495	76	345349	12.3946	PPBV	98
28) ETHANOL	1.965	45	65783	10.0525	PPBV	99
29) BROMOETHENE	2.036	106	115242	11.2112	PPBV	98
30) ACRYLONITRILE	2.245	52	80117	8.6340	PPBV	97
31) METHYLENE CHLORIDE	2.399	84	110291	10.7988	PPBV	90
32) 3-CHLOROPROPENE	2.441	76	60281	11.3453	PPBV	81
33) FREON 113	2.495	151	210482	12.4246	PPBV	98
34) TRANS-1,2-DICHLOROETHENE	2.721	96	123548	10.6073	PPBV	91
35) TERTIARY BUTYL ALCOHOL	2.377	59	260038	9.4585	PPBV	99
36) METHYL TERTIARY BUTYL ...	2.827	73	347724	10.4399	PPBV	97
37) TETRAHYDROFURAN	3.508	72	59057	11.4422	PPBV	85
38) HEXANE	3.280	57	206144	9.7001	PPBV	98
39) VINYL ACETATE	2.862	86	32470	10.2999	PPBV	75
40) 1,1-DICHLOROETHANE	2.794	63	219875	10.5505	PPBV	99
41) METHYL ETHYL KETONE	2.958	72	63227	11.0288	PPBV	79
42) CIS-1,2-DICHLOROETHENE	3.151	96	132200	11.0195	PPBV	96
43) DIISOPROPYL ETHER	3.280	59	60851	10.3392	PPBV	87
44) ETHYL ACETATE	3.286	61	43304	10.6352	PPBV	90
45) METHYL ACRYLATE	3.274	55	249628	10.4553	PPBV #	99
46) CHLOROFORM	3.299	83	277553	11.7680	PPBV	97
47) 2,4-DIMETHYLPENTANE	3.788	57	234644	9.9863	PPBV	98
48) 1,1,1-TRICHLOROETHANE	3.865	97	282587	11.1729	PPBV	99
49) CARBON TETRACHLORIDE	4.283	117	284128	11.3271	PPBV	99
50) 1,2-DICHLOROETHANE	3.704	62	199521	11.2989	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12291.D
Acq On : 31 Jan 2025 12:18 pm
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS89099,v7w437,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 21:37:41 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) BENZENE	4.174	78	384382	11.1536	PPBV	96
53) CYCLOHEXANE	4.380	84	171789	11.1284	PPBV	91
54) 2,3-DIMETHYLPENTANE	4.630	71	86908	10.7229	PPBV	91
55) TRICHLOROETHENE	5.061	95	185686	11.1800	PPBV	97
56) 1,2-DICHLOROPROPANE	4.833	63	144003	10.1630	PPBV	97
57) DIBROMOMETHANE	4.791	174	161364	10.3398	PPBV	100
58) ETHYL ACRYLATE	4.949	55	306277	10.1729	PPBV	99
59) BROMODICHLOROMETHANE	5.010	83	305784	11.5562	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.158	57	638510	10.1627	PPBV	99
61) 1,4-DIOXANE	5.077	88	95522	10.3146	PPBV	95
62) HEPTANE	5.470	43	213551	9.6716	PPBV	92
63) METHYL METHACRYLATE	5.367	69	147591	10.4005	PPBV	90
64) METHYL ISOBUTYL KETONE	6.097	58	128541	9.7513	PPBV	93
65) CIS-1,3-DICHLOROPROPENE	5.994	75	244762	11.0303	PPBV	94
66) TOLUENE	7.190	91	485175	10.5089	PPBV	100
67) 1,3-DICHLOROPROPANE	7.248	76	246011	11.4095	PPBV	100
68) TRANS-1,3-DICHLOROPROPENE	6.662	75	213062	10.2137	PPBV	94
69) 1,1,2-TRICHLOROETHANE	6.823	83	144440	11.3816	PPBV	97
70) 2-HEXANONE	7.759	58	178910	8.6917	PPBV	93
71) ETHYL METHACRYLATE	7.888	69	248414	10.0689	PPBV	94
72) TETRACHLOROETHENE	8.907	164	202627	11.5835	PPBV	98
73) DIBROMOCHLOROMETHANE	7.720	129	295243	11.0732	PPBV	100
74) 1,2-DIBROMOETHANE	8.061	107	272097	11.7121	PPBV	100
75) OCTANE	9.058	43	296931	9.4914	PPBV	93
77) 1,1,1,2-TETRACHLOROETHANE	10.122	131	218764	11.1769	PPBV	97
78) CHLOROBENZENE	10.113	112	403131	11.3124	PPBV	99
79) ETHYLBENZENE	10.990	91	657706	10.9039	PPBV	99
80) M,P-XYLENE	11.421	91	1037299	21.9379	PPBV	98
81) O-XYLENE	12.347	91	533521	11.2348	PPBV	98
82) STYRENE	12.138	104	394577	11.6015	PPBV	99
83) NONANE	13.469	43	322445	9.8852	PPBV	95
84) BROMOFORM	11.225	173	281145	11.9752	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	12.363	83	388315	12.2869	PPBV	98
86) 1,2,3-TRICHLOROPROPANE	12.643	75	297061	11.7818	PPBV	100
88) ISOPROPYLBENZENE	13.858	120	199942	11.0208	PPBV	95
89) BROMOBENZENE	13.723	77	372636	11.0184	PPBV	99
90) 2-CHLOROTOLUENE	14.855	126	176046	10.6672	PPBV	99
91) N-PROPYLBENZENE	15.196	120	207109	11.2632	PPBV	99
92) 4-ETHYLTOLUENE	15.640	105	774283	11.7398	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	15.913	105	645106	11.6226	PPBV	98
94) ALPHA-METHYLSTYRENE	16.215	118	318485	11.2354	PPBV	98
95) TERT-BUTYLBENZENE	16.527	134	158791	11.9533	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	16.537	105	684374	12.2239	PPBV	97
97) BENZYL CHLORIDE	16.627	91	462498	9.3291	PPBV	97
98) M-DICHLOROBENZENE	16.598	146	452632	11.8529	PPBV	100
99) P-DICHLOROBENZENE	16.691	146	460655	12.3943	PPBV	100
100) O-DICHLOROBENZENE	17.009	146	439963	12.2013	PPBV	99
101) SEC-BUTYLBENZENE	16.839	134	202896	12.2563	PPBV	97
102) 1,2,3-TRIMETHYLBENZENE	16.955	105	667315	11.8993	PPBV	98
103) P-ISOPROPYLTOLUENE	17.032	134	224729	12.2460	PPBV	97
104) N-BUTYLBENZENE	17.392	134	221426	12.3496	PPBV	94
105) HEXACHLOROETHANE	17.572	117	239640	11.2190	PPBV	97
106) HEXACHLOROBUTADIENE	18.627	225	363176	13.5395	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.318	180	421252	13.6672	PPBV	99
108) NAPHTHALENE	18.363	128	875807	12.8026	PPBV	99
110) TVHC as equiv Pentane	2.277	TIC	528592	9.6475	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12291.D
Acq On : 31 Jan 2025 12:18 pm
Operator : williamc
Sample : bsd Inst : MS7W
Misc : MS89099,v7w437,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 21:37:41 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

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

Quantitation Report (QT Reviewed)

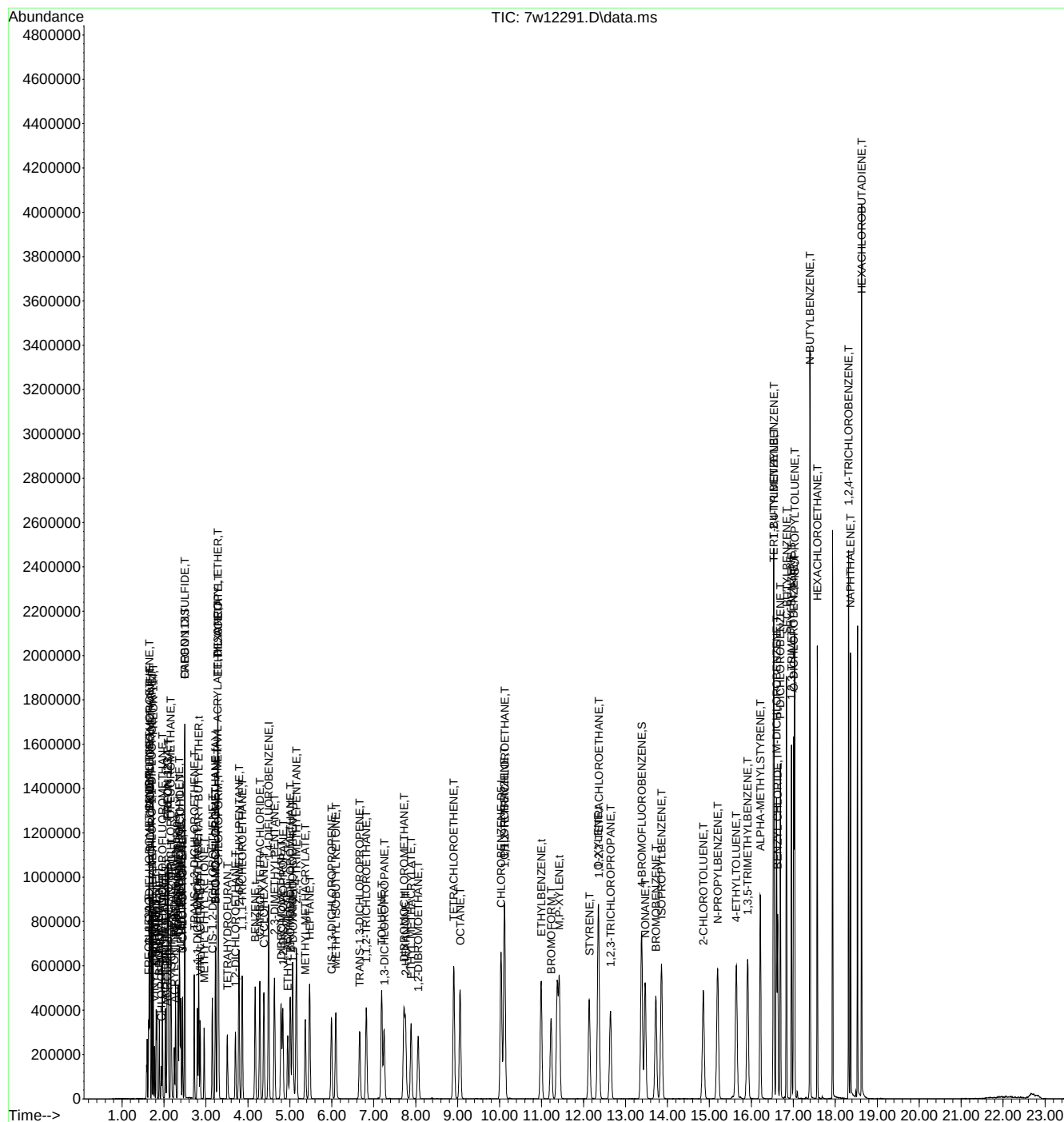
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Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7w437\
Data File : 7w12291.D
Acq On    : 31 Jan 2025  12:18 pm
Operator  : williamc
Sample    : bsd
Misc      : MS89099,v7w437,,,,,1
ALS Vial  : 2      Sample Multiplier: 1

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Inst : MS7W

Quant Time: Jan 31 21:37:41 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



M7W405.M Fri Jan 31 21:44:33 2025

Page: 4

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7.3.14



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2193\
Data File : 5w57169.D
Acq On : 4 Mar 2025 10:09 am
Operator : thomash
Sample : je5976-1dup Inst : GCMS5W
Misc : MS89870,V5W2193,400,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 06 06:09:42 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.553	128	384247	10.00	PPBV	-0.02
51) 1,4-DIFLUOROBENZENE	9.725	114	1808917	10.00	PPBV	-0.01
70) CHLOROBENZENE-D5	15.243	82	848996	10.00	PPBV	-0.01
109) BROMOCHLOROMETHANE (A)	7.553	128	384247	10.00	PPBV	#-0.02
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.494	95	1169245	10.68	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	106.80%
Target Compounds						
					Qvalue	
4) CHLORODIFLUOROMETHANE	3.509	67	3495	0.2582	PPBV	80
6) DICHLORODIFLUOROMETHANE	3.582	85	63255	0.5202	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.680	65	93997	0.9144	PPBV	95
10) CHLOROMETHANE	3.699	52	11711	0.7570	PPBV	99
13) n-BUTANE	3.986	43	53205	1.0523	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.849	101	37185	0.3117	PPBV	99
22) ISOPROPYL ALCOHOL	4.953	45	94801	1.2016	PPBV	94
23) ACETONE	4.739	58	91784	4.6463	PPBV	# 1
24) PENTANE	5.130	42	8014	0.2229	PPBV	90
28) ETHANOL	4.366	45	211087	10.7541	PPBV	99
31) METHYLENE CHLORIDE	5.491	84	11176	0.3012	PPBV	96
33) FREON 113	5.711	151	12052	0.1621	PPBV	90
37) TETRAHYDROFURAN	8.207	72	3667	0.2411	PPBV	88
38) HEXANE	7.596	57	11200	0.1714	PPBV	83
41) METHYL ETHYL KETONE	7.015	72	3876	0.2520	PPBV	# 73
44) ETHYL ACETATE	7.694	61	3584	0.3027	PPBV	# 61
52) BENZENE	9.290	78	19898	0.1588	PPBV	96
55) TRICHLOROETHYLENE	10.544	95	37638	0.5817	PPBV	94
79) ETHYLBENZENE	15.879	91	37018	0.1998	PPBV	98

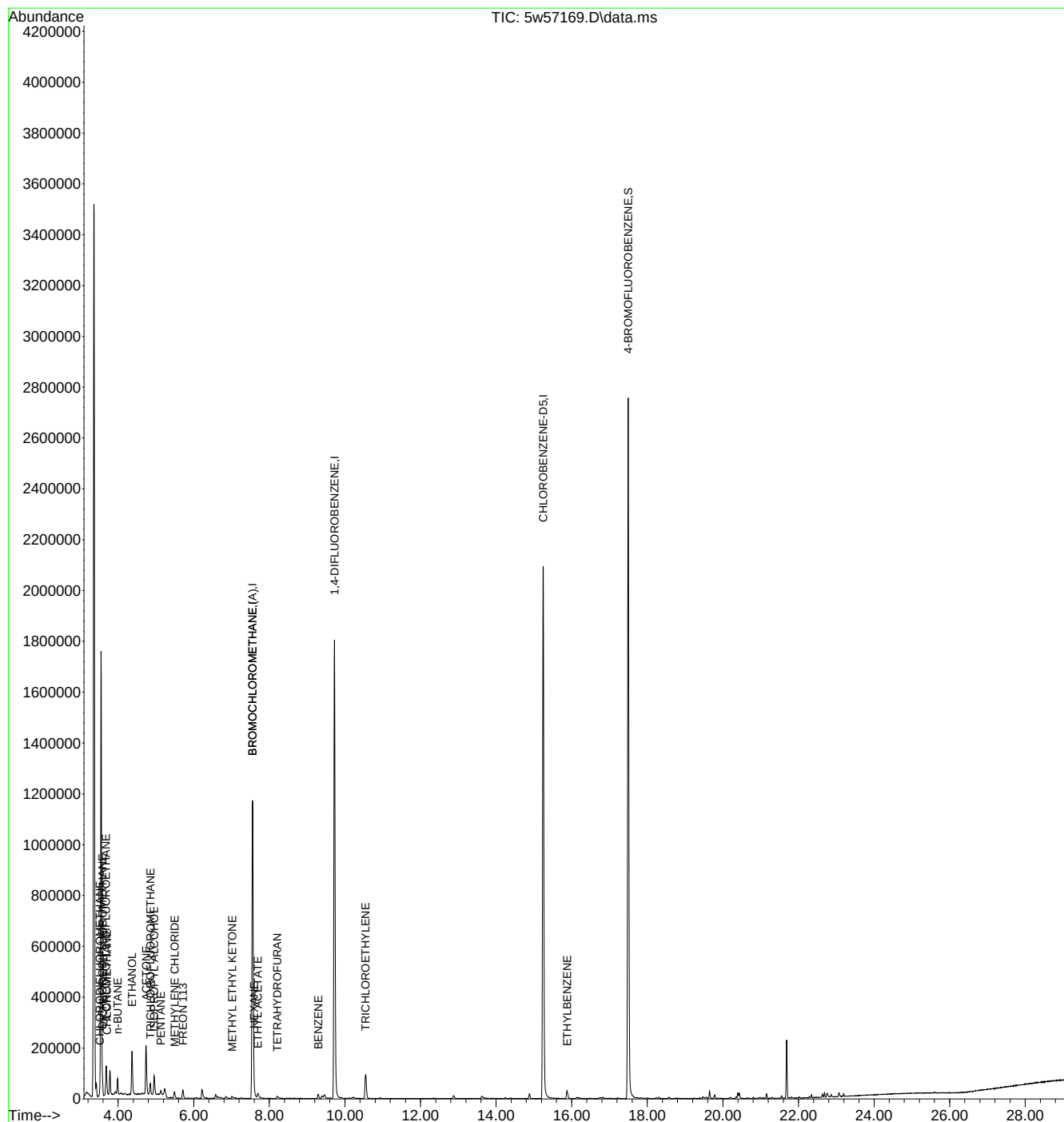
(#) = qualifier out of range (m) = manual integration (+) = signals summed

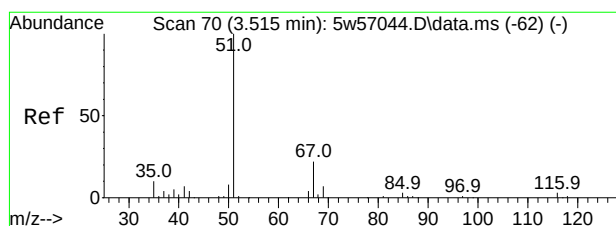
Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2193\
Data File : 5w57169.D
Acq On : 4 Mar 2025 10:09 am
Operator : thomash
Sample : je5976-1dup
Misc : MS89870,V5W2193,400,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Inst : GCMS5W

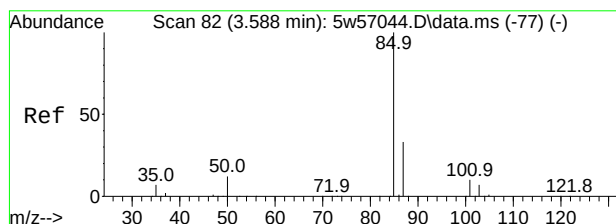
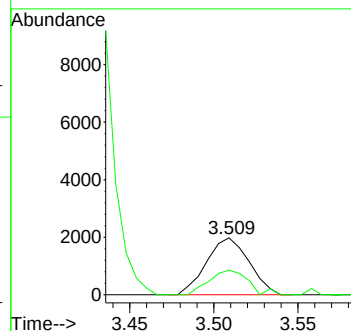
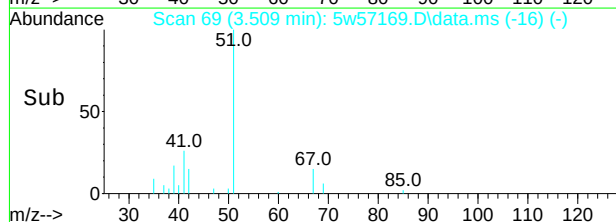
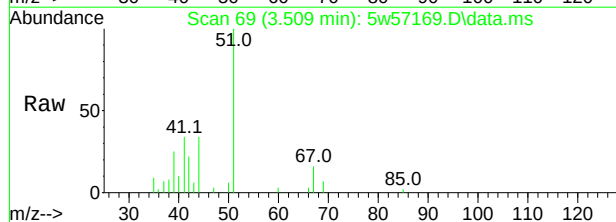
Quant Time: Mar 06 06:09:42 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration





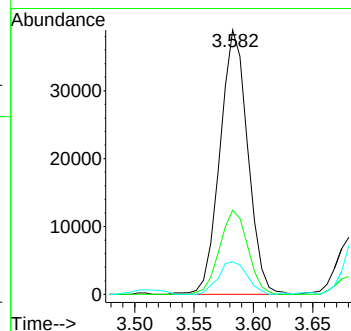
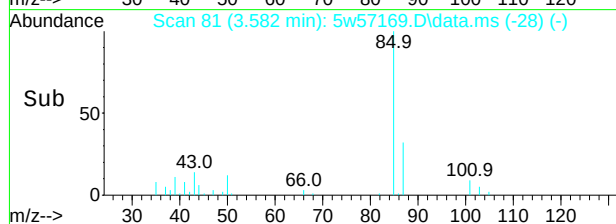
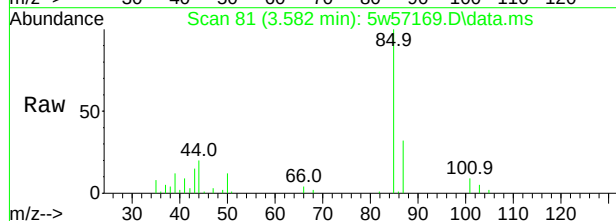
#4
CHLORODIFLUOROMETHANE
Concen: 0.2582 PPBV
RT: 3.509 min Scan# 69
Delta R.T. -0.006 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

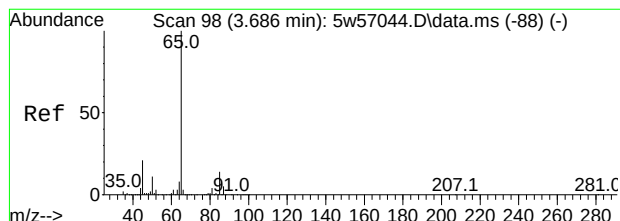
Tgt Ion: 67 Resp: 3495
Ion Ratio Lower Upper
67 100
69 43.5 2.3 62.3



#6
DICHLORODIFLUOROMETHANE
Concen: 0.5202 PPBV
RT: 3.582 min Scan# 81
Delta R.T. -0.006 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

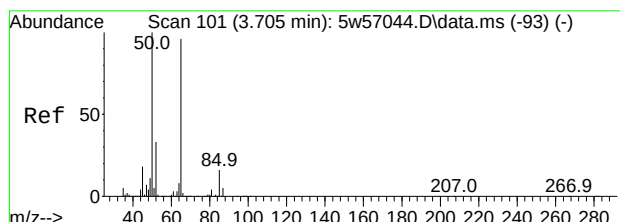
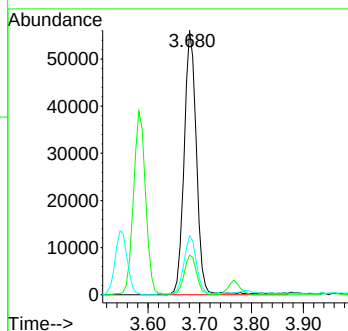
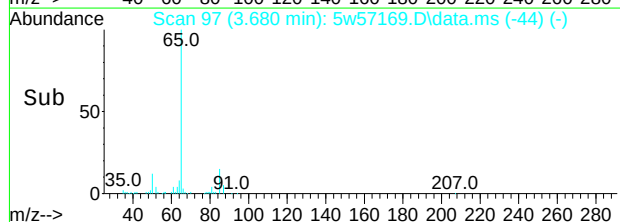
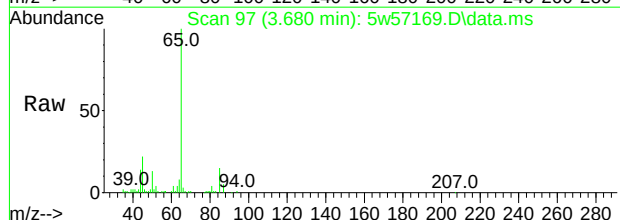
Tgt Ion: 85 Resp: 63255
Ion Ratio Lower Upper
85 100
87 32.1 2.7 62.7
50 12.8 0.0 42.6





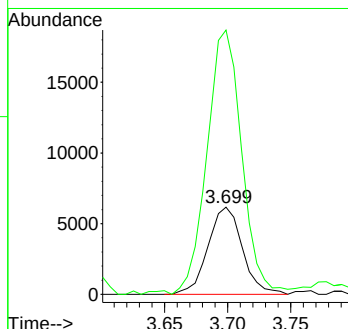
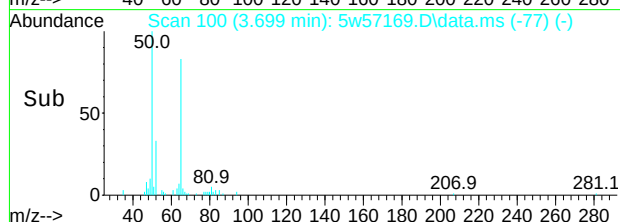
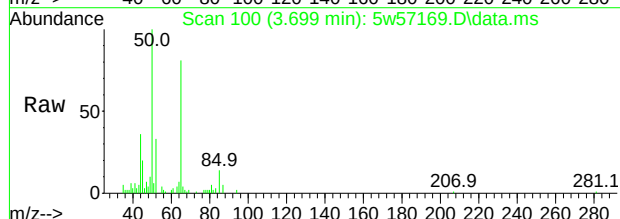
#8
1-CHLORO-1,1-DIFLUOROETHANE
Concen: 0.9144 PPBV
RT: 3.680 min Scan# 97
Delta R.T. -0.006 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

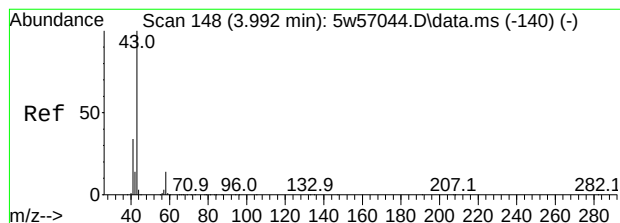
Tgt Ion	Ratio	Lower	Upper
65	100		
85	15.1	11.1	20.7
45	24.0	14.6	27.0



#10
CHLOROMETHANE
Concen: 0.7570 PPBV
RT: 3.699 min Scan# 100
Delta R.T. -0.006 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

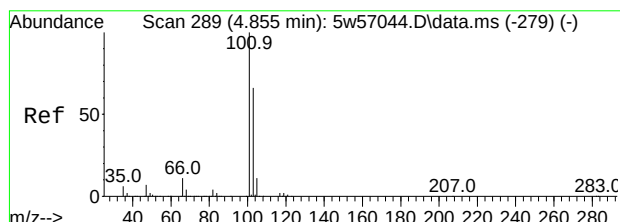
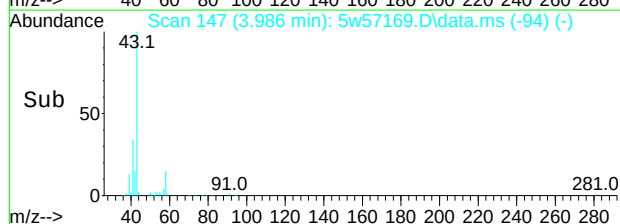
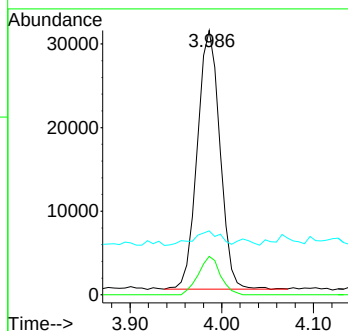
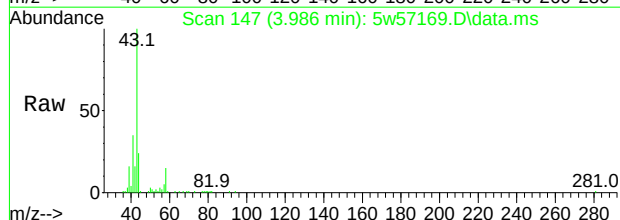
Tgt Ion	Ratio	Lower	Upper
52	100		
50	298.4	269.7	329.7





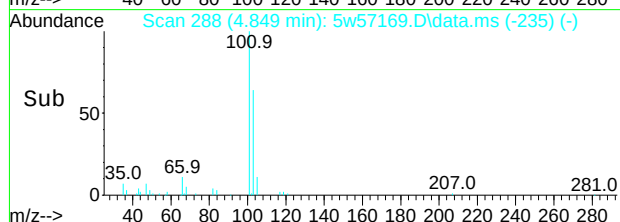
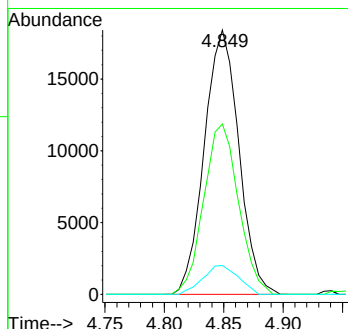
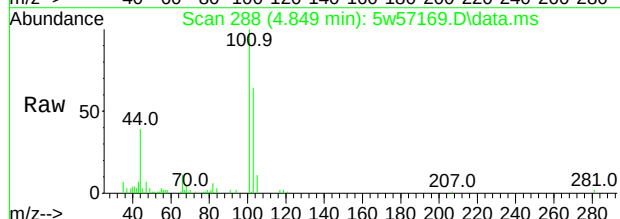
#13
n-BUTANE
Concen: 1.0523 PPBV
RT: 3.986 min Scan# 147
Delta R.T. -0.006 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

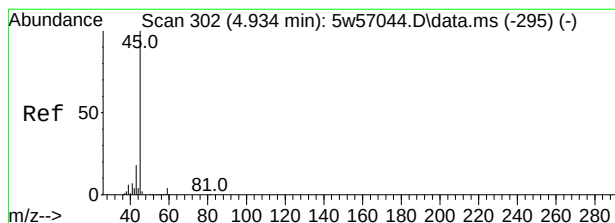
Tgt Ion: 43 Resp: 53205
Ion Ratio Lower Upper
43 100
58 14.3 0.0 43.8
44 6.1 0.0 35.5



#21
TRICHLOROFLUOROMETHANE
Concen: 0.3117 PPBV
RT: 4.849 min Scan# 288
Delta R.T. -0.006 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

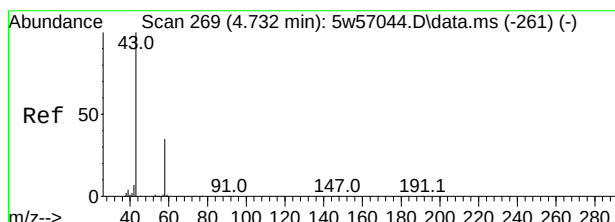
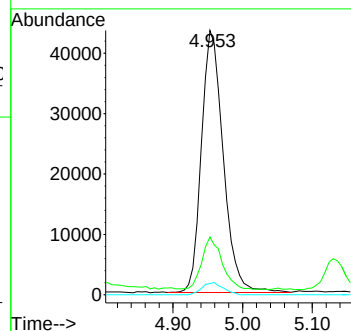
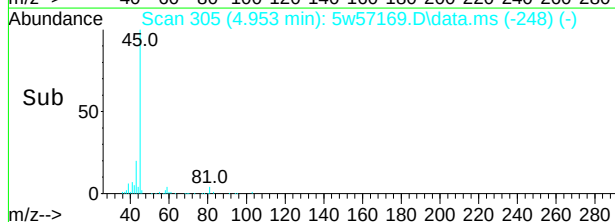
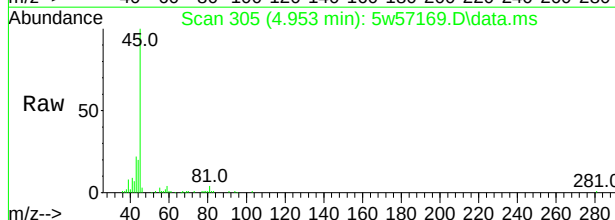
Tgt Ion: 101 Resp: 37185
Ion Ratio Lower Upper
101 100
103 64.8 35.5 95.5
105 11.3 0.0 40.8





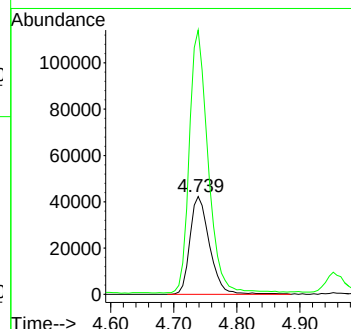
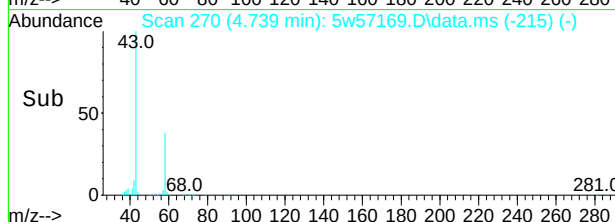
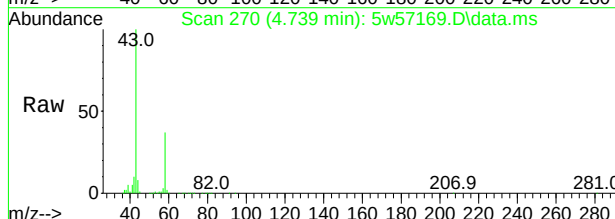
#22
ISOPROPYL ALCOHOL
Concen: 1.2016 PPBV
RT: 4.953 min Scan# 305
Delta R.T. 0.019 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

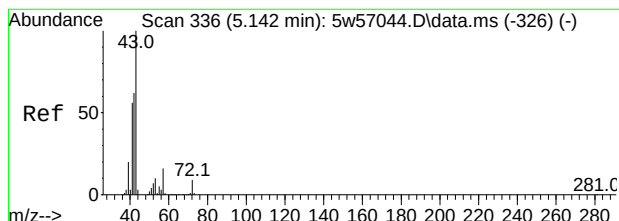
Tgt Ion	Ratio	Lower	Upper
45	100		
43	21.8	0.0	48.5
59	4.3	0.0	34.2



#23
ACETONE
Concen: 4.6463 PPBV
RT: 4.739 min Scan# 270
Delta R.T. 0.007 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

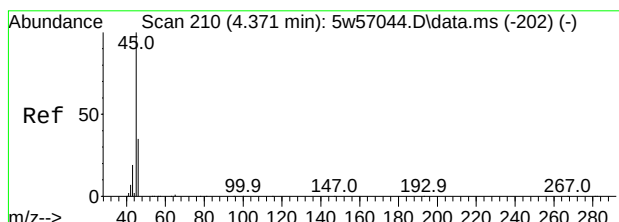
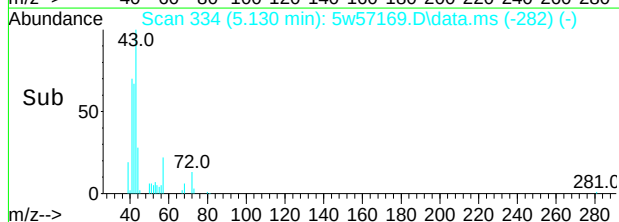
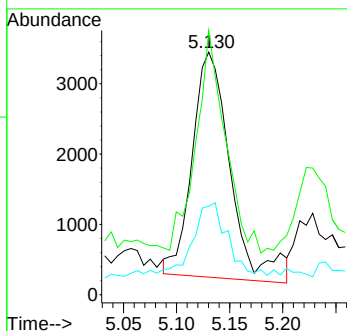
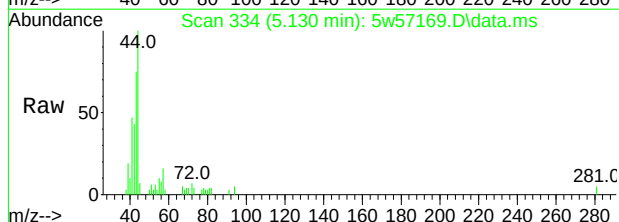
Tgt Ion	Ratio	Lower	Upper
58	100		
43	256.4	0.0	32.7#





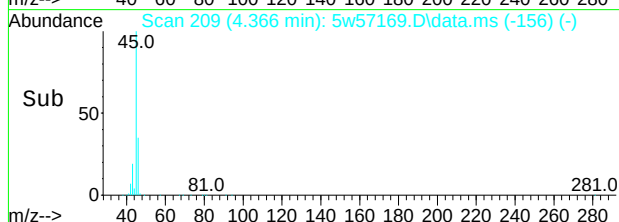
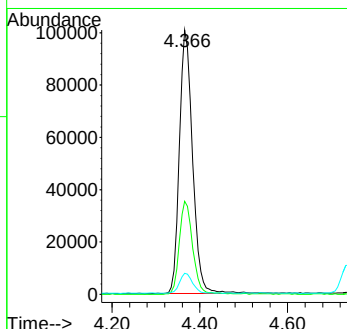
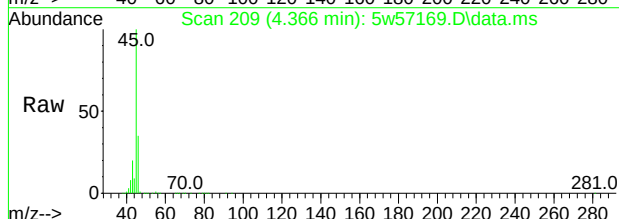
#24
PENTANE
Concen: 0.2229 PPBV
RT: 5.130 min Scan# 334
Delta R.T. -0.012 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

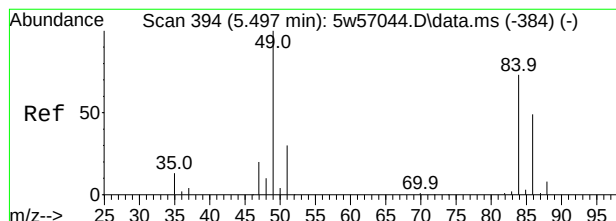
Tgt Ion: 42 Resp: 8014
Ion Ratio Lower Upper
42 100
41 85.8 62.9 122.9
57 36.3 0.0 57.4



#28
ETHANOL
Concen: 10.7541 PPBV
RT: 4.366 min Scan# 209
Delta R.T. -0.005 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

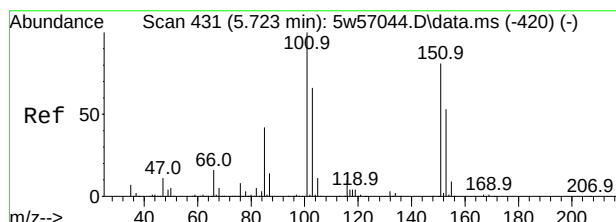
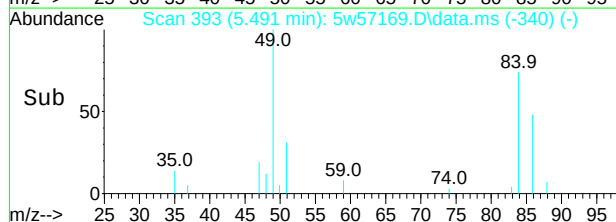
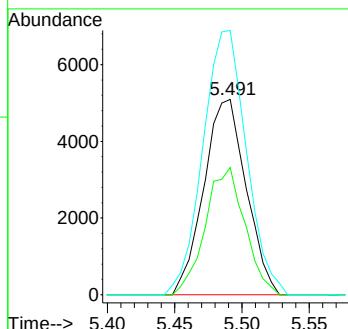
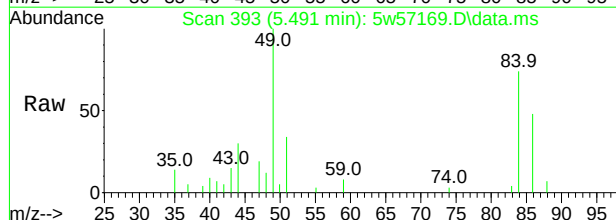
Tgt Ion: 45 Resp: 211087
Ion Ratio Lower Upper
45 100
46 36.0 5.4 65.4
42 7.6 0.0 37.7





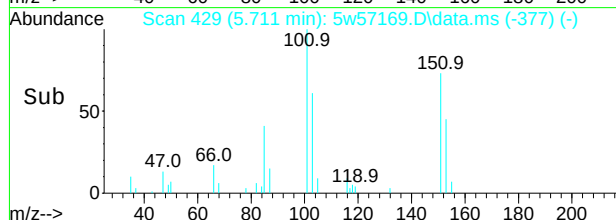
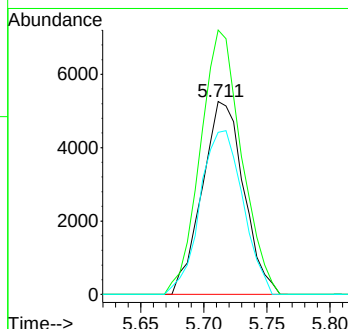
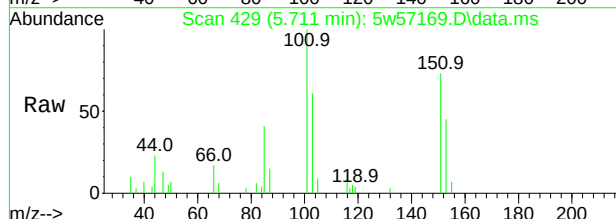
#31
METHYLENE CHLORIDE
Concen: 0.3012 PPBV
RT: 5.491 min Scan# 393
Delta R.T. -0.006 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

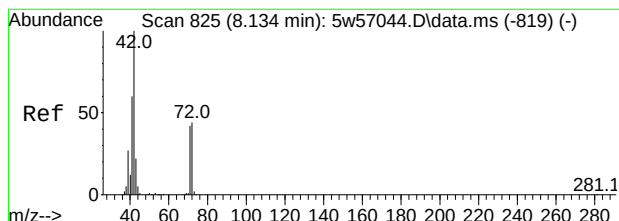
Tgt Ion	Ratio	Lower	Upper
84	100		
86	60.6	36.1	96.1
49	138.9	106.2	166.2



#33
FREON 113
Concen: 0.1621 PPBV
RT: 5.711 min Scan# 429
Delta R.T. -0.012 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

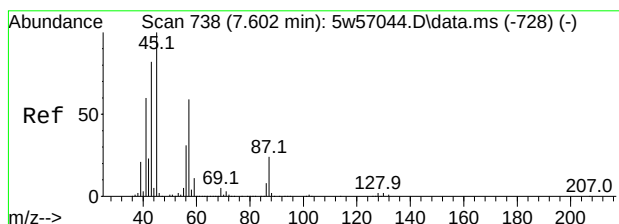
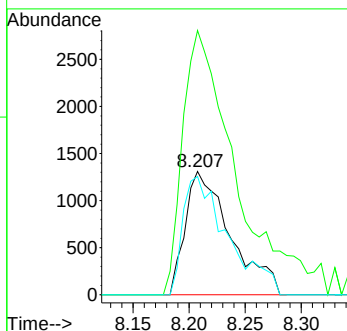
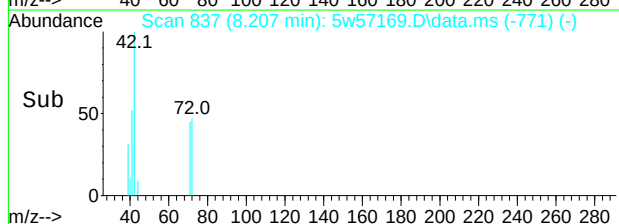
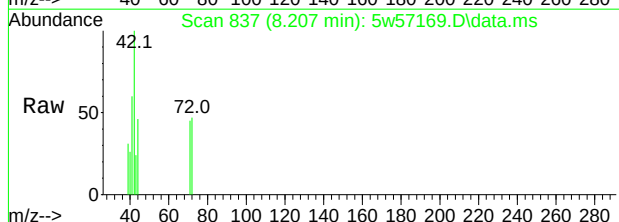
Tgt Ion	Ratio	Lower	Upper
151	100		
101	135.8	93.6	153.6
103	87.3	50.5	110.5





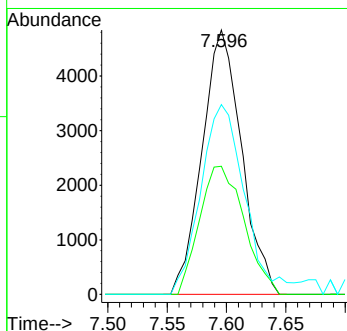
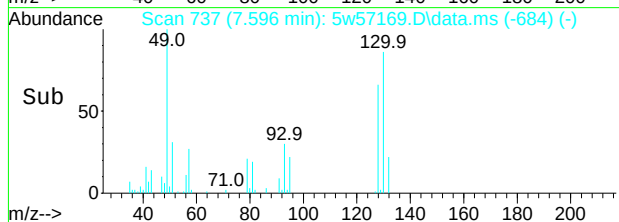
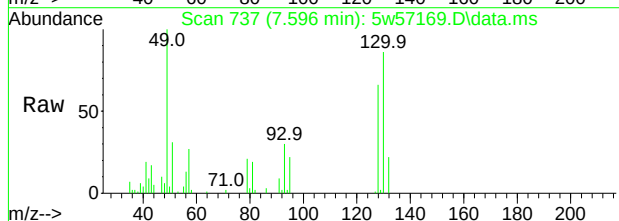
#37
TETRAHYDROFURAN
Concen: 0.2411 PPBV
RT: 8.207 min Scan# 837
Delta R.T. 0.073 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

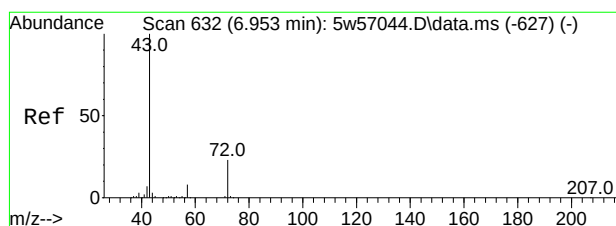
Tgt Ion: 72 Resp: 3667
Ion Ratio Lower Upper
72 100
42 254.0 197.6 257.6
71 95.6 69.0 129.0



#38
HEXANE
Concen: 0.1714 PPBV
RT: 7.596 min Scan# 737
Delta R.T. -0.006 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

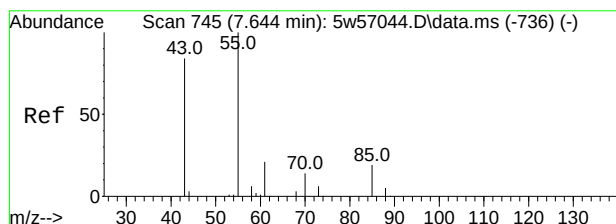
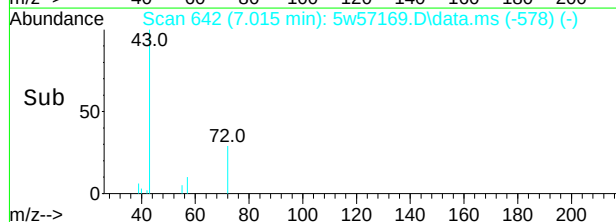
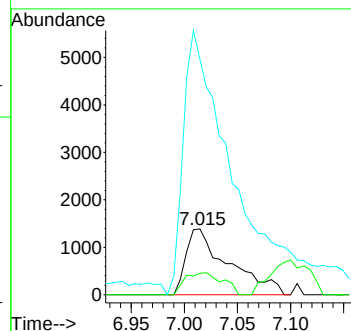
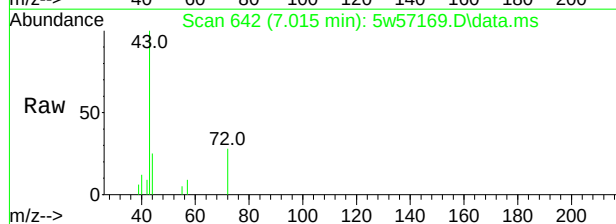
Tgt Ion: 57 Resp: 11200
Ion Ratio Lower Upper
57 100
56 54.6 25.5 85.5
41 82.3 78.7 138.7





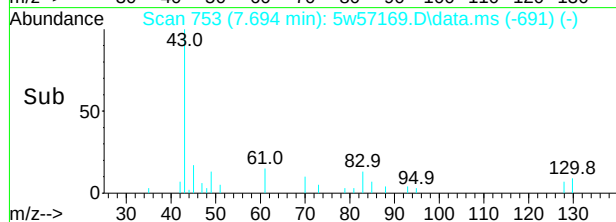
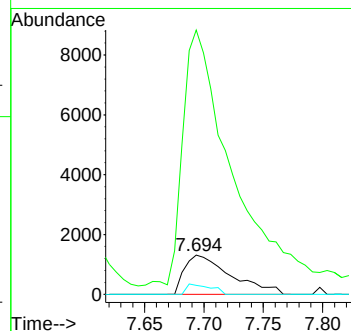
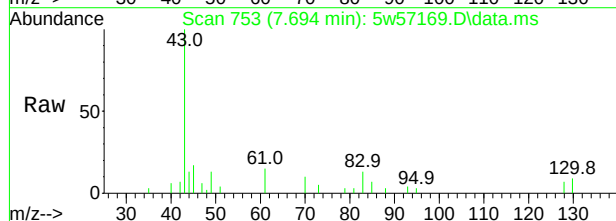
#41
METHYL ETHYL KETONE
Concen: 0.2520 PPBV
RT: 7.015 min Scan# 642
Delta R.T. 0.062 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

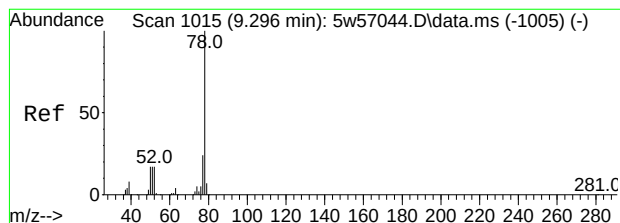
Tgt Ion: 72 Resp: 3876
Ion Ratio Lower Upper
72 100
57 32.5 3.9 63.9
43 358.2 401.3 461.3#



#44
ETHYL ACETATE
Concen: 0.3027 PPBV
RT: 7.694 min Scan# 753
Delta R.T. 0.050 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

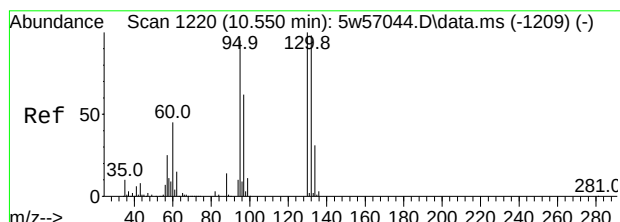
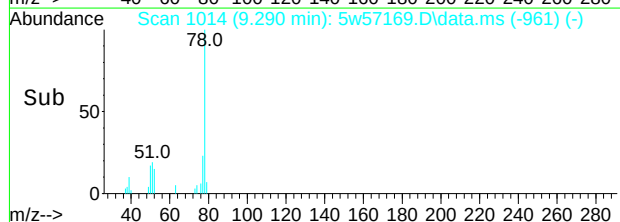
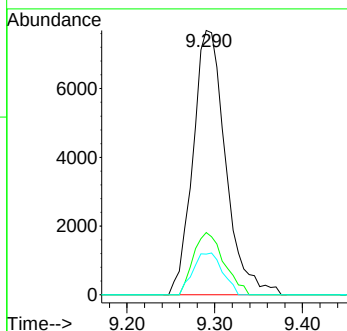
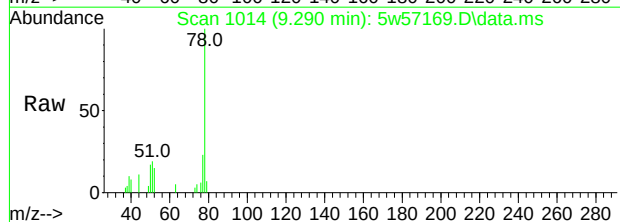
Tgt Ion: 61 Resp: 3584
Ion Ratio Lower Upper
61 100
43 761.4 0.0 30.0#
88 13.9 7.2 67.2





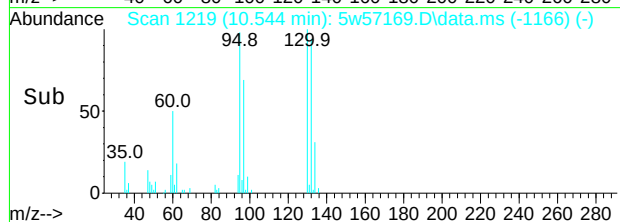
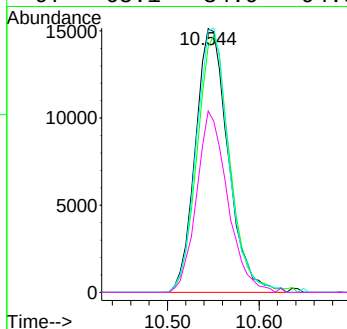
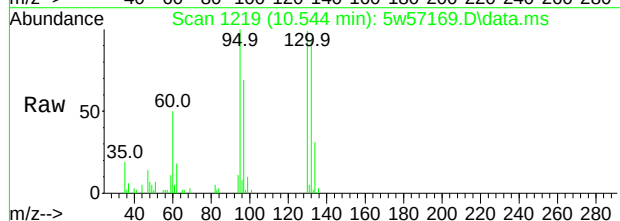
#52
BENZENE
Concen: 0.1588 PPBV
RT: 9.290 min Scan# 1014
Delta R.T. -0.006 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

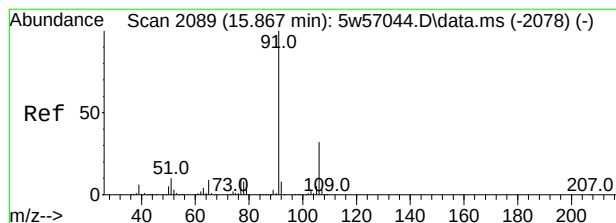
Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.1	0.0	53.7
52	14.3	0.0	46.4



#55
TRICHLOROETHYLENE
Concen: 0.5817 PPBV
RT: 10.544 min Scan# 1219
Delta R.T. -0.006 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

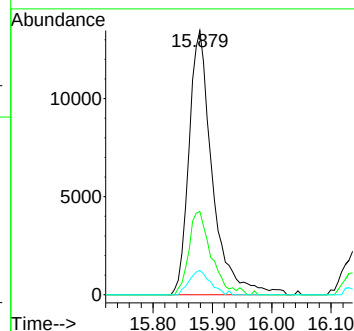
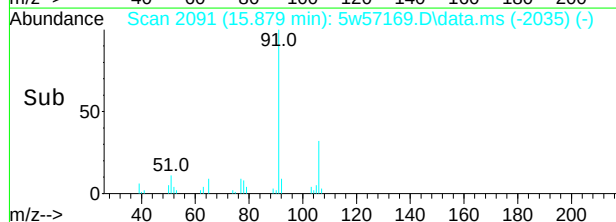
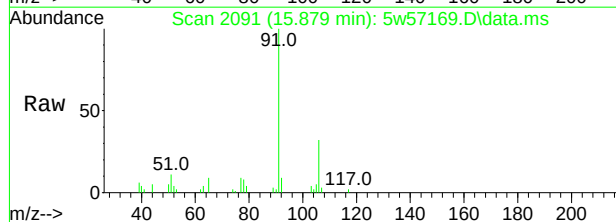
Tgt Ion	Ratio	Lower	Upper
95	100		
132	97.1	74.4	134.4
130	98.9	77.2	137.2
97	65.1	34.9	94.9





#79
ETHYLBENZENE
Concen: 0.1998 PPBV
RT: 15.879 min Scan# 2091
Delta R.T. 0.012 min
Lab File: 5w57169.D
Acq: 4 Mar 2025 10:09 am

Tgt Ion: 91 Resp: 37018
Ion Ratio Lower Upper
91 100
106 30.4 2.0 62.0
77 8.4 0.0 38.6



7.4.1

7

Quantitation Report (QT Reviewed)

Data Path : G:\Dayton\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\
Data File : 5w57181.D
Acq On : 5 Mar 2025 12:11 am
Operator : thomash
Sample : je5976-3dup
Misc : MS89870,V5W2194,400,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 05 18:19:20 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 08:50:47 2025
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	7.553	128	356468	10.00	PPBV	-0.02
51) 1,4-DIFLUOROBENZENE	9.725	114	1677790	10.00	PPBV	-0.01
70) CHLOROBENZENE-D5	15.249	82	795600	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.553	128	356468	10.00	PPBV	-0.02

System Monitoring Compounds
85) 4-BROMOFLUOROBENZENE 17.494 95 1076903 10.50 PPBV 0.00
Spiked Amount 10.000 Range 65 - 128 Recovery = 105.00%

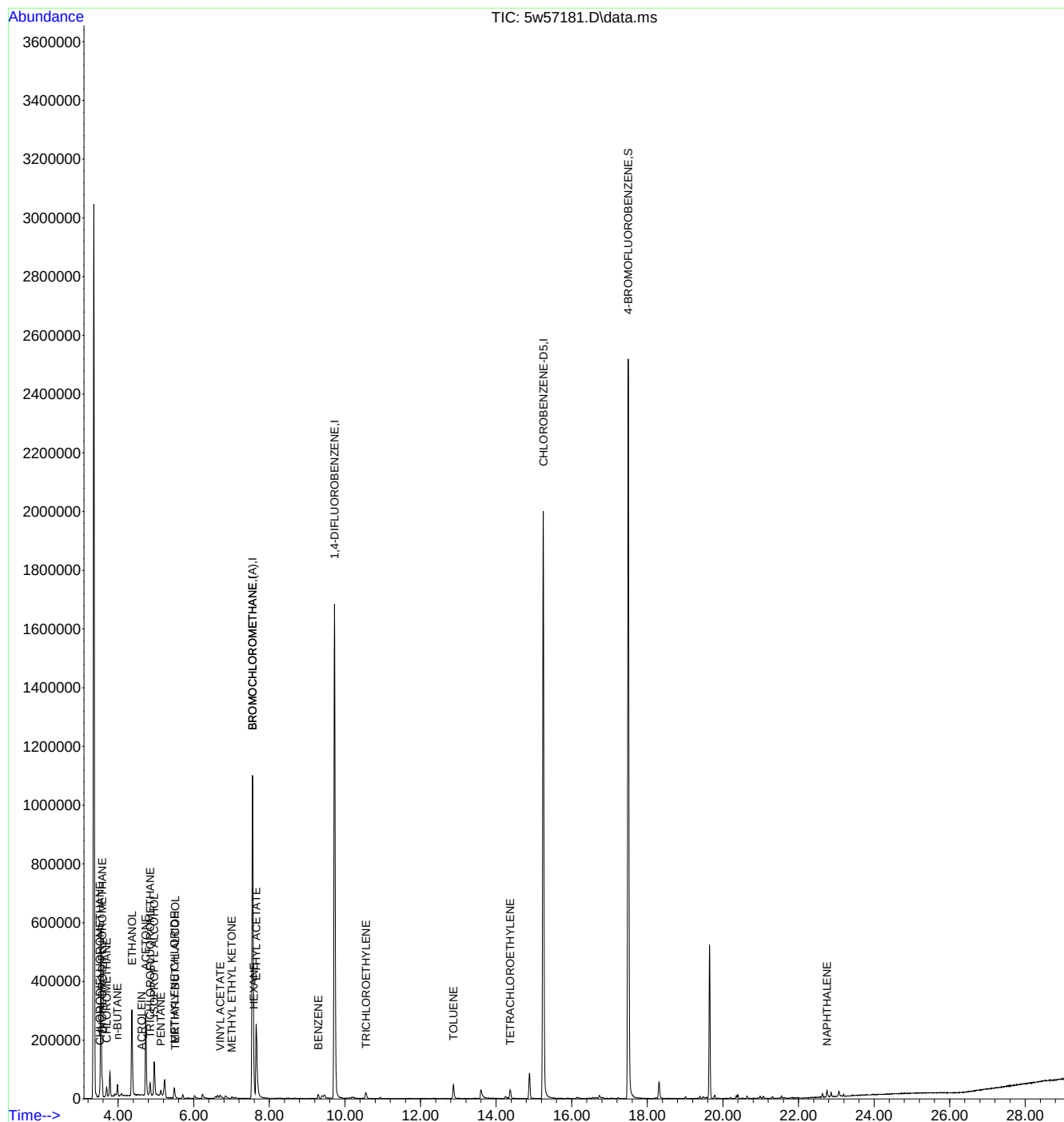
Target Compounds						Qvalue
4) CHLORODIFLUOROMETHANE	3.503	67	2769	0.22	PPBV	92
6) DICHLORODIFLUOROMETHANE	3.582	85	52515	0.47	PPBV	100
10) CHLOROMETHANE	3.693	52	10359	0.72	PPBV	95
13) n-BUTANE	3.980	43	33305	0.71	PPBV	87
18) ACROLEIN	4.622	56	4562	0.30	PPBV	76
21) TRICHLOROFLUOROMETHANE	4.843	101	36014	0.33	PPBV	100
22) ISOPROPYL ALCOHOL	4.959	45	163836	2.24	PPBV	95
23) ACETONE	4.733	58	126757	6.92	PPBV #	1
24) PENTANE	5.130	42	7601	0.23	PPBV	88
28) ETHANOL	4.366	45	379142	20.82	PPBV	99
31) METHYLENE CHLORIDE	5.485	84	14729	0.43	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.516	59	6692	0.09	PPBV #	74
38) HEXANE	7.596	57	13248	0.22	PPBV #	77
39) VINYL ACETATE	6.709	86	1865	0.30	PPBV #	67
41) METHYL ETHYL KETONE	7.008	72	2625m	0.18	PPBV	
44) ETHYL ACETATE	7.651	61	59458	5.41	PPBV #	74
52) BENZENE	9.290	78	16378	0.14	PPBV	97
55) TRICHLOROETHYLENE	10.557	95	7720	0.13	PPBV	89
66) TOLUENE	12.869	92	28481	0.33	PPBV	94
73) TETRACHLOROETHYLENE	14.374	164	8996	0.14	PPBV	98
108) NAPHTHALENE	22.755	128	26668	0.11	PPBV	94

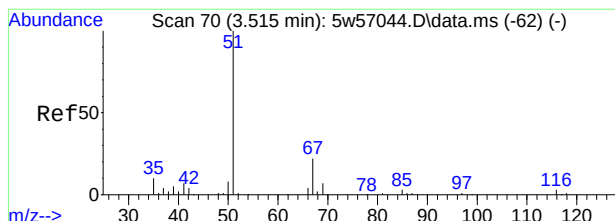
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Dayton\MSAIR\Done\2025\3. March\05-Mar 2025\V5W2194\
Data File : 5w57181.D
Acq On : 5 Mar 2025 12:11 am
Operator : thomash
Sample : je5976-3dup
Misc : MS89870,V5W2194,400,,,1
ALS Vial : 3 Sample Multiplier: 1

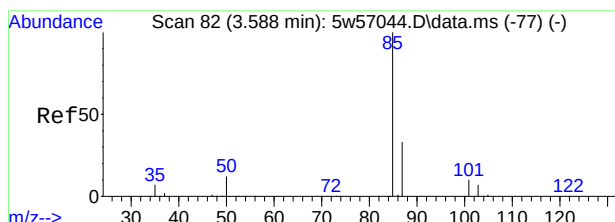
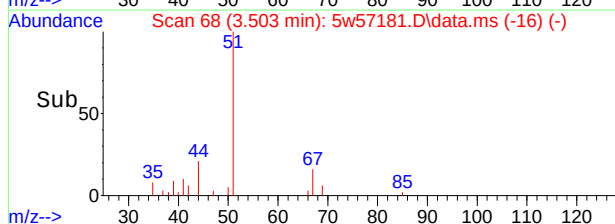
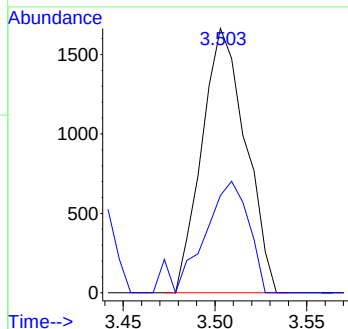
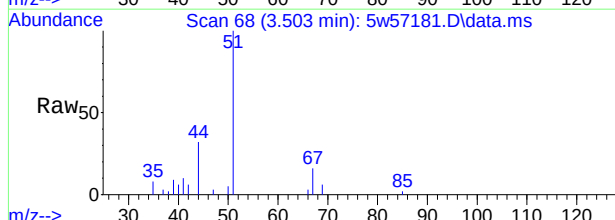
Quant Time: Mar 05 18:19:20 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 08:50:47 2025
Response via : Initial Calibration





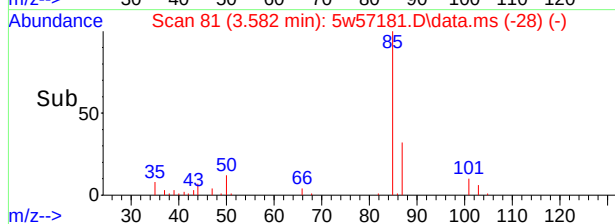
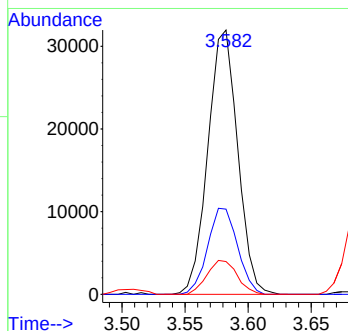
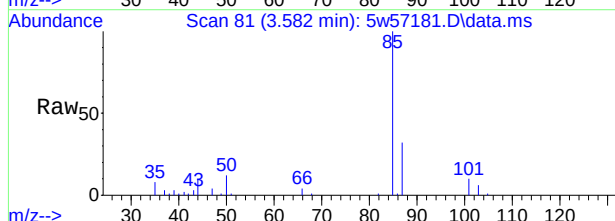
#4
CHLORODIFLUOROMETHANE
Concen: 0.22 PPBV
RT: 3.503 min Scan# 68
Delta R.T. -0.012 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

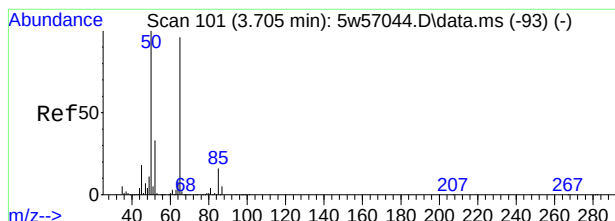
Tgt Ion: 67 Resp: 2769
Ion Ratio Lower Upper
67 100
69 36.8 2.3 62.3



#6
DICHLORODIFLUOROMETHANE
Concen: 0.47 PPBV
RT: 3.582 min Scan# 81
Delta R.T. -0.006 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

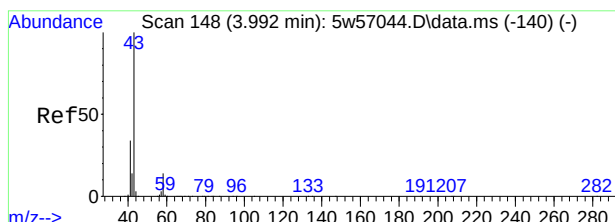
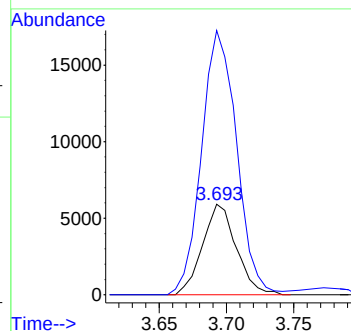
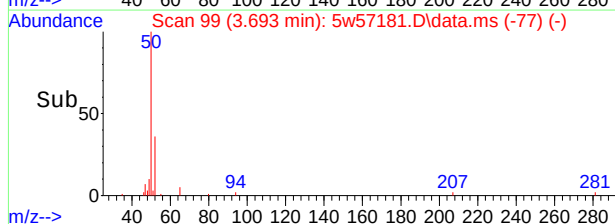
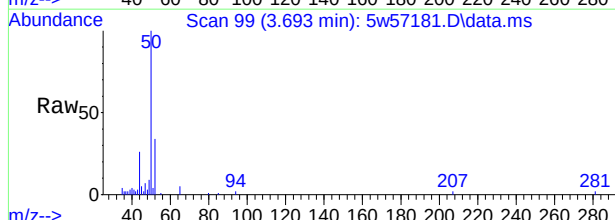
Tgt Ion: 85 Resp: 52515
Ion Ratio Lower Upper
85 100
87 32.7 2.7 62.7
50 13.0 0.0 42.6





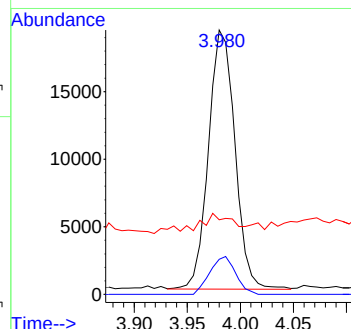
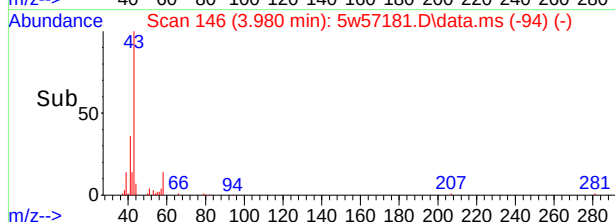
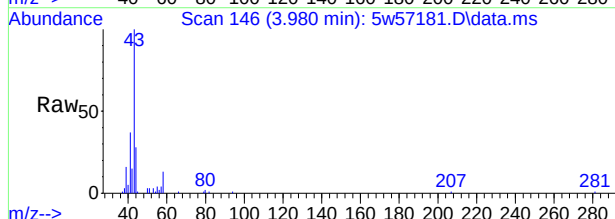
#10
CHLOROMETHANE
Concen: 0.72 PPBV
RT: 3.693 min Scan# 99
Delta R.T. -0.012 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

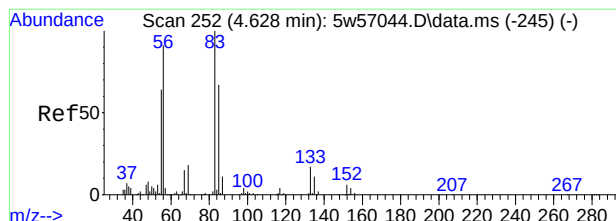
Tgt Ion: 52 Resp: 10359
Ion Ratio Lower Upper
52 100
50 289.6 269.7 329.7



#13
n-BUTANE
Concen: 0.71 PPBV
RT: 3.980 min Scan# 146
Delta R.T. -0.012 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

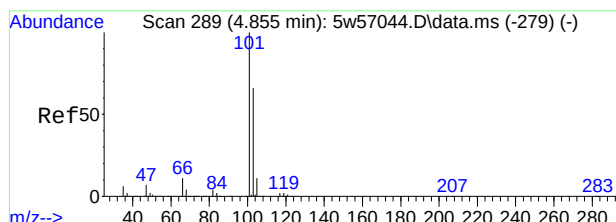
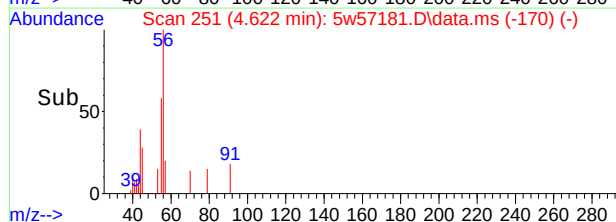
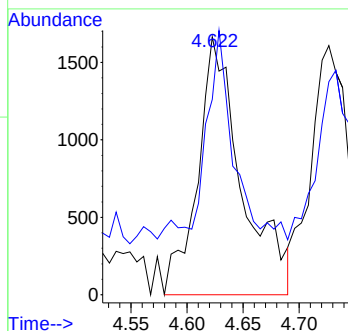
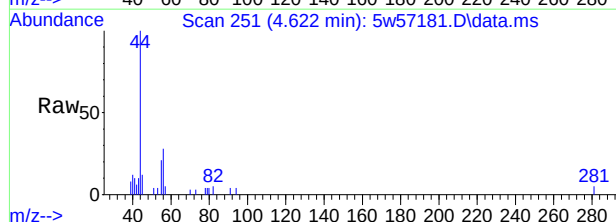
Tgt Ion: 43 Resp: 33305
Ion Ratio Lower Upper
43 100
58 14.2 0.0 43.8
44 20.3 0.0 35.5





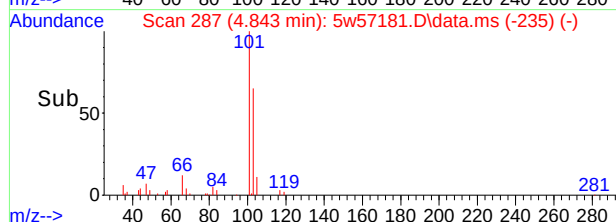
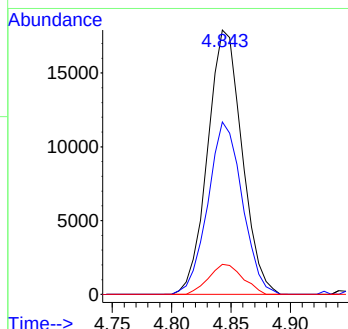
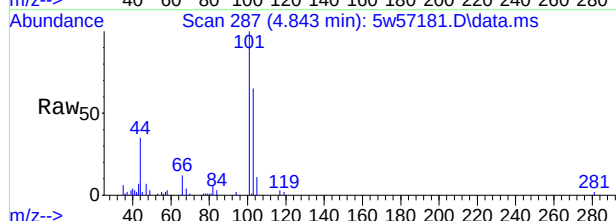
#18
ACROLEIN
Concen: 0.30 PPBV
RT: 4.622 min Scan# 251
Delta R.T. -0.006 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

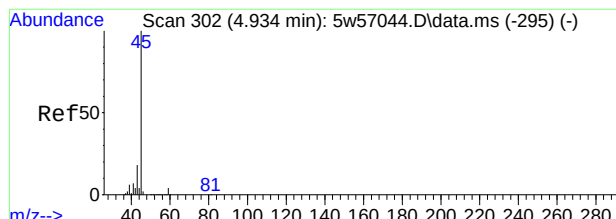
Tgt Ion: 56 Resp: 4562
Ion Ratio Lower Upper
56 100
55 48.0 46.8 86.8



#21
TRICHLOROFLUOROMETHANE
Concen: 0.33 PPBV
RT: 4.843 min Scan# 287
Delta R.T. -0.012 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

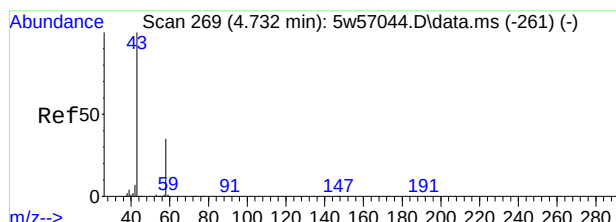
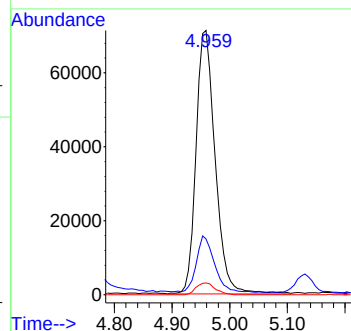
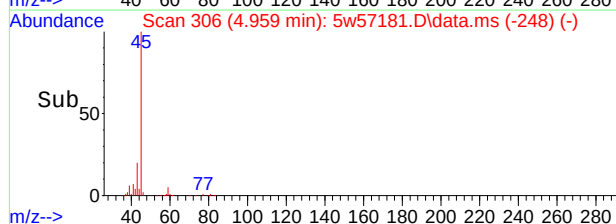
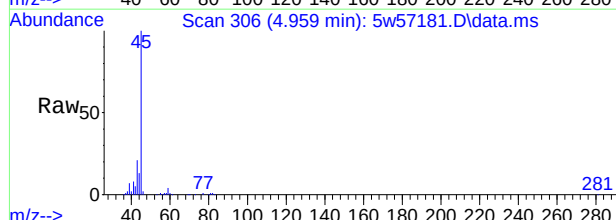
Tgt Ion: 101 Resp: 36014
Ion Ratio Lower Upper
101 100
103 65.2 35.5 95.5
105 11.2 0.0 40.8





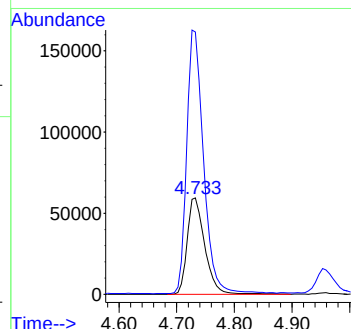
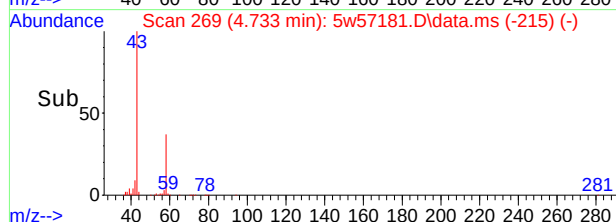
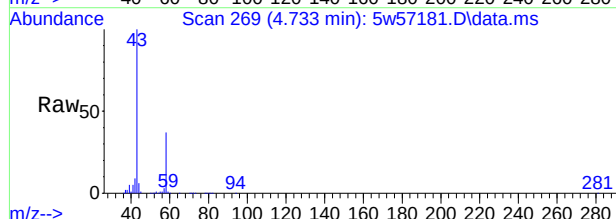
#22
ISOPROPYL ALCOHOL
Concen: 2.24 PPBV
RT: 4.959 min Scan# 306
Delta R.T. 0.025 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

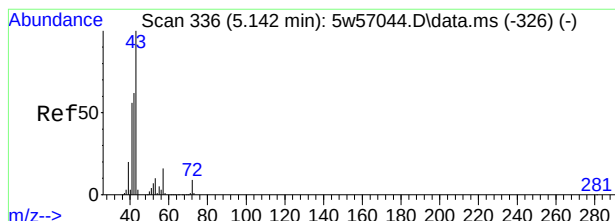
Tgt	Ion	Ratio	Lower	Upper
163836	45	100		
	43	21.1	0.0	48.5
	59	4.5	0.0	34.2



#23
ACETONE
Concen: 6.92 PPBV
RT: 4.733 min Scan# 269
Delta R.T. 0.001 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

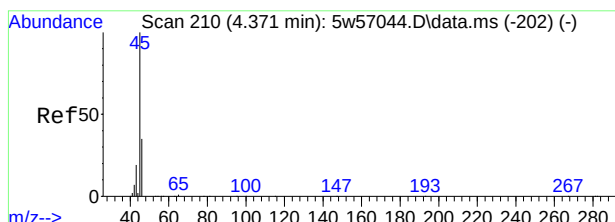
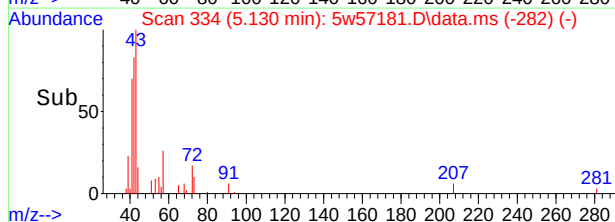
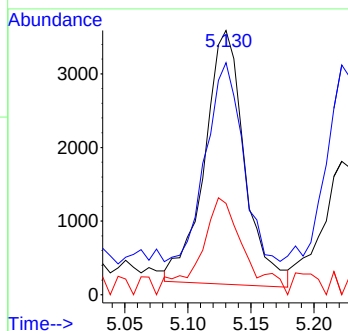
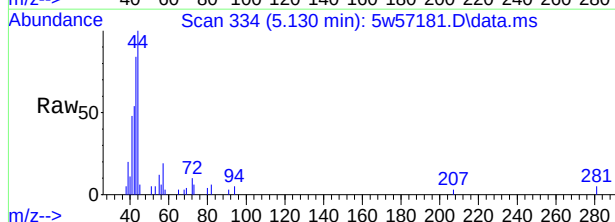
Tgt	Ion	Ratio	Lower	Upper
126757	58	100		
	43	261.1	0.0	32.7#





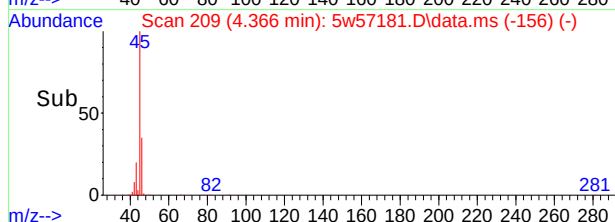
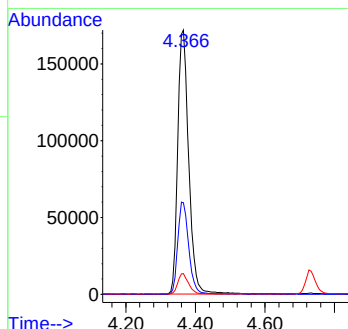
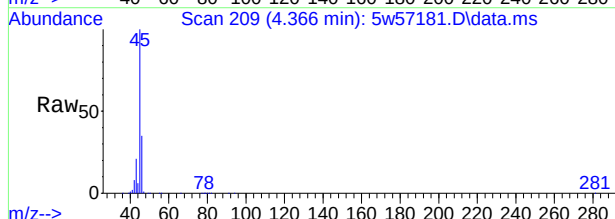
#24
PENTANE
Concen: 0.23 PPBV
RT: 5.130 min Scan# 334
Delta R.T. -0.012 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

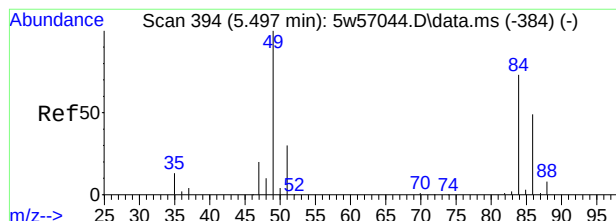
Tgt Ion: 42 Resp: 7601
Ion Ratio Lower Upper
42 100
41 85.4 62.9 122.9
57 41.9 0.0 57.4



#28
ETHANOL
Concen: 20.82 PPBV
RT: 4.366 min Scan# 209
Delta R.T. -0.005 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

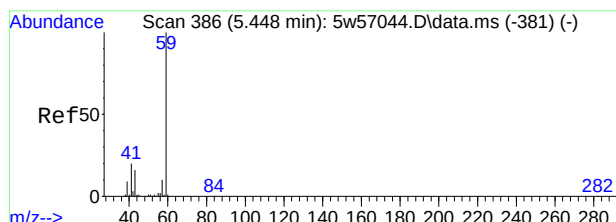
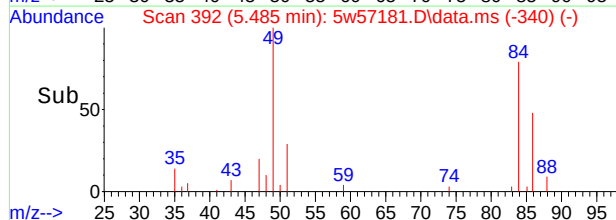
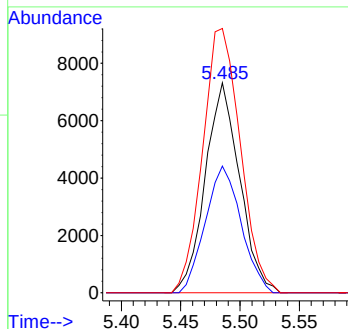
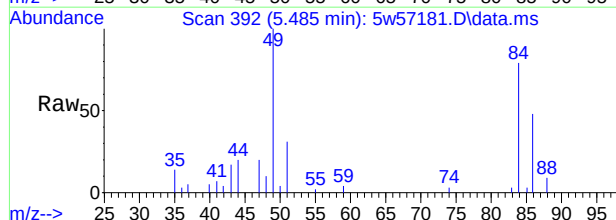
Tgt Ion: 45 Resp: 379142
Ion Ratio Lower Upper
45 100
46 35.1 5.4 65.4
42 8.1 0.0 37.7





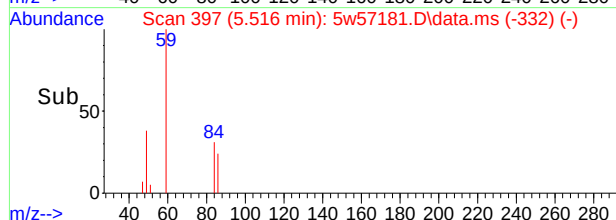
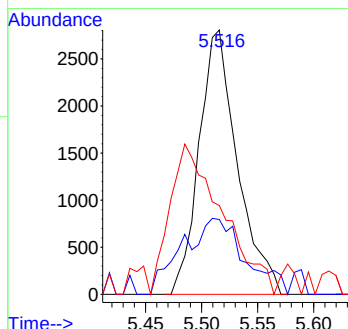
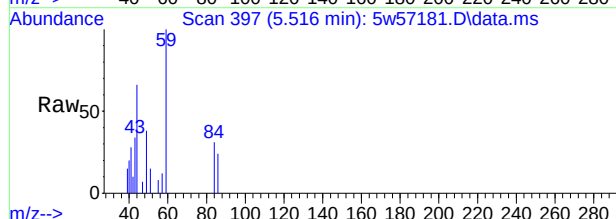
#31
METHYLENE CHLORIDE
Concen: 0.43 PPBV
RT: 5.485 min Scan# 392
Delta R.T. -0.012 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

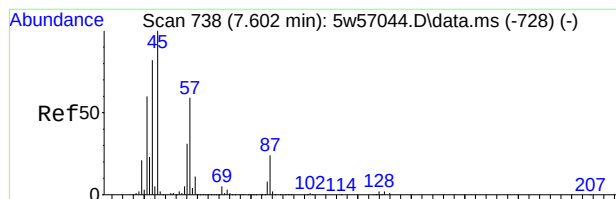
Tgt Ion: 84 Resp: 14729
Ion Ratio Lower Upper
84 100
86 62.7 36.1 96.1
49 137.9 106.2 166.2



#35
TERTIARY BUTYL ALCOHOL
Concen: 0.09 PPBV
RT: 5.516 min Scan# 397
Delta R.T. 0.068 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

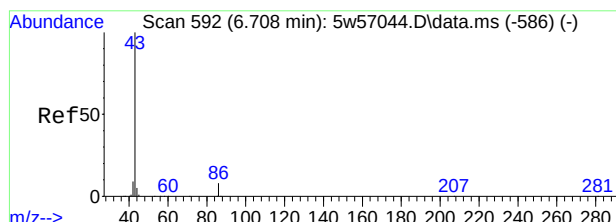
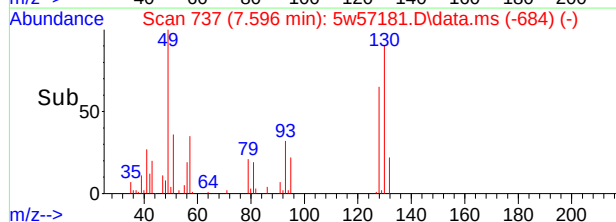
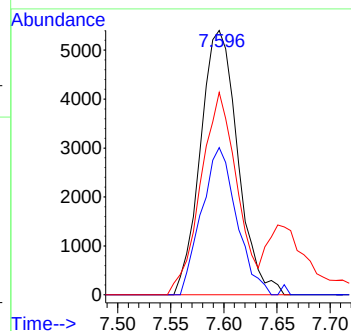
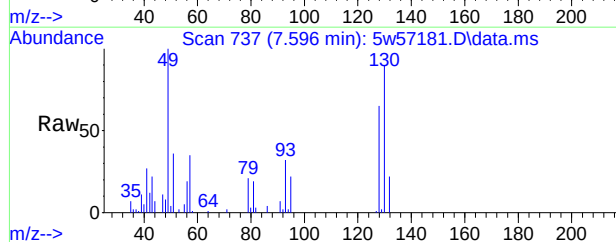
Tgt Ion: 59 Resp: 6692
Ion Ratio Lower Upper
59 100
41 30.8 0.0 51.8
43 0.0 0.0 45.4





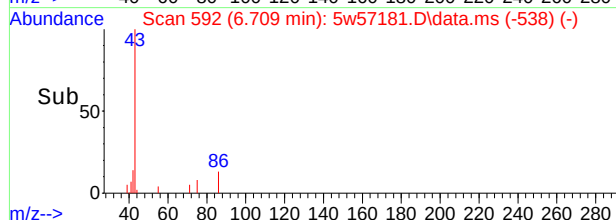
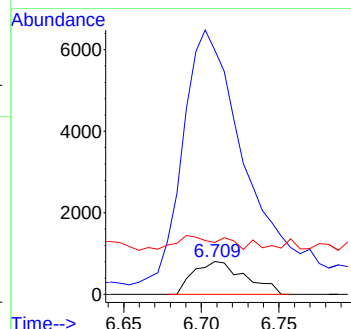
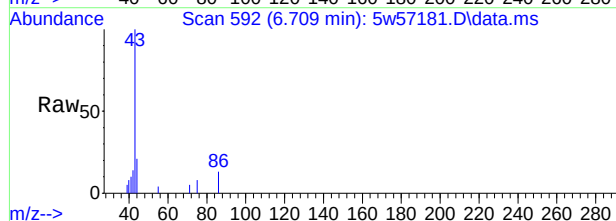
#38
HEXANE
Concen: 0.22 PPBV
RT: 7.596 min Scan# 737
Delta R.T. -0.006 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

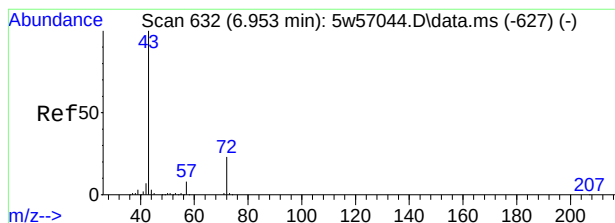
Tgt Ion: 57 Resp: 13248
Ion Ratio Lower Upper
57 100
56 52.2 25.5 85.5
41 74.2 78.7 138.7#



#39
VINYL ACETATE
Concen: 0.30 PPBV
RT: 6.709 min Scan# 592
Delta R.T. 0.001 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

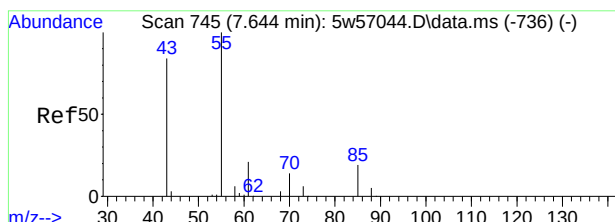
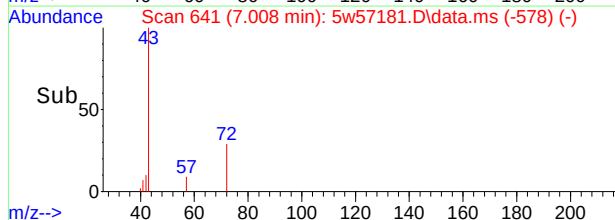
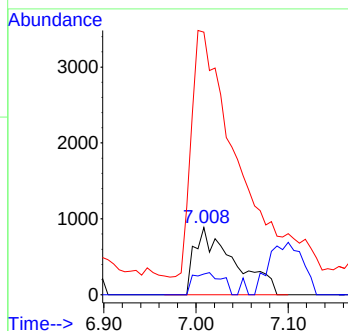
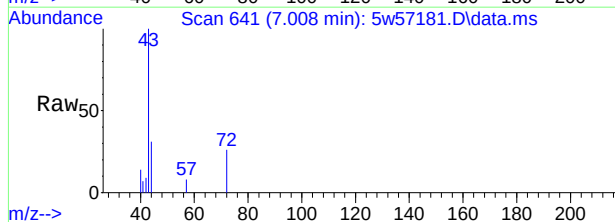
Tgt Ion: 86 Resp: 1865
Ion Ratio Lower Upper
86 100
43 1055.9 1200.5 1260.5#
44 49.5 31.2 91.2





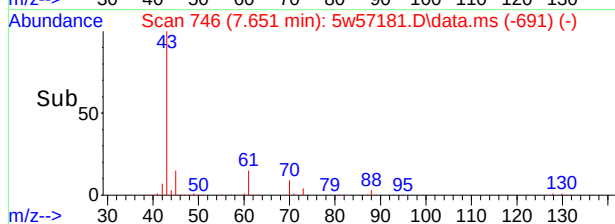
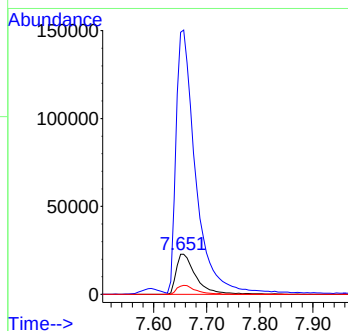
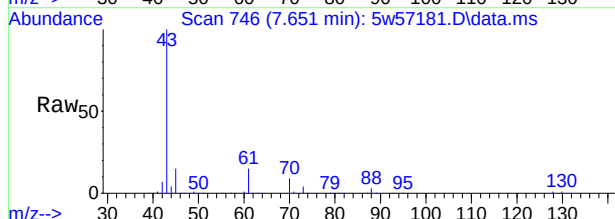
#41
METHYL ETHYL KETONE
Concen: 0.18 PPBV m
RT: 7.008 min Scan# 641
Delta R.T. 0.055 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

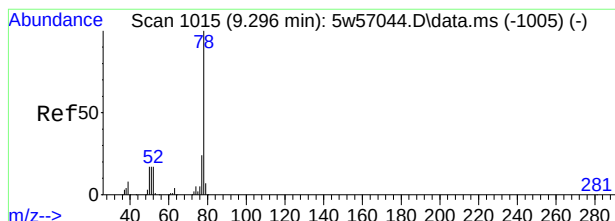
Tgt Ion: 72 Resp: 2625
Ion Ratio Lower Upper
72 100
57 30.8 3.9 63.9
43 391.1 401.3 461.3#



#44
ETHYL ACETATE
Concen: 5.41 PPBV
RT: 7.651 min Scan# 746
Delta R.T. 0.007 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

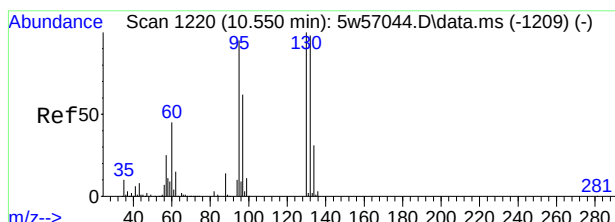
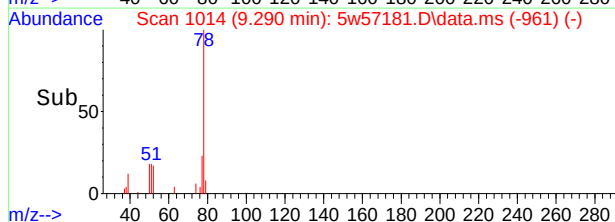
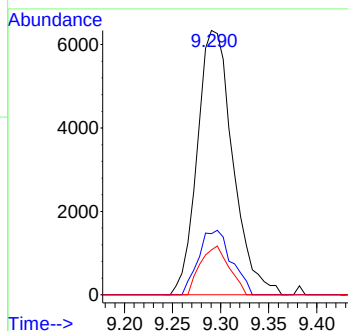
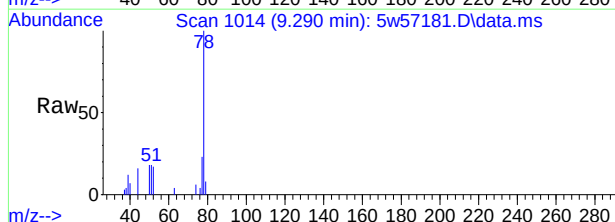
Tgt Ion: 61 Resp: 59458
Ion Ratio Lower Upper
61 100
43 652.3 0.0 30.0#
88 21.7 7.2 67.2





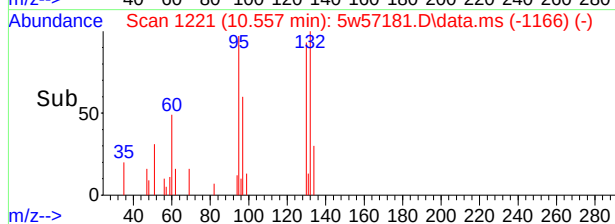
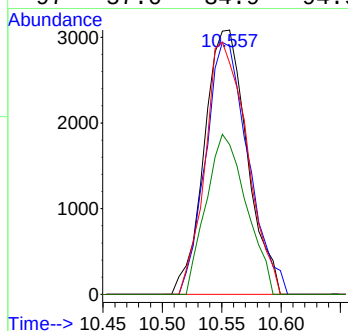
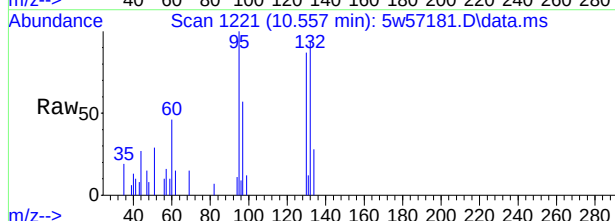
#52
BENZENE
Concen: 0.14 PPBV
RT: 9.290 min Scan# 1014
Delta R.T. -0.006 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

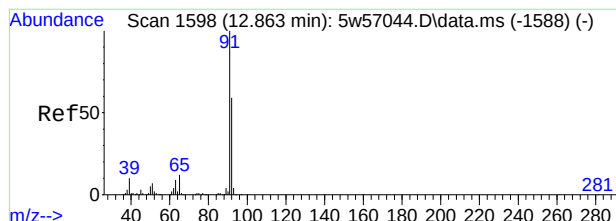
Tgt Ion: 78 Resp: 16378
Ion Ratio Lower Upper
78 100
77 22.7 0.0 53.7
52 15.0 0.0 46.4



#55
TRICHLOROETHYLENE
Concen: 0.13 PPBV
RT: 10.557 min Scan# 1221
Delta R.T. 0.007 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

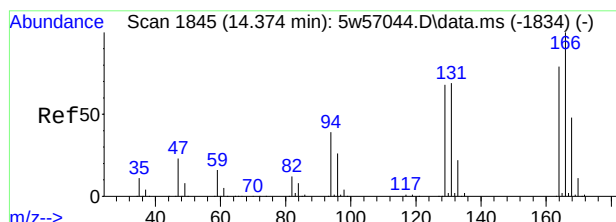
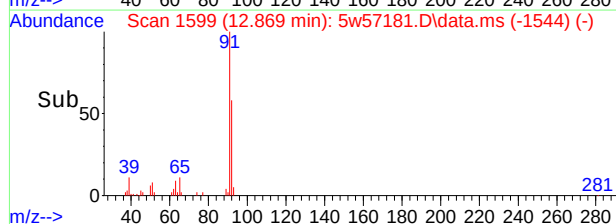
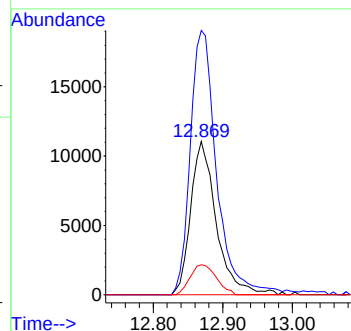
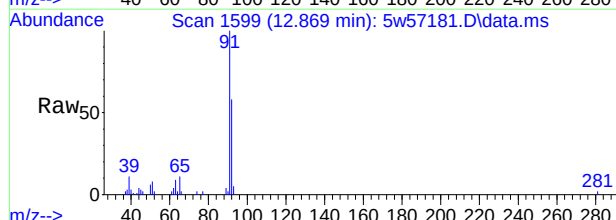
Tgt Ion: 95 Resp: 7720
Ion Ratio Lower Upper
95 100
132 94.9 74.4 134.4
130 93.6 77.2 137.2
97 57.0 34.9 94.9





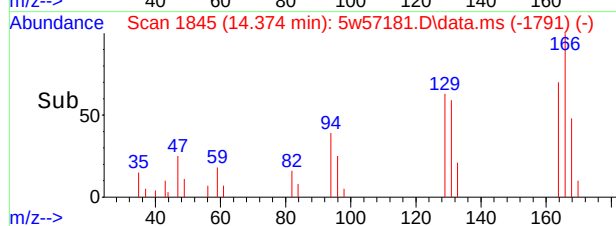
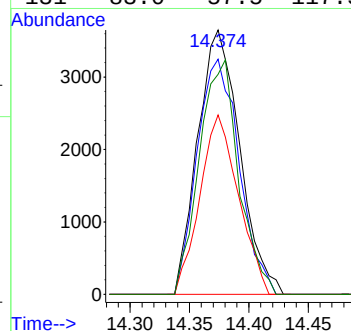
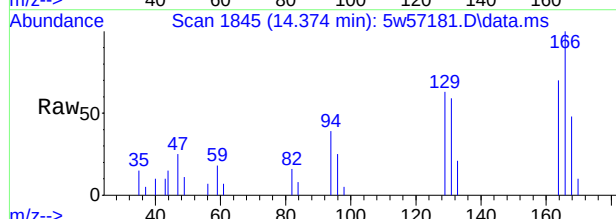
#66
TOLUENE
Concen: 0.33 PPBV
RT: 12.869 min Scan# 1599
Delta R.T. 0.006 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

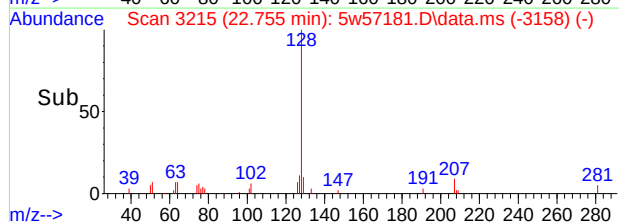
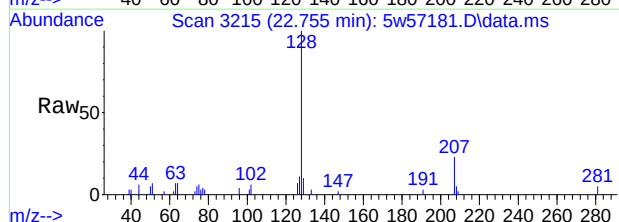
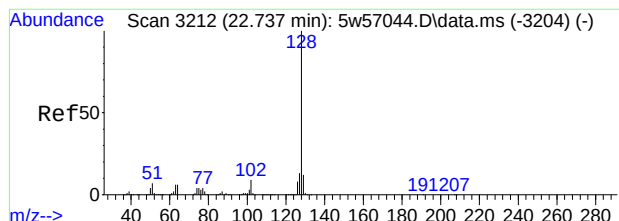
Tgt Ion: 92 Resp: 28481
Ion Ratio Lower Upper
92 100
91 179.3 140.2 200.2
65 20.0 0.0 52.3



#73
TETRACHLOROETHYLENE
Concen: 0.14 PPBV
RT: 14.374 min Scan# 1845
Delta R.T. 0.000 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

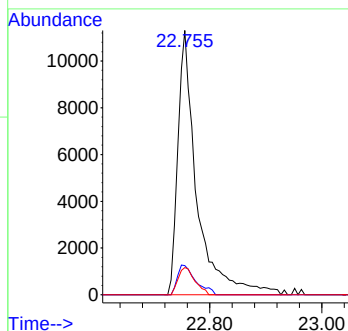
Tgt Ion: 164 Resp: 8996
Ion Ratio Lower Upper
164 100
129 88.8 58.7 118.7
168 62.2 31.6 91.6
131 83.0 57.5 117.5





#108
NAPHTHALENE
Concen: 0.11 PPBV
RT: 22.755 min Scan# 3215
Delta R.T. 0.018 min
Lab File: 5w57181.D
Acq: 5 Mar 2025 12:11 am

Tgt Ion	128	127	129
Ion	128	127	129
Ratio	100	10.7	9.0
Lower		0.0	0.0
Upper		43.0	41.4



Manual Integration Approval Summary

Sample Number:

JE5976-3DUP

Method:

TO-15

Lab FileID:

5W57181.D

Analyst approved:

03/05/25 18:33 Kanya Veerawat

Injection Time:

03/05/25 00:11

Supervisor approved:

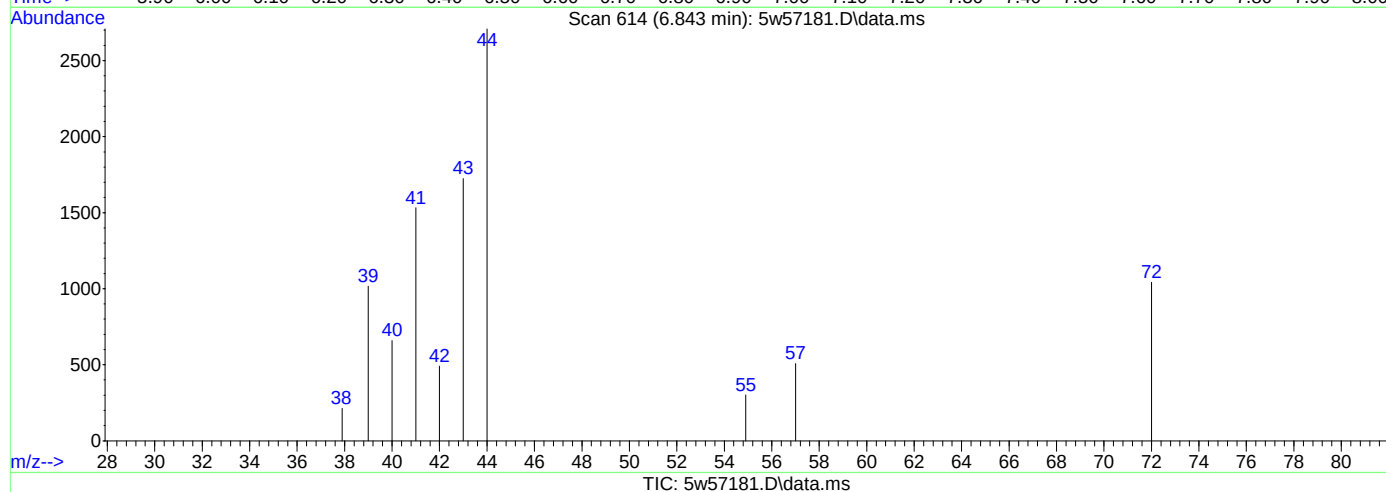
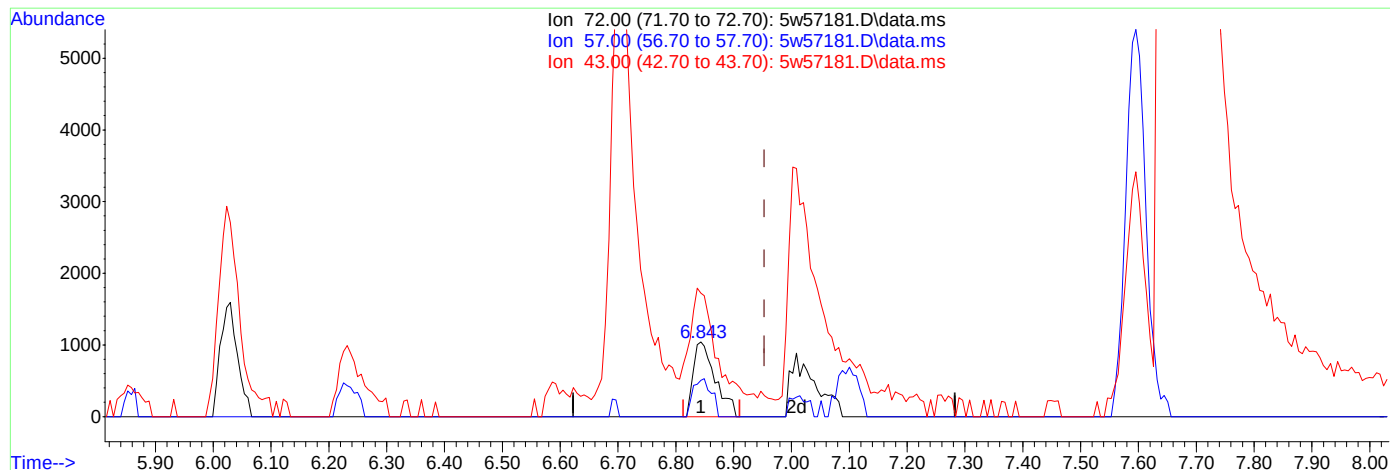
03/05/25 18:34 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl ethyl ketone	78-93-3		7.01	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\kanyav\V5W\
Data File : 5w57181.D
Acq On : 5 Mar 2025 12:11 am
Operator : thomash
Sample : je5976-3dup
Misc : MS89870,V5W2194,400,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 05 18:13:00 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 08:50:47 2025
Response via : Initial Calibration



(41) METHYL ETHYL KETONE

6.843min (-0.110) 0.19PPBV

response 2741

Ion	Exp%	Act%
72.00	100	100
57.00	33.90	48.75
43.00	431.30	165.45#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : G:\Dayton\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13228.D
Acq On : 6 Mar 2025 6:42 pm
Operator : williamc
Sample : je5976-2dup
Misc : MS89870,v7w465,100,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 09 00:54:15 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE	3.232	128	132097	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.496	114	642936	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	589814	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.232	128	132097	10.00	PPBV	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) 4-BROMOFLUOROBENZENE	13.383	95	405096	9.47	PPBV	0.00

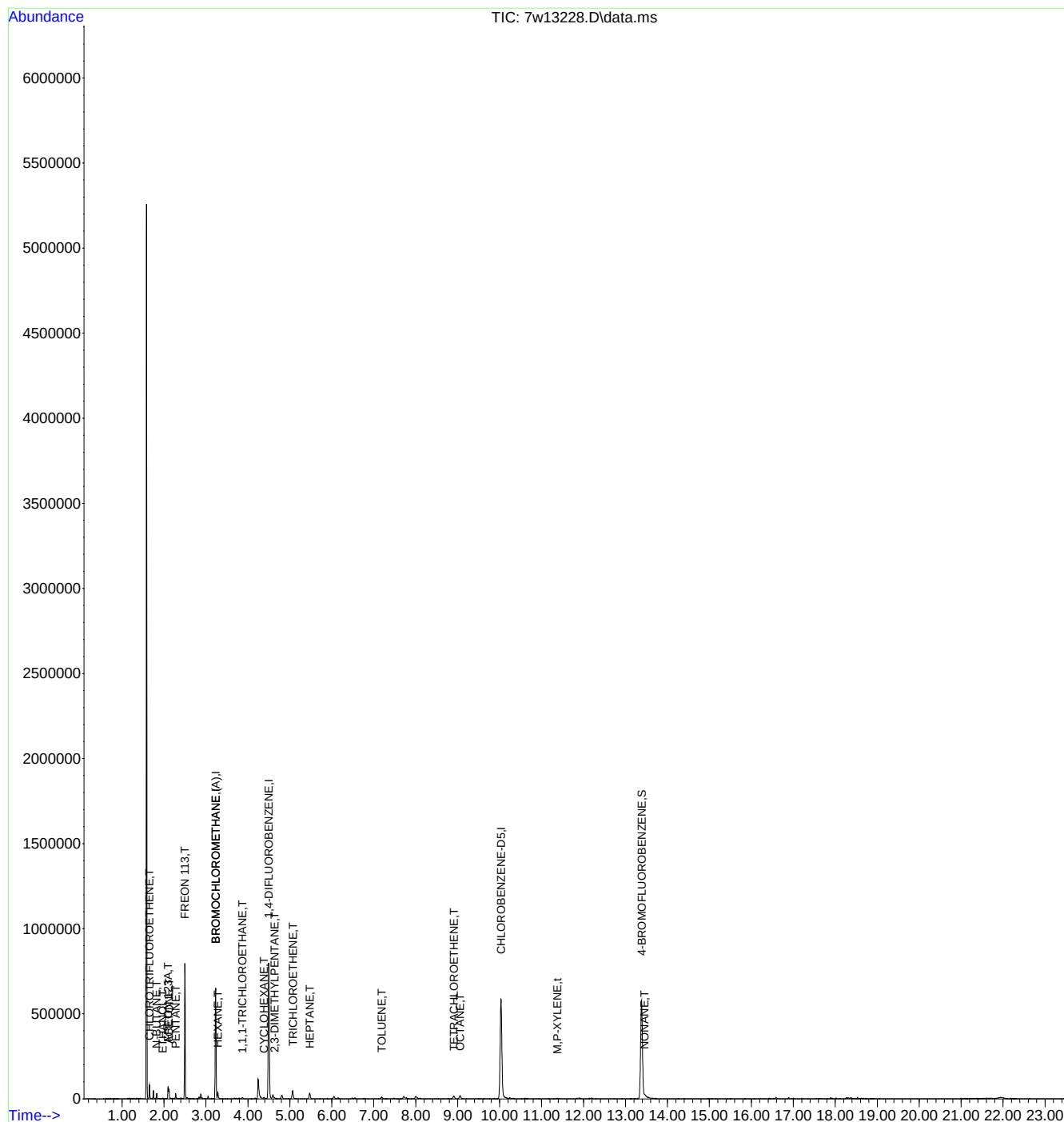
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) CHLOROTRIFLUOROETHENE	1.650	116	10566	0.69	PPBV #	17
13) N-BUTANE	1.827	43	13454	0.79	PPBV #	95
20) FREON 123A	2.100	117	13806	0.88	PPBV	91
23) ACETONE	2.116	58	7320	0.95	PPBV	99
24) PENTANE	2.277	42	6809	0.58	PPBV	93
28) ETHANOL	1.972	45	1711	0.26	PPBV	97
33) FREON 113	2.499	151	151384	8.73	PPBV	93
38) HEXANE	3.287	57	13952	0.64	PPBV #	70
48) 1,1,1-TRICHLOROETHANE	3.869	97	3561	0.14	PPBV	98
53) CYCLOHEXANE	4.383	84	1562	0.10	PPBV #	23
54) 2,3-DIMETHYLPENTANE	4.637	71	854	0.11	PPBV #	88
55) TRICHLOROETHENE	5.065	95	16311	1.00	PPBV	97
62) HEPTANE	5.473	43	15315	0.70	PPBV	97
66) TOLUENE	7.190	91	10478	0.23	PPBV	98
72) TETRACHLOROETHENE	8.910	164	6324	0.37	PPBV	95
75) OCTANE	9.058	43	11948	0.39	PPBV	95
80) M,P-XYLENE	11.376	91	4437	0.10	PPBV	82
83) NONANE	13.460	43	5337	0.17	PPBV	92

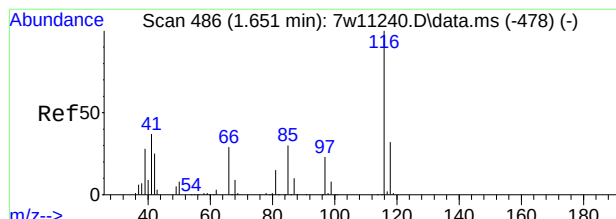
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : G:\Dayton\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13228.D
Acq On : 6 Mar 2025 6:42 pm
Operator : williamc
Sample : je5976-2dup
Misc : MS89870,v7w465,100,,,1
ALS Vial : 6 Sample Multiplier: 1

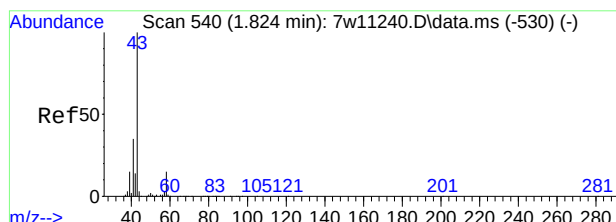
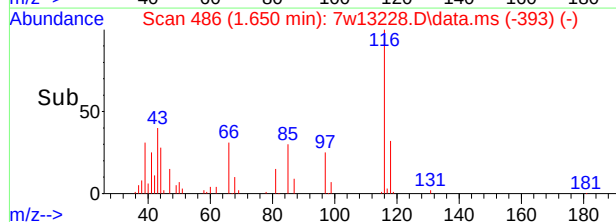
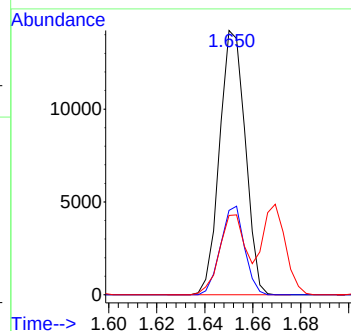
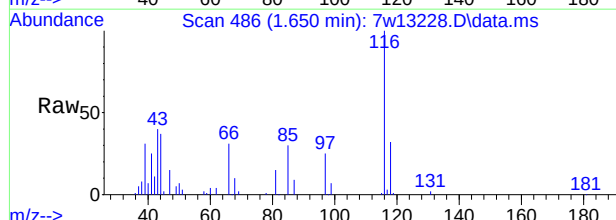
Quant Time: Mar 09 00:54:15 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration





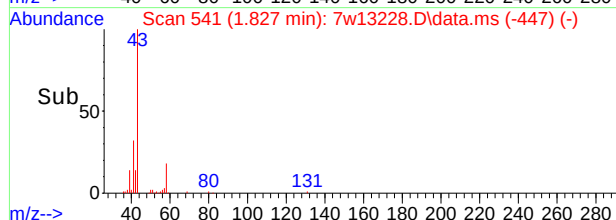
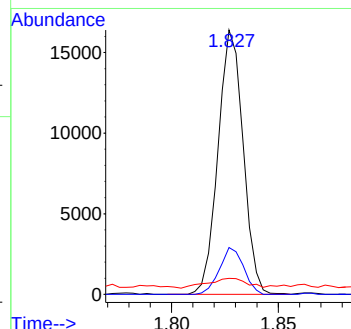
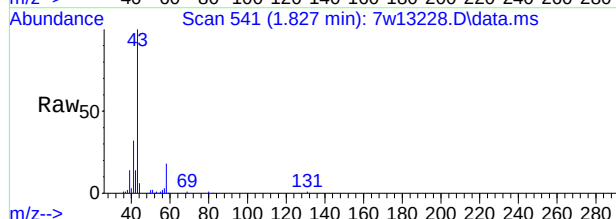
#5
CHLOROTRIFLUOROETHENE
Concen: 0.69 PPBV
RT: 1.650 min Scan# 486
Delta R.T. -0.001 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

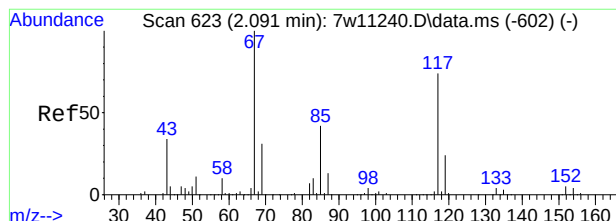
Tgt Ion:	116	Resp:	10566
Ion Ratio	Lower	Upper	
116	100		
118	31.1	22.7	42.1
85	62.3	149.4	277.4#



#13
N-BUTANE
Concen: 0.79 PPBV
RT: 1.827 min Scan# 541
Delta R.T. 0.003 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

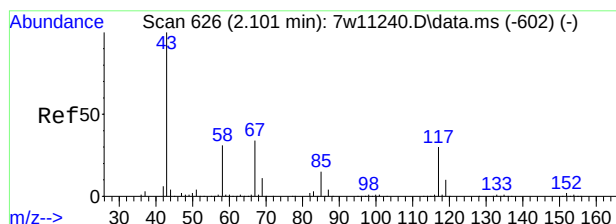
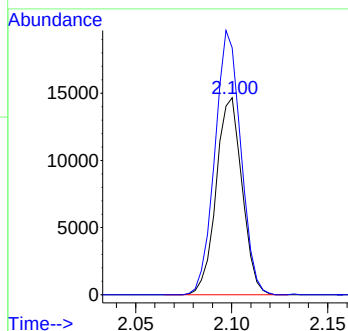
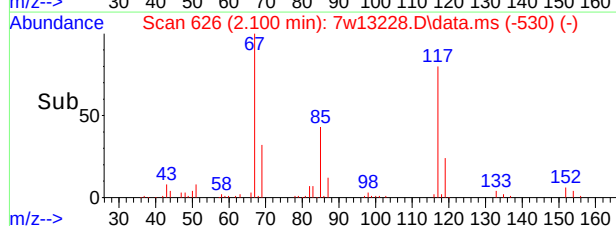
Tgt Ion:	43	Resp:	13454
Ion Ratio	Lower	Upper	
43	100		
58	17.0	10.4	19.2
44	5.7	3.0	5.6#





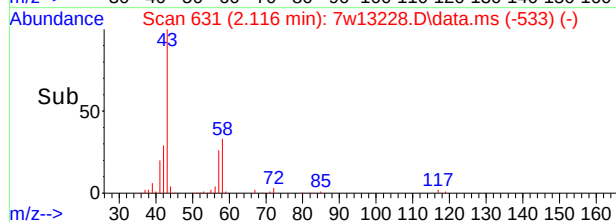
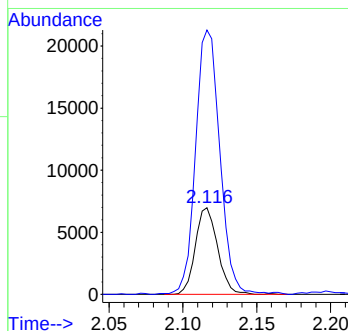
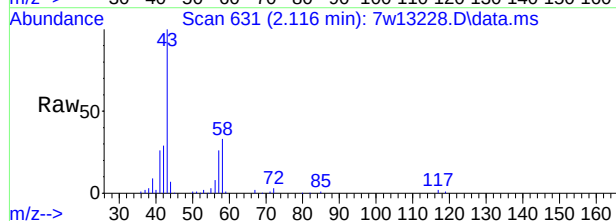
#20
FREON 123A
Concen: 0.88 PPBV
RT: 2.100 min Scan# 626
Delta R.T. 0.009 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

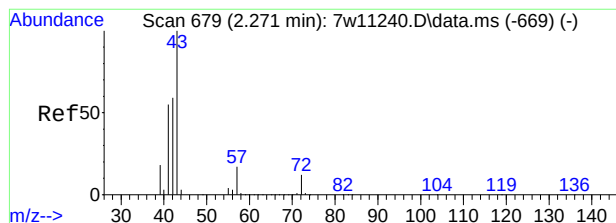
Tgt Ion: 117 Resp: 13806
Ion Ratio Lower Upper
117 100
67 134.1 102.0 189.4



#23
ACETONE
Concen: 0.95 PPBV
RT: 2.116 min Scan# 631
Delta R.T. 0.015 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

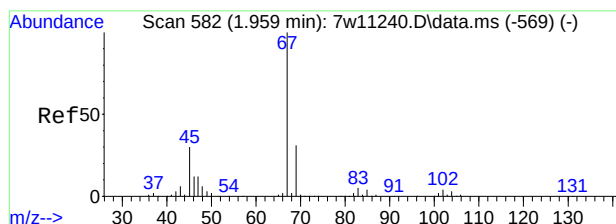
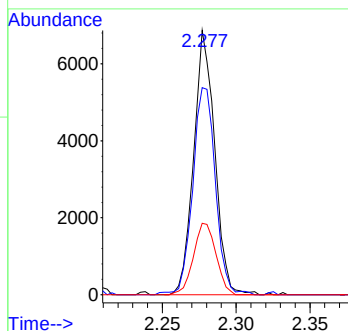
Tgt Ion: 58 Resp: 7320
Ion Ratio Lower Upper
58 100
43 333.1 234.4 435.2





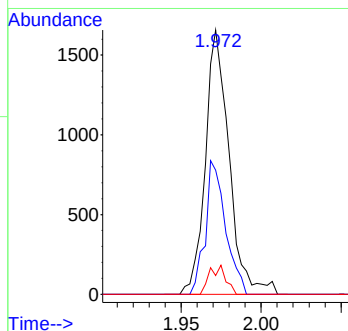
#24
PENTANE
Concen: 0.58 PPBV
RT: 2.277 min Scan# 681
Delta R.T. 0.006 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

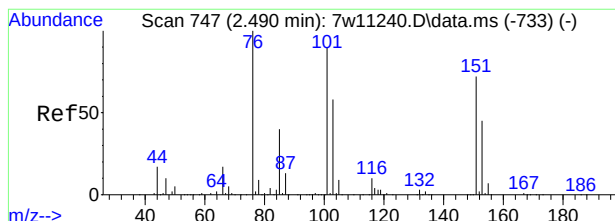
Tgt Ion	Ratio	Lower	Upper
42	100		
41	84.7	64.8	120.3
57	28.9	19.7	36.7



#28
ETHANOL
Concen: 0.26 PPBV
RT: 1.972 min Scan# 586
Delta R.T. 0.013 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

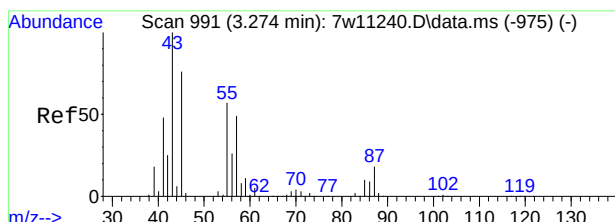
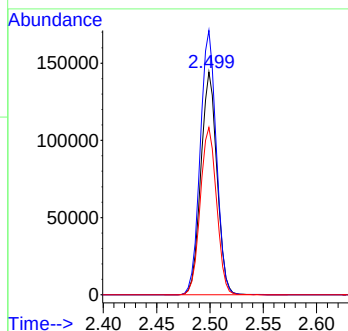
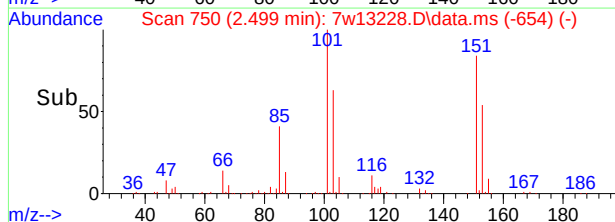
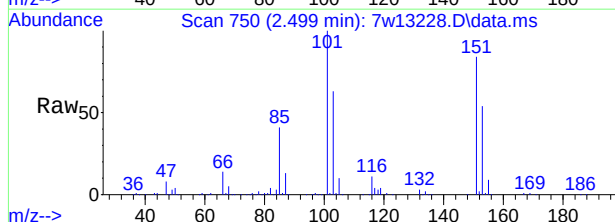
Tgt Ion	Ratio	Lower	Upper
45	100		
46	42.9	28.6	53.0
42	7.6	6.3	11.7





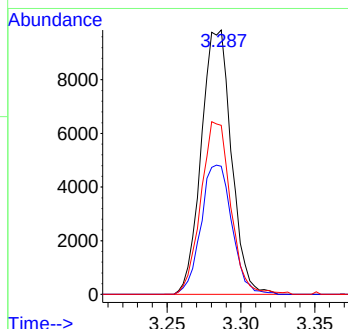
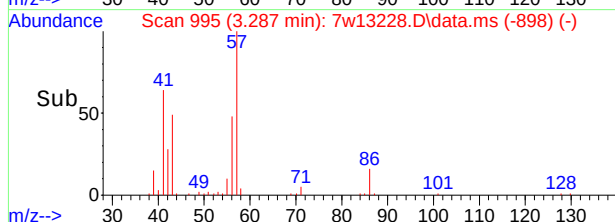
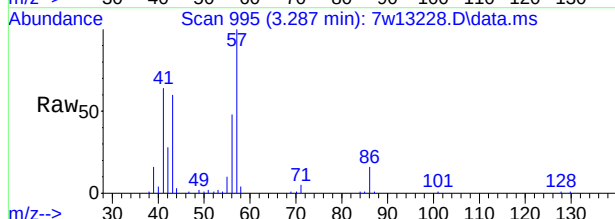
#33
FREON 113
Concen: 8.73 PPBV
RT: 2.499 min Scan# 750
Delta R.T. 0.009 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

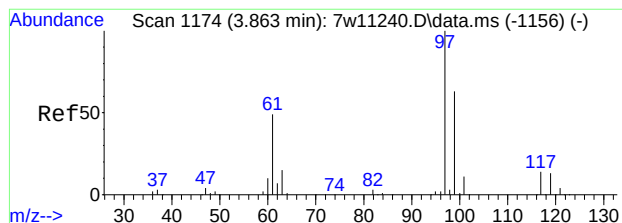
Tgt Ion	Ratio	Lower	Upper
151	100		
101	118.7	89.3	165.9
103	76.1	57.5	106.9



#38
HEXANE
Concen: 0.64 PPBV
RT: 3.287 min Scan# 995
Delta R.T. 0.013 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

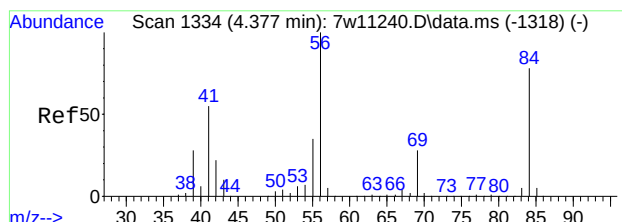
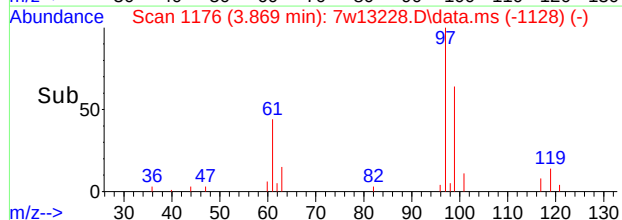
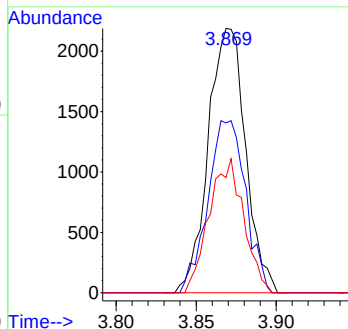
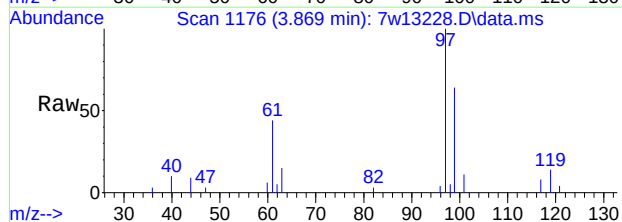
Tgt Ion	Ratio	Lower	Upper
57	100		
56	50.2	37.8	70.2
41	64.5	75.9	140.9#





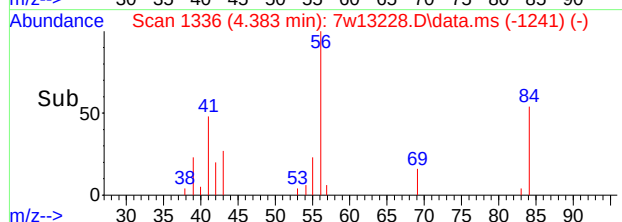
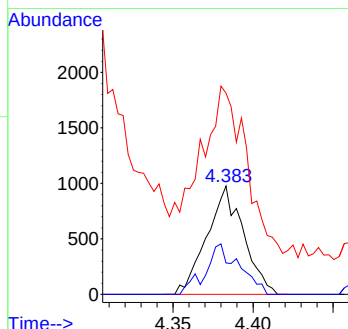
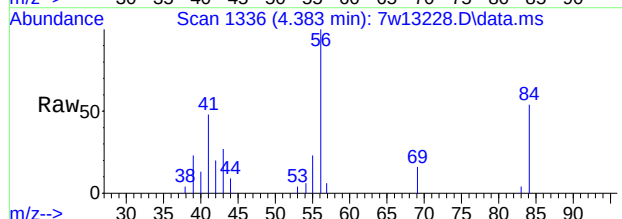
#48
1,1,1-TRICHLOROETHANE
Concen: 0.14 PPBV
RT: 3.869 min Scan# 1176
Delta R.T. 0.006 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

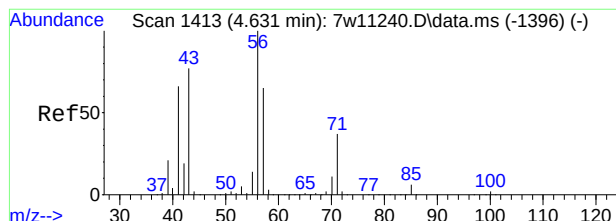
Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.0	45.1	83.9
61	46.9	34.2	63.6



#53
CYCLOHEXANE
Concen: 0.10 PPBV
RT: 4.383 min Scan# 1336
Delta R.T. 0.006 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

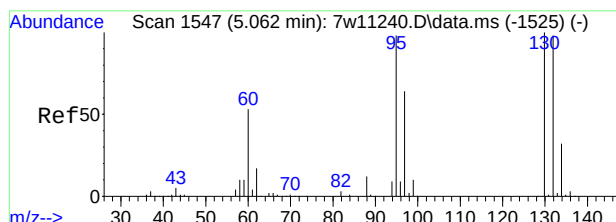
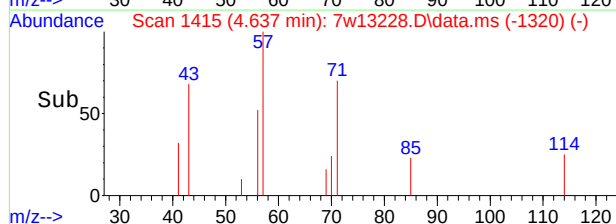
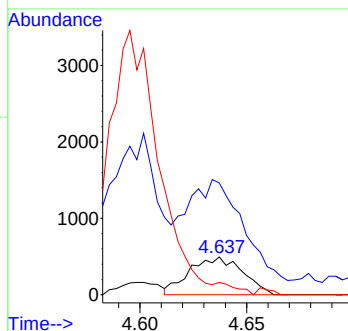
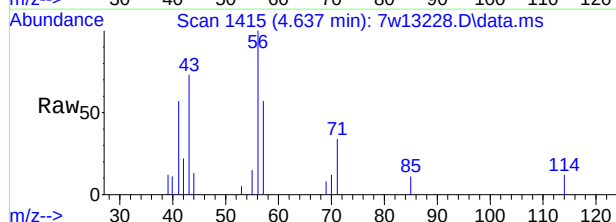
Tgt Ion	Ratio	Lower	Upper
84	100		
69	42.8	24.8	46.0
56	238.3	89.8	166.8#





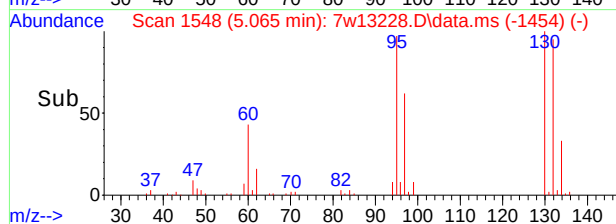
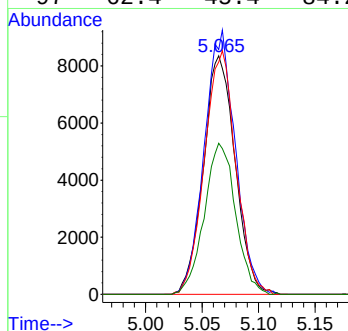
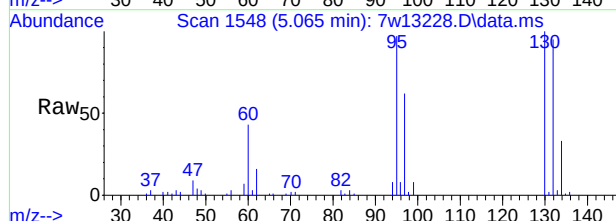
#54
2,3-DIMETHYLPENTANE
Concen: 0.11 PPBV
RT: 4.637 min Scan# 1415
Delta R.T. 0.006 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

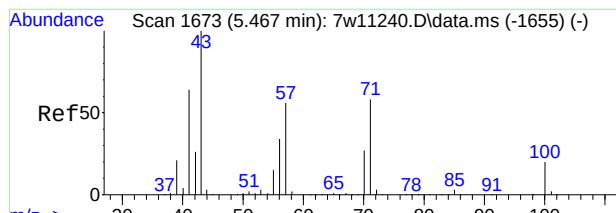
Tgt Ion:	71	Resp:	854
Ion	Ratio	Lower	Upper
71	100		
56	264.6	199.6	370.8
85	0.0	12.1	22.5#



#55
TRICHLOROETHENE
Concen: 1.00 PPBV
RT: 5.065 min Scan# 1548
Delta R.T. 0.003 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

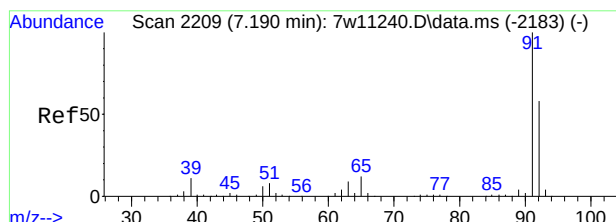
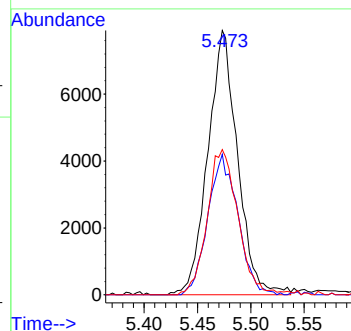
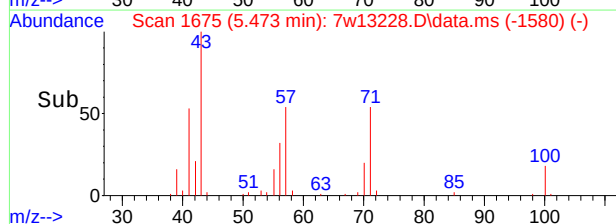
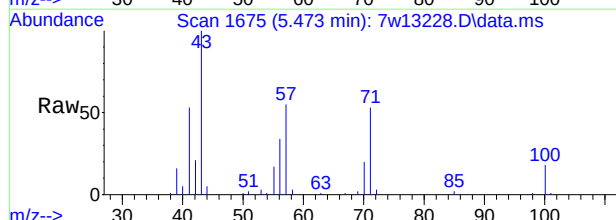
Tgt Ion:	95	Resp:	16311
Ion	Ratio	Lower	Upper
95	100		
130	108.3	72.8	135.2
132	100.9	71.9	133.5
97	62.4	45.4	84.2





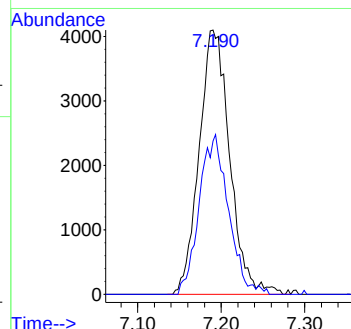
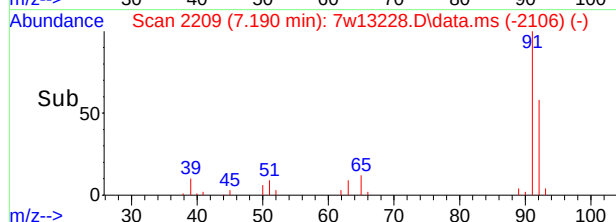
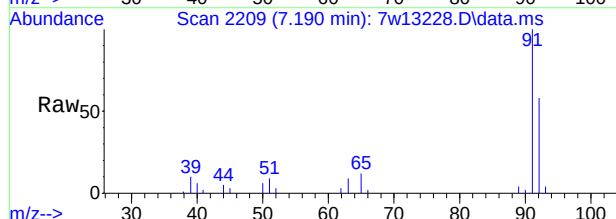
#62
HEPTANE
Concen: 0.70 PPBV
RT: 5.473 min Scan# 1675
Delta R.T. 0.006 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

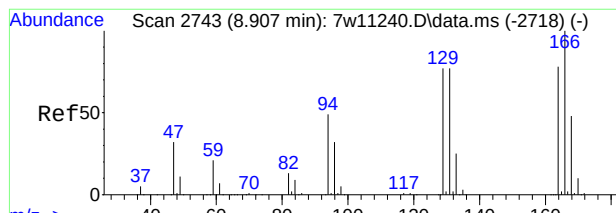
Tgt Ion	Ratio	Lower	Upper
43	100		
71	53.7	40.0	74.4
57	56.9	38.9	72.2



#66
TOLUENE
Concen: 0.23 PPBV
RT: 7.190 min Scan# 2209
Delta R.T. 0.000 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

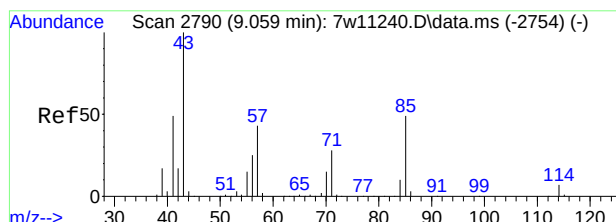
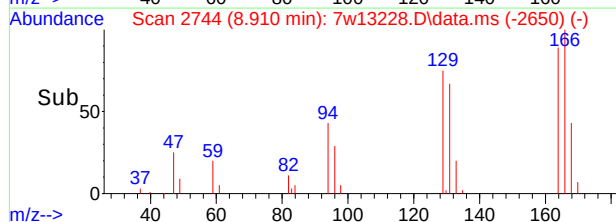
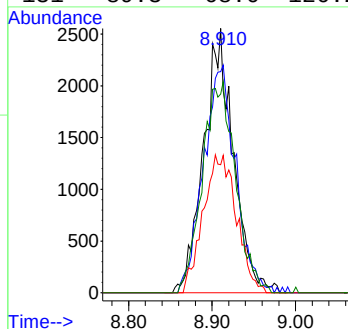
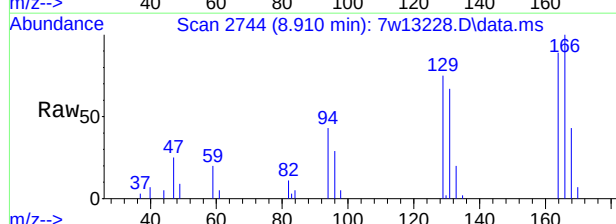
Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.8	29.0	89.0





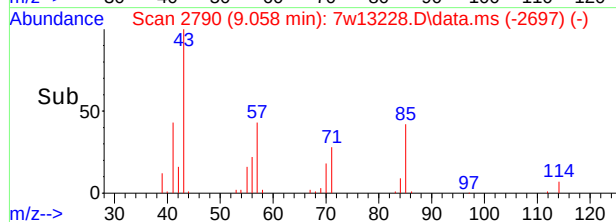
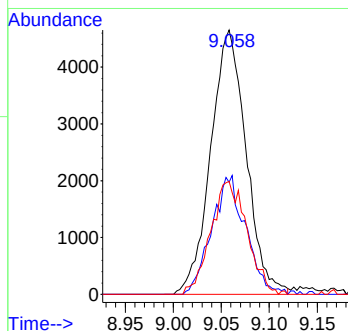
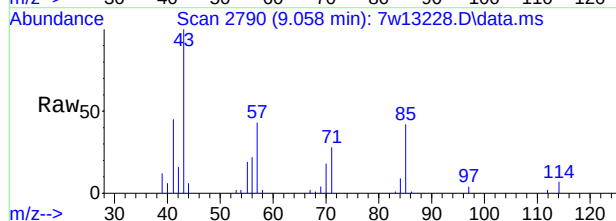
#72
TETRACHLOROETHENE
Concen: 0.37 PPBV
RT: 8.910 min Scan# 2744
Delta R.T. 0.003 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

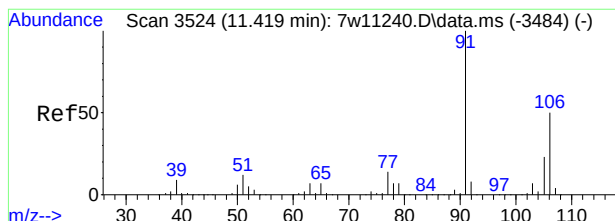
Tgt Ion:	164	Resp:	6324
Ion Ratio	Lower	Upper	
164	100		
129	93.8	68.9	127.9
168	58.4	42.3	78.5
131	89.3	68.0	126.2



#75
OCTANE
Concen: 0.39 PPBV
RT: 9.058 min Scan# 2790
Delta R.T. -0.001 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

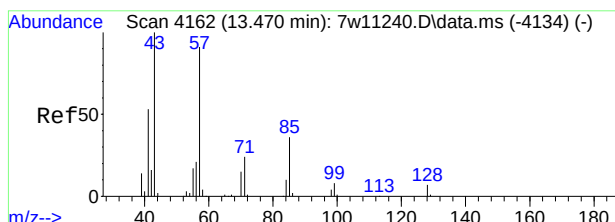
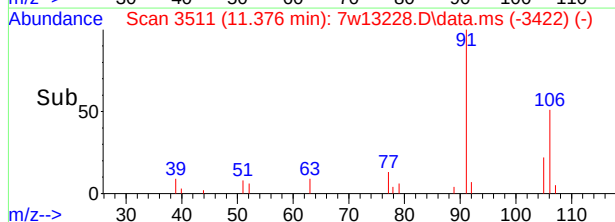
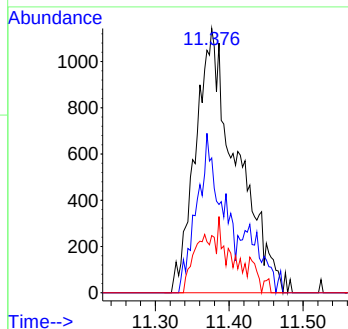
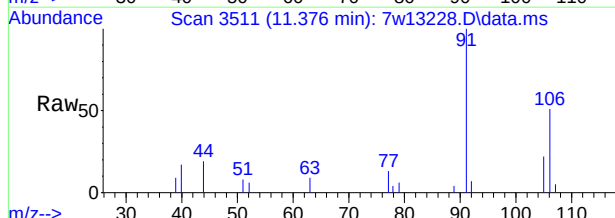
Tgt Ion:	43	Resp:	11948
Ion Ratio	Lower	Upper	
43	100		
85	43.4	33.9	63.0
57	43.8	30.0	55.8





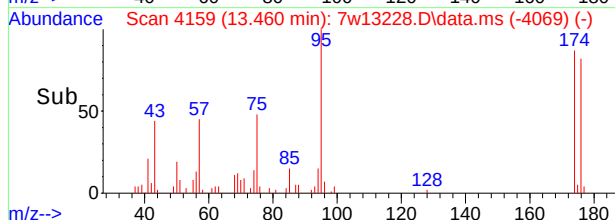
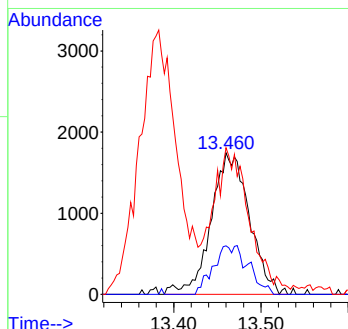
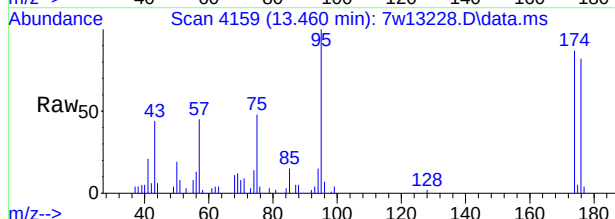
#80
M,P-XYLENE
Concen: 0.10 PPBV
RT: 11.376 min Scan# 3511
Delta R.T. -0.043 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	36.8	0.0	55.5
105	15.1	0.0	41.7



#83
NONANE
Concen: 0.17 PPBV
RT: 13.460 min Scan# 4159
Delta R.T. -0.010 min
Lab File: 7w13228.D
Acq: 6 Mar 2025 6:42 pm

Tgt Ion	Ratio	Lower	Upper
43	100		
85	31.4	25.0	46.4
57	101.4	65.7	122.1



Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\08-Mar-2025\v5w2196\
Data File : 5w57230.D
Acq On : 6 Mar 2025 7:39 pm
Operator : thomash
Sample : je5791-3dup Inst : GCMS5W
Misc : MS89750,V5W2196,400,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 08 03:31:42 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

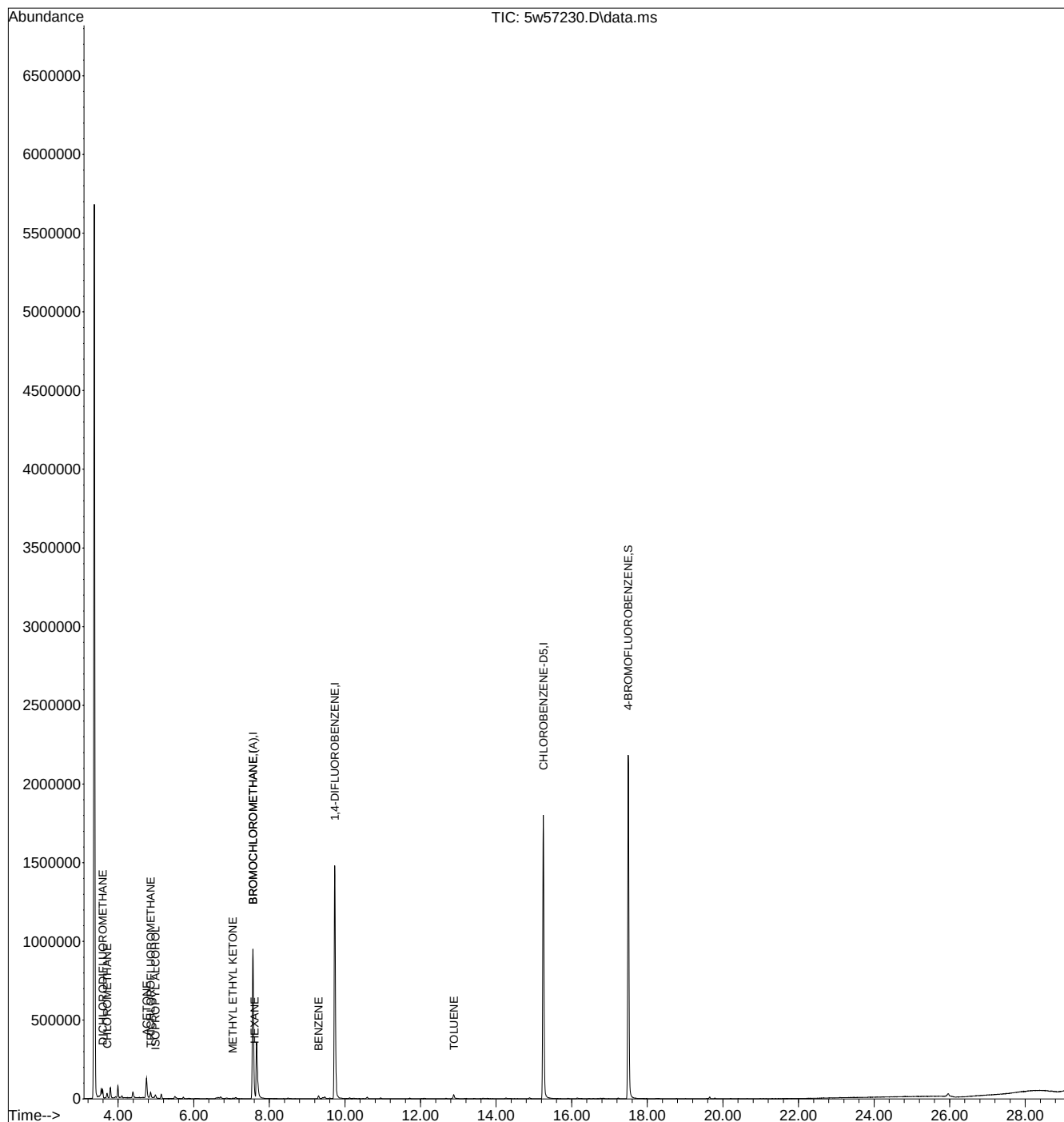
Internal Standards						
1) BROMOCHLOROMETHANE	7.565	128	313999	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.731	114	1500827	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	726588	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.565	128	313999	10.00	PPBV	# 0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.494	95	971879	10.38	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	103.80%
Target Compounds						
					Qvalue	
6) DICHLORODIFLUOROMETHANE	3.589	85	48207	0.4851	PPBV	99
10) CHLOROMETHANE	3.705	52	8266	0.6539	PPBV	95
21) TRICHLOROFLUOROMETHANE	4.855	101	30089	0.3087	PPBV	100
22) ISOPROPYL ALCOHOL	4.989	45	32494	0.5040	PPBV	91
23) ACETONE	4.757	58	48413	2.9990	PPBV	# 1
38) HEXANE	7.608	57	6613	0.1238	PPBV	# 75
41) METHYL ETHYL KETONE	7.033	72	1853	0.1474	PPBV	# 86
52) BENZENE	9.302	78	21417	0.2060	PPBV	98
66) TOLUENE	12.881	92	16736	0.2168	PPBV	95

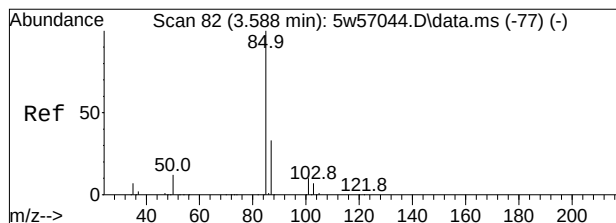
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\08-Mar-2025\v5w2196\
Data File : 5w57230.D
Acq On : 6 Mar 2025 7:39 pm
Operator : thomash
Sample : je5791-3dup Inst : GCMS5W
Misc : MS89750,V5W2196,400,,,1
ALS Vial : 4 Sample Multiplier: 1

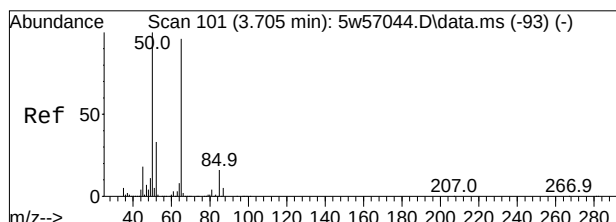
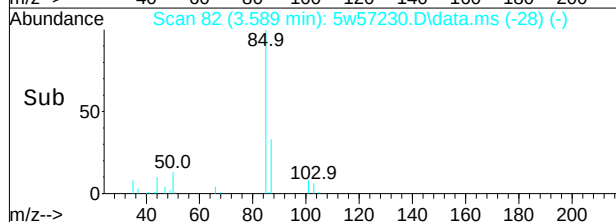
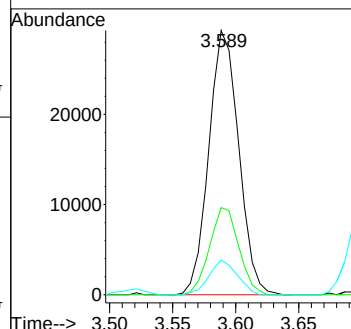
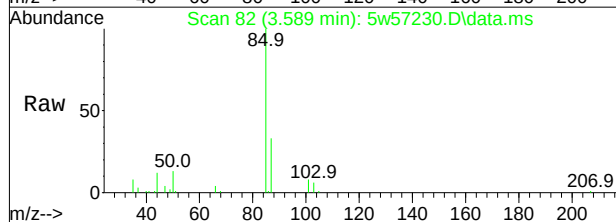
Quant Time: Mar 08 03:31:42 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration





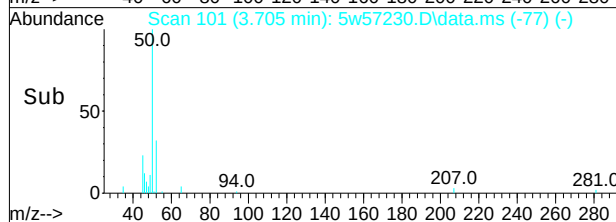
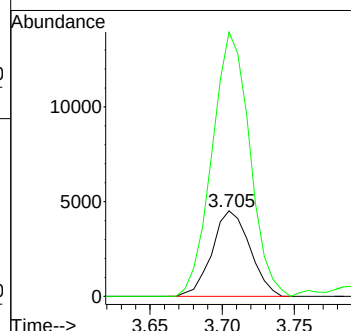
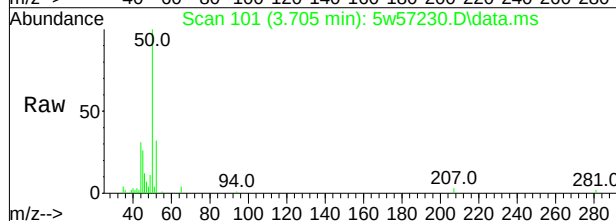
#6
DICHLORODIFLUOROMETHANE
Concen: 0.4851 PPBV
RT: 3.589 min Scan# 82
Delta R.T. 0.001 min
Lab File: 5w57230.D
Acq: 6 Mar 2025 7:39 pm

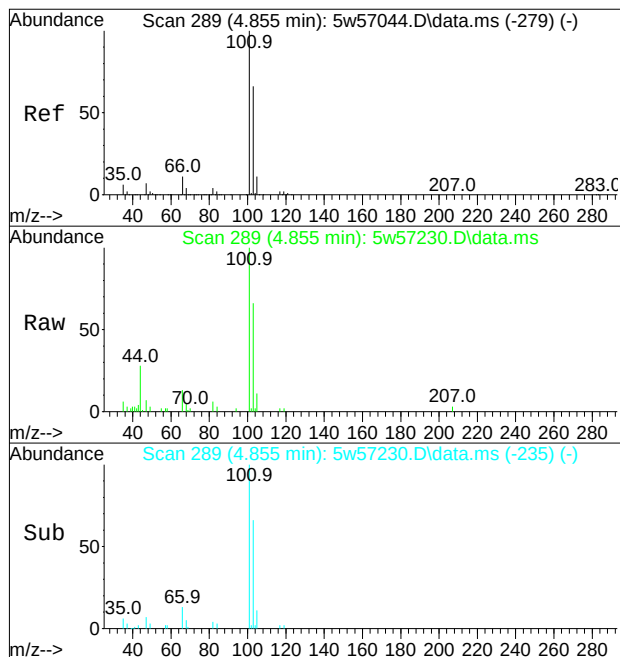
Tgt Ion	85	Resp	48207
Ratio	Lower	Upper	
85	100		
87	32.3	2.7	62.7
50	12.4	0.0	42.6



#10
CHLOROMETHANE
Concen: 0.6539 PPBV
RT: 3.705 min Scan# 101
Delta R.T. -0.000 min
Lab File: 5w57230.D
Acq: 6 Mar 2025 7:39 pm

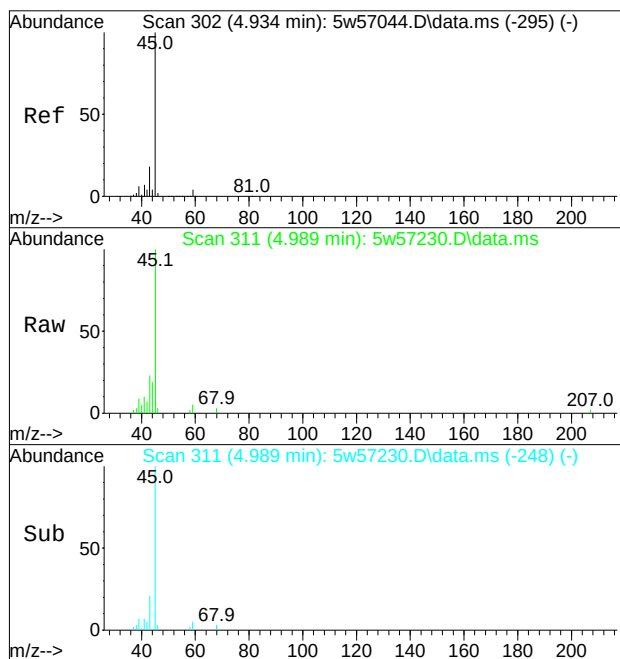
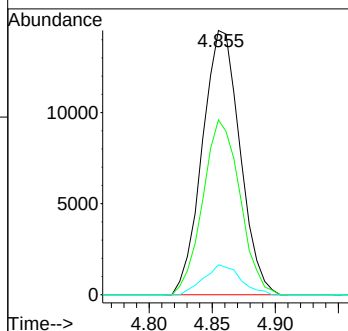
Tgt Ion	52	Resp	8266
Ratio	Lower	Upper	
52	100		
50	309.0	269.7	329.7





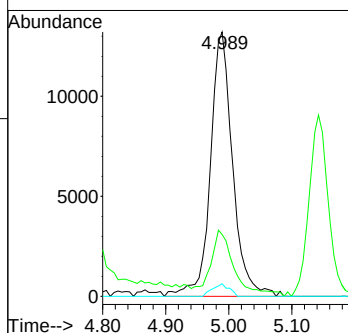
#21
TRICHLOROFLUOROMETHANE
Concen: 0.3087 PPBV
RT: 4.855 min Scan# 289
Delta R.T. -0.000 min
Lab File: 5w57230.D
Acq: 6 Mar 2025 7:39 pm

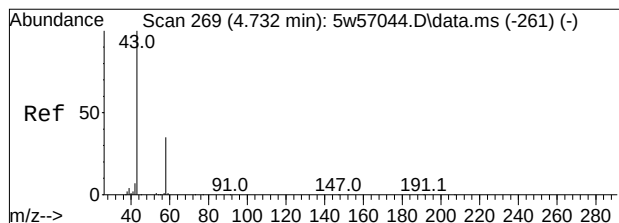
Tgt	Ion	101	Resp:	30089
	Ion	Ratio	Lower	Upper
	101	100		
	103	65.2	35.5	95.5
	105	11.1	0.0	40.8



#22
ISOPROPYL ALCOHOL
Concen: 0.5040 PPBV
RT: 4.989 min Scan# 311
Delta R.T. 0.055 min
Lab File: 5w57230.D
Acq: 6 Mar 2025 7:39 pm

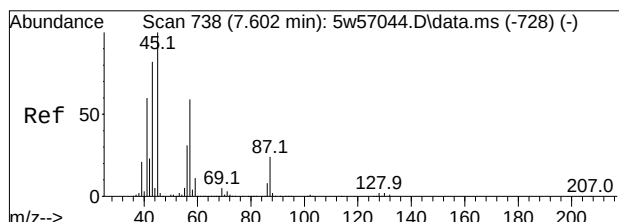
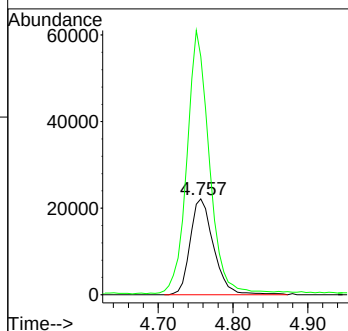
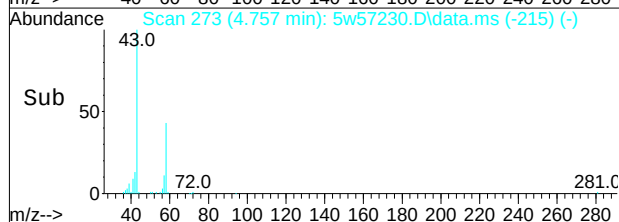
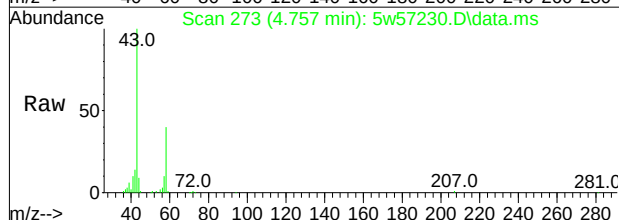
Tgt	Ion	45	Resp:	32494
	Ion	Ratio	Lower	Upper
	45	100		
	43	23.4	0.0	48.5
	59	4.8	0.0	34.2





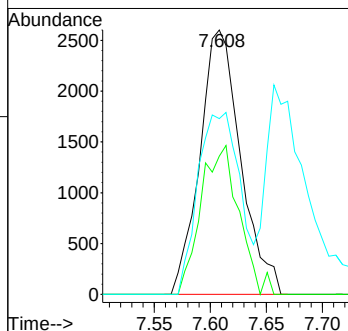
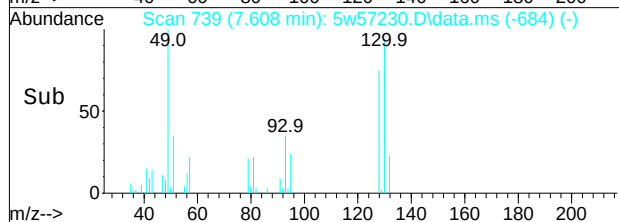
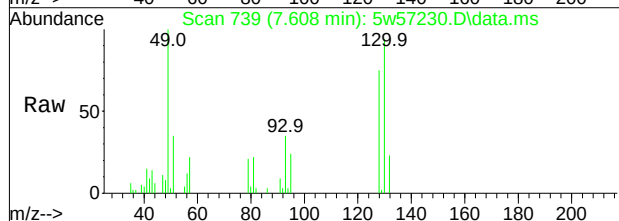
#23
ACETONE
Concen: 2.9990 PPBV
RT: 4.757 min Scan# 273
Delta R.T. 0.025 min
Lab File: 5w57230.D
Acq: 6 Mar 2025 7:39 pm

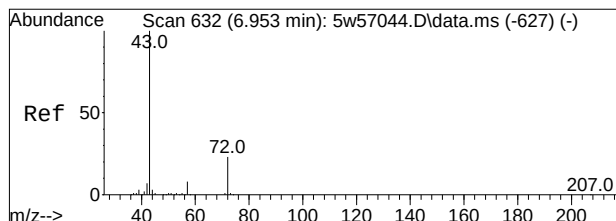
Tgt Ion: 58 Resp: 48413
Ion Ratio Lower Upper
58 100
43 263.2 0.0 32.7#



#38
HEXANE
Concen: 0.1238 PPBV
RT: 7.608 min Scan# 739
Delta R.T. 0.006 min
Lab File: 5w57230.D
Acq: 6 Mar 2025 7:39 pm

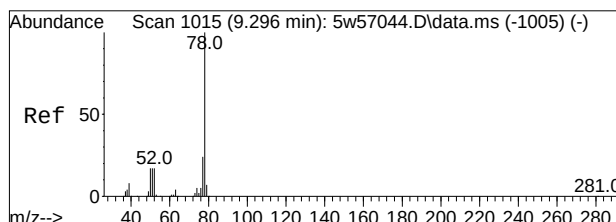
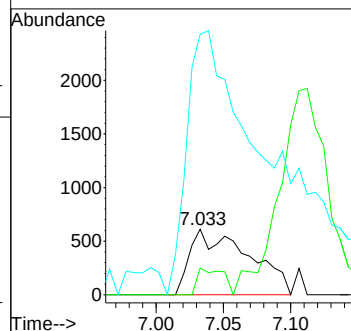
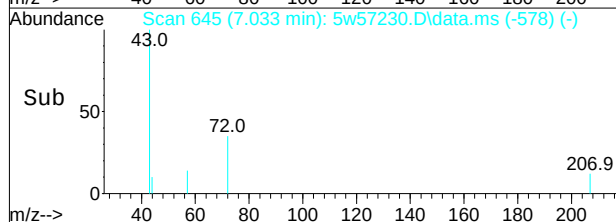
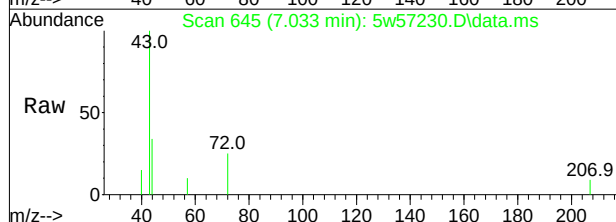
Tgt Ion: 57 Resp: 6613
Ion Ratio Lower Upper
57 100
56 52.5 25.5 85.5
41 71.0 78.7 138.7#





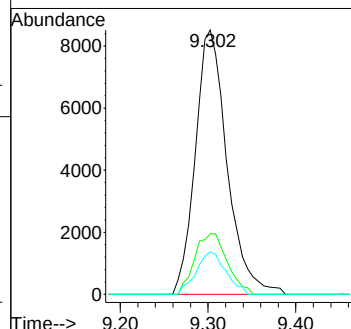
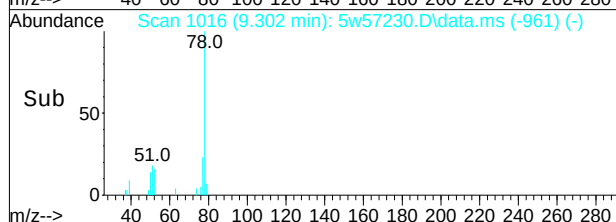
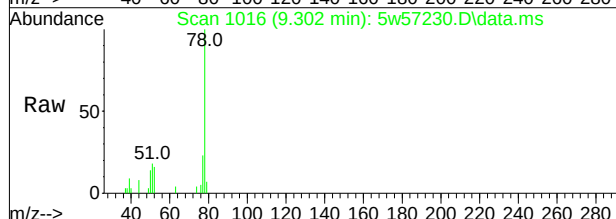
#41
METHYL ETHYL KETONE
Concen: 0.1474 PPBV
RT: 7.033 min Scan# 645
Delta R.T. 0.080 min
Lab File: 5w57230.D
Acq: 6 Mar 2025 7:39 pm

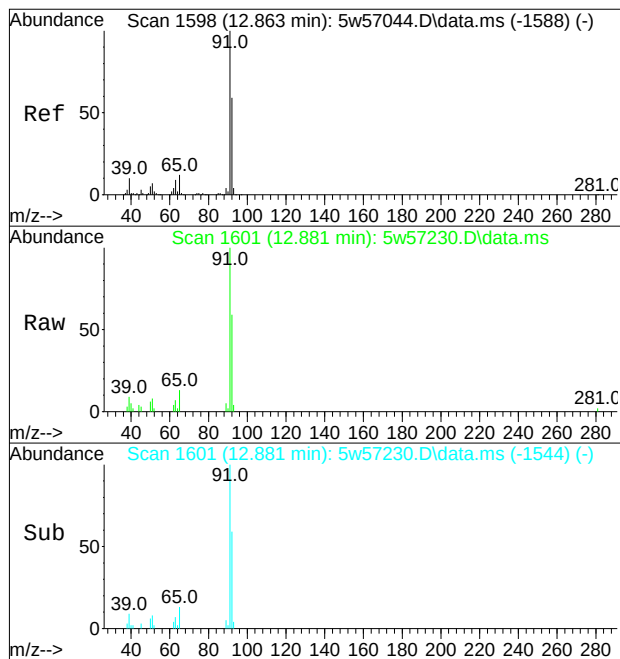
Tgt Ion: 72 Resp: 1853
Ion Ratio Lower Upper
72 100
57 40.8 3.9 63.9
43 396.2 401.3 461.3#



#52
BENZENE
Concen: 0.2060 PPBV
RT: 9.302 min Scan# 1016
Delta R.T. 0.006 min
Lab File: 5w57230.D
Acq: 6 Mar 2025 7:39 pm

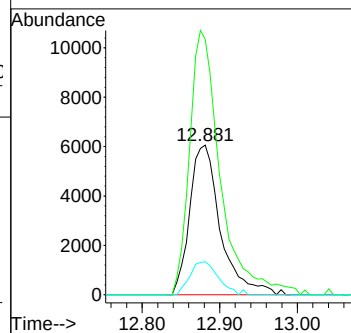
Tgt Ion: 78 Resp: 21417
Ion Ratio Lower Upper
78 100
77 23.5 0.0 53.7
52 15.0 0.0 46.4





#66
TOLUENE
Concen: 0.2168 PPBV
RT: 12.881 min Scan# 1601
Delta R.T. 0.018 min
Lab File: 5w57230.D
Acq: 6 Mar 2025 7:39 pm

Tgt Ion: 92 Resp: 16736
Ion Ratio Lower Upper
92 100
91 176.8 140.2 200.2
65 20.6 0.0 52.3



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\012025\V7W425\
Data File : 7w11904.D
Acq On : 19 Jan 2025 4:04 am
Operator : benk
Sample : scc(a2540),cp12976 Inst : MS7W
Misc : MS88797,v7w425,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 20 11:49:08 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

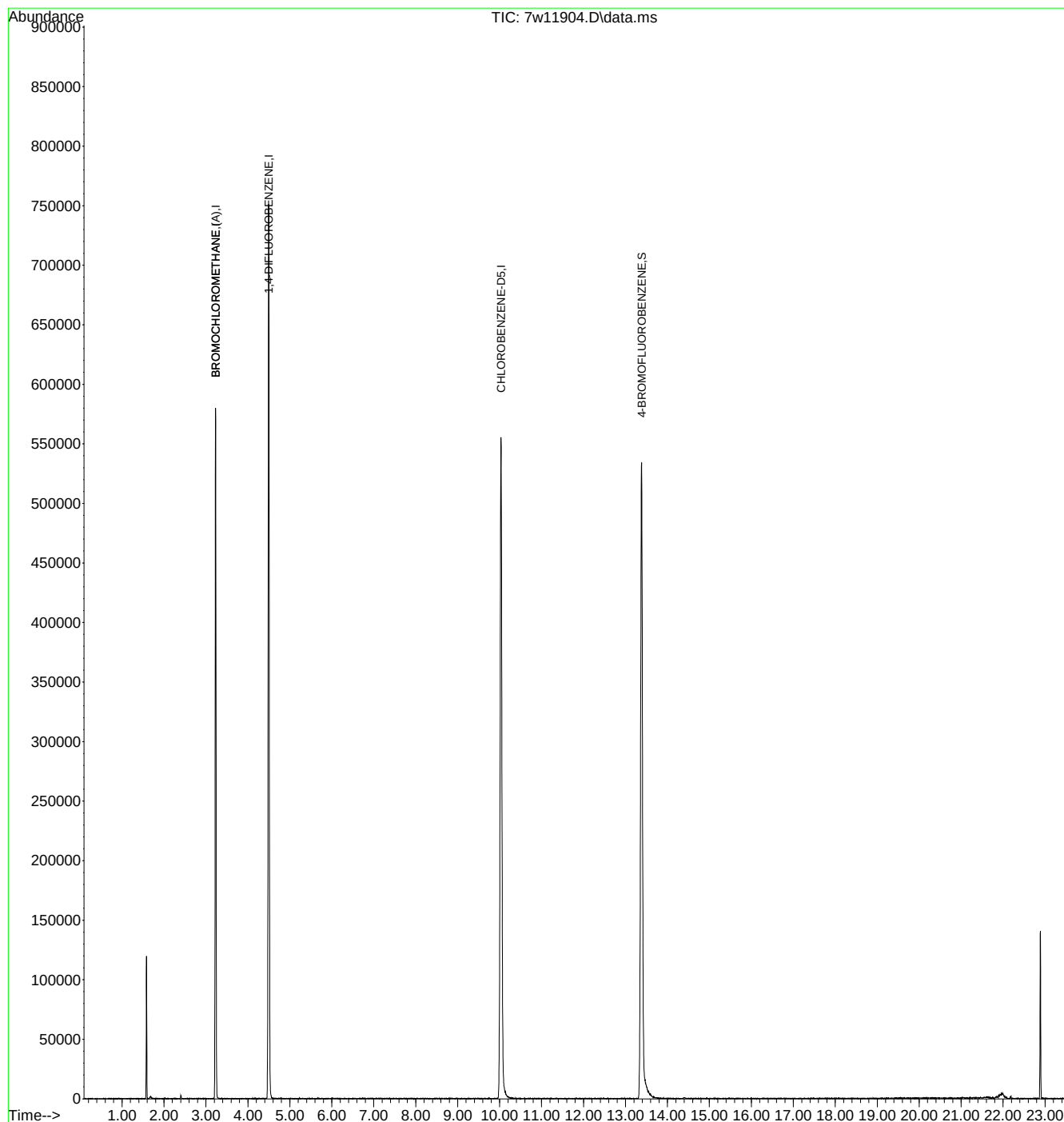
Internal Standards						
1) BROMOCHLOROMETHANE	3.232	128	109858	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.495	114	556217	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	510139	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.232	128	109858	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.383	95	361900	9.78	PPBV	0.00
Target Compounds						
						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\012025\V7W425\
Data File : 7w11904.D
Acq On : 19 Jan 2025 4:04 am
Operator : benk
Sample : scc(a2540),cp12976 Inst : MS7W
Misc : MS88797,v7w425,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 20 11:49:08 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V5W2165\
Data File : 5w56533.D
Acq On : 30 Jan 2025 9:32 pm
Operator : thomash
Sample : scc(a1275),cp12986 Inst : GCMS5W
Misc : MS89211,V5W2165,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 31 13:50:05 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.645	128	456209	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.810	114	1976631	10.00	PPBV	-0.01
70) CHLOROBENZENE-D5	15.328	82	889018	10.00	PPBV	-0.01
109) BROMOCHLOROMETHANE (A)	7.645	128	456209	10.00	PPBV	# 0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.580	95	1218132	11.63	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	116.30%

Target Compounds	Qvalue

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

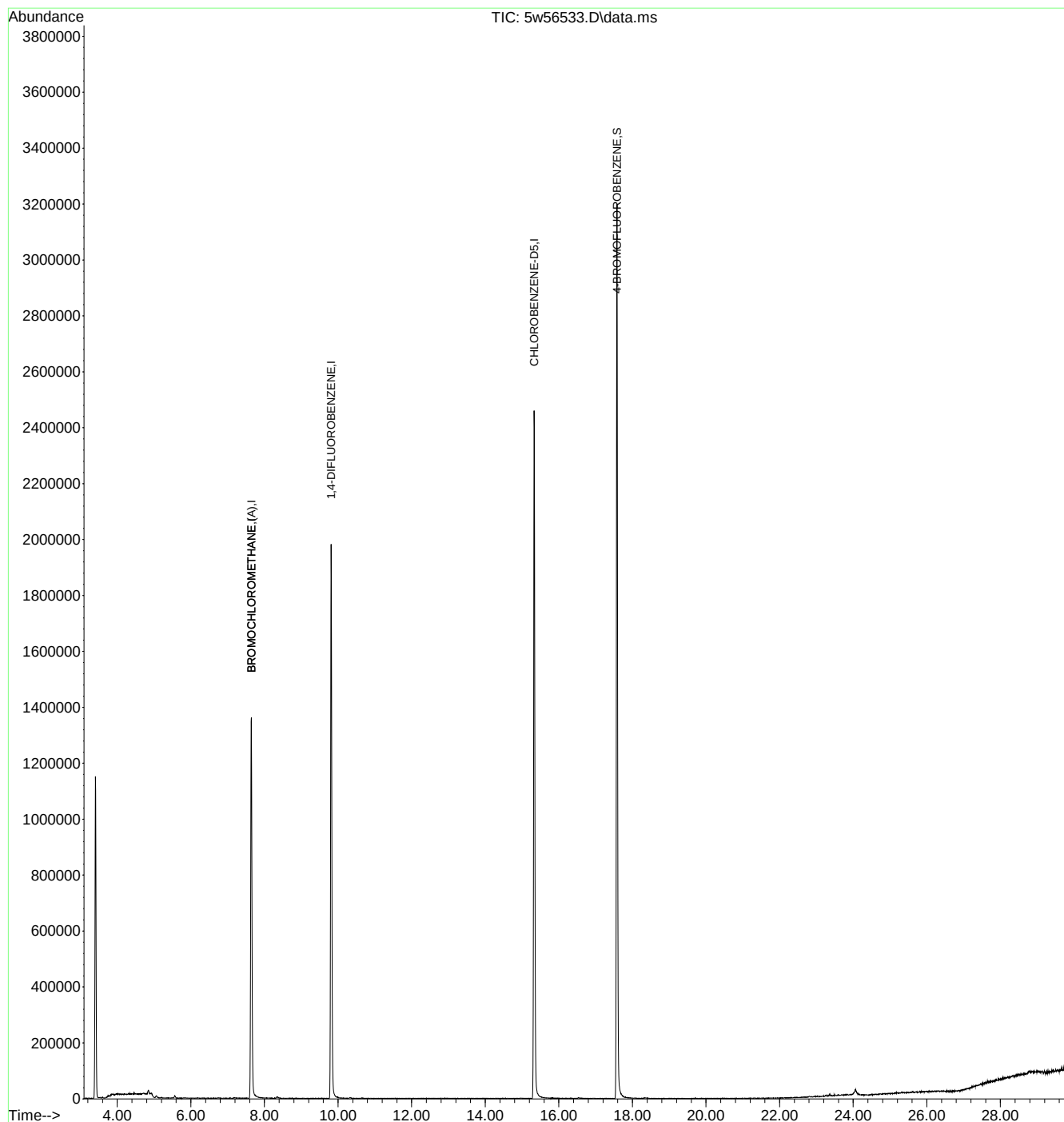
7.5.2

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V5W2165\
Data File : 5w56533.D
Acq On : 30 Jan 2025 9:32 pm
Operator : thomash
Sample : scc(a1275),cp12986 Inst : GCMS5W
Misc : MS89211,V5W2165,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 31 13:50:05 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12295.D
Acq On : 31 Jan 2025 3:22 pm
Operator : williamc
Sample : scc(a268),cp12988 Inst : MS7W
Misc : MS89099,v7w437,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 31 21:42:34 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	124567	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.496	114	641654	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	585566	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	124567	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.379	95	406879	9.58	PPBV	0.00
Target Compounds						Qvalue

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

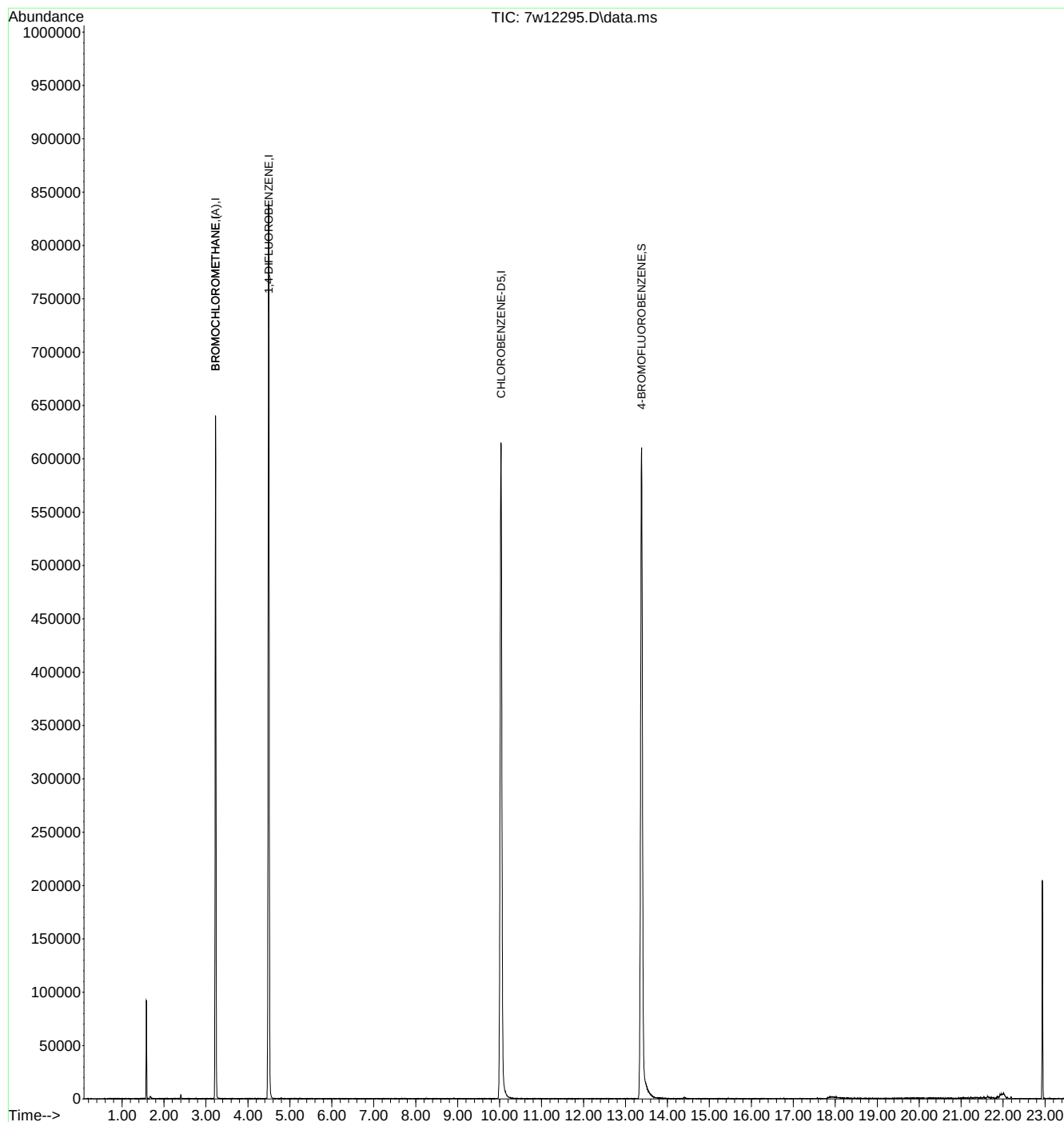
7.5.3

7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12295.D
Acq On : 31 Jan 2025 3:22 pm
Operator : williamc
Sample : scc(a268),cp12988 Inst : MS7W
Misc : MS89099,v7w437,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 31 21:42:34 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

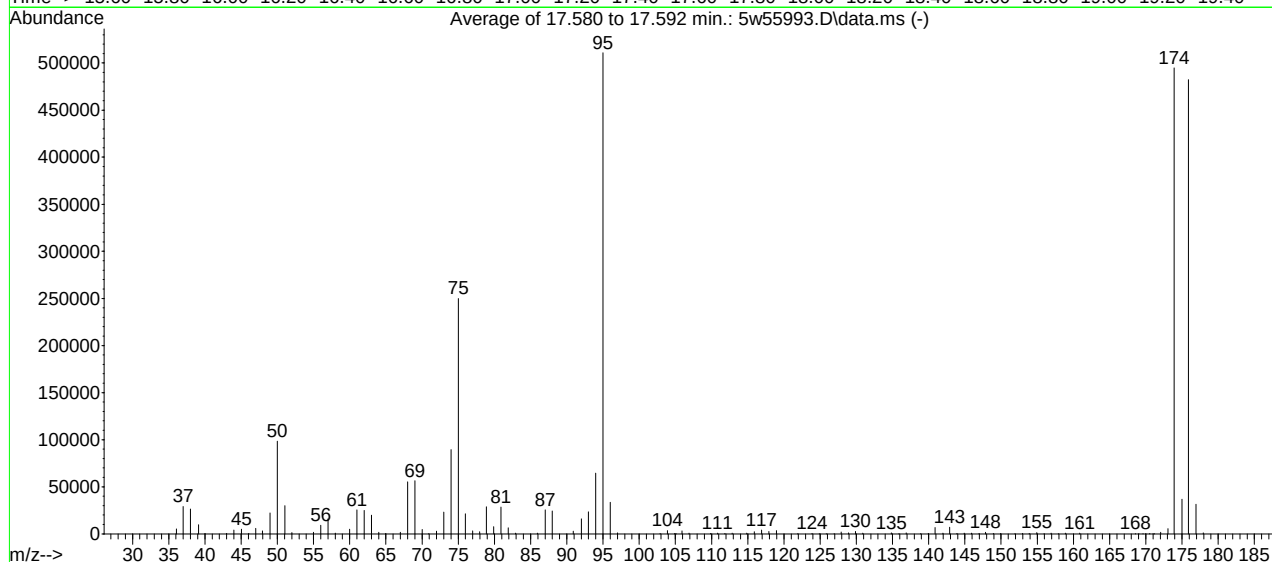
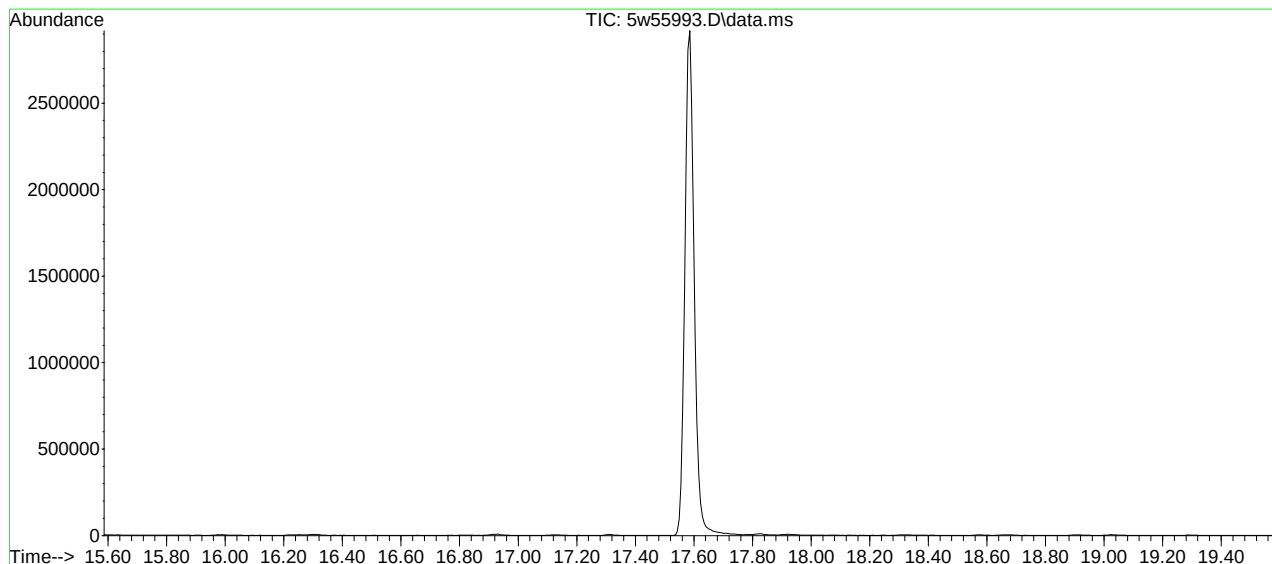


BFB

Data File : C:\msdchem\1\DATA\5w55993.D
Acq On : 8 Jan 2025 11:56 pm
Sample : bfb
Misc : MS88386,V5W2144,,,,,1
MS Integration Params: RTEINT1.P

Vial: 2
Operator: thomash
Inst : GCMS5W
Multiplr: 1.00

Method : Z:\Dayton\MSAIR_Methods\M5w2125.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2369, 2370, 2371; Background Corrected with Scan 2358

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.3	98517	PASS
75	95	30	66	48.9	249792	PASS
95	95	100	100	100.0	510763	PASS
96	95	5	9	6.6	33464	PASS
173	174	0.00	2	1.1	5620	PASS
174	95	50	120	96.9	494933	PASS
175	174	4	9	7.4	36869	PASS
176	174	93	101	97.4	482155	PASS
177	176	5	9	6.5	31496	PASS

Average of 17.580 to 17.592 min.: 5w55993.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	5216	49.00	22128	63.00	19896	75.00	249792
37.00	29176	50.00	98517	64.00	1807	76.00	21245
38.00	26496	51.05	30000	65.00	558	77.00	3117
39.10	9646	52.00	1393	67.00	1520	77.95	2290
40.00	412	55.00	1621	68.00	55309	78.90	28645
43.00	343	56.00	9136	69.00	56520	79.90	7564
44.00	4044	57.00	15952	70.00	4652	80.90	28453
45.05	5070	58.00	723	70.90	69	81.90	6328
46.05	414	60.00	4815	72.00	2801	82.90	707
47.00	5712	61.00	25477	73.00	23098	85.95	630
47.95	3052	62.00	24984	74.00	89389	87.00	25539

Average of 17.580 to 17.592 min.: 5w55993.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
88.00	24331	105.10	181	118.95	3367	135.90	169
90.90	2766	105.90	3174	121.90	84	136.90	1122
92.00	15808	106.90	632	123.90	396	138.85	202
93.00	23531	109.85	573	124.90	231	139.95	478
94.00	64435	110.85	747	125.85	304	140.90	6607
95.00	510763	111.85	561	126.95	154	141.95	843
96.00	33464	112.85	774	127.90	2009	142.90	6930
97.00	985	114.85	680	128.90	1052	143.90	367
102.90	327	115.90	2171	129.90	2432	144.90	668
103.90	3310	116.90	3987	130.90	703	145.90	886
104.90	600	117.90	2415	134.85	1199	146.95	414

Average of 17.580 to 17.592 min.: 5w55993.D\data.ms

bfb

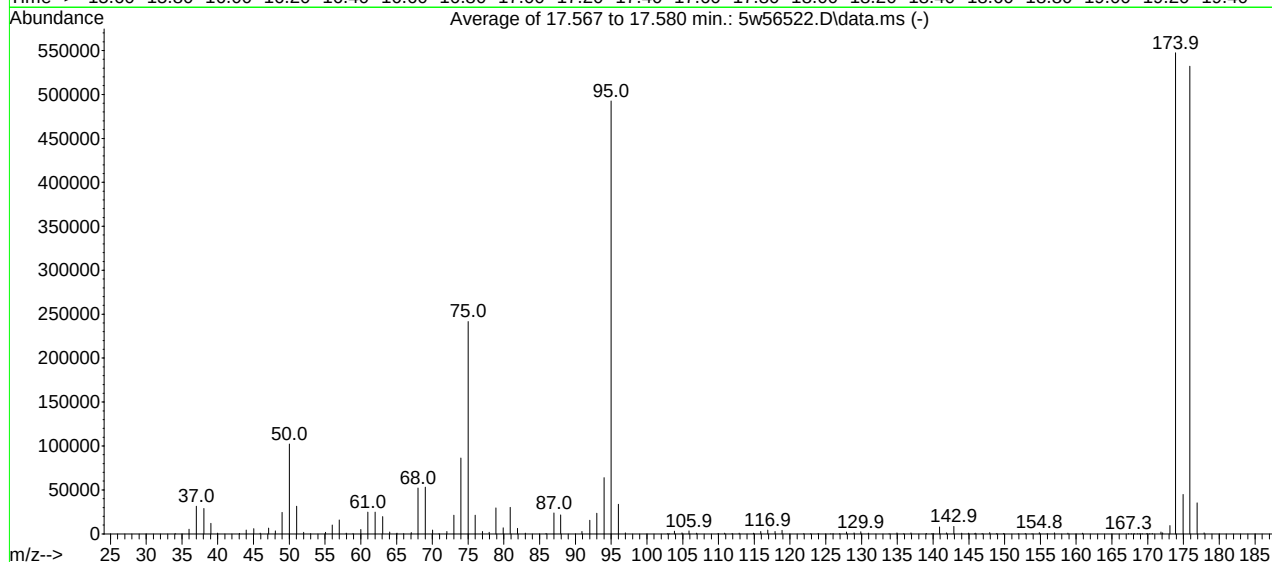
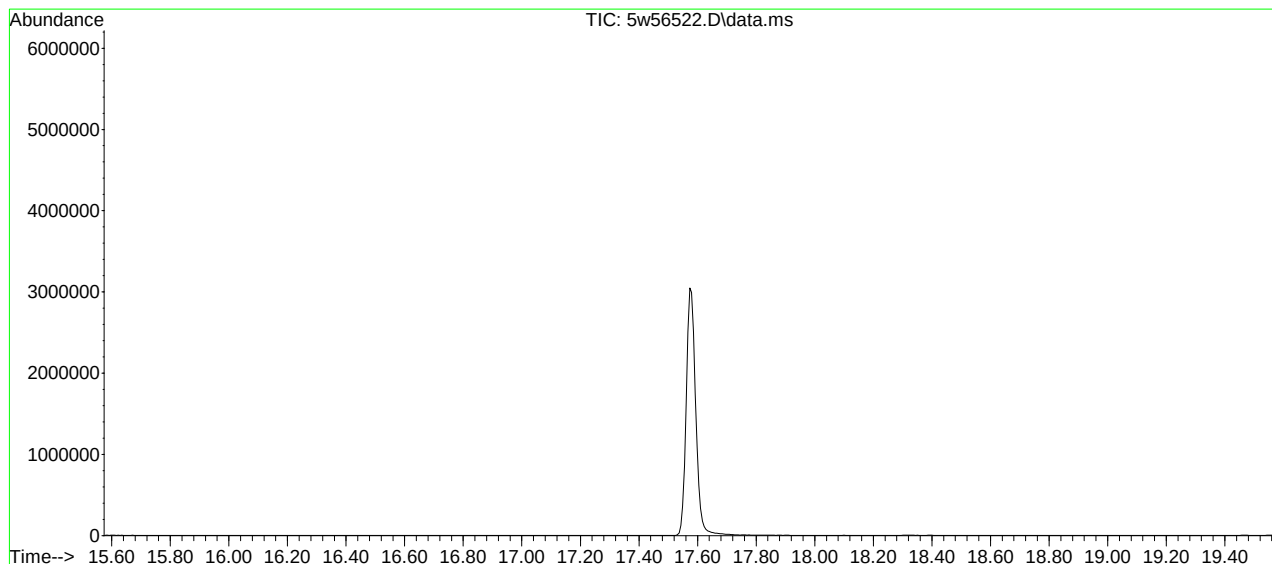
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
147.85	1586	160.85	668	175.00	36869		
148.95	378	168.55	187	175.90	482155		
149.95	562	169.05	159	176.95	31496		
151.90	256	169.60	187	177.95	988		
152.95	400	170.00	126				
153.90	396	170.55	346				
154.95	1406	171.00	246				
155.95	297	171.20	209				
156.90	822	172.05	1749				
157.90	67	173.05	5620				
158.90	790	173.90	494933				

BFB

Data File : X:\Dayton VOA GCMS\m...025\V5W2165\5w56522.D Vial: 1
Acq On : 30 Jan 2025 12:01 pm Operator: thomash
Sample : bfb Inst : GCMS5W
Misc : MS89211,V5W2165,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2144.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2367, 2368, 2369; Background Corrected with Scan 2358

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.8	102264	PASS
75	95	30	66	49.1	241749	PASS
95	95	100	100	100.0	492501	PASS
96	95	5	9	6.8	33557	PASS
173	174	0.00	2	1.7	9444	PASS
174	95	50	120	111.1	547328	PASS
175	174	4	9	8.2	44776	PASS
176	174	93	101	97.2	532267	PASS
177	176	5	9	6.6	35152	PASS

Average of 17.567 to 17.580 min.: 5w56522.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
34.10	84	48.05	3501	60.00	4834	70.95	224
36.00	5337	49.00	24456	61.00	24821	72.05	2677
37.00	31277	50.00	102264	62.00	24656	73.00	21387
38.05	28813	51.05	31504	63.05	19800	74.00	86152
39.05	12091	52.00	1669	64.05	2107	75.00	241749
40.00	790	53.00	81	65.05	780	76.00	21115
43.05	490	55.05	1767	66.00	292	77.00	2903
44.00	4172	56.00	10172	67.05	1555	77.95	1887
45.05	5887	57.00	15963	68.00	52181	78.90	29669
45.95	758	57.95	881	69.00	53128	79.90	6769
47.10	6562	58.90	87	70.05	4445	80.90	30061

Average of 17.567 to 17.580 min.: 5w56522.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
81.90	6172	97.00	1081	114.90	745	127.90	2268
83.00	702	102.85	283	115.90	2654	128.95	1199
85.90	508	103.10	102	116.90	4263	129.90	2496
87.00	23621	103.85	3093	117.90	2783	130.95	960
87.95	21640	104.90	1095	118.90	3855	133.85	218
90.90	2862	105.90	3219	121.90	71	134.95	1174
92.00	15571	106.95	696	122.90	112	135.85	323
93.00	23509	109.95	505	123.95	540	136.90	1124
94.00	63853	110.85	944	125.70	124	139.05	390
95.00	492501	111.90	499	126.00	182	139.85	495
96.00	33557	112.90	864	126.90	166	140.10	282

Average of 17.567 to 17.580 min.: 5w56522.D\data.ms

bfb

Modified:subtracted

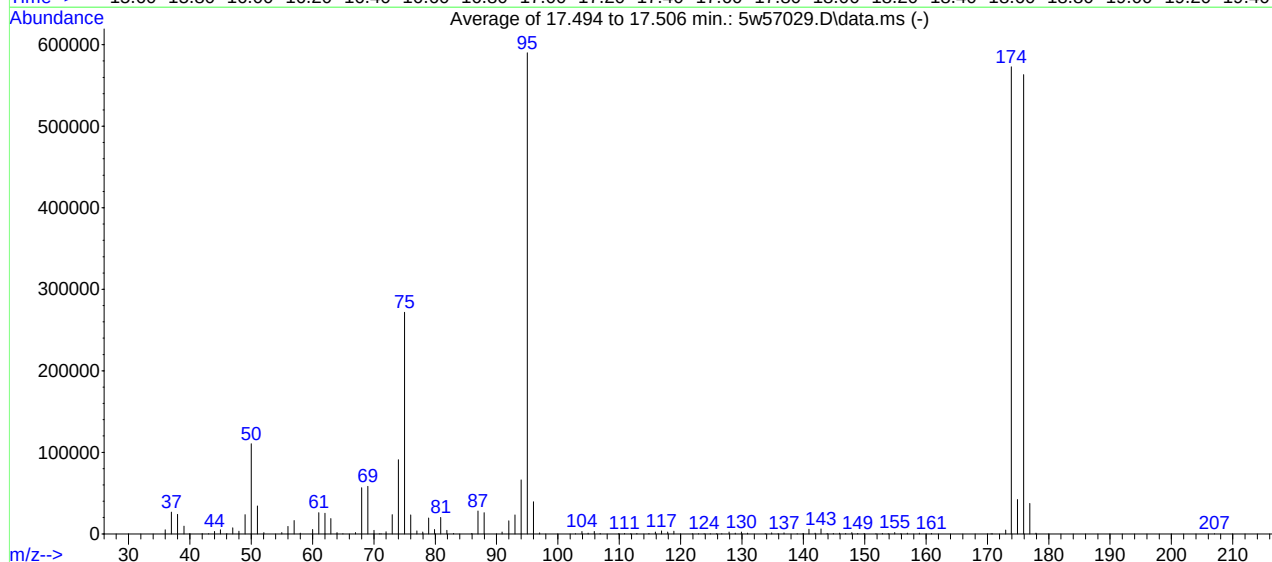
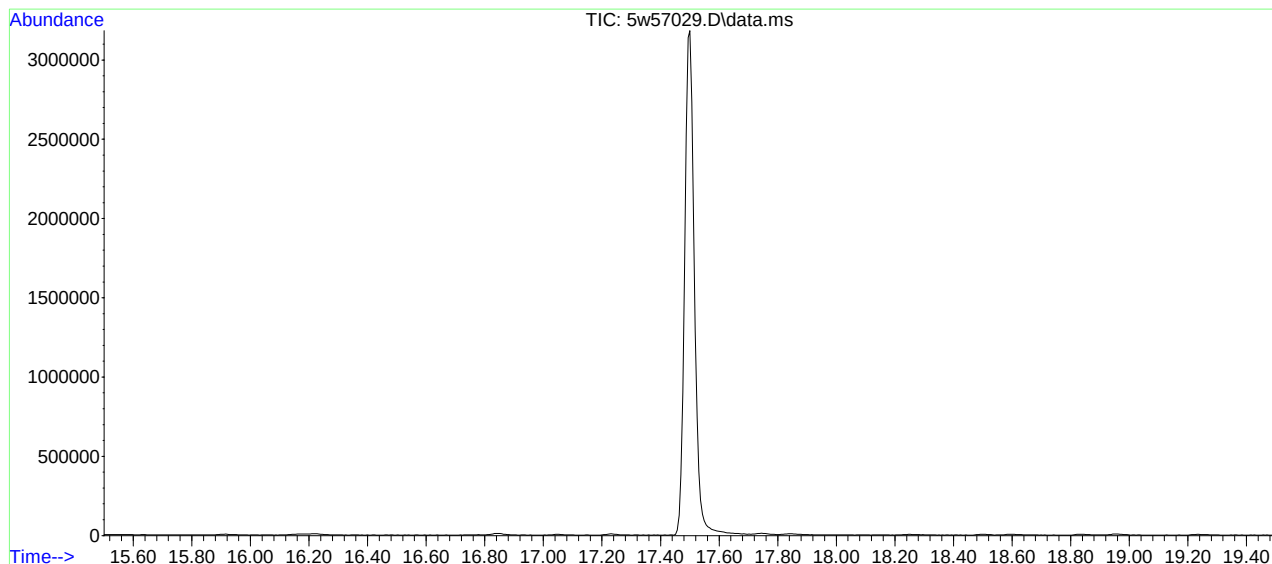
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
140.90	7992	151.90	227	168.60	75	175.90	532267
141.90	1064	152.90	407	168.90	147	176.90	35152
142.90	8404	153.85	324	169.25	285	177.90	1008
144.00	699	154.85	1475	169.90	373		
144.95	746	155.95	144	170.30	218		
145.80	259	156.95	1251	170.65	648		
145.95	740	158.85	819	171.85	2106		
146.85	395	160.90	853	172.10	1165		
147.90	1523	167.30	243	173.10	9444		
148.90	407	167.70	90	173.90	547328		
149.85	564	168.15	342	174.95	44776		

BFB

Data File : C:\msdchem\1\data\5w\5w57029.D
Acq On : 23 Feb 2025 1:15 am
Sample : bfb
Misc : MS88386,V5W2187,,,,,1
MS Integration Params: RTEINT1.P

Vial: 2
Operator: benk
Inst : GCMS5W
Multiplr: 1.00

Method : C:\msdchem\1\methods\M5wBFB.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2355, 2356, 2357; Background Corrected with Scan 2345

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	110643	PASS
75	95	30	66	46.0	271680	PASS
95	95	100	100	100.0	590016	PASS
96	95	5	9	6.7	39536	PASS
173	174	0.00	2	0.8	4639	PASS
174	95	50	120	97.1	572864	PASS
175	174	4	9	7.4	42117	PASS
176	174	93	101	98.3	563371	PASS
177	176	5	9	6.6	37405	PASS

Average of 17.494 to 17.506 min.: 5w57029.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	4967	48.00	3276	62.00	25376	73.00	23525
37.00	26528	49.00	23445	63.00	18805	74.00	90944
38.00	23899	50.00	110643	64.00	1741	75.00	271680
39.05	9372	51.00	34173	64.95	224	76.00	23299
40.00	377	52.05	1408	67.00	1595	77.00	3475
42.00	71	55.00	1469	68.00	56733	77.95	2335
43.05	157	56.00	9186	69.00	58269	78.90	19525
44.00	2940	57.00	16369	70.00	4385	79.90	5490
45.00	5142	58.00	722	70.90	74	80.90	19989
46.05	382	60.00	5229	71.15	168	81.90	4388
47.00	7274	61.00	26000	72.00	2757	83.00	471

Average of 17.494 to 17.506 min.: 5w57029.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
85.95	646	103.90	2884	117.90	2215	130.90	846
86.95	27923	104.90	968	118.90	3177	133.80	71
87.95	25915	105.90	2810	121.90	67	134.85	1088
90.90	2308	106.90	586	122.90	70	135.90	76
92.00	15993	109.90	358	123.85	378	136.85	1179
93.00	23272	110.85	555	124.85	155	139.00	79
94.00	66363	111.85	379	125.85	255	139.95	407
95.00	590016	112.85	564	126.70	69	140.90	5737
96.00	39536	114.85	638	127.90	2157	141.90	754
97.00	1157	115.90	2177	128.90	968	142.90	6055
102.85	261	116.90	3715	129.90	2273	143.90	393

Average of 17.494 to 17.506 min.: 5w57029.D\data.ms

bfb

Modified:subtracted

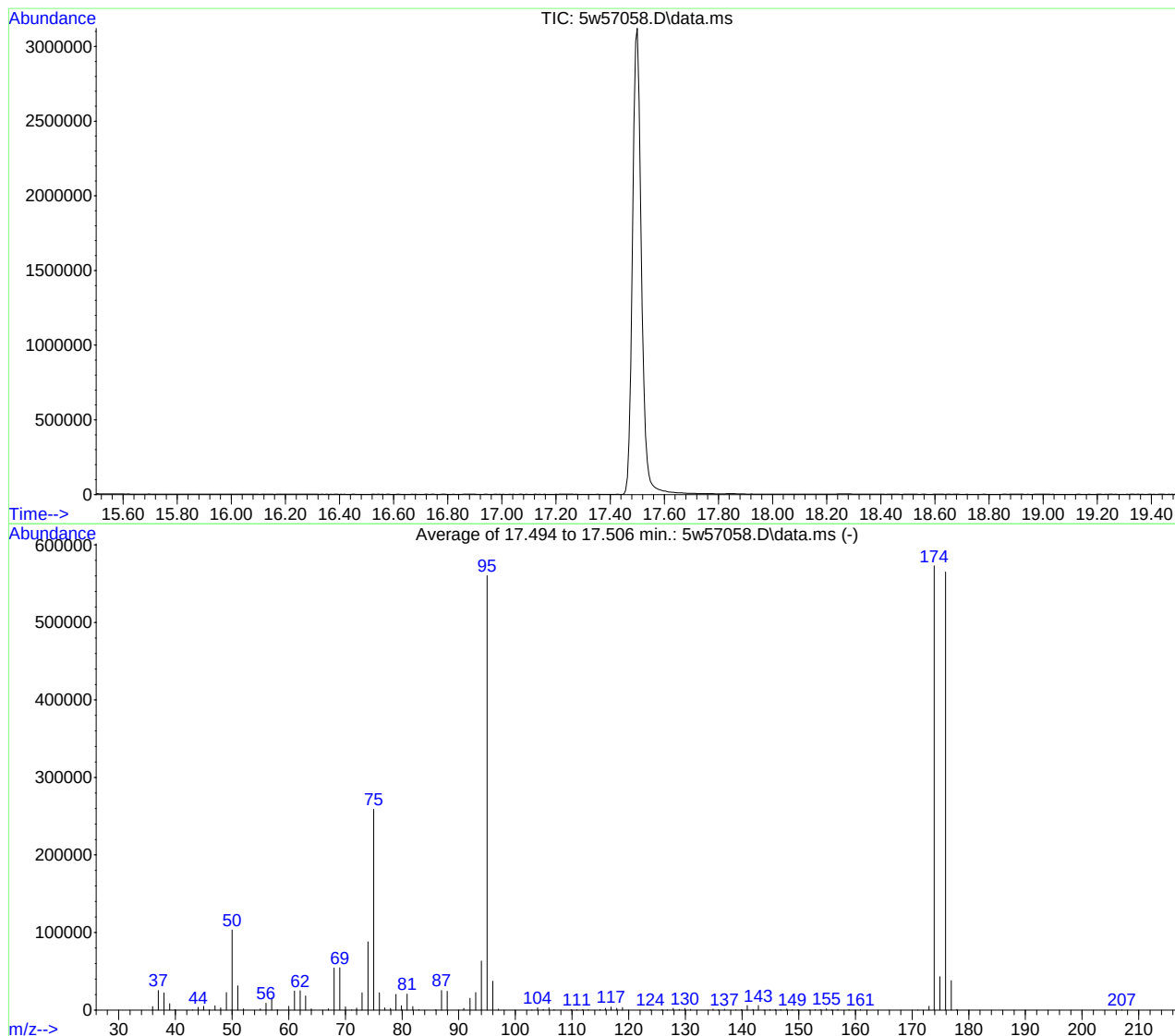
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
144.90	470	156.95	996	207.00	158		
145.90	845	158.90	789				
146.90	497	160.90	658				
147.90	1483	170.60	70				
148.85	472	170.80	91				
149.90	541	173.00	4639				
151.85	267	173.90	572864				
152.90	420	174.90	42117				
153.85	378	175.90	563371				
154.90	1534	176.90	37405				
155.90	67	177.90	1048				

BFB

Data File : C:\msdchem\1\data\5w\5w57058.D
Acq On : 24 Feb 2025 6:59 am
Sample : bfb2
Misc : MS88386,V5W2187,,,,,1
MS Integration Params: RTEINT1.P

Vial: 1
Operator: benk
Inst : GCMS5W
Multiplr: 1.00

Method : C:\msdchem\1\methods\M5wBFB.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2355, 2356, 2357; Background Corrected with Scan 2345

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.5	103501	PASS
75	95	30	66	46.2	259008	PASS
95	95	100	100	100.0	560363	PASS
96	95	5	9	6.6	37155	PASS
173	174	0.00	2	0.9	4909	PASS
174	95	50	120	102.3	572992	PASS
175	174	4	9	7.5	42824	PASS
176	174	93	101	98.6	565184	PASS
177	176	5	9	6.7	37787	PASS

Average of 17.494 to 17.506 min.: 5w57058.D\data.ms

bfb2

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	4553	49.00	22565	63.00	18295	76.00	22299
37.00	25163	50.00	103501	64.00	1593	76.95	2995
38.00	22325	51.00	31253	67.00	1452	77.95	2302
39.00	8332	52.00	1436	68.00	54240	78.90	20139
39.95	360	55.00	1489	69.00	54621	79.90	5408
43.00	326	56.00	8777	70.00	4165	80.90	20632
44.00	3368	57.00	15392	71.10	78	81.90	4453
45.00	4757	58.00	612	72.00	2667	82.95	410
46.00	347	60.00	4865	72.95	22321	85.95	678
47.00	5682	61.00	24661	74.00	88037	86.95	25144
48.00	2964	62.00	24779	75.00	259008	87.95	24139

Average of 17.494 to 17.506 min.: 5w57058.D\data.ms

bfb2

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.90	2271	106.85	577	125.90	177	140.90	5866
92.00	15138	109.85	377	126.80	89	141.90	740
93.00	22515	110.85	583	127.85	2237	142.90	5968
94.00	63379	111.85	360	128.90	1013	143.90	292
95.00	560363	112.85	609	129.90	2263	144.95	509
96.00	37155	114.90	634	130.90	937	145.85	821
97.00	1201	115.90	2203	134.90	1093	146.80	438
102.90	313	116.90	3833	135.80	79	147.90	1426
103.90	2731	117.90	2323	136.90	1128	148.85	379
104.90	805	118.90	3098	138.90	84	149.85	610
105.90	2725	123.85	367	139.85	379	151.90	289

Average of 17.494 to 17.506 min.: 5w57058.D\data.ms

bfb2

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.90	445	175.90	565184				
153.85	372	176.90	37787				
154.90	1509	177.90	967				
155.85	250	207.00	158				
156.90	1004						
158.85	702						
160.90	682						
171.00	77						
173.00	4909						
173.90	572992						
174.90	42824						

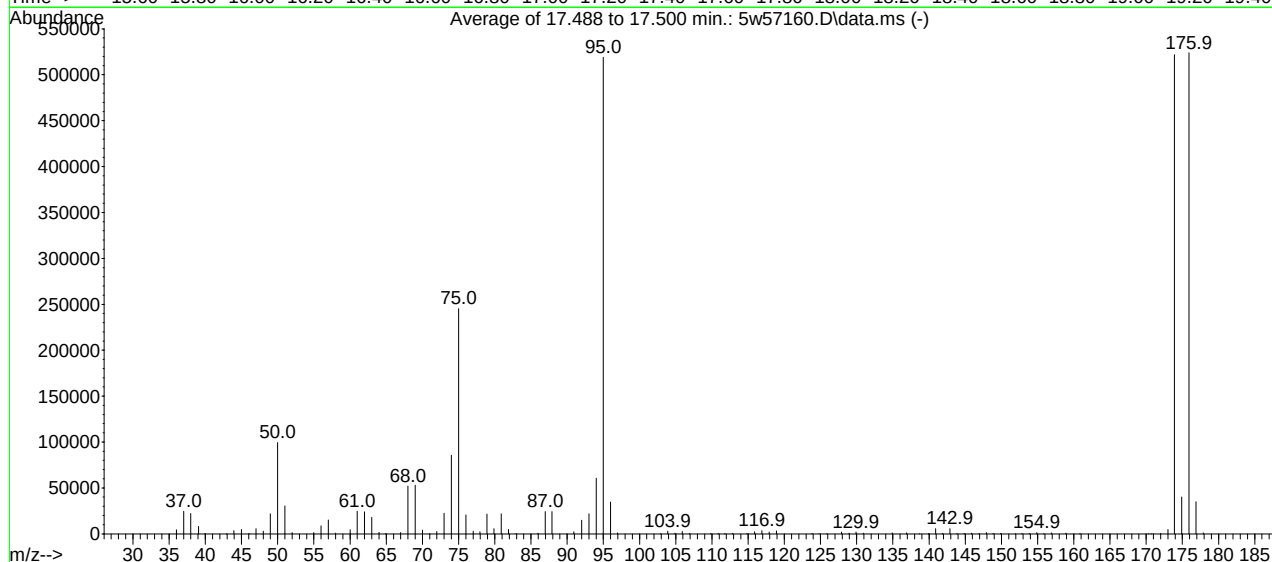
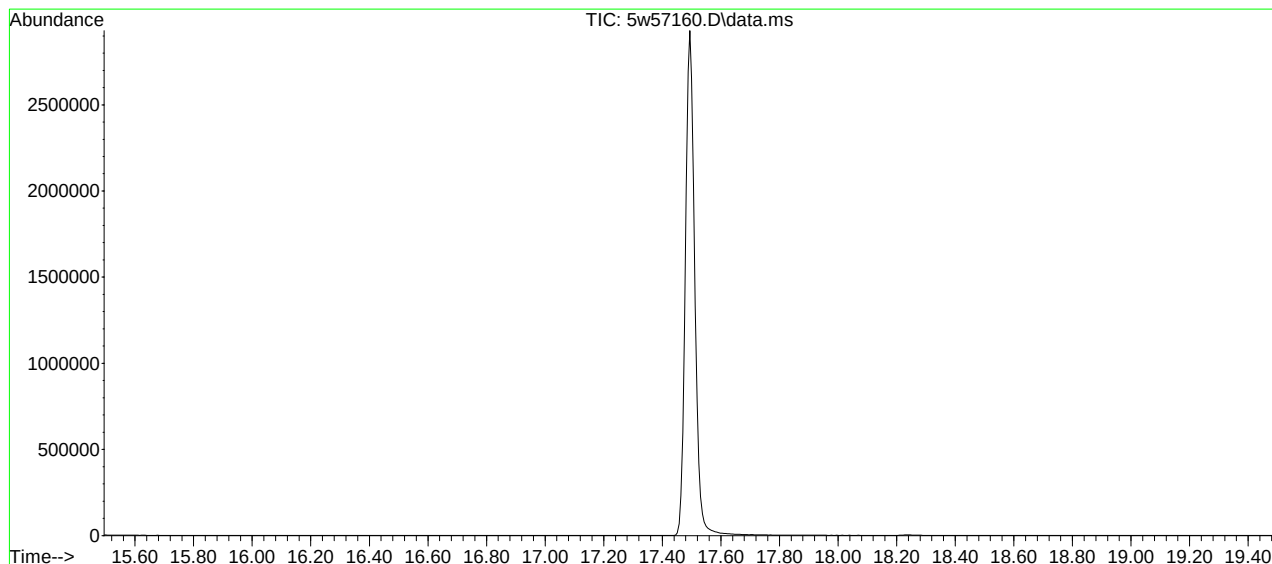
7.6.4

7

BFB

Data File : X:\Dayton VOA GCMS\k...425\v5w2193\5w57160.D Vial: 1
Acq On : 3 Mar 2025 12:10 pm Operator: thomash
Sample : bfb Inst : GCMS5W
Misc : MS89870,V5W2193,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2187.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2354, 2355, 2356; Background Corrected with Scan 2344

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.2	99400	PASS
75	95	30	66	47.2	245205	PASS
95	95	100	100	100.0	518976	PASS
96	95	5	9	6.7	34757	PASS
173	174	0.00	2	0.9	4769	PASS
174	95	50	120	100.6	521835	PASS
175	174	4	9	7.7	40131	PASS
176	174	93	101	100.4	523861	PASS
177	176	5	9	6.7	35120	PASS

Average of 17.488 to 17.500 min.: 5w57160.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	4424	49.00	21853	63.00	17917	75.00	245205
37.00	24533	50.00	99400	64.00	1624	76.00	20557
38.00	22016	51.00	30461	64.90	68	77.00	2972
39.05	8215	52.00	1299	67.00	1464	77.95	2277
39.95	353	55.00	1426	68.00	52152	78.90	21448
42.95	245	56.00	8797	69.00	52928	79.90	5557
43.95	3483	57.00	15184	70.00	4270	80.90	21853
45.00	4649	58.00	650	71.00	68	81.90	4727
46.05	356	60.00	4560	72.00	2732	82.95	464
47.00	5797	61.00	24688	73.00	22603	85.95	648
48.00	2975	62.00	23883	74.00	85733	86.95	24435

Average of 17.488 to 17.500 min.: 5w57160.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.90	24152	105.90	2677	123.85	391	140.90	5537
90.90	2338	106.90	591	124.80	67	141.85	621
92.00	14791	109.85	438	125.90	240	142.90	5633
93.00	21845	110.85	628	127.90	2018	143.85	323
94.00	60723	111.80	355	128.95	920	144.85	466
95.00	518976	112.85	559	129.90	2087	145.85	802
96.00	34757	114.85	606	130.90	762	146.90	376
96.95	969	115.90	2228	134.90	990	147.90	1298
102.90	290	116.90	3608	136.90	1019	148.85	337
103.90	2879	117.90	2100	138.70	69	149.90	560
104.90	832	118.90	3090	139.95	436	151.90	266

Average of 17.488 to 17.500 min.: 5w57160.D\data.ms

bfb

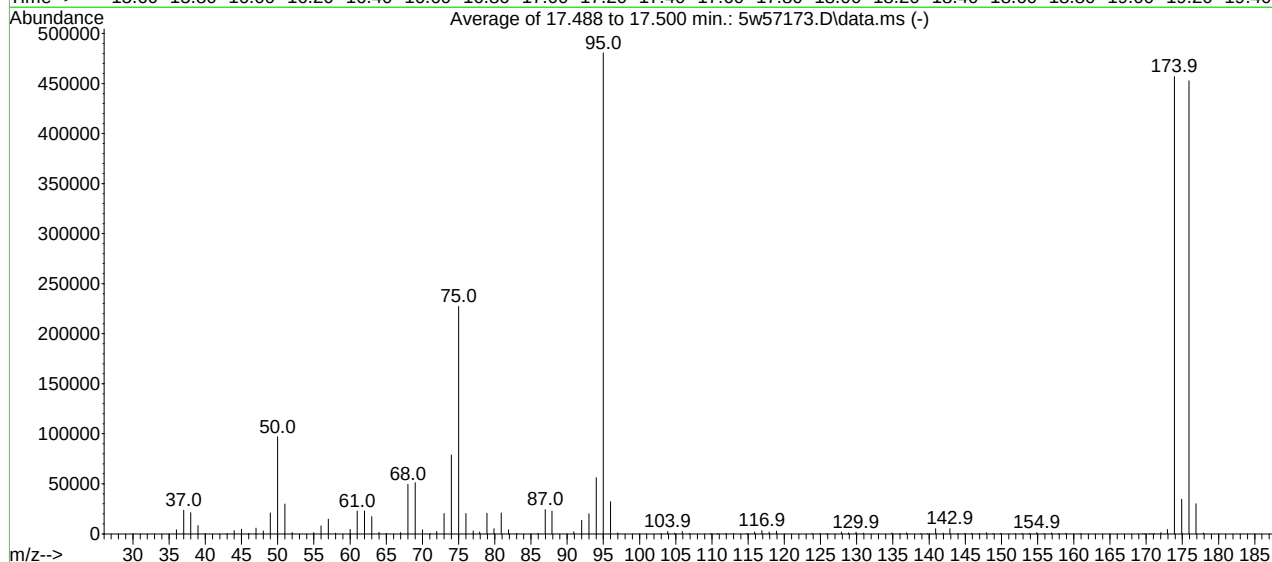
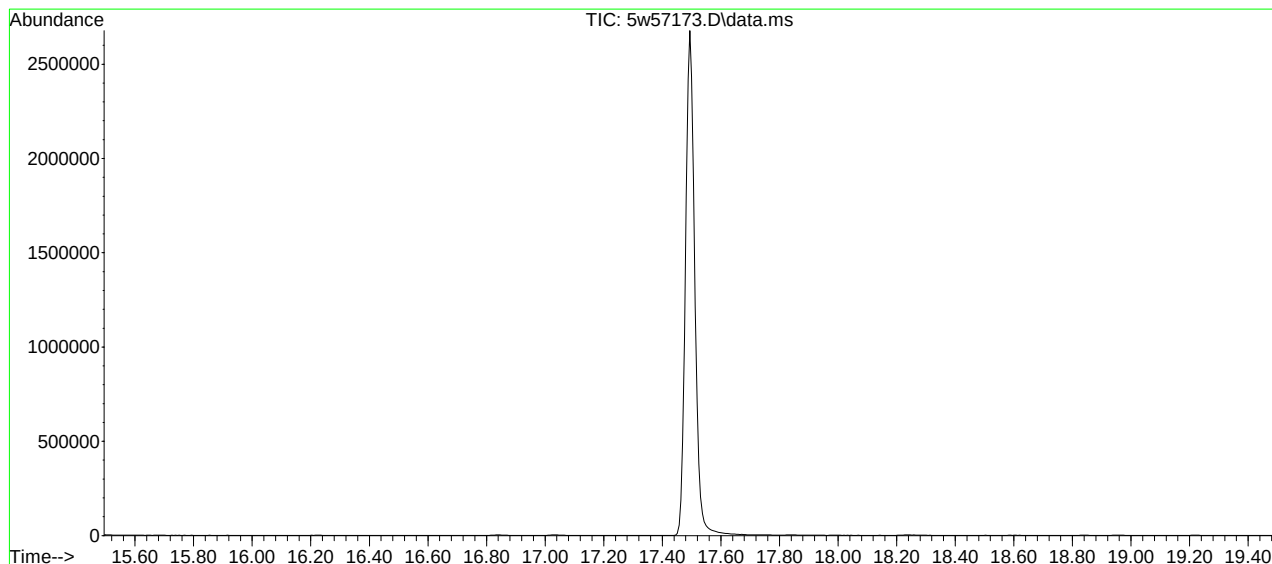
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.85	444	173.00	4769				
153.85	367	173.90	521835				
154.90	1407	174.90	40131				
155.85	164	175.90	523861				
156.90	1055	176.90	35120				
158.90	642	177.90	1011				
160.85	576						
170.30	76						
170.70	96						
171.00	212						
172.00	636						

BFB

Data File : X:\Dayton VOA GCMS\...\025\V5W2194\5w57173.D Vial: 1
Acq On : 4 Mar 2025 4:43 pm Operator: thomash
Sample : bfb Inst : GCMS5W
Misc : MS89870,V5W2194,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2187.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2354, 2355, 2356; Background Corrected with Scan 2344

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.2	97091	PASS
75	95	30	66	47.3	227435	PASS
95	95	100	100	100.0	480661	PASS
96	95	5	9	6.7	32085	PASS
173	174	0.00	2	0.9	4224	PASS
174	95	50	120	95.1	456939	PASS
175	174	4	9	7.6	34733	PASS
176	174	93	101	99.1	452629	PASS
177	176	5	9	6.7	30200	PASS

Average of 17.488 to 17.500 min.: 5w57173.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	4210	49.00	20795	63.00	17259	75.00	227435
37.00	23587	50.00	97091	64.00	1571	76.00	20397
38.00	21179	51.00	29939	65.00	419	77.00	2849
39.00	8248	52.00	1275	67.00	1252	77.90	1935
39.95	279	55.00	1407	68.00	49325	78.90	20509
43.00	177	56.00	8096	69.00	51227	79.90	5272
44.00	3235	57.00	14719	70.00	3967	80.90	20827
45.00	4730	58.00	646	71.10	73	81.90	4223
46.00	418	60.00	4375	72.00	2487	83.00	391
47.00	5872	61.00	22776	73.00	20453	85.95	498
48.00	3000	62.00	22875	74.00	78875	86.95	24187

Average of 17.488 to 17.500 min.: 5w57173.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.90	22725	105.90	2396	123.85	306	139.80	208
90.90	2245	106.90	556	124.90	70	140.10	101
92.00	13499	109.85	306	125.90	84	140.90	5173
93.00	19909	110.80	542	127.90	1911	141.95	604
94.00	56245	111.95	376	128.85	868	142.90	5237
95.00	480661	112.95	564	129.90	1927	143.95	338
96.00	32085	114.85	550	130.90	738	144.95	444
97.00	973	115.90	1910	134.85	917	145.90	739
102.95	162	116.90	3340	135.90	139	146.90	374
103.90	2496	117.90	1921	136.90	875	147.90	1221
104.85	741	118.90	2593	138.85	143	148.85	376

Average of 17.488 to 17.500 min.: 5w57173.D\data.ms

bfb

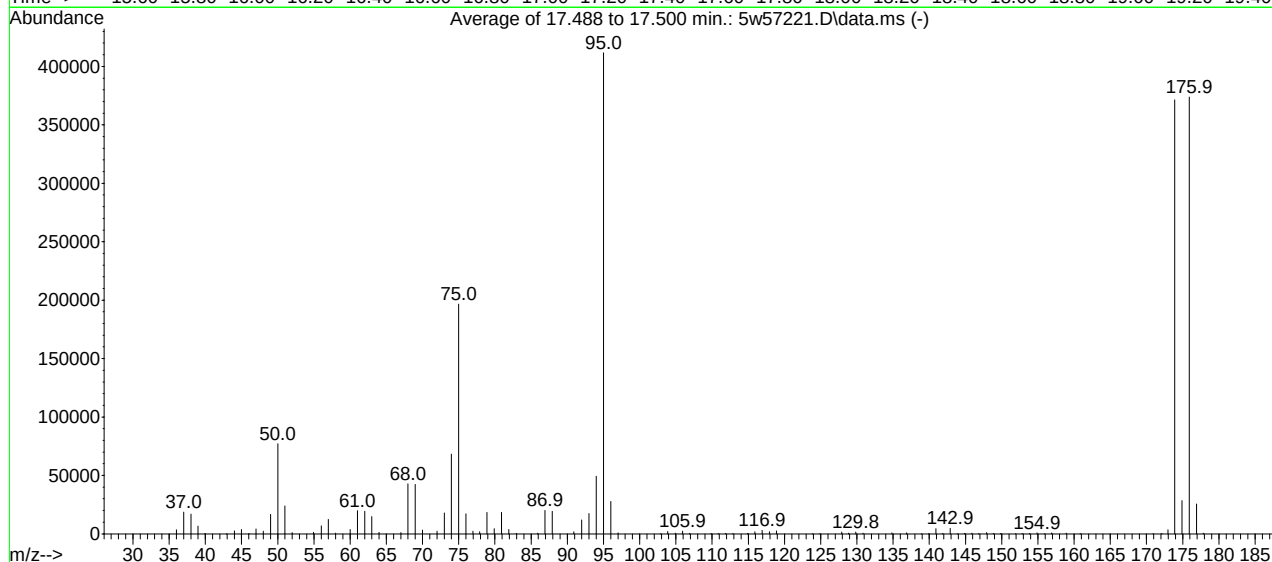
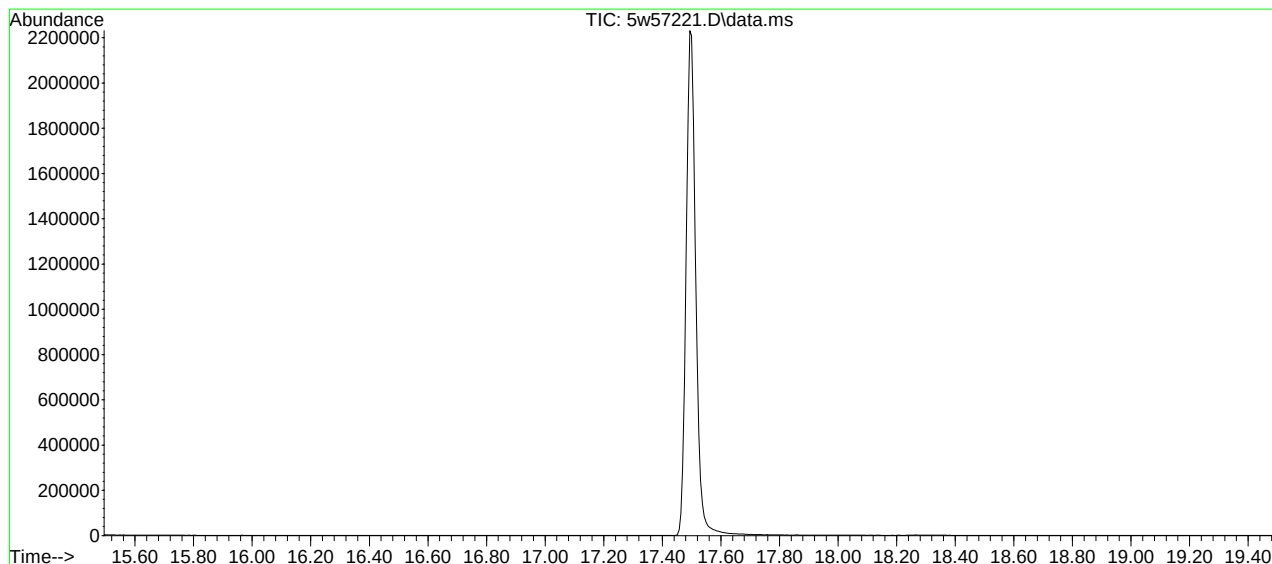
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
149.85	550	169.75	140				
151.90	169	170.50	86				
152.85	353	170.80	91				
153.85	320	171.15	234				
154.90	1312	172.05	1341				
155.90	188	172.95	4224				
156.90	867	173.90	456939				
157.90	90	174.90	34733				
158.90	579	175.90	452629				
160.90	538	176.90	30200				
169.50	69	177.90	877				

BFB

Data File : X:\Dayton VOA GCMS\k...725\v5w2196\5w57221.D Vial: 1
Acq On : 6 Mar 2025 12:27 pm Operator: thomash
Sample : bfb Inst : GCMS5W
Misc : MS89870,V5W2196,,,,,1 Multiplr: 1.00
MS Integration Params: RTEINT1.P

Method : C:\msdchem\1\methods\M5w2187.M (RTE Integrator)
Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um



AutoFind: Scans 2354, 2355, 2356; Background Corrected with Scan 2345

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.7	77077	PASS
75	95	30	66	47.8	196651	PASS
95	95	100	100	100.0	411648	PASS
96	95	5	9	6.8	27797	PASS
173	174	0.00	2	0.9	3426	PASS
174	95	50	120	90.2	371349	PASS
175	174	4	9	7.6	28387	PASS
176	174	93	101	100.6	373739	PASS
177	176	5	9	6.8	25528	PASS

Average of 17.488 to 17.500 min.: 5w57221.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	3428	49.00	16791	63.00	14817	76.95	2375
37.00	18499	50.00	77077	64.00	1398	77.90	1930
38.00	16818	51.00	23792	67.00	1063	78.90	18421
39.00	6569	52.00	1014	68.00	42912	79.90	4505
39.95	275	54.95	1227	69.00	42352	80.90	18373
42.95	162	56.00	6910	70.00	3175	81.90	3769
44.00	2637	57.00	12365	72.00	2177	82.95	308
45.00	3645	58.00	498	73.00	17813	85.90	531
46.05	377	60.00	3837	74.00	68229	86.90	19992
47.00	4203	61.00	19704	75.00	196651	87.90	19203
48.00	2302	62.00	19293	76.00	17139	90.90	1837

Average of 17.488 to 17.500 min.: 5w57221.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
92.00	11966	109.85	286	127.90	1638	143.85	252
93.00	17388	110.85	472	128.85	721	144.85	365
94.00	49256	111.85	322	129.85	1672	145.85	573
95.00	411648	112.90	420	130.85	639	146.85	264
96.00	27797	114.90	454	134.85	806	147.90	1086
97.00	771	115.90	1780	136.85	846	148.85	314
102.85	240	116.90	2907	138.90	73	149.85	369
103.85	2117	117.90	1851	139.90	252	151.90	82
104.90	686	118.90	2487	140.90	4414	152.85	270
105.90	2248	123.85	240	141.85	474	153.85	303
106.90	378	124.90	68	142.90	4631	154.90	944

Average of 17.488 to 17.500 min.: 5w57221.D\data.ms

bfb

Modified:subtracted

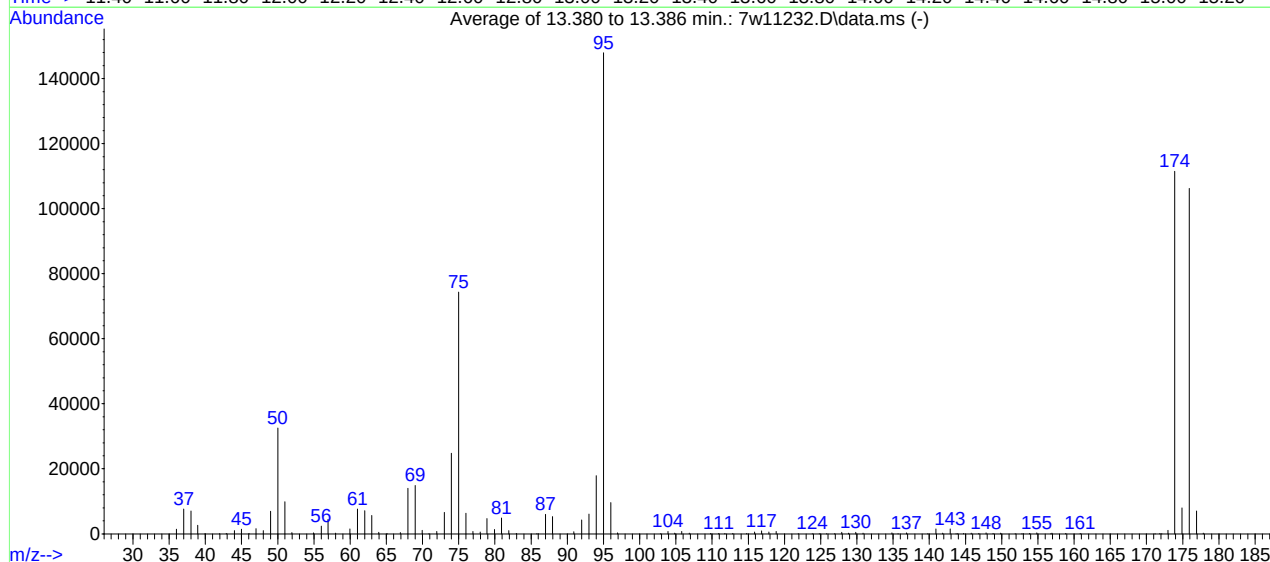
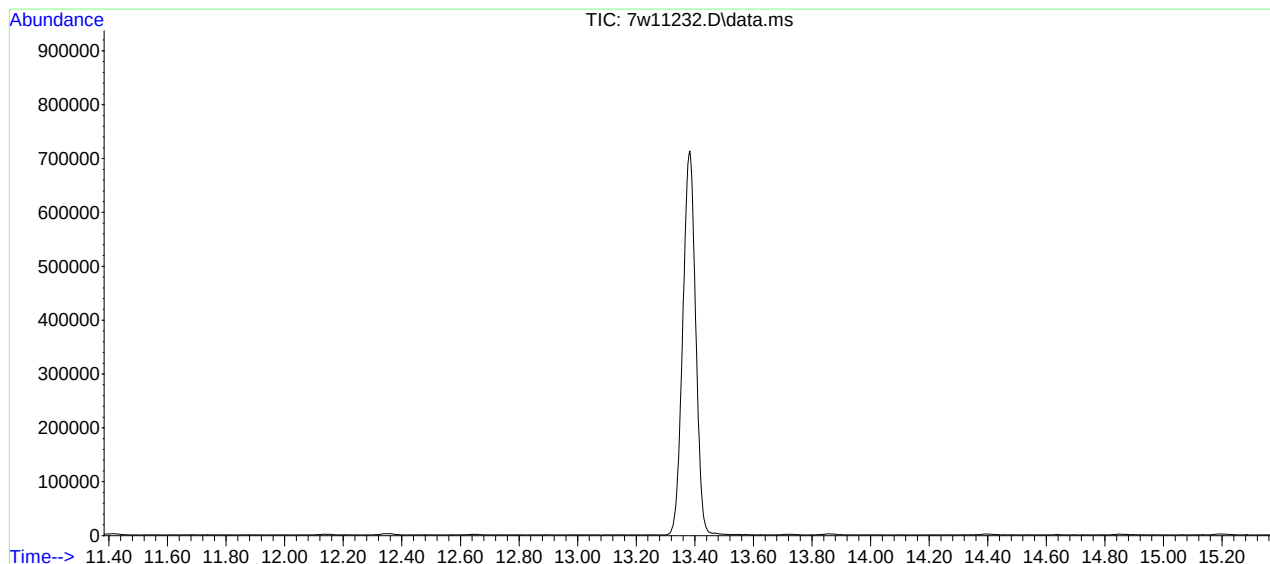
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.90	67	177.85	659				
156.90	749						
158.90	514						
160.85	471						
170.90	97						
172.10	274						
172.95	3426						
173.90	371349						
174.90	28387						
175.90	373739						
176.90	25528						

BFB

Data File : C:\msdchem\1\data\7w\7w11232.D
Acq On : 28 Dec 2024 8:40 am
Sample : bfb
Misc : MS74014,v7w405,,,,,1
MS Integration Params: rteint.p

Vial: 2
Operator: benk
Inst : MS7W
Multiplr: 1.00

Method : C:\msdchem\1\methods\M7Wbfb.M (RTE Integrator)
Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4134, 4135, 4136; Background Corrected with Scan 4106

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.0	32515	PASS
75	95	30	66	50.3	74333	PASS
95	95	100	100	100.0	147925	PASS
96	95	5	9	6.5	9647	PASS
173	174	0.00	2	1.0	1064	PASS
174	95	50	120	75.4	111515	PASS
175	174	4	9	7.1	7970	PASS
176	174	93	101	95.3	106229	PASS
177	176	5	9	6.6	7045	PASS

Average of 13.380 to 13.386 min.: 7w11232.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1402	48.00	1003	62.00	7132	74.00	24797
37.00	7618	49.00	6981	63.00	5659	75.00	74333
38.00	7021	50.00	32515	63.95	501	76.00	6343
38.95	2652	51.00	9850	65.10	21	76.95	767
39.95	34	51.95	394	66.95	355	77.95	553
41.95	51	54.95	341	68.00	14030	78.90	4693
42.90	121	56.00	2407	69.00	14907	79.95	1349
44.00	960	56.95	4434	69.95	1121	80.90	4870
45.00	1405	58.00	213	70.90	64	81.90	1038
46.05	107	59.95	1473	71.95	697	82.95	148
47.00	1628	61.00	7603	73.00	6600	85.80	39

Average of 13.380 to 13.386 min.: 7w11232.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.00	47	103.90	740	117.85	530	134.85	277
87.00	5962	104.85	212	118.85	720	135.70	37
87.95	5322	105.80	715	121.90	17	136.85	295
90.90	618	106.85	200	123.85	67	139.80	94
92.00	4261	109.80	117	124.80	67	140.90	1504
93.00	6046	110.90	151	125.80	39	141.85	239
94.00	17907	111.75	118	126.90	18	142.90	1536
95.00	147925	112.85	148	127.90	473	143.70	19
96.00	9647	114.80	171	128.85	243	143.90	76
96.95	279	115.85	570	129.85	477	144.75	129
102.85	95	116.85	884	130.85	240	145.80	187

Average of 13.380 to 13.386 min.: 7w11232.D\data.ms

bfb

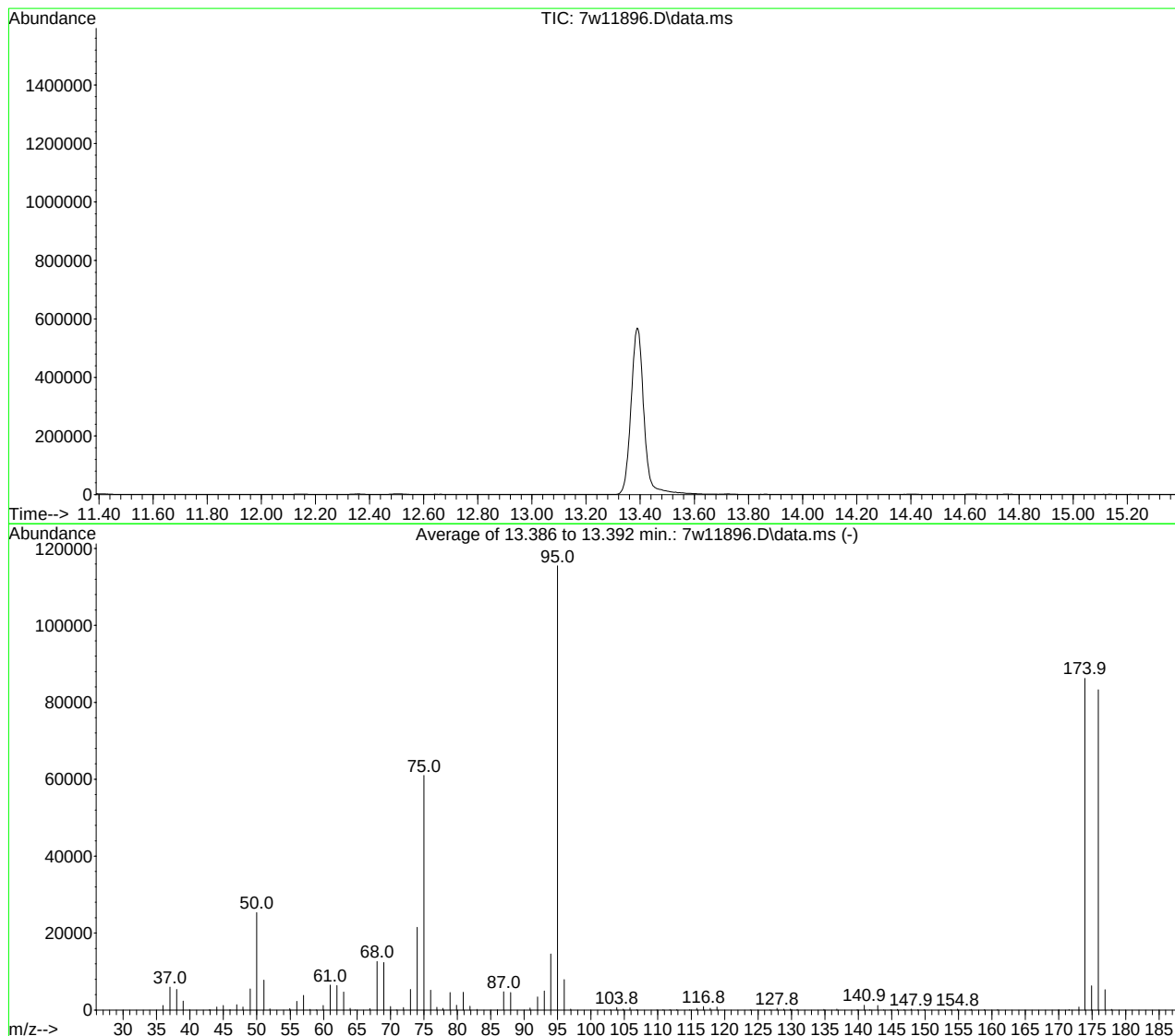
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
146.85	96	158.85	148				
147.85	305	160.85	155				
148.80	105	171.20	18				
149.85	199	171.85	97				
151.85	46	172.10	38				
152.80	64	172.95	1064				
153.00	25	173.90	111515				
153.85	111	174.90	7970				
154.85	351	175.90	106229				
156.80	83	176.90	7045				
156.95	193	177.85	185				

BFB

Data File : X:\Dayton VOA GCMS\k...2025\V7W425\7w11896.D Vial: 6
Acq On : 18 Jan 2025 10:23 pm Operator: benk
Sample : bfb Inst : MS7W
Misc : MS88797,v7w425,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W405.M (RTE Integrator)
Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4136, 4137, 4138; Background Corrected with Scan 4108

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.0	25363	PASS
75	95	30	66	52.8	60997	PASS
95	95	100	100	100.0	115475	PASS
96	95	5	9	6.9	7940	PASS
173	174	0.00	2	0.9	770	PASS
174	95	50	120	74.6	86200	PASS
175	174	4	9	7.3	6285	PASS
176	174	93	101	96.6	83296	PASS
177	176	5	9	6.4	5310	PASS

Average of 13.386 to 13.392 min.: 7w11896.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	1179	47.95	798	61.00	6483	73.00	5357
37.00	5963	49.00	5482	62.00	6387	74.00	21517
38.00	5344	50.00	25363	63.00	4660	75.00	60997
39.00	2341	51.05	7780	63.95	408	76.00	5116
39.95	21	51.95	335	64.70	17	76.95	691
42.90	17	54.95	344	66.90	370	77.85	455
43.05	44	56.00	2274	68.00	12605	78.90	4529
44.00	760	57.00	3806	69.00	12375	79.90	1273
45.00	1169	57.95	180	70.00	885	80.90	4639
46.00	97	58.90	18	70.90	24	81.90	997
47.00	1361	59.95	1161	71.95	623	82.95	150

Average of 13.386 to 13.392 min.: 7w11896.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
86.00	104	103.85	648	117.85	437	139.85	78
86.95	4740	104.85	220	118.85	761	140.90	1253
88.00	4528	105.85	605	123.85	48	141.75	133
90.90	522	106.85	92	126.80	18	142.90	1210
92.00	3403	109.85	47	127.85	448	143.80	26
93.00	4957	110.80	116	128.85	237	144.85	129
94.00	14549	111.80	95	129.80	241	145.85	170
95.00	115475	112.85	126	130.00	156	146.85	75
96.00	7940	114.80	125	130.85	146	147.90	255
96.95	230	115.85	463	134.85	173	148.90	43
102.90	17	116.85	895	136.80	258	149.85	104

Average of 13.386 to 13.392 min.: 7w11896.D\data.ms

bfb

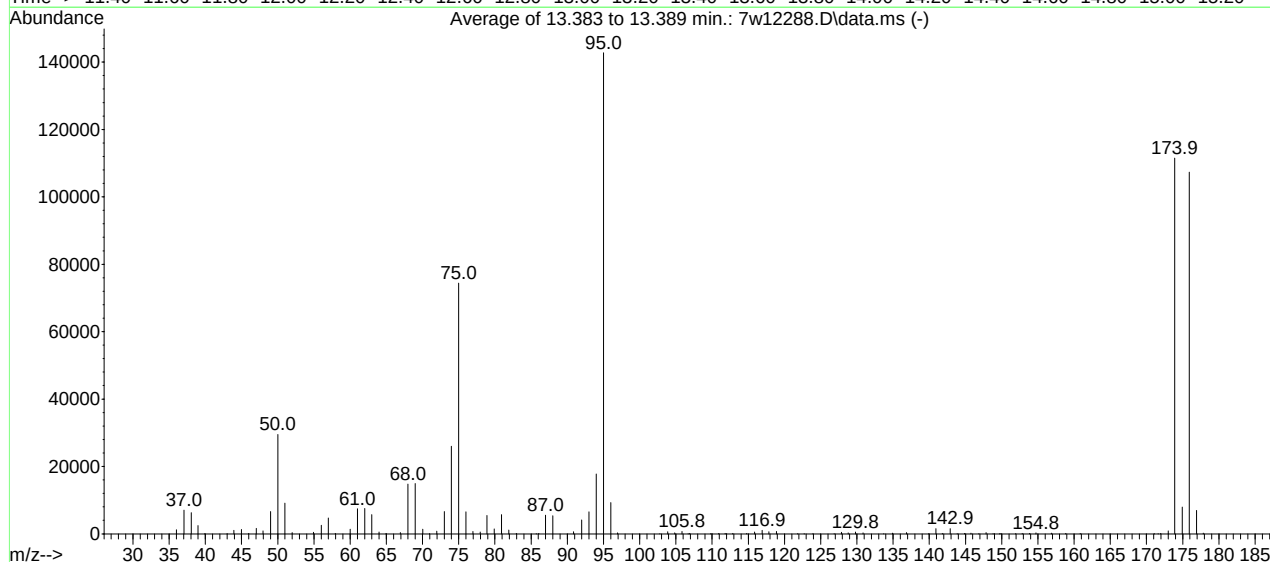
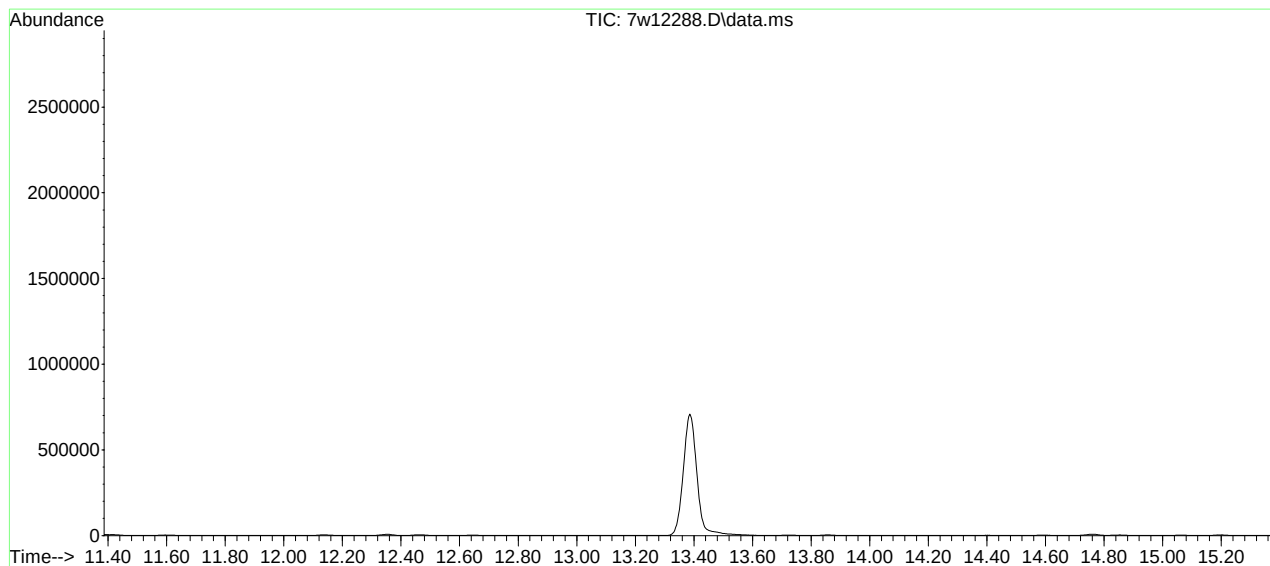
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
152.90	74	174.90	6285				
153.85	73	175.90	83296				
154.85	245	176.90	5310				
156.70	54	177.90	140				
156.90	156						
158.85	121						
160.85	100						
170.00	17						
171.55	105						
173.00	770						
173.90	86200						

BFB

Data File : X:\Dayton VOA GCMS\g...2025\7W437\7w12288.D Vial: 1
Acq On : 31 Jan 2025 10:20 am Operator: williamc
Sample : bfb Inst : MS7W
Misc : MS89099,v7w437,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W405.M (RTE Integrator)
Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4135, 4136, 4137; Background Corrected with Scan 4106

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.7	29480	PASS
75	95	30	66	52.1	74395	PASS
95	95	100	100	100.0	142741	PASS
96	95	5	9	6.5	9270	PASS
173	174	0.00	2	0.8	877	PASS
174	95	50	120	78.1	111528	PASS
175	174	4	9	7.1	7966	PASS
176	174	93	101	96.2	107323	PASS
177	176	5	9	6.5	6937	PASS

Average of 13.383 to 13.389 min.: 7w12288.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1211	49.00	6608	63.00	5692	75.00	74395
37.05	7054	50.00	29480	64.00	545	76.00	6538
38.05	6304	51.00	9080	64.95	99	76.95	739
39.00	2451	52.00	385	66.95	413	77.95	566
39.90	38	54.95	471	68.00	14769	78.90	5488
43.00	48	56.00	2557	69.00	14945	79.90	1440
43.95	1028	57.00	4715	70.05	1357	80.90	5683
45.00	1324	57.95	137	70.95	65	81.90	1140
46.00	108	60.00	1409	71.95	826	82.95	130
47.05	1607	61.00	7416	73.00	6652	85.70	34
47.95	864	62.00	7500	74.00	25968	86.05	124

Average of 13.383 to 13.389 min.: 7w12288.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	5552	104.85	260	115.85	573	130.85	268
88.00	5328	105.85	684	116.90	1008	133.70	21
90.85	640	106.70	72	117.85	601	134.90	252
92.00	4116	106.90	93	118.90	746	136.85	338
93.00	6542	109.80	58	121.80	17	139.90	69
94.00	17765	110.00	31	122.70	21	140.90	1533
95.00	142741	110.90	171	123.90	58	141.80	174
96.00	9270	111.80	89	126.85	44	142.90	1545
96.95	289	112.00	32	127.85	470	143.85	82
102.80	83	112.85	129	128.80	302	144.85	127
103.85	644	114.80	139	129.80	537	145.75	222

Average of 13.383 to 13.389 min.: 7w12288.D\data.ms

bfb

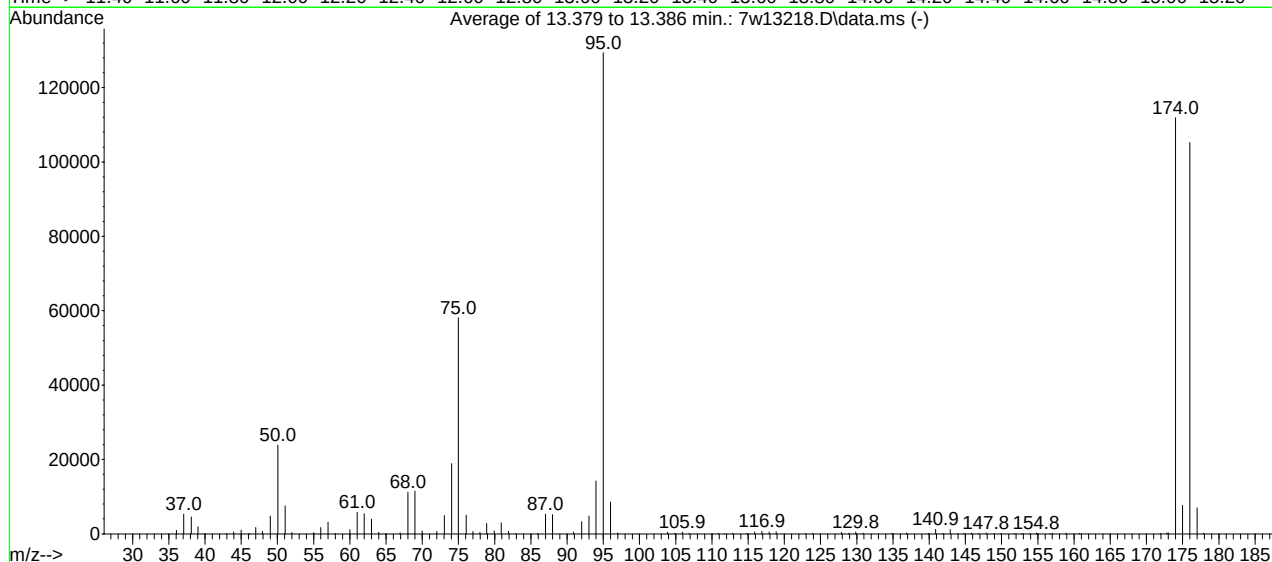
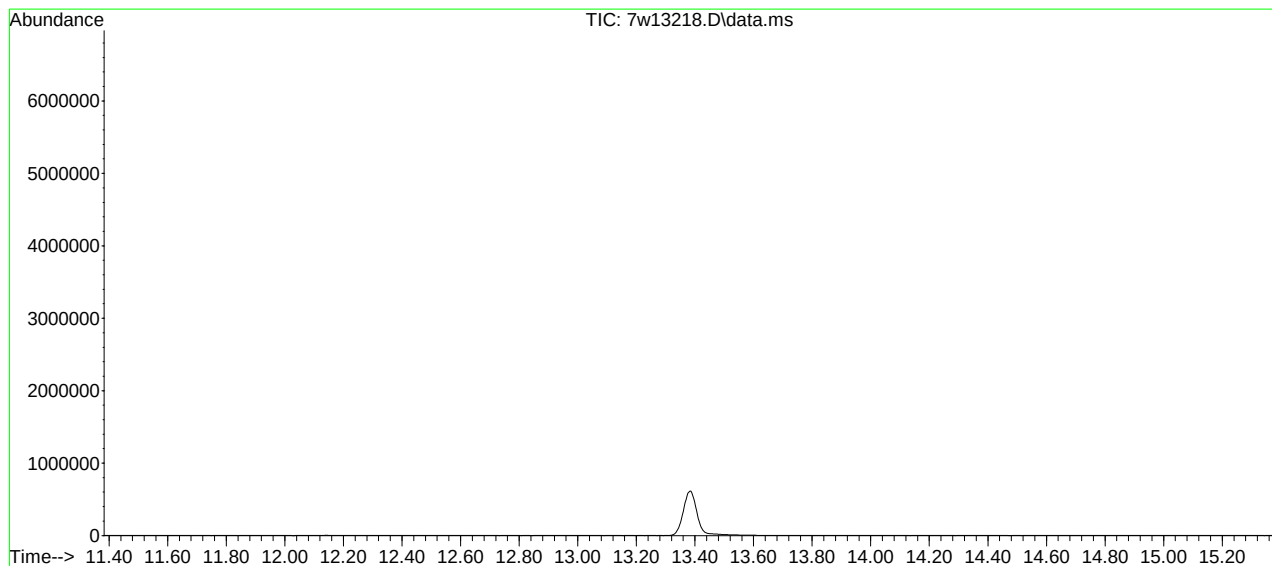
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
146.85	67	158.85	159				
147.85	339	160.85	168				
148.80	66	171.10	55				
149.00	45	171.60	43				
149.70	29	171.95	108				
149.90	107	173.00	877				
151.90	17	173.90	111528				
152.85	116	174.95	7966				
153.85	89	175.90	107323				
154.75	292	176.90	6937				
156.85	210	177.85	194				

BFB

Data File : X:\Dayton VOA GCMS\...\2025\7W465\7w13218.D Vial: 2
Acq On : 6 Mar 2025 11:52 am Operator: williamc
Sample : bfb Inst : MS7W
Misc : MS89682,v7w465,,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\methods\M7W405.M (RTE Integrator)
Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um



AutoFind: Scans 4134, 4135, 4136; Background Corrected with Scan 4106

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.5	23883	PASS
75	95	30	66	44.9	58043	PASS
95	95	100	100	100.0	129339	PASS
96	95	5	9	6.6	8554	PASS
173	174	0.00	2	0.3	286	PASS
174	95	50	120	86.5	111891	PASS
175	174	4	9	6.8	7616	PASS
176	174	93	101	94.1	105243	PASS
177	176	5	9	6.6	6954	PASS

Average of 13.379 to 13.386 min.: 7w13218.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	969	49.00	4775	63.00	3976	76.05	5003
37.05	5342	50.05	23883	64.00	387	77.00	636
38.10	4560	51.05	7539	65.00	23	77.95	446
39.05	1941	52.00	311	66.95	262	78.90	2857
39.95	47	55.00	331	68.00	11179	79.95	813
43.00	67	56.00	1681	69.00	11513	80.90	3012
43.95	527	57.00	3097	70.00	805	81.90	670
45.00	1059	58.00	157	72.00	626	82.90	60
46.10	88	60.00	1083	73.05	4965	85.95	130
47.00	1694	61.00	5737	74.05	18909	87.00	5326
47.95	675	62.00	5420	75.00	58043	88.00	5201

Average of 13.379 to 13.386 min.: 7w13218.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.90	459	110.00	24	127.90	441	144.80	119
92.00	3257	110.85	96	128.90	164	145.85	160
93.00	4820	111.75	61	129.85	459	146.85	44
94.00	14236	112.85	89	130.85	181	147.85	250
95.00	129339	114.85	130	134.90	199	148.95	88
96.00	8554	115.90	470	136.85	226	149.90	117
97.00	265	116.90	687	139.90	87	151.80	73
103.85	404	117.90	465	140.90	1184	152.75	48
104.85	132	118.85	556	141.90	110	153.00	54
105.90	491	122.95	54	142.90	1167	153.90	75
106.85	101	123.90	90	143.90	33	154.80	222

Average of 13.379 to 13.386 min.: 7w13218.D\data.ms

bfb

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.00	118	176.00	105243				
156.70	54	177.00	6954				
157.00	136	177.85	197				
158.90	201						
160.75	86						
161.00	65						
171.95	153						
172.80	236						
173.00	286						
174.00	111891						
175.00	7616						

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w55994.D
Acq On : 9 Jan 2025 12:36 am
Operator : thomash
Sample : ic2144-0.04
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:08:49 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.644	128	443022	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.816	114	1966418	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.334	82	923193	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.644	128	443463	10.00	PPBV	# 0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	17.586	95	1175874	10.52	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	105.20%

Target Compounds					Qvalue
3) FREON 152A	3.521	65	1853	0.06	PPBV 94
4) CHLORODIFLUOROMETHANE	3.552	67	447	0.03	PPBV # 42
5) CHLOROTRIFLUOROETHENE	3.582	116	2940	0.04	PPBV 98
6) DICHLORODIFLUOROMETHANE	3.631	85	5942	0.04	PPBV 97
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.735	65	6717	0.05	PPBV # 83
9) FREON 114	3.815	85	8570	0.04	PPBV 97
10) CHLOROMETHANE	3.754	52	981	0.05	PPBV # 37
11) VINYL CHLORIDE	3.906	62	2869	0.04	PPBV 88
12) 1,3-BUTADIENE	4.004	54	2362	0.05	PPBV # 75
13) n-BUTANE	4.041	43	5303	0.06	PPBV # 90
14) BROMOMETHANE	4.206	94	3514	0.05	PPBV 78
15) CHLOROETHANE	4.329	64	1493	0.05	PPBV # 29
16) DICHLOROFLUOROMETHANE	4.396	67	6747	0.05	PPBV # 65
19) FREON 123	4.708	83	7440	0.05	PPBV # 71
20) FREON 123A	4.751	117	4122	0.05	PPBV # 70
21) TRICHLOROFLUOROMETHANE	4.916	101	7933	0.05	PPBV 99
24) PENTANE	5.216	42	2198	0.06	PPBV 90
25) IODOMETHANE	5.393	142	5180	0.04	PPBV 99
26) 1,1-DICHLOROETHYLENE	5.454	96	2020	0.05	PPBV 81
27) CARBON DISULFIDE	5.827	76	4602	0.04	PPBV 57
29) BROMOETHENE	4.598	106	3163	0.05	PPBV # 85
30) ACRYLONITRILE	5.210	52	1055	0.05	PPBV # 76
31) METHYLENE CHLORIDE	5.577	84	2150	0.06	PPBV 95
32) 3-CHLOROPROPENE	5.674	76	536	0.03	PPBV # 1
33) FREON 113	5.797	151	3173	0.04	PPBV 93
34) TRANS-1,2-DICHLOROETHYLENE	6.433	96	1776	0.04	PPBV 84
35) TERTIARY BUTYL ALCOHOL	5.626	59	2516	0.03	PPBV 75
36) METHYL TERTIARY BUTYL ALCOHOL	6.770	73	3858	0.04	PPBV 89
38) HEXANE	7.681	57	2238	0.04	PPBV # 78
40) 1,1-DICHLOROETHANE	6.623	63	3198	0.04	PPBV 92
42) cis-1,2-DICHLOROETHYLENE	7.485	96	2583	0.06	PPBV # 63
46) CHLOROFORM	7.791	83	4452	0.05	PPBV 91
47) 2,4-DIMETHYLPENTANE	8.648	57	2367	0.03	PPBV # 79
48) 1,1,1-TRICHLOROETHANE	8.856	97	4078	0.04	PPBV 89
49) CARBON TETRACHLORIDE	9.547	117	4441	0.04	PPBV 96
50) 1,2-DICHLOROETHANE	8.599	62	2140	0.03	PPBV # 88
52) BENZENE	9.388	78	5101	0.04	PPBV 92
53) CYCLOHEXANE	9.682	84	1998	0.04	PPBV 91
54) 2,3-DIMETHYLPENTANE	9.975	71	799	0.03	PPBV # 36
55) TRICHLOROETHYLENE	10.642	95	2695	0.04	PPBV 87
56) 1,2-DICHLOROPROPANE	10.355	63	2118	0.04	PPBV 66
57) DIBROMOMETHANE	10.330	174	3225	0.05	PPBV 99
59) BROMODICHLOROMETHANE	10.593	83	4712	0.04	PPBV 89
60) 2,2,4-TRIMETHYLPENTANE	10.667	57	6773	0.03	PPBV # 89
62) HEPTANE	11.027	43	2162	0.03	PPBV 91
65) cis-1,3-DICHLOROPROPENE	11.743	75	2285	0.03	PPBV 65
66) TOLUENE	12.967	92	3147	0.03	PPBV 95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w55994.D
Acq On : 9 Jan 2025 12:36 am
Operator : thomash
Sample : ic2144-0.04
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:08:49 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
67)	1,3-DICHLOROPROPANE	13.022	76	2387	0.03	PPBV #	73
69)	1,1,2-TRICHLOROETHANE	12.618	83	1687	0.03	PPBV	93
73)	TETRACHLOROETHYLENE	14.472	164	2849	0.04	PPBV	92
74)	DIBROMOCHLOROMETHANE	13.511	129	4116	0.03	PPBV	94
75)	1,2-DIBROMOETHANE	13.854	107	3270	0.04	PPBV #	99
76)	OCTANE	14.331	43	2989	0.03	PPBV	87
77)	1,1,1,2-TETRACHLOROETHANE	15.389	131	3162	0.04	PPBV	98
78)	CHLOROBENZENE	15.414	112	5417	0.04	PPBV #	51
79)	ETHYLBENZENE	15.977	91	6346	0.03	PPBV	95
80)	m,p-XYLENE	16.246	106	4381m	0.06	PPBV	
81)	o-XYLENE	16.913	106	2014	0.03	PPBV #	74
83)	NONANE	17.310	43	2812	0.03	PPBV #	79
84)	BROMOFORM	16.313	173	4056	0.03	PPBV #	91
86)	1,1,2,2-TETRACHLOROETHANE	16.931	83	4847	0.04	PPBV #	93
87)	1,2,3-TRICHLOROPROPANE	17.121	75	3572	0.04	PPBV	92
88)	ISOPROPYLBENZENE	17.824	105	7568	0.03	PPBV	97
89)	BROMOBENZENE	17.928	77	3924	0.04	PPBV	92
91)	n-PROPYLBENZENE	18.662	120	1753	0.03	PPBV #	62
93)	1,3,5-TRIMETHYLBENZENE	19.023	105	5102	0.03	PPBV	96
97)	m-DICHLOROBENZENE	19.843	146	5390	0.03	PPBV	93
99)	p-DICHLOROBENZENE	19.947	146	5339	0.04	PPBV	86
101)	1,2,3-TRIMETHYLBENZENE	20.247	105	5183	0.03	PPBV #	24
103)	o-DICHLOROBENZENE	20.424	146	5189	0.04	PPBV	94
105)	HEXACHLOROETHANE	21.317	117	3402	0.03	PPBV	95
106)	HEXACHLOROBUTADIENE	23.367	225	5243	0.04	PPBV	96
107)	1,2,4-TRICHLOROBENZENE	23.238	180	6027	0.05	PPBV	90
108)	NAPHTHALENE	22.908	128	13009	0.05	PPBV	92

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

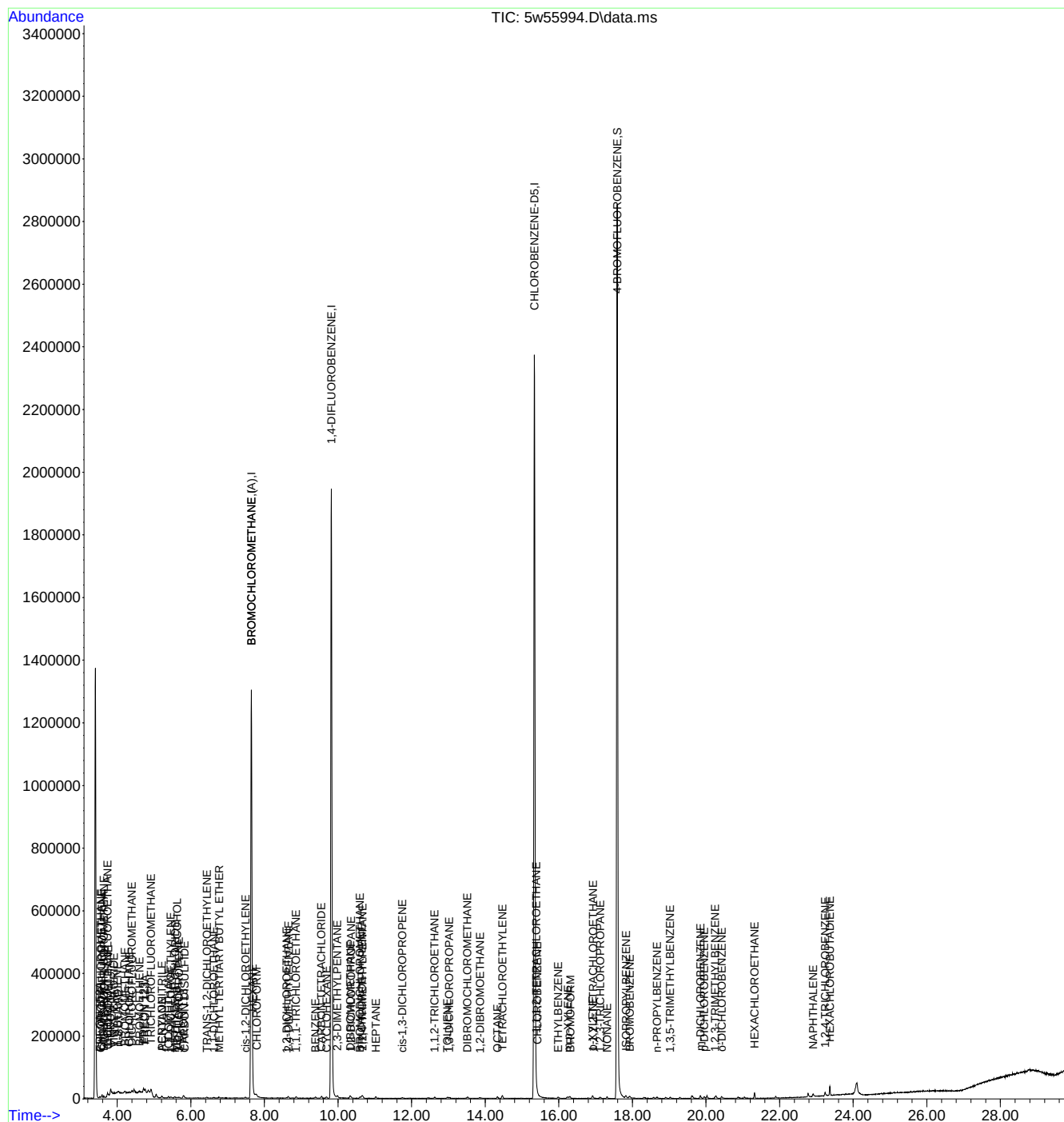
7.7.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w55994.D
Acq On : 9 Jan 2025 12:36 am
Operator : thomash
Sample : ic2144-0.04
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:08:49 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

V5W2144-IC2144

Method:

TO-15

Lab FileID:

5W55994.D

Analyst approved:

01/09/25 17:26 Thomas Hilbig

Injection Time:

01/09/25 00:36

Supervisor approved:

01/09/25 21:50 Kanya Veerawat

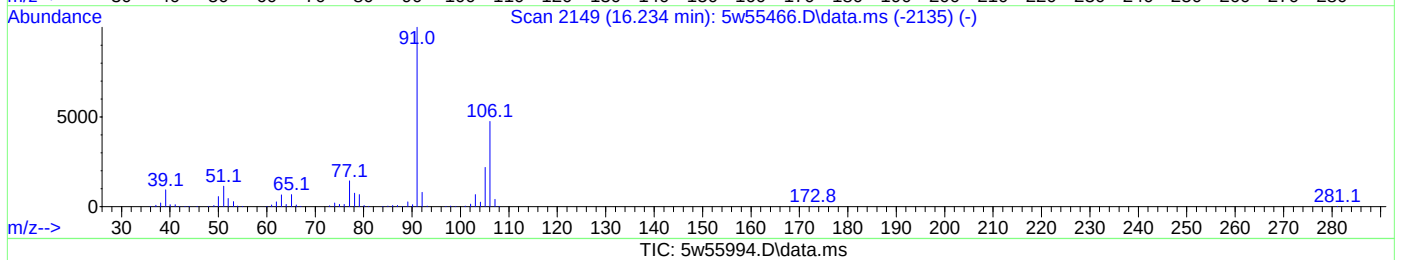
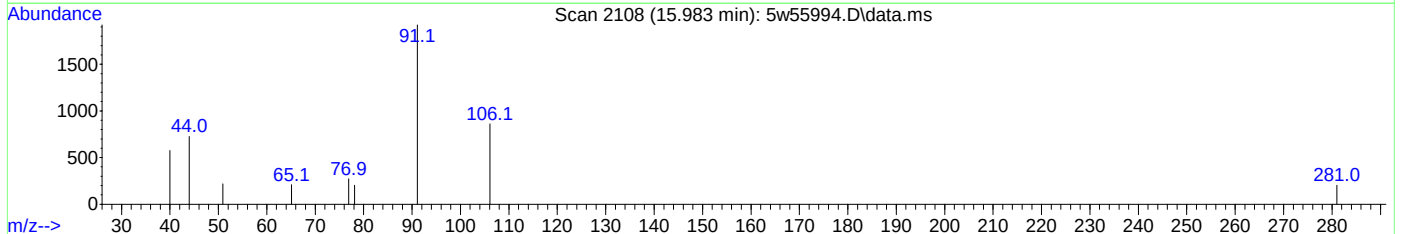
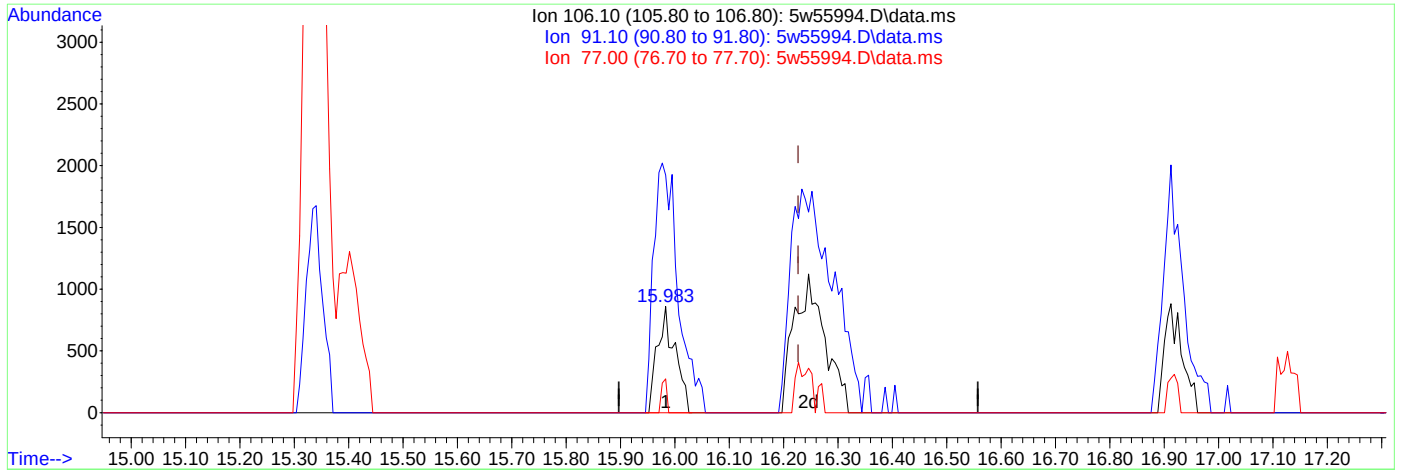
Parameter	CAS	Sig#	R.T. (min.)	Reason
m,p-Xylene			16.25	Missed peak

7.7.1.1
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w55994.D
Acq On : 9 Jan 2025 12:36 am
Operator : thomash
Sample : ic2144-0.04
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 09:31:45 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



(80) m,p-XYLENE

15.983min (-0.245) 0.02PPBV

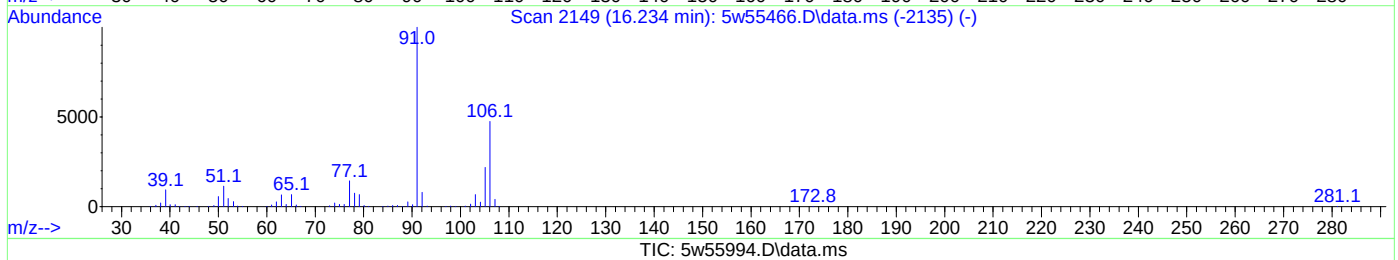
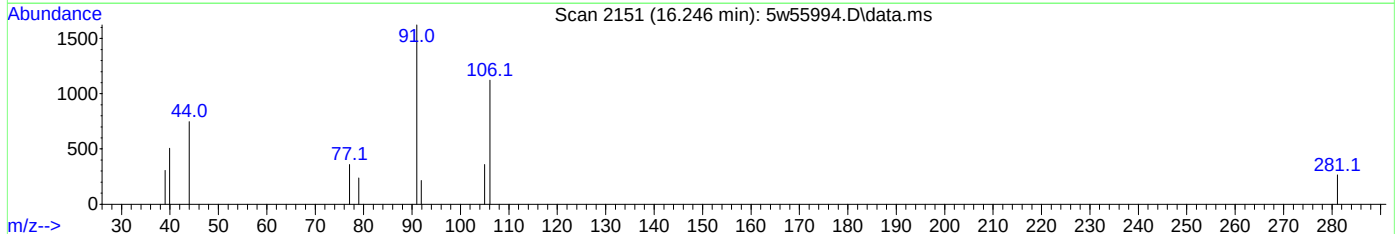
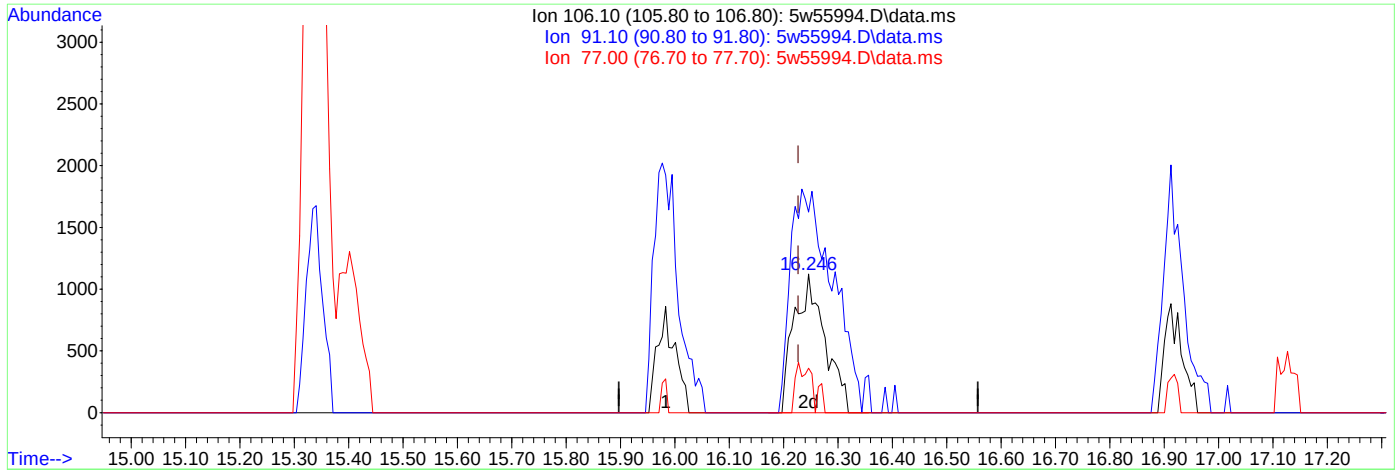
response 1950

Ion	Exp%	Act%
106.10	100	100
91.10	198.70	223.60
77.00	27.90	31.74
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w55994.D
Acq On : 9 Jan 2025 12:36 am
Operator : thomash
Sample : ic2144-0.04
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 09:31:45 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



(80) m,p-XYLENE

16.246min (+0.018) 0.06PPBV m

response 4381

Ion	Exp%	Act%
106.10	100	100
91.10	198.70	144.74#
77.00	27.90	32.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w55995.D
 Acq On : 9 Jan 2025 1:16 am
 Operator : thomash
 Sample : ic2144-0.1
 Misc : MS88386,V5W2144,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 19:01:51 2025
 Quant Method : C:\msdchem\1\methods\M5w2144.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Thu Jan 09 09:18:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.645	128	433255	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.816	114	1918380	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.335	82	901402	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.645	128	433255	10.00	PPBV	# 0.00

System Monitoring Compounds
 85) 4-BROMOFLUOROBENZENE 17.586 95 1152670 10.56 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 105.60%

Target Compounds						Qvalue
3) FREON 152A	3.527	65	3650	0.13	PPBV	91
4) CHLORODIFLUOROMETHANE	3.558	67	1532	0.10	PPBV	61
5) CHLOROTRIFLUOROETHENE	3.582	116	7165	0.10	PPBV	96
6) DICHLORODIFLUOROMETHANE	3.631	85	14944	0.10	PPBV	99
7) PROPYLENE	3.582	41	4514	0.13	PPBV	84
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.735	65	15855	0.11	PPBV	92
9) FREON 114	3.821	85	21716	0.12	PPBV	95
10) CHLOROMETHANE	3.754	52	2244	0.12	PPBV	92
11) VINYL CHLORIDE	3.913	62	7444	0.11	PPBV	94
12) 1,3-BUTADIENE	4.005	54	5295	0.12	PPBV #	71
13) n-BUTANE	4.041	43	11150	0.13	PPBV #	93
14) BROMOMETHANE	4.206	94	8211	0.12	PPBV	89
15) CHLOROETHANE	4.335	64	3509	0.13	PPBV	80
16) DICHLOROFLUOROMETHANE	4.402	67	17356	0.12	PPBV	92
17) ACETONITRILE	4.622	41	5969	0.12	PPBV #	80
19) FREON 123	4.714	83	17789	0.12	PPBV	99
20) FREON 123A	4.751	117	10511	0.12	PPBV	87
21) TRICHLOROFLUOROMETHANE	4.916	101	19530	0.13	PPBV	98
24) PENTANE	5.210	42	5024	0.13	PPBV	91
25) IODOMETHANE	5.393	142	12927	0.10	PPBV	98
26) 1,1-DICHLOROETHYLENE	5.454	96	4487	0.11	PPBV	94
27) CARBON DISULFIDE	5.834	76	12164	0.11	PPBV	76
29) BROMOETHENE	4.592	106	7330	0.11	PPBV	88
30) ACRYLONITRILE	5.204	52	3168	0.14	PPBV	87
31) METHYLENE CHLORIDE	5.565	84	4510	0.12	PPBV	98
32) 3-CHLOROPROPENE	5.675	76	1681	0.09	PPBV #	62
33) FREON 113	5.791	151	7930	0.11	PPBV	98
34) TRANS-1,2-DICHLOROETHYLENE	6.439	96	4415	0.10	PPBV	93
35) TERTIARY BUTYL ALCOHOL	5.607	59	6517	0.09	PPBV	89
36) METHYL TERTIARY BUTYL ETHER	6.751	73	9762	0.09	PPBV	91
37) TETRAHYDROFURAN	8.342	72	997	0.05	PPBV #	40
38) HEXANE	7.687	57	5305	0.09	PPBV	82
40) 1,1-DICHLOROETHANE	6.629	63	7463	0.10	PPBV	98
41) METHYL ETHYL KETONE	7.161	72	1030	0.06	PPBV #	35
42) cis-1,2-DICHLOROETHYLENE	7.479	96	4462	0.10	PPBV	98
43) DIISOPROPYL ETHER	7.742	59	1359	0.08	PPBV #	69
46) CHLOROFORM	7.785	83	10941	0.11	PPBV	93
47) 2,4-DIMETHYLPENTANE	8.648	57	5536	0.08	PPBV	86
48) 1,1,1-TRICHLOROETHANE	8.862	97	10721	0.11	PPBV	99
49) CARBON TETRACHLORIDE	9.553	117	11441	0.10	PPBV	97
50) 1,2-DICHLOROETHANE	8.593	62	6119	0.10	PPBV #	95
52) BENZENE	9.388	78	13309	0.11	PPBV	97
53) CYCLOHEXANE	9.682	84	4623	0.09	PPBV	94
54) 2,3-DIMETHYLPENTANE	9.988	71	2369	0.09	PPBV #	80
55) TRICHLOROETHYLENE	10.642	95	6197	0.10	PPBV	99
56) 1,2-DICHLOROPROPANE	10.361	63	5058	0.10	PPBV	93
57) DIBROMOMETHANE	10.318	174	7095	0.11	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w55995.D
 Acq On : 9 Jan 2025 1:16 am
 Operator : thomash
 Sample : ic2144-0.1
 Misc : MS88386,V5W2144,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 19:01:51 2025

Quant Method : C:\msdchem\1\methods\M5w2144.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Thu Jan 09 09:18:24 2025

Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
59)	BROMODICHLOROMETHANE	10.593	83	11411	0.10	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	10.667	57	17179	0.09	PPBV	96
61)	1,4-DIOXANE	10.777	88	2088	0.07	PPBV #	1
62)	HEPTANE	11.022	43	6061	0.09	PPBV	96
63)	METHYL METHACRYLATE	11.009	69	2564	0.06	PPBV #	1
65)	cis-1,3-DICHLOROPROPENE	11.737	75	6402	0.08	PPBV	87
66)	TOLUENE	12.967	92	7525	0.08	PPBV	94
67)	1,3-DICHLOROPROPANE	13.022	76	6941	0.09	PPBV #	98
68)	trans-1,3-DICHLOROPROPENE	12.435	75	5660	0.07	PPBV	89
69)	1,1,2-TRICHLOROETHANE	12.618	83	5480	0.10	PPBV	91
73)	TETRACHLOROETHYLENE	14.466	164	7210	0.11	PPBV	95
74)	DIBROMOCHLOROMETHANE	13.505	129	11414	0.09	PPBV	95
75)	1,2-DIBROMOETHANE	13.830	107	8657	0.10	PPBV #	98
76)	OCTANE	14.325	43	7208	0.08	PPBV	93
77)	1,1,1,2-TETRACHLOROETHANE	15.383	131	7961	0.10	PPBV	100
78)	CHLOROBENZENE	15.402	112	13954	0.11	PPBV	95
79)	ETHYLBENZENE	15.965	91	16779	0.09	PPBV	95
80)	m,p-XYLENE	16.246	106	11529	0.15	PPBV #	82
81)	o-XYLENE	16.907	106	5508	0.07	PPBV	93
82)	STYRENE	16.778	104	7132	0.06	PPBV	94
83)	NONANE	17.304	43	7111	0.07	PPBV	95
84)	BROMOFORM	16.295	173	10191	0.08	PPBV	98
86)	1,1,2,2-TETRACHLOROETHANE	16.913	83	13778	0.11	PPBV	97
87)	1,2,3-TRICHLOROPROPANE	17.115	75	9506	0.11	PPBV	95
88)	ISOPROPYLBENZENE	17.818	105	19384	0.09	PPBV	96
89)	BROMOBENZENE	17.910	77	10985	0.10	PPBV	91
90)	2-CHLOROTOLUENE	18.565	126	4604	0.08	PPBV	91
91)	n-PROPYLBENZENE	18.656	120	4267	0.07	PPBV	72
92)	4-ETHYLTOLUENE	18.889	105	15753m	0.07	PPBV	
93)	1,3,5-TRIMETHYLBENZENE	19.024	105	13725	0.08	PPBV	97
94)	ALPHA-METHYLSTYRENE	19.274	118	5690	0.06	PPBV	95
95)	tert-BUTYLBENZENE	19.611	134	2934	0.07	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	19.635	105	13508	0.07	PPBV #	31
97)	m-DICHLOROBENZENE	19.831	146	12842	0.08	PPBV	99
99)	p-DICHLOROBENZENE	19.935	146	13807	0.10	PPBV	96
100)	sec-BUTYLBENZENE	20.021	134	3746	0.07	PPBV	92
101)	1,2,3-TRIMETHYLBENZENE	20.241	105	13896	0.07	PPBV #	95
102)	p-ISOPROPYLTOLUENE	20.265	134	4014	0.07	PPBV #	88
103)	o-DICHLOROBENZENE	20.412	146	12791	0.10	PPBV	98
104)	n-BUTYLBENZENE	20.859	134	3516	0.06	PPBV #	75
105)	HEXACHLOROETHANE	21.318	117	9333	0.09	PPBV	97
106)	HEXACHLOROBUTADIENE	23.367	225	11703	0.09	PPBV	97
107)	1,2,4-TRICHLOROBENZENE	23.233	180	11258	0.10	PPBV	94
108)	NAPHTHALENE	22.902	128	21792	0.08	PPBV	94

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

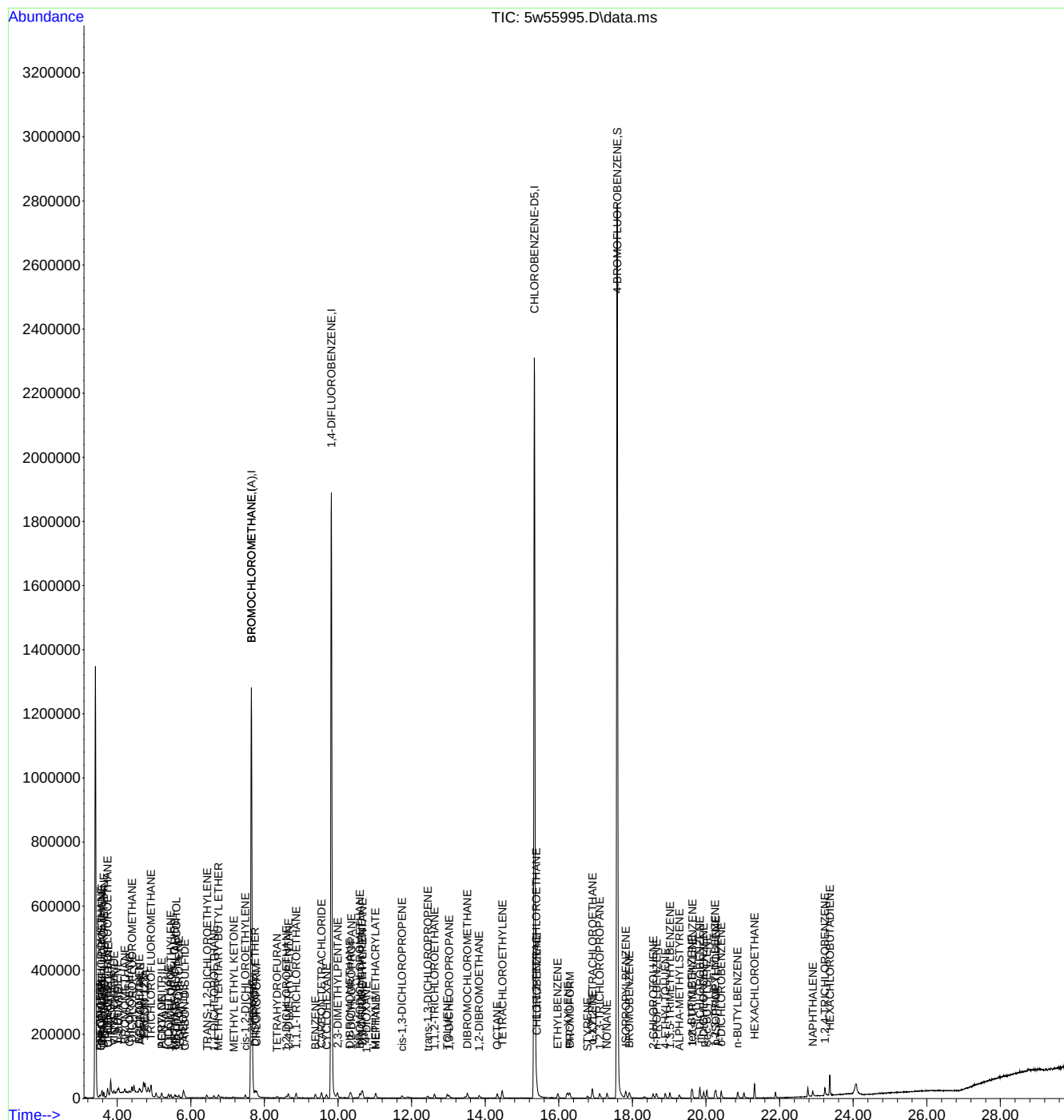
7.7.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w55995.D
Acq On : 9 Jan 2025 1:16 am
Operator : thomash
Sample : ic2144-0.1
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 19:01:51 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



7.7.2

Manual Integration Approval Summary

Sample Number:

V5W2144-IC2144

Method:

TO-15

Lab FileID:

5W55995.D

Analyst approved:

01/09/25 19:21 Thomas Hilbig

Injection Time:

01/09/25 01:16

Supervisor approved:

01/09/25 21:50 Kanya Veerawat

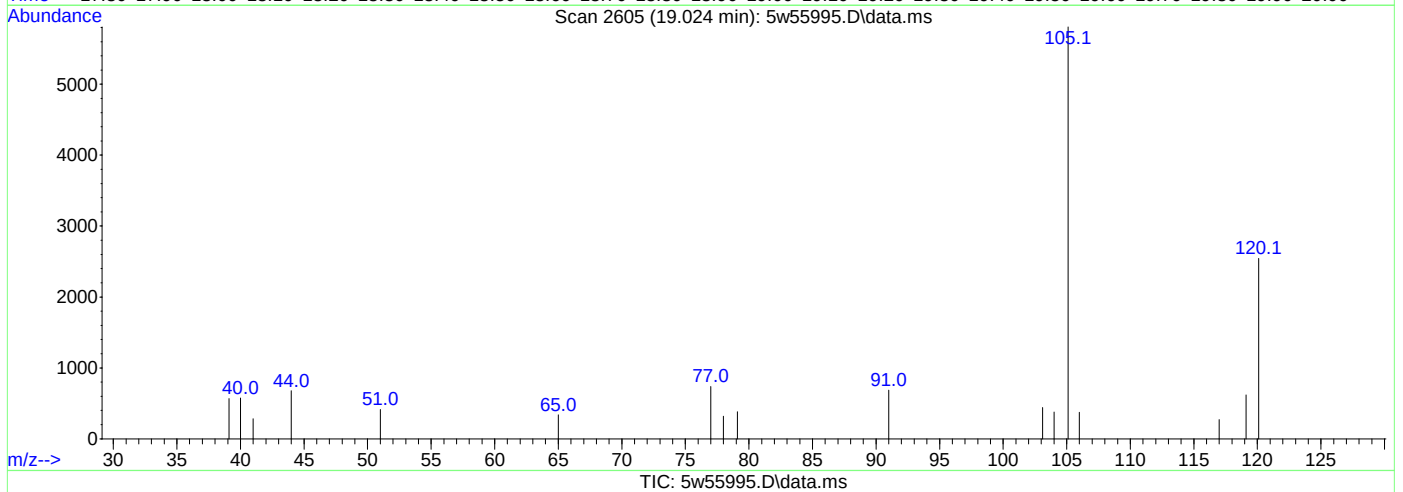
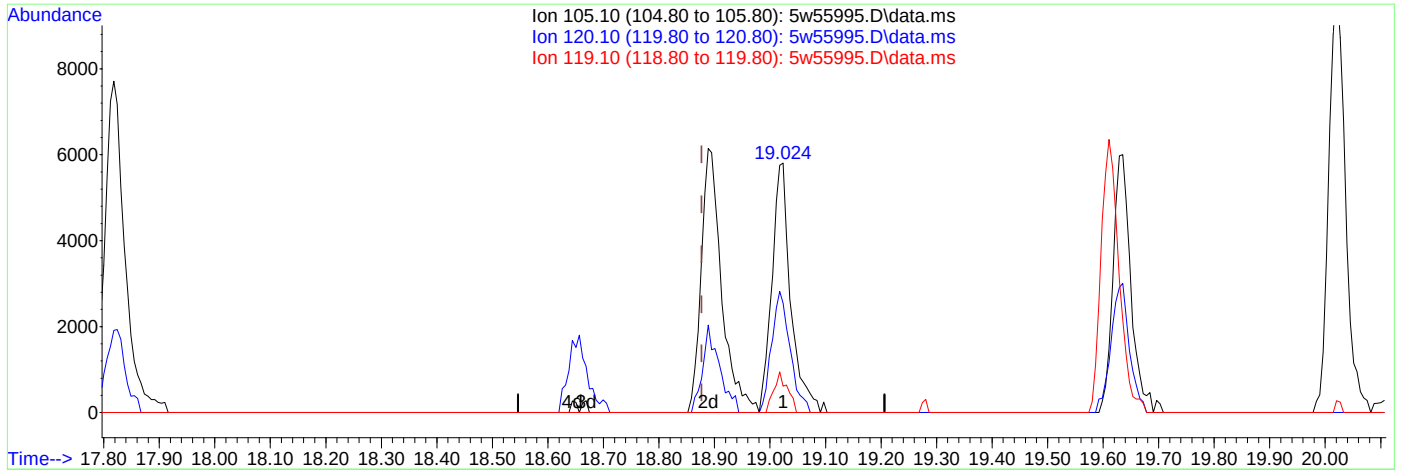
Parameter	CAS	Sig#	R.T. (min.)	Reason
4-Ethyltoluene	622-96-8		18.89	Missed peak

7.7.2.1
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w55995.D
Acq On : 9 Jan 2025 1:16 am
Operator : thomash
Sample : ic2144-0.1
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:08:59 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



(92) 4-ETHYLTOLUENE

19.024min (+0.147) 0.06PPBV

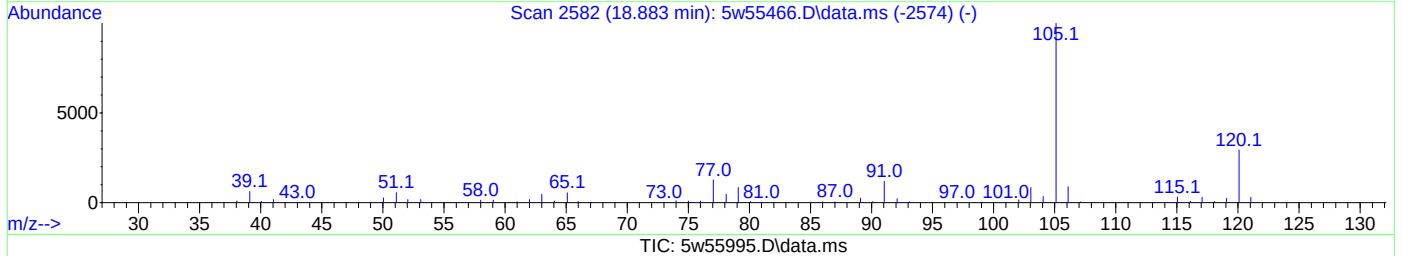
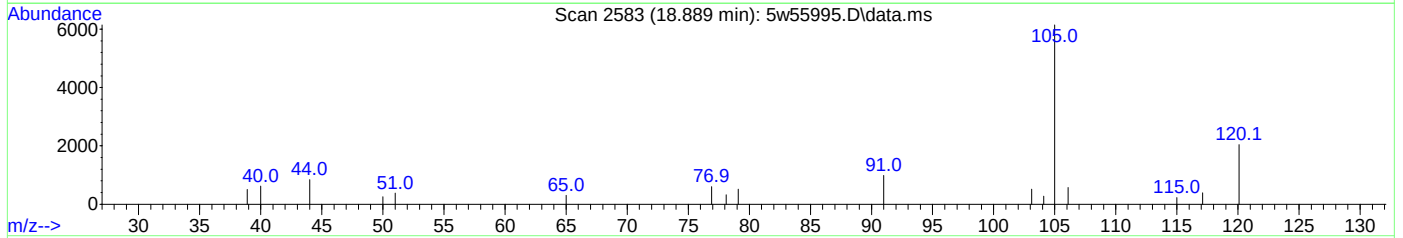
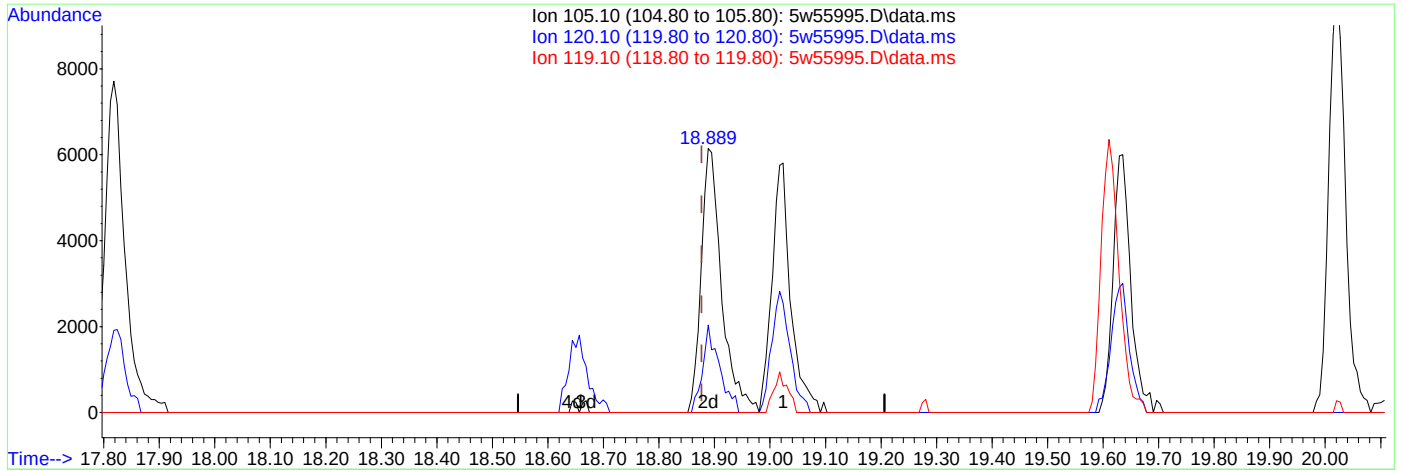
response 13725

Ion	Exp%	Act%
105.10	100	100
120.10	30.00	47.44
119.10	2.30	11.77
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w55995.D
Acq On : 9 Jan 2025 1:16 am
Operator : thomash
Sample : ic2144-0.1
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:08:59 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



(92) 4-ETHYLTOLUENE

18.889min (+0.012) 0.07PPBV m

response 15753

Ion	Exp%	Act%
105.10	100	100
120.10	30.00	41.33
119.10	2.30	10.26
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w55996.D
 Acq On : 9 Jan 2025 1:59 am
 Operator : thomash
 Sample : ic2144-0.2
 Misc : MS88386,V5W2144,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:09 2025
 Quant Method : C:\msdchem\1\methods\M5w2144.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Thu Jan 09 09:18:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.651	128	430146	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.816	114	1898537	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.335	82	894261	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.651	128	430146	10.00	PPBV	# 0.00

System Monitoring Compounds
 85) 4-BROMOFLUOROBENZENE 17.586 95 1158429 10.70 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 107.00%

Target Compounds						Qvalue
3) FREON 152A	3.534	65	6168	0.22	PPBV	91
4) CHLORODIFLUOROMETHANE	3.570	67	2932	0.20	PPBV	96
5) CHLOROTRIFLUOROETHENE	3.595	116	14560	0.20	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.644	85	30332	0.21	PPBV	100
7) PROPYLENE	3.589	41	7548	0.22	PPBV	89
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.742	65	32151	0.22	PPBV	95
9) FREON 114	3.827	85	43523	0.23	PPBV	95
10) CHLOROMETHANE	3.760	52	4413	0.24	PPBV	98
11) VINYL CHLORIDE	3.919	62	14573	0.23	PPBV	96
12) 1,3-BUTADIENE	4.017	54	10010	0.24	PPBV	86
13) n-BUTANE	4.054	43	23212	0.28	PPBV	# 93
14) BROMOMETHANE	4.219	94	15513	0.23	PPBV	90
15) CHLOROETHANE	4.341	64	6633	0.24	PPBV	91
16) DICHLOROFLUOROMETHANE	4.408	67	33297	0.24	PPBV	98
17) ACETONITRILE	4.629	41	14458	0.29	PPBV	92
18) ACROLEIN	4.720	56	6230	0.28	PPBV	# 4
19) FREON 123	4.720	83	35230	0.23	PPBV	98
20) FREON 123A	4.763	117	20311	0.24	PPBV	87
21) TRICHLOROFLUOROMETHANE	4.928	101	30110	0.20	PPBV	99
22) ISOPROPYL ALCOHOL	5.057	45	25111	0.34	PPBV	87
23) ACETONE	4.843	58	8402	0.35	PPBV	# 70
24) PENTANE	5.216	42	9302	0.24	PPBV	96
25) IODOMETHANE	5.406	142	25561	0.21	PPBV	97
26) 1,1-DICHLOROETHYLENE	5.467	96	8707	0.22	PPBV	94
27) CARBON DISULFIDE	5.840	76	25423	0.22	PPBV	85
29) BROMOETHENE	4.604	106	14423	0.22	PPBV	96
30) ACRYLONITRILE	5.216	52	7003	0.31	PPBV	98
31) METHYLENE CHLORIDE	5.577	84	8794	0.24	PPBV	98
32) 3-CHLOROPROPENE	5.681	76	3873	0.21	PPBV	90
33) FREON 113	5.809	151	16242	0.22	PPBV	100
34) TRANS-1,2-DICHLOROETHYLENE	6.433	96	9097	0.22	PPBV	97
35) TERTIARY BUTYL ALCOHOL	5.607	59	13183	0.18	PPBV	85
36) METHYL TERTIARY BUTYL ALCOHOL	6.751	73	20340	0.19	PPBV	93
37) TETRAHYDROFURAN	8.318	72	2510	0.14	PPBV	# 67
38) HEXANE	7.687	57	10819	0.18	PPBV	90
39) VINYL ACETATE	6.825	86	449	0.06	PPBV	# 1
40) 1,1-DICHLOROETHANE	6.635	63	15670	0.22	PPBV	99
41) METHYL ETHYL KETONE	7.125	72	2726	0.15	PPBV	# 72
42) cis-1,2-DICHLOROETHYLENE	7.486	96	9388	0.21	PPBV	94
43) DIISOPROPYL ETHER	7.749	59	3117	0.18	PPBV	98
44) ETHYL ACETATE	7.804	61	1830	0.14	PPBV	# 37
45) METHYL ACRYLATE	7.779	55	10050m	0.14	PPBV	
46) CHLOROFORM	7.798	83	21741	0.23	PPBV	90
47) 2,4-DIMETHYLPENTANE	8.648	57	11533	0.17	PPBV	88
48) 1,1,1-TRICHLOROETHANE	8.862	97	21758	0.22	PPBV	98
49) CARBON TETRACHLORIDE	9.553	117	23203	0.21	PPBV	99
50) 1,2-DICHLOROETHANE	8.599	62	13059	0.22	PPBV	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w55996.D
Acq On : 9 Jan 2025 1:59 am
Operator : thomash
Sample : ic2144-0.2
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:09 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) BENZENE	9.388	78	25585	0.21	PPBV	99
53) CYCLOHEXANE	9.682	84	8785	0.17	PPBV	97
54) 2,3-DIMETHYLPENTANE	9.988	71	5117	0.20	PPBV	94
55) TRICHLOROETHYLENE	10.642	95	12186	0.19	PPBV	98
56) 1,2-DICHLOROPROPANE	10.355	63	9729	0.20	PPBV	98
57) DIBROMOMETHANE	10.330	174	14121	0.21	PPBV	97
58) ETHYL ACRYLATE	10.477	55	11040	0.12	PPBV #	82
59) BROMODICHLOROMETHANE	10.593	83	23424	0.20	PPBV	92
60) 2,2,4-TRIMETHYLPENTANE	10.673	57	32971	0.18	PPBV	94
61) 1,4-DIOXANE	10.765	88	4325	0.14	PPBV #	1
62) HEPTANE	11.022	43	12467	0.18	PPBV	97
63) METHYL METHACRYLATE	10.979	69	6268	0.14	PPBV #	64
64) METHYL ISOBUTYL KETONE	11.860	58	4258	0.12	PPBV #	60
65) cis-1,3-DICHLOROPROPENE	11.731	75	13102	0.16	PPBV	89
66) TOLUENE	12.961	92	15243	0.16	PPBV	97
67) 1,3-DICHLOROPROPANE	13.022	76	14414	0.18	PPBV #	99
68) trans-1,3-DICHLOROPROPENE	12.423	75	11037	0.14	PPBV	90
69) 1,1,2-TRICHLOROETHANE	12.618	83	10655	0.20	PPBV	97
71) 2-HEXANONE	13.438	58	3862	0.08	PPBV #	29
72) ETHYL METHACRYLATE	13.426	69	8311	0.11	PPBV	94
73) TETRACHLOROETHYLENE	14.460	164	14147	0.22	PPBV	99
74) DIBROMOCHLOROMETHANE	13.512	129	23704	0.20	PPBV	96
75) 1,2-DIBROMOETHANE	13.830	107	18318	0.20	PPBV	97
76) OCTANE	14.325	43	14928	0.16	PPBV	93
77) 1,1,1,2-TETRACHLOROETHANE	15.390	131	15844	0.21	PPBV	98
78) CHLOROBENZENE	15.402	112	28951	0.23	PPBV	96
79) ETHYLBENZENE	15.965	91	33131	0.18	PPBV	98
80) m,p-XYLENE	16.234	106	24603	0.32	PPBV	96
81) o-XYLENE	16.901	106	11814	0.16	PPBV	94
82) STYRENE	16.772	104	15130	0.13	PPBV	98
83) NONANE	17.304	43	15302	0.16	PPBV	99
84) BROMOFORM	16.295	173	22128	0.18	PPBV	98
86) 1,1,2,2-TETRACHLOROETHANE	16.913	83	27500	0.21	PPBV	99
87) 1,2,3-TRICHLOROPROPANE	17.103	75	18951	0.22	PPBV	98
88) ISOPROPYLBENZENE	17.812	105	38756	0.18	PPBV	98
89) BROMOBENZENE	17.916	77	21469	0.20	PPBV	95
90) 2-CHLOROTOLUENE	18.552	126	9449	0.16	PPBV	97
91) n-PROPYLBENZENE	18.644	120	9127	0.15	PPBV	99
92) 4-ETHYLTOLUENE	18.883	105	33181	0.15	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	19.017	105	29448	0.16	PPBV	96
94) ALPHA-METHYLSTYRENE	19.268	118	11835	0.12	PPBV	97
95) tert-BUTYLBENZENE	19.611	134	6084	0.14	PPBV	93
96) 1,2,4-TRIMETHYLBENZENE	19.629	105	28844	0.15	PPBV	99
97) m-DICHLOROBENZENE	19.831	146	26957	0.18	PPBV	98
98) BENZYL CHLORIDE	19.819	91	26223	0.14	PPBV	97
99) p-DICHLOROBENZENE	19.929	146	27136	0.20	PPBV	98
100) sec-BUTYLBENZENE	20.015	134	8151	0.16	PPBV #	88
101) 1,2,3-TRIMETHYLBENZENE	20.241	105	29770	0.15	PPBV #	98
102) p-ISOPROPYLTOLUENE	20.265	134	9403	0.16	PPBV	96
103) o-DICHLOROBENZENE	20.412	146	26574	0.20	PPBV	98
104) n-BUTYLBENZENE	20.859	134	7862	0.13	PPBV #	83
105) HEXACHLOROETHANE	21.318	117	18373	0.19	PPBV	97
106) HEXACHLOROBUTADIENE	23.367	225	23529	0.18	PPBV	96
107) 1,2,4-TRICHLOROBENZENE	23.233	180	20813	0.18	PPBV	98
108) NAPHTHALENE	22.896	128	42291	0.15	PPBV	98
110) TVHC as equiv Pentane	5.216	TIC	63670	0.25	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w55996.D
Acq On : 9 Jan 2025 1:59 am
Operator : thomash
Sample : ic2144-0.2
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:09 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

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

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

(QT Reviewed)

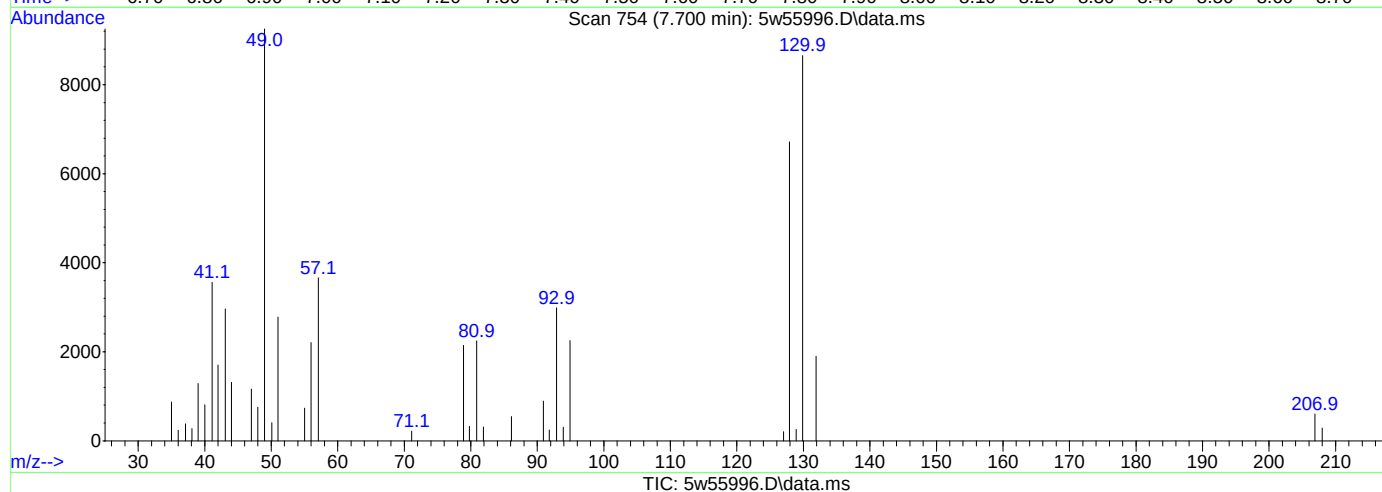
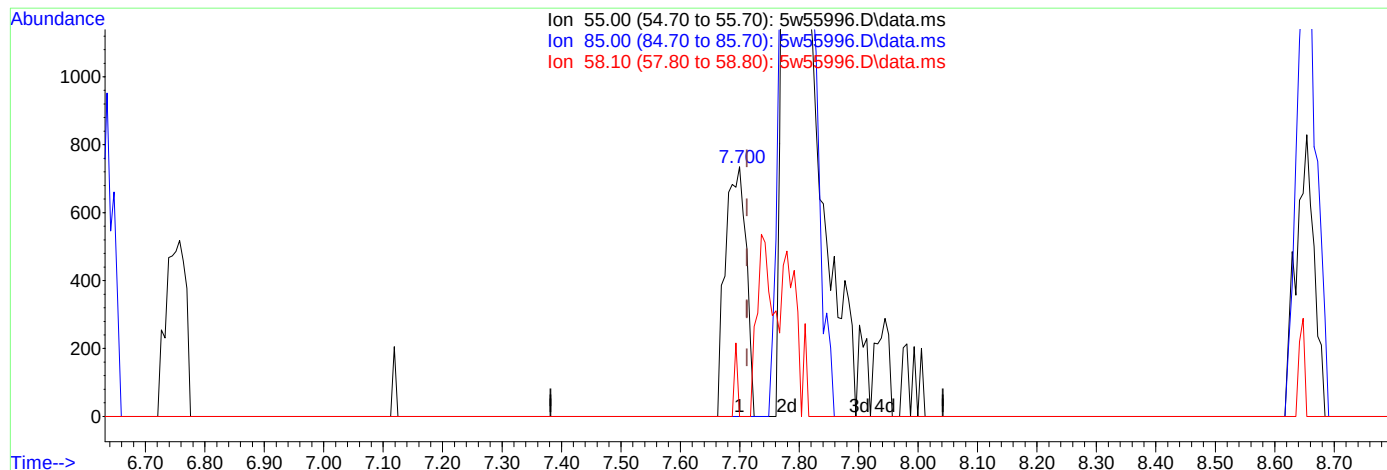
Quant Time: Jan 09 17:09:09 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w55996.D
Acq On : 9 Jan 2025 1:59 am
Operator : thomash
Sample : ic2144-0.2
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 09:31:18 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



(45) METHYL ACRYLATE

7.700min (-0.012) 0.02PPBV

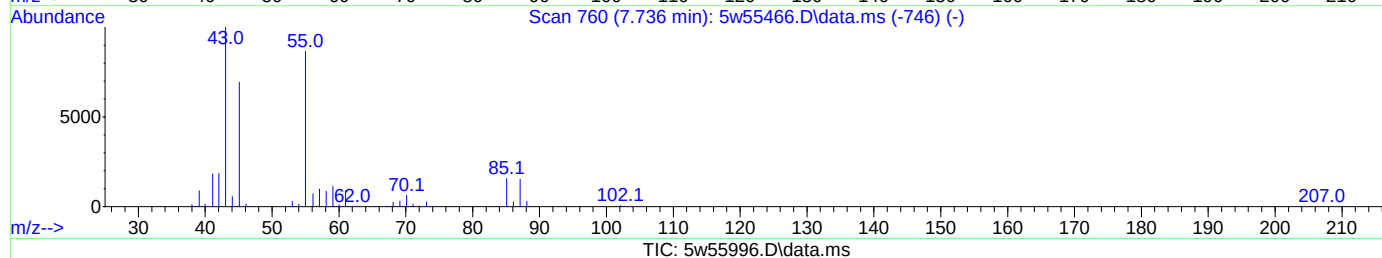
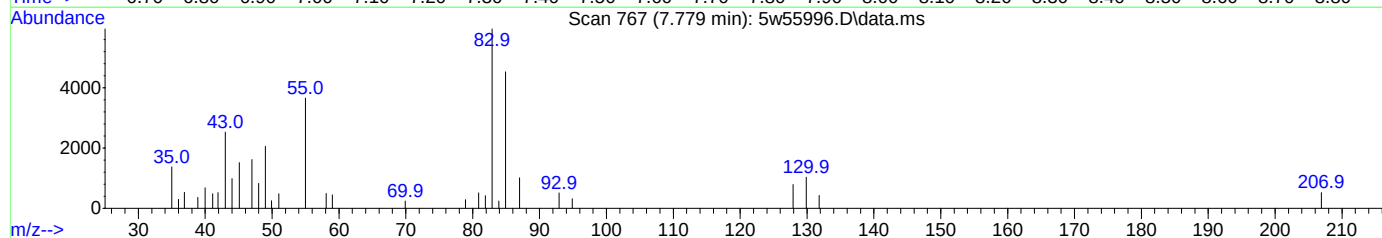
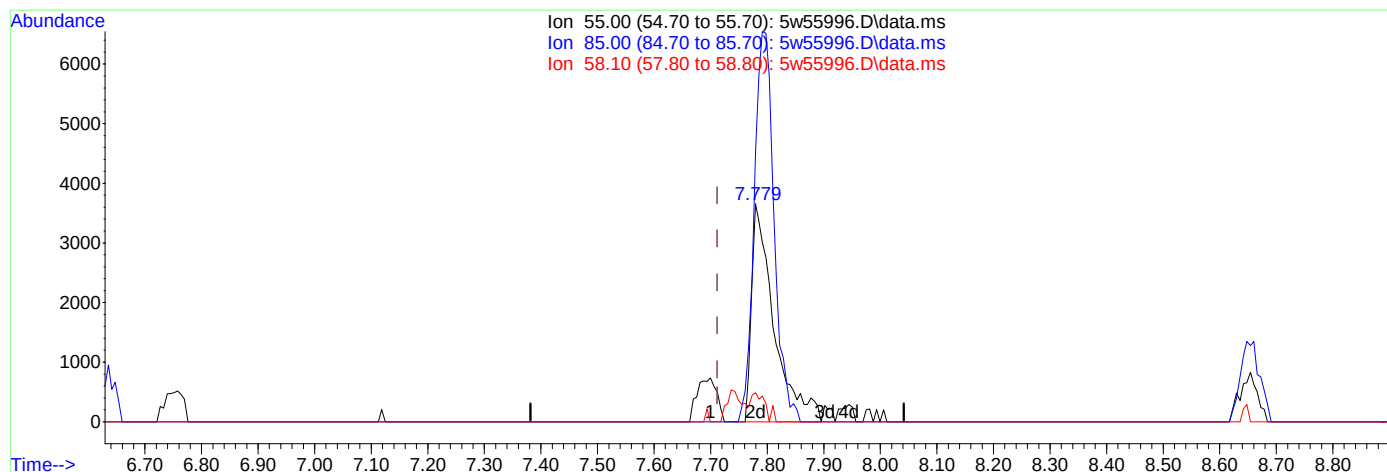
response 1784

Ion	Exp%	Act%
55.00	100	100
85.00	16.90	0.00#
58.10	13.60	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w55996.D
Acq On : 9 Jan 2025 1:59 am
Operator : thomash
Sample : ic2144-0.2
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:09 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



(45) METHYL ACRYLATE

7.779min (+0.067) 0.14PPBV m

response 10050

Ion	Exp%	Act%
55.00	100	100
85.00	16.90	0.00#
58.10	13.60	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56001.D
Acq On : 9 Jan 2025 5:39 am
Operator : thomash
Sample : ic2144-5
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:25 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.651	128	412314	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.822	114	1823891	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.341	82	913003	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.651	128	412314	10.00	PPBV	# 0.00

System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.586	95	1161846	10.51	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	105.10%

Target Compounds						Qvalue
3) FREON 152A	3.527	65	147367	5.41	PPBV	100
4) CHLORODIFLUOROMETHANE	3.558	67	73198	5.27	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.588	116	364587	5.26	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.631	85	733551	5.39	PPBV	100
7) PROPYLENE	3.582	41	178796	5.42	PPBV	98
8) 1-CHLORO-1,1-DIFLUOROE...	3.735	65	756226	5.48	PPBV	100
9) FREON 114	3.821	85	1036757	5.83	PPBV	99
10) CHLOROMETHANE	3.754	52	95845	5.37	PPBV	99
11) VINYL CHLORIDE	3.913	62	337433	5.44	PPBV	100
12) 1,3-BUTADIENE	4.011	54	227101	5.62	PPBV	98
13) n-BUTANE	4.041	43	462829	5.73	PPBV	98
14) BROMOMETHANE	4.206	94	358674	5.54	PPBV	99
15) CHLOROETHANE	4.335	64	145882	5.55	PPBV	99
16) DICHLOROFLUOROMETHANE	4.402	67	742212	5.59	PPBV	100
17) ACETONITRILE	4.598	41	257626	5.36	PPBV	99
18) ACROLEIN	4.696	56	116734	5.44	PPBV	100
19) FREON 123	4.714	83	815033	5.64	PPBV	100
20) FREON 123A	4.757	117	475455	5.81	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.922	101	789105	5.60	PPBV	100
22) ISOPROPYL ALCOHOL	5.008	45	401918	5.62	PPBV	100
23) ACETONE	4.806	58	129044	5.64	PPBV	99
24) PENTANE	5.210	42	209310	5.64	PPBV	100
25) IODOMETHANE	5.393	142	651862	5.55	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.460	96	204770	5.46	PPBV	100
27) CARBON DISULFIDE	5.828	76	605414	5.56	PPBV	100
28) ETHANOL	4.433	45	165389	5.43	PPBV	98
29) BROMOETHENE	4.598	106	341504	5.45	PPBV	99
30) ACRYLONITRILE	5.185	52	123794	5.71	PPBV	99
31) METHYLENE CHLORIDE	5.571	84	194110	5.51	PPBV	99
32) 3-CHLOROPROPENE	5.675	76	94602	5.33	PPBV	99
33) FREON 113	5.797	151	374705	5.37	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.433	96	212538	5.29	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.534	59	345988	5.03	PPBV	97
36) METHYL TERTIARY BUTYL ...	6.696	73	553361	5.41	PPBV	99
37) TETRAHYDROFURAN	8.232	72	91212	5.20	PPBV	98
38) HEXANE	7.687	57	300652	5.36	PPBV	100
39) VINYL ACETATE	6.788	86	35480	4.94	PPBV	99
40) 1,1-DICHLOROETHANE	6.629	63	383811	5.57	PPBV	99
41) METHYL ETHYL KETONE	7.045	72	93452	5.25	PPBV	91
42) cis-1,2-DICHLOROETHYLENE	7.479	96	227374	5.38	PPBV	100
43) DIISOPROPYL ETHER	7.700	59	90544	5.34	PPBV	99
44) ETHYL ACETATE	7.736	61	67378	5.32	PPBV	# 37
45) METHYL ACRYLATE	7.718	55	376177	5.39	PPBV	99
46) CHLOROFORM	7.791	83	508420	5.58	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.648	57	341579	5.33	PPBV	98
48) 1,1,1-TRICHLOROETHANE	8.862	97	522398	5.48	PPBV	100
49) CARBON TETRACHLORIDE	9.547	117	579909	5.42	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w56001.D
 Acq On : 9 Jan 2025 5:39 am
 Operator : thomash
 Sample : ic2144-5
 Misc : MS88386,V5W2144,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:25 2025
 Quant Method : C:\msdchem\1\methods\M5w2144.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Thu Jan 09 09:18:24 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.587	62	318794	5.55	PPBV	100
52) BENZENE	9.382	78	649530	5.45	PPBV	100
53) CYCLOHEXANE	9.682	84	260380	5.32	PPBV	100
54) 2,3-DIMETHYLPENTANE	9.981	71	131512	5.28	PPBV	98
55) TRICHLOROETHYLENE	10.636	95	322438	5.24	PPBV	98
56) 1,2-DICHLOROPROPANE	10.349	63	243198	5.19	PPBV	100
57) DIBROMOMETHANE	10.318	174	322389	5.10	PPBV	99
58) ETHYL ACRYLATE	10.404	55	440559	5.14	PPBV	99
59) BROMODICHLOROMETHANE	10.593	83	579609	5.22	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	10.673	57	982090	5.43	PPBV	99
61) 1,4-DIOXANE	10.667	88	155888	5.21	PPBV #	2
62) HEPTANE	11.015	43	367798	5.48	PPBV	100
63) METHYL METHACRYLATE	10.930	69	222562	5.29	PPBV	97
64) METHYL ISOBUTYL KETONE	11.786	58	184975	5.26	PPBV	99
65) cis-1,3-DICHLOROPROPENE	11.719	75	412958	5.12	PPBV	99
66) TOLUENE	12.949	92	470931	5.14	PPBV	100
67) 1,3-DICHLOROPROPANE	12.998	76	404826	5.29	PPBV #	99
68) trans-1,3-DICHLOROPROPENE	12.398	75	365946	4.83	PPBV	99
69) 1,1,2-TRICHLOROETHANE	12.600	83	269453	5.22	PPBV	99
71) 2-HEXANONE	13.358	58	262116	5.27	PPBV	99
72) ETHYL METHACRYLATE	13.383	69	392468	5.31	PPBV	100
73) TETRACHLOROETHYLENE	14.460	164	365226	5.55	PPBV	99
74) DIBROMOCHLOROMETHANE	13.499	129	660391	5.33	PPBV	100
75) 1,2-DIBROMOETHANE	13.811	107	518669	5.64	PPBV	100
76) OCTANE	14.319	43	520317	5.56	PPBV	99
77) 1,1,1,2-TETRACHLOROETHANE	15.383	131	430775	5.49	PPBV	100
78) CHLOROBENZENE	15.402	112	713863	5.56	PPBV	99
79) ETHYLBENZENE	15.952	91	1061200	5.54	PPBV	100
80) m,p-XYLENE	16.203	106	851106	10.92	PPBV	98
81) o-XYLENE	16.895	106	420847	5.57	PPBV	100
82) STYRENE	16.748	104	629370	5.48	PPBV	100
83) NONANE	17.304	43	559046	5.65	PPBV	100
84) BROMOFORM	16.283	173	666046	5.39	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.901	83	741833	5.66	PPBV	100
87) 1,2,3-TRICHLOROPROPANE	17.090	75	495808	5.62	PPBV	99
88) ISOPROPYLBENZENE	17.806	105	1216916	5.41	PPBV	100
89) BROMOBENZENE	17.904	77	587922	5.42	PPBV	100
90) 2-CHLOROTOLUENE	18.540	126	324472	5.26	PPBV	99
91) n-PROPYLBENZENE	18.632	120	345102	5.46	PPBV	100
92) 4-ETHYLTOLUENE	18.877	105	1265802	5.69	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	19.005	105	1036803	5.64	PPBV	100
94) ALPHA-METHYLSTYRENE	19.250	118	525122	5.24	PPBV	100
95) tert-BUTYLBENZENE	19.605	134	237321	5.48	PPBV	98
96) 1,2,4-TRIMETHYLBENZENE	19.623	105	1113528	5.62	PPBV	99
97) m-DICHLOROBENZENE	19.813	146	817473	5.33	PPBV	100
98) BENZYL CHLORIDE	19.807	91	974591	5.18	PPBV	100
99) p-DICHLOROBENZENE	19.917	146	819621	5.78	PPBV	100
100) sec-BUTYLBENZENE	20.015	134	294921	5.70	PPBV	98
101) 1,2,3-TRIMETHYLBENZENE	20.229	105	1091752	5.51	PPBV #	100
102) p-ISOPROPYLTOLUENE	20.259	134	340447	5.60	PPBV	98
103) o-DICHLOROBENZENE	20.400	146	768393	5.64	PPBV	100
104) n-BUTYLBENZENE	20.847	134	329180	5.49	PPBV	97
105) HEXACHLOROETHANE	21.311	117	564398	5.62	PPBV	99
106) HEXACHLOROBUTADIENE	23.367	225	694231	5.31	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.220	180	675748	5.66	PPBV	99
108) NAPHTHALENE	22.884	128	1584395	5.64	PPBV	99
110) TVHC as equiv Pentane	5.210	TIC	1367858	5.66	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56001.D
Acq On : 9 Jan 2025 5:39 am
Operator : thomash
Sample : ic2144-5
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:25 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

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

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

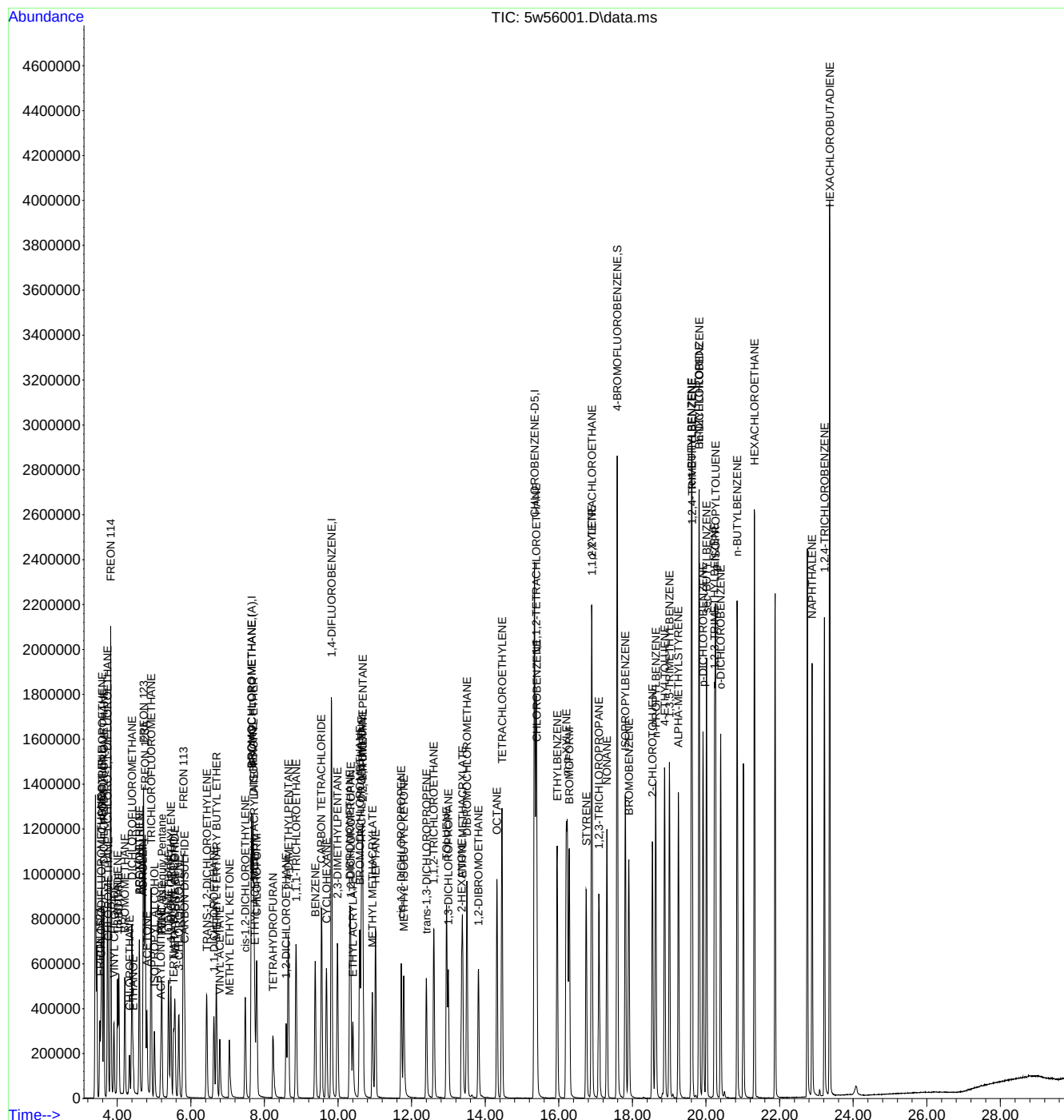
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Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\  
Data File : 5w56001.D  
Acq On : 9 Jan 2025 5:39 am  
Operator : thomash  
Sample : ic2144-5  
Misc : MS88386,V5W2144,,,,,1  
ALS Vial : 2 Sample Multiplier: 1
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Quant Time: Jan 09 17:09:25 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



7.7.4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56002.D
Acq On : 9 Jan 2025 6:20 am
Operator : thomash
Sample : icc2144-10
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 19:04:53 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.651	128	422761	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.822	114	1839130	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.341	82	963498	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.651	128	422761	10.00	PPBV	# 0.00

System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.586	95	1166724	10.00	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	100.00%

Target Compounds						Qvalue
3) FREON 152A	3.527	65	298738	10.70	PPBV	100
4) CHLORODIFLUOROMETHANE	3.558	67	150918	10.60	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.589	116	746749	10.50	PPBV	100
6) DICHLORODIFLUOROMETHANE	3.637	85	1479774	10.60	PPBV	100
7) PROPYLENE	3.582	41	368919	10.90	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.735	65	1498517	10.60	PPBV	100
9) FREON 114	3.821	85	2005371	10.99	PPBV	100
10) CHLOROMETHANE	3.754	52	190178	10.39	PPBV	100
11) VINYL CHLORIDE	3.913	62	655318	10.30	PPBV	100
12) 1,3-BUTADIENE	4.011	54	447772	10.80	PPBV	100
13) n-BUTANE	4.047	43	895125	10.80	PPBV	100
14) BROMOMETHANE	4.206	94	696439	10.50	PPBV	100
15) CHLOROETHANE	4.335	64	280517	10.40	PPBV	100
16) DICHLOROFLUOROMETHANE	4.402	67	1444162	10.60	PPBV	100
17) ACETONITRILE	4.598	41	498004	10.10	PPBV	100
18) ACROLEIN	4.690	56	231198	10.50	PPBV	100
19) FREON 123	4.714	83	1571602	10.60	PPBV	100
20) FREON 123A	4.757	117	923738	11.00	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.922	101	1531008	10.60	PPBV	100
22) ISOPROPYL ALCOHOL	5.002	45	777527	10.60	PPBV	100
23) ACETONE	4.800	58	241823	10.30	PPBV	100
24) PENTANE	5.210	42	414960	10.90	PPBV	100
25) IODOMETHANE	5.393	142	1325853	11.00	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.461	96	411238	10.70	PPBV	100
27) CARBON DISULFIDE	5.828	76	1183086	10.60	PPBV	100
28) ETHANOL	4.433	45	318822	10.20	PPBV	100
29) BROMOETHENE	4.598	106	680782	10.60	PPBV	100
30) ACRYLONITRILE	5.179	52	244700	11.00	PPBV	100
31) METHYLENE CHLORIDE	5.571	84	379289	10.50	PPBV	100
32) 3-CHLOROPROPENE	5.675	76	191153	10.50	PPBV	100
33) FREON 113	5.797	151	757780	10.60	PPBV	100
34) TRANS-1,2-DICHLOROETHYLENE	6.433	96	432868	10.50	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.522	59	698387	9.90	PPBV	100
36) METHYL TERTIARY BUTYL ETHER	6.690	73	1131934	10.80	PPBV	100
37) TETRAHYDROFURAN	8.220	72	188928	10.50	PPBV	100
38) HEXANE	7.687	57	620861	10.80	PPBV	100
39) VINYL ACETATE	6.788	86	76560	10.40	PPBV	100
40) 1,1-DICHLOROETHANE	6.629	63	755460	10.70	PPBV	100
41) METHYL ETHYL KETONE	7.033	72	197254	10.80	PPBV	100
42) cis-1,2-DICHLOROETHYLENE	7.479	96	463328	10.70	PPBV	100
43) DIISOPROPYL ETHER	7.694	59	187665	10.80	PPBV	100
44) ETHYL ACETATE	7.730	61	140285	10.80	PPBV	# 100
45) METHYL ACRYLATE	7.712	55	773419	10.80	PPBV	100
46) CHLOROFORM	7.791	83	1008146	10.80	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.648	57	709986	10.80	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.862	97	1055519	10.80	PPBV	100
49) CARBON TETRACHLORIDE	9.553	117	1185503	10.80	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56002.D
Acq On : 9 Jan 2025 6:20 am
Operator : thomash
Sample : icc2144-10
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 19:04:53 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	8.587	62	642533	10.90	PPBV	100
52)	BENZENE	9.382	78	1322291	11.00	PPBV	100
53)	CYCLOHEXANE	9.682	84	537413	10.90	PPBV	100
54)	2,3-DIMETHYLPENTANE	9.988	71	271223	10.80	PPBV	100
55)	TRICHLOROETHYLENE	10.636	95	651555	10.50	PPBV	100
56)	1,2-DICHLOROPROPANE	10.349	63	495856	10.50	PPBV	100
57)	DIBROMOMETHANE	10.324	174	669261	10.50	PPBV	100
58)	ETHYL ACRYLATE	10.398	55	924473	10.70	PPBV	100
59)	BROMODICHLOROMETHANE	10.593	83	1176185	10.50	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	10.673	57	1970368	10.80	PPBV	100
61)	1,4-DIOXANE	10.654	88	316825	10.50	PPBV	100
62)	HEPTANE	11.015	43	744135	11.00	PPBV	100
63)	METHYL METHACRYLATE	10.924	69	462703	10.90	PPBV	100
64)	METHYL ISOBUTYL KETONE	11.774	58	383163	10.80	PPBV	100
65)	cis-1,3-DICHLOROPROPENE	11.719	75	869909	10.70	PPBV	100
66)	TOLUENE	12.949	92	979572	10.60	PPBV	100
67)	1,3-DICHLOROPROPANE	12.998	76	817699	10.60	PPBV #	100
68)	trans-1,3-DICHLOROPROPENE	12.398	75	779160	10.20	PPBV	100
69)	1,1,2-TRICHLOROETHANE	12.600	83	556460	10.70	PPBV	100
71)	2-HEXANONE	13.346	58	556523	10.60	PPBV	100
72)	ETHYL METHACRYLATE	13.383	69	818718	10.50	PPBV	100
73)	TETRACHLOROETHYLENE	14.460	164	756622	10.90	PPBV	100
74)	DIBROMOCHLOROMETHANE	13.499	129	1371699	10.50	PPBV	100
75)	1,2-DIBROMOETHANE	13.817	107	1068453	11.00	PPBV	100
76)	OCTANE	14.319	43	1075669	10.90	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	15.383	131	893580	10.80	PPBV	100
78)	CHLOROBENZENE	15.402	112	1462615	10.80	PPBV	100
79)	ETHYLBENZENE	15.952	91	2223019	11.00	PPBV	100
80)	m,p-XYLENE	16.228	106	1759365	21.40	PPBV	100
81)	o-XYLENE	16.895	106	869205	10.90	PPBV	100
82)	STYRENE	16.748	104	1332935	11.00	PPBV	100
83)	NONANE	17.304	43	1138299	10.90	PPBV	100
84)	BROMOFORM	16.283	173	1394970	10.70	PPBV	100
86)	1,1,2,2-TETRACHLOROETHANE	16.901	83	1507279	10.90	PPBV	100
87)	1,2,3-TRICHLOROPROPANE	17.090	75	987407	10.60	PPBV	100
88)	ISOPROPYLBENZENE	17.806	105	2518077	10.60	PPBV	100
89)	BROMOBENZENE	17.904	77	1190270	10.40	PPBV	100
90)	2-CHLOROTOLUENE	18.540	126	670614	10.30	PPBV	100
91)	n-PROPYLBENZENE	18.632	120	707147	10.60	PPBV	100
92)	4-ETHYLTOLUENE	18.877	105	2559736	10.90	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	19.005	105	2112853	10.90	PPBV	100
94)	ALPHA-METHYLSTYRENE	19.250	118	1100478	10.40	PPBV	100
95)	tert-BUTYLBENZENE	19.611	134	502702	11.00	PPBV	100
96)	1,2,4-TRIMETHYLBENZENE	19.623	105	2298628	11.00	PPBV	100
97)	m-DICHLOROBENZENE	19.813	146	1684864	10.40	PPBV	100
98)	BENZYL CHLORIDE	19.807	91	2064361	10.40	PPBV	100
99)	p-DICHLOROBENZENE	19.917	146	1632260	10.90	PPBV	100
100)	sec-BUTYLBENZENE	20.015	134	595022	10.90	PPBV	100
101)	1,2,3-TRIMETHYLBENZENE	20.235	105	2238862	10.70	PPBV #	100
102)	p-ISOPROPYLTOLUENE	20.259	134	693362	10.80	PPBV	100
103)	o-DICHLOROBENZENE	20.400	146	1538697	10.70	PPBV	100
104)	n-BUTYLBENZENE	20.853	134	683987	10.80	PPBV	100
105)	HEXACHLOROETHANE	21.318	117	1165477	11.00	PPBV	100
106)	HEXACHLOROBUTADIENE	23.367	225	1488828	10.80	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	23.220	180	1373791	10.90	PPBV	100
108)	NAPHTHALENE	22.884	128	3232806	10.90	PPBV	100
110)	VHCH as equiv Pentane	5.210	TIC	2702539	10.90	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56002.D
Acq On : 9 Jan 2025 6:20 am
Operator : thomash
Sample : icc2144-10
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 19:04:53 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

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

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

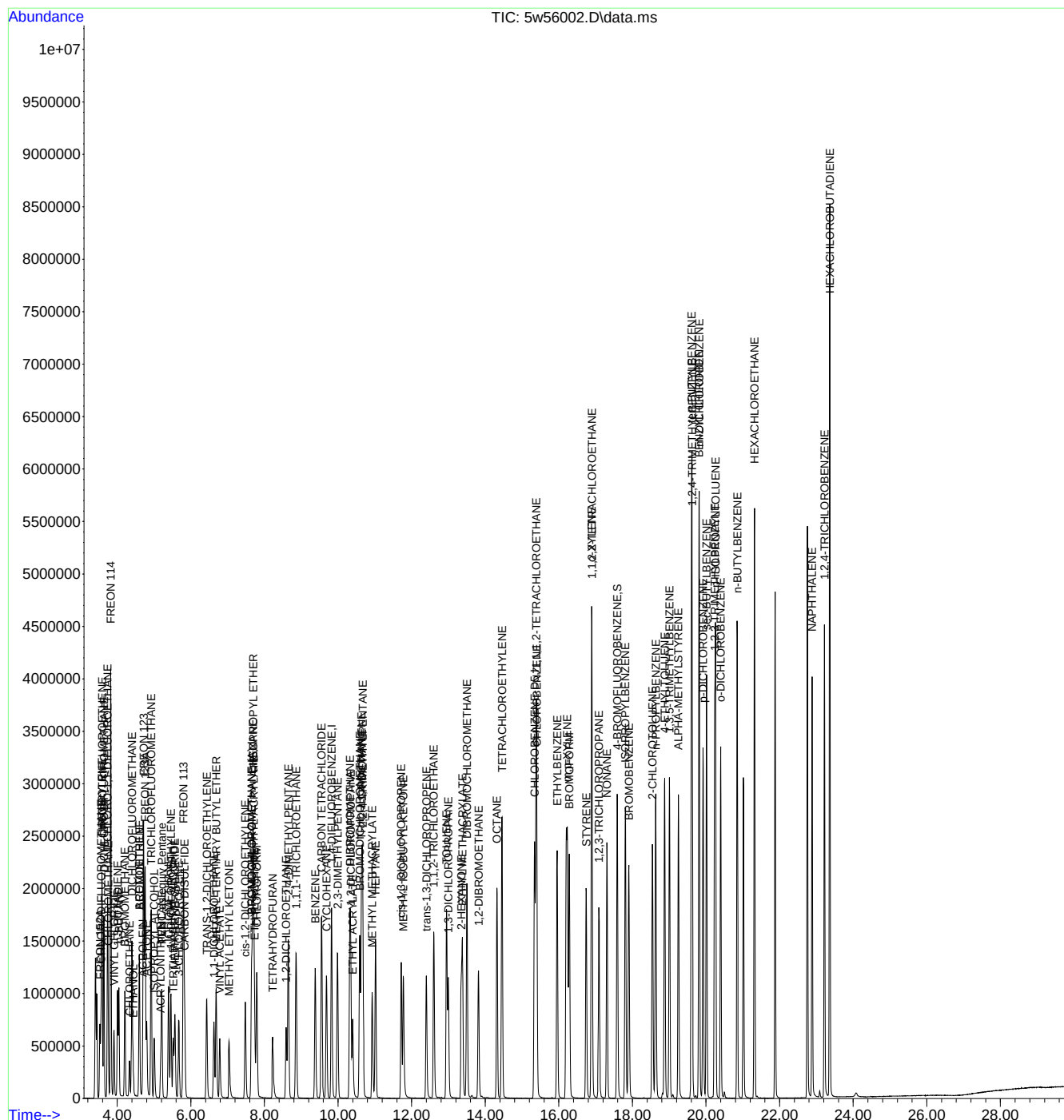
7.7.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56002.D
Acq On : 9 Jan 2025 6:20 am
Operator : thomash
Sample : icc2144-10
Misc : MS8386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 19:04:53 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



7.7.5

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56003.D
Acq On : 9 Jan 2025 7:03 am
Operator : thomash
Sample : ic2144-20
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:42 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.657	128	434526	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.822	114	1816899	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.341	82	1045556	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.657	128	434526	10.00	PPBV	# 0.00

System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.586	95	1153941	9.11	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	91.10%

Target Compounds						Qvalue
3) FREON 152A	3.527	65	621419	21.65	PPBV	100
4) CHLORODIFLUOROMETHANE	3.558	67	313655	21.43	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.588	116	1572434	21.51	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.637	85	2977330	20.75	PPBV	100
7) PROPYLENE	3.582	41	752019	21.62	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.735	65	2895337	19.93	PPBV	99
9) FREON 114	3.821	85	3809279	20.32	PPBV	98
10) CHLOROMETHANE	3.754	52	363893	19.34	PPBV	99
11) VINYL CHLORIDE	3.913	62	1243018	19.01	PPBV	99
12) 1,3-BUTADIENE	4.011	54	850473	19.96	PPBV	100
13) n-BUTANE	4.047	43	1693973	19.89	PPBV	98
14) BROMOMETHANE	4.206	94	1343420	19.71	PPBV	100
15) CHLOROETHANE	4.335	64	542052	19.55	PPBV	99
16) DICHLOROFLUOROMETHANE	4.402	67	2745627	19.61	PPBV	100
17) ACETONITRILE	4.598	41	954367	18.83	PPBV	100
18) ACROLEIN	4.690	56	447716	19.78	PPBV	100
19) FREON 123	4.714	83	3012225	19.77	PPBV	100
20) FREON 123A	4.757	117	1780666	20.63	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.922	101	2946235	19.85	PPBV	99
22) ISOPROPYL ALCOHOL	5.002	45	1528103	20.27	PPBV	99
23) ACETONE	4.800	58	460132	19.07	PPBV	98
24) PENTANE	5.210	42	818760	20.92	PPBV	99
25) IODOMETHANE	5.399	142	2703927	21.83	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.460	96	821443	20.79	PPBV	100
27) CARBON DISULFIDE	5.834	76	2338771	20.39	PPBV	99
28) ETHANOL	4.433	45	593357	18.47	PPBV	100
29) BROMOETHENE	4.598	106	1335979	20.24	PPBV	100
30) ACRYLONITRILE	5.179	52	496198	21.70	PPBV	100
31) METHYLENE CHLORIDE	5.571	84	753199	20.29	PPBV	99
32) 3-CHLOROPROPENE	5.675	76	384693	20.56	PPBV	99
33) FREON 113	5.797	151	1553085	21.14	PPBV	99
34) TRANS-1,2-DICHLOROETHYLENE	6.433	96	878068	20.73	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.515	59	1415439	19.52	PPBV	100
36) METHYL TERTIARY BUTYL ETHER	6.684	73	2319918	21.54	PPBV	99
37) TETRAHYDROFURAN	8.213	72	388102	20.99	PPBV	99
38) HEXANE	7.687	57	1333260	22.56	PPBV	98
39) VINYL ACETATE	6.788	86	167697	22.16	PPBV	95
40) 1,1-DICHLOROETHANE	6.629	63	1531299	21.10	PPBV	99
41) METHYL ETHYL KETONE	7.033	72	404027	21.52	PPBV	99
42) cis-1,2-DICHLOROETHYLENE	7.479	96	961041	21.59	PPBV	100
43) DIISOPROPYL ETHER	7.693	59	401262	22.47	PPBV	97
44) ETHYL ACETATE	7.724	61	285335	21.37	PPBV	# 96
45) METHYL ACRYLATE	7.712	55	1627351	22.11	PPBV	99
46) CHLOROFORM	7.797	83	2001694	20.86	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.648	57	1455295	21.54	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.862	97	2177580	21.68	PPBV	100
49) CARBON TETRACHLORIDE	9.553	117	2458342	21.79	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w56003.D
 Acq On : 9 Jan 2025 7:03 am
 Operator : thomash
 Sample : ic2144-20
 Misc : MS88386,V5W2144,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:42 2025

Quant Method : C:\msdchem\1\methods\M5w2144.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Thu Jan 09 09:18:24 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.587	62	1328594	21.93	PPBV	100
52) BENZENE	9.382	78	2718148	22.89	PPBV	100
53) CYCLOHEXANE	9.688	84	1092564	22.43	PPBV	100
54) 2,3-DIMETHYLPENTANE	9.988	71	555668	22.39	PPBV	100
55) TRICHLOROETHYLENE	10.642	95	1372842	22.39	PPBV	100
56) 1,2-DICHLOROPROPANE	10.348	63	1012028	21.69	PPBV	99
57) DIBROMOMETHANE	10.324	174	1430206	22.71	PPBV	99
58) ETHYL ACRYLATE	10.397	55	1893212	22.18	PPBV	100
59) BROMODICHLOROMETHANE	10.593	83	2414775	21.82	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	10.673	57	3953616	21.93	PPBV	100
61) 1,4-DIOXANE	10.648	88	653956	21.94	PPBV #	30
62) HEPTANE	11.021	43	1508202	22.57	PPBV	99
63) METHYL METHACRYLATE	10.924	69	949209	22.63	PPBV	97
64) METHYL ISOBUTYL KETONE	11.774	58	793428	22.64	PPBV	99
65) cis-1,3-DICHLOROPROPENE	11.719	75	1822087	22.68	PPBV	98
66) TOLUENE	12.955	92	2050052	22.45	PPBV	99
67) 1,3-DICHLOROPROPANE	12.997	76	1653441	21.69	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.398	75	1658062	21.97	PPBV	100
69) 1,1,2-TRICHLOROETHANE	12.606	83	1145226	22.29	PPBV	99
71) 2-HEXANONE	13.340	58	1168719	20.51	PPBV	99
72) ETHYL METHACRYLATE	13.377	69	1691832	19.99	PPBV	99
73) TETRACHLOROETHYLENE	14.460	164	1596803	21.20	PPBV	99
74) DIBROMOCHLOROMETHANE	13.505	129	2871234	20.25	PPBV	99
75) 1,2-DIBROMOETHANE	13.817	107	2215748	21.02	PPBV	100
76) OCTANE	14.325	43	2254444	21.05	PPBV	99
77) 1,1,1,2-TETRACHLOROETHANE	15.383	131	1954709	21.77	PPBV	99
78) CHLOROBENZENE	15.402	112	3090812	21.03	PPBV	99
79) ETHYLBENZENE	15.952	91	4614221	21.04	PPBV	100
80) m,p-XYLENE	16.228	106	3679265	41.24	PPBV	97
81) o-XYLENE	16.894	106	1859671	21.49	PPBV	98
82) STYRENE	16.748	104	2810549	21.37	PPBV	100
83) NONANE	17.310	43	2339892	20.65	PPBV	100
84) BROMOFORM	16.283	173	2941281	20.79	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.901	83	3169455	21.12	PPBV	99
87) 1,2,3-TRICHLOROPROPANE	17.090	75	1986091	19.65	PPBV	99
88) ISOPROPYLBENZENE	17.812	105	5203481	20.19	PPBV	99
89) BROMOBENZENE	17.904	77	2438548	19.63	PPBV	99
90) 2-CHLOROTOLUENE	18.546	126	1410347	19.96	PPBV	100
91) n-PROPYLBENZENE	18.632	120	1458040	20.14	PPBV	99
92) 4-ETHYLTOLUENE	18.877	105	5289712	20.76	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	19.005	105	4364322	20.75	PPBV	99
94) ALPHA-METHYLSTYRENE	19.256	118	2316923	20.18	PPBV	100
95) tert-BUTYLBENZENE	19.611	134	1112078	22.42	PPBV	95
96) 1,2,4-TRIMETHYLBENZENE	19.623	105	4901595	21.62	PPBV	99
97) m-DICHLOROBENZENE	19.819	146	3594897	20.45	PPBV	99
98) BENZYL CHLORIDE	19.813	91	4455917	20.69	PPBV	99
99) p-DICHLOROBENZENE	19.923	146	3378793	20.79	PPBV	100
100) sec-BUTYLBENZENE	20.014	134	1232823	20.81	PPBV	94
101) 1,2,3-TRIMETHYLBENZENE	20.235	105	4670537	20.57	PPBV #	99
102) p-ISOPROPYLTOLUENE	20.259	134	1469746	21.10	PPBV	96
103) o-DICHLOROBENZENE	20.400	146	3159672	20.25	PPBV	99
104) n-BUTYLBENZENE	20.853	134	1460466	21.25	PPBV	95
105) HEXACHLOROETHANE	21.318	117	2569824	22.35	PPBV	99
106) HEXACHLOROBUTADIENE	23.367	225	3473189	23.22	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	23.220	180	2919332	21.34	PPBV	99
108) NAPHTHALENE	22.884	128	6572790	20.42	PPBV	98
110) TVHC as equiv Pentane	5.210	TIC	5392363	21.16	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56003.D
Acq On : 9 Jan 2025 7:03 am
Operator : thomash
Sample : ic2144-20
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:42 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

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

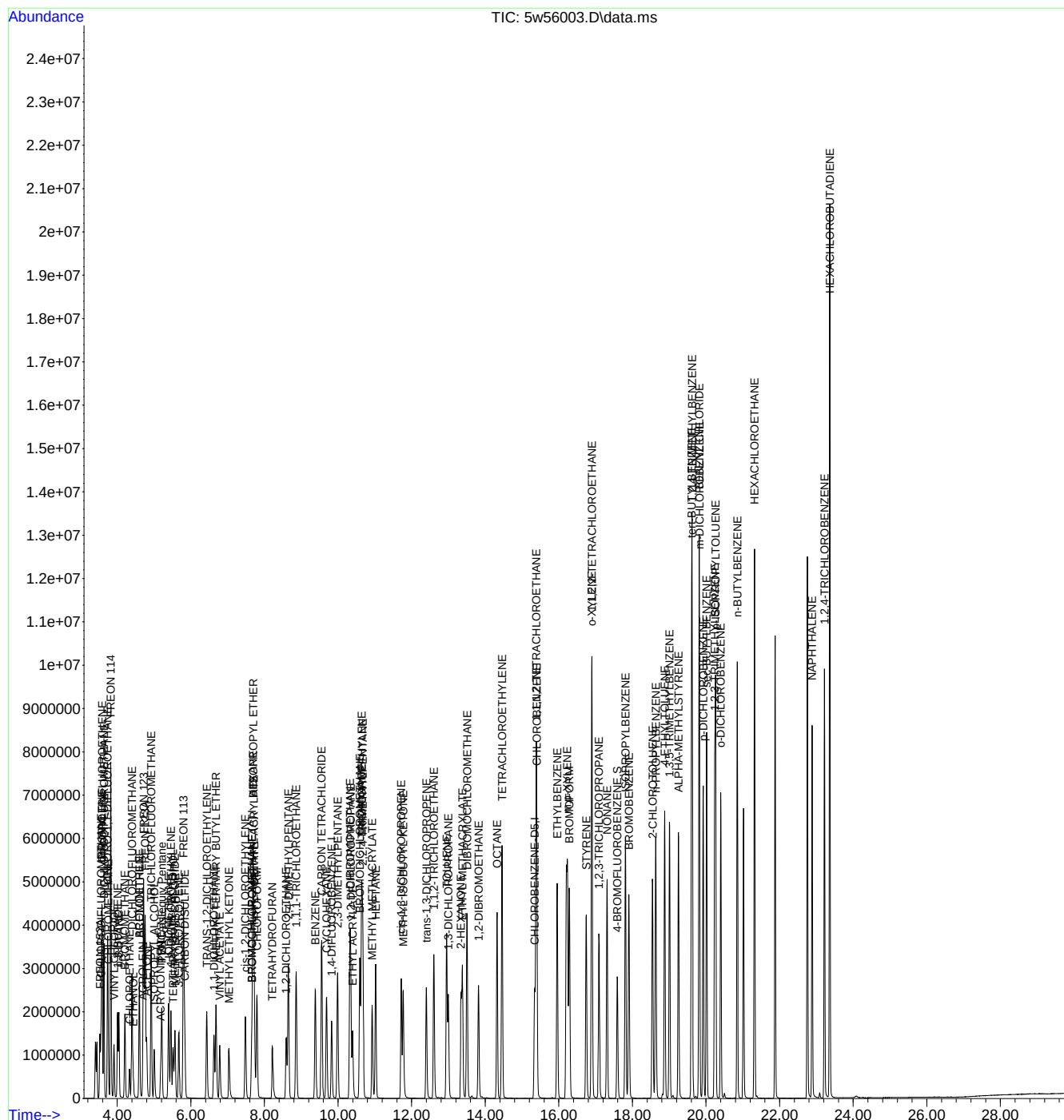
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.7.6

7

Data Path : C:\msdchem\1\data\
Data File : 5w56003.D
Acq On : 9 Jan 2025 7:03 am
Operator : thomash
Sample : ic2144-20
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:42 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



7.7.6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56004.D
Acq On : 9 Jan 2025 7:49 am
Operator : thomash
Sample : ic2144-40
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:52 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.663	128	463457	10.00	PPBV	0.01
51) 1,4-DIFLUOROBENZENE	9.828	114	1816263	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.340	82	1233579	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.663	128	463457	10.00	PPBV	# 0.01

System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.592	95	1182267	7.91	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	79.10%

Target Compounds						Qvalue
3) FREON 152A	3.527	65	1313525	42.92	PPBV	100
4) CHLORODIFLUOROMETHANE	3.564	67	669206	42.88	PPBV	99
5) CHLOROTRIFLUOROETHENE	3.588	116	3303540	42.37	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.637	85	5924521	38.71	PPBV	98
7) PROPYLENE	3.582	41	1545166	41.64	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.741	65	5434243	35.06	PPBV	99
9) FREON 114	3.827	85	6910409	34.56	PPBV	95
10) CHLOROMETHANE	3.754	52	685907	34.18	PPBV	97
11) VINYL CHLORIDE	3.913	62	2325794	33.35	PPBV	99
12) 1,3-BUTADIENE	4.010	54	1615444	35.54	PPBV	99
13) n-BUTANE	4.047	43	3126491	34.41	PPBV	97
14) BROMOMETHANE	4.212	94	2579516	35.48	PPBV	100
15) CHLOROETHANE	4.335	64	1043925	35.30	PPBV	99
16) DICHLOROFLUOROMETHANE	4.402	67	5148208	34.47	PPBV	99
17) ACETONITRILE	4.604	41	1797325	33.25	PPBV	100
18) ACROLEIN	4.696	56	856085	35.47	PPBV	99
19) FREON 123	4.720	83	5649979	34.76	PPBV	99
20) FREON 123A	4.763	117	3396789	36.90	PPBV	95
21) TRICHLOROFLUOROMETHANE	4.922	101	5347861	33.77	PPBV	99
22) ISOPROPYL ALCOHOL	5.008	45	2814813	35.00	PPBV	99
23) ACETONE	4.800	58	854983	33.22	PPBV	98
24) PENTANE	5.216	42	1680798	40.27	PPBV	99
25) IODOMETHANE	5.399	142	5667109	42.89	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.466	96	1686480	40.03	PPBV	99
27) CARBON DISULFIDE	5.834	76	4719896	38.58	PPBV	99
28) ETHANOL	4.439	45	1045319	30.51	PPBV	100
29) BROMOETHENE	4.598	106	2593532	36.84	PPBV	99
30) ACRYLONITRILE	5.185	52	1015671	41.65	PPBV	100
31) METHYLENE CHLORIDE	5.577	84	1513955	38.23	PPBV	99
32) 3-CHLOROPROPENE	5.681	76	786083	39.39	PPBV	99
33) FREON 113	5.803	151	3337642	42.59	PPBV	98
34) TRANS-1,2-DICHLOROETHYLENE	6.433	96	1847874	40.91	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.522	59	2802992	36.24	PPBV	99
36) METHYL TERTIARY BUTYL ETHER	6.684	73	4784081	41.64	PPBV	99
37) TETRAHYDROFURAN	8.213	72	796260	40.37	PPBV	99
38) HEXANE	7.693	57	2975650	47.22	PPBV	94
39) VINYL ACETATE	6.794	86	351807	43.59	PPBV	96
40) 1,1-DICHLOROETHANE	6.635	63	3126939	40.40	PPBV	99
41) METHYL ETHYL KETONE	7.033	72	829209	41.41	PPBV	99
42) cis-1,2-DICHLOROETHYLENE	7.485	96	2014871	42.45	PPBV	99
43) DIISOPROPYL ETHER	7.699	59	899567	47.22	PPBV	# 89
44) ETHYL ACETATE	7.730	61	602807	42.33	PPBV	# 95
45) METHYL ACRYLATE	7.718	55	3489782	44.45	PPBV	98
46) CHLOROFORM	7.803	83	4050601	39.58	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.654	57	3041808	42.21	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.868	97	4577105	42.72	PPBV	99
49) CARBON TETRACHLORIDE	9.553	117	5195370	43.17	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w56004.D
 Acq On : 9 Jan 2025 7:49 am
 Operator : thomash
 Sample : ic2144-40
 Misc : MS88386,V5W2144,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:52 2025
 Quant Method : C:\msdchem\1\methods\M5w2144.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Thu Jan 09 09:18:24 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.593	62	2783787	43.08	PPBV	99
52) BENZENE	9.388	78	5575931	46.96	PPBV	100
53) CYCLOHEXANE	9.688	84	2227364	45.74	PPBV	100
54) 2,3-DIMETHYLPENTANE	9.994	71	1178604	47.52	PPBV	97
55) TRICHLOROETHYLENE	10.648	95	3029245	49.43	PPBV	99
56) 1,2-DICHLOROPROPANE	10.348	63	2149668	46.09	PPBV	98
57) DIBROMOMETHANE	10.330	174	3216239	51.09	PPBV	97
58) ETHYL ACRYLATE	10.397	55	3866736	45.31	PPBV	100
59) BROMODICHLOROMETHANE	10.599	83	5107482	46.16	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	10.679	57	8140990	45.18	PPBV	99
61) 1,4-DIOXANE	10.648	88	1380216	46.31	PPBV #	4
62) HEPTANE	11.021	43	3121426	46.72	PPBV	99
63) METHYL METHACRYLATE	10.930	69	1918384	45.76	PPBV	94
64) METHYL ISOBUTYL KETONE	11.774	58	1646344	46.98	PPBV	98
65) cis-1,3-DICHLOROPROPENE	11.725	75	3878154	48.30	PPBV	82
66) TOLUENE	12.955	92	4335330	47.50	PPBV	97
67) 1,3-DICHLOROPROPANE	13.004	76	3351482	43.99	PPBV #	99
68) trans-1,3-DICHLOROPROPENE	12.404	75	3512148	46.55	PPBV	99
69) 1,1,2-TRICHLOROETHANE	12.606	83	2416703	47.05	PPBV	99
71) 2-HEXANONE	13.346	58	2486289	36.99	PPBV	97
72) ETHYL METHACRYLATE	13.383	69	3557297	35.63	PPBV	99
73) TETRACHLOROETHYLENE	14.460	164	3513468	39.53	PPBV	99
74) DIBROMOCHLOROMETHANE	13.505	129	6133323	36.67	PPBV	99
75) 1,2-DIBROMOETHANE	13.823	107	4715997	37.92	PPBV	100
76) OCTANE	14.325	43	4800379	37.99	PPBV	98
77) 1,1,1,2-TETRACHLOROETHANE	15.389	131	4417529	41.70	PPBV	99
78) CHLOROBENZENE	15.408	112	6693342	38.60	PPBV	99
79) ETHYLBENZENE	15.958	91	9574223	37.00	PPBV	97
80) m,p-XYLENE	16.240	106	7978307	75.80	PPBV	93
81) o-XYLENE	16.901	106	4144196	40.59	PPBV	94
82) STYRENE	16.748	104	5970343	38.48	PPBV	98
83) NONANE	17.310	43	4905607	36.69	PPBV	98
84) BROMOFORM	16.289	173	6432057	38.53	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	16.907	83	6816037	38.50	PPBV	98
87) 1,2,3-TRICHLOROPROPANE	17.096	75	4119611	34.54	PPBV	98
88) ISOPROPYLBENZENE	17.818	105	10798380	35.50	PPBV	96
89) BROMOBENZENE	17.910	77	5169169	35.28	PPBV	99
90) 2-CHLOROTOLUENE	18.546	126	3059482	36.70	PPBV	100
91) n-PROPYLBENZENE	18.638	120	3133720	36.69	PPBV	99
92) 4-ETHYLTOLUENE	18.877	105	10770860	35.82	PPBV	95
93) 1,3,5-TRIMETHYLBENZENE	19.011	105	9069061	36.54	PPBV	97
94) ALPHA-METHYLSTYRENE	19.256	118	5009441	36.98	PPBV	100
95) tert-BUTYLBENZENE	19.617	134	2514308	42.97	PPBV #	83
96) 1,2,4-TRIMETHYLBENZENE	19.629	105	10058533	37.60	PPBV	96
97) m-DICHLOROBENZENE	19.825	146	7654903	36.91	PPBV	97
98) BENZYL CHLORIDE	19.819	91	9367441	36.86	PPBV	97
99) p-DICHLOROBENZENE	19.929	146	7096089	37.01	PPBV	98
100) sec-BUTYLBENZENE	20.021	134	2677703	38.31	PPBV #	76
101) 1,2,3-TRIMETHYLBENZENE	20.241	105	9874415	36.86	PPBV #	95
102) p-ISOPROPYLTOLUENE	20.265	134	3260667	39.67	PPBV #	81
103) o-DICHLOROBENZENE	20.406	146	6669438	36.22	PPBV	97
104) n-BUTYLBENZENE	20.859	134	3237040	39.92	PPBV #	79
105) HEXACHLOROETHANE	21.317	117	5546503	40.89	PPBV	97
106) HEXACHLOROBUTADIENE	23.367	225	7589685	43.00	PPBV	96
107) 1,2,4-TRICHLOROBENZENE	23.226	180	6578217	40.77	PPBV	99
108) NAPHTHALENE	22.890	128	12693881	33.43	PPBV	93
110) TVHC as equiv Pentane	5.210	TIC	10891547	40.07	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56004.D
Acq On : 9 Jan 2025 7:49 am
Operator : thomash
Sample : ic2144-40
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:09:52 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

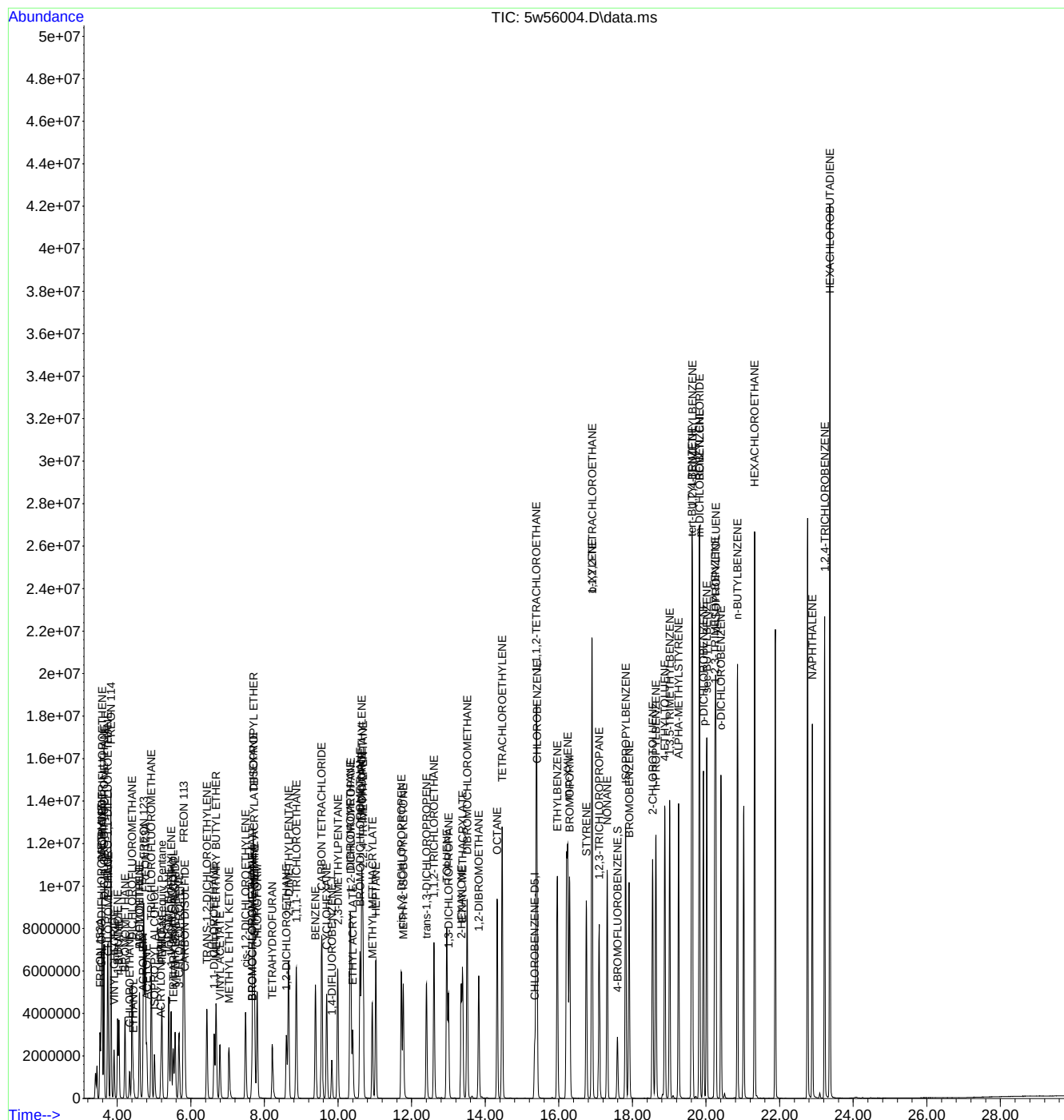
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\  
Data File : 5w56004.D  
Acq On : 9 Jan 2025 7:49 am  
Operator : thomash  
Sample : ic2144-40  
Misc : MS8386,V5W2144,,,,,1  
ALS Vial : 2 Sample Multiplier: 1
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Quant Time: Jan 09 17:09:52 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w56005.D
 Acq On : 9 Jan 2025 8:36 am
 Operator : thomash
 Sample : ic2144-50
 Misc : MS88386,V5W2144,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:10:05 2025
 Quant Method : C:\msdchem\1\methods\M5w2144.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Thu Jan 09 09:18:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.663	128	497435	10.00	PPBV	0.01
51) 1,4-DIFLUOROBENZENE	9.829	114	1886774	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.347	82	1356790	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.663	128	497435	10.00	PPBV	# 0.01

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	17.592	95	1243016	7.57	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	75.70%

Target Compounds						Qvalue
3) FREON 152A	3.527	65	1749664	53.26	PPBV	100
4) CHLORODIFLUOROMETHANE	3.558	67	897522	53.58	PPBV	100
5) CHLOROTRIFLUOROETHENE	3.589	116	4418612	52.80	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.638	85	7524551	45.81	PPBV	97
7) PROPYLENE	3.582	41	2025072	50.85	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.735	65	6709737	40.34	PPBV	98
9) FREON 114	3.821	85	8385821	39.07	PPBV	93
10) CHLOROMETHANE	3.754	52	867377	40.28	PPBV	98
11) VINYL CHLORIDE	3.913	62	2901207	38.75	PPBV	99
12) 1,3-BUTADIENE	4.011	54	2028131	41.57	PPBV	98
13) n-BUTANE	4.047	43	3901013	40.00	PPBV	97
14) BROMOMETHANE	4.213	94	3234642	41.45	PPBV	100
15) CHLOROETHANE	4.335	64	1310686	41.30	PPBV	99
16) DICHLOROFLUOROMETHANE	4.402	67	6364290	39.70	PPBV	99
17) ACETONITRILE	4.604	41	2216393	38.20	PPBV	100
18) ACROLEIN	4.696	56	1070913	41.34	PPBV	99
19) FREON 123	4.714	83	6969297	39.95	PPBV	98
20) FREON 123A	4.757	117	4245728	42.97	PPBV	93
21) TRICHLOROFLUOROMETHANE	4.922	101	7105408	41.81	PPBV	98
22) ISOPROPYL ALCOHOL	5.008	45	3532732	40.93	PPBV	99
23) ACETONE	4.800	58	1064429	38.53	PPBV	96
24) PENTANE	5.210	42	2186622	48.81	PPBV	99
25) IODOMETHANE	5.399	142	7499312	52.88	PPBV	98
26) 1,1-DICHLOROETHYLENE	5.461	96	2210434	48.88	PPBV	98
27) CARBON DISULFIDE	5.834	76	6100461	46.45	PPBV	99
28) ETHANOL	4.439	45	1302028	35.40	PPBV	99
29) BROMOETHENE	4.598	106	3274098	43.33	PPBV	99
30) ACRYLONITRILE	5.185	52	1335961	51.04	PPBV	100
31) METHYLENE CHLORIDE	5.577	84	1953852	45.97	PPBV	99
32) 3-CHLOROPROPENE	5.675	76	1016926	47.47	PPBV	99
33) FREON 113	5.803	151	4499942	53.50	PPBV	97
34) TRANS-1,2-DICHLOROETHYLENE	6.433	96	2457622	50.69	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.522	59	3477527	41.90	PPBV	99
36) METHYL TERTIARY BUTYL ETHER	6.684	73	6261123	50.78	PPBV	99
37) TETRAHYDROFURAN	8.214	72	1048188	49.51	PPBV	98
38) HEXANE	7.694	57	3906208	57.75	PPBV	92
39) VINYL ACETATE	6.794	86	462885	53.44	PPBV	# 93
40) 1,1-DICHLOROETHANE	6.635	63	4088054	49.21	PPBV	99
41) METHYL ETHYL KETONE	7.033	72	1087644	50.61	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.486	96	2672106	52.45	PPBV	98
43) DIISOPROPYL ETHER	7.700	59	1186878	58.05	PPBV	# 84
44) ETHYL ACETATE	7.730	61	784784	51.35	PPBV	# 94
45) METHYL ACRYLATE	7.718	55	4530336	53.76	PPBV	98
46) CHLOROFORM	7.804	83	5279616	48.07	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.654	57	4017217	51.93	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.868	97	6061383	52.71	PPBV	99
49) CARBON TETRACHLORIDE	9.553	117	6881483	53.28	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w56005.D
 Acq On : 9 Jan 2025 8:36 am
 Operator : thomash
 Sample : ic2144-50
 Misc : MS88386,V5W2144,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:10:05 2025
 Quant Method : C:\msdchem\1\methods\M5w2144.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Thu Jan 09 09:18:24 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.593	62	3699368	53.34	PPBV	99
52) BENZENE	9.388	78	7301089	59.20	PPBV	99
53) CYCLOHEXANE	9.688	84	2934434	58.01	PPBV	99
54) 2,3-DIMETHYLPENTANE	9.994	71	1566174	60.78	PPBV	96
55) TRICHLOROETHYLENE	10.648	95	4030473	63.31	PPBV	100
56) 1,2-DICHLOROPROPANE	10.355	63	2813295	58.06	PPBV	98
57) DIBROMOMETHANE	10.330	174	4403598	67.34	PPBV	95
58) ETHYL ACRYLATE	10.404	55	5009422	56.51	PPBV	99
59) BROMODICHLOROMETHANE	10.599	83	6768241	58.89	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	10.679	57	10419434	55.66	PPBV	98
61) 1,4-DIOXANE	10.648	88	1832277	59.18	PPBV #	1
62) HEPTANE	11.028	43	4076581	58.73	PPBV	98
63) METHYL METHACRYLATE	10.930	69	2529551	58.08	PPBV	95
64) METHYL ISOBUTYL KETONE	11.774	58	2175500	59.76	PPBV	95
65) cis-1,3-DICHLOROPROPENE	11.725	75	5144419	61.67	PPBV	82
66) TOLUENE	12.955	92	5758163	60.73	PPBV	95
67) 1,3-DICHLOROPROPANE	13.004	76	4399651	55.59	PPBV #	99
68) trans-1,3-DICHLOROPROPENE	12.404	75	4674960	59.65	PPBV	99
69) 1,1,2-TRICHLOROETHANE	12.606	83	3208086	60.12	PPBV	99
71) 2-HEXANONE	13.346	58	3288192	44.48	PPBV	94
72) ETHYL METHACRYLATE	13.383	69	4663618	42.47	PPBV	99
73) TETRACHLOROETHYLENE	14.466	164	4734534	48.44	PPBV	98
74) DIBROMOCHLOROMETHANE	13.505	129	8078960	43.91	PPBV	98
75) 1,2-DIBROMOETHANE	13.823	107	6285538	45.95	PPBV	100
76) OCTANE	14.331	43	6220766	44.76	PPBV	95
77) 1,1,1,2-TETRACHLOROETHANE	15.390	131	5897106	50.61	PPBV	99
78) CHLOROBENZENE	15.408	112	8787014	46.08	PPBV	99
79) ETHYLBENZENE	15.959	91	12382680	43.51	PPBV	95
80) m,p-XYLENE	16.240	106	10634363	91.86	PPBV	89
81) o-XYLENE	16.907	106	5460474	48.63	PPBV	92
82) STYRENE	16.748	104	7952309	46.60	PPBV	98
83) NONANE	17.317	43	6343459	43.14	PPBV	97
84) BROMOFORM	16.295	173	8534379	46.49	PPBV	98
86) 1,1,2,2-TETRACHLOROETHANE	16.907	83	8688540	44.62	PPBV	97
87) 1,2,3-TRICHLOROPROPANE	17.096	75	5426568	41.37	PPBV	96
88) ISOPROPYLBENZENE	17.818	105	13921490	41.62	PPBV	94
89) BROMOBENZENE	17.910	77	6792368	42.15	PPBV	96
90) 2-CHLOROTOLUENE	18.546	126	4153269	45.30	PPBV	99
91) n-PROPYLBENZENE	18.638	120	4184437	44.54	PPBV	99
92) 4-ETHYLTOLUENE	18.883	105	13700466	41.43	PPBV	92
93) 1,3,5-TRIMETHYLBENZENE	19.017	105	11622862	42.58	PPBV	94
94) ALPHA-METHYLSTYRENE	19.256	118	6681294	44.84	PPBV	99
95) tert-BUTYLBENZENE	19.617	134	3324681	51.66	PPBV #	76
96) 1,2,4-TRIMETHYLBENZENE	19.635	105	12484321	42.43	PPBV	93
97) m-DICHLOROBENZENE	19.825	146	9874832	43.28	PPBV	96
98) BENZYL CHLORIDE	19.819	91	11671042	41.75	PPBV	94
99) p-DICHLOROBENZENE	19.929	146	9204051	43.65	PPBV	96
100) sec-BUTYLBENZENE	20.021	134	3558456	46.29	PPBV #	64
101) 1,2,3-TRIMETHYLBENZENE	20.241	105	12487851	42.38	PPBV #	92
102) p-ISOPROPYLTOLUENE	20.272	134	4287515	47.43	PPBV #	72
103) o-DICHLOROBENZENE	20.412	146	8710849	43.02	PPBV	96
104) n-BUTYLBENZENE	20.859	134	4311237	48.34	PPBV #	67
105) HEXACHLOROETHANE	21.318	117	7025634	47.09	PPBV	94
106) HEXACHLOROBUTADIENE	23.367	225	9570477	49.30	PPBV	95
107) 1,2,4-TRICHLOROBENZENE	23.226	180	8724184	49.16	PPBV	97
108) NAPHTHALENE	22.890	128	15541142	37.21	PPBV	89
110) TVHC as equiv Pentane	5.210	TIC	14211123	48.71	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56005.D
Acq On : 9 Jan 2025 8:36 am
Operator : thomash
Sample : ic2144-50
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:10:05 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration

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

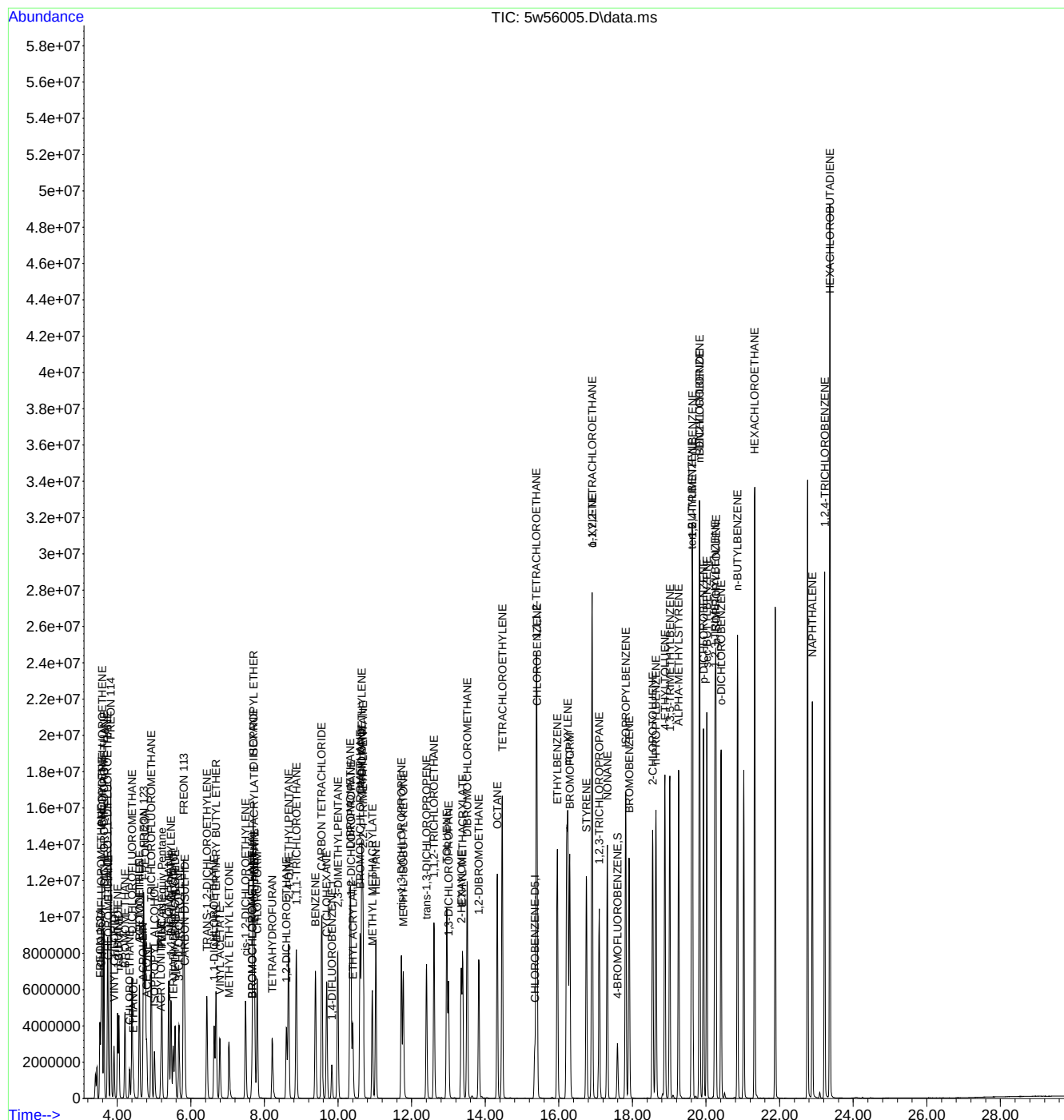
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.7.8

7

Data Path : C:\msdchem\1\data\
Data File : 5w56005.D
Acq On : 9 Jan 2025 8:36 am
Operator : thomash
Sample : ic2144-50
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 09 17:10:05 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 09:18:24 2025
Response via : Initial Calibration



7.7.8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56013.D
Acq On : 9 Jan 2025 3:02 pm
Operator : thomash
Sample : ic2144-0.5
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 09 17:10:25 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 13:16:22 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.645	128	456086	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.816	114	2018572	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.334	82	942297	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.645	128	456086	10.00	PPBV	# 0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	17.580	95	1217626	10.97	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	109.70%

Target Compounds						Qvalue
3) FREON 152A	3.521	65	15241	0.47	PPBV	99
4) CHLORODIFLUOROMETHANE	3.558	67	7516	0.51	PPBV	99
5) CHLOROTRIFLUOROETHENE	3.582	116	36308	0.48	PPBV	100
6) DICHLORODIFLUOROMETHANE	3.631	85	76211	0.52	PPBV	99
7) PROPYLENE	3.582	41	18531	0.51	PPBV	96
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.735	65	80285	0.54	PPBV	99
9) FREON 114	3.821	85	111275	0.59	PPBV	98
10) CHLOROMETHANE	3.754	52	10154	0.51	PPBV	96
11) VINYL CHLORIDE	3.907	62	36603	0.55	PPBV	100
12) 1,3-BUTADIENE	4.004	54	24018	0.53	PPBV	96
13) n-BUTANE	4.041	43	51604	0.55	PPBV #	93
14) BROMOMETHANE	4.206	94	38353	0.53	PPBV	96
15) CHLOROETHANE	4.329	64	16659	0.55	PPBV	95
16) DICHLOROFLUOROMETHANE	4.396	67	82529	0.56	PPBV	99
17) ACETONITRILE	4.610	41	28690	0.52	PPBV	89
18) ACROLEIN	4.702	56	14976	0.62	PPBV	99
19) FREON 123	4.714	83	88981	0.56	PPBV	100
20) FREON 123A	4.757	117	52204	0.58	PPBV	95
21) TRICHLOROFLUOROMETHANE	4.916	101	99789	0.63	PPBV	99
22) ISOPROPYL ALCOHOL	5.038	45	53360	0.61	PPBV	96
23) ACETONE	4.824	58	15980	0.59	PPBV	92
24) PENTANE	5.204	42	22387	0.52	PPBV	99
25) IODOMETHANE	5.393	142	68274	0.54	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.454	96	22110	0.53	PPBV	99
27) CARBON DISULFIDE	5.828	76	63938	0.54	PPBV	98
28) ETHANOL	4.445	45	24515m	0.74	PPBV	
29) BROMOETHENE	4.598	106	37784	0.55	PPBV	99
30) ACRYLONITRILE	5.197	52	12681	0.49	PPBV	96
31) METHYLENE CHLORIDE	5.564	84	22291	0.54	PPBV	97
32) 3-CHLOROPROPENE	5.668	76	9582	0.53	PPBV	85
33) FREON 113	5.797	151	41134	0.53	PPBV	100
34) TRANS-1,2-DICHLOROETHYLENE	6.427	96	22768	0.52	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.577	59	35853	0.50	PPBV	93
36) METHYL TERTIARY BUTYL ALCOHOL	6.727	73	54188	0.52	PPBV	95
37) TETRAHYDROFURAN	8.293	72	8029	0.48	PPBV	92
38) HEXANE	7.687	57	29355	0.50	PPBV	96
39) VINYL ACETATE	6.813	86	2248	0.33	PPBV #	12
40) 1,1-DICHLOROETHANE	6.623	63	40524	0.54	PPBV	98
41) METHYL ETHYL KETONE	7.094	72	8268	0.49	PPBV	94
42) cis-1,2-DICHLOROETHYLENE	7.473	96	24279	0.51	PPBV	96
43) DIISOPROPYL ETHER	7.718	59	8754	0.50	PPBV	97
44) ETHYL ACETATE	7.767	61	6023	0.47	PPBV #	70
45) METHYL ACRYLATE	7.755	55	30525m	0.43	PPBV	
46) CHLOROFORM	7.785	83	53854	0.54	PPBV	90
47) 2,4-DIMETHYLPENTANE	8.648	57	32508	0.51	PPBV	93
48) 1,1,1-TRICHLOROETHANE	8.856	97	54755	0.53	PPBV	100
49) CARBON TETRACHLORIDE	9.547	117	58733	0.51	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w56013.D
 Acq On : 9 Jan 2025 3:02 pm
 Operator : thomash
 Sample : ic2144-0.5
 Misc : MS88386,V5W2144,,,,,1
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 09 17:10:25 2025
 Quant Method : C:\msdchem\1\methods\M5w2144.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Thu Jan 09 13:16:22 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.587	62	32842	0.54	PPBV	100
52) BENZENE	9.382	78	66179	0.51	PPBV	99
53) CYCLOHEXANE	9.682	84	25254	0.49	PPBV	99
54) 2,3-DIMETHYLPENTANE	9.981	71	12636	0.48	PPBV	89
55) TRICHLOROETHYLENE	10.636	95	34247	0.49	PPBV	95
56) 1,2-DICHLOROPROPANE	10.349	63	25751	0.49	PPBV	96
57) DIBROMOMETHANE	10.324	174	33642	0.45	PPBV	99
58) ETHYL ACRYLATE	10.446	55	33016	0.38	PPBV	96
59) BROMODICHLOROMETHANE	10.593	83	59207	0.48	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.667	57	94646	0.50	PPBV	98
61) 1,4-DIOXANE	10.728	88	15343	0.49	PPBV #	1
62) HEPTANE	11.015	43	35336	0.52	PPBV	98
63) METHYL METHACRYLATE	10.960	69	19501	0.47	PPBV #	72
64) METHYL ISOBUTYL KETONE	11.835	58	13893	0.38	PPBV #	84
65) cis-1,3-DICHLOROPROPENE	11.725	75	37941	0.47	PPBV	99
66) TOLUENE	12.955	92	44324	0.47	PPBV	97
67) 1,3-DICHLOROPROPANE	13.004	76	40416	0.51	PPBV #	98
68) trans-1,3-DICHLOROPROPENE	12.410	75	31186	0.40	PPBV	93
69) 1,1,2-TRICHLOROETHANE	12.606	83	27279	0.49	PPBV	99
71) 2-HEXANONE	13.407	58	19233	0.45	PPBV	92
72) ETHYL METHACRYLATE	13.407	69	28149	0.44	PPBV	92
73) TETRACHLOROETHYLENE	14.454	164	37479	0.56	PPBV	99
74) DIBROMOCHLOROMETHANE	13.499	129	60963	0.52	PPBV	99
75) 1,2-DIBROMOETHANE	13.823	107	49397	0.57	PPBV	99
76) OCTANE	14.325	43	43853	0.53	PPBV	98
77) 1,1,1,2-TETRACHLOROETHANE	15.383	131	41997	0.53	PPBV	99
78) CHLOROBENZENE	15.402	112	72039	0.55	PPBV	99
79) ETHYLBENZENE	15.958	91	93974	0.55	PPBV	98
80) m,p-XYLENE	16.234	106	74422	1.08	PPBV	96
81) o-XYLENE	16.901	106	37090	0.55	PPBV	98
82) STYRENE	16.754	104	46145	0.47	PPBV	97
83) NONANE	17.304	43	46521	0.55	PPBV	100
84) BROMOFORM	16.289	173	60883	0.53	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	16.907	83	72801	0.57	PPBV	100
87) 1,2,3-TRICHLOROPROPANE	17.096	75	51055	0.58	PPBV	100
88) ISOPROPYLBENZENE	17.812	105	110859	0.54	PPBV	98
89) BROMOBENZENE	17.910	77	57149	0.54	PPBV	99
90) 2-CHLOROTOLUENE	18.552	126	27937	0.49	PPBV	100
91) n-PROPYLBENZENE	18.638	120	29368	0.53	PPBV	98
92) 4-ETHYLTOLUENE	18.883	105	102867	0.53	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	19.011	105	91963	0.57	PPBV	98
94) ALPHA-METHYLSTYRENE	19.262	118	40082	0.47	PPBV	100
95) tert-BUTYLBENZENE	19.605	134	19550	0.50	PPBV	97
96) 1,2,4-TRIMETHYLBENZENE	19.623	105	97153	0.55	PPBV	95
97) m-DICHLOROBENZENE	19.819	146	79112	0.54	PPBV	97
98) BENZYL CHLORIDE	19.813	91	77001	0.47	PPBV	99
99) p-DICHLOROBENZENE	19.923	146	81678	0.59	PPBV	99
100) sec-BUTYLBENZENE	20.015	134	25272	0.54	PPBV #	89
101) 1,2,3-TRIMETHYLBENZENE	20.235	105	97314	0.56	PPBV #	99
102) p-ISOPROPYLTOLUENE	20.259	134	30867	0.55	PPBV	97
103) o-DICHLOROBENZENE	20.406	146	81480	0.61	PPBV	99
104) n-BUTYLBENZENE	20.853	134	26648	0.50	PPBV	90
105) HEXACHLOROETHANE	21.318	117	50091	0.53	PPBV	99
106) HEXACHLOROBUTADIENE	23.367	225	65013	0.50	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	23.226	180	83432	0.62	PPBV	100
108) NAPHTHALENE	22.890	128	202362	0.68	PPBV	99
110) TVHC as equiv Pentane	5.204	TIC	147270	0.54	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56013.D
Acq On : 9 Jan 2025 3:02 pm
Operator : thomash
Sample : ic2144-0.5
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 09 17:10:25 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 13:16:22 2025
Response via : Initial Calibration

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

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

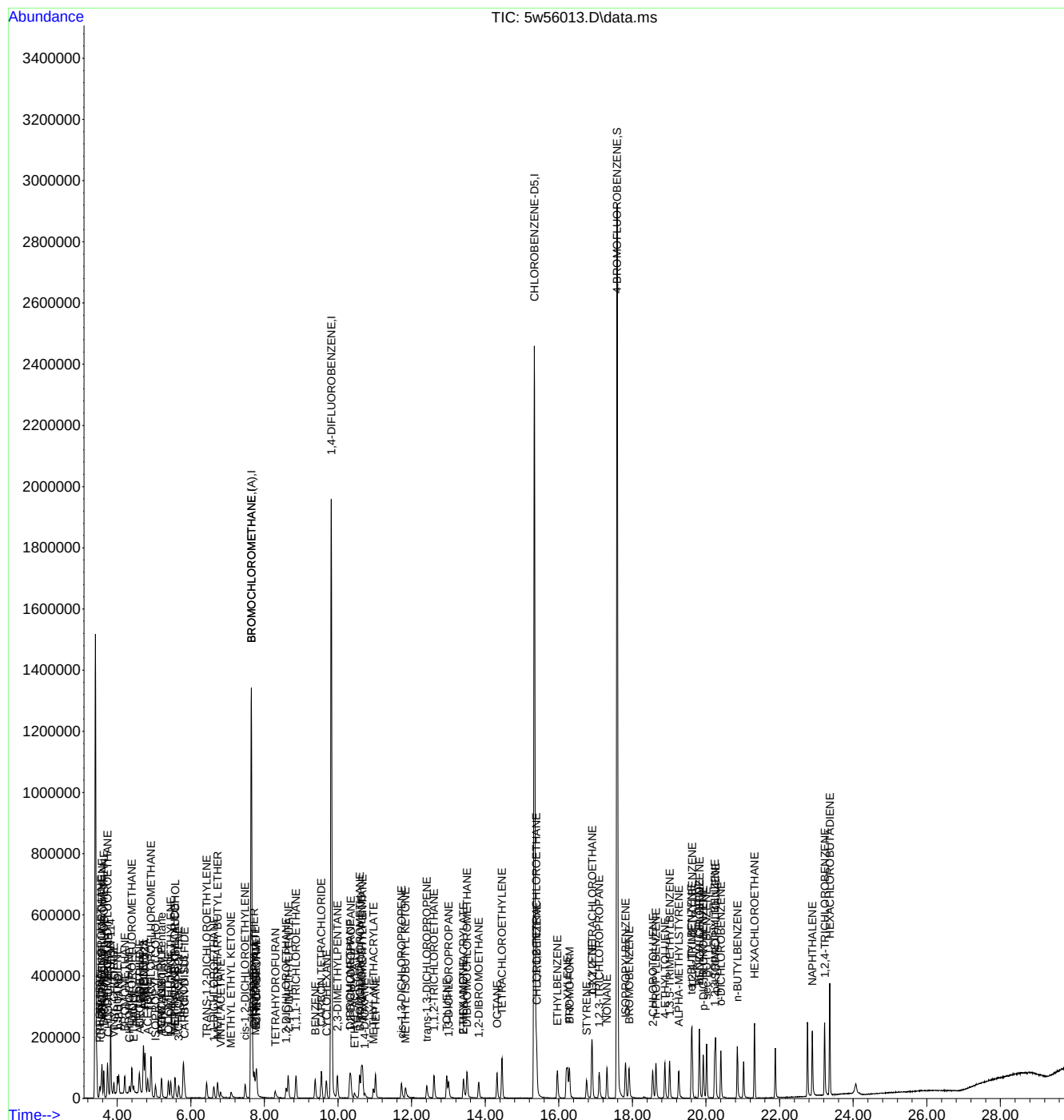
7.7.9

7

Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\  
Data File : 5w56013.D  
Acq On : 9 Jan 2025 3:02 pm  
Operator : thomash  
Sample : ic2144-0.5  
Misc : MS88386,V5W2144,,,,,1  
ALS Vial : 6 Sample Multiplier: 1
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Quant Time: Jan 09 17:10:25 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 13:16:22 2025
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

V5W2144-IC2144

Method:

TO-15

Lab FileID:

5W56013.D

Analyst approved:

01/09/25 17:26 Thomas Hilbig

Injection Time:

01/09/25 15:02

Supervisor approved:

01/09/25 21:50 Kanya Veerawat

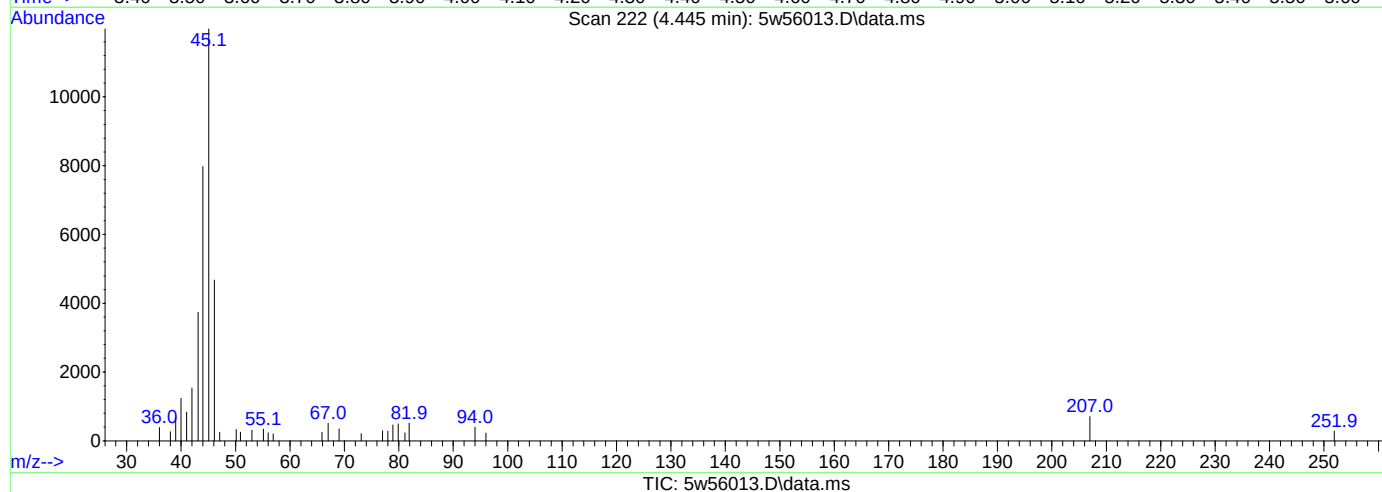
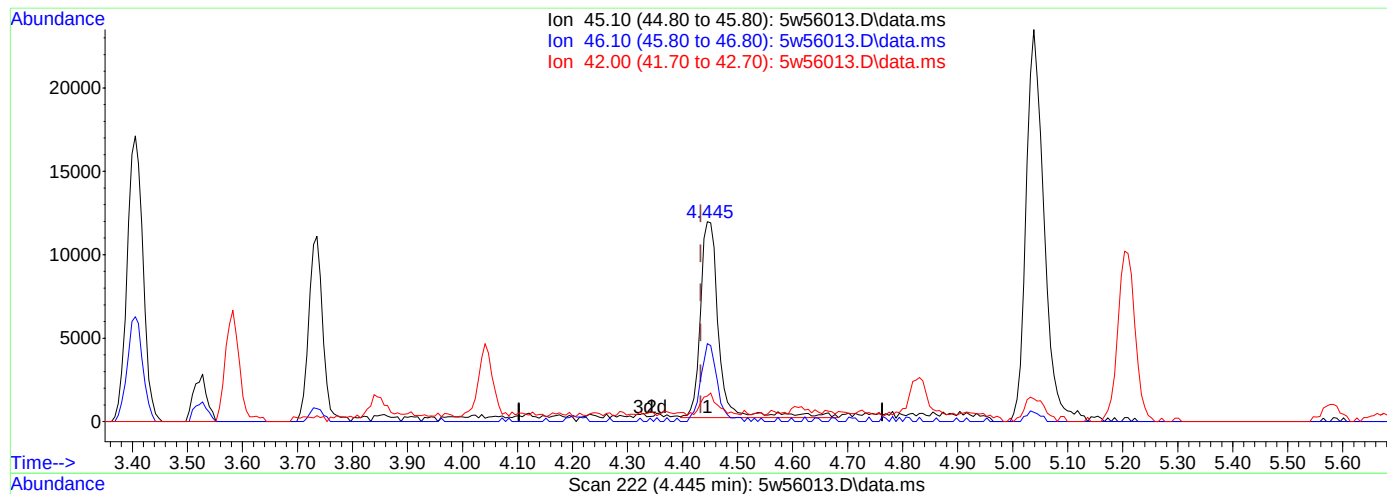
Parameter	CAS	Sig#	R.T. (min.)	Reason

Ethanol	64-17-5		4.44	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w56013.D
Acq On : 9 Jan 2025 3:02 pm
Operator : thomash
Sample : ic2144-0.5
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 09 16:20:21 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 13:16:22 2025
Response via : Initial Calibration



(28) ETHANOL

4.445min (+0.012) 0.82PPBV

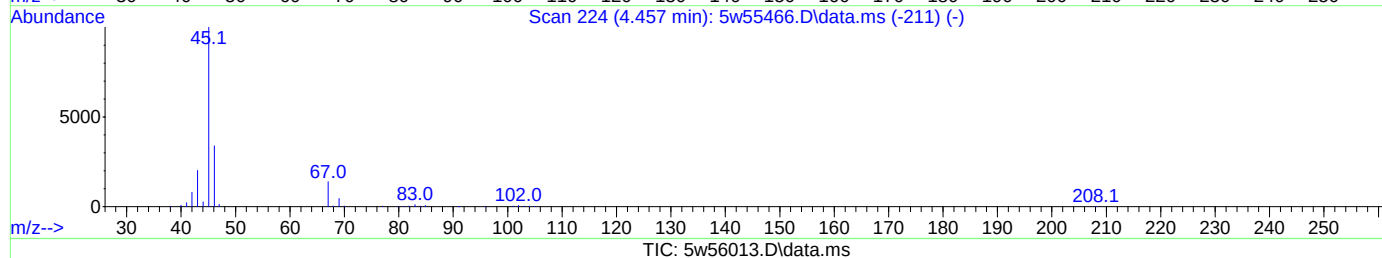
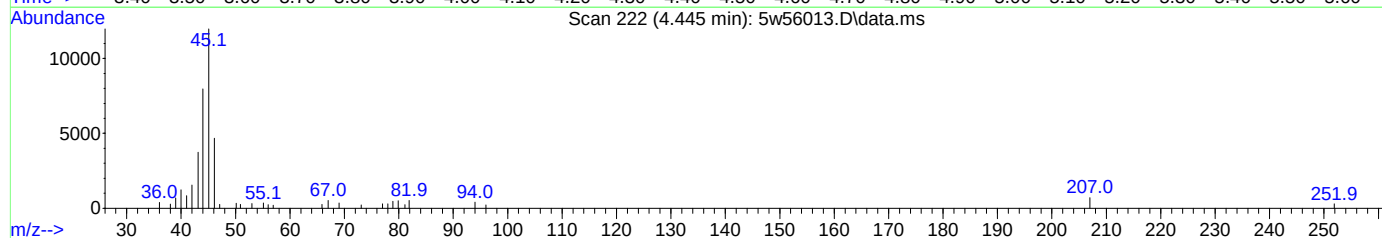
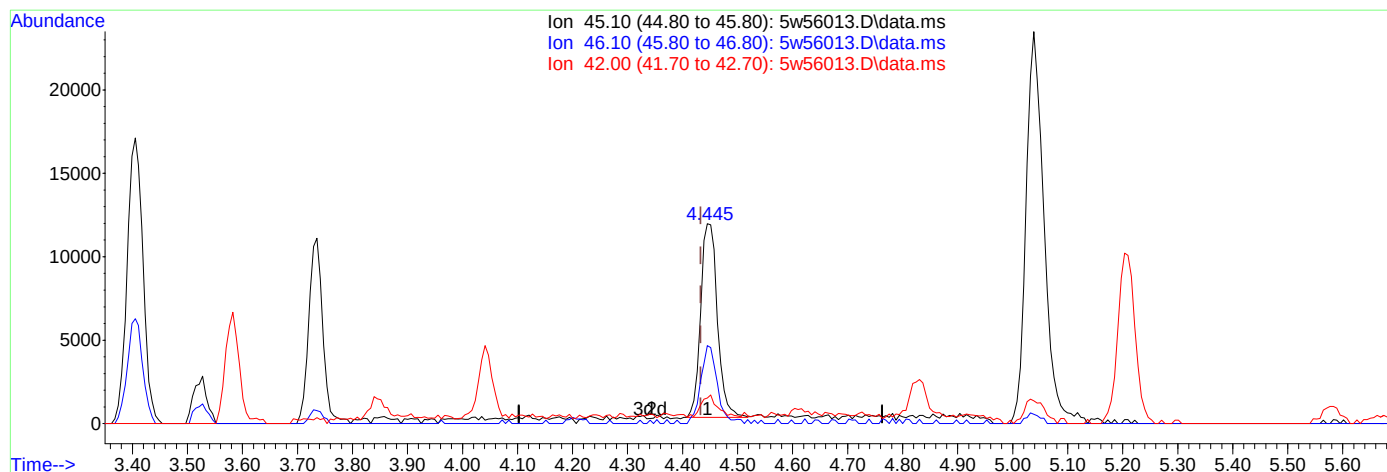
response 27395

Ion	Exp%	Act%
45.10	100	100
46.10	34.80	35.66
42.00	8.60	9.51
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w56013.D
Acq On : 9 Jan 2025 3:02 pm
Operator : thomash
Sample : ic2144-0.5
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 09 16:20:21 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 13:16:22 2025
Response via : Initial Calibration



(28) ETHANOL

4.445min (+0.012) 0.74PPBV m

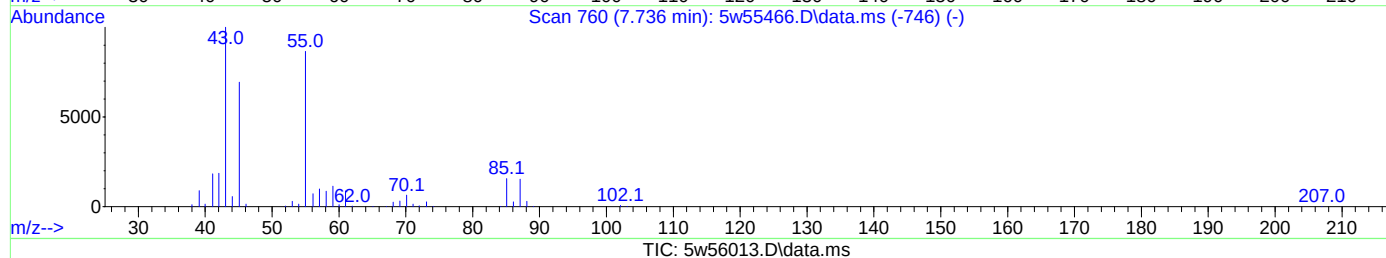
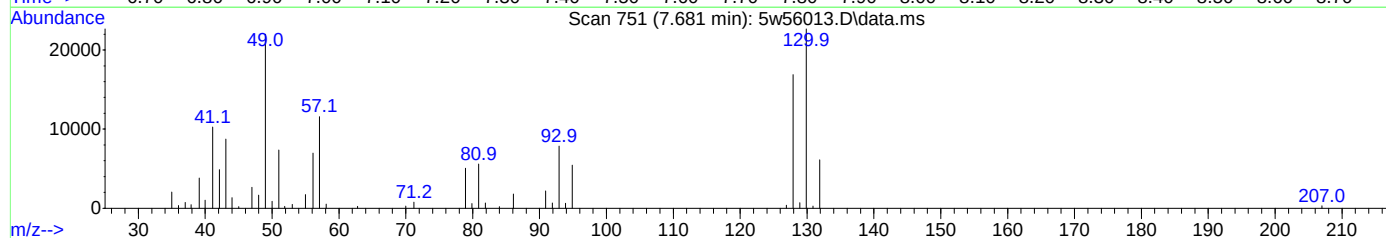
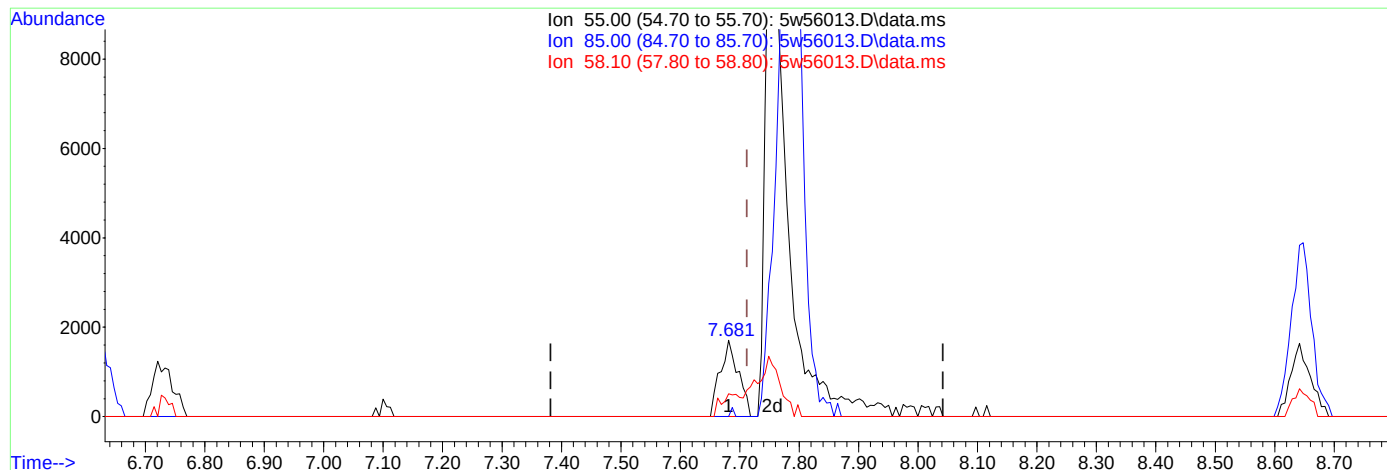
response 24515

Ion	Exp%	Act%
45.10	100	100
46.10	34.80	39.84
42.00	8.60	10.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w56013.D
Acq On : 9 Jan 2025 3:02 pm
Operator : thomash
Sample : ic2144-0.5
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 09 16:20:21 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 13:16:22 2025
Response via : Initial Calibration



(45) METHYL ACRYLATE

7.681min (-0.031) 0.05PPBV

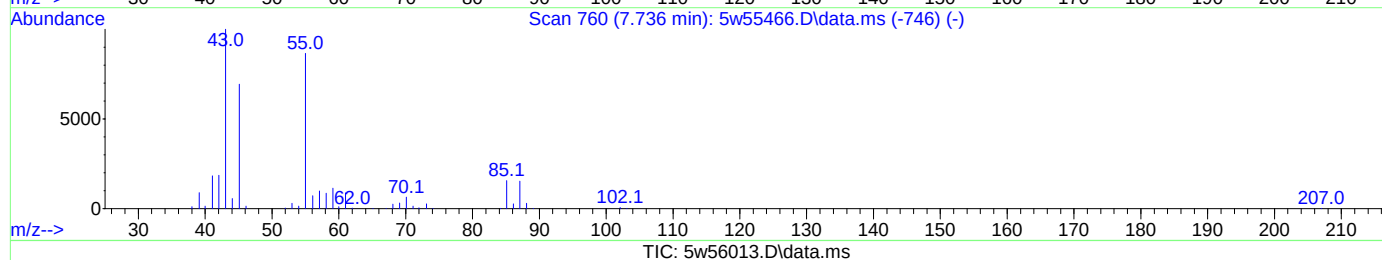
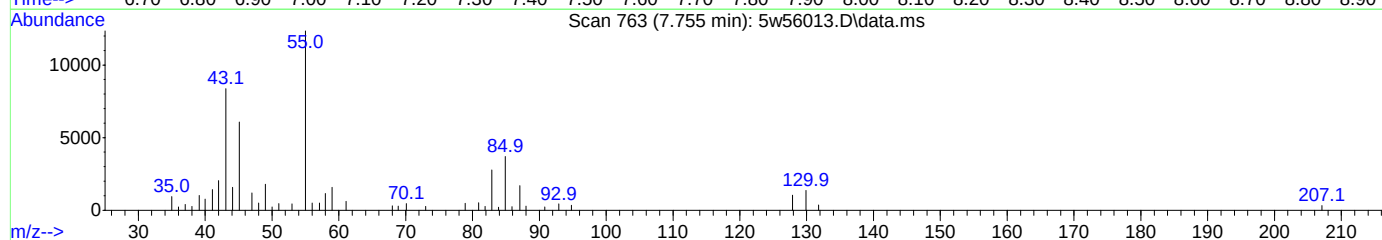
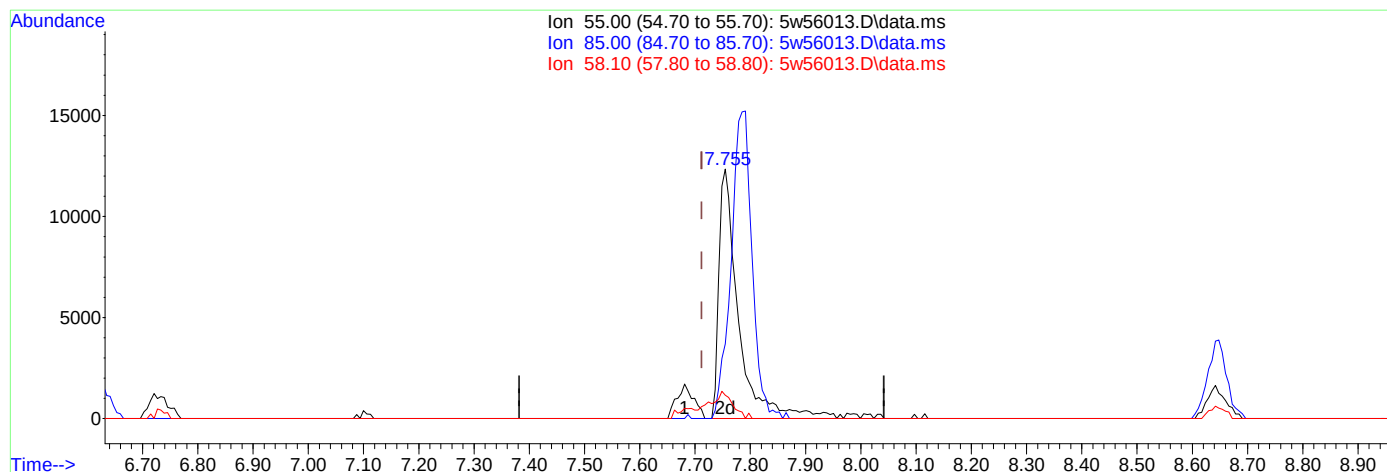
response 3642

Ion	Exp%	Act%
55.00	100	100
85.00	16.90	0.00#
58.10	13.60	33.99#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w56013.D
Acq On : 9 Jan 2025 3:02 pm
Operator : thomash
Sample : ic2144-0.5
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 09 16:20:21 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 13:16:22 2025
Response via : Initial Calibration



(45) METHYL ACRYLATE

7.755min (+0.043) 0.43PPBV m

response 30525

Ion	Exp%	Act%
55.00	100	100
85.00	16.90	0.00#
58.10	13.60	4.06#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w56014.D
 Acq On : 9 Jan 2025 3:42 pm
 Operator : thomash
 Sample : icv2144-10
 Misc : MS88386,V5W2144,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 09 19:05:23 2025
 Quant Method : C:\msdchem\1\methods\M5w2144.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Thu Jan 09 19:02:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.657	128	414799	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.822	114	1807166	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.340	82	948197	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.657	128	414799	10.00	PPBV	# 0.00

System Monitoring Compounds
 85) 4-BROMOFLUOROBENZENE 17.586 95 1154701 10.34 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 103.40%

Target Compounds						Qvalue
3) FREON 152A	3.527	65	289227	9.84	PPBV	99
4) CHLORODIFLUOROMETHANE	3.564	67	145482	10.90	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.588	116	717923	10.55	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.637	85	1428178	10.81	PPBV	99
7) PROPYLENE	3.582	41	351523	10.58	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.741	65	1452477	10.82	PPBV	100
9) FREON 114	3.827	85	1964258	11.42	PPBV	100
10) CHLOROMETHANE	3.754	52	183601	10.15	PPBV	96
11) VINYL CHLORIDE	3.913	62	635896	10.39	PPBV	99
12) 1,3-BUTADIENE	4.010	54	433278	10.58	PPBV	99
13) n-BUTANE	4.047	43	884387	10.31	PPBV	100
14) BROMOMETHANE	4.212	94	679544	10.33	PPBV	100
15) CHLOROETHANE	4.335	64	276572	10.00	PPBV	99
16) DICHLOROFLUOROMETHANE	4.402	67	1440521	10.75	PPBV	100
17) ACETONITRILE	4.598	41	510952	10.26	PPBV	100
18) ACROLEIN	4.696	56	236797	10.75	PPBV	99
19) FREON 123	4.714	83	1504243	10.39	PPBV	98
20) FREON 123A	4.757	117	832752	10.20	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.922	101	1628930	11.20	PPBV	100
22) ISOPROPYL ALCOHOL	5.008	45	795358	10.35	PPBV	99
23) ACETONE	4.800	58	241144	9.76	PPBV	100
24) PENTANE	5.210	42	405457	10.44	PPBV	99
25) IODOMETHANE	5.399	142	1277549	11.15	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.460	96	402593	10.54	PPBV	100
27) CARBON DISULFIDE	5.834	76	1232259	11.53	PPBV	100
28) ETHANOL	4.433	45	262756	8.81	PPBV	99
29) BROMOETHENE	4.598	106	663348	10.65	PPBV	99
30) ACRYLONITRILE	5.185	52	243515	10.51	PPBV	99
31) METHYLENE CHLORIDE	5.570	84	381826	10.16	PPBV	100
32) 3-CHLOROPROPENE	5.674	76	186992	11.37	PPBV	98
33) FREON 113	5.797	151	758044	10.68	PPBV	100
34) TRANS-1,2-DICHLOROETHYLENE	6.433	96	430829	10.75	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.522	59	758894	11.73	PPBV	100
36) METHYL TERTIARY BUTYL ALCOHOL	6.690	73	1109262	11.66	PPBV	100
37) TETRAHYDROFURAN	8.226	72	187579	12.41	PPBV	99
38) HEXANE	7.687	57	599216	11.08	PPBV	100
39) VINYL ACETATE	6.788	86	77821	12.73	PPBV	99
40) 1,1-DICHLOROETHANE	6.629	63	736903	10.78	PPBV	99
41) METHYL ETHYL KETONE	7.039	72	191185	12.50	PPBV	99
42) cis-1,2-DICHLOROETHYLENE	7.479	96	452352	10.39	PPBV	99
43) DIISOPROPYL ETHER	7.699	59	182415	11.28	PPBV	99
44) ETHYL ACETATE	7.730	61	138032	11.95	PPBV	# 99
45) METHYL ACRYLATE	7.718	55	768621	11.94	PPBV	99
46) CHLOROFORM	7.797	83	1013419	11.10	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.648	57	693520	11.91	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.862	97	1057653	11.19	PPBV	100
49) CARBON TETRACHLORIDE	9.553	117	1154512	11.07	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w56014.D
 Acq On : 9 Jan 2025 3:42 pm
 Operator : thomash
 Sample : icv2144-10
 Misc : MS88386,V5W2144,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 09 19:05:23 2025
 Quant Method : C:\msdchem\1\methods\M5w2144.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Thu Jan 09 19:02:22 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.593	62	632294	11.36	PPBV	100
52) BENZENE	9.382	78	1307052	11.20	PPBV	99
53) CYCLOHEXANE	9.688	84	521326	11.45	PPBV	99
54) 2,3-DIMETHYLPENTANE	9.987	71	263997	11.29	PPBV	100
55) TRICHLOROETHYLENE	10.642	95	639549	10.27	PPBV	100
56) 1,2-DICHLOROPROPANE	10.348	63	487681	10.40	PPBV	99
57) DIBROMOMETHANE	10.324	174	668080	9.97	PPBV	99
58) ETHYL ACRYLATE	10.397	55	918706	11.94	PPBV	100
59) BROMODICHLOROMETHANE	10.593	83	1165557	10.59	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	10.673	57	1912600	11.40	PPBV	100
61) 1,4-DIOXANE	10.660	88	300368	10.89	PPBV #	58
62) HEPTANE	11.015	43	721875	11.79	PPBV	99
63) METHYL METHACRYLATE	10.923	69	458096	12.41	PPBV	100
64) METHYL ISOBUTYL KETONE	11.780	58	379009	11.86	PPBV	100
65) cis-1,3-DICHLOROPROPENE	11.719	75	802724	11.11	PPBV	99
66) TOLUENE	12.955	92	957244	11.35	PPBV	100
67) 1,3-DICHLOROPROPANE	12.997	76	818803	11.63	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.398	75	767637	10.99	PPBV	99
69) 1,1,2-TRICHLOROETHANE	12.600	83	554950	11.21	PPBV	100
71) 2-HEXANONE	13.346	58	551156	12.98	PPBV	99
72) ETHYL METHACRYLATE	13.383	69	831857	12.92	PPBV	99
73) TETRACHLOROETHYLENE	14.460	164	756429	11.31	PPBV	100
74) DIBROMOCHLOROMETHANE	13.499	129	1377497	11.76	PPBV	100
75) 1,2-DIBROMOETHANE	13.817	107	1065269	12.21	PPBV	100
76) OCTANE	14.319	43	1054891	12.69	PPBV	100
77) 1,1,1,2-TETRACHLOROETHANE	15.383	131	890077	11.28	PPBV	100
78) CHLOROBENZENE	15.402	112	1445763	11.08	PPBV	100
79) ETHYLBENZENE	15.952	91	2201691	12.75	PPBV	99
80) m,p-XYLENE	16.228	106	1741866	25.17	PPBV	99
81) o-XYLENE	16.894	106	860563	12.79	PPBV	99
82) STYRENE	16.741	104	1291901	13.17	PPBV	100
83) NONANE	17.304	43	1118648	13.08	PPBV	100
84) BROMOFORM	16.283	173	1378793	12.04	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.900	83	1537996	11.97	PPBV	100
87) 1,2,3-TRICHLOROPROPANE	17.090	75	1008586	11.45	PPBV	100
88) ISOPROPYLBENZENE	17.806	105	2517153	12.22	PPBV	100
89) BROMOBENZENE	17.904	77	1216902	11.51	PPBV	100
90) 2-CHLOROTOLUENE	18.540	126	686676	12.07	PPBV	100
91) n-PROPYLBENZENE	18.632	120	706248	12.87	PPBV	100
92) 4-ETHYLTOLUENE	18.876	105	2534679	12.99	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	19.005	105	2112295	13.16	PPBV	99
94) ALPHA-METHYLSTYRENE	19.250	118	1064001	12.38	PPBV	100
95) tert-BUTYLBENZENE	19.611	134	510851	12.98	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	19.623	105	2316065	13.25	PPBV	100
97) m-DICHLOROBENZENE	19.813	146	1729853	11.91	PPBV	100
98) BENZYL CHLORIDE	19.806	91	2252446	13.17	PPBV	100
99) p-DICHLOROBENZENE	19.916	146	1652733	12.10	PPBV	99
100) sec-BUTYLBENZENE	20.014	134	604242	12.84	PPBV	100
101) 1,2,3-TRIMETHYLBENZENE	20.235	105	2267786	13.19	PPBV #	100
102) p-ISOPROPYLTOLUENE	20.259	134	717149	12.85	PPBV	98
103) o-DICHLOROBENZENE	20.400	146	1565945	11.81	PPBV	100
104) n-BUTYLBENZENE	20.852	134	689513	13.05	PPBV	100
105) HEXACHLOROETHANE	21.311	117	1088044	11.50	PPBV	99
106) HEXACHLOROBUTADIENE	23.349	225	1542754	12.08	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.208	180	1456412	11.83	PPBV	99
108) NAPHTHALENE	22.865	128	3623116	13.66	PPBV	100
110) TVHC as equiv Pentane	5.210	TIC	2587203	10.65	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w56014.D
Acq On : 9 Jan 2025 3:42 pm
Operator : thomash
Sample : icv2144-10
Misc : MS88386,V5W2144,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 09 19:05:23 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

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

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

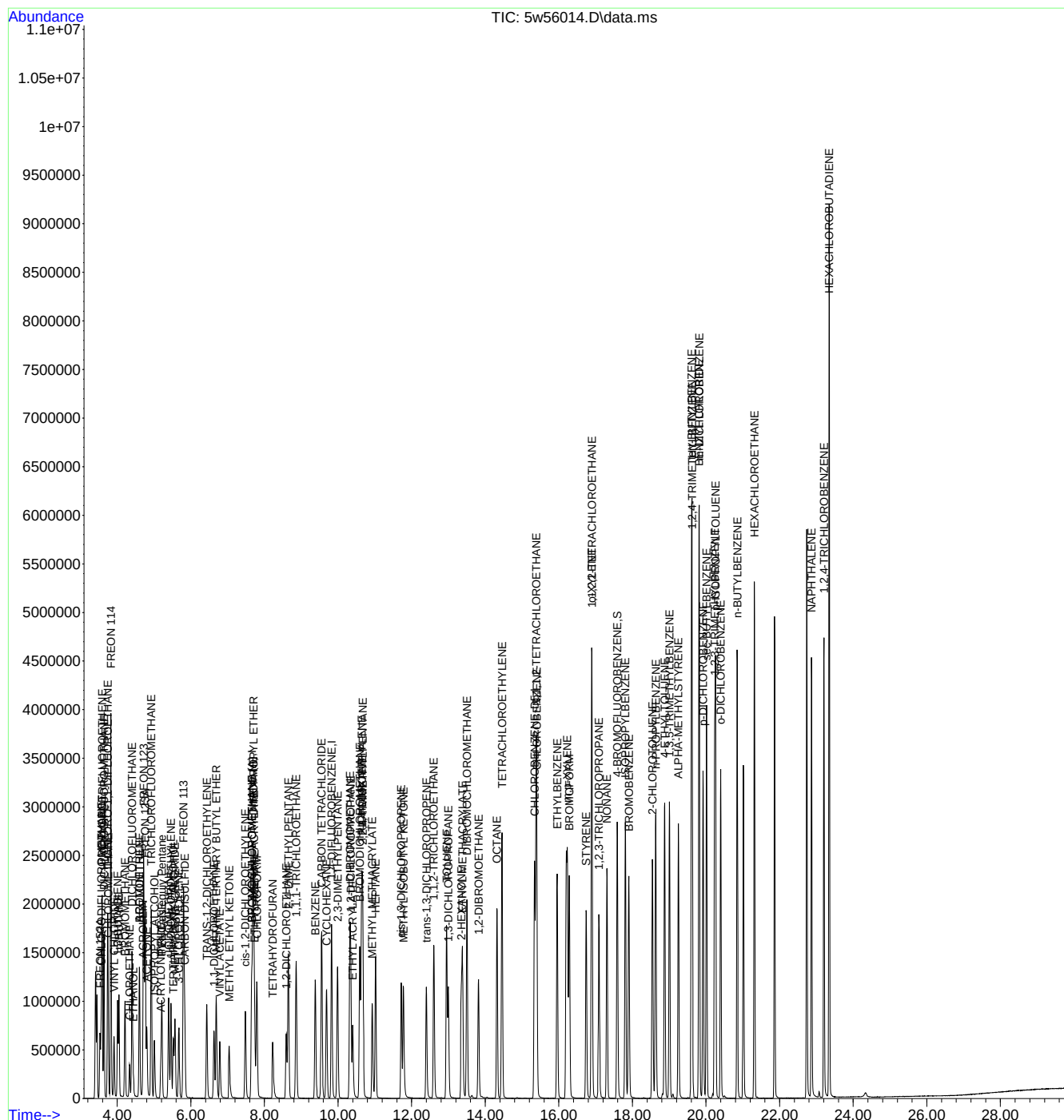
7.7.10

7

Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\  
Data File : 5w56014.D  
Acq On : 9 Jan 2025 3:42 pm  
Operator : thomash  
Sample : icv2144-10  
Misc : MS88386,V5W2144,,,,,1  
ALS Vial : 4 Sample Multiplier: 1
```

Quant Time: Jan 09 19:05:23 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\
 Data File : 5w56523.D
 Acq On : 30 Jan 2025 12:42 pm
 Operator : thomash
 Sample : cc2144-10 Inst : GCMS5W
 Misc : MS89211,V5W2165,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 07:40:24 2025

Quant Method : C:\msdchem\1\methods\M5w2144.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Thu Jan 09 19:02:22 2025

Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.644	128	422377	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.816	114	1833784	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.334	82	937311	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.644	128	422377	10.00	PPBV	# 0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 17.580 95 1235067 11.19 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 111.90%

Target Compounds

Qvalue

3) FREON 152A	3.527	65	293023	9.7931	PPBV	92
4) CHLORODIFLUOROMETHANE	3.558	67	148943	10.9542	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.588	116	796762	11.5007	PPBV	96
6) DICHLORODIFLUOROMETHANE	3.631	85	1511642	11.2401	PPBV	100
7) PROPYLENE	3.582	41	421426	12.4561	PPBV	98
8) 1-CHLORO-1,1-DIFLUOROETHYLENE	3.735	65	1367078	9.9988	PPBV	95
9) FREON 114	3.821	85	1713868	9.7878	PPBV	98
10) CHLOROMETHANE	3.754	52	175773	9.5424	PPBV	86
11) VINYL CHLORIDE	3.906	62	553417	8.8822	PPBV	100
12) 1,3-BUTADIENE	4.004	54	405988	9.7341	PPBV	86
13) n-BUTANE	4.041	43	871098	9.9764	PPBV	96
14) BROMOMETHANE	4.206	94	572630	8.5478	PPBV	98
15) CHLOROETHANE	4.329	64	236317	8.3938	PPBV	92
16) DICHLOROFLUOROMETHANE	4.396	67	1267692	9.2920	PPBV	97
17) ACETONITRILE	4.592	41	494104	9.7416	PPBV	98
18) ACROLEIN	4.690	56	200991	8.9645	PPBV	98
19) FREON 123	4.708	83	1236940	8.3928	PPBV	94
20) FREON 123A	4.751	117	809612	9.7405	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.916	101	1719466	11.6134	PPBV	99
22) ISOPROPYL ALCOHOL	5.002	45	1054280	13.4749	PPBV	99
23) ACETONE	4.794	58	217192	8.6341	PPBV	# 62
24) PENTANE	5.203	42	468334	11.8391	PPBV	97
25) IODOMETHANE	5.393	142	1503522	12.8834	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.454	96	415487	10.6835	PPBV	100
27) CARBON DISULFIDE	5.827	76	1131944	10.3978	PPBV	96
28) ETHANOL	4.426	45	302547	9.9595	PPBV	98
29) BROMOETHENE	4.592	106	569247	8.9725	PPBV	97
30) ACRYLONITRILE	5.179	52	263566	11.1673	PPBV	100
31) METHYLENE CHLORIDE	5.564	84	364934	9.5366	PPBV	85
32) 3-CHLOROPROPENE	5.668	76	181609	10.8426	PPBV	# 79
33) FREON 113	5.791	151	842191	11.6561	PPBV	93
34) TRANS-1,2-DICHLOROETHYLENE	6.427	96	432308	10.5971	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.515	59	737534	11.1948	PPBV	97
36) METHYL TERTIARY BUTYL ETHER	6.684	73	1033793	10.6683	PPBV	94
37) TETRAHYDROFURAN	8.213	72	174268	11.3229	PPBV	# 77
38) HEXANE	7.681	57	631443	11.4698	PPBV	95
39) VINYL ACETATE	6.782	86	74508	11.9704	PPBV	# 63
40) 1,1-DICHLOROETHANE	6.623	63	754446	10.8409	PPBV	98
41) METHYL ETHYL KETONE	7.033	72	177574	11.3991	PPBV	# 71
42) cis-1,2-DICHLOROETHYLENE	7.473	96	464374	10.4730	PPBV	99
43) DIISOPROPYL ETHER	7.693	59	190678	11.5838	PPBV	# 76
44) ETHYL ACETATE	7.724	61	133605	11.3629	PPBV	# 99
45) METHYL ACRYLATE	7.712	55	801702	12.2253	PPBV	98
46) CHLOROFORM	7.785	83	980142	10.5458	PPBV	97
47) 2,4-DIMETHYLPENTANE	8.642	57	715522	12.0662	PPBV	98
48) 1,1,1-TRICHLOROETHANE	8.856	97	1077687	11.1974	PPBV	100
49) CARBON TETRACHLORIDE	9.547	117	1288402	12.1342	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\
Data File : 5w56523.D
Acq On : 30 Jan 2025 12:42 pm
Operator : thomash
Sample : cc2144-10 Inst : GCMS5W
Misc : MS89211,V5W2165,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 07:40:24 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.580	62	663418	11.7066	PPBV	99
52) BENZENE	9.376	78	1220098	10.3042	PPBV	98
53) CYCLOHEXANE	9.675	84	490525	10.6127	PPBV	91
54) 2,3-DIMETHYLPENTANE	9.981	71	242645	10.2247	PPBV #	79
55) TRICHLOROETHYLENE	10.630	95	667887	10.5715	PPBV	98
56) 1,2-DICHLOROPROPANE	10.342	63	490116	10.2956	PPBV	99
57) DIBROMOMETHANE	10.318	174	756350	11.1186	PPBV	93
58) ETHYL ACRYLATE	10.391	55	959075	12.2881	PPBV	99
59) BROMODICHLOROMETHANE	10.587	83	1154126	10.3301	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.667	57	2040051	11.9829	PPBV	99
61) 1,4-DIOXANE	10.648	88	311471	11.1279	PPBV	95
62) HEPTANE	11.009	43	833719	13.4198	PPBV	90
63) METHYL METHACRYLATE	10.917	69	432655	11.5518	PPBV	86
64) METHYL ISOBUTYL KETONE	11.768	58	395594	12.2024	PPBV	87
65) cis-1,3-DICHLOROPROPENE	11.713	75	831086	11.3314	PPBV	94
66) TOLUENE	12.948	92	953273	11.1363	PPBV	100
67) 1,3-DICHLOROPROPANE	12.991	76	773564	10.8282	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.392	75	763151	10.7638	PPBV	95
69) 1,1,2-TRICHLOROETHANE	12.594	83	529064	10.5363	PPBV	97
71) 2-HEXANONE	13.340	58	579738	13.8092	PPBV	88
72) ETHYL METHACRYLATE	13.371	69	767641	12.0655	PPBV	85
73) TETRACHLOROETHYLENE	14.453	164	871569	13.1882	PPBV	95
74) DIBROMOCHLOROMETHANE	13.493	129	1498183	12.9350	PPBV	100
75) 1,2-DIBROMOETHANE	13.811	107	1119199	12.9823	PPBV	99
76) OCTANE	14.313	43	1217272	14.8164	PPBV	92
77) 1,1,1,2-TETRACHLOROETHANE	15.377	131	968037	12.4132	PPBV	100
78) CHLOROBENZENE	15.396	112	1541327	11.9511	PPBV	95
79) ETHYLBENZENE	15.946	91	2220650	13.0080	PPBV	99
80) m,p-XYLENE	16.221	106	1825202	26.6842	PPBV	96
81) o-XYLENE	16.888	106	919687	13.8252	PPBV	95
82) STYRENE	16.741	104	1347172	13.8914	PPBV	97
83) NONANE	17.298	43	1329129	15.7227	PPBV	92
84) BROMOFORM	16.276	173	1696987	14.9871	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.894	83	1519096	11.9622	PPBV	97
87) 1,2,3-TRICHLOROPROPANE	17.084	75	1003446	11.5265	PPBV	96
88) ISOPROPYLBENZENE	17.800	105	2641462	12.9704	PPBV	99
89) BROMOBENZENE	17.898	77	1151552	11.0223	PPBV	82
90) 2-CHLOROTOLUENE	18.534	126	729839	12.9735	PPBV	99
91) n-PROPYLBENZENE	18.626	120	748310	13.7957	PPBV	100
92) 4-ETHYLTOLUENE	18.870	105	2698687	13.9887	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	18.999	105	2248707	14.1735	PPBV	100
94) ALPHA-METHYLSTYRENE	19.244	118	1179152	13.8737	PPBV	99
95) tert-BUTYLBENZENE	19.605	134	537941	13.8231	PPBV	97
96) 1,2,4-TRIMETHYLBENZENE	19.617	105	2437093	14.1056	PPBV	99
97) m-DICHLOROBENZENE	19.806	146	1926544	13.4195	PPBV	97
98) BENZYL CHLORIDE	19.800	91	2178214	12.8872	PPBV	98
99) p-DICHLOROBENZENE	19.910	146	1893424	14.0261	PPBV	97
100) sec-BUTYLBENZENE	20.008	134	652910	14.0343	PPBV	98
101) 1,2,3-TRIMETHYLBENZENE	20.229	105	2410026	14.1767	PPBV #	100
102) p-ISOPROPYLTOLUENE	20.253	134	763382	13.8321	PPBV	97
103) o-DICHLOROBENZENE	20.394	146	1780642	13.5854	PPBV	98
104) n-BUTYLBENZENE	20.846	134	734500	14.0579	PPBV	98
105) HEXACHLOROETHANE	21.305	117	1352037	14.4514	PPBV	95
106) HEXACHLOROBUTADIENE	23.342	225	1955266	15.4906	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.202	180	1780508	14.6307	PPBV	97
108) NAPHTHALENE	22.859	128	3725972	14.2153	PPBV	100
110) TVHC as equiv Pentane	5.203	TIC	2966198	11.9924	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\
Data File : 5W56523.D
Acq On : 30 Jan 2025 12:42 pm
Operator : thomash
Sample : cc2144-10 Inst : GCMS5W
Misc : MS89211,V5W2165,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 07:40:24 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

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

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

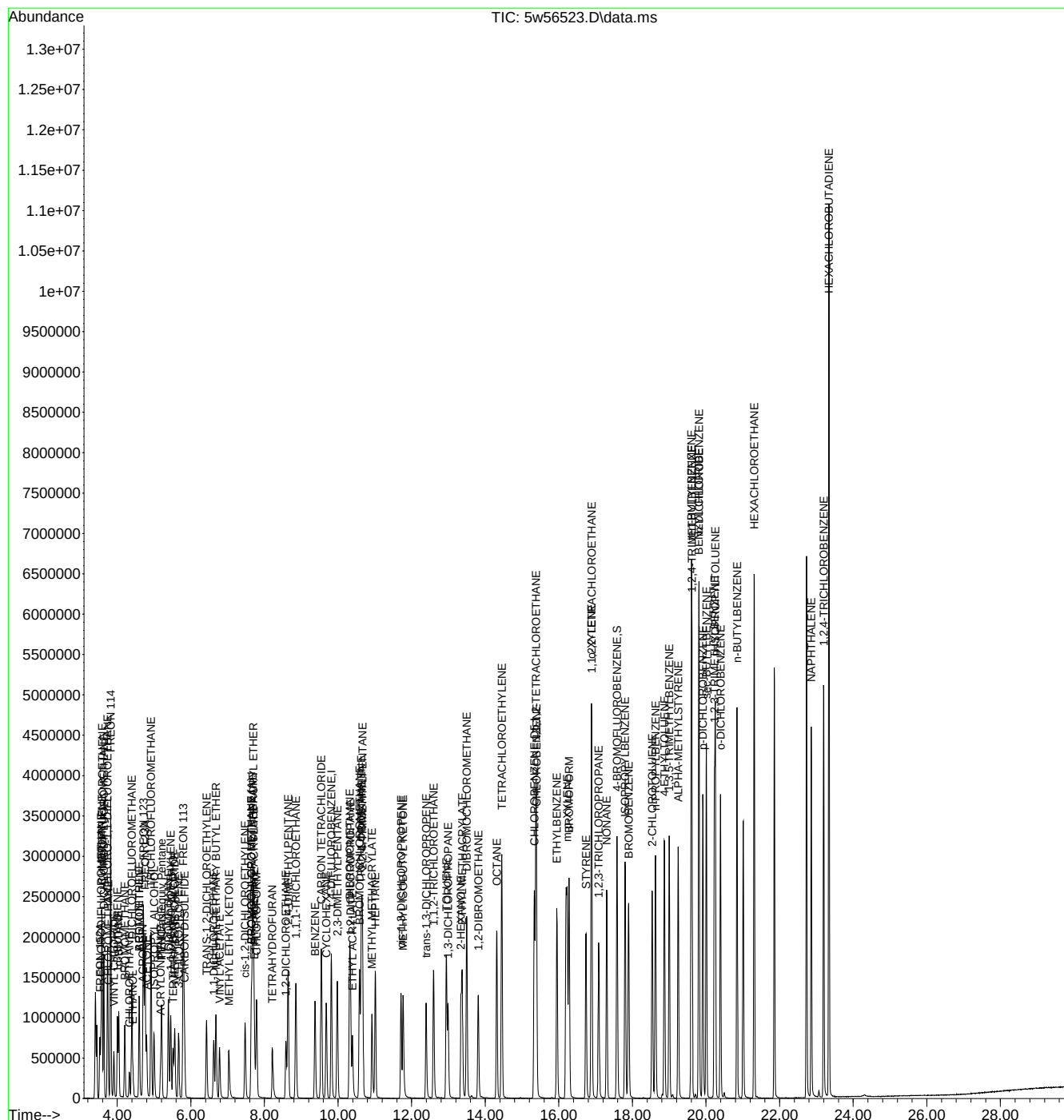
7.7.11

7

Quantitation Report (QT Reviewed)

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Data Path : X:\Dayton VOA GCMS\michaellab\01-31-2025\V5W2165\  
Data File : 5w56523.D  
Acq On    : 30 Jan 2025  12:42 pm  
Operator  : thomash  
Sample    : cc2144-10                      Inst      : GCMS5W  
Misc      : MS89211,V5W2165,,,,,1  
ALS Vial  : 2      Sample Multiplier: 1
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Quant Time: Jan 31 07:40:24 2025
Quant Method : C:\msdchem\1\methods\M5w2144.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 02:13:05 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.565	128	458957	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.731	114	2147588	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	1018488	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.565	128	459208	10.00	PPBV	# 0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	17.500	95	1409870	10.83	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	108.30%

Target Compounds						Qvalue
3) FREON 152A	3.485	65	2380	0.07	PPBV	86
4) CHLORODIFLUOROMETHANE	3.521	67	847	0.06	PPBV	73
5) CHLOROTRIFLUOROETHENE	3.546	116	3464	0.05	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.589	85	6696	0.05	PPBV	98
7) PROPYLENE	3.546	41	2650	0.08	PPBV	77
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.686	65	6200m	0.05	PPBV	
9) FREON 114	3.772	85	7692	0.05	PPBV	94
10) CHLOROMETHANE	3.705	52	1364	0.08	PPBV #	76
11) VINYL CHLORIDE	3.864	62	2688	0.05	PPBV #	85
12) 1,3-BUTADIENE	3.968	54	1704m	0.05	PPBV	
13) n-BUTANE	3.998	43	3073m	0.05	PPBV	
14) BROMOMETHANE	4.158	94	3016	0.05	PPBV #	90
15) CHLOROETHANE	4.280	64	1594	0.06	PPBV #	1
16) DICHLOROFLUOROMETHANE	4.347	67	6017	0.05	PPBV #	96
17) ACETONITRILE	4.567	41	1799	0.05	PPBV #	61
18) ACROLEIN	4.653	56	851m	0.04	PPBV	
19) FREON 123	4.659	83	5812m	0.05	PPBV	
20) FREON 123A	4.696	117	4708	0.06	PPBV	92
21) TRICHLOROFLUOROMETHANE	4.861	101	6399	0.05	PPBV	74
22) ISOPROPYL ALCOHOL	4.996	45	13745m	0.13	PPBV	
23) ACETONE	4.782	58	2796m	0.08	PPBV	
24) PENTANE	5.149	42	2100m	0.05	PPBV	
25) IODOMETHANE	5.326	142	6287	0.05	PPBV	96
26) 1,1-DICHLOROETHYLENE	5.387	96	2313	0.05	PPBV	92
27) CARBON DISULFIDE	5.760	76	5651	0.05	PPBV	75
28) ETHANOL	4.396	45	30026m	0.10	PPBV	
29) BROMOETHENE	4.537	106	2808	0.05	PPBV	97
30) ACRYLONITRILE	5.155	52	4145	0.08	PPBV	86
31) METHYLENE CHLORIDE	5.497	84	4801	0.10	PPBV	95
32) 3-CHLOROPROPENE	5.614	76	827	0.04	PPBV #	38
33) FREON 113	5.724	151	3739	0.04	PPBV	92
34) TRANS-1,2-DICHLOROETHYLENE	6.360	96	2436	0.05	PPBV	87
35) TERTIARY BUTYL ALCOHOL	5.558	59	4227	0.05	PPBV	83
36) METHYL TERTIARY BUTYL ALCOHOL	6.690	73	8366	0.07	PPBV	91
37) TETRAHYDROFURAN	8.281	72	259	0.01	PPBV #	1
38) HEXANE	7.608	57	4312	0.06	PPBV #	68
40) 1,1-DICHLOROETHANE	6.556	63	3996	0.05	PPBV	99
42) cis-1,2-DICHLOROETHYLENE	7.412	96	2513	0.05	PPBV	87
43) DIISOPROPYL ETHER	7.681	59	467	0.02	PPBV #	1
44) ETHYL ACETATE	7.400	61	2981	0.22	PPBV #	38
46) CHLOROFORM	7.712	83	5059	0.05	PPBV	91
47) 2,4-DIMETHYLPENTANE	8.562	57	4761	0.06	PPBV	91
48) 1,1,1-TRICHLOROETHANE	8.776	97	4832	0.05	PPBV	97
49) CARBON TETRACHLORIDE	9.468	117	5354	0.05	PPBV	99
50) 1,2-DICHLOROETHANE	8.526	62	3081	0.04	PPBV #	93
52) BENZENE	9.309	78	6804	0.05	PPBV	98
53) CYCLOHEXANE	9.602	84	2795	0.05	PPBV	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 02:13:05 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54)	2,3-DIMETHYLPENTANE	9.908	71	1171	0.04	PPBV #	38
55)	TRICHLOROETHYLENE	10.563	95	3442	0.05	PPBV	93
56)	1,2-DICHLOROPROPANE	10.287	63	2971	0.05	PPBV	78
57)	DIBROMOMETHANE	10.245	174	4306	0.05	PPBV	94
59)	BROMODICHLOROMETHANE	10.508	83	5558	0.05	PPBV	93
60)	2,2,4-TRIMETHYLPENTANE	10.587	57	11333	0.05	PPBV	90
61)	1,4-DIOXANE	10.728	88	896	0.03	PPBV #	1
62)	HEPTANE	10.948	43	3636m	0.05	PPBV	
63)	METHYL METHACRYLATE	10.967	69	1149	0.02	PPBV #	1
65)	cis-1,3-DICHLOROPROPENE	11.670	75	3698	0.04	PPBV #	31
66)	TOLUENE	12.894	92	4080	0.04	PPBV #	73
67)	1,3-DICHLOROPROPANE	12.949	76	3060	0.04	PPBV #	98
68)	trans-1,3-DICHLOROPROPENE	12.368	75	2867	0.03	PPBV #	61
69)	1,1,2-TRICHLOROETHANE	12.545	83	2460	0.04	PPBV	93
72)	ETHYL METHACRYLATE	13.432	69	2096	0.03	PPBV #	19
73)	TETRACHLOROETHYLENE	14.374	164	3672	0.05	PPBV	94
74)	DIBROMOCHLOROMETHANE	13.438	129	5470	0.04	PPBV	95
75)	1,2-DIBROMOETHANE	13.768	107	4444	0.04	PPBV #	97
76)	OCTANE	14.258	43	5308	0.05	PPBV	83
77)	1,1,1,2-TETRACHLOROETHANE	15.304	131	3612	0.04	PPBV	83
78)	CHLOROBENZENE	15.316	112	6843	0.05	PPBV #	52
79)	ETHYLBENZENE	15.910	91	10555	0.05	PPBV	92
80)	m,p-XYLENE	16.167	106	8022	0.09	PPBV	93
81)	o-XYLENE	16.833	106	3763	0.05	PPBV	82
82)	STYRENE	16.748	104	5083	0.04	PPBV	82
83)	NONANE	17.231	43	6838	0.06	PPBV #	84
84)	BROMOFORM	16.216	173	5486	0.04	PPBV #	92
86)	1,1,2,2-TETRACHLOROETHANE	16.846	83	6555	0.05	PPBV	89
87)	1,2,3-TRICHLOROPROPANE	17.048	75	4777	0.05	PPBV	86
88)	ISOPROPYLBENZENE	17.745	105	11329	0.05	PPBV	97
89)	BROMOBENZENE	17.843	77	6664	0.05	PPBV	84
90)	2-CHLOROTOLUENE	18.497	126	2745	0.04	PPBV	68
91)	n-PROPYLBENZENE	18.595	120	2748	0.04	PPBV #	62
92)	4-ETHYLTOLUENE	18.834	105	11166m	0.05	PPBV	
93)	1,3,5-TRIMETHYLBENZENE	18.950	105	10972	0.05	PPBV	94
94)	ALPHA-METHYLSTYRENE	19.219	118	4132	0.04	PPBV	92
95)	tert-BUTYLBENZENE	19.544	134	1983	0.04	PPBV #	79
96)	1,2,4-TRIMETHYLBENZENE	19.568	105	10614	0.05	PPBV #	29
97)	m-DICHLOROBENZENE	19.770	146	8138	0.05	PPBV	95
98)	BENZYL CHLORIDE	19.782	91	6381	0.04	PPBV	85
99)	p-DICHLOROBENZENE	19.874	146	9973	0.06	PPBV	94
100)	sec-BUTYLBENZENE	19.960	134	2489	0.04	PPBV #	70
101)	1,2,3-TRIMETHYLBENZENE	20.186	105	10679	0.05	PPBV #	92
102)	p-ISOPROPYLTOLUENE	20.210	134	2974	0.05	PPBV	89
103)	o-DICHLOROBENZENE	20.357	146	8346	0.05	PPBV	95
104)	n-BUTYLBENZENE	20.828	134	2425	0.04	PPBV #	47
105)	HEXACHLOROETHANE	21.250	117	4425	0.05	PPBV	95
106)	HEXACHLOROBUTADIENE	23.196	225	7816	0.06	PPBV	98
107)	1,2,4-TRICHLOROBENZENE	23.086	180	8904	0.07	PPBV	92
108)	NAPHTHALENE	22.774	128	25504	0.08	PPBV	89
110)	TVHC as equiv Pentane	5.149	TIC	18812m	0.05	PPBV	

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

Manual Integration Approval Summary

Sample Number:

V5W2187-IC2187

Method:

TO-15

Lab FileID:

5W57030.D

Analyst approved:

02/24/25 10:48 Benjamin Kim

Injection Time:

02/23/25 02:03

Supervisor approved:

02/24/25 16:39 Kanya Veerawat

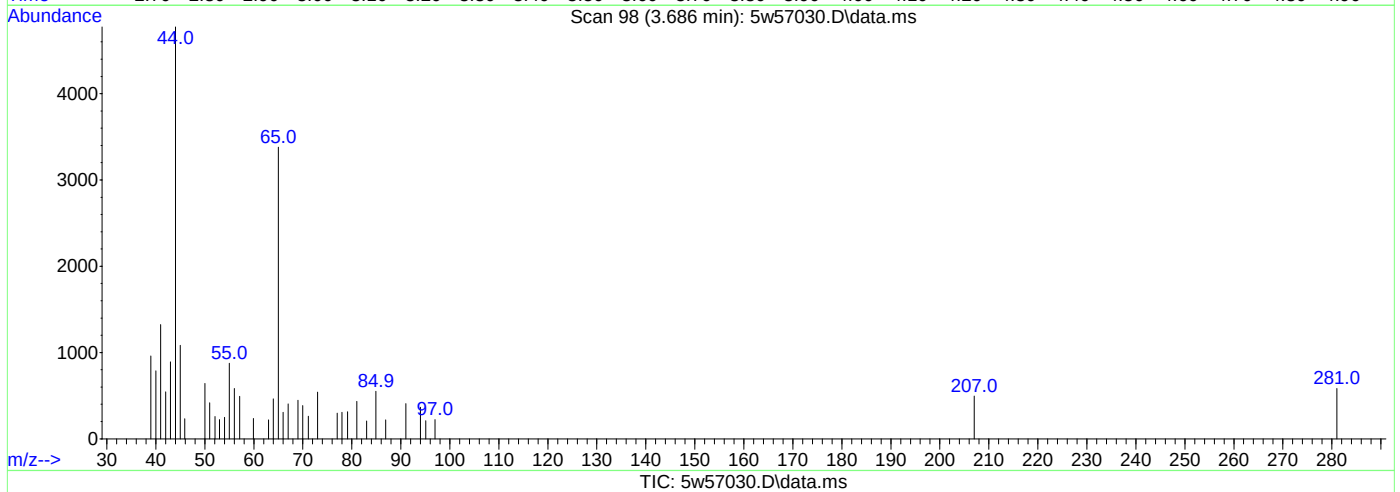
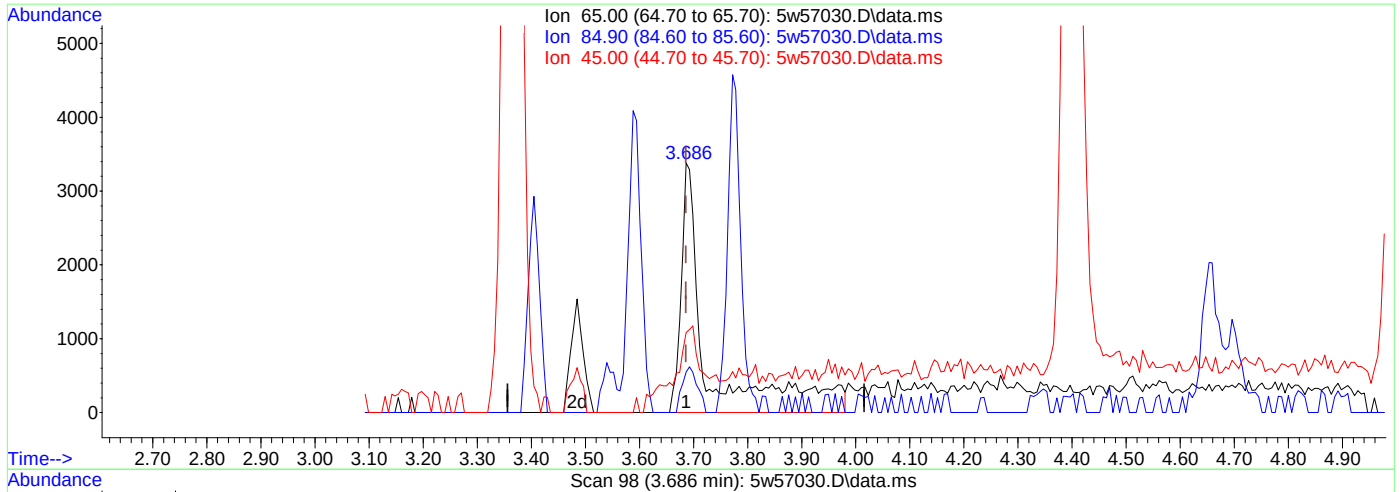
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 142B	75-68-3		3.69	Poor instrument integration
1,3-Butadiene	106-99-0		3.97	Poor instrument integration
n-Butane	106-97-8		4.00	Poor instrument integration
Ethanol	64-17-5		4.40	Poor instrument integration
Acrolein	107-02-8		4.65	Poor instrument integration
Freon 123	306-83-2		4.66	Poor instrument integration
Acetone (2-Propanone)	67-64-1		4.78	Poor instrument integration
Isopropyl Alcohol	67-63-0		5.00	Poor instrument integration
Pentane	109-66-0		5.15	Poor instrument integration
TVHC As Equiv Pentane			5.15	Poor instrument integration
Heptane	142-82-5		10.95	Poor instrument integration
4-Ethyltoluene	622-96-8		18.83	Poor instrument integration

7.7.12.1
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.686min (+0.000) 0.09PPBV

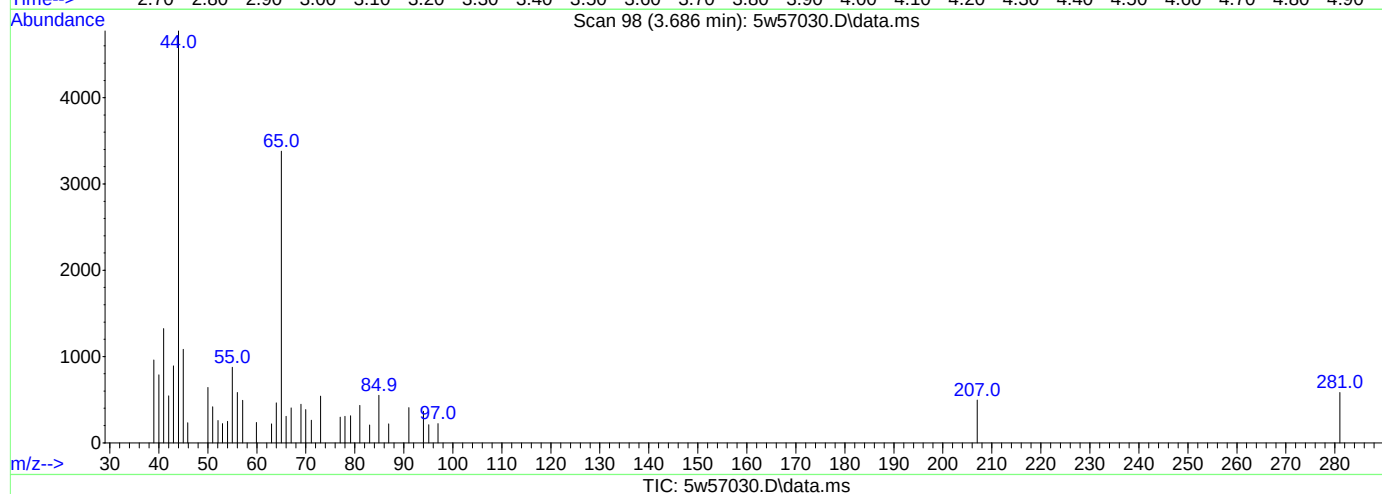
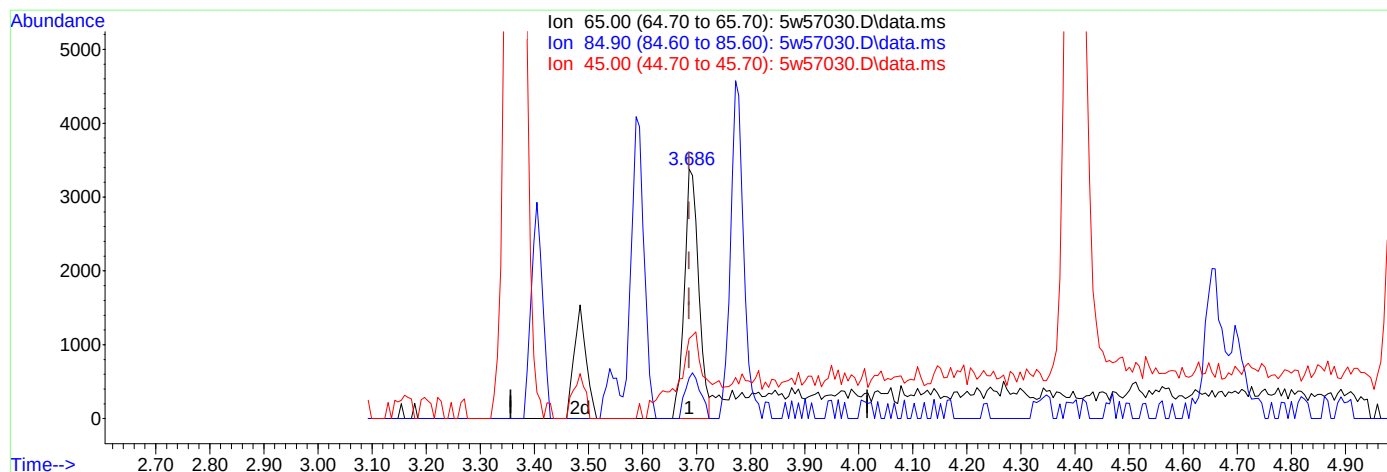
response 11098

Ion	Exp%	Act%
65.00	100	100
84.90	15.90	10.82#
45.00	20.80	106.72#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.686min (+0.000) 0.05PPBV m

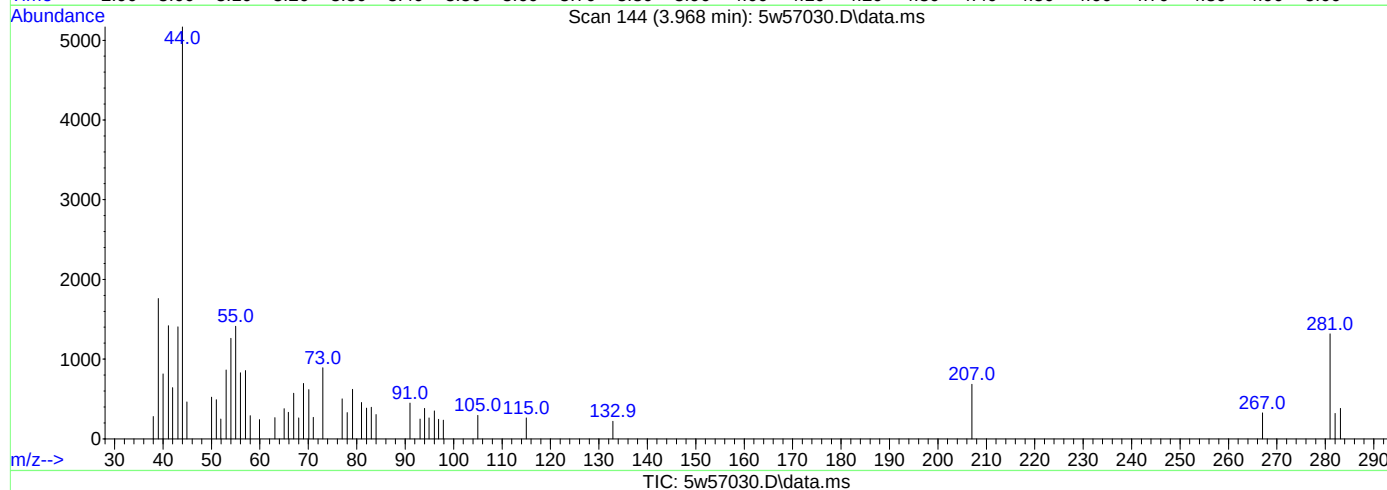
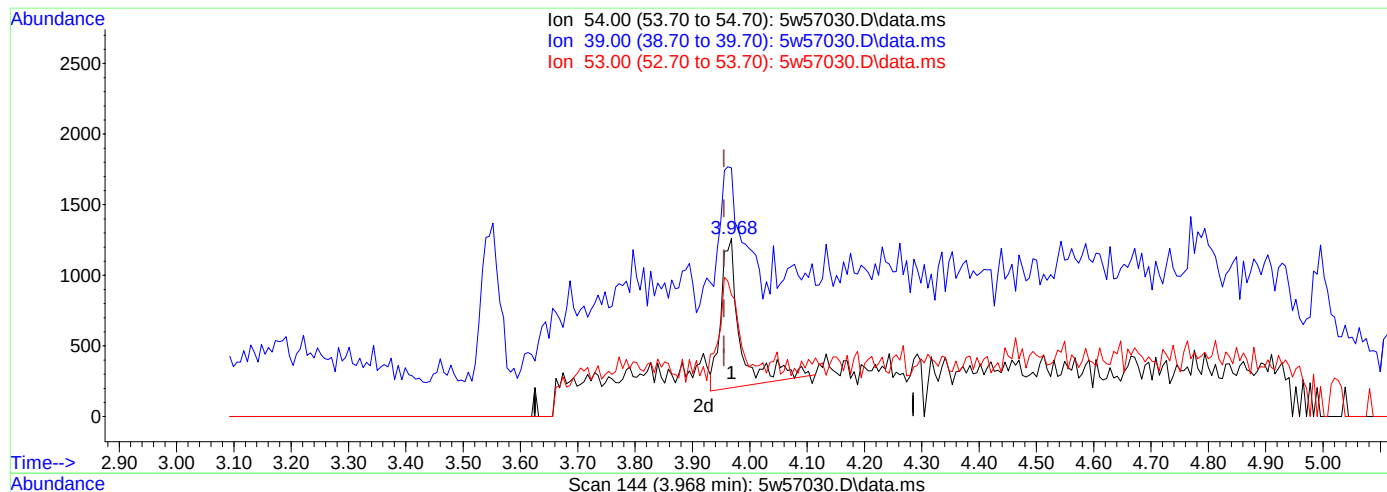
response 6200

Ion	Exp%	Act%
65.00	100	100
84.90	15.90	19.37
45.00	20.80	191.03#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(12) 1,3-BUTADIENE

3.968min (+0.013) 0.07PPBV

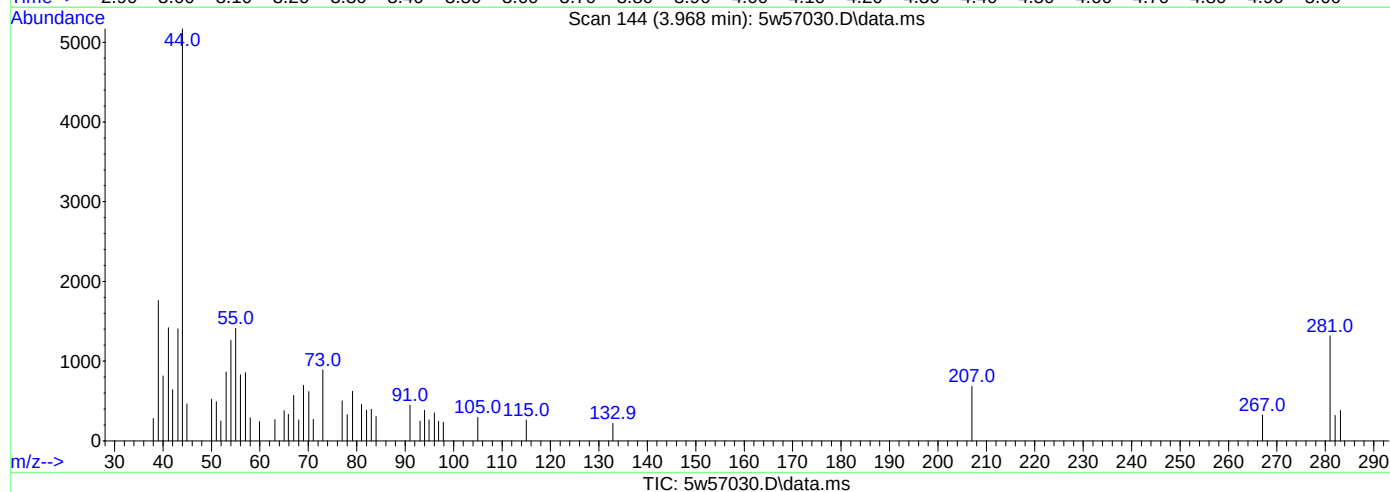
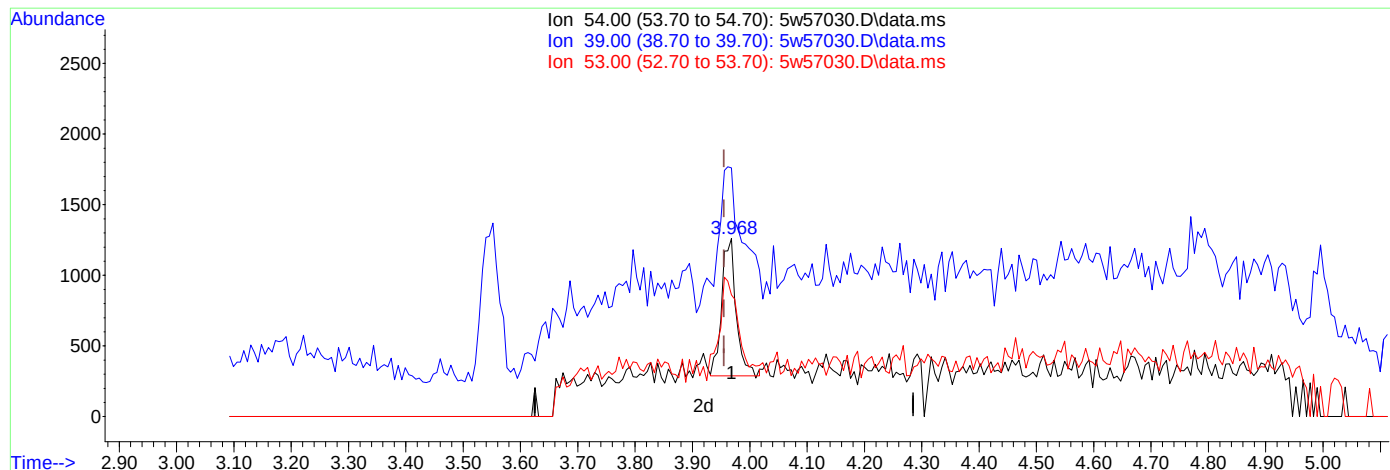
response 2451

Ion	Exp%	Act%
54.00	100	100
39.00	103.30	250.10#
53.00	70.10	136.27#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(12) 1,3-BUTADIENE

3.968min (+0.013) 0.05PPBV m

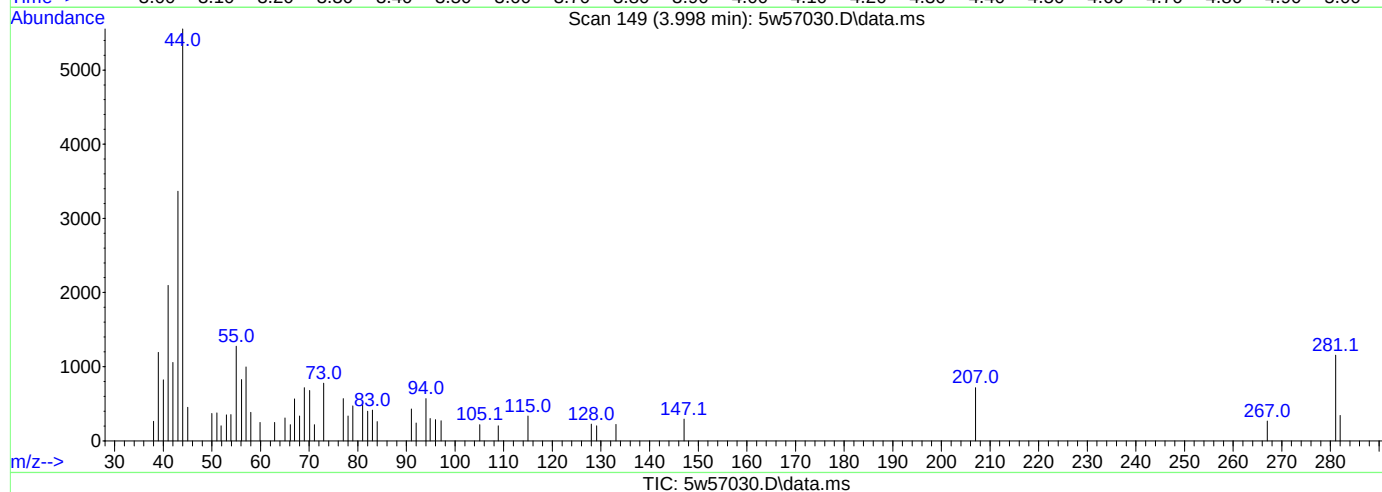
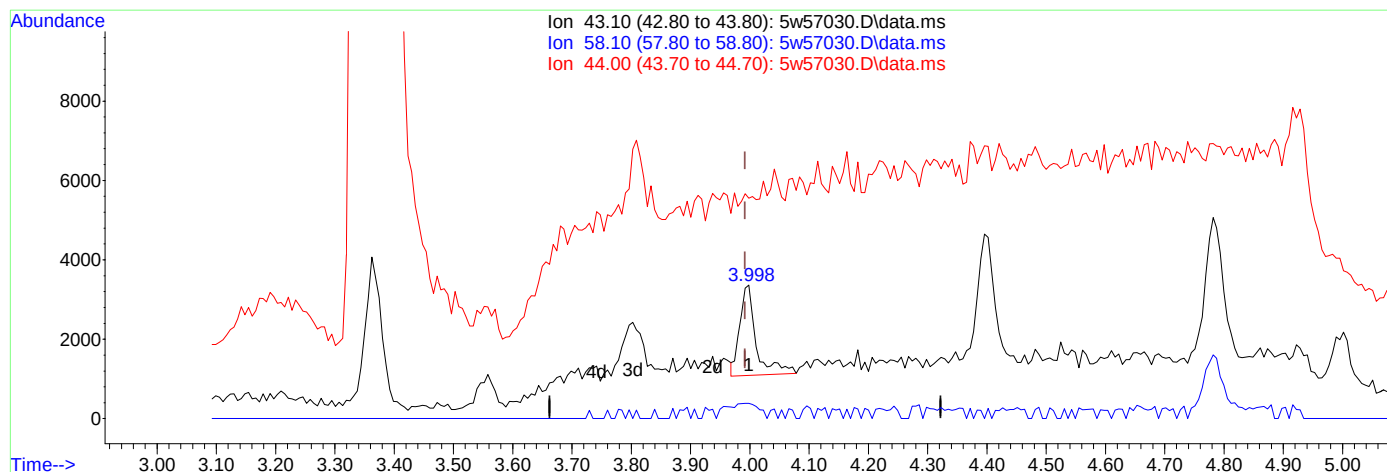
response 1704

Ion	Exp%	Act%
54.00	100	100
39.00	103.30	359.74#
53.00	70.10	196.01#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(13) n-BUTANE

3.998min (+0.006) 0.07PPBV

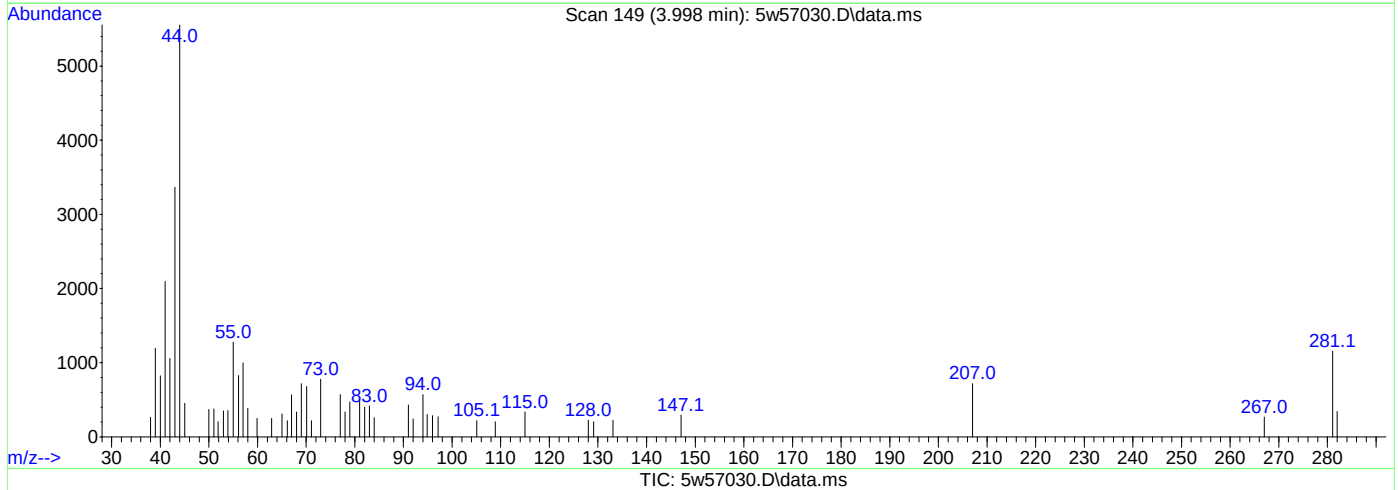
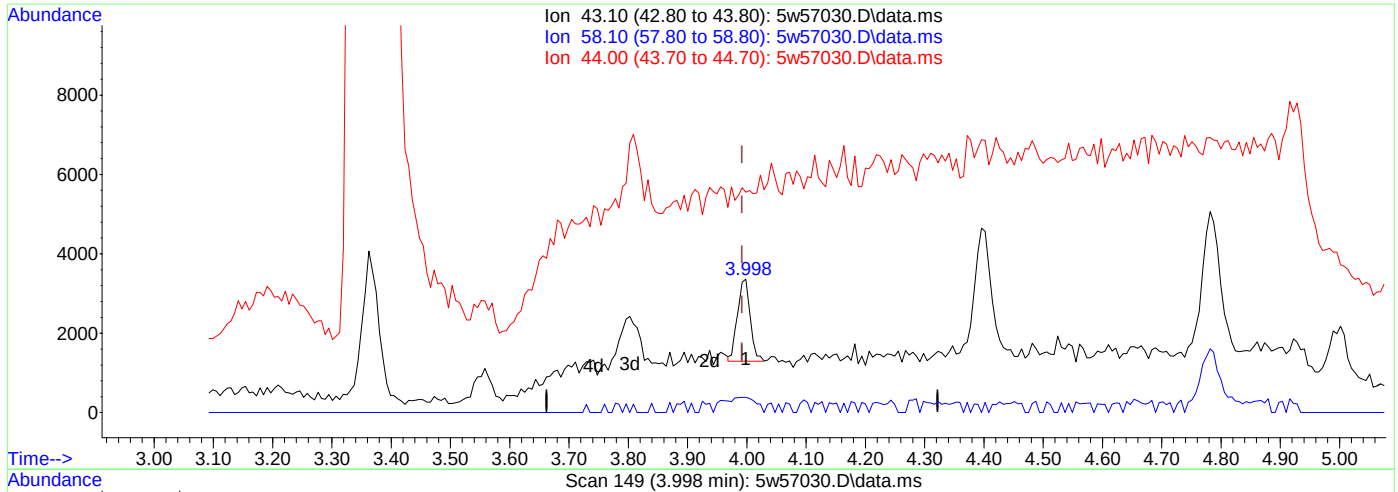
response 4374

Ion	Exp%	Act%
43.10	100	100
58.10	13.80	33.77
44.00	5.50	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(13) n-BUTANE

3.998min (+0.006) 0.05PPBV m

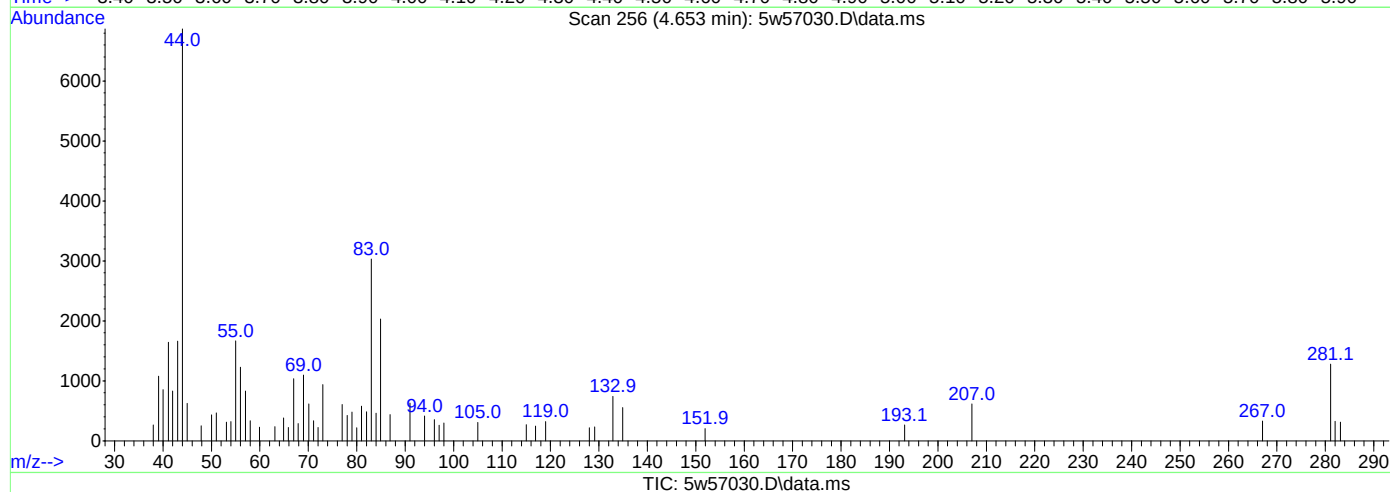
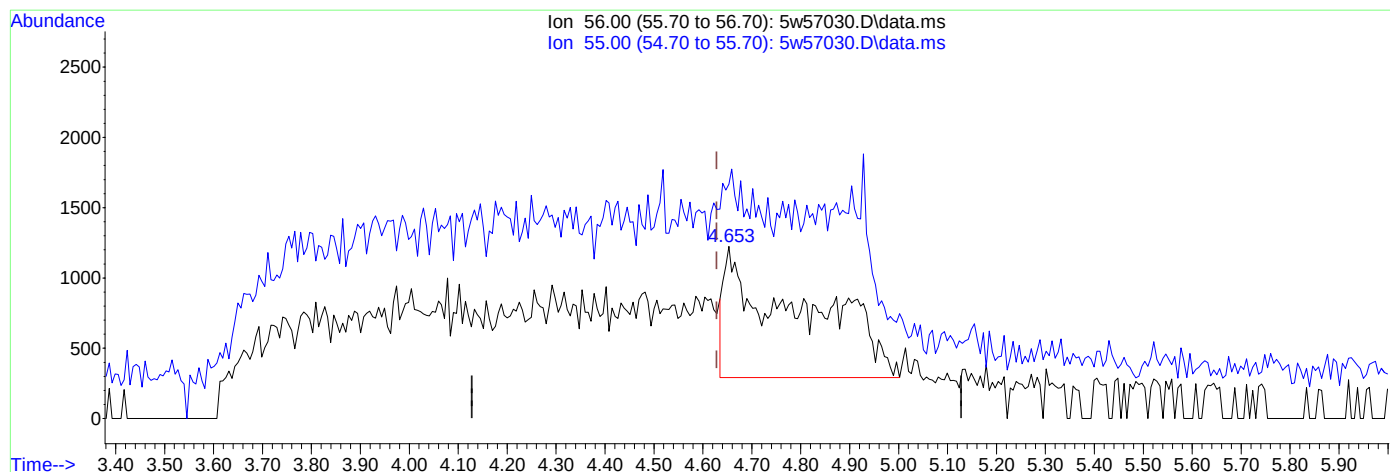
response 3073

Ion	Exp%	Act%
43.10	100	100
58.10	13.80	48.06#
44.00	5.50	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(18) ACROLEIN

4.653min (+0.025) 0.42PPBV

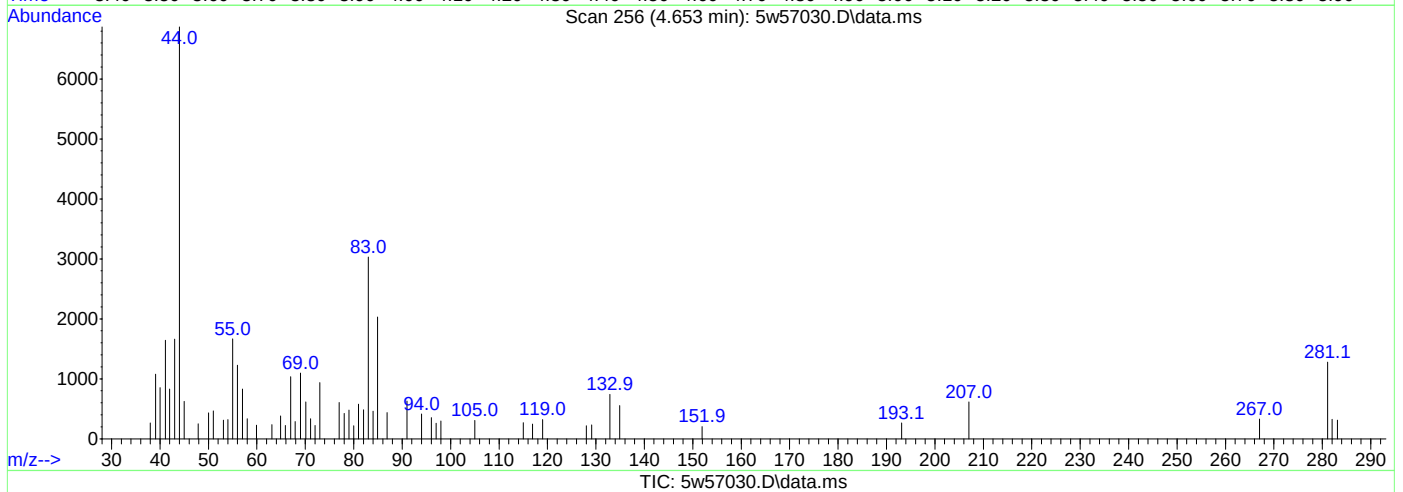
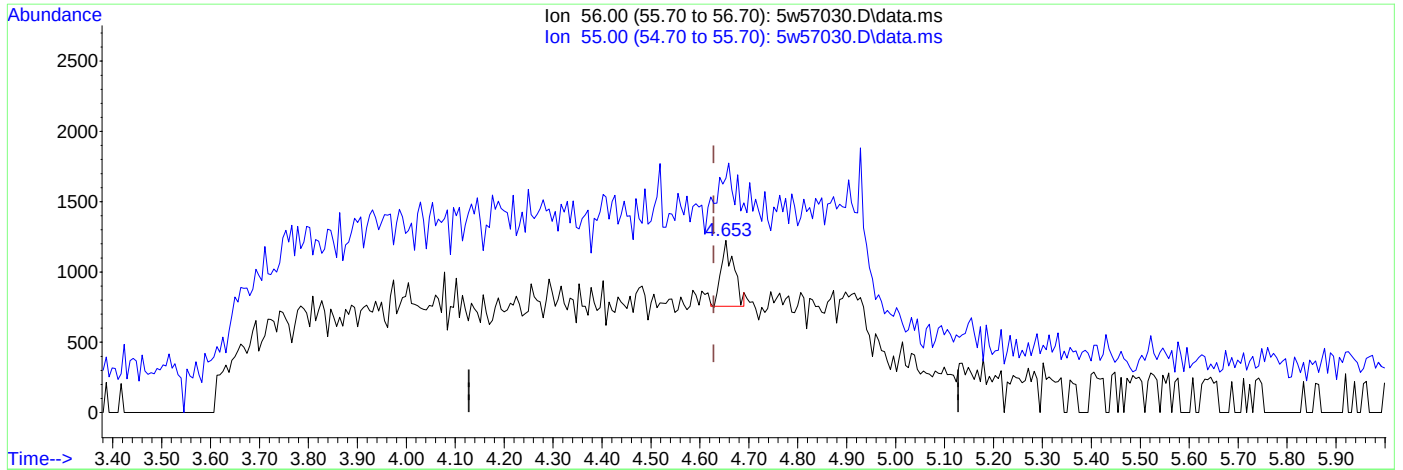
response 10126

Ion	Exp%	Act%
56.00	100	100
55.00	66.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(18) ACROLEIN

4.653min (+0.025) 0.04PPBV m

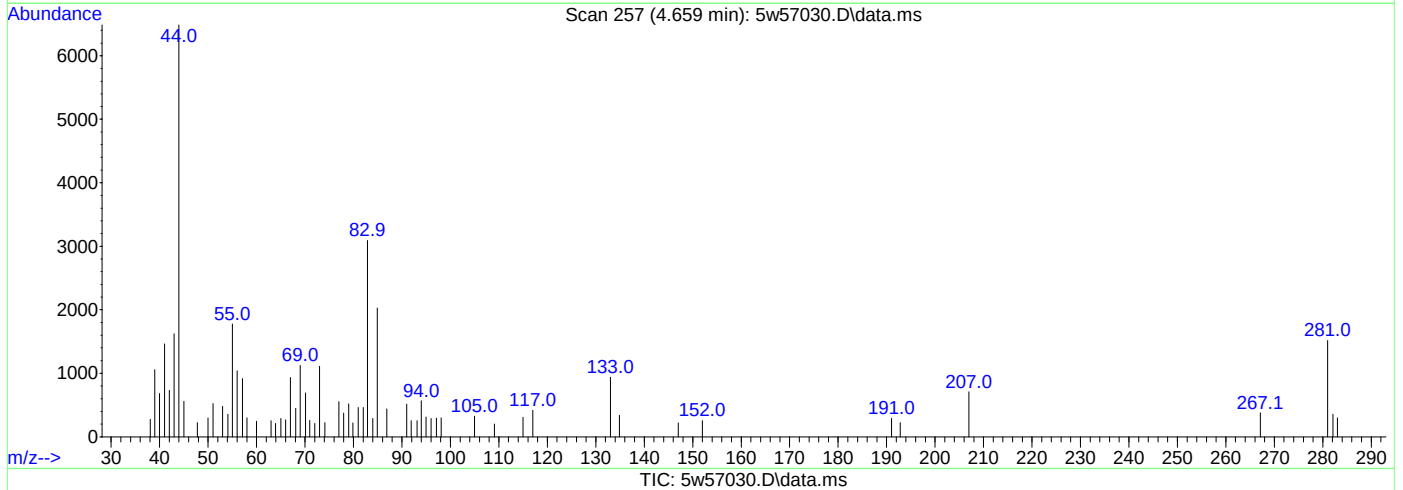
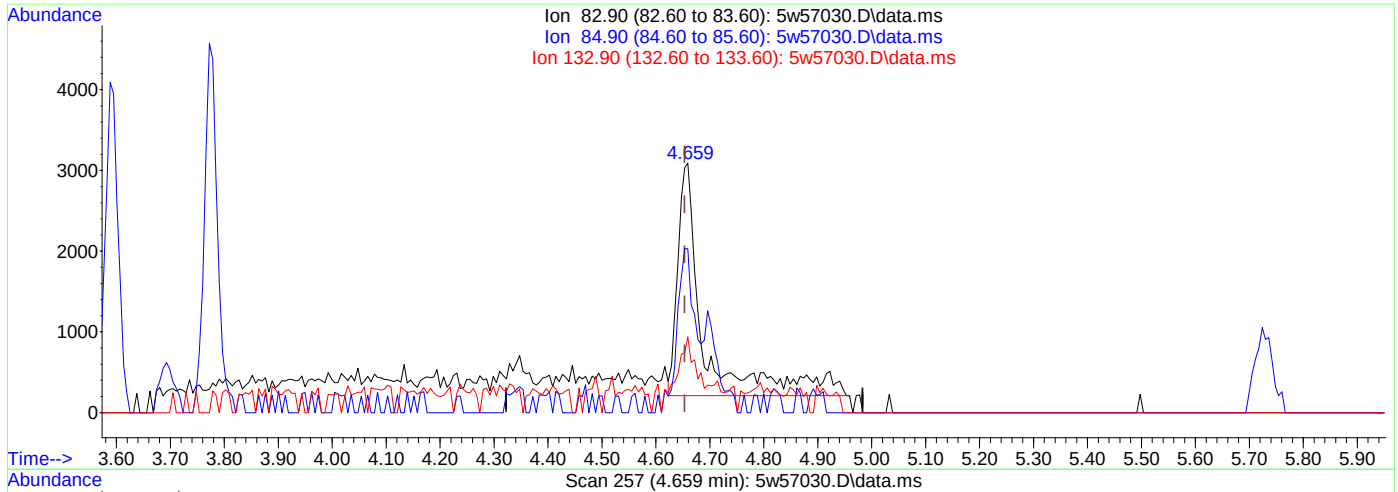
response 851

Ion	Exp%	Act%
56.00	100	100
55.00	66.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(19) FREON 123

4.659min (+0.006) 0.08PPBV

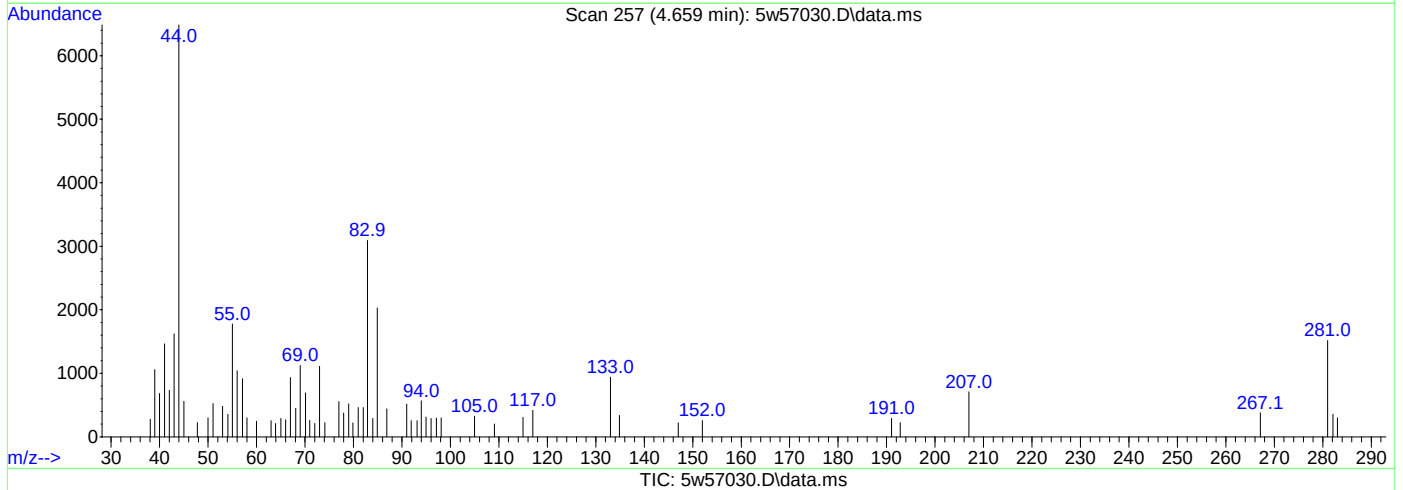
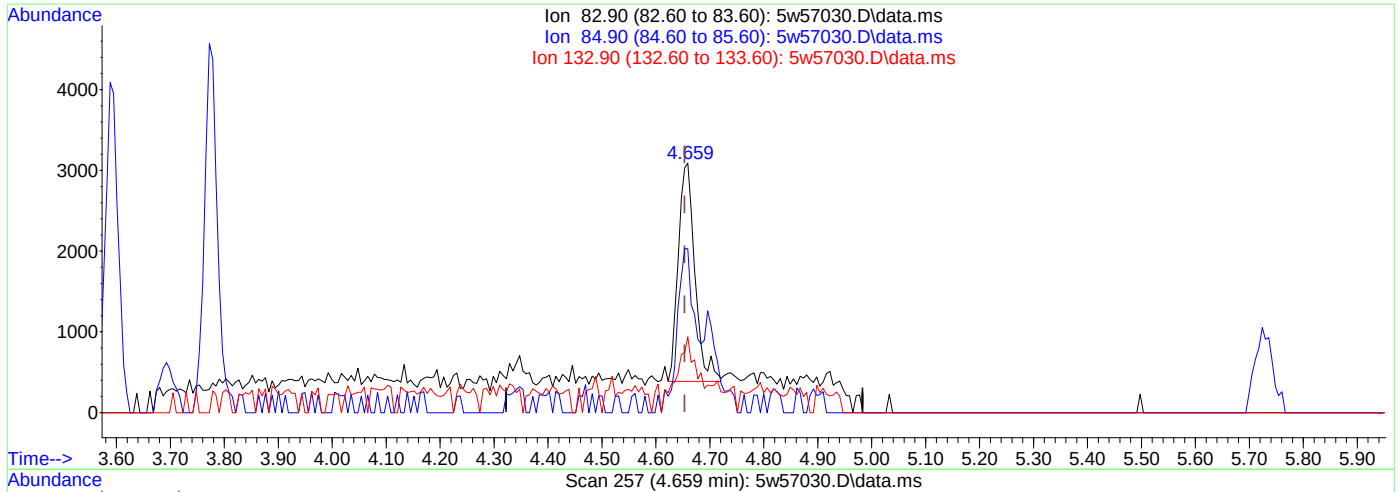
response 9670

Ion	Exp%	Act%
82.90	100	100
84.90	95.80	71.95
132.90	22.20	35.81
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(19) FREON 123

4.659min (+0.006) 0.05PPBV m

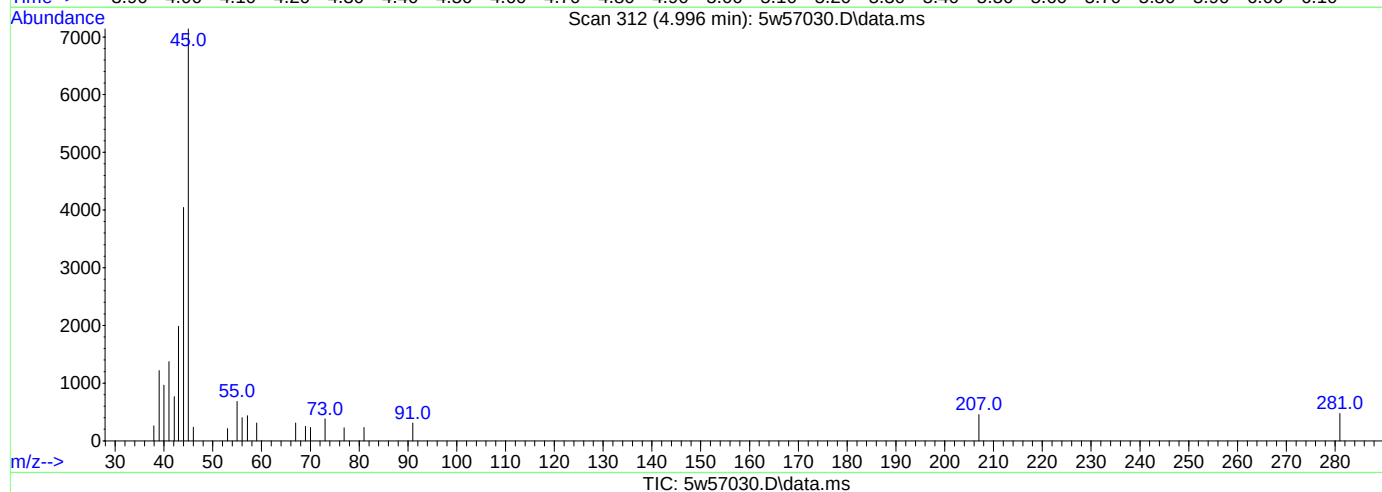
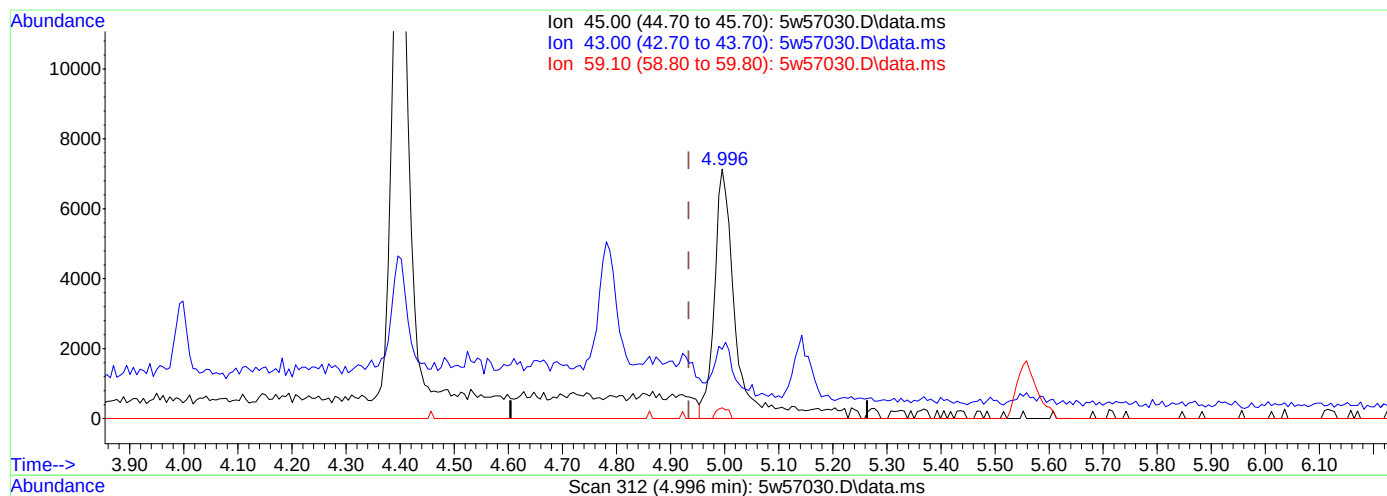
response 5812

Ion	Exp%	Act%
82.90	100	100
84.90	95.80	119.72
132.90	22.20	59.58#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(22) ISOPROPYL ALCOHOL

4.996min (+0.062) 0.18PPBV

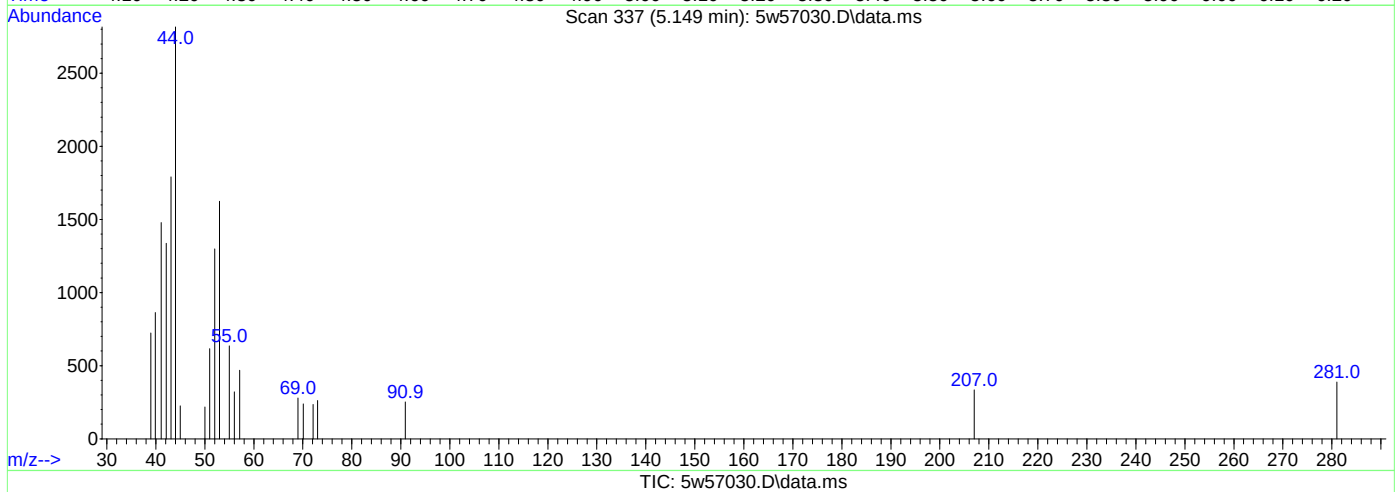
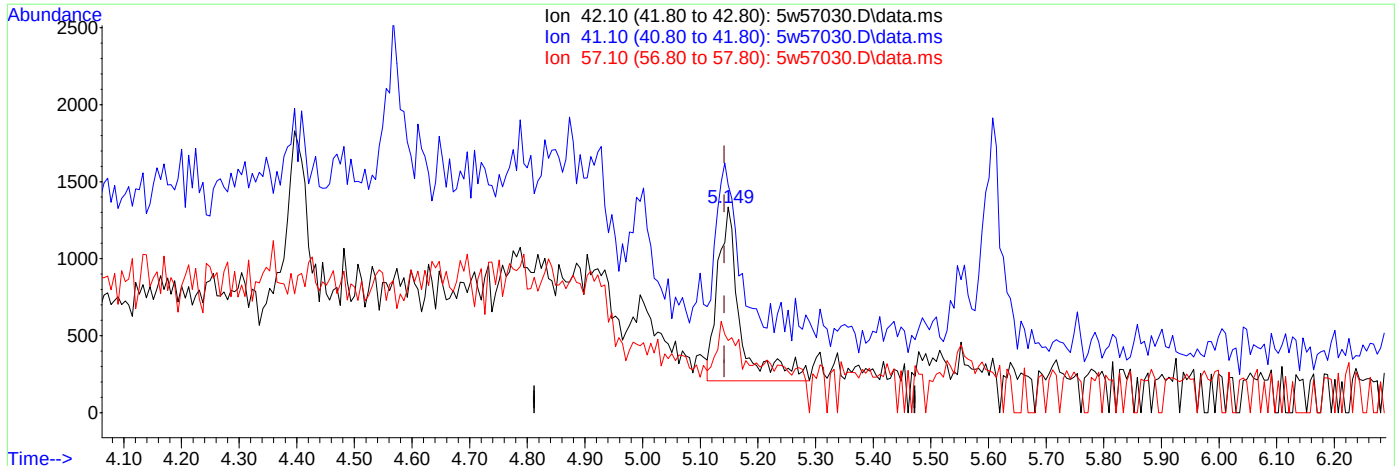
response 19961

Ion	Exp%	Act%
45.00	100	100
43.00	18.50	27.80
59.10	4.20	4.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(24) PENTANE

5.149min (+0.007) 0.07PPBV

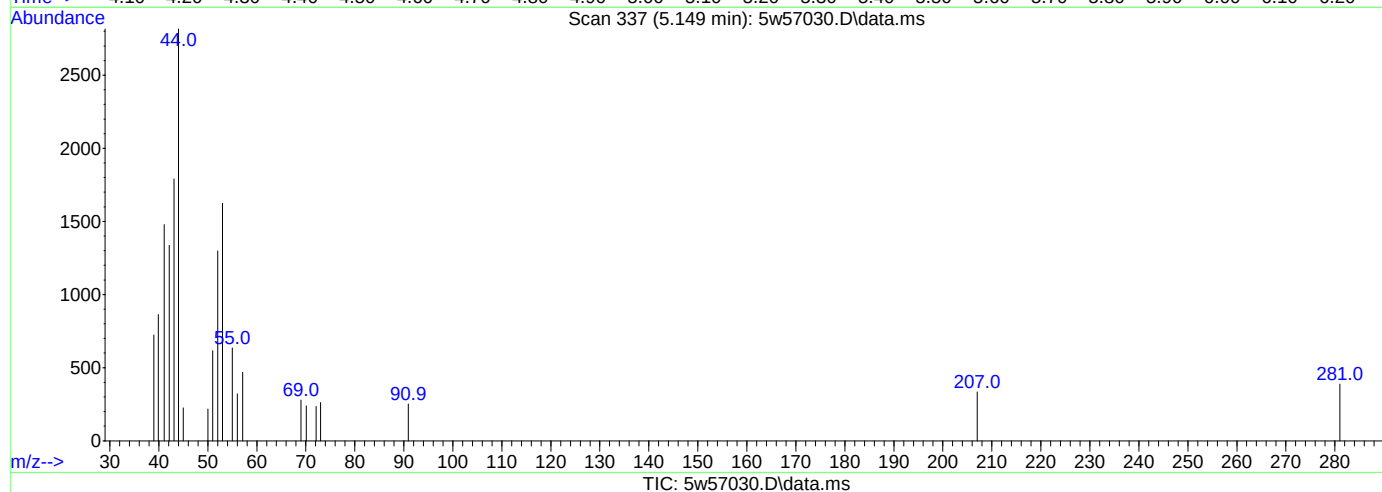
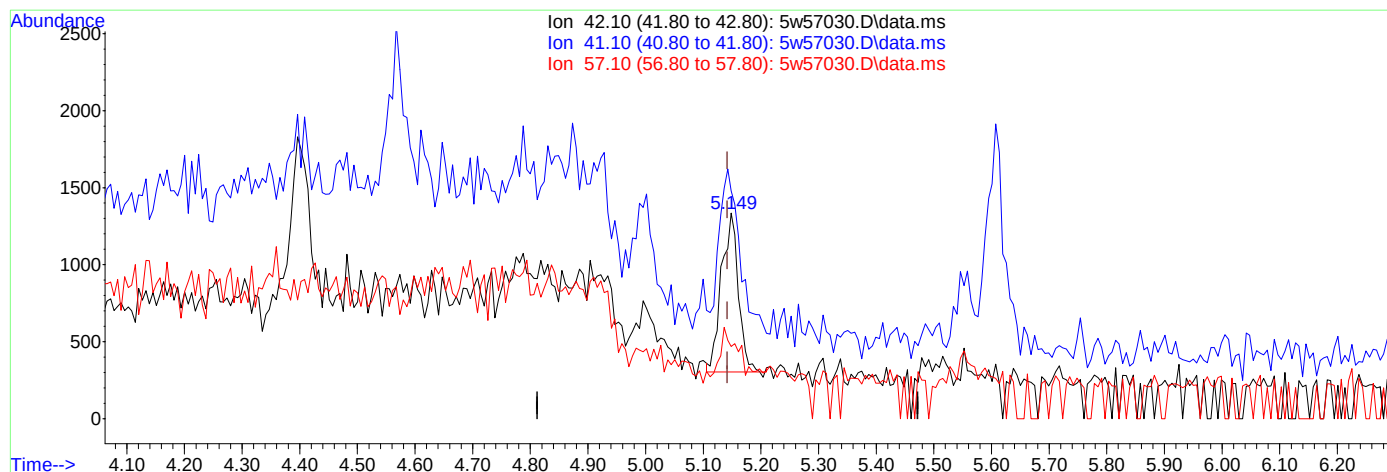
response 3064

Ion	Exp%	Act%
42.10	100	100
41.10	92.90	86.42
57.10	27.40	111.65#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(24) PENTANE

5.149min (+0.007) 0.05PPBV m

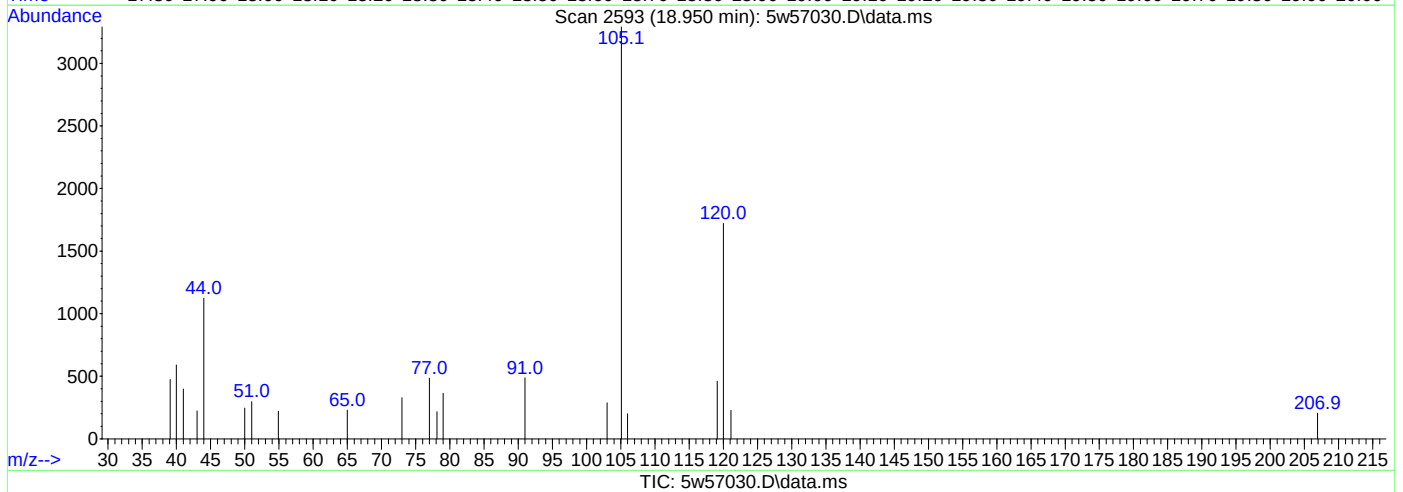
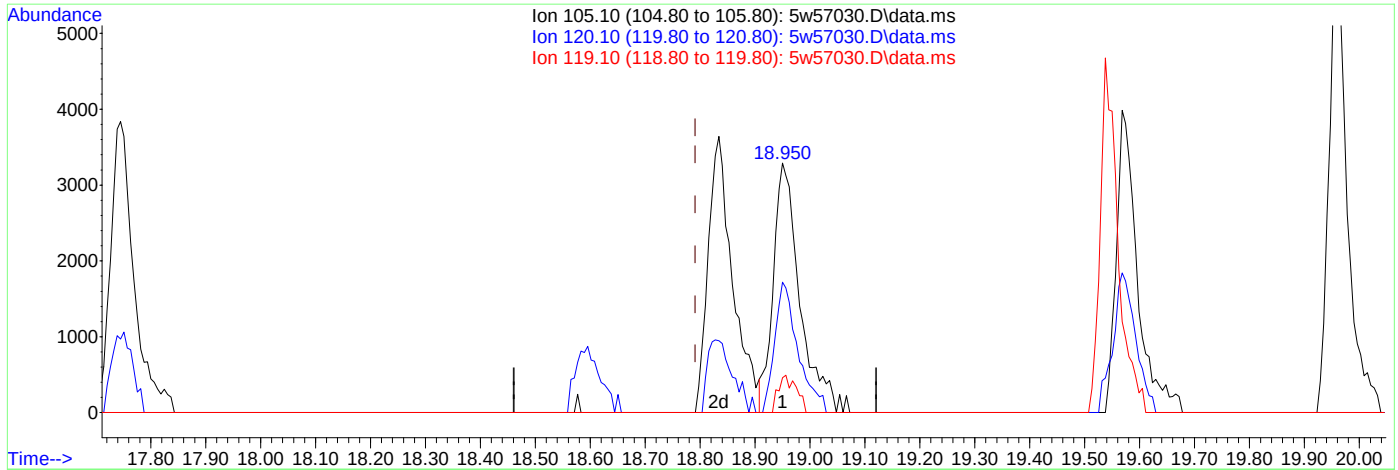
response 2100

Ion	Exp%	Act%
42.10	100	100
41.10	92.90	126.10#
57.10	27.40	162.90#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(92) 4-ETHYLTOLUENE

18.950min (+0.159) 0.05PPBV

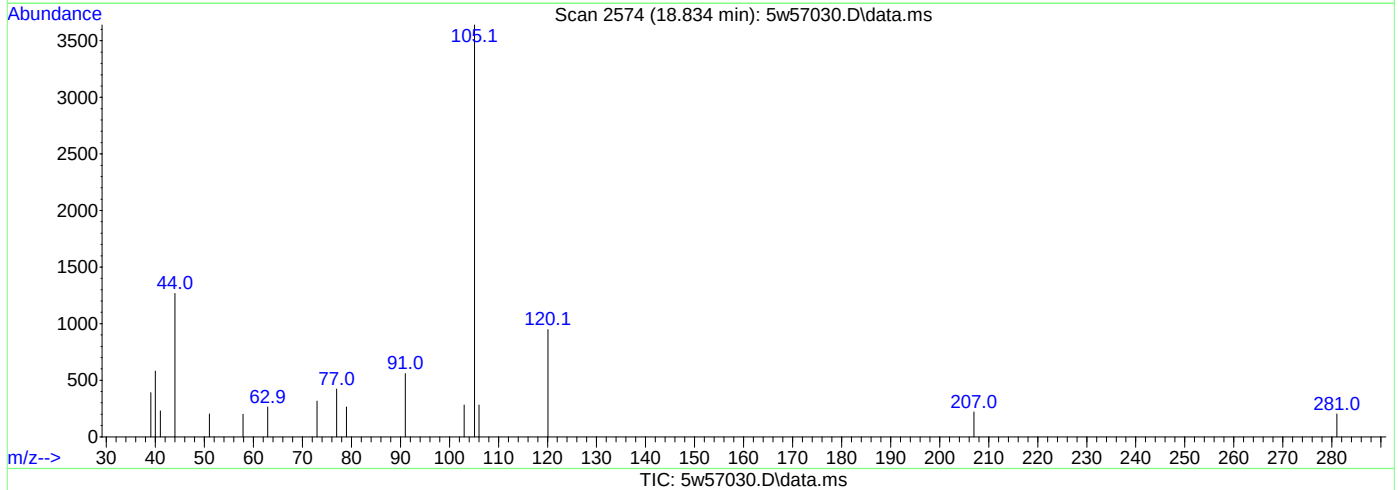
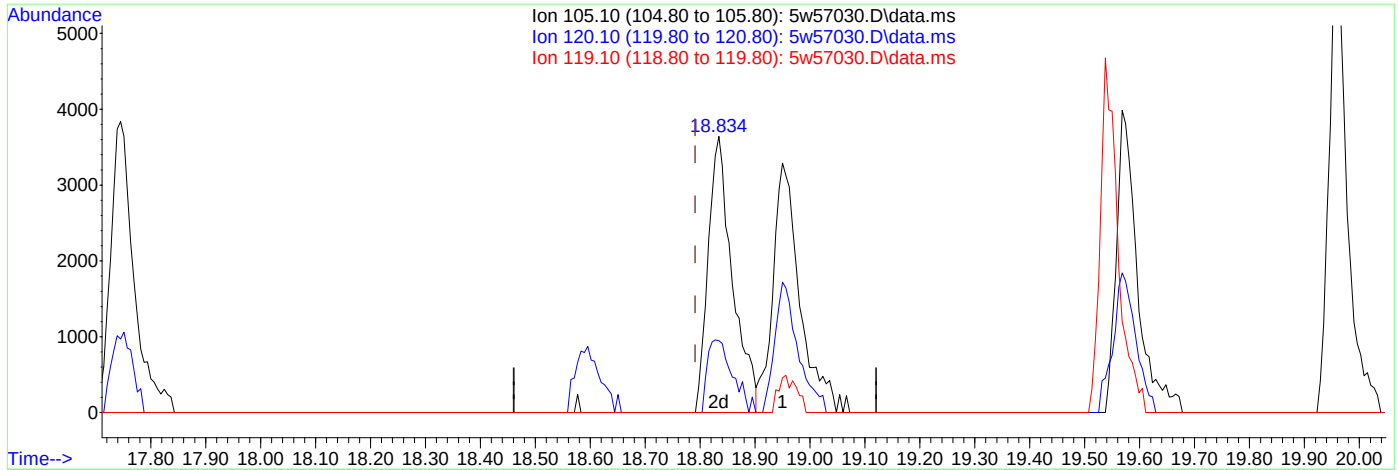
response 10972

Ion	Exp%	Act%
105.10	100	100
120.10	30.90	46.22
119.10	2.30	10.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:39:45 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(92) 4-ETHYLTOLUENE

18.834min (+0.043) 0.05PPBV m

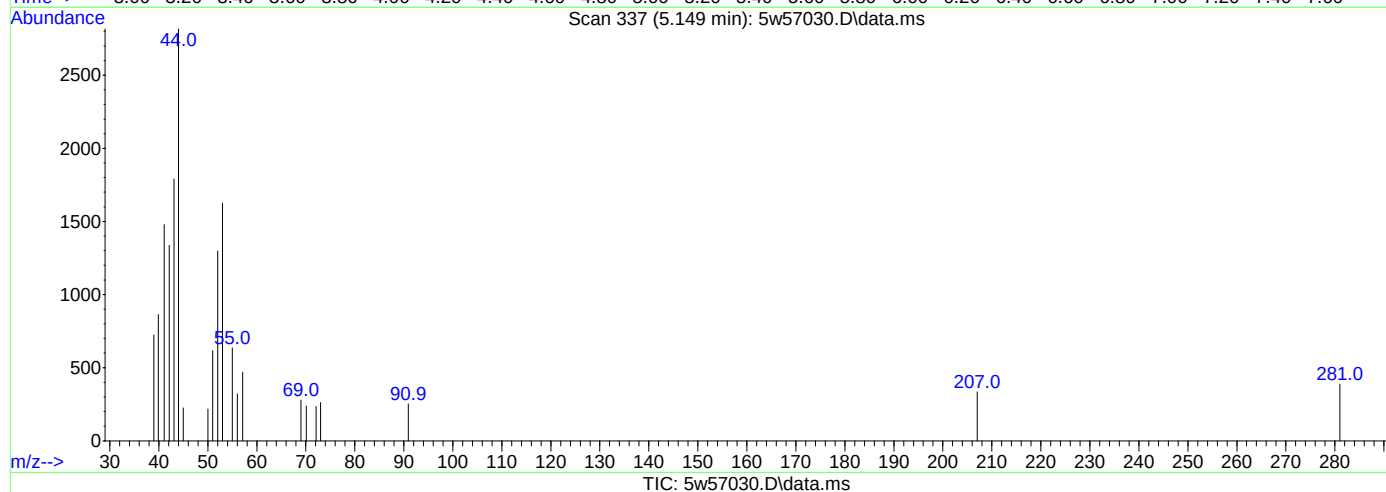
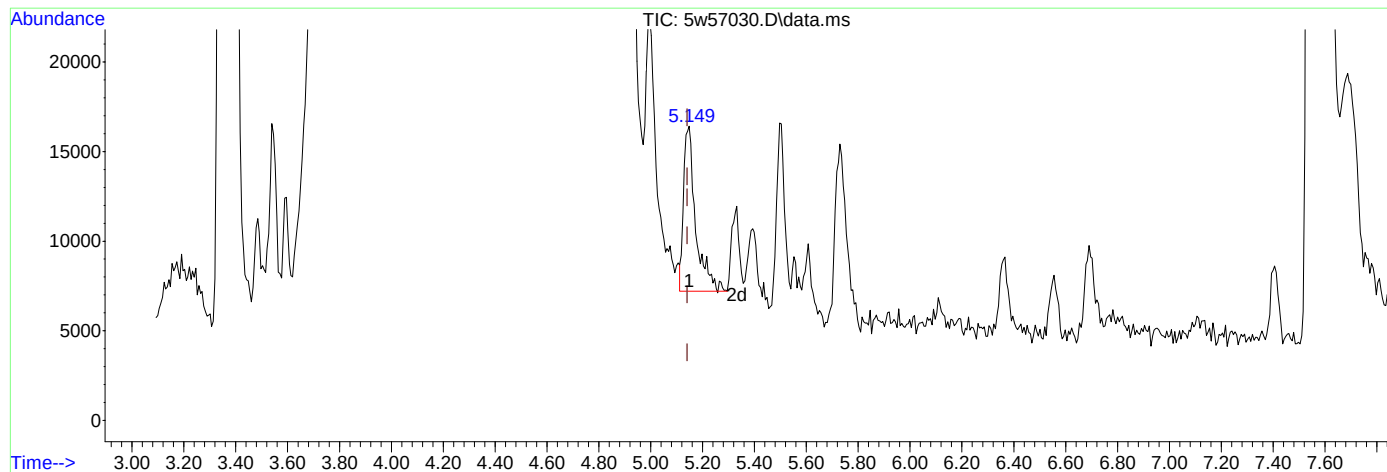
response 11166

Ion	Exp%	Act%
105.10	100	100
120.10	30.90	45.41
119.10	2.30	10.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:43:55 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(110) TVHC as equiv Pentane

5.149min (+0.007) 0.08PPBV

response 29583

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

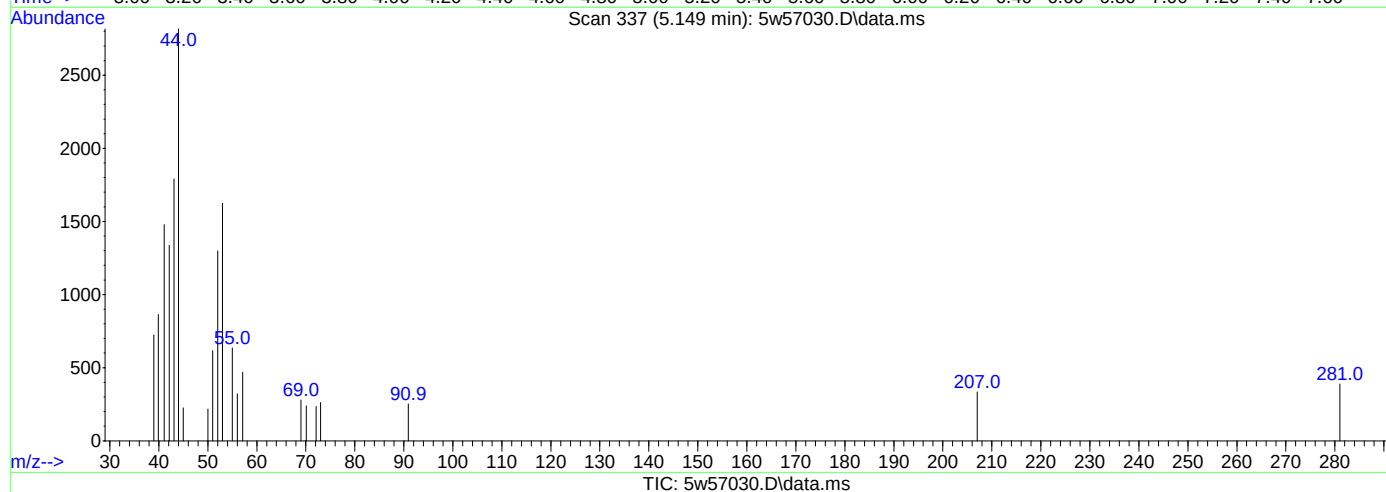
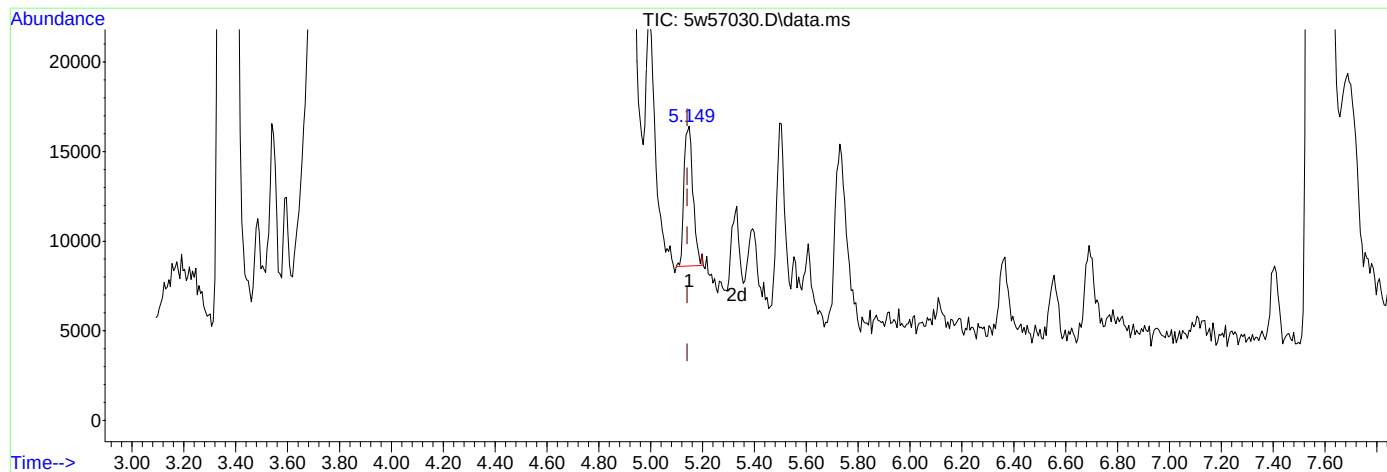
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 00:43:55 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(110) TVHC as equiv Pentane

5.149min (+0.007) 0.05PPBV m

response 18812

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

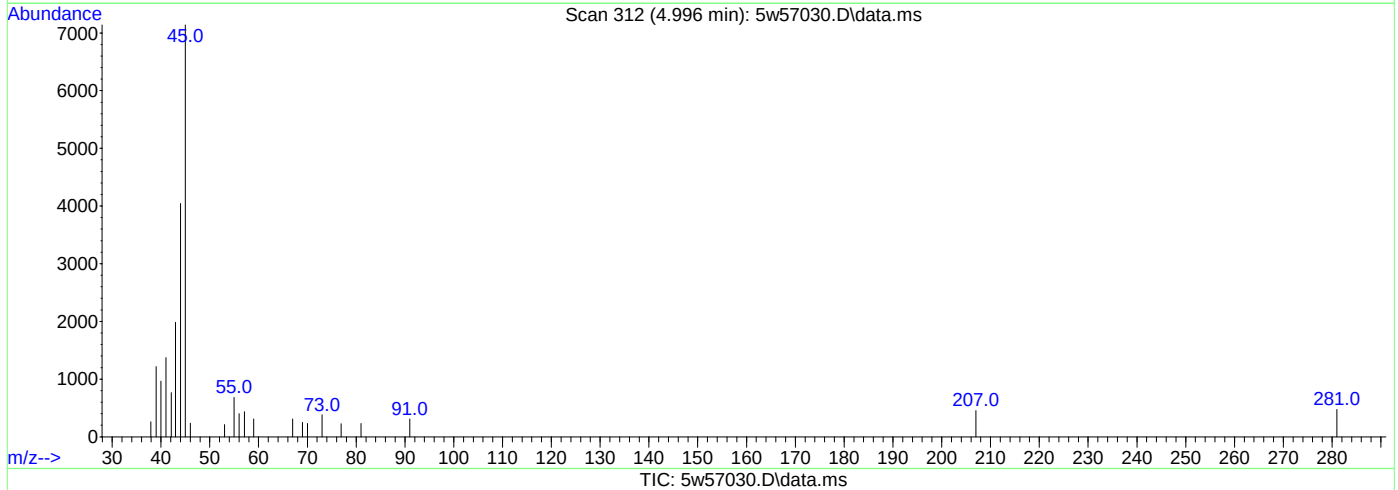
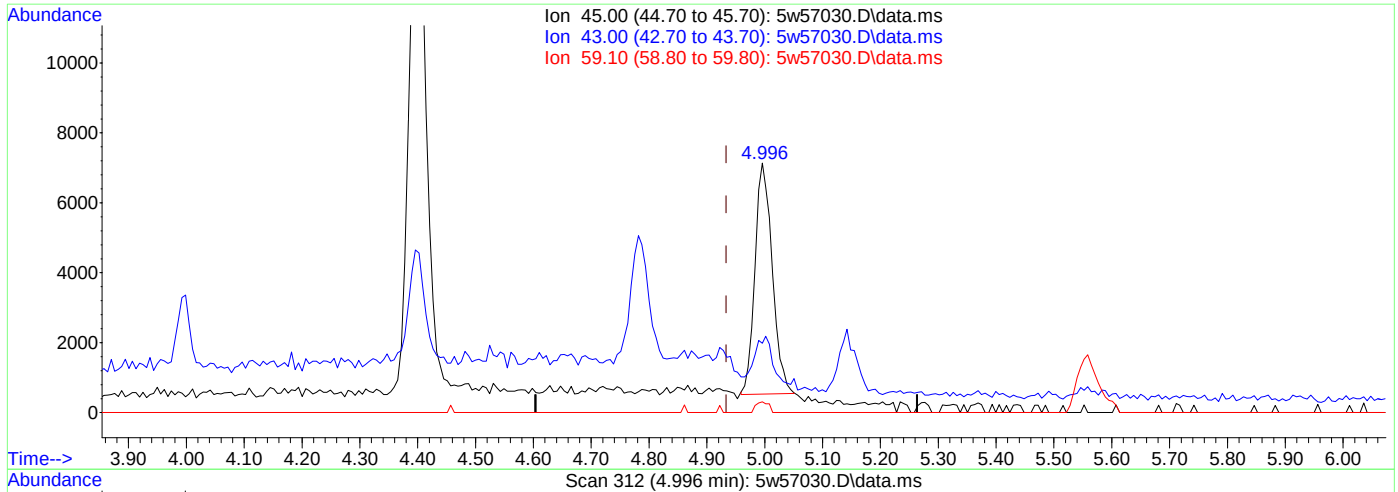
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:07:02 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(22) ISOPROPYL ALCOHOL

4.996min (+0.062) 0.13PPBV m

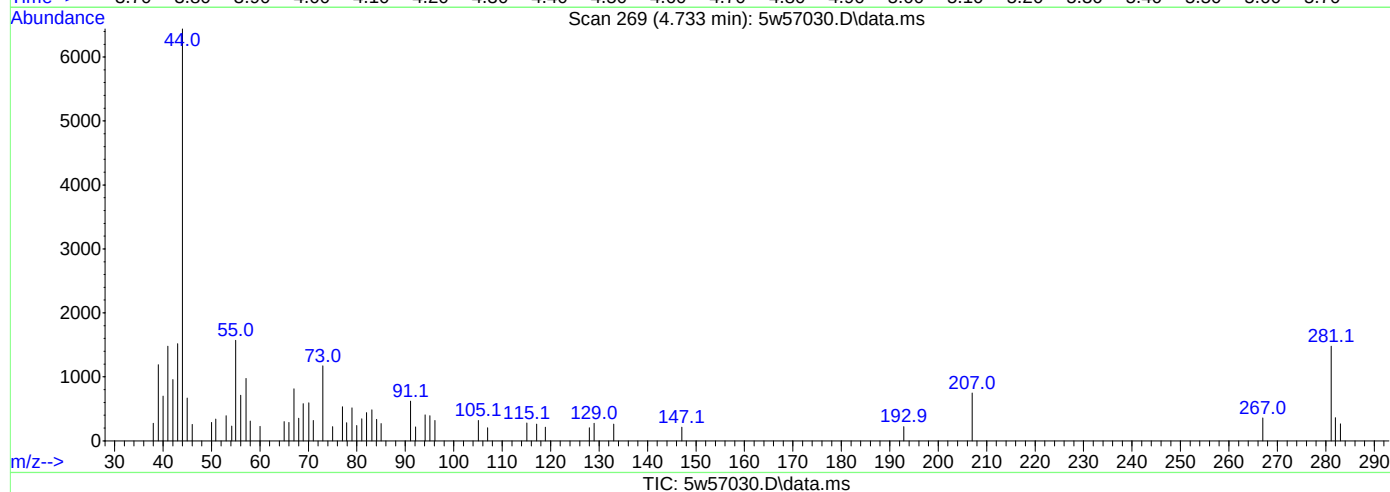
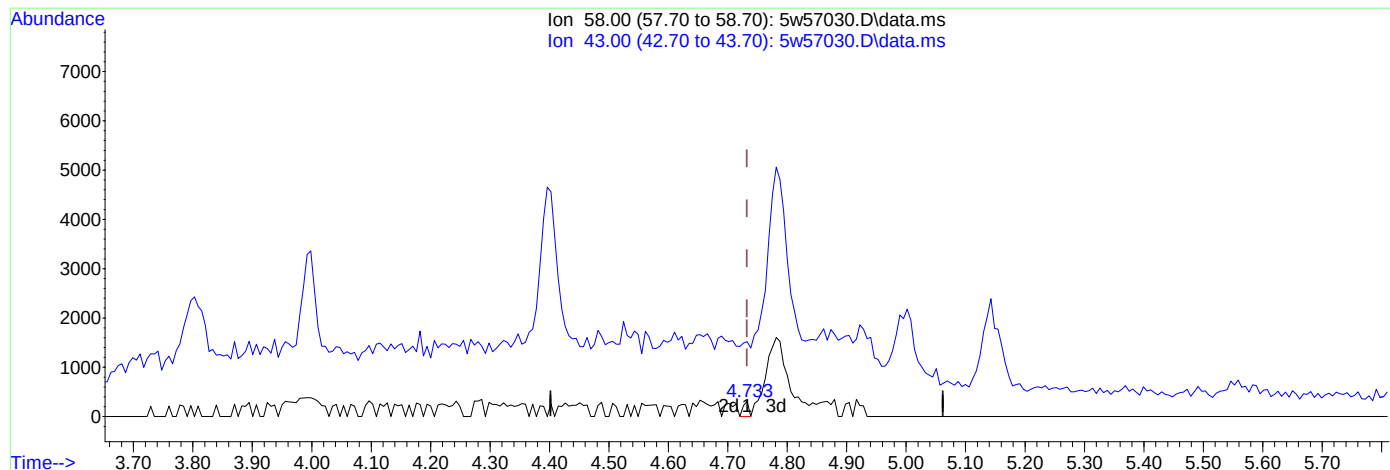
response 13745

Ion	Exp%	Act%
45.00	100	100
43.00	18.50	27.80
59.10	4.20	4.30
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:07:02 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(23) ACETONE

4.733min (+0.001) 0.01PPBV

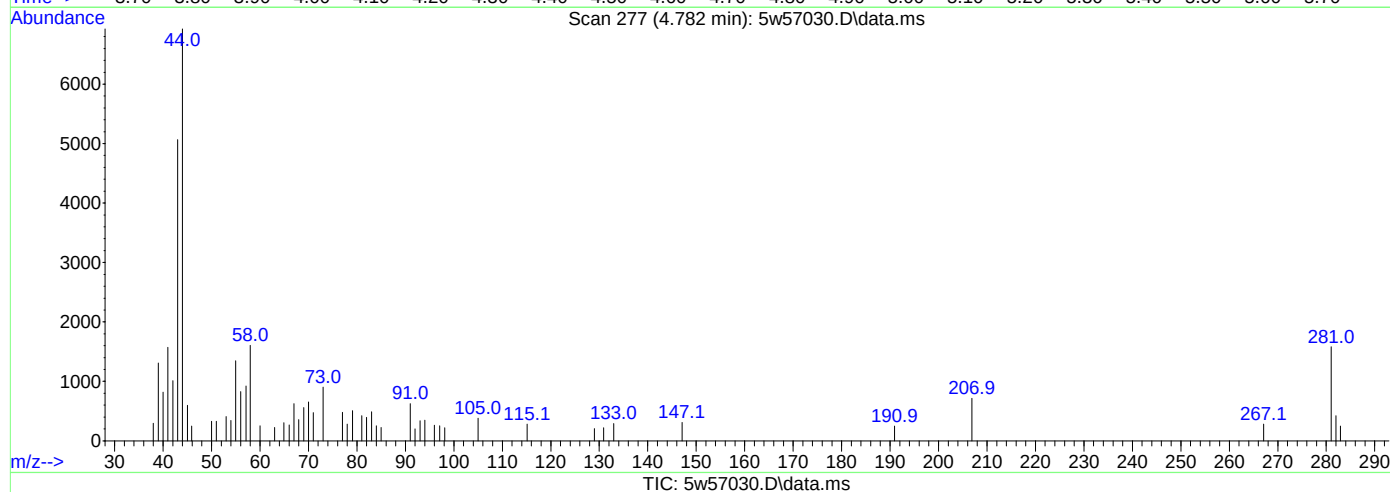
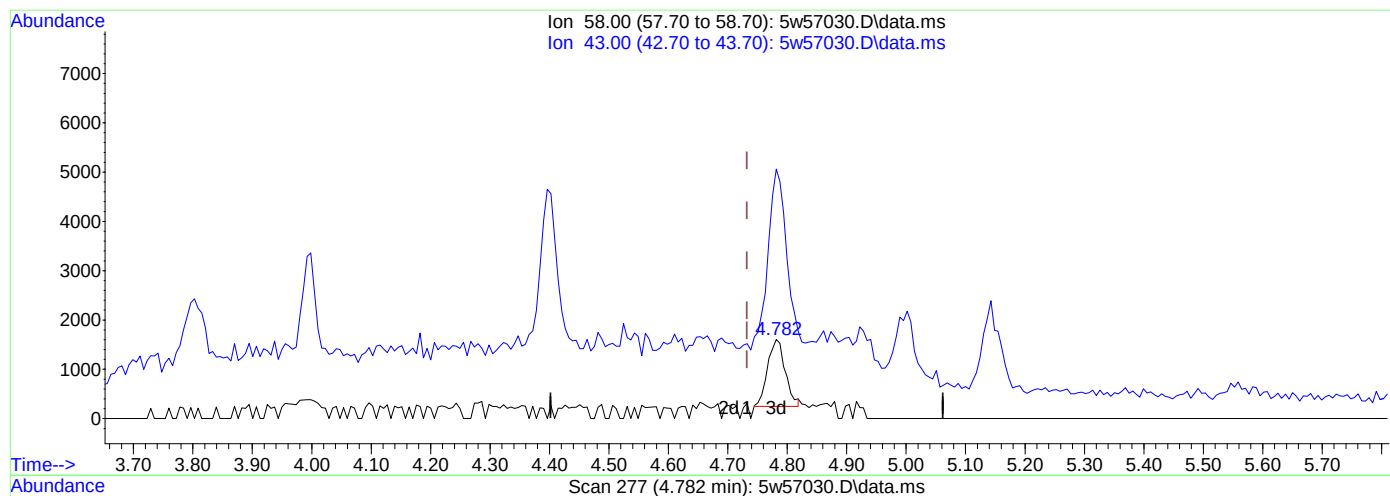
response 196

Ion	Exp%	Act%
58.00	100	100
43.00	2.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:07:02 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(23) ACETONE

4.782min (+0.050) 0.08PPBV m

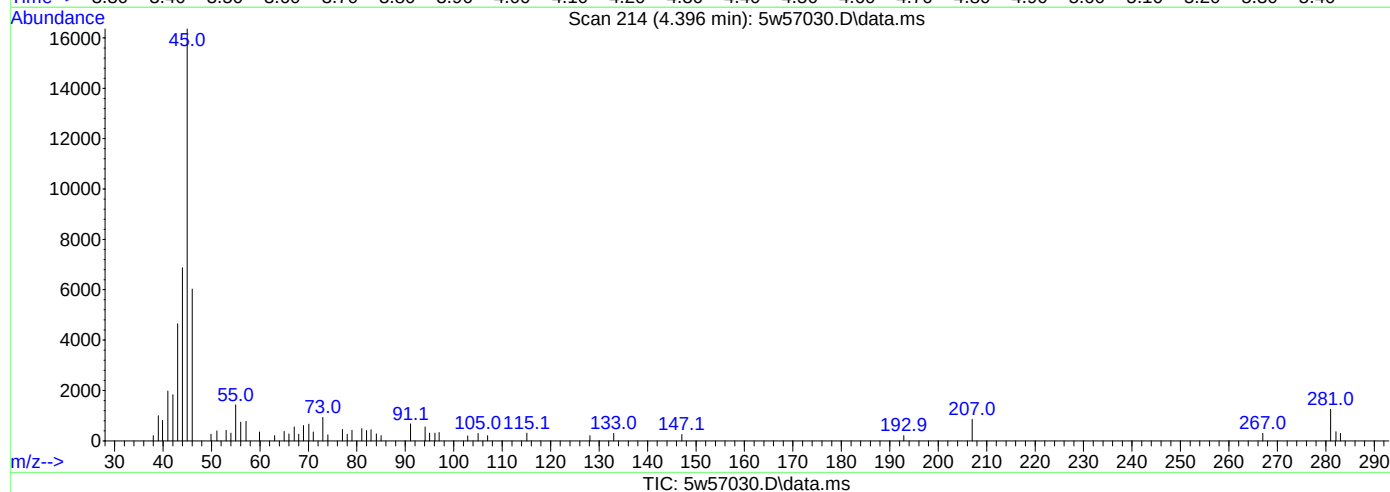
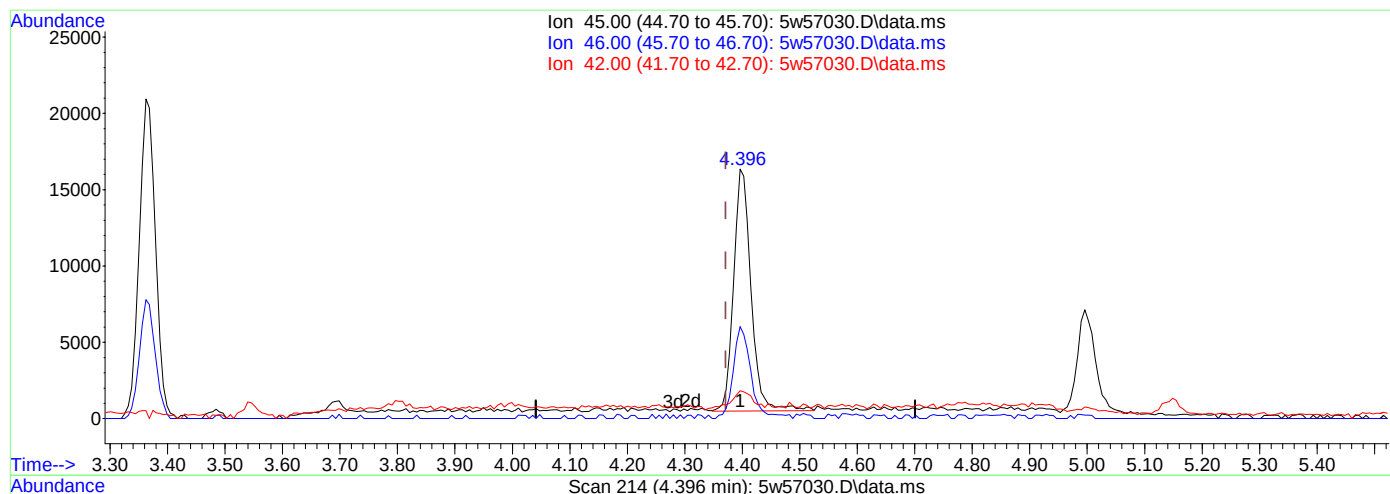
response 2796

Ion	Exp%	Act%
58.00	100	100
43.00	2.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:07:02 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(28) ETHANOL

4.396min (+0.025) 0.11PPBV

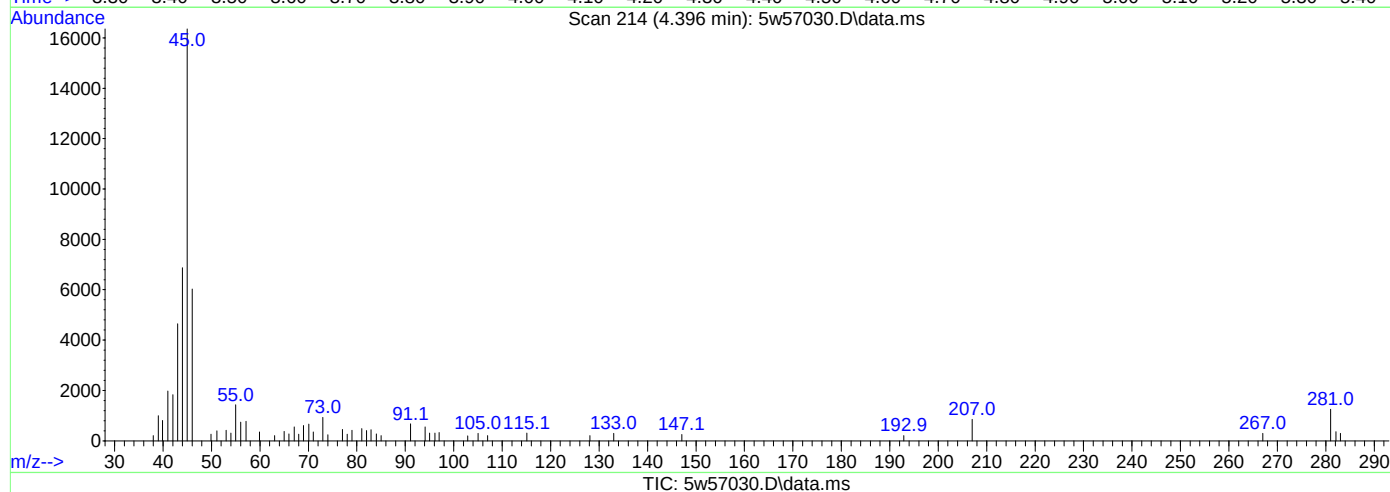
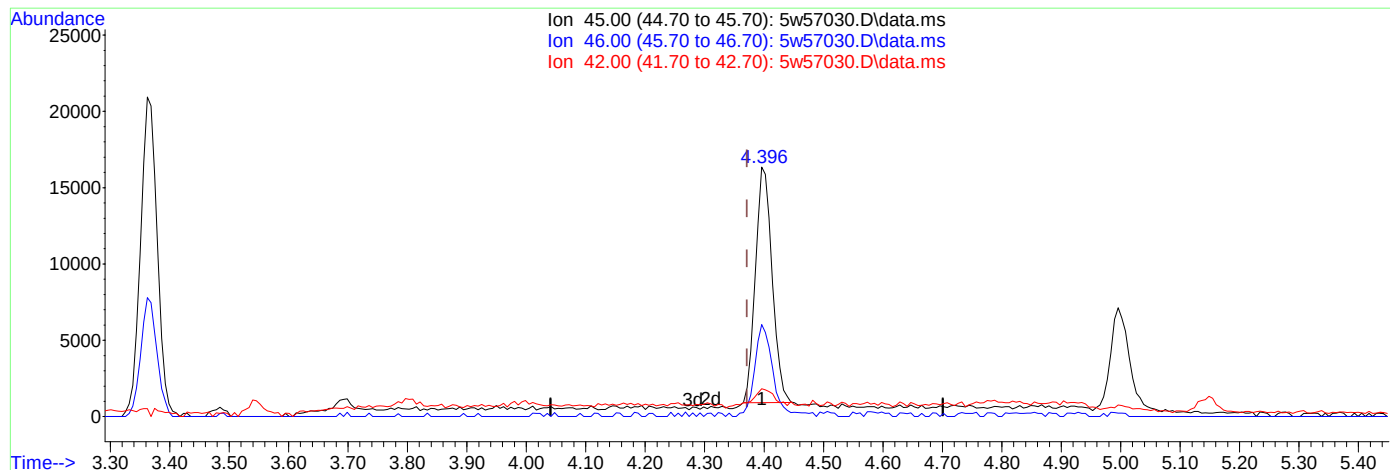
response 33483

Ion	Exp%	Act%
45.00	100	100
46.00	35.40	38.73
42.00	7.70	11.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:07:02 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(28) ETHANOL

4.396min (+0.025) 0.10PPBV m

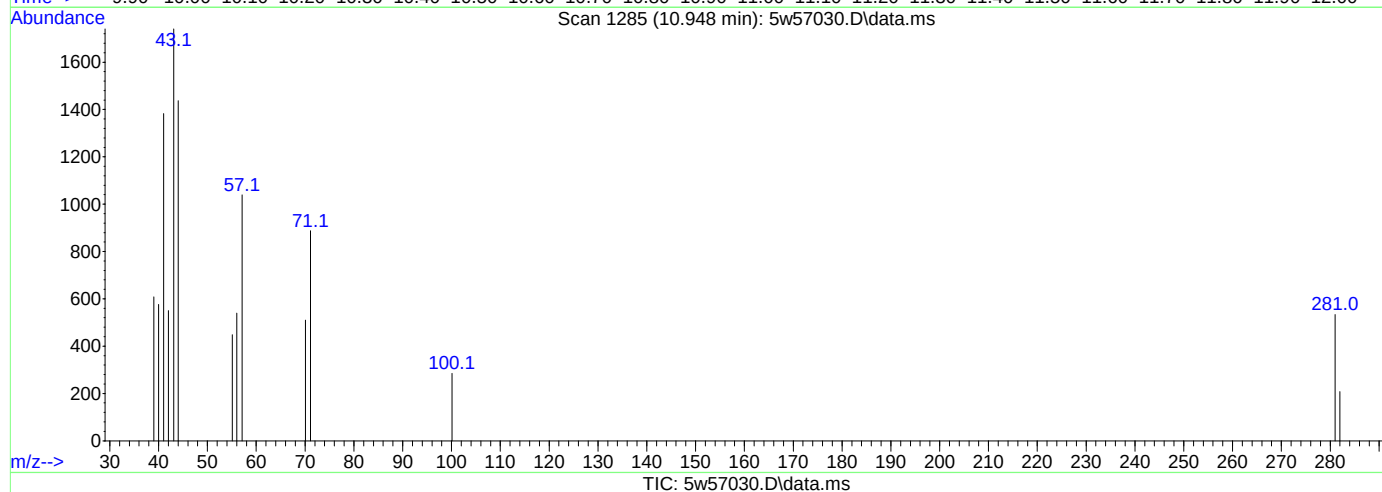
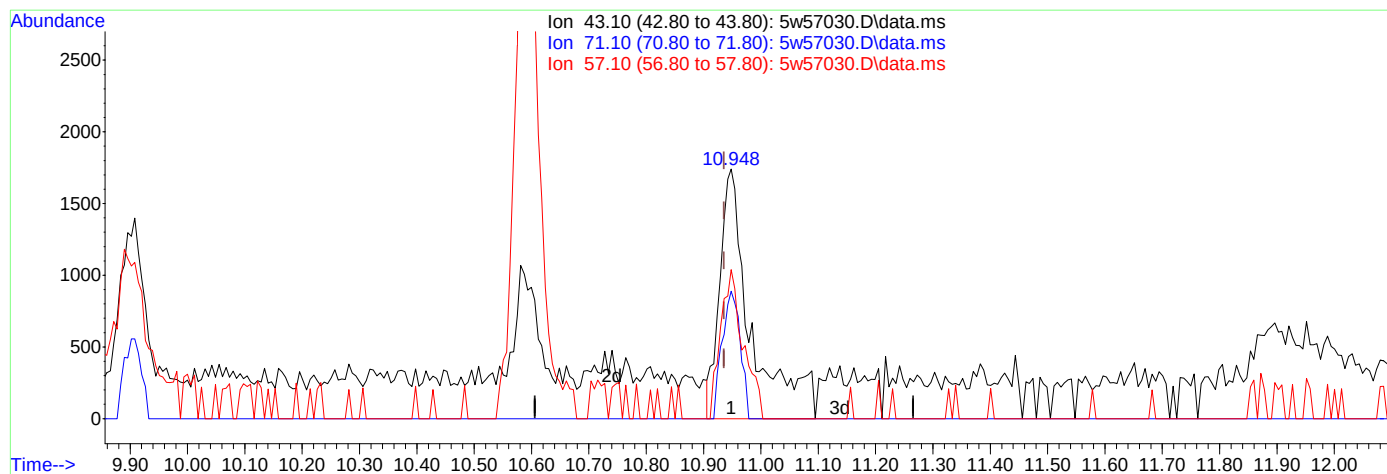
response 30026

Ion	Exp%	Act%
45.00	100	100
46.00	35.40	43.19
42.00	7.70	13.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:07:02 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(62) HEPTANE

10.948min (+0.012) 0.08PPBV

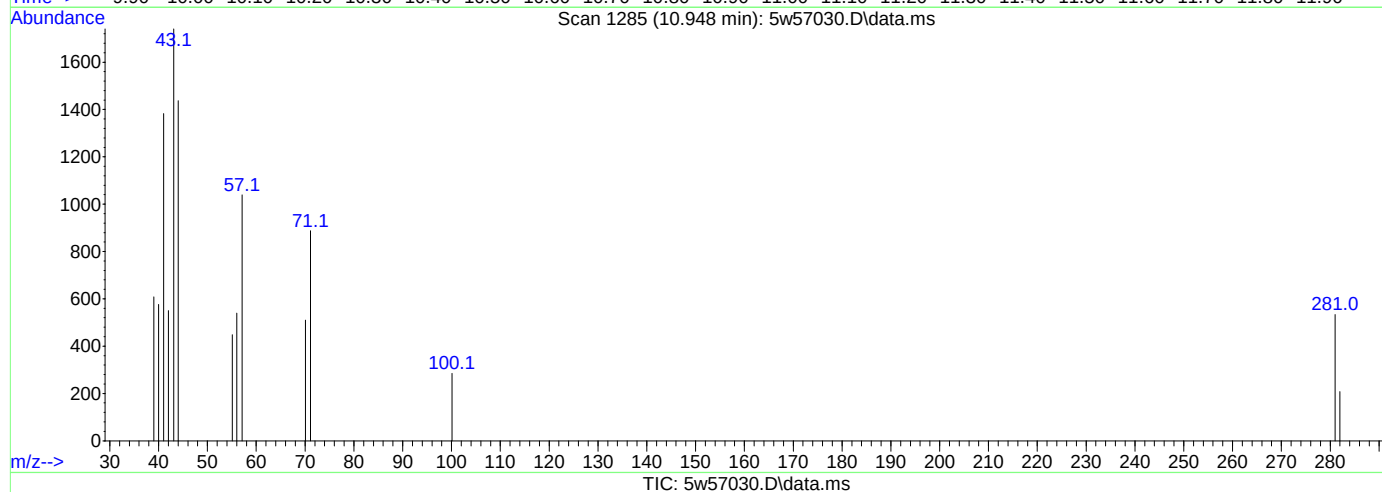
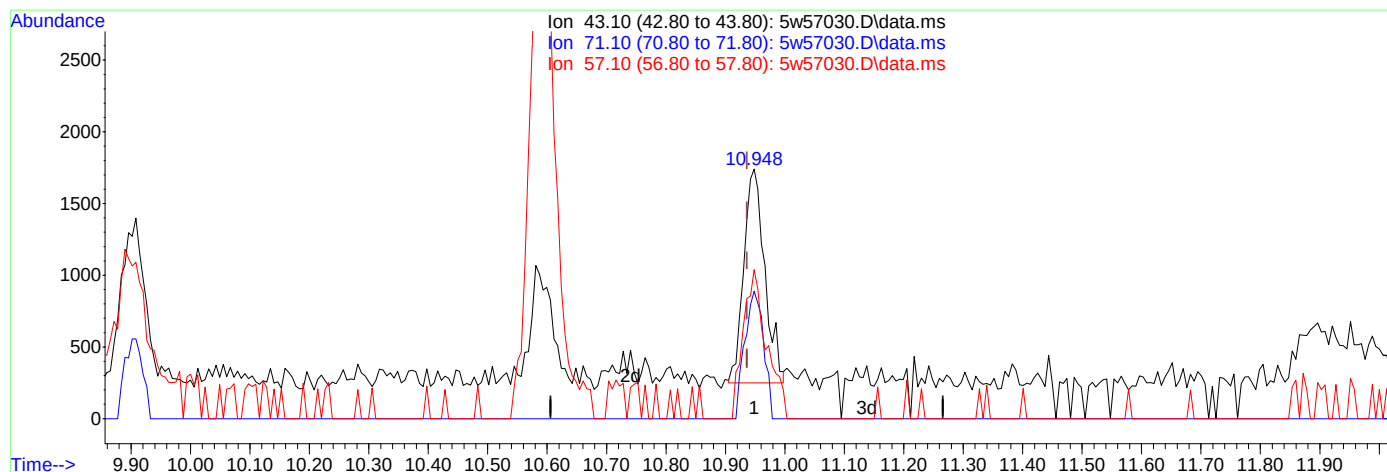
response 6624

Ion	Exp%	Act%
43.10	100	100
71.10	57.10	29.41
57.10	55.70	43.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57030.D
Acq On : 23 Feb 2025 2:03 am
Operator : benk
Sample : ic2187-0.04
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:07:02 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:39:31 2025
Response via : Initial Calibration



(62) HEPTANE

10.948min (+0.012) 0.05PPBV m

response 3636

Ion	Exp%	Act%
43.10	100	100
71.10	57.10	53.58
57.10	55.70	78.55
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57031.D
 Acq On : 23 Feb 2025 2:53 am
 Operator : benk
 Sample : ic2187-0.1
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 02:07:02 2025
 Quant Method : C:\msdchem\1\methods\M5w21487.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Mon Feb 24 01:41:59 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.565	128	451101	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.731	114	2121533	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	1002644	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.565	128	451707	10.00	PPBV	# 0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	17.500	95	1390931	10.77	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	107.70%

Target Compounds						Qvalue
3) FREON 152A	3.484	65	4180	0.11	PPBV	94
4) CHLORODIFLUOROMETHANE	3.515	67	1666	0.09	PPBV	82
5) CHLOROTRIFLUOROETHENE	3.546	116	8078	0.09	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.588	85	15468	0.10	PPBV	98
7) PROPYLENE	3.539	41	5113	0.11	PPBV #	64
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.692	65	12656m	0.09	PPBV	
9) FREON 114	3.778	85	17841	0.10	PPBV	95
10) CHLOROMETHANE	3.705	52	2390	0.11	PPBV	85
11) VINYL CHLORIDE	3.864	62	6485	0.10	PPBV	94
12) 1,3-BUTADIENE	3.962	54	4226m	0.10	PPBV	
13) n-BUTANE	3.998	43	7318m	0.11	PPBV	
14) BROMOMETHANE	4.151	94	6833	0.10	PPBV #	63
15) CHLOROETHANE	4.280	64	3092	0.10	PPBV #	61
16) DICHLOROFLUOROMETHANE	4.347	67	12342m	0.09	PPBV	
17) ACETONITRILE	4.561	41	3970m	0.11	PPBV	
18) ACROLEIN	4.653	56	1646m	0.07	PPBV	
19) FREON 123	4.653	83	12827m	0.09	PPBV	
20) FREON 123A	4.696	117	9680	0.11	PPBV	100
21) TRICHLOROFLUOROMETHANE	4.855	101	15592	0.10	PPBV	90
22) ISOPROPYL ALCOHOL	4.989	45	19248m	0.17	PPBV	
23) ACETONE	4.775	58	5856m	0.20	PPBV	
24) PENTANE	5.148	42	4417m	0.09	PPBV	
25) IODOMETHANE	5.326	142	15568	0.10	PPBV	98
26) 1,1-DICHLOROETHYLENE	5.387	96	5190	0.10	PPBV	97
27) CARBON DISULFIDE	5.760	76	14340	0.10	PPBV	91
28) ETHANOL	4.390	45	82267	1.70	PPBV	96
29) BROMOETHENE	4.537	106	6621	0.10	PPBV	94
30) ACRYLONITRILE	5.142	52	9374m	0.25	PPBV	
31) METHYLENE CHLORIDE	5.497	84	7942	0.15	PPBV	95
32) 3-CHLOROPROPENE	5.601	76	2291	0.09	PPBV #	29
33) FREON 113	5.723	151	9157	0.09	PPBV	97
34) TRANS-1,2-DICHLOROETHYLENE	6.354	96	5190	0.09	PPBV	95
35) TERTIARY BUTYL ALCOHOL	5.540	59	9675	0.09	PPBV	95
36) METHYL TERTIARY BUTYL ETHER	6.672	73	14393	0.09	PPBV	87
37) TETRAHYDROFURAN	8.256	72	1435	0.07	PPBV #	1
38) HEXANE	7.608	57	8962	0.11	PPBV #	75
39) VINYL ACETATE	6.763	86	280	0.03	PPBV #	1
40) 1,1-DICHLOROETHANE	6.555	63	9557	0.10	PPBV	99
41) METHYL ETHYL KETONE	7.063	72	949	0.04	PPBV #	61
42) cis-1,2-DICHLOROETHYLENE	7.406	96	5748	0.10	PPBV	95
43) DIISOPROPYL ETHER	7.669	59	1745	0.08	PPBV #	11
44) ETHYL ACETATE	7.748	61	789	0.05	PPBV #	38
45) METHYL ACRYLATE	7.608	55	1561	0.02	PPBV #	64
46) CHLOROFORM	7.712	83	11896	0.10	PPBV	91
47) 2,4-DIMETHYLPENTANE	8.562	57	10159	0.10	PPBV	96
48) 1,1,1-TRICHLOROETHANE	8.782	97	12068	0.10	PPBV	96
49) CARBON TETRACHLORIDE	9.461	117	12794	0.09	PPBV	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 02:07:02 2025

Quant Method : C:\msdchem\1\methods\M5w21487.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 01:41:59 2025

Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	8.513	62	7752	0.10	PPBV	95
52)	BENZENE	9.302	78	16022	0.10	PPBV	99
53)	CYCLOHEXANE	9.602	84	6343	0.09	PPBV	90
54)	2,3-DIMETHYLPENTANE	9.902	71	3166	0.09	PPBV #	78
55)	TRICHLOROETHYLENE	10.563	95	7840	0.09	PPBV	97
56)	1,2-DICHLOROPROPANE	10.275	63	6362	0.09	PPBV	92
57)	DIBROMOMETHANE	10.244	174	8325	0.09	PPBV	96
58)	ETHYL ACRYLATE	10.587	55	4683m	0.03	PPBV	
59)	BROMODICHLOROMETHANE	10.514	83	13298	0.09	PPBV	96
60)	2,2,4-TRIMETHYLPENTANE	10.593	57	25503	0.10	PPBV #	91
61)	1,4-DIOXANE	10.703	88	3308	0.08	PPBV #	1
62)	HEPTANE	10.942	43	8693	0.09	PPBV	94
63)	METHYL METHACRYLATE	10.930	69	3842	0.07	PPBV #	1
64)	METHYL ISOBUTYL KETONE	11.817	58	3161	0.07	PPBV #	75
65)	cis-1,3-DICHLOROPROPENE	11.658	75	9405	0.09	PPBV #	68
66)	TOLUENE	12.887	92	11328	0.09	PPBV	95
67)	1,3-DICHLOROPROPANE	12.936	76	8364	0.09	PPBV #	99
68)	trans-1,3-DICHLOROPROPENE	12.355	75	7624	0.08	PPBV #	66
69)	1,1,2-TRICHLOROETHANE	12.539	83	6036	0.09	PPBV	99
71)	2-HEXANONE	13.481	58	2862m	0.05	PPBV	
72)	ETHYL METHACRYLATE	13.371	69	7421	0.09	PPBV #	62
73)	TETRACHLOROETHYLENE	14.386	164	8912	0.10	PPBV	97
74)	DIBROMOCHLOROMETHANE	13.432	129	13510	0.09	PPBV	98
75)	1,2-DIBROMOETHANE	13.756	107	11276	0.10	PPBV #	99
76)	OCTANE	14.245	43	11898	0.10	PPBV	92
77)	1,1,1,2-TETRACHLOROETHANE	15.298	131	9047	0.09	PPBV	94
78)	CHLOROBENZENE	15.322	112	16676	0.10	PPBV	97
79)	ETHYLBENZENE	15.897	91	25242	0.10	PPBV	96
80)	m,p-XYLENE	16.154	106	18988	0.19	PPBV	90
81)	o-XYLENE	16.827	106	9344	0.10	PPBV	90
82)	STYRENE	16.699	104	14589	0.10	PPBV	90
83)	NONANE	17.225	43	15354	0.12	PPBV	89
84)	BROMOFORM	16.215	173	14049	0.10	PPBV	96
86)	1,1,2,2-TETRACHLOROETHANE	16.839	83	15244	0.10	PPBV	97
87)	1,2,3-TRICHLOROPROPANE	17.029	75	11356	0.10	PPBV	97
88)	ISOPROPYLBENZENE	17.739	105	27174	0.10	PPBV	97
89)	BROMOBENZENE	17.836	77	14414	0.10	PPBV	93
90)	2-CHLOROTOLUENE	18.479	126	6945	0.09	PPBV	93
91)	n-PROPYLBENZENE	18.571	120	7394	0.09	PPBV	94
92)	4-ETHYLTOLUENE	18.815	105	26838	0.10	PPBV	97
93)	1,3,5-TRIMETHYLBENZENE	18.944	105	24786	0.10	PPBV	95
94)	ALPHA-METHYLSTYRENE	19.207	118	10410	0.09	PPBV	93
95)	tert-BUTYLBENZENE	19.537	134	4733	0.09	PPBV #	86
96)	1,2,4-TRIMETHYLBENZENE	19.562	105	23632	0.10	PPBV #	32
97)	m-DICHLOROBENZENE	19.757	146	18598	0.10	PPBV	98
98)	BENZYL CHLORIDE	19.764	91	16418	0.08	PPBV	95
99)	p-DICHLOROBENZENE	19.868	146	21655	0.11	PPBV	98
100)	sec-BUTYLBENZENE	19.953	134	5995	0.09	PPBV #	74
101)	1,2,3-TRIMETHYLBENZENE	20.173	105	23673	0.10	PPBV #	96
102)	p-ISOPROPYLTOLUENE	20.204	134	6970	0.09	PPBV	90
103)	o-DICHLOROBENZENE	20.345	146	18993	0.10	PPBV	97
104)	n-BUTYLBENZENE	20.804	134	6488	0.09	PPBV #	73
105)	HEXACHLOROETHANE	21.250	117	10286	0.09	PPBV	98
106)	HEXACHLOROBUTADIENE	23.196	225	16604	0.10	PPBV	98
107)	1,2,4-TRICHLOROBENZENE	23.073	180	15032	0.09	PPBV	96
108)	NAPHTHALENE	22.761	128	45473	0.13	PPBV	94
110)	TVHC as equiv Pentane	5.142	TIC	47670m	0.14	PPBV	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 02:07:02 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration

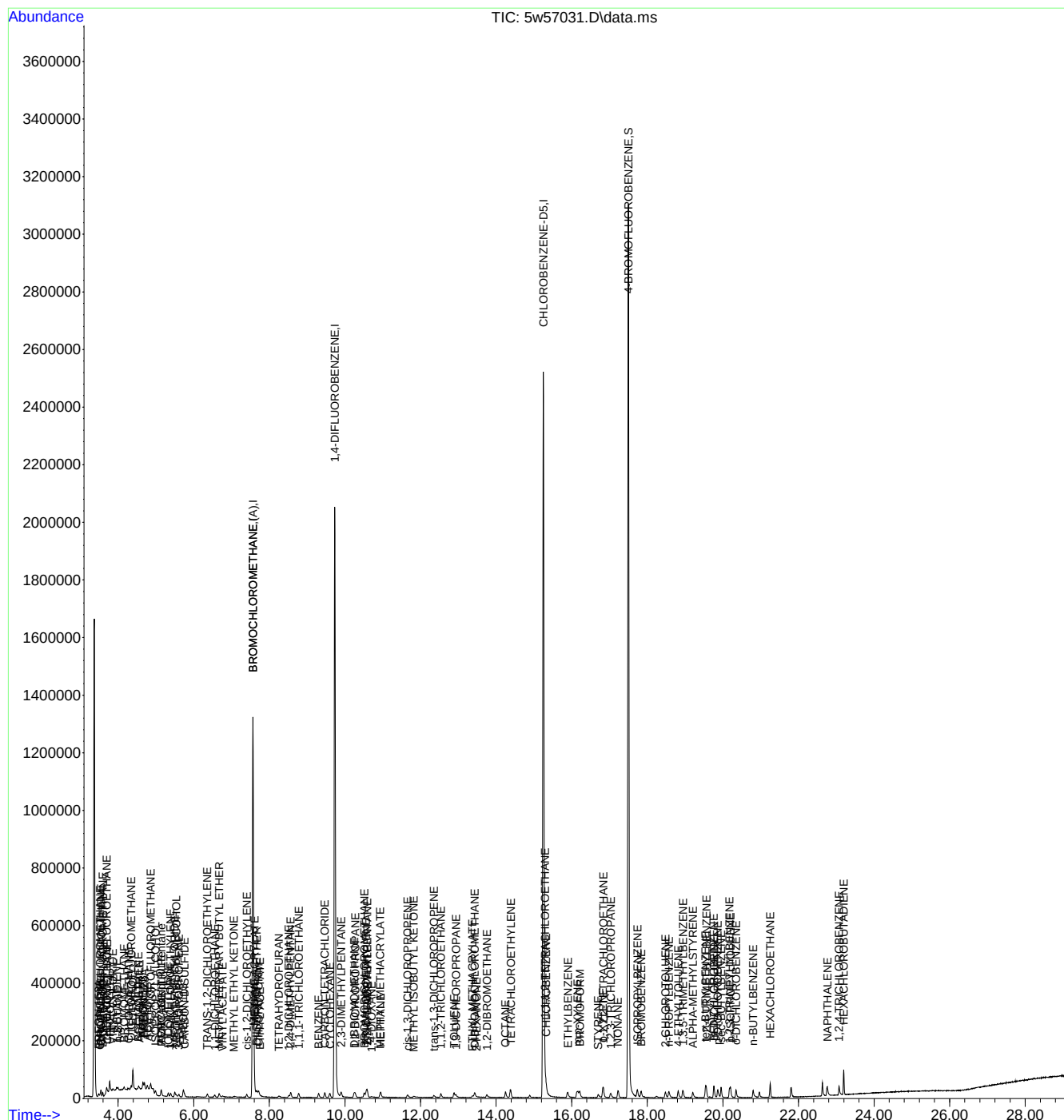
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
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ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 02:07:02 2025
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Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

V5W2187-IC2187

Method:

TO-15

Lab FileID:

5W57031.D

Analyst approved:

02/24/25 10:48 Benjamin Kim

Injection Time:

02/23/25 02:53

Supervisor approved:

02/24/25 16:39 Kanya Veerawat

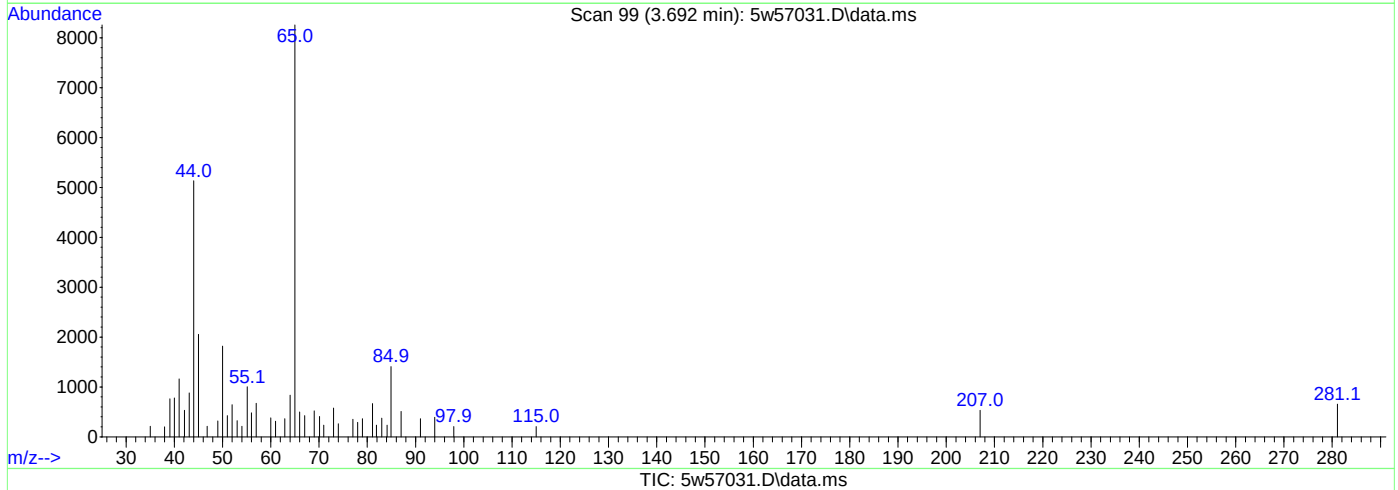
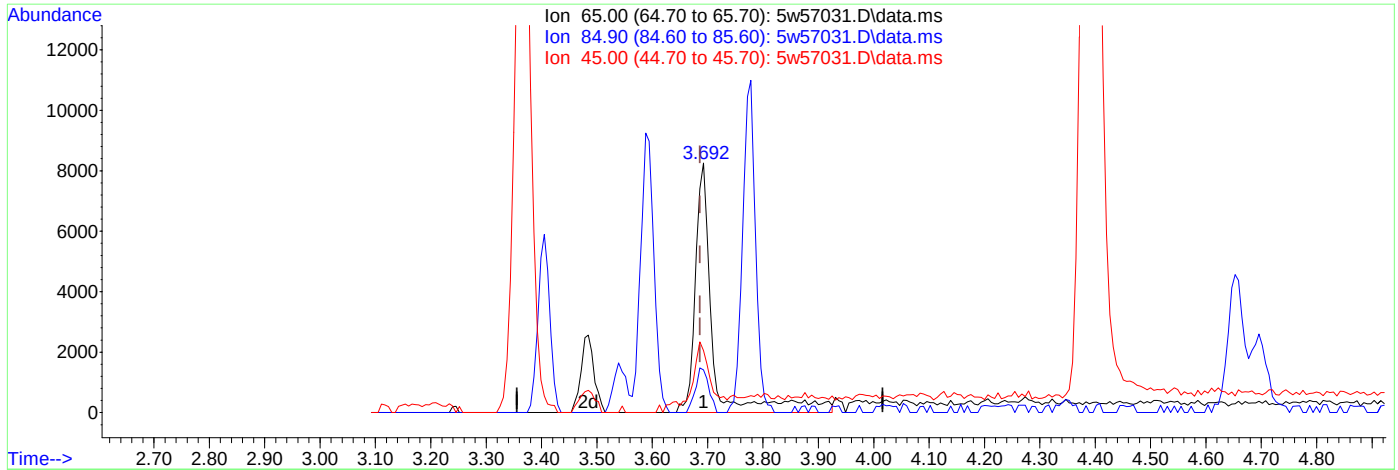
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 142B	75-68-3		3.69	Poor instrument integration
1,3-Butadiene	106-99-0		3.96	Poor instrument integration
n-Butane	106-97-8		4.00	Poor instrument integration
Dichlorofluoromethane	75-43-4		4.35	Poor instrument integration
Acetonitrile	75-05-8		4.56	Poor instrument integration
Acrolein	107-02-8		4.65	Poor instrument integration
Freon 123	306-83-2		4.65	Poor instrument integration
Acetone (2-Propanone)	67-64-1		4.78	Poor instrument integration
Isopropyl Alcohol	67-63-0		4.99	Poor instrument integration
Acrylonitrile	107-13-1		5.14	Poor instrument integration
TVHC As Equiv Pentane			5.14	Poor instrument integration
Pentane	109-66-0		5.15	Poor instrument integration
Ethyl Acrylate	140-88-5		10.59	Poor instrument integration
2-Hexanone	591-78-6		13.48	Poor instrument integration

7.7.13.1
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.692min (+0.006) 0.13PPBV

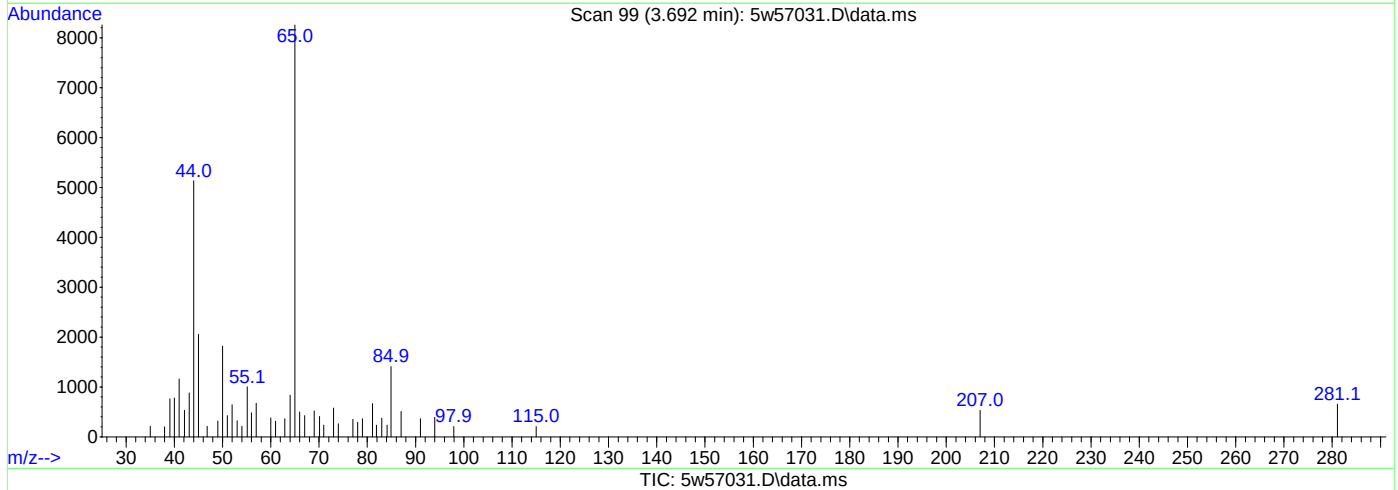
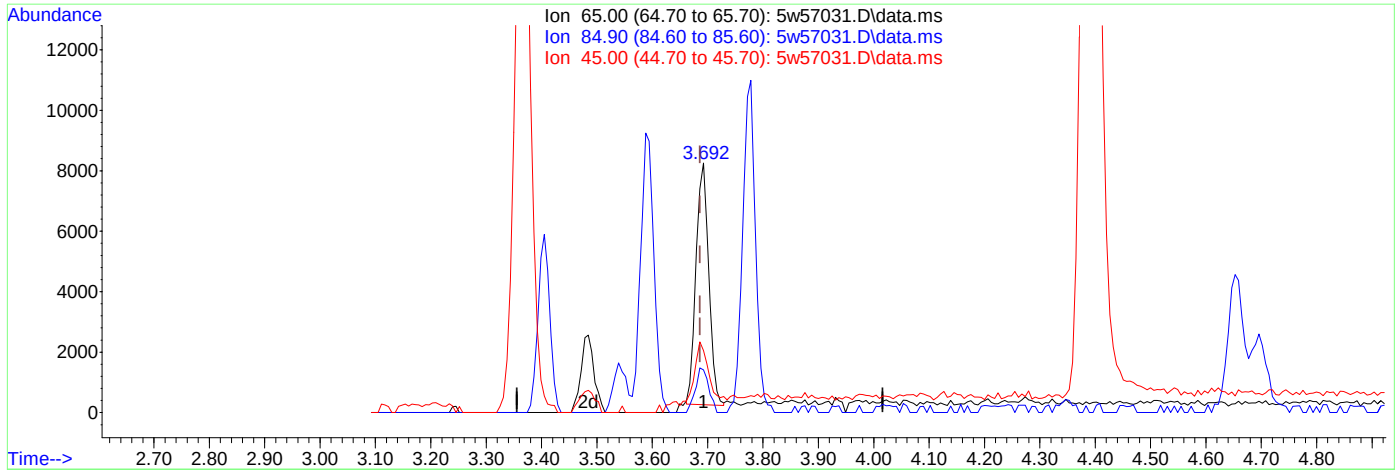
response 17920

Ion	Exp%	Act%
65.00	100	100
84.90	15.90	13.59
45.00	20.80	55.41#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.692min (+0.006) 0.09PPBV m

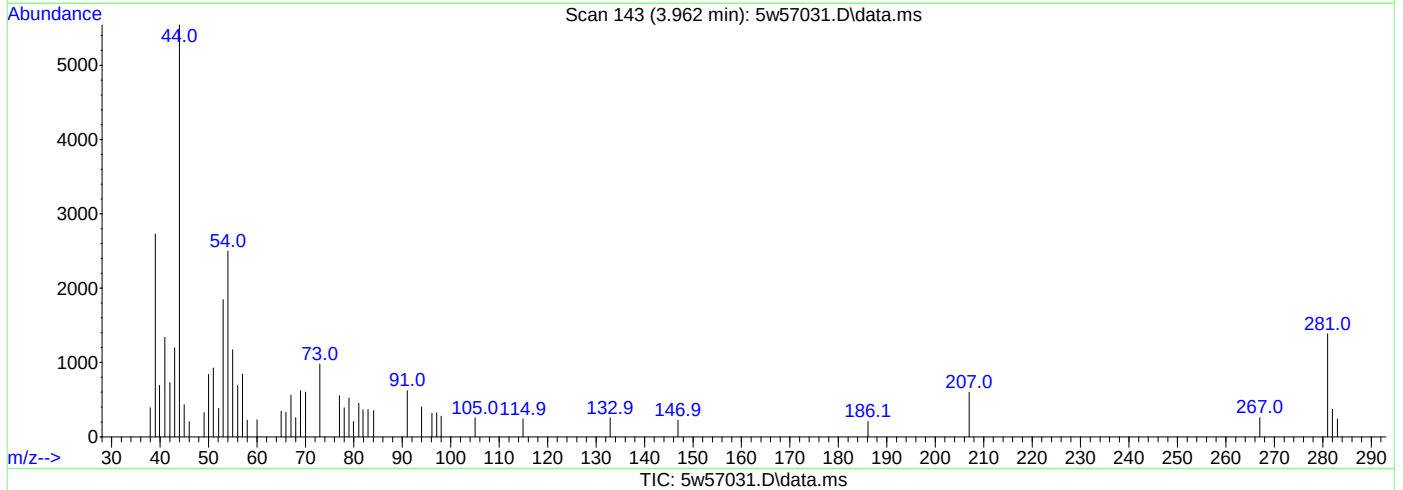
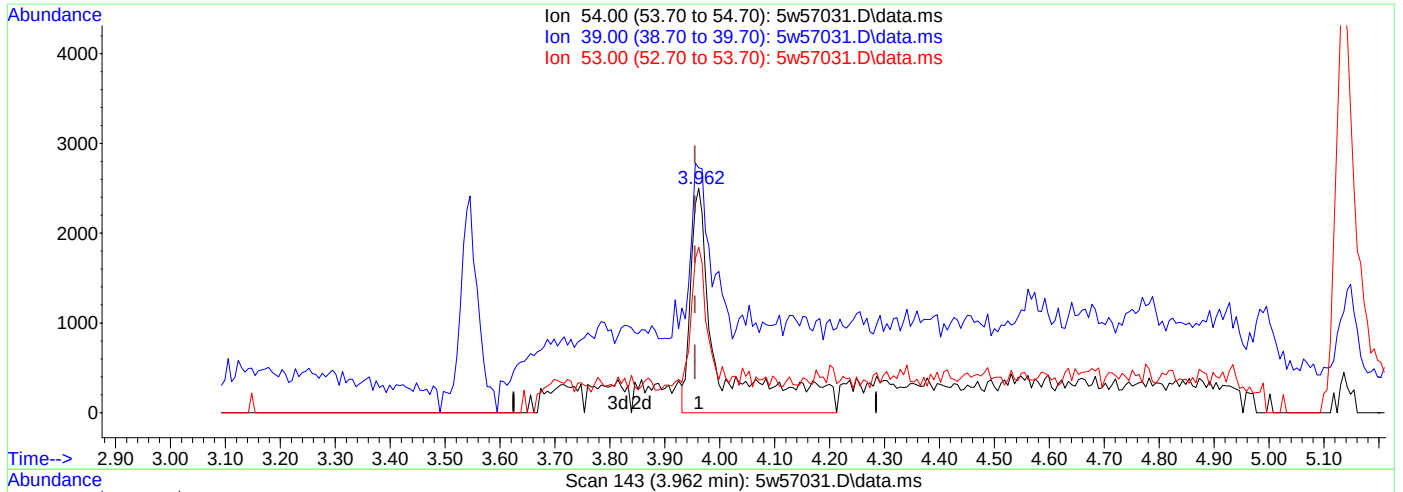
response 12656

Ion	Exp%	Act%
65.00	100	100
84.90	15.90	19.24
45.00	20.80	78.46#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(12) 1,3-BUTADIENE

3.962min (+0.007) 0.22PPBV

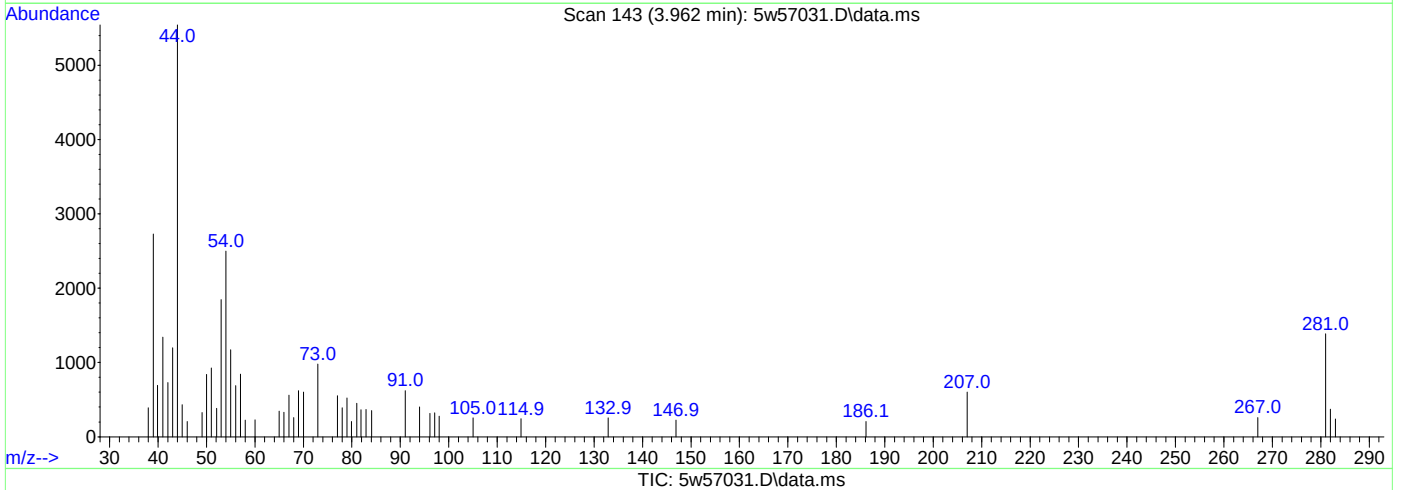
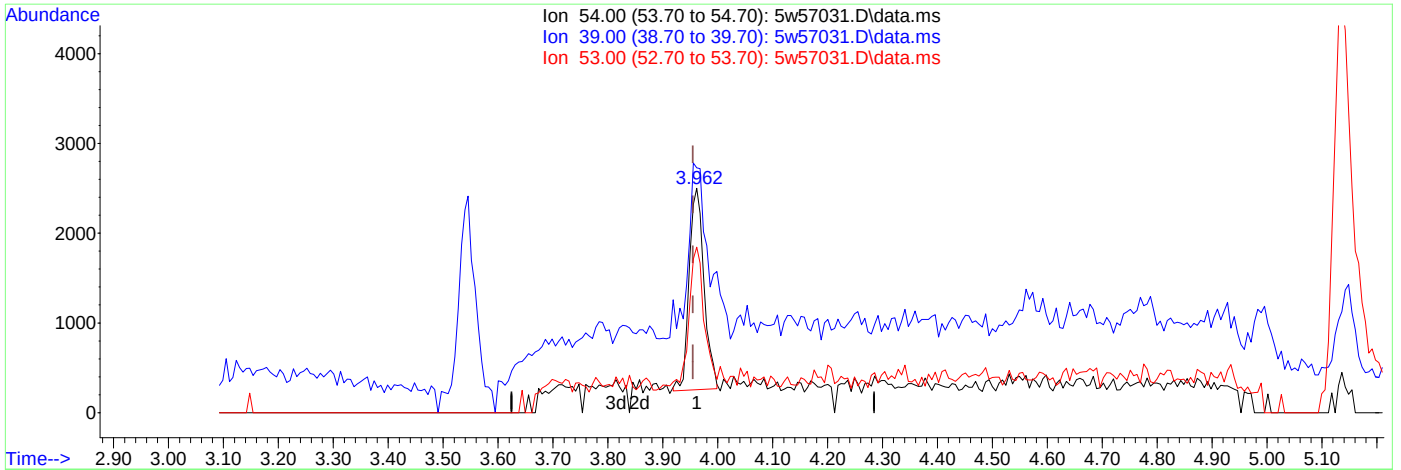
response 9039

Ion	Exp%	Act%
54.00	100	100
39.00	103.30	49.67#
53.00	70.10	33.38#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(12) 1,3-BUTADIENE

3.962min (+0.007) 0.10PPBV m

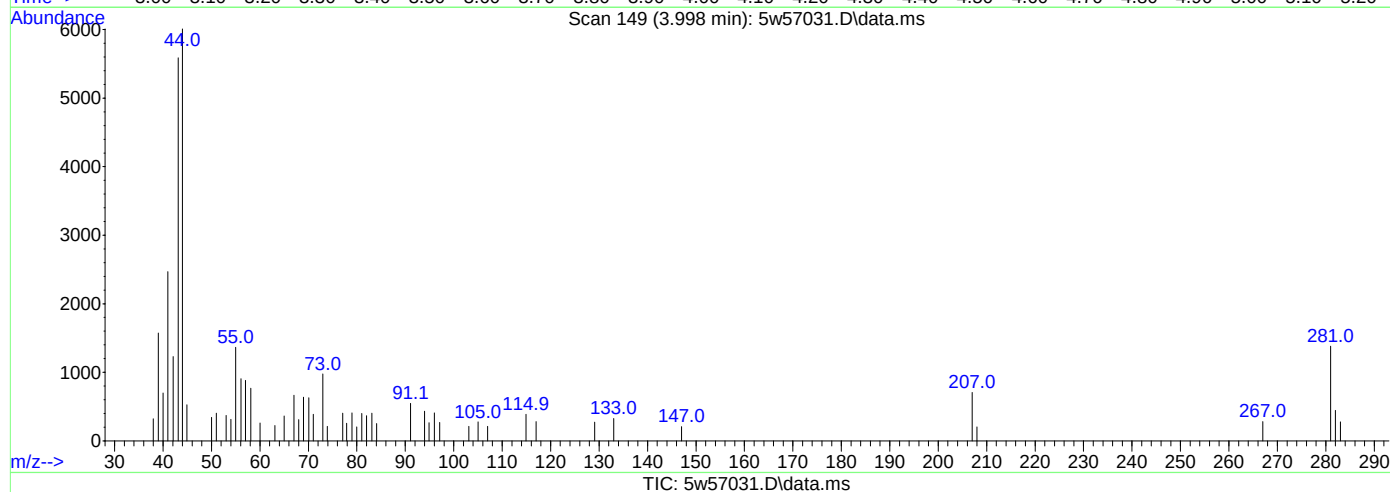
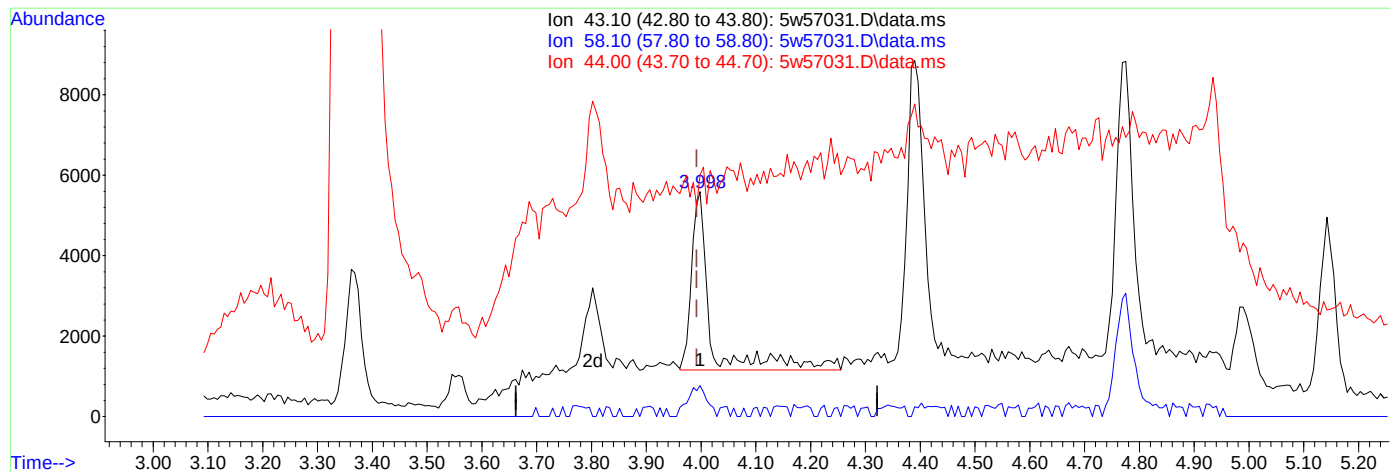
response 4226

Ion	Exp%	Act%
54.00	100	100
39.00	103.30	106.25
53.00	70.10	71.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(13) n-BUTANE

3.998min (+0.006) 0.16PPBV

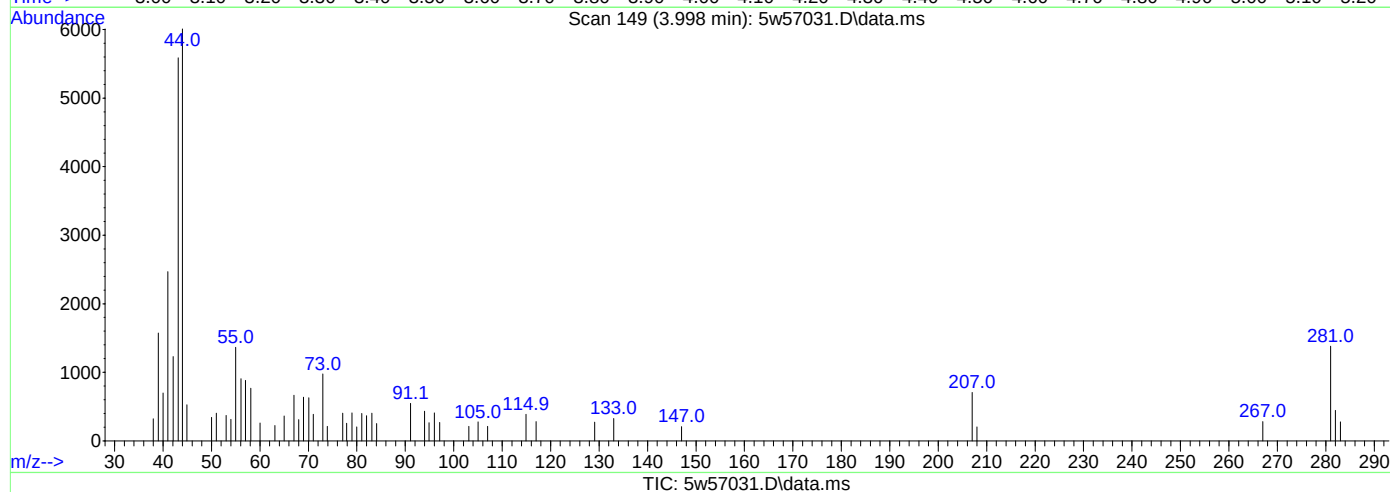
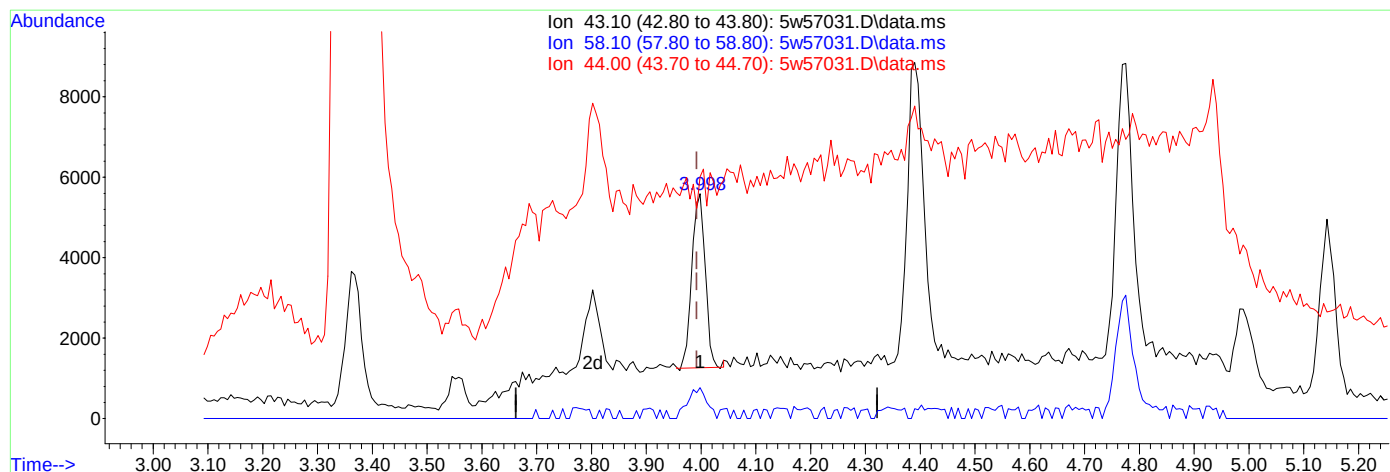
response 10643

Ion	Exp%	Act%
43.10	100	100
58.10	13.80	17.28
44.00	5.50	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(13) n-BUTANE

3.998min (+0.006) 0.11PPBV m

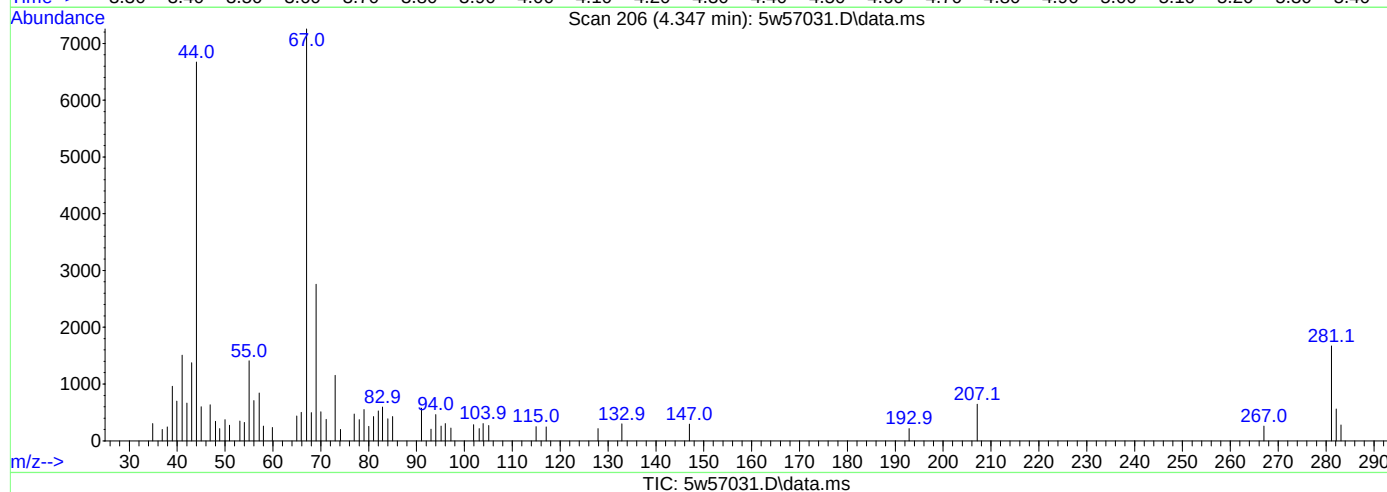
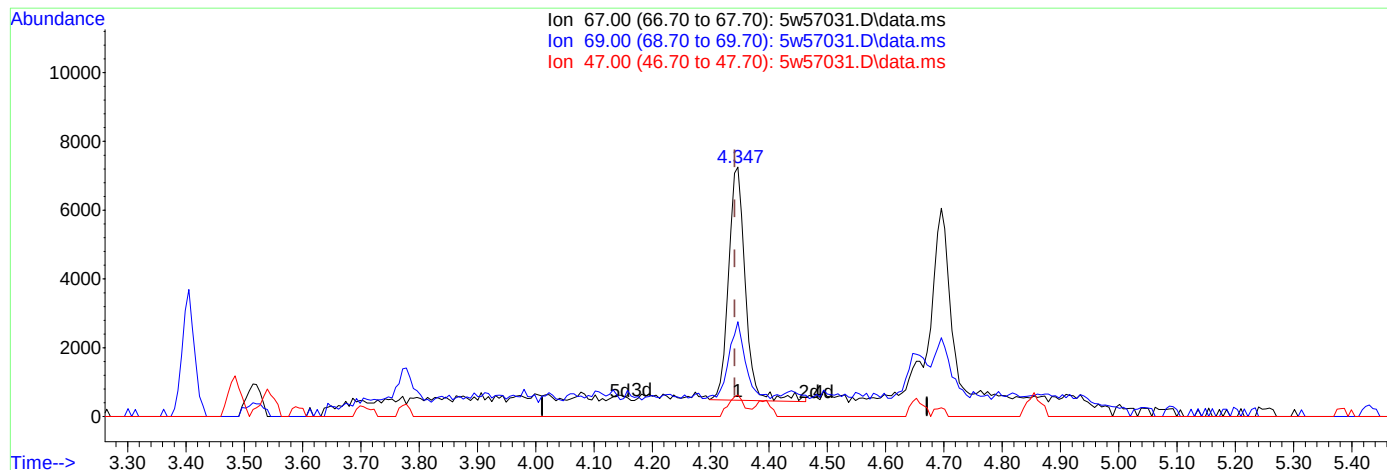
response 7318

Ion	Exp%	Act%
43.10	100	100
58.10	13.80	25.13
44.00	5.50	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(16) DICHLOROFLUOROMETHANE

4.347min (+0.006) 0.10PPBV

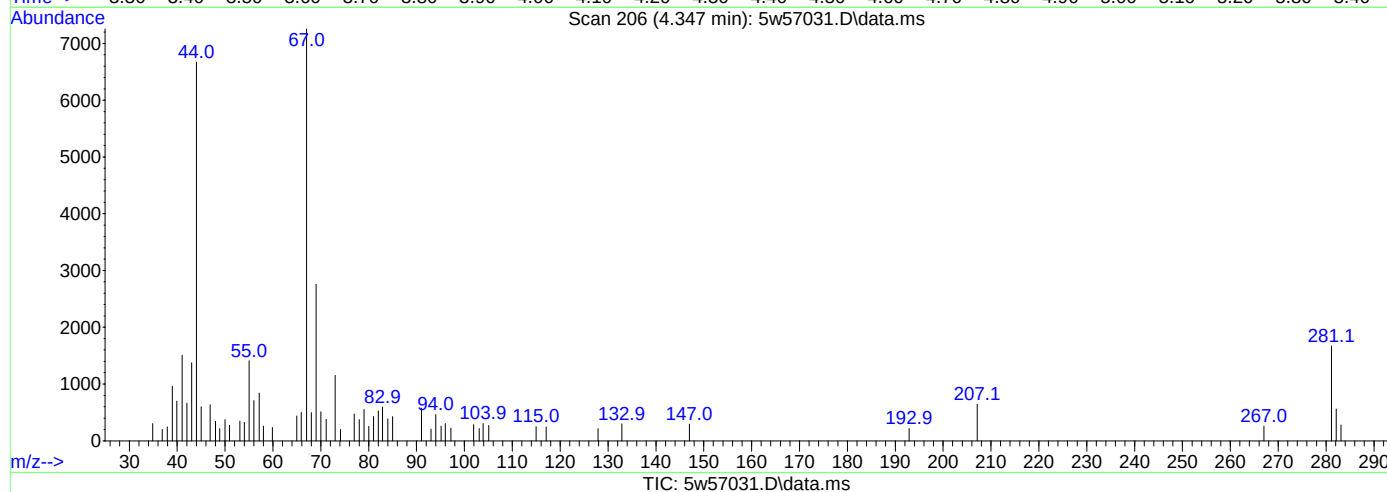
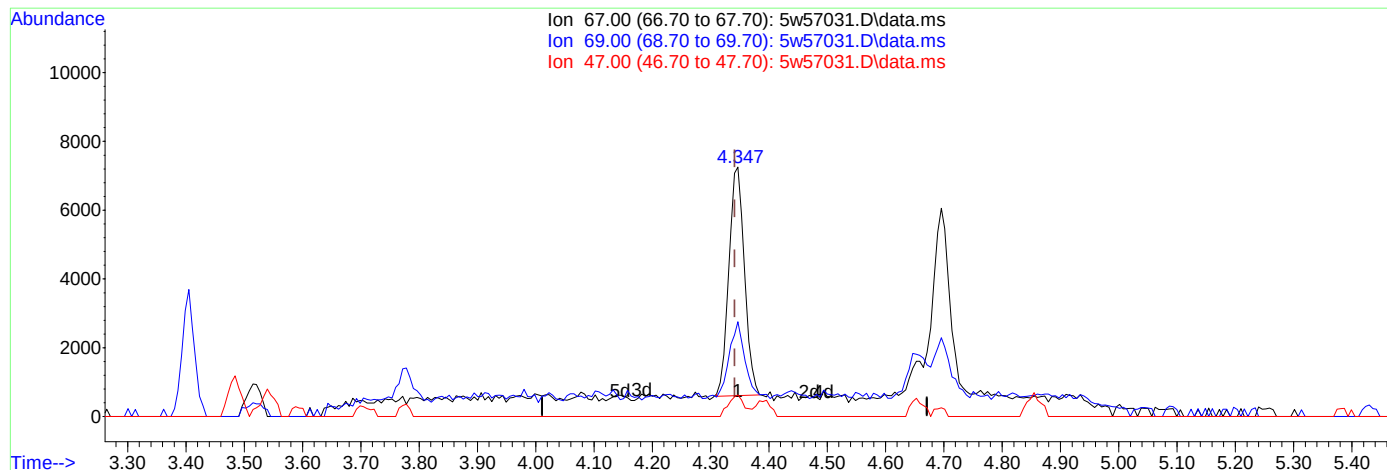
response 13647

Ion	Exp%	Act%
67.00	100	100
69.00	32.50	33.64
47.00	8.40	9.06
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(16) DICHLOROFLUOROMETHANE

4.347min (+0.006) 0.09PPBV m

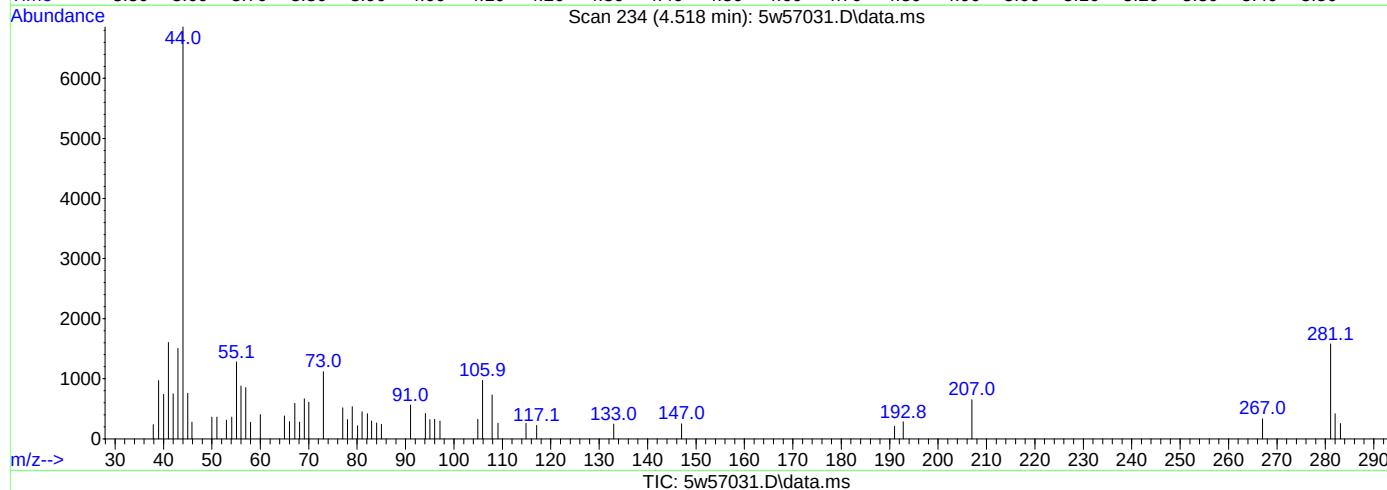
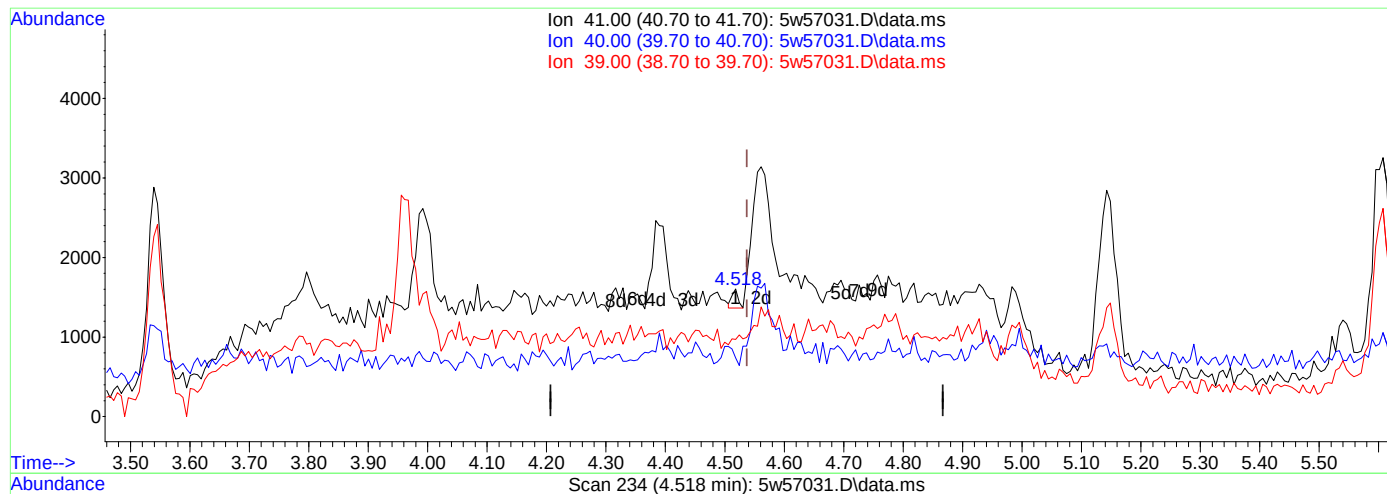
response 12342

Ion	Exp%	Act%
67.00	100	100
69.00	32.50	37.20
47.00	8.40	10.02
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
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Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(17) ACETONITRILE

4.518min (-0.019) 0.00PPBV

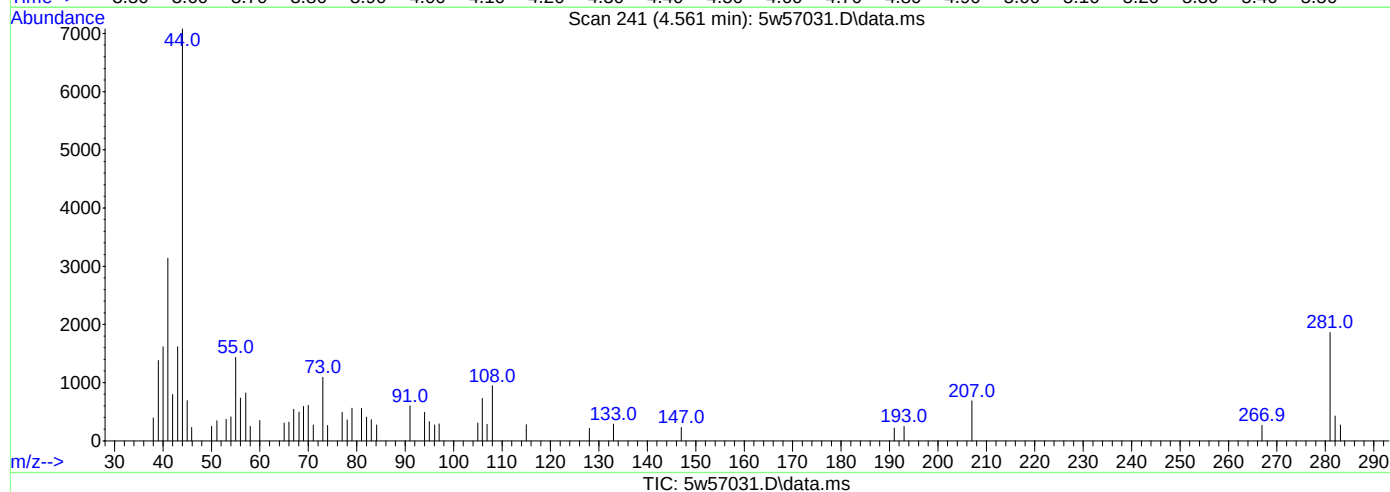
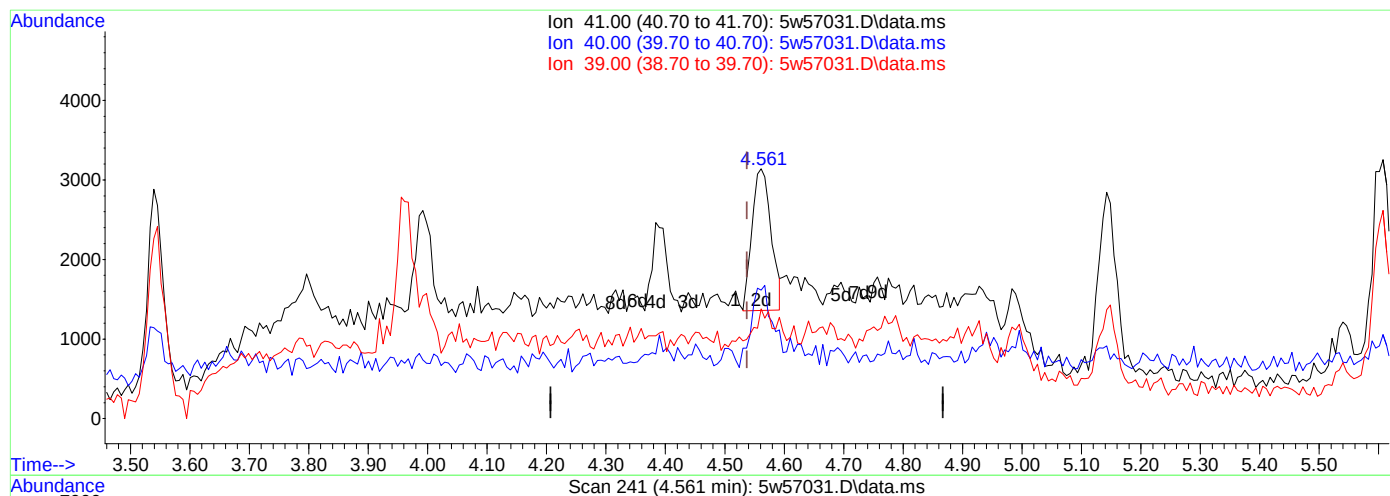
response 172

Ion	Exp%	Act%
41.00	100	100
40.00	53.20	0.00#
39.00	19.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(17) ACETONITRILE

4.561min (+0.024) 0.11PPBV m

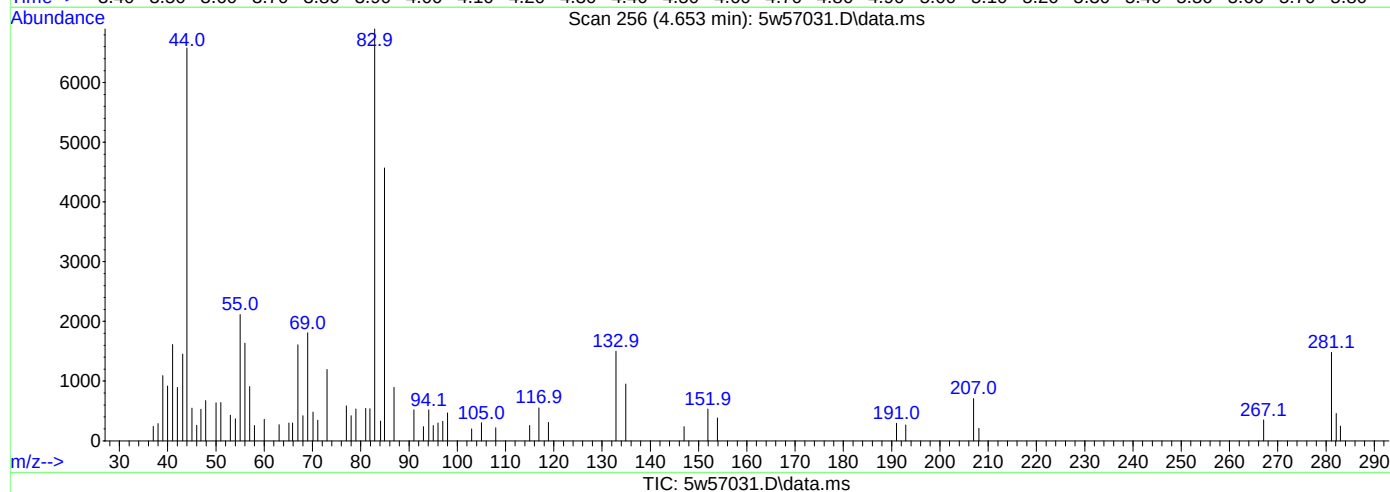
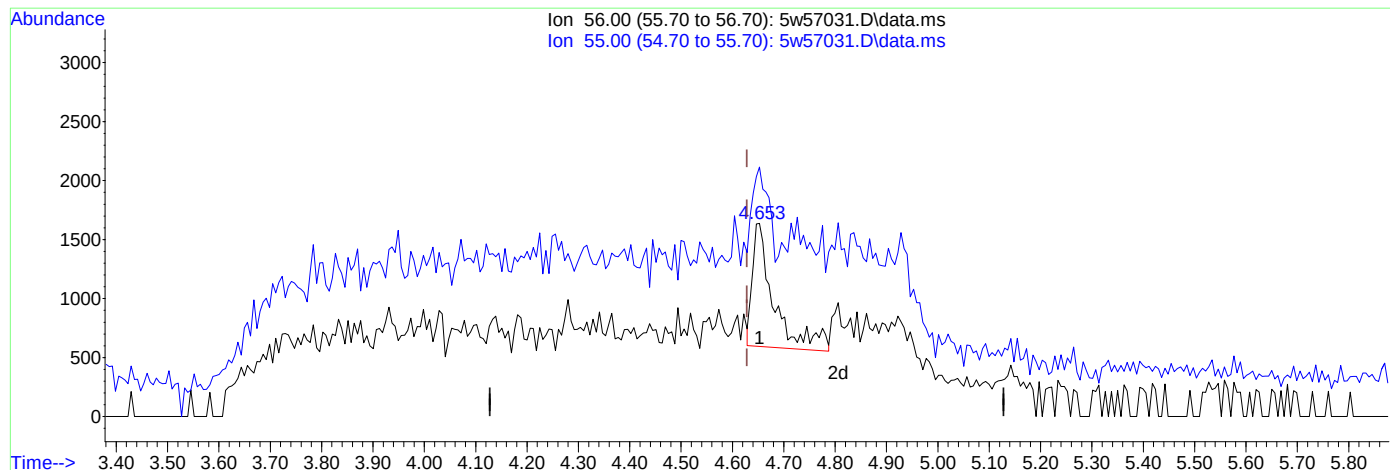
response 3970

Ion	Exp%	Act%
41.00	100	100
40.00	53.20	0.00#
39.00	19.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(18) ACROLEIN

4.653min (+0.025) 0.13PPBV

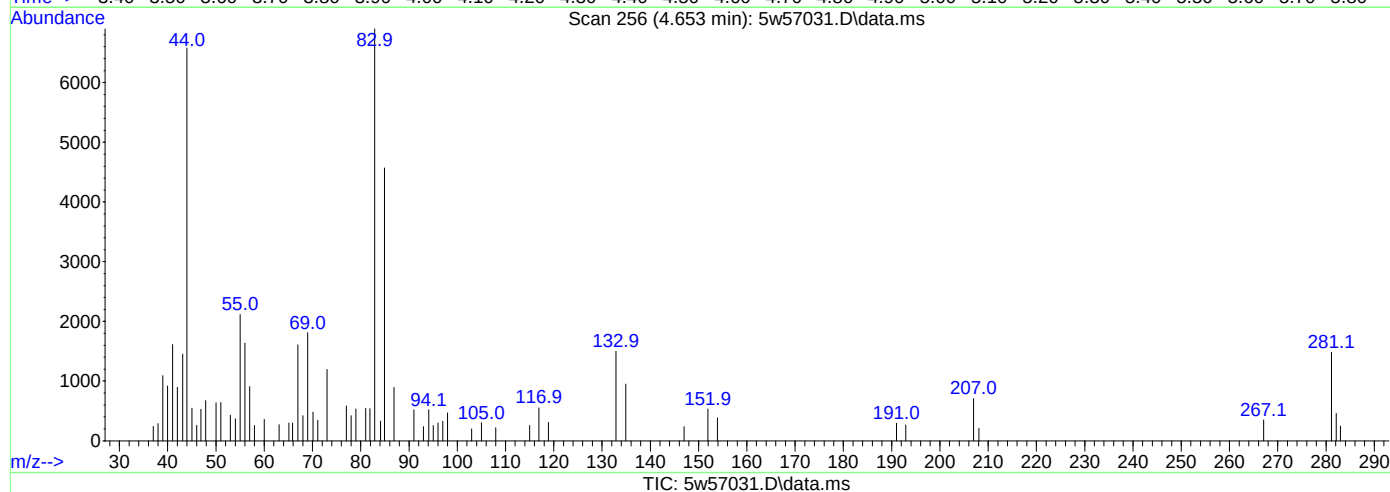
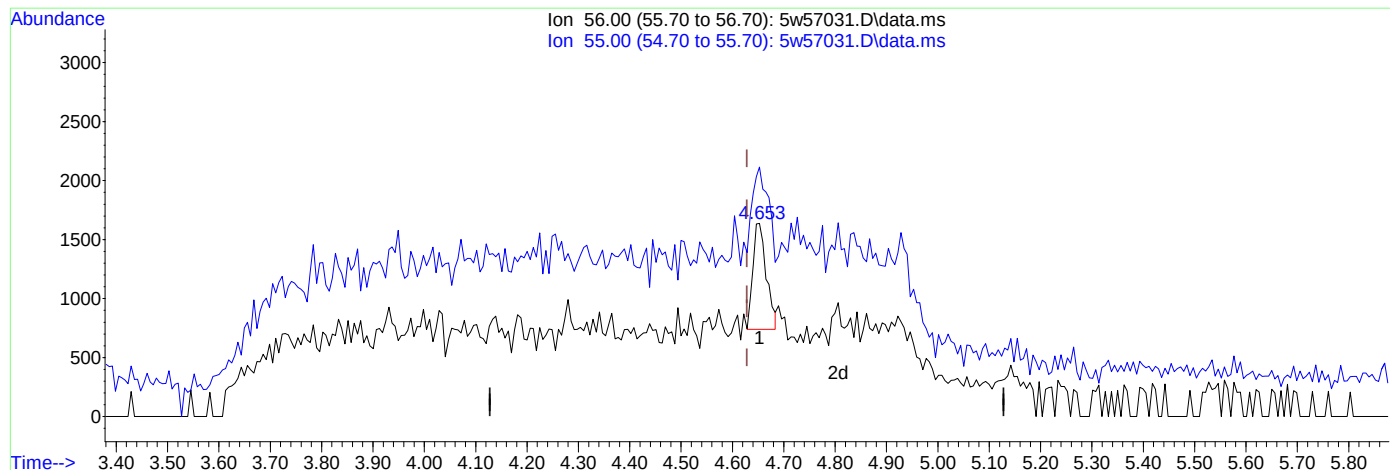
response 2996

Ion	Exp%	Act%
56.00	100	100
55.00	66.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(18) ACROLEIN

4.653min (+0.025) 0.07PPBV m

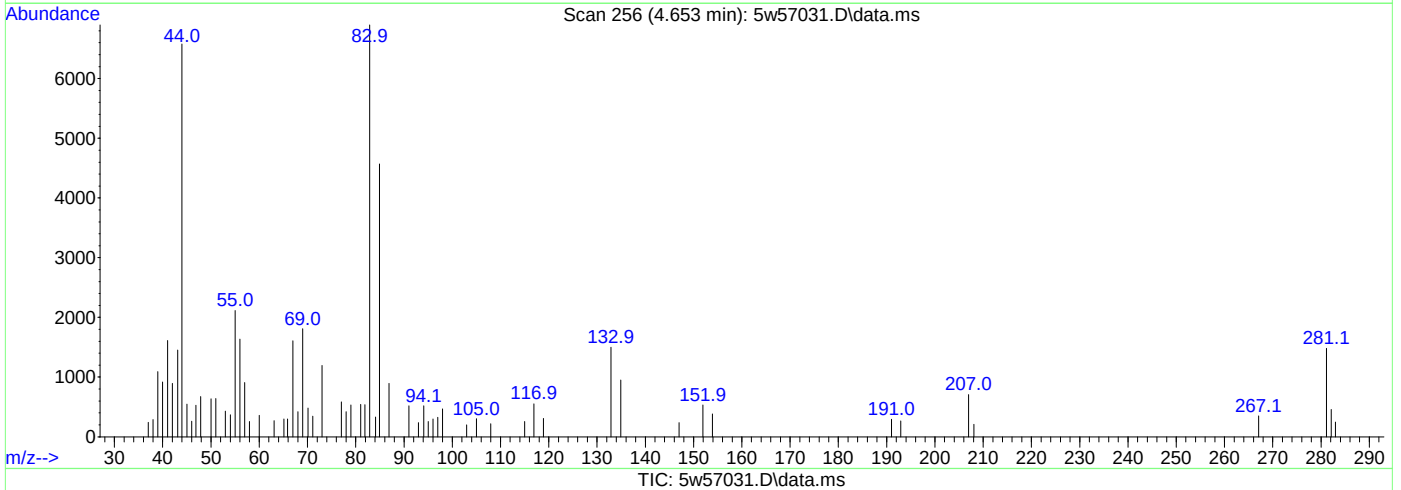
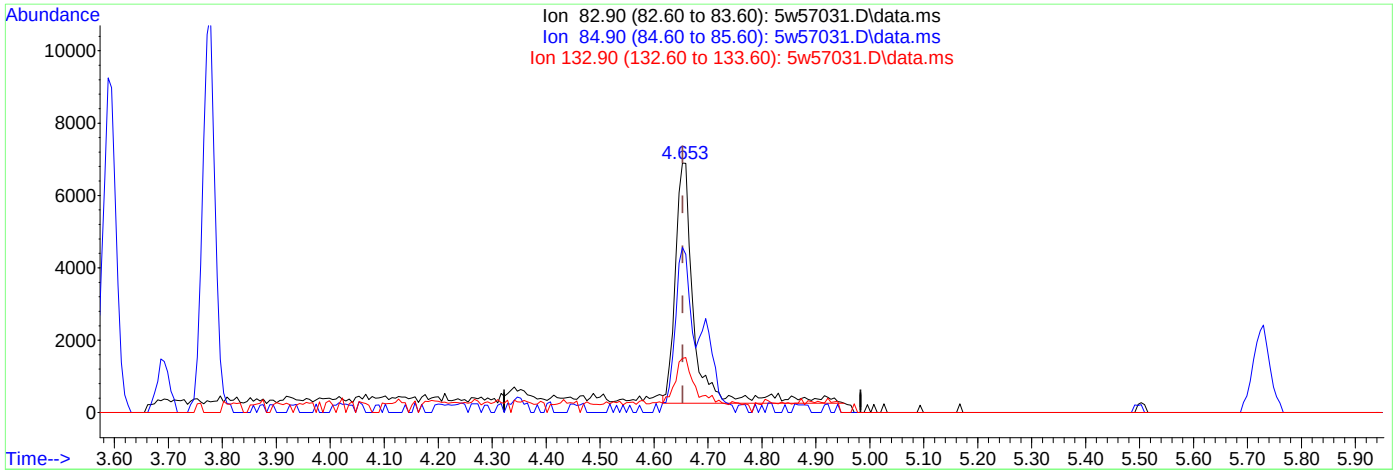
response 1646

Ion	Exp%	Act%
56.00	100	100
55.00	66.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(19) FREON 123

4.653min (-0.000) 0.11PPBV

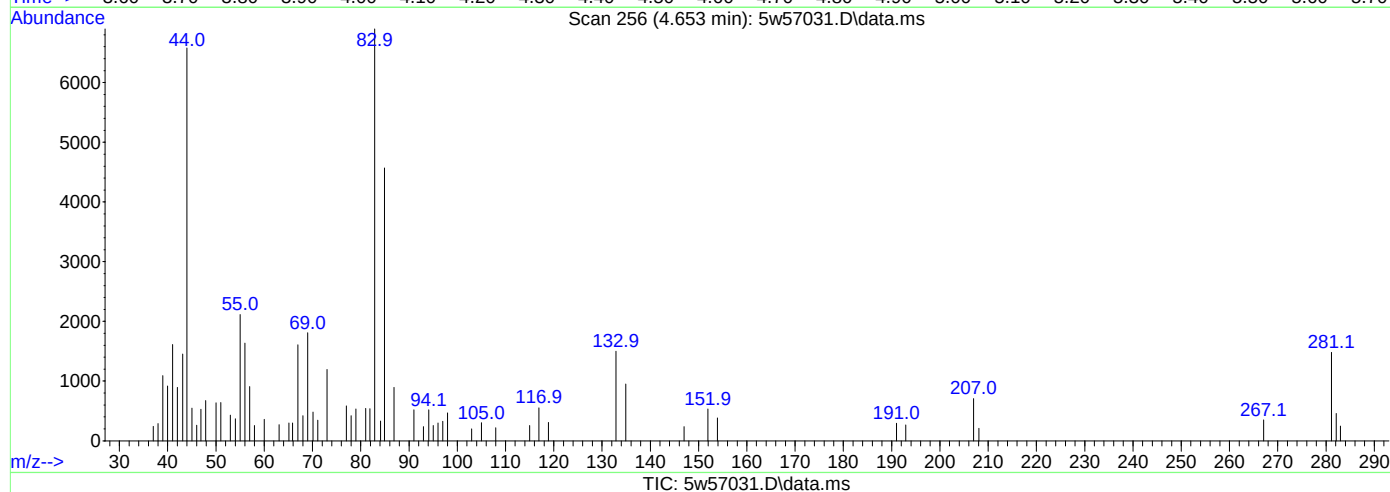
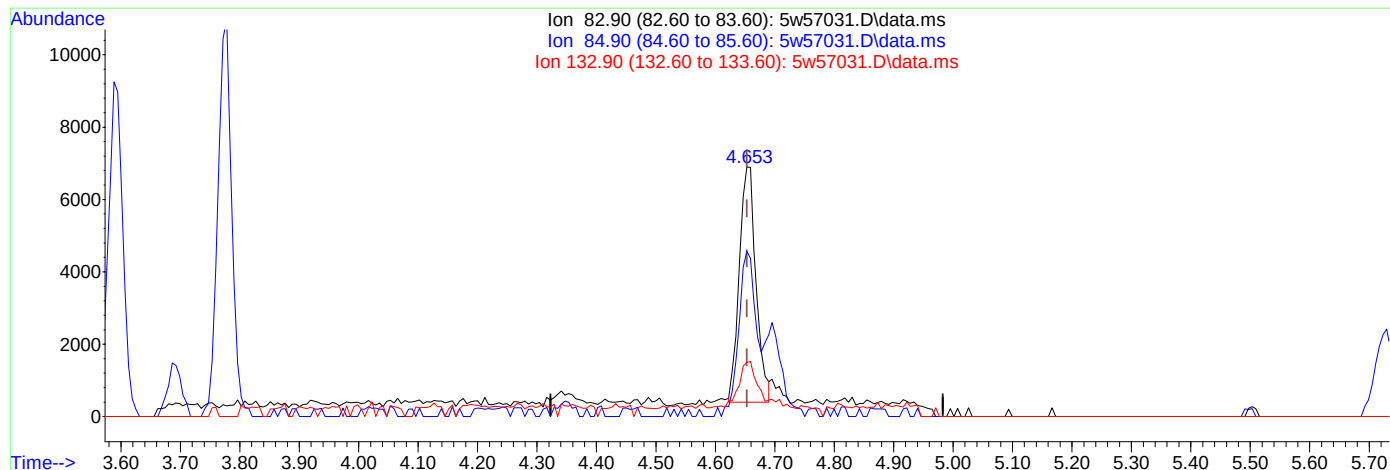
response 16296

Ion	Exp%	Act%
82.90	100	100
84.90	95.80	89.19
132.90	22.20	33.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(19) FREON 123

4.653min (-0.000) 0.09PPBV m

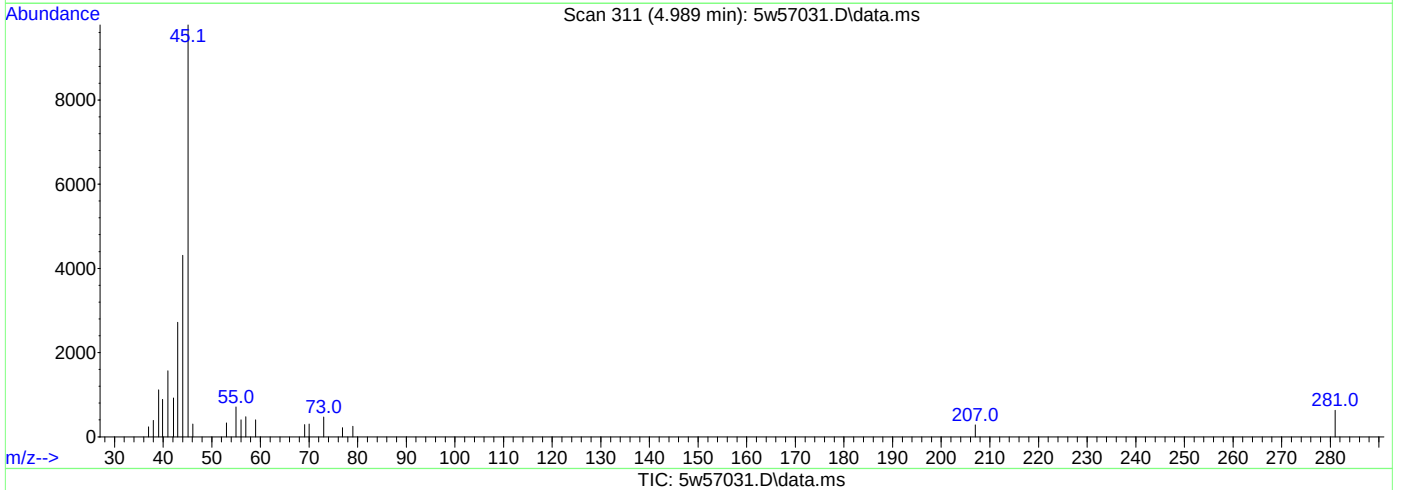
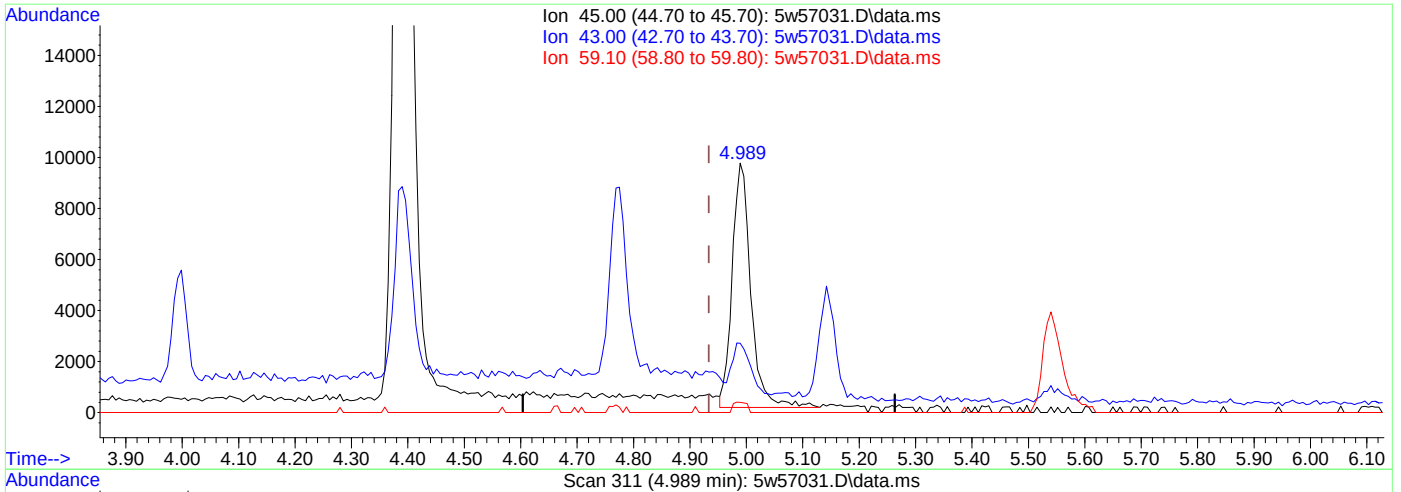
response 12827

Ion	Exp%	Act%
82.90	100	100
84.90	95.80	113.31
132.90	22.20	42.07
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(22) ISOPROPYL ALCOHOL

4.989min (+0.055) 0.19PPBV

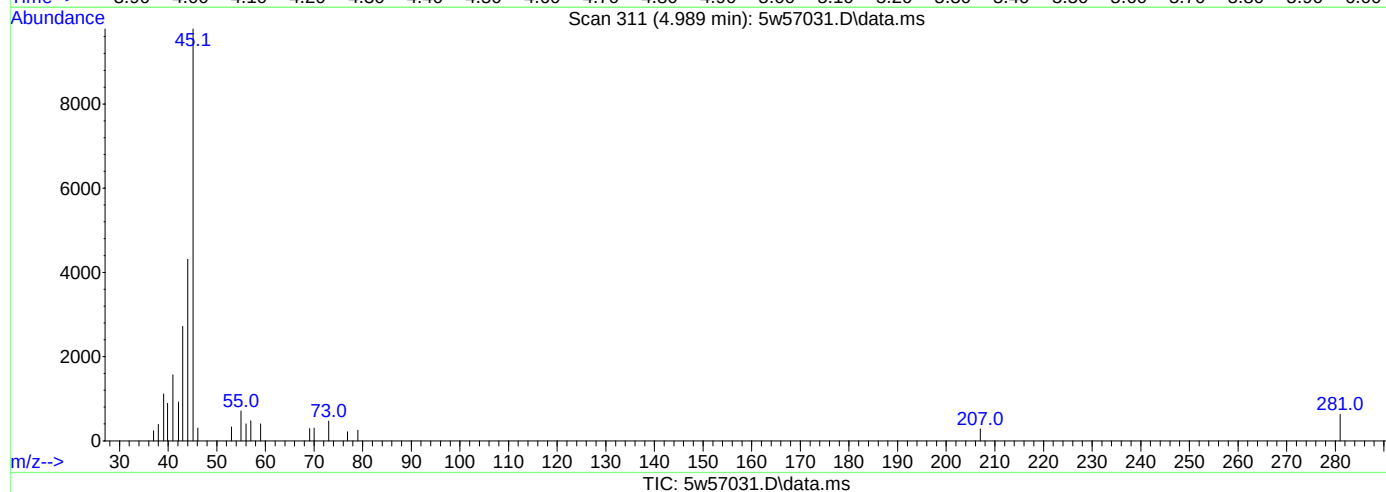
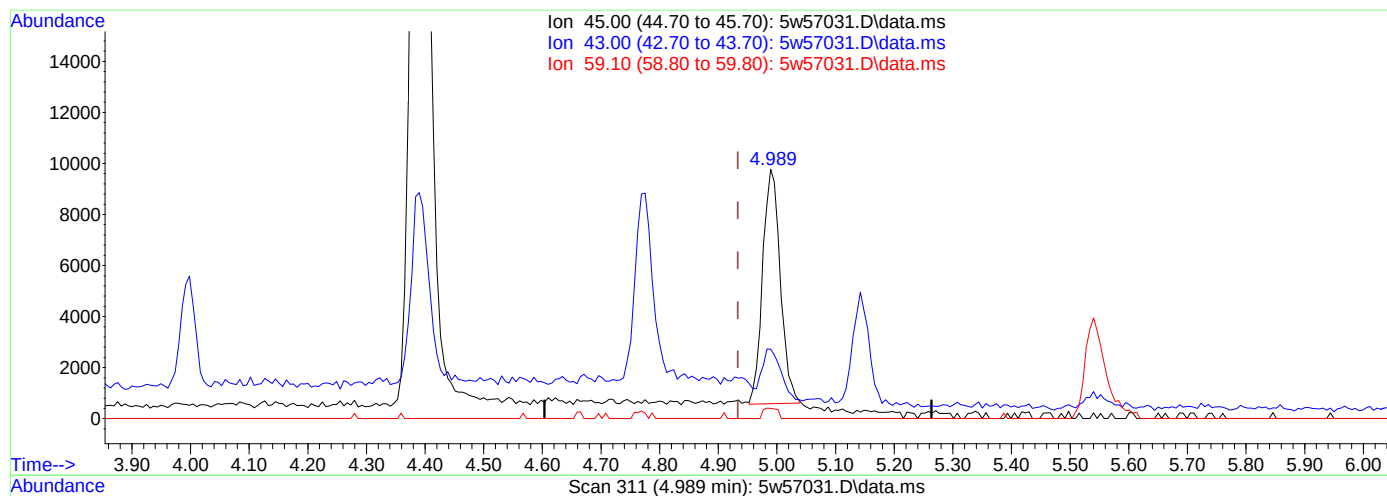
response 22062

Ion	Exp%	Act%
45.00	100	100
43.00	18.50	27.80
59.10	4.20	4.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(22) ISOPROPYL ALCOHOL

4.989min (+0.055) 0.17PPBV m

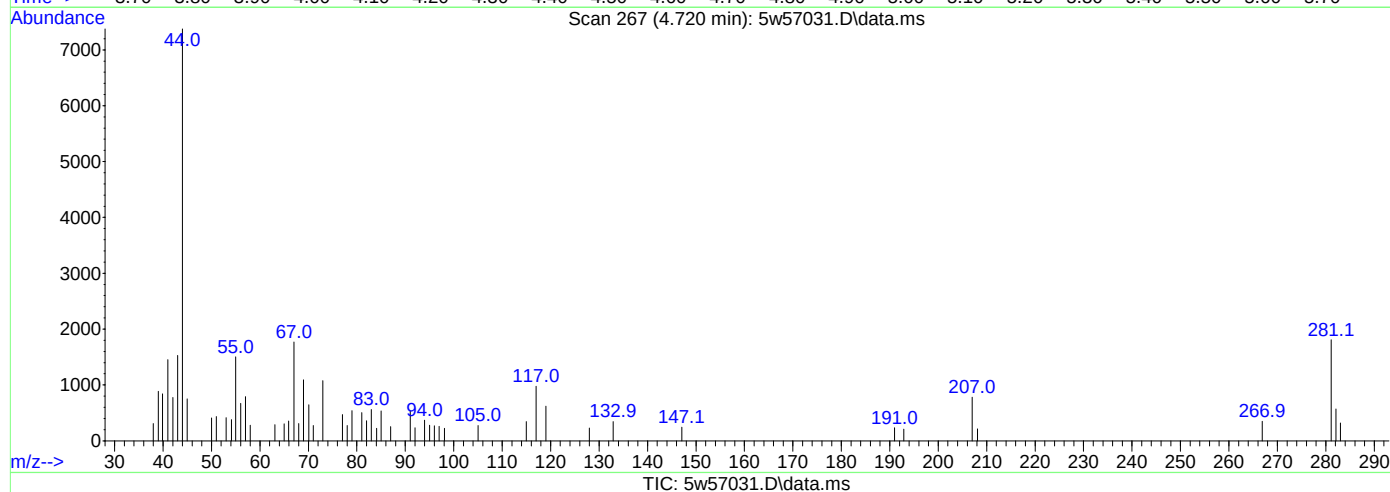
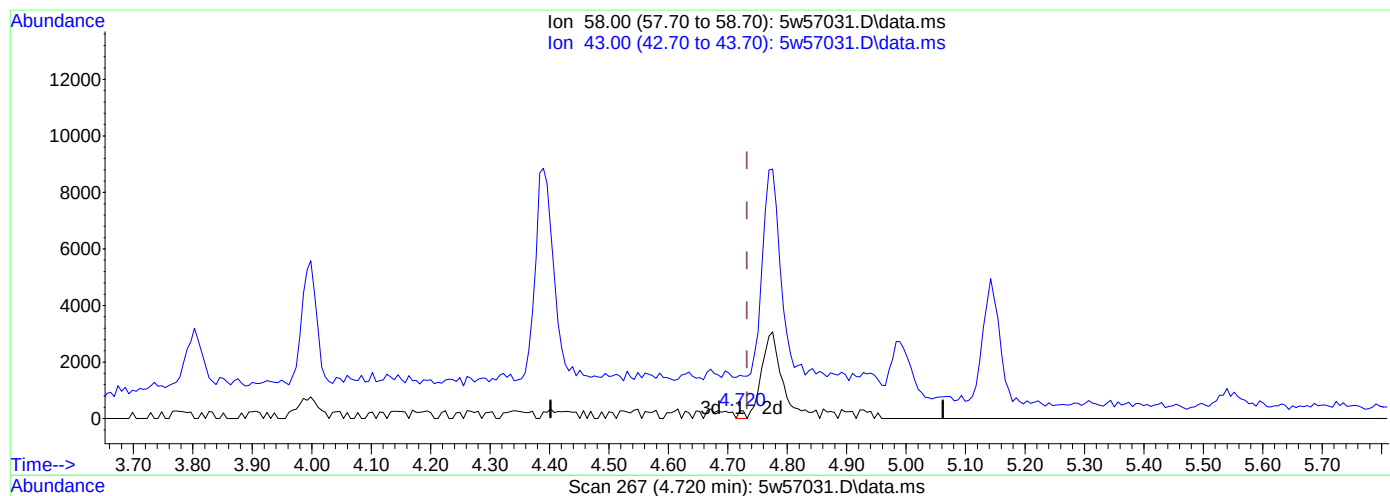
response 19248

Ion	Exp%	Act%
45.00	100	100
43.00	18.50	27.80
59.10	4.20	4.13
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(23) ACETONE

4.720min (-0.012) 0.01PPBV

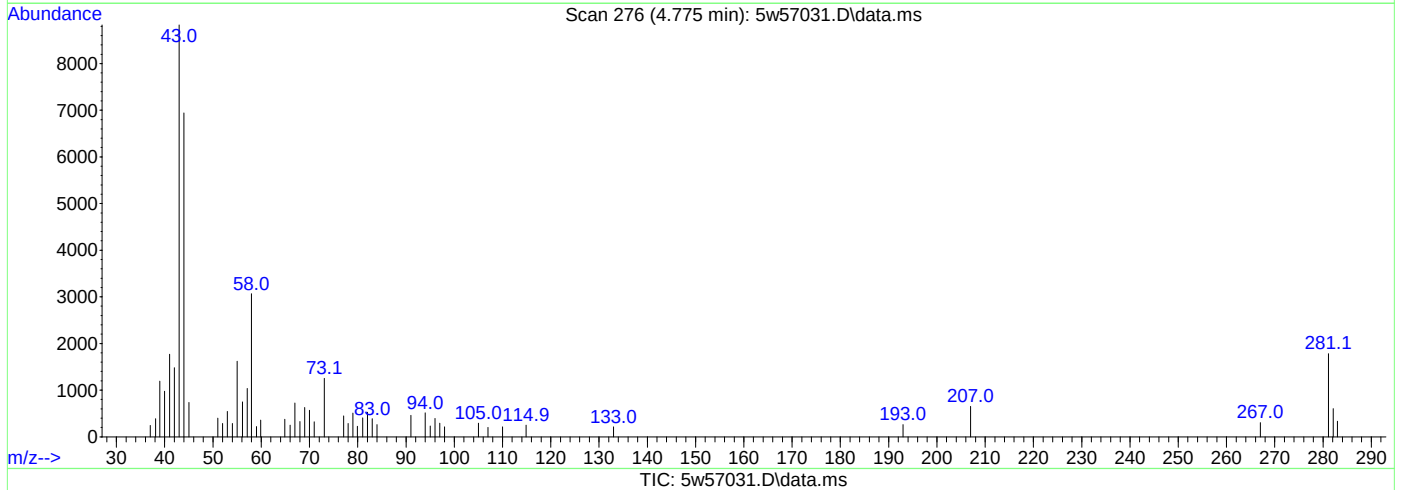
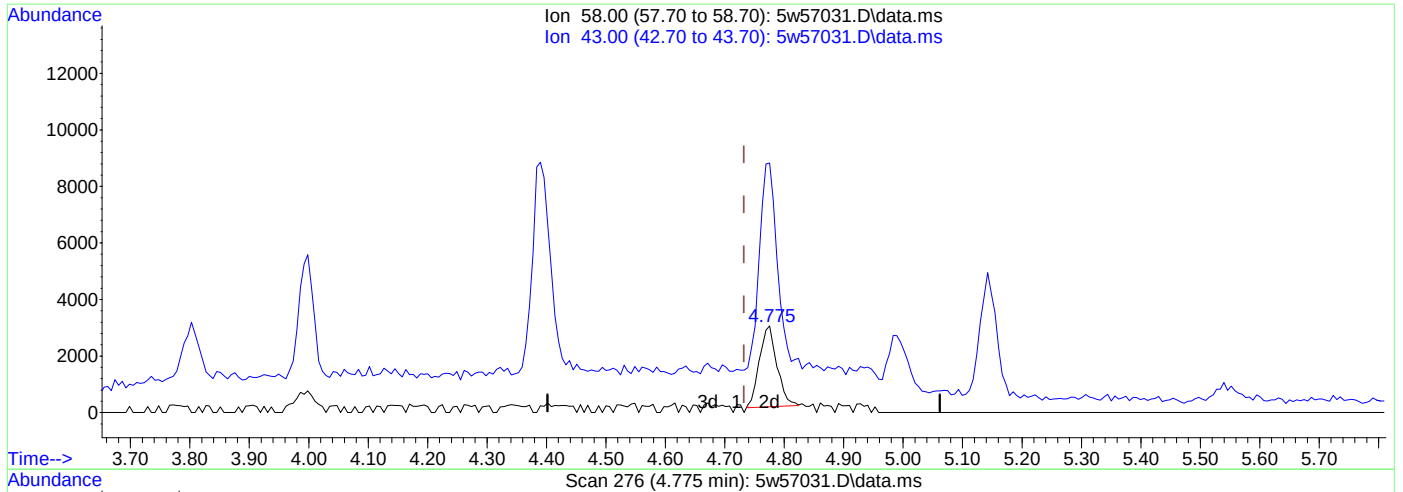
response 201

Ion	Exp%	Act%
58.00	100	100
43.00	2.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(23) ACETONE

4.775min (+0.043) 0.20PPBV m

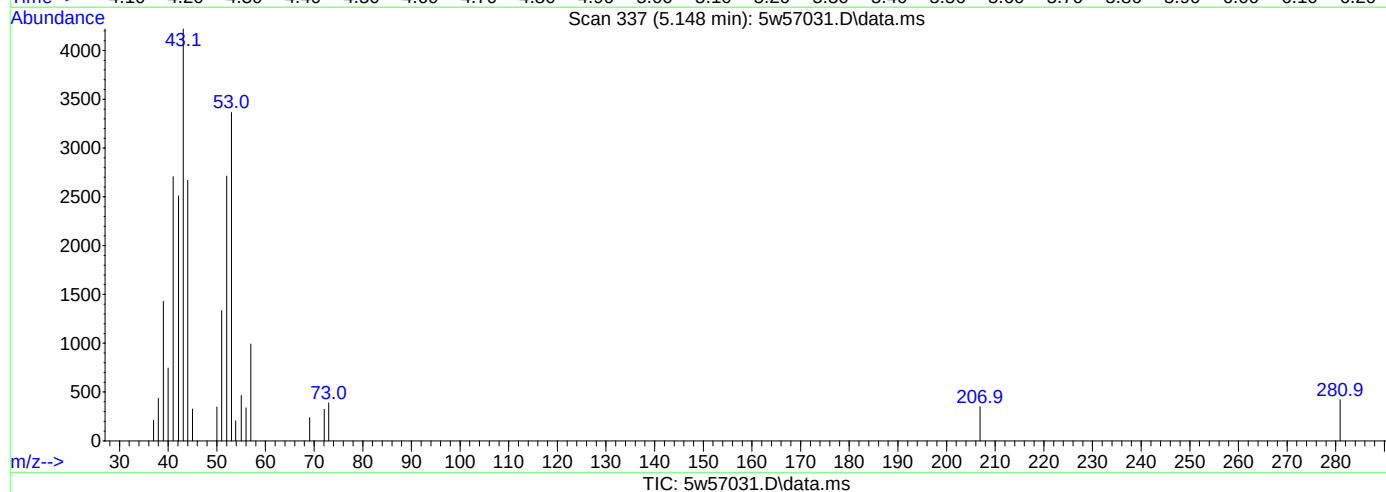
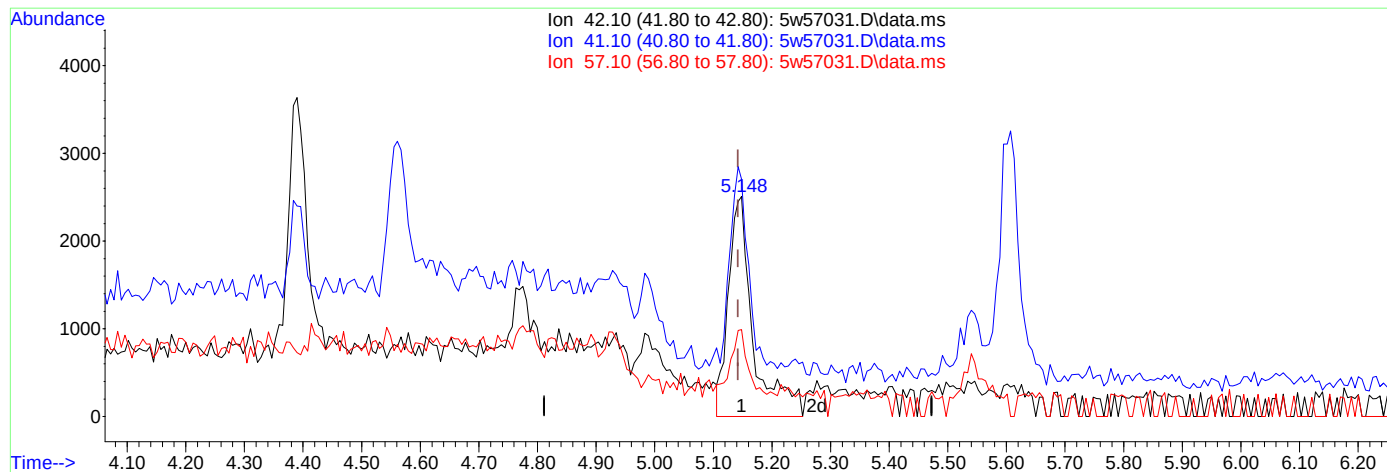
response 5856

Ion	Exp%	Act%
58.00	100	100
43.00	2.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(24) PENTANE

5.148min (+0.006) 0.15PPBV

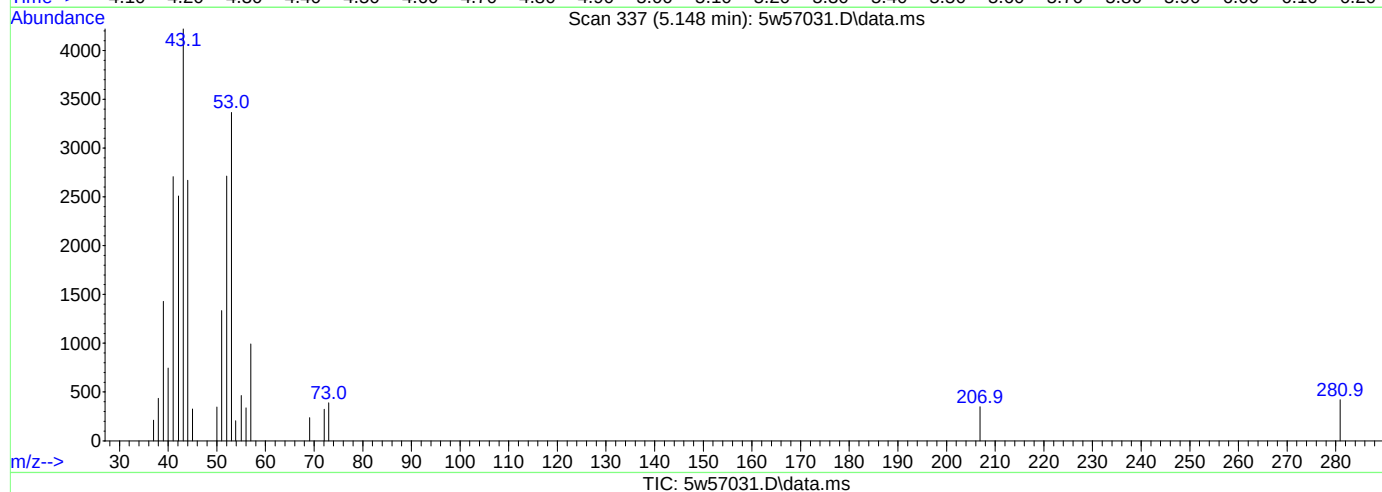
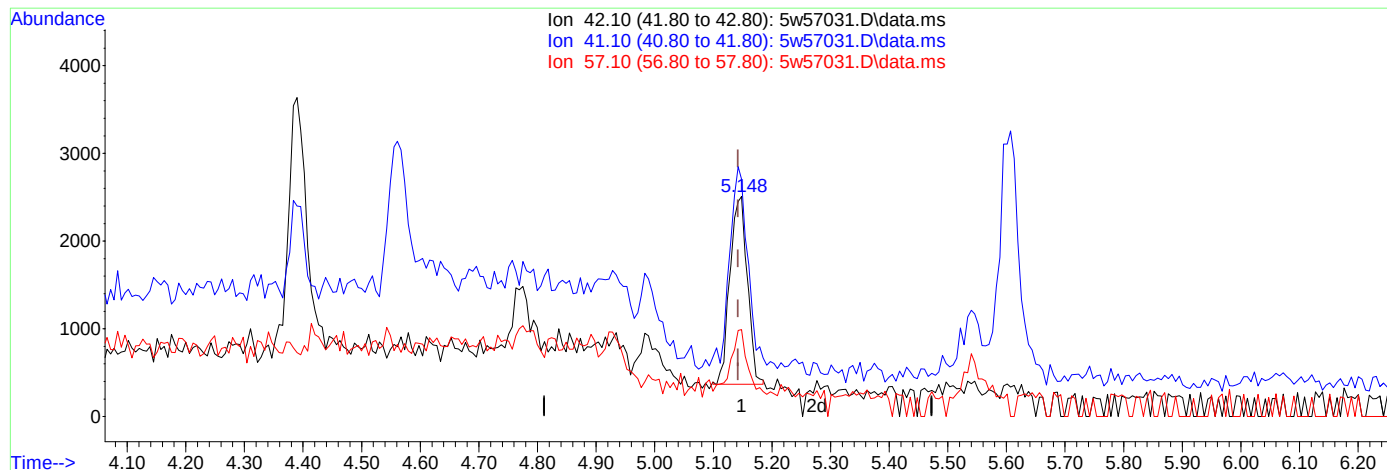
response 7331

Ion	Exp%	Act%
42.10	100	100
41.10	92.90	77.74
57.10	27.40	54.92
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(24) PENTANE

5.148min (+0.006) 0.09PPBV m

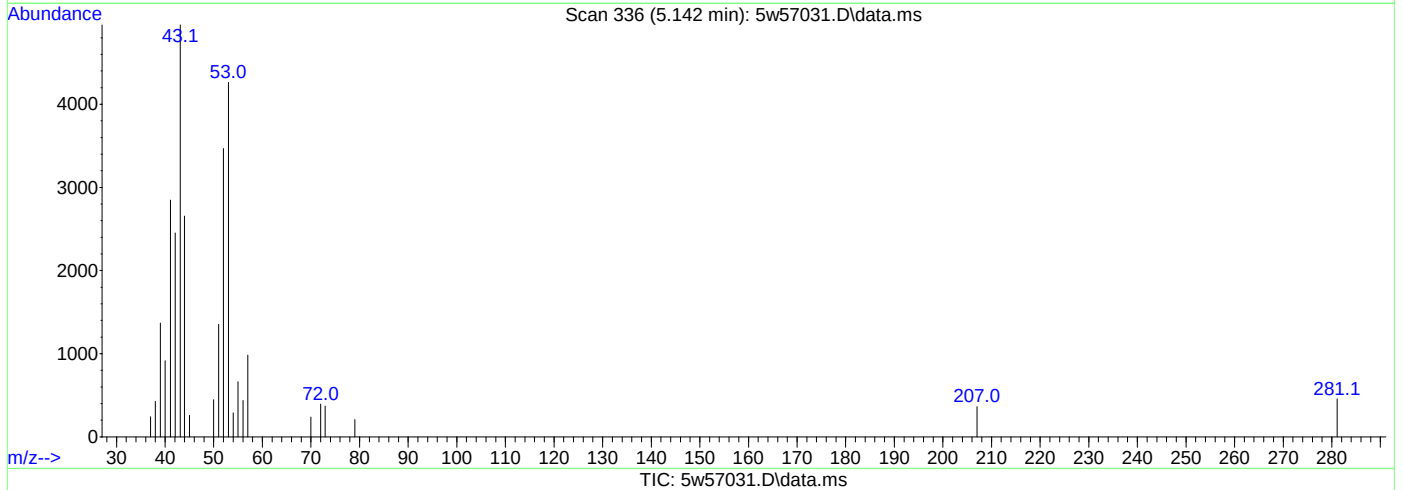
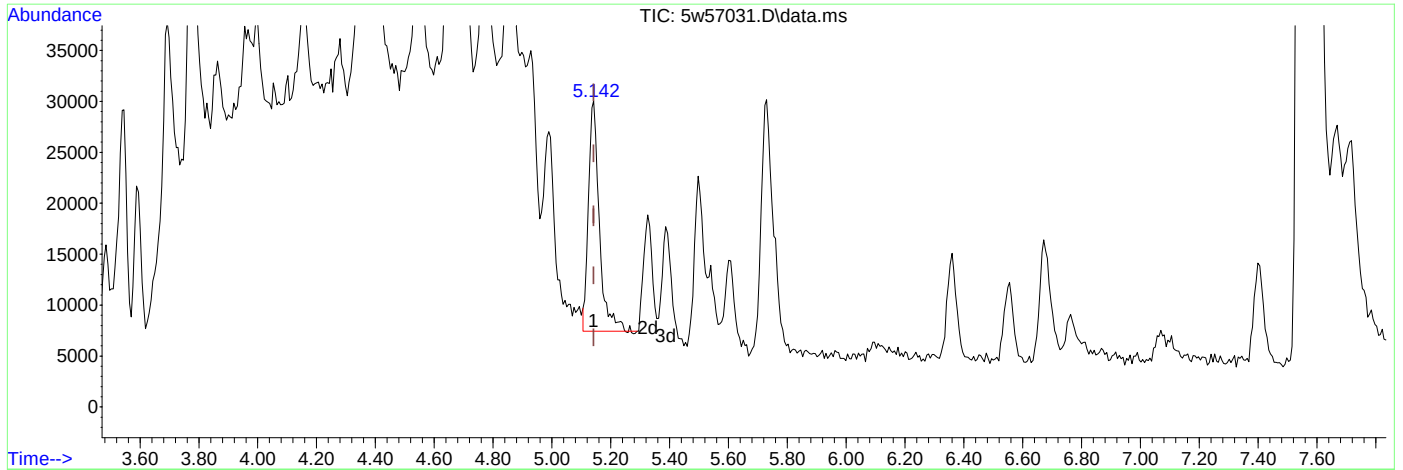
response 4417

Ion	Exp%	Act%
42.10	100	100
41.10	92.90	129.02#
57.10	27.40	91.15#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(110) TVHC as equiv Pentane

5.142min (+0.000) 0.17PPBV

response 57857

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

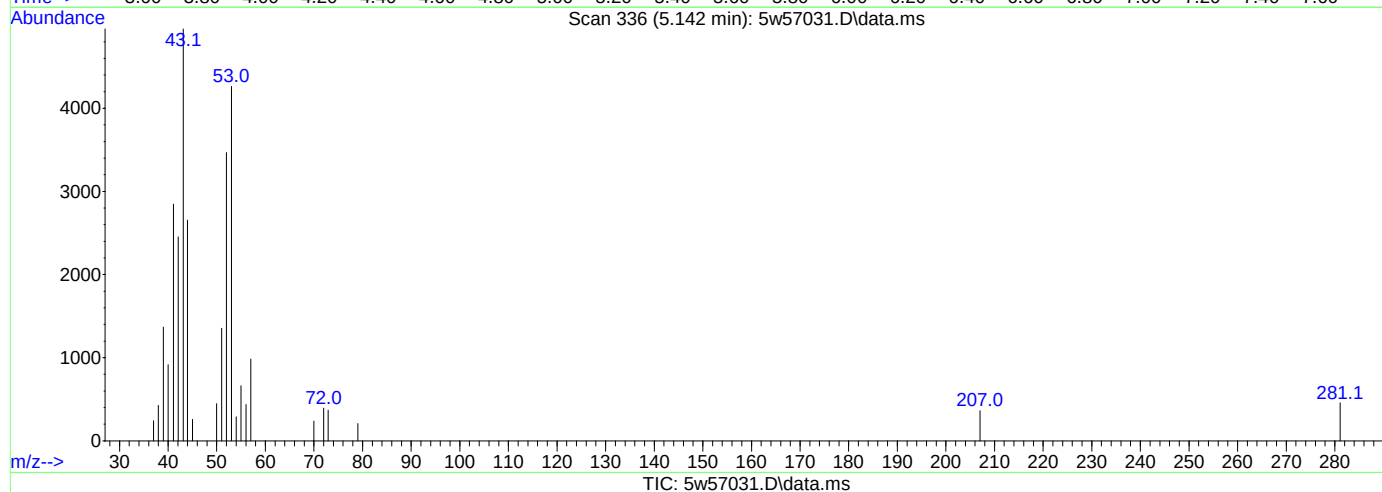
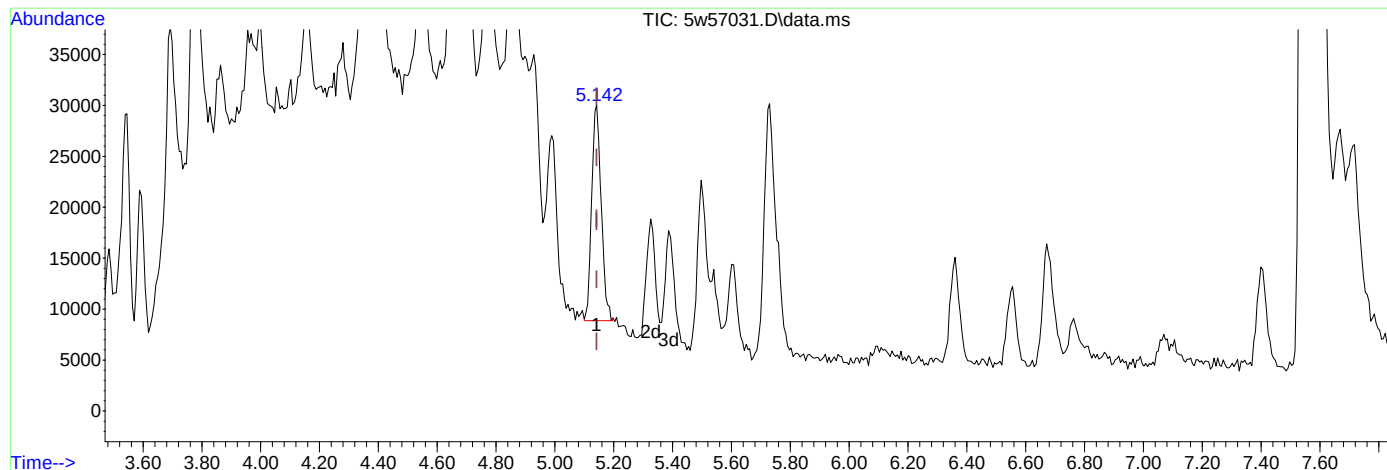
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:43:36 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(110) TVHC as equiv Pentane

5.142min (+0.000) 0.14PPBV m

response 47670

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

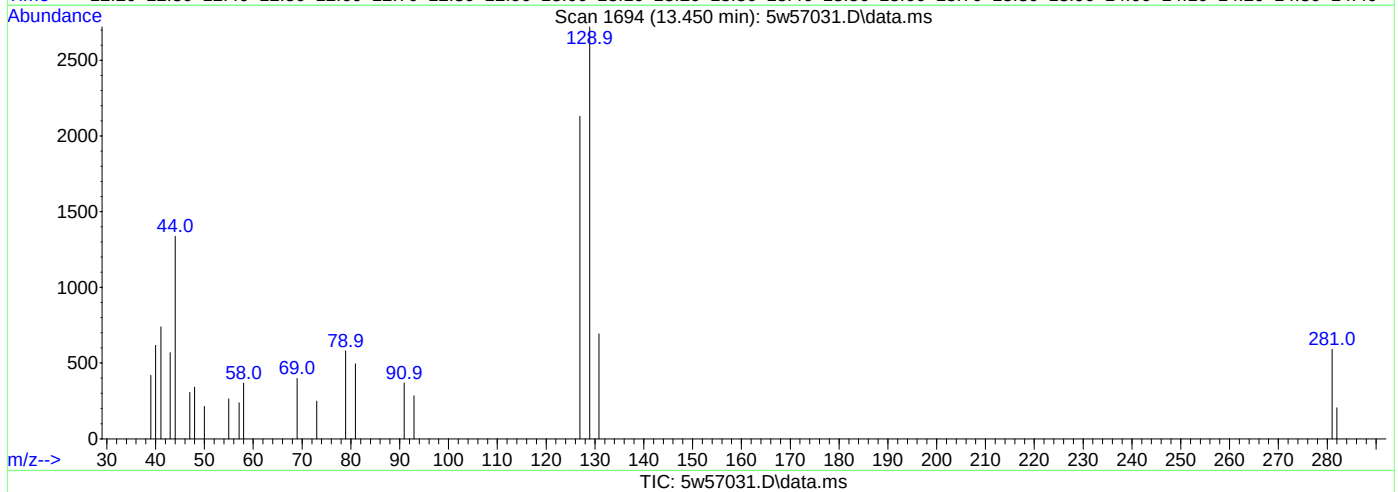
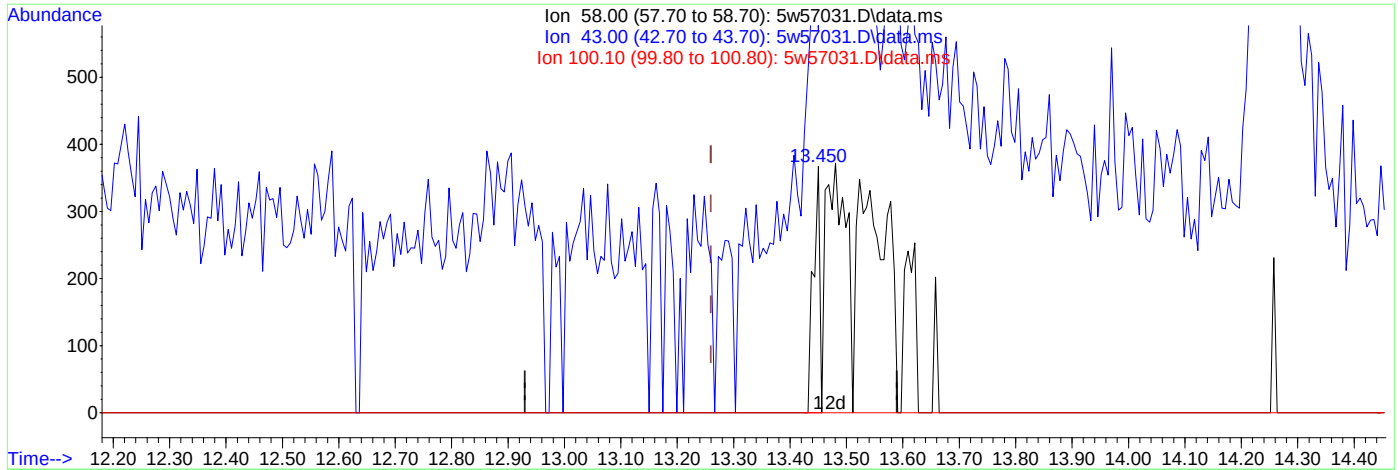
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:49:27 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(71) 2-HEXANONE

13.450min (+0.190) 0.00PPBV

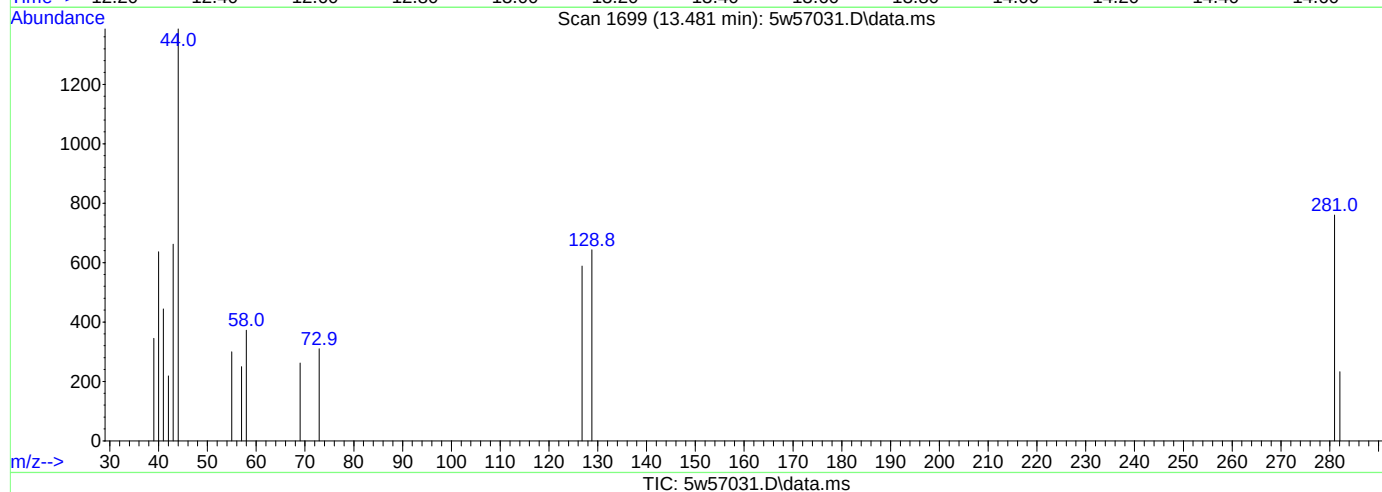
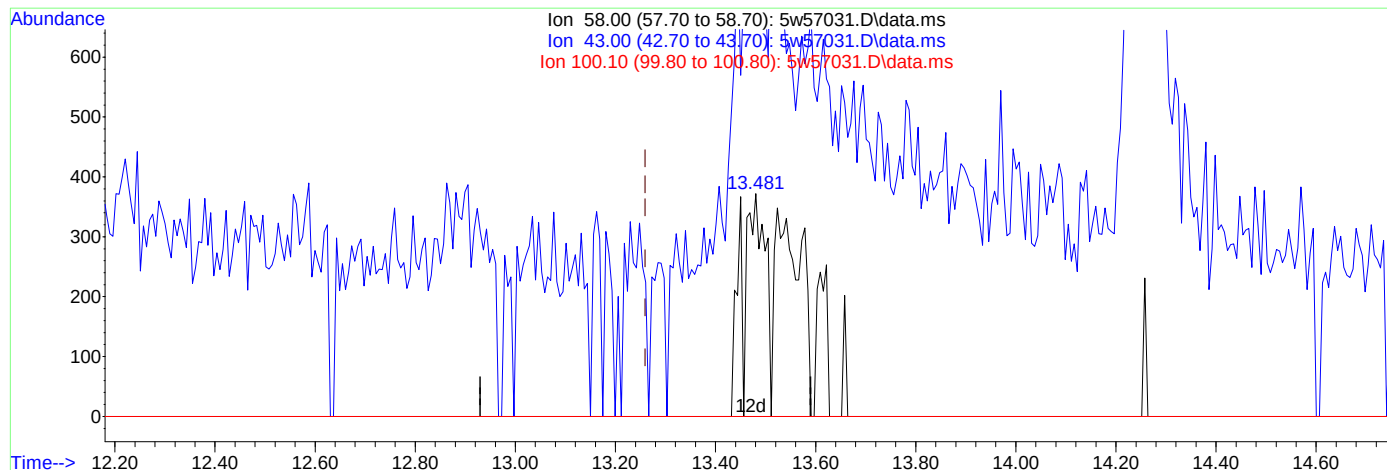
response 286

Ion	Exp%	Act%
58.00	100	100
43.00	175.60	0.00#
100.10	18.70	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:49:27 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(71) 2-HEXANONE

13.481min (+0.221) 0.05PPBV m

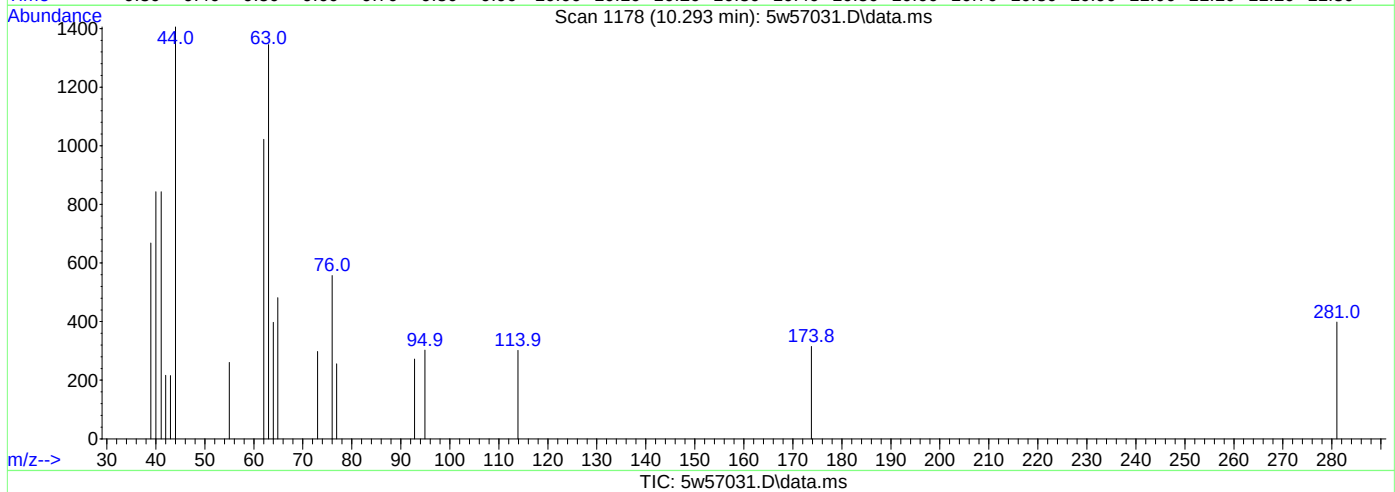
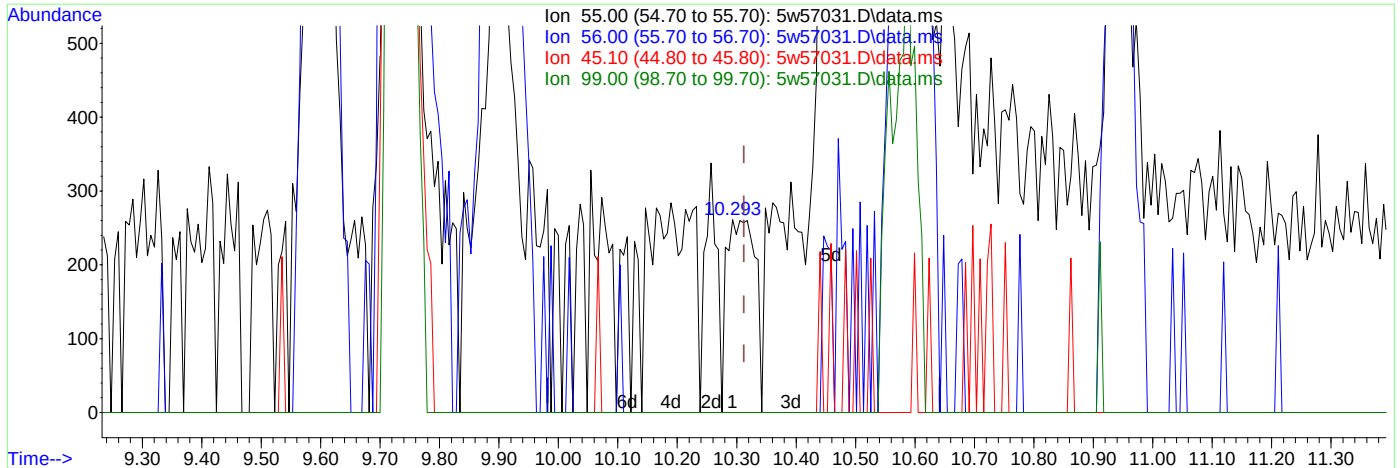
response 2862

Ion	Exp%	Act%
58.00	100	100
43.00	175.60	0.00#
100.10	18.70	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:49:27 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(58) ETHYL ACRYLATE

10.293min (-0.019) 0.01PPBV

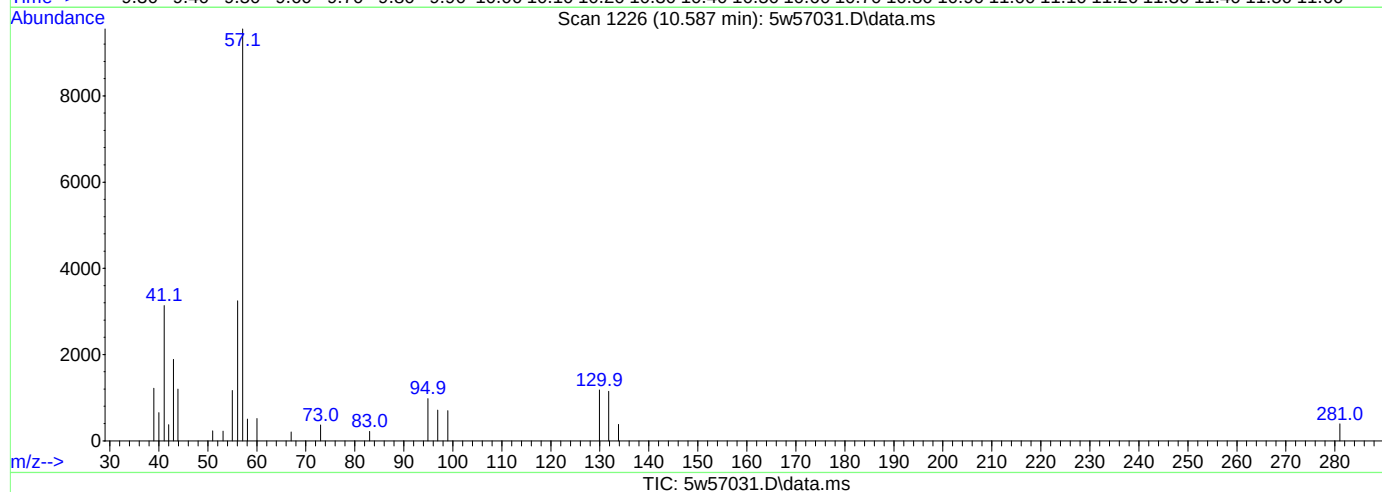
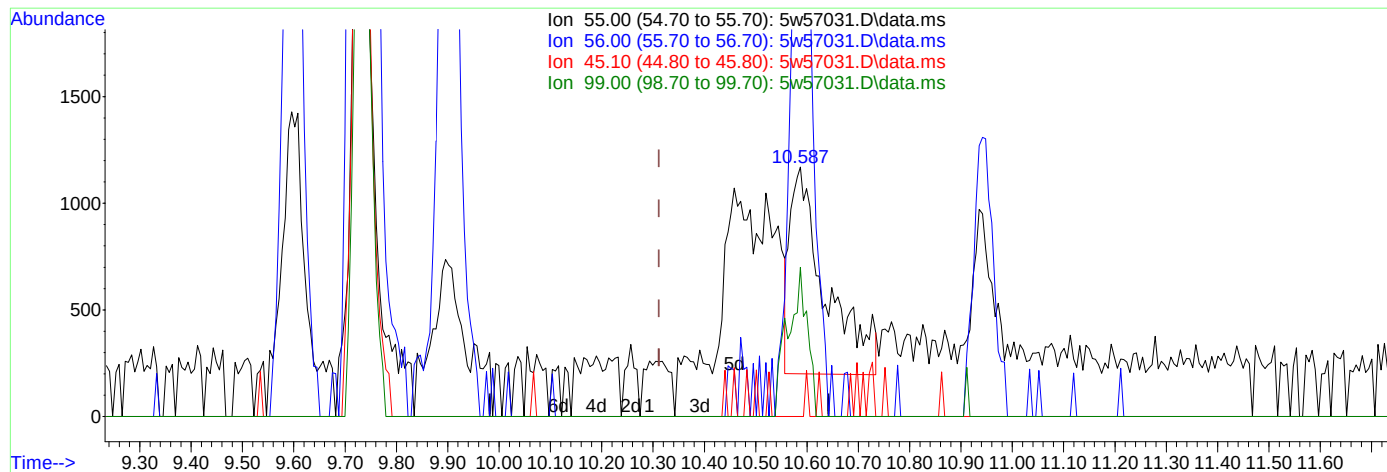
response 872

Ion	Exp%	Act%
55.00	100	100
56.00	12.30	0.00#
45.10	8.80	0.00#
99.00	7.70	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 01:49:27 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(58) ETHYL ACRYLATE

10.587min (+0.275) 0.03PPBV m

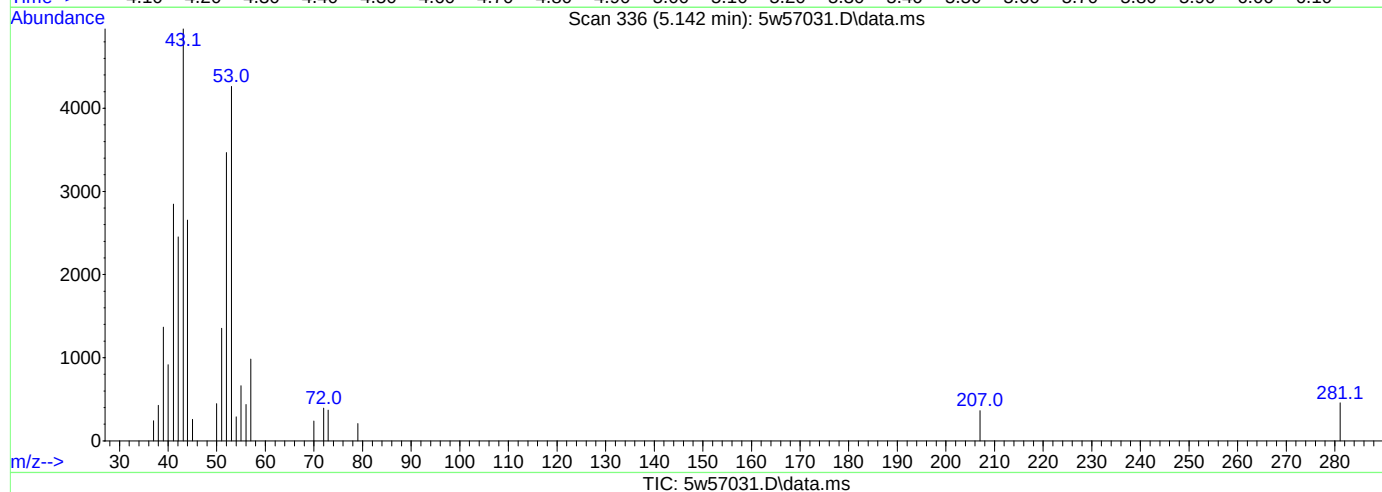
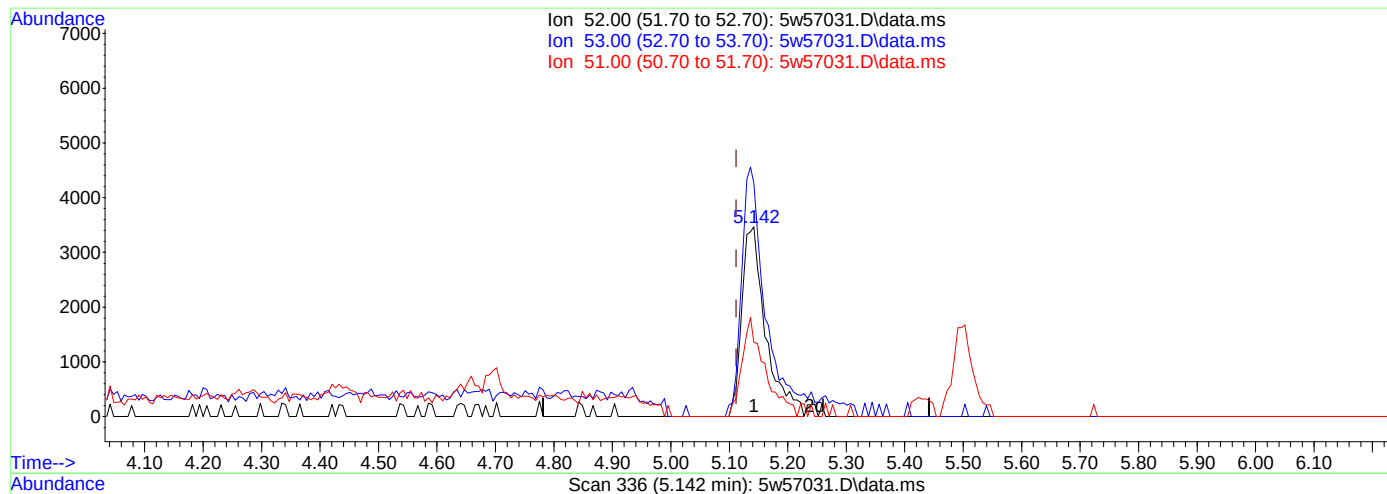
response 4683

Ion	Exp%	Act%
55.00	100	100
56.00	12.30	0.00#
45.10	8.80	0.00#
99.00	7.70	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 02:02:33 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(30) ACRYLONITRILE

5.142min (+0.030) 0.27PPBV

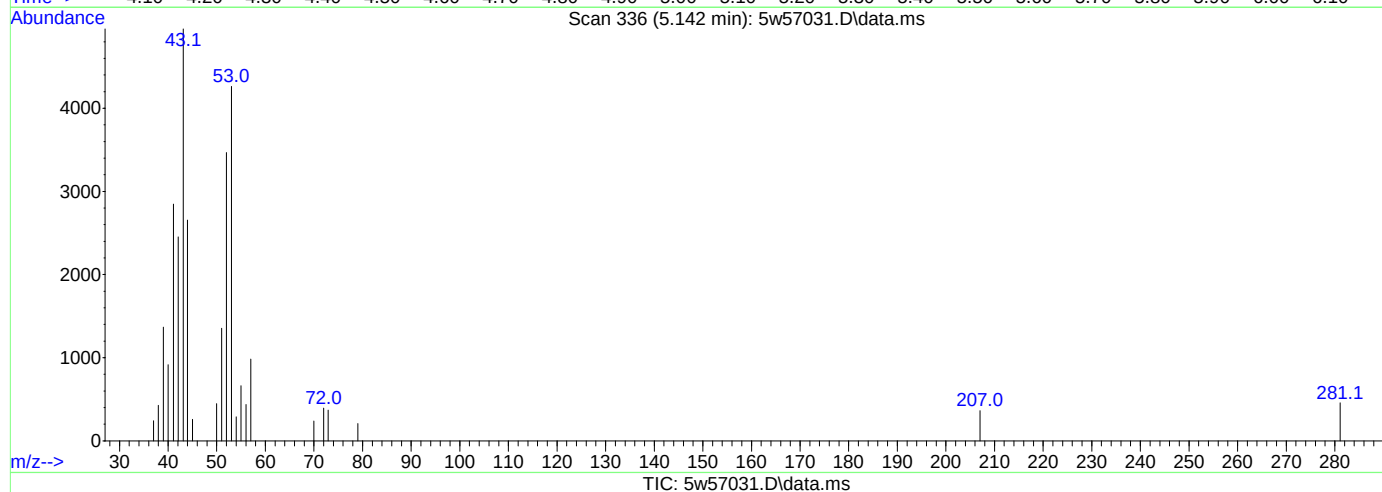
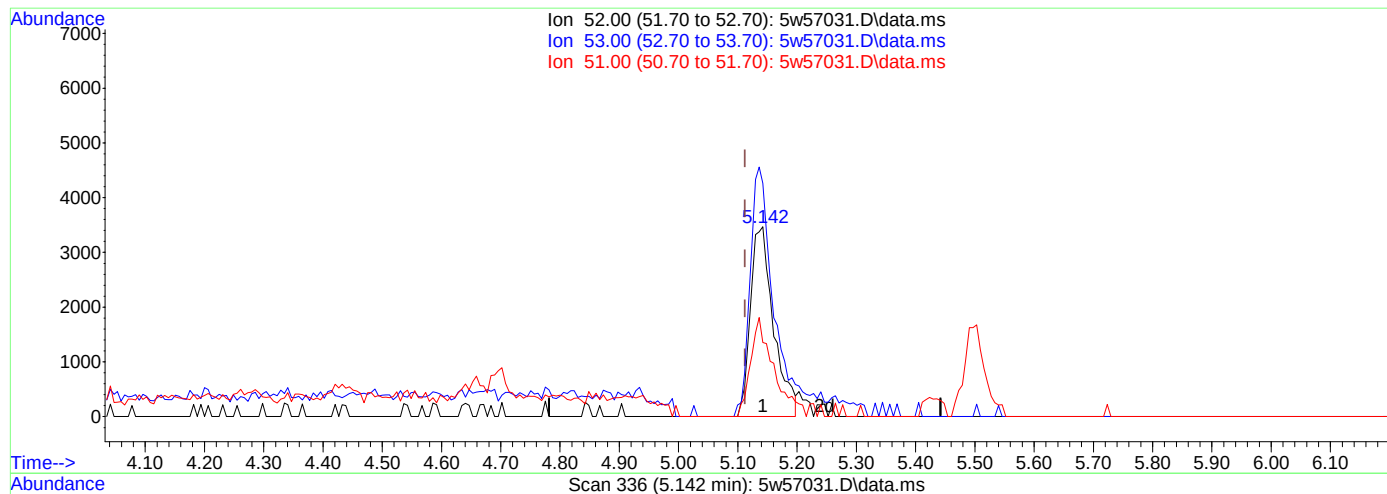
response 9871

Ion	Exp%	Act%
52.00	100	100
53.00	121.90	145.98
51.00	46.70	49.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57031.D
Acq On : 23 Feb 2025 2:53 am
Operator : benk
Sample : ic2187-0.1
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 24 02:02:33 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:41:59 2025
Response via : Initial Calibration



(30) ACRYLONITRILE

5.142min (+0.030) 0.25PPBV m

response 9374

Ion	Exp%	Act%
52.00	100	100
53.00	121.90	153.72
51.00	46.70	52.59
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57037.D
 Acq On : 23 Feb 2025 8:09 am
 Operator : benk
 Sample : ic2187-0.2
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 02:31:26 2025
 Quant Method : C:\msdchem\1\methods\M5w21487.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Mon Feb 24 01:18:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.565	128	444104	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.731	114	2072962	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	971603	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.565	128	444104	10.00	PPBV	# 0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	17.500	95	1339791	10.69	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	106.90%

Target Compounds						Qvalue
3) FREON 152A	3.478	65	7861	0.24	PPBV	94
4) CHLORODIFLUOROMETHANE	3.515	67	3816	0.26	PPBV	86
5) CHLOROTRIFLUOROETHENE	3.539	116	18107	0.24	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.588	85	34488	0.26	PPBV	98
7) PROPYLENE	3.539	41	10249	0.28	PPBV	89
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.686	65	30217m	0.26	PPBV	
9) FREON 114	3.772	85	41283	0.29	PPBV	96
10) CHLOROMETHANE	3.705	52	5073	0.30	PPBV #	76
11) VINYL CHLORIDE	3.858	62	13832	0.26	PPBV	99
12) 1,3-BUTADIENE	3.962	54	9386m	0.27	PPBV	
13) n-BUTANE	3.992	43	16008	0.28	PPBV #	91
14) BROMOMETHANE	4.151	94	14900	0.26	PPBV	97
15) CHLOROETHANE	4.280	64	6789	0.26	PPBV	91
16) DICHLOROFLUOROMETHANE	4.341	67	30300	0.27	PPBV	98
17) ACETONITRILE	4.561	41	7698m	0.23	PPBV	
18) ACROLEIN	4.647	56	4962m	0.25	PPBV	
19) FREON 123	4.653	83	39021	0.32	PPBV	88
20) FREON 123A	4.690	117	21434	0.28	PPBV	98
21) TRICHLOROFLUOROMETHANE	4.855	101	36365	0.27	PPBV	98
22) ISOPROPYL ALCOHOL	4.983	45	29873m	0.33	PPBV	
23) ACETONE	4.775	58	7418m	0.28	PPBV	
24) PENTANE	5.136	42	10357m	0.24	PPBV	
25) IODOMETHANE	5.326	142	35526	0.27	PPBV	98
26) 1,1-DICHLOROETHYLENE	5.387	96	11635	0.26	PPBV	98
27) CARBON DISULFIDE	5.754	76	31612	0.27	PPBV	91
28) ETHANOL	4.396	45	14402m	0.11	PPBV	
29) BROMOETHENE	4.537	106	14461	0.26	PPBV	99
30) ACRYLONITRILE	5.136	52	8701	0.23	PPBV	90
31) METHYLENE CHLORIDE	5.497	84	12908	0.32	PPBV	99
32) 3-CHLOROPROPENE	5.601	76	6134	0.30	PPBV #	64
33) FREON 113	5.723	151	21299	0.26	PPBV	99
34) TRANS-1,2-DICHLOROETHYLENE	6.354	96	11494	0.24	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.528	59	21101	0.24	PPBV	98
36) METHYL TERTIARY BUTYL ALCOHOL	6.666	73	33249	0.26	PPBV	95
37) TETRAHYDROFURAN	8.232	72	4198	0.25	PPBV #	67
38) HEXANE	7.602	57	18406	0.25	PPBV #	73
39) VINYL ACETATE	6.745	86	1648	0.22	PPBV #	53
40) 1,1-DICHLOROETHANE	6.549	63	21527	0.26	PPBV	99
41) METHYL ETHYL KETONE	7.051	72	3699	0.21	PPBV #	84
42) cis-1,2-DICHLOROETHYLENE	7.400	96	12544	0.25	PPBV	98
43) DIISOPROPYL ETHER	7.663	59	4791	0.26	PPBV #	73
44) ETHYL ACETATE	7.724	61	3046	0.23	PPBV #	57
45) METHYL ACRYLATE	7.706	55	15265m	0.28	PPBV	
46) CHLOROFORM	7.706	83	25883	0.26	PPBV	92
47) 2,4-DIMETHYLPENTANE	8.562	57	20686	0.25	PPBV	98
48) 1,1,1-TRICHLOROETHANE	8.776	97	27024	0.26	PPBV	98
49) CARBON TETRACHLORIDE	9.461	117	29506	0.26	PPBV	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 02:31:26 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	8.513	62	17229	0.26	PPBV	99
52)	BENZENE	9.302	78	34904	0.25	PPBV	100
53)	CYCLOHEXANE	9.596	84	14554	0.26	PPBV	99
54)	2,3-DIMETHYLPENTANE	9.902	71	6995	0.25	PPBV	92
55)	TRICHLOROETHYLENE	10.563	95	16925	0.24	PPBV	99
56)	1,2-DICHLOROPROPANE	10.269	63	13901	0.24	PPBV	94
57)	DIBROMOMETHANE	10.244	174	18790	0.24	PPBV	99
58)	ETHYL ACRYLATE	10.416	55	20337	0.29	PPBV #	93
59)	BROMODICHLOROMETHANE	10.508	83	28385	0.24	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	10.587	57	54138	0.25	PPBV	96
61)	1,4-DIOXANE	10.685	88	7969	0.25	PPBV #	1
62)	HEPTANE	10.942	43	18088m	0.22	PPBV	
63)	METHYL METHACRYLATE	10.905	69	11234	0.26	PPBV #	8
64)	METHYL ISOBUTYL KETONE	11.786	58	8784	0.22	PPBV #	81
65)	cis-1,3-DICHLOROPROPENE	11.652	75	21060	0.23	PPBV	91
66)	TOLUENE	12.875	92	24243	0.24	PPBV	95
67)	1,3-DICHLOROPROPANE	12.930	76	19462	0.24	PPBV #	98
68)	trans-1,3-DICHLOROPROPENE	12.337	75	17482	0.21	PPBV	87
69)	1,1,2-TRICHLOROETHANE	12.532	83	13577	0.24	PPBV	98
71)	2-HEXANONE	13.371	58	8884	0.20	PPBV	81
72)	ETHYL METHACRYLATE	13.346	69	16426	0.23	PPBV	83
73)	TETRACHLOROETHYLENE	14.380	164	21027	0.28	PPBV	99
74)	DIBROMOCHLOROMETHANE	13.426	129	29697	0.25	PPBV	98
75)	1,2-DIBROMOETHANE	13.744	107	25922	0.27	PPBV	100
76)	OCTANE	14.245	43	26417	0.27	PPBV	98
77)	1,1,1,2-TETRACHLOROETHANE	15.298	131	20895	0.26	PPBV	94
78)	CHLOROBENZENE	15.316	112	35852	0.27	PPBV	100
79)	ETHYLBENZENE	15.885	91	54789	0.27	PPBV	98
80)	m,p-XYLENE	16.154	106	42072	0.52	PPBV	100
81)	o-XYLENE	16.821	106	20799	0.27	PPBV	94
82)	STYRENE	16.686	104	31582	0.26	PPBV	92
83)	NONANE	17.225	43	29528	0.27	PPBV	95
84)	BROMOFORM	16.209	173	25202	0.21	PPBV	96
86)	1,1,2,2-TETRACHLOROETHANE	16.827	83	35039	0.27	PPBV	99
87)	1,2,3-TRICHLOROPROPANE	17.023	75	25336	0.27	PPBV	97
88)	ISOPROPYLBENZENE	17.733	105	60835	0.26	PPBV	98
89)	BROMOBENZENE	17.824	77	29885	0.25	PPBV	96
90)	2-CHLOROTOLUENE	18.473	126	16156	0.25	PPBV	95
91)	n-PROPYLBENZENE	18.558	120	16527	0.26	PPBV	95
92)	4-ETHYLTOLUENE	18.803	105	59760	0.27	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	18.938	105	53284	0.27	PPBV	98
94)	ALPHA-METHYLSTYRENE	19.195	118	24182	0.24	PPBV	99
95)	tert-BUTYLBENZENE	19.537	134	11622	0.27	PPBV	95
96)	1,2,4-TRIMETHYLBENZENE	19.556	105	52169	0.27	PPBV	99
97)	m-DICHLOROBENZENE	19.751	146	38788	0.25	PPBV	99
98)	BENZYL CHLORIDE	19.751	91	40283	0.24	PPBV	96
99)	p-DICHLOROBENZENE	19.855	146	43235	0.27	PPBV	98
100)	sec-BUTYLBENZENE	19.947	134	14873	0.28	PPBV #	87
101)	1,2,3-TRIMETHYLBENZENE	20.167	105	54224	0.27	PPBV #	96
102)	p-ISOPROPYLTOLUENE	20.198	134	16066	0.26	PPBV #	84
103)	o-DICHLOROBENZENE	20.339	146	40122	0.27	PPBV	98
104)	n-BUTYLBENZENE	20.791	134	15364	0.25	PPBV #	82
105)	HEXACHLOROETHANE	21.250	117	25488	0.27	PPBV	100
106)	HEXACHLOROBUTADIENE	23.196	225	39569	0.29	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	23.067	180	32189	0.24	PPBV	97
108)	NAPHTHALENE	22.755	128	74341	0.25	PPBV	95
110)	VHCH as equiv Pentane	5.136	TIC	70824m	0.22	PPBV	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 02:31:26 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration

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

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

(QT Reviewed)

Quant Time: Feb 24 02:31:26 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V5W2187-IC2187

Method: TO-15

Lab FileID: 5W57037.D

Analyst approved: 02/24/25 10:48 Benjamin Kim

Injection Time: 02/23/25 08:09

Supervisor approved: 02/24/25 16:39 Kanya Veerawat

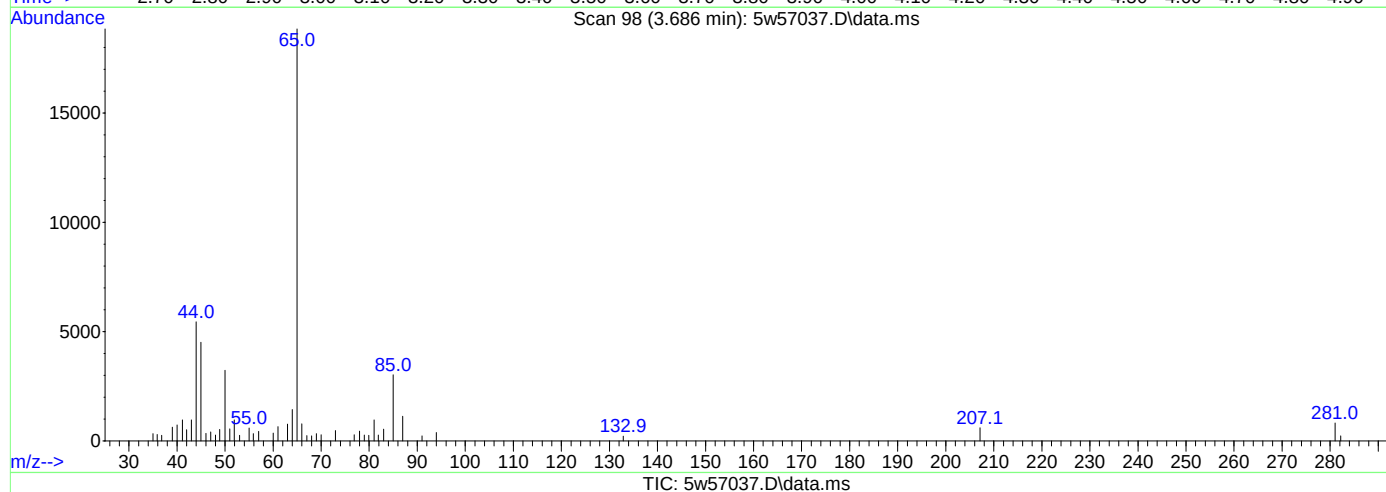
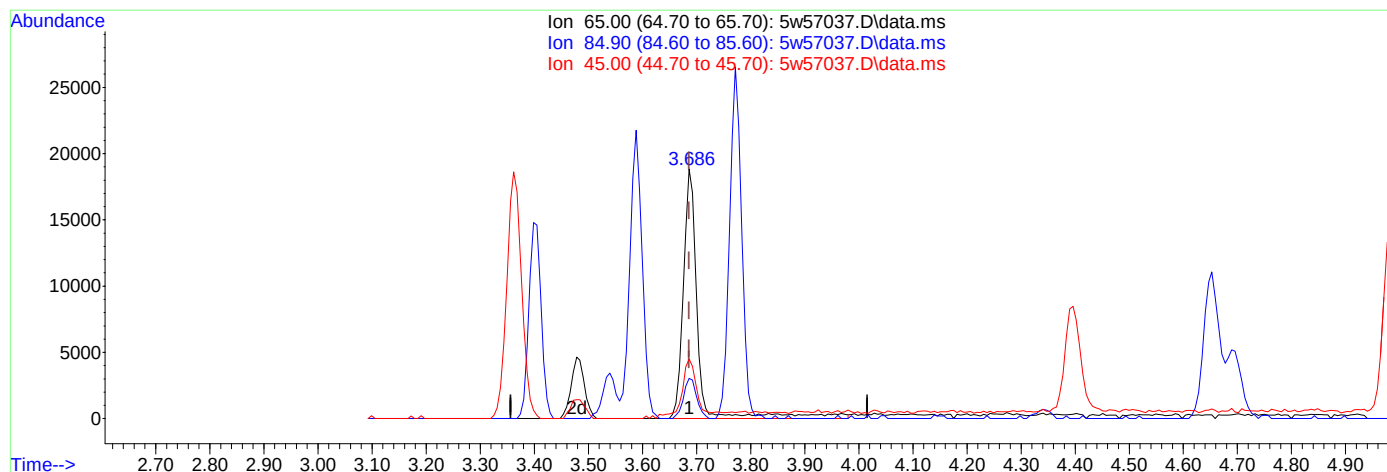
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 142B	75-68-3		3.69	Poor instrument integration
1,3-Butadiene	106-99-0		3.96	Poor instrument integration
Ethanol	64-17-5		4.40	Poor instrument integration
Acetonitrile	75-05-8		4.56	Poor instrument integration
Acrolein	107-02-8		4.65	Poor instrument integration
Acetone (2-Propanone)	67-64-1		4.78	Poor instrument integration
Isopropyl Alcohol	67-63-0		4.98	Poor instrument integration
Pentane	109-66-0		5.14	Poor instrument integration
TVHC As Equiv Pentane			5.14	Poor instrument integration
Methyl Acrylate	96-33-3		7.71	Poor instrument integration
Heptane	142-82-5		10.94	Poor instrument integration

7.7.14.1
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.686min (+0.000) 0.30PPBV

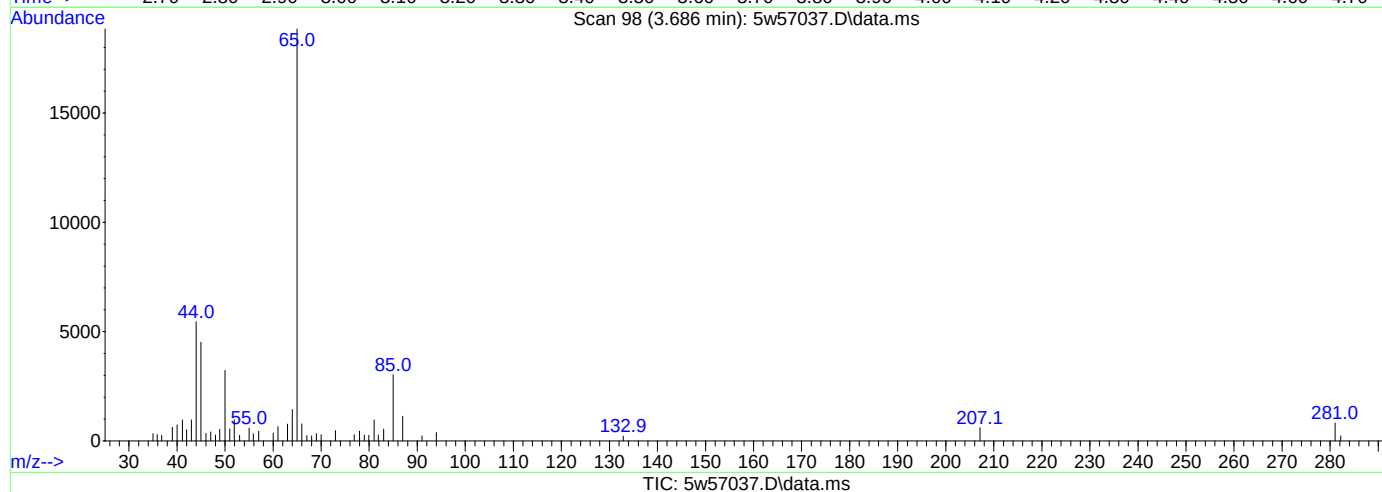
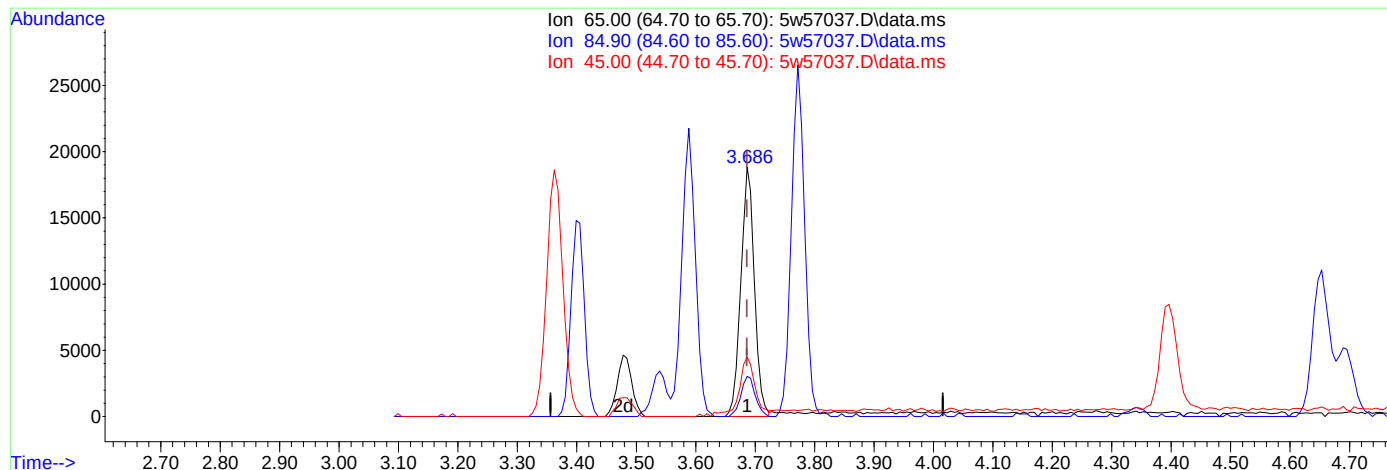
response 34754

Ion	Exp%	Act%
65.00	100	100
84.90	15.90	14.87
45.00	20.80	47.43#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(8) 1-CHLORO-1,1-DIFLUOROETHANE

3.686min (+0.000) 0.26PPBV m

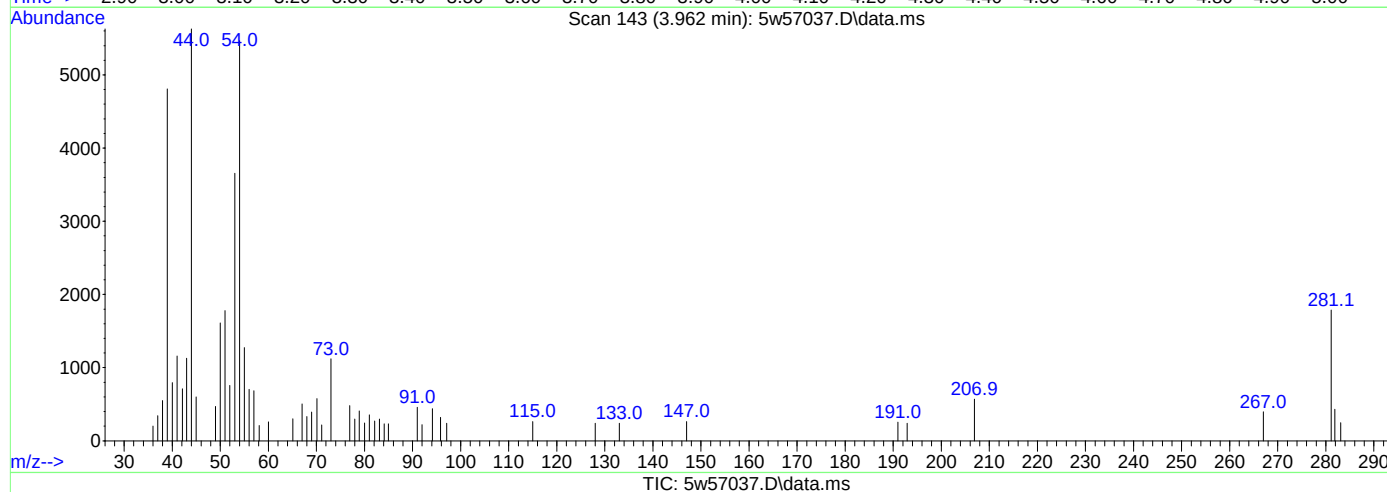
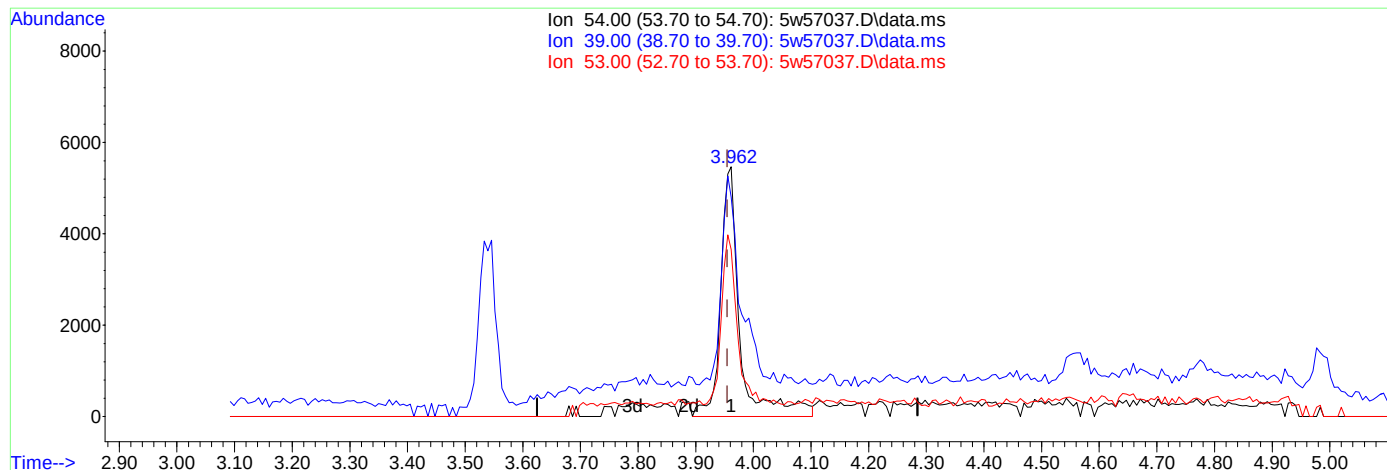
response 30217

Ion	Exp%	Act%
65.00	100	100
84.90	15.90	17.10
45.00	20.80	54.55#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(12) 1,3-BUTADIENE

3.962min (+0.007) 0.37PPBV

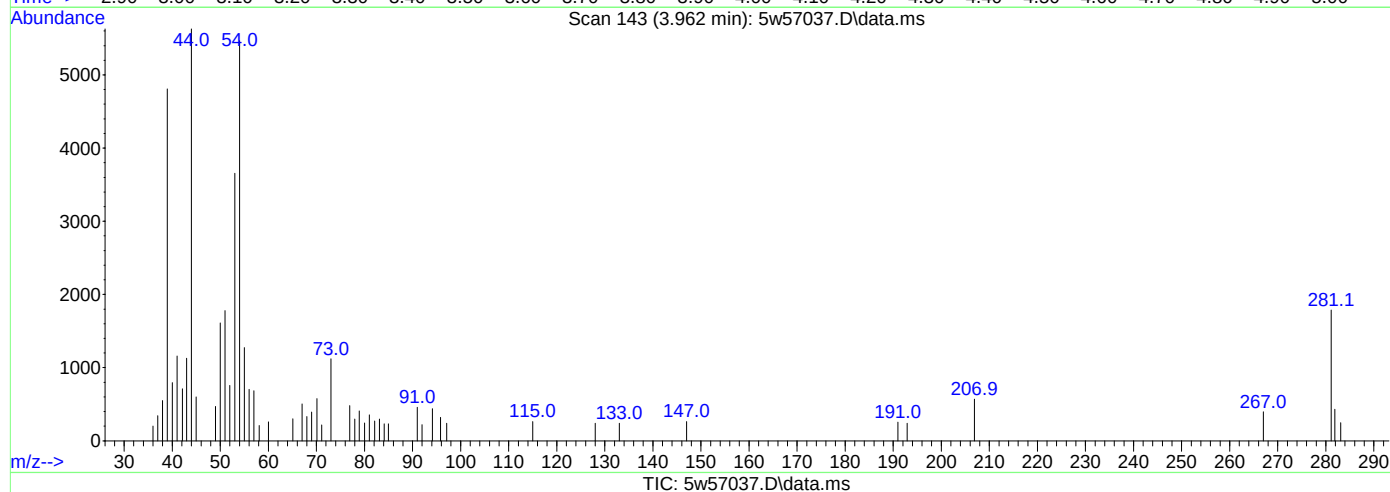
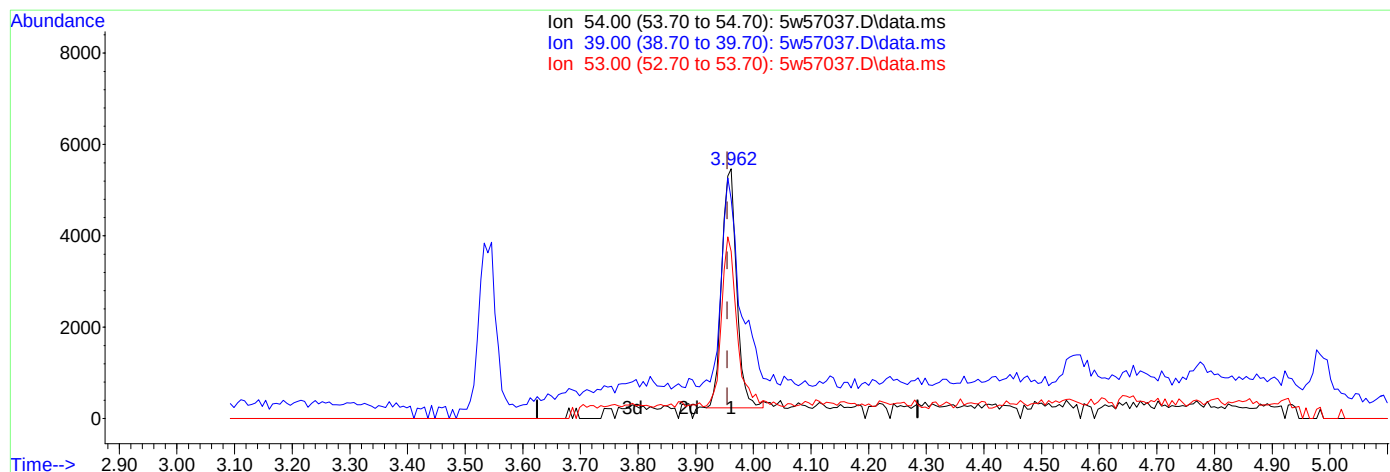
response 12609

Ion	Exp%	Act%
54.00	100	100
39.00	103.30	79.95
53.00	70.10	69.27
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(12) 1,3-BUTADIENE

3.962min (+0.007) 0.27PPBV m

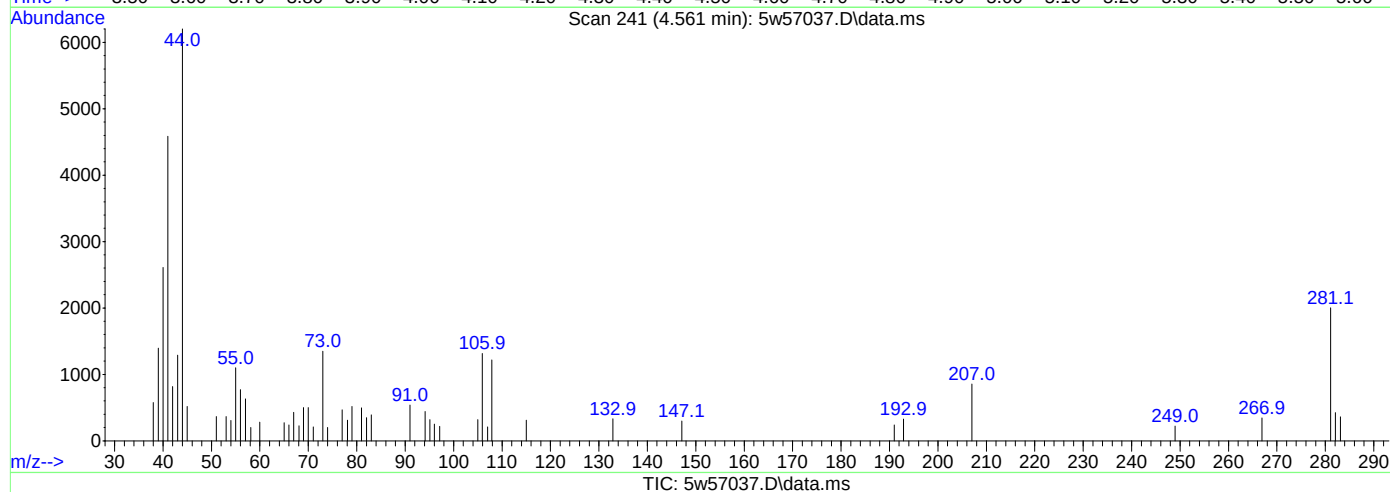
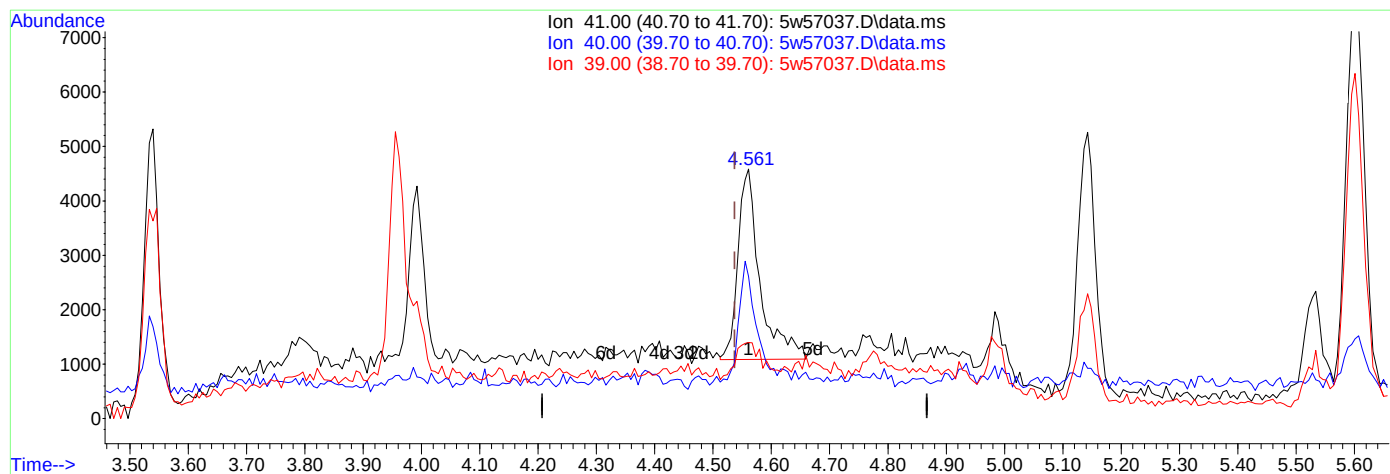
response 9386

Ion	Exp%	Act%
54.00	100	100
39.00	103.30	107.40
53.00	70.10	93.05
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(17) ACETONITRILE

4.561min (+0.024) 0.27PPBV

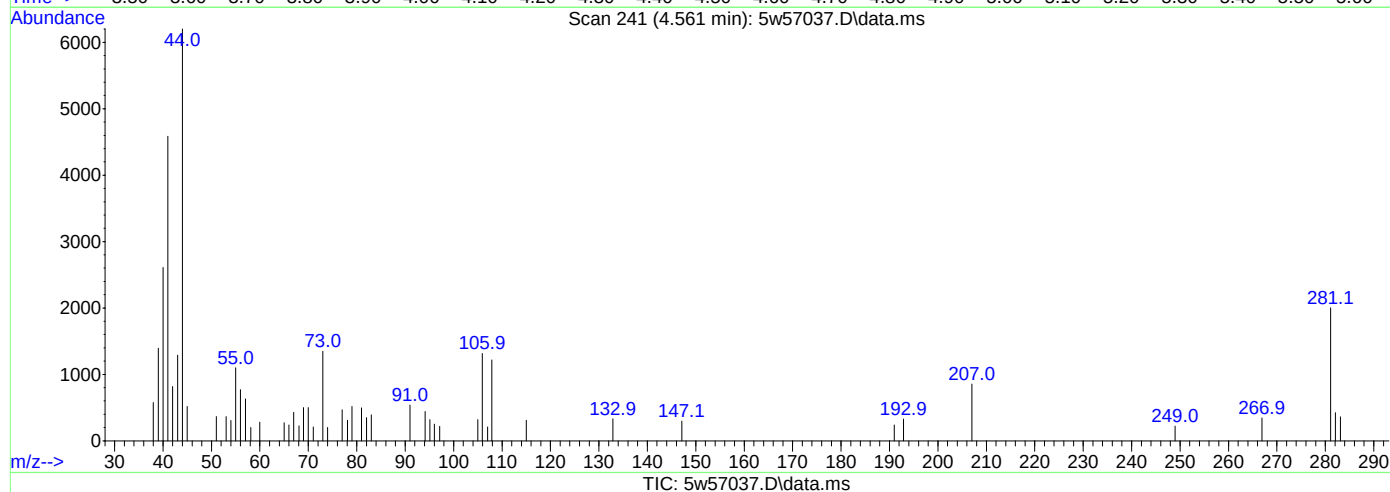
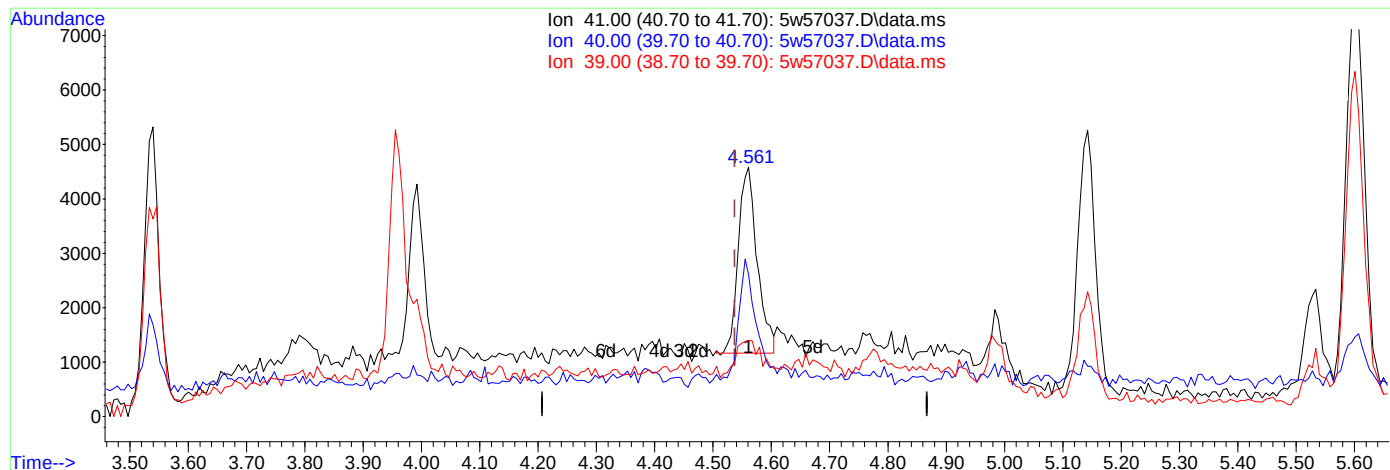
response 9176

Ion	Exp%	Act%
41.00	100	100
40.00	53.20	55.53
39.00	19.30	20.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(17) ACETONITRILE

4.561min (+0.024) 0.23PPBV m

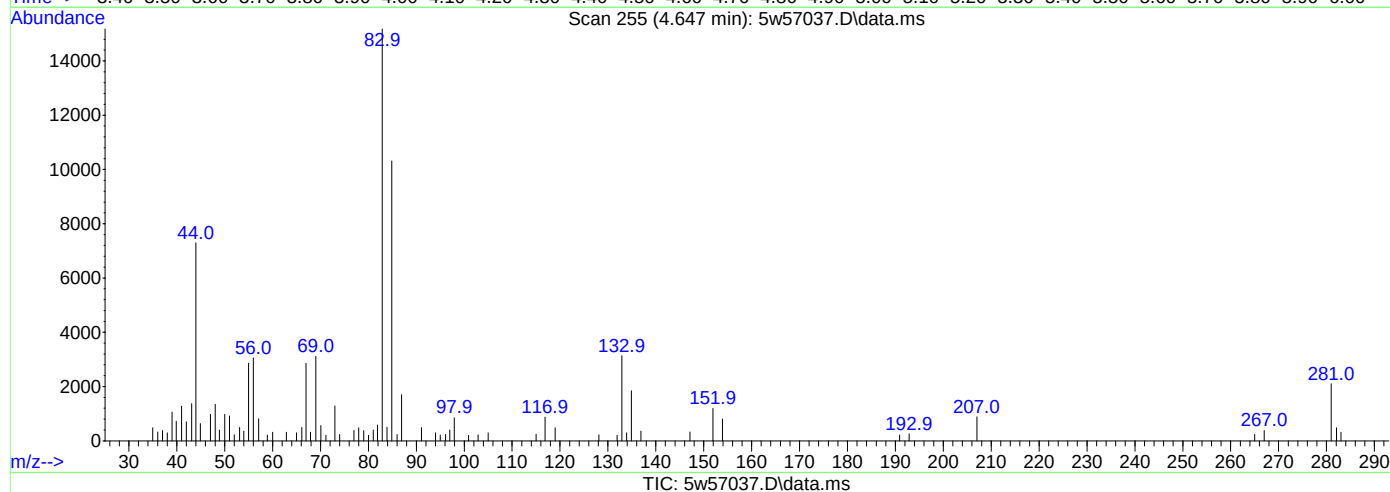
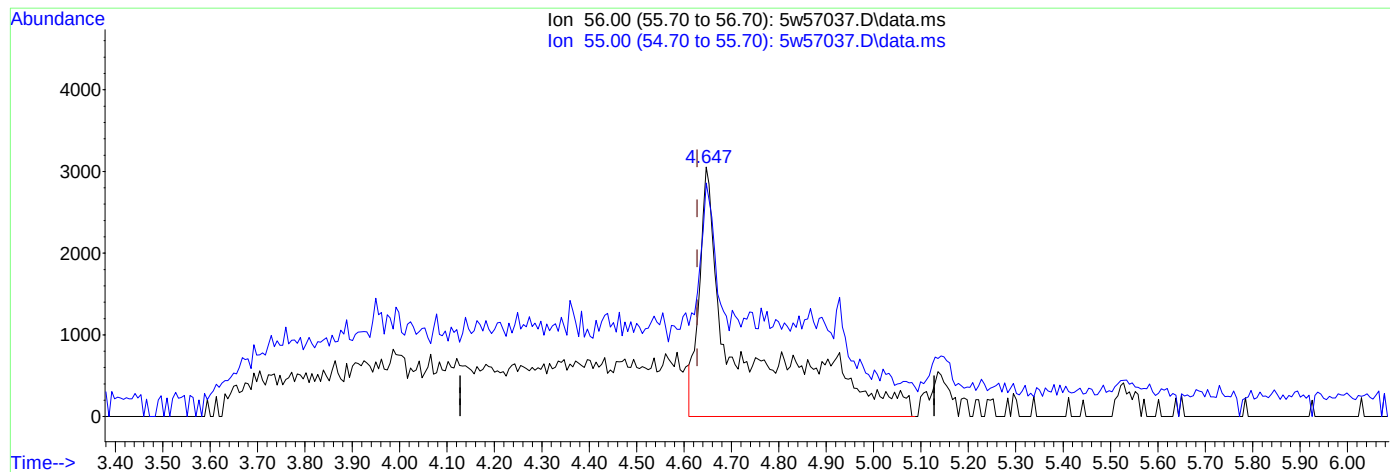
response 7698

Ion	Exp%	Act%
41.00	100	100
40.00	53.20	66.19
39.00	19.30	24.93
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(18) ACROLEIN

4.647min (+0.019) 0.99PPBV

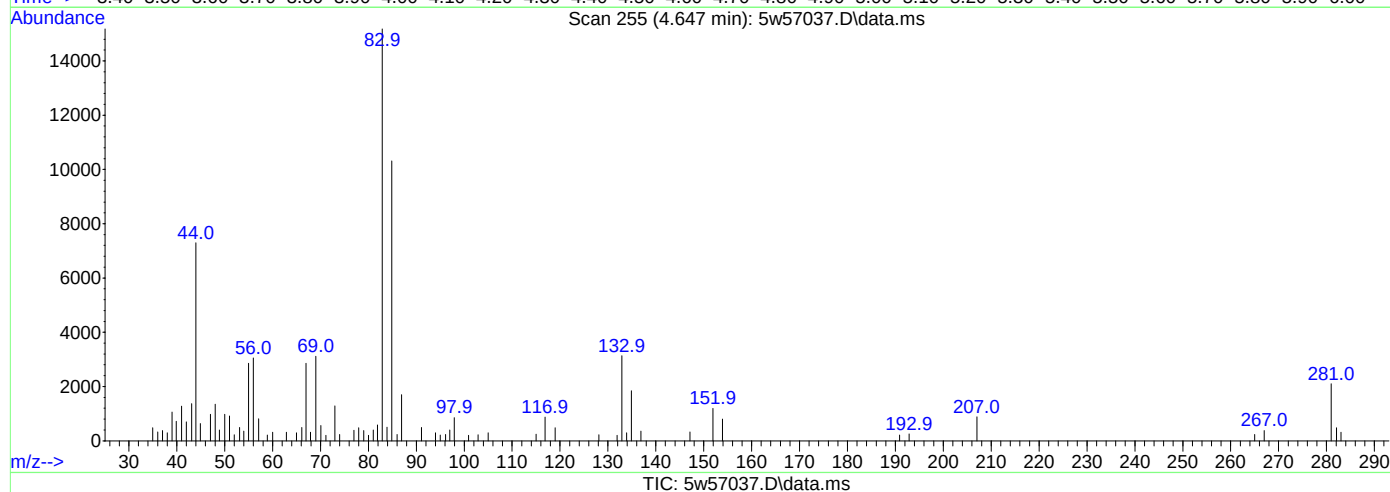
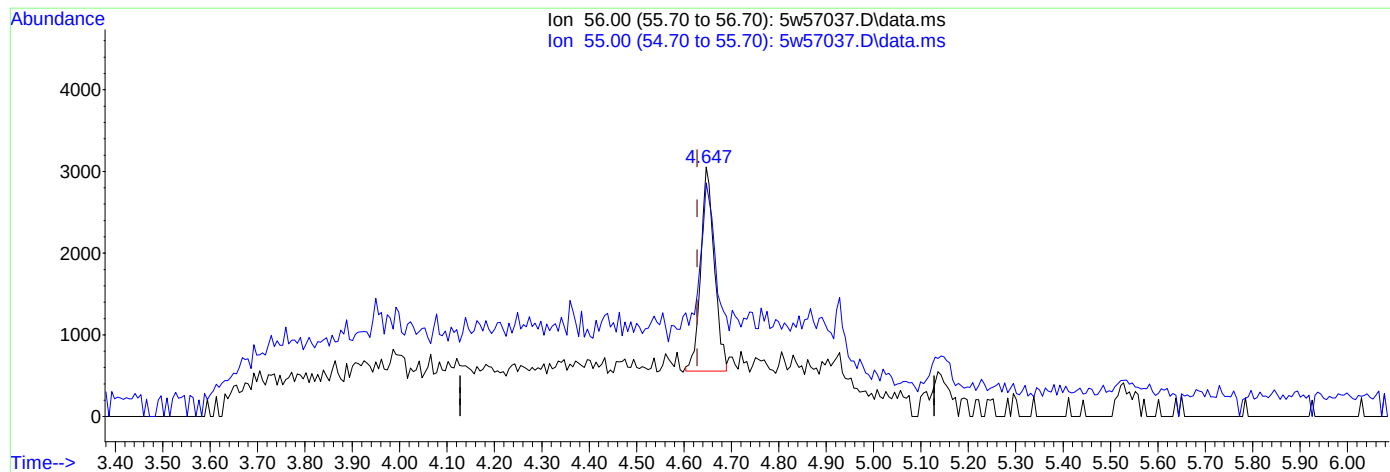
response 19600

Ion	Exp%	Act%
56.00	100	100
55.00	66.80	33.90#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(18) ACROLEIN

4.647min (+0.019) 0.25PPBV m

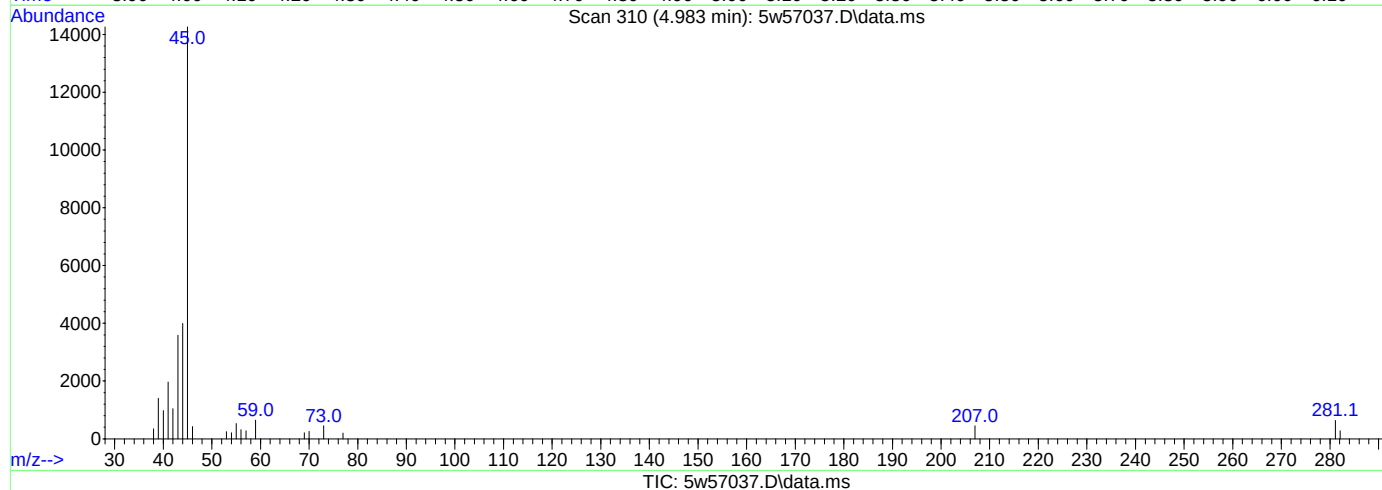
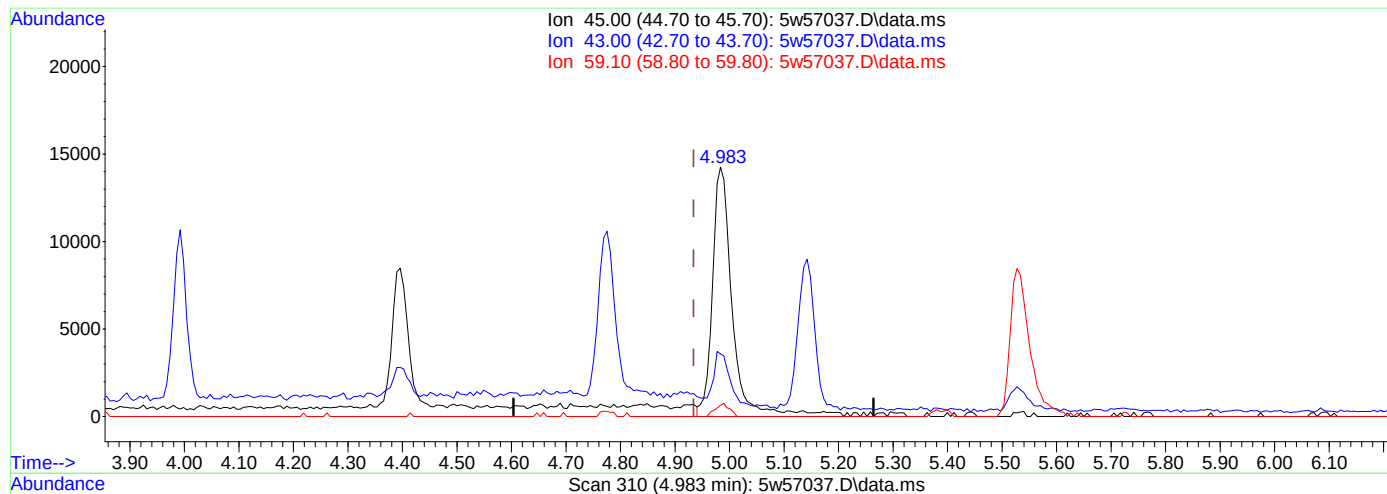
response 4962

Ion	Exp%	Act%
56.00	100	100
55.00	66.80	133.92#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(22) ISOPROPYL ALCOHOL

4.983min (+0.049) 0.40PPBV

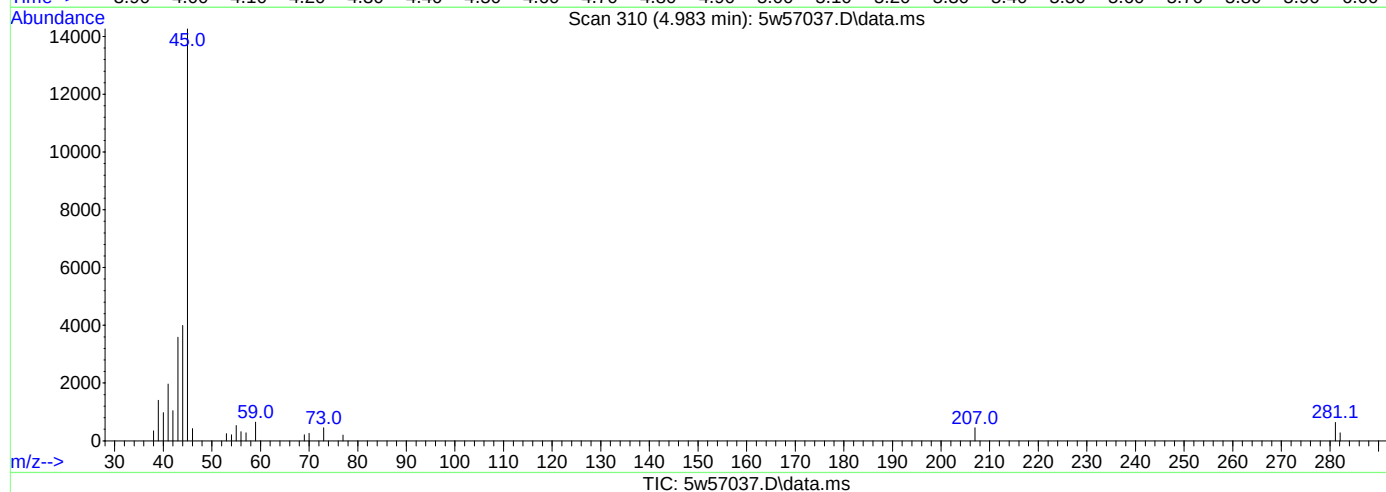
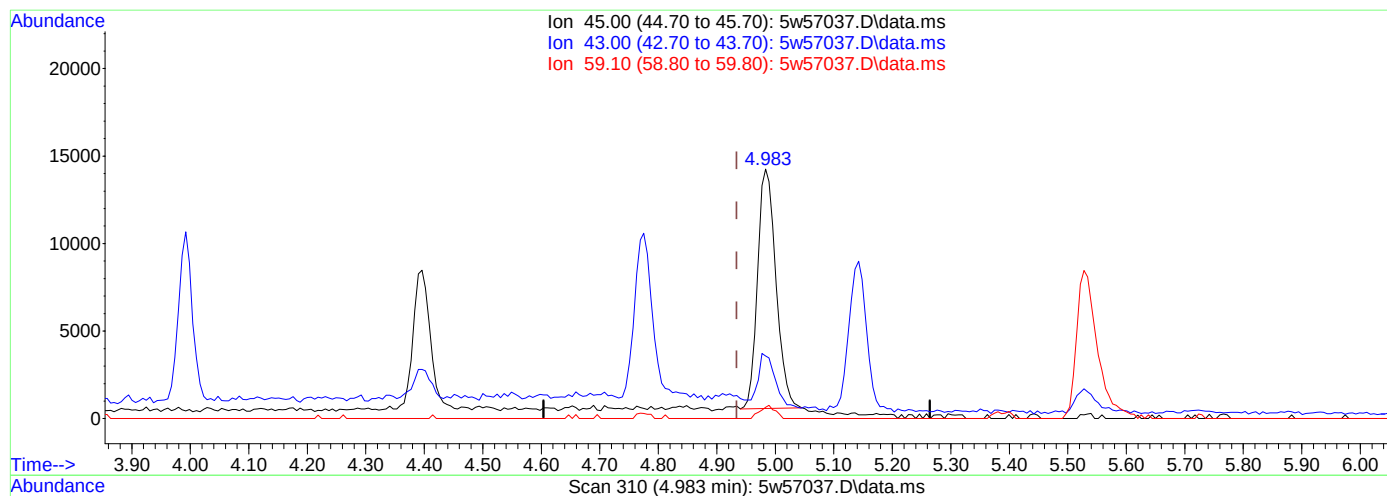
response 36380

Ion	Exp%	Act%
45.00	100	100
43.00	18.50	25.11
59.10	4.20	4.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(22) ISOPROPYL ALCOHOL

4.983min (+0.049) 0.33PPBV m

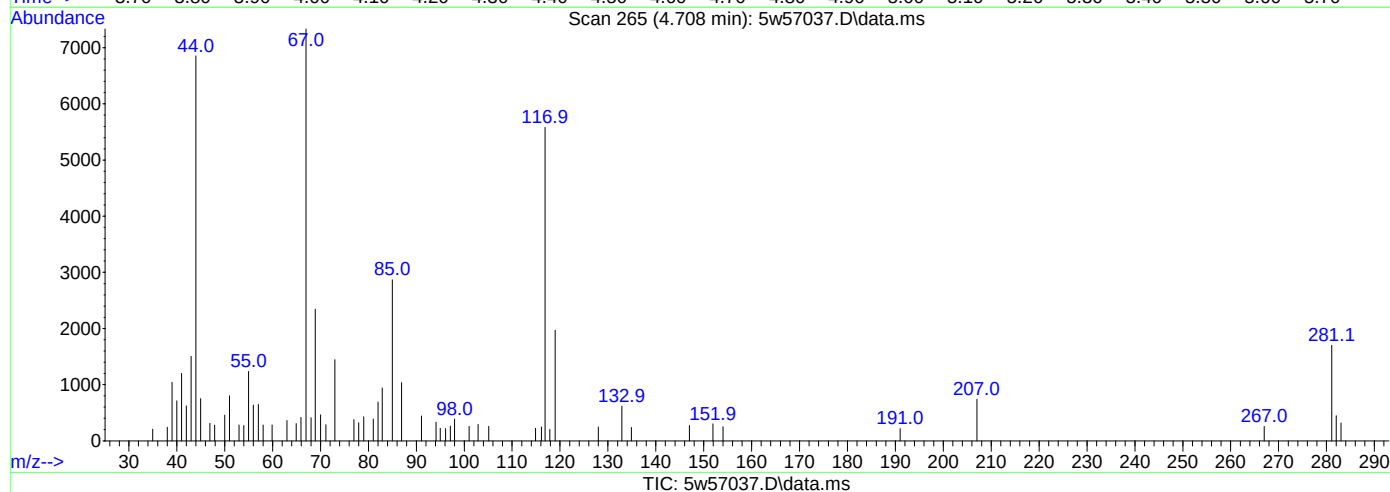
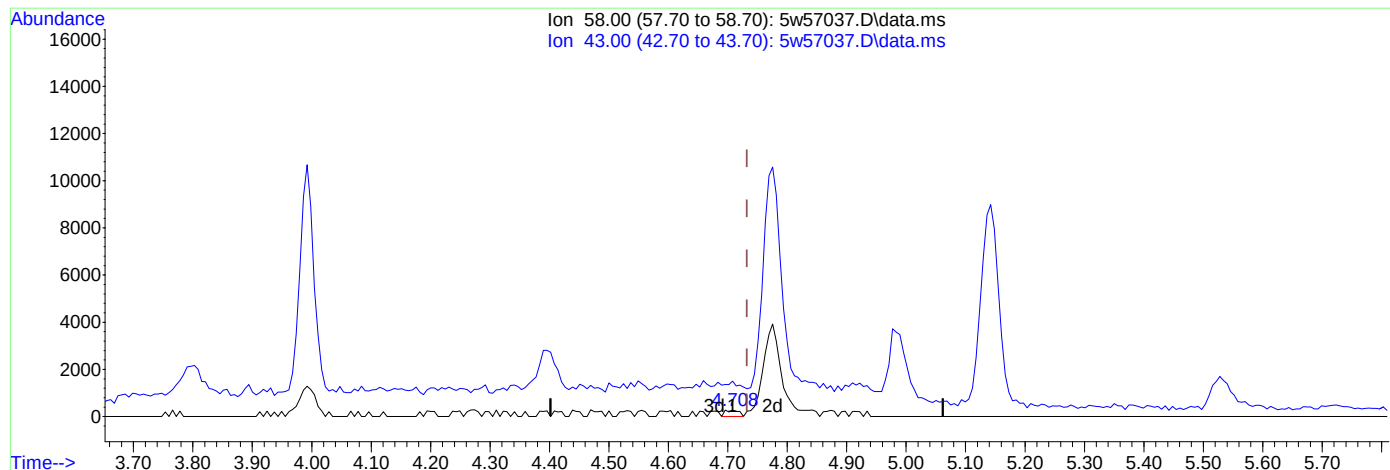
response 29873

Ion	Exp%	Act%
45.00	100	100
43.00	18.50	25.11
59.10	4.20	4.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(23) ACETONE

4.708min (-0.024) 0.02PPBV

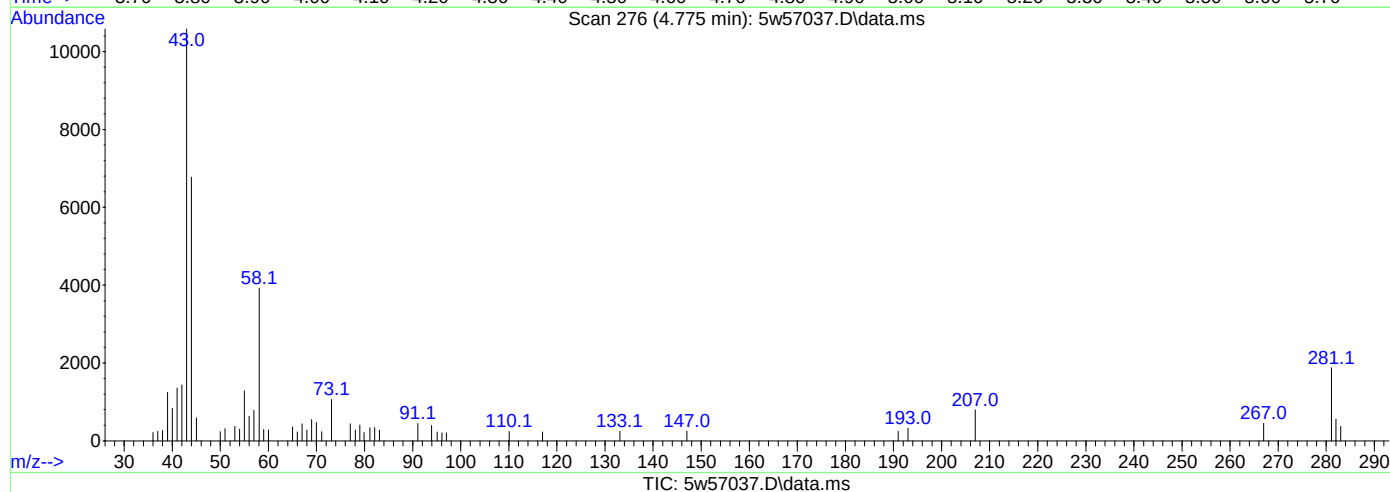
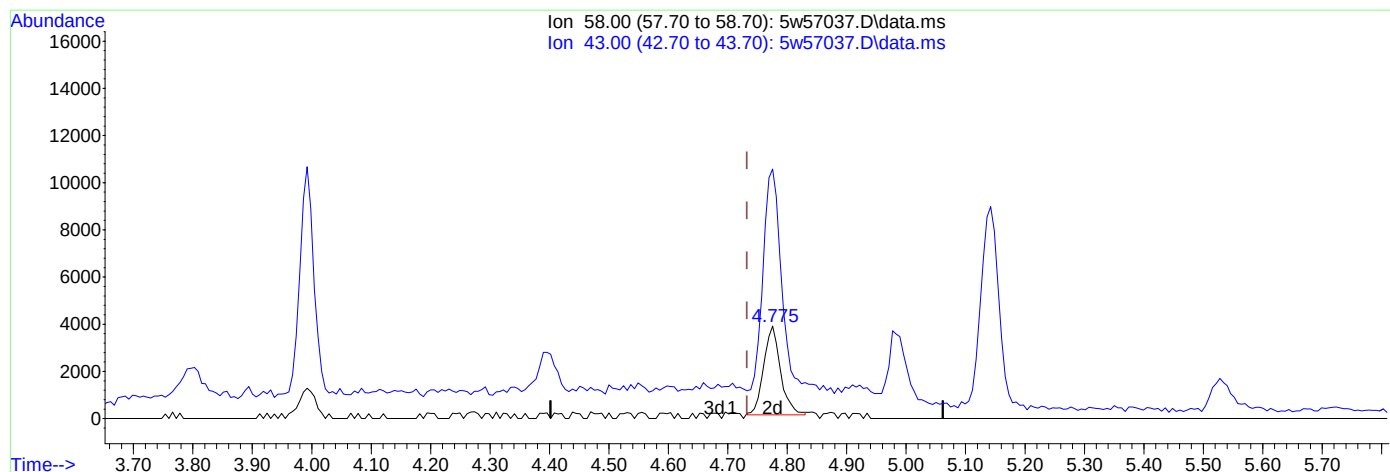
response 437

Ion	Exp%	Act%
58.00	100	100
43.00	2.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(23) ACETONE

4.775min (+0.043) 0.28PPBV m

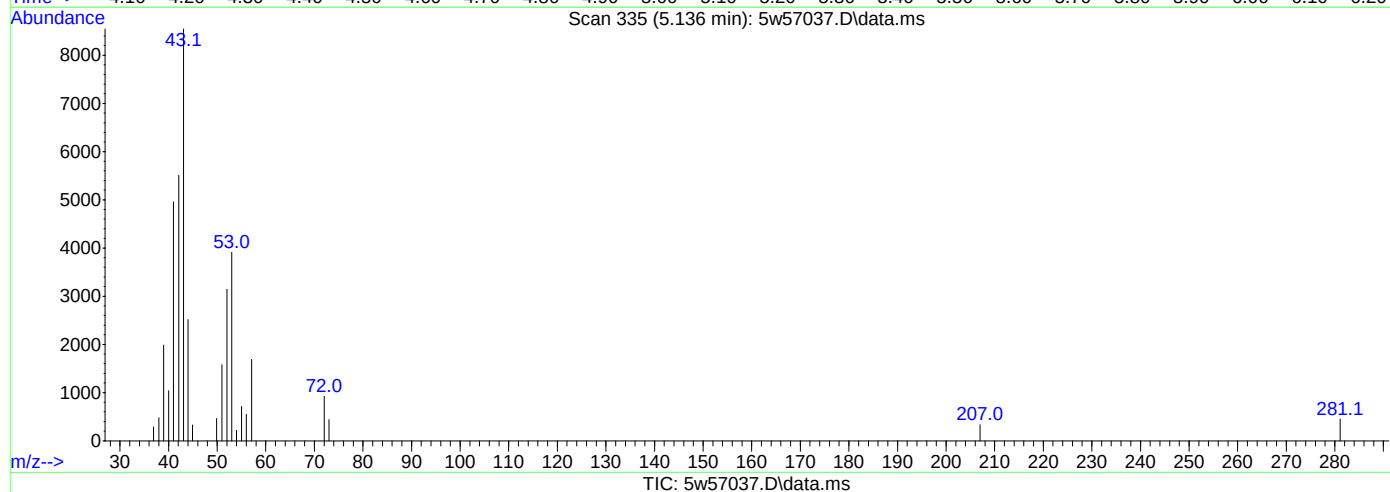
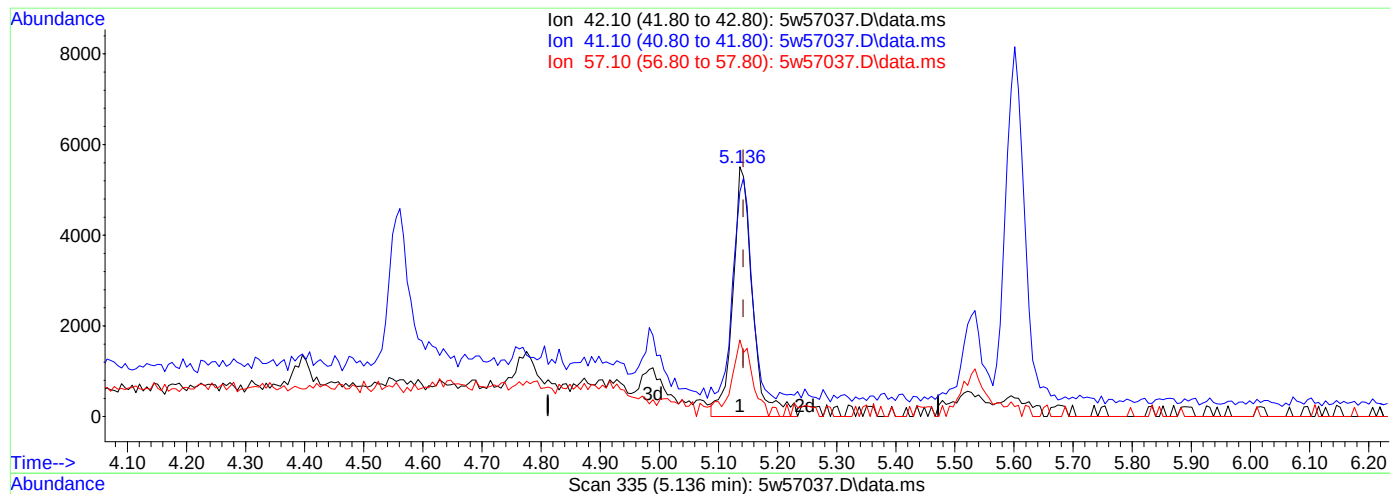
response 7418

Ion	Exp%	Act%
58.00	100	100
43.00	2.70	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(24) PENTANE

5.136min (-0.006) 0.29PPBV

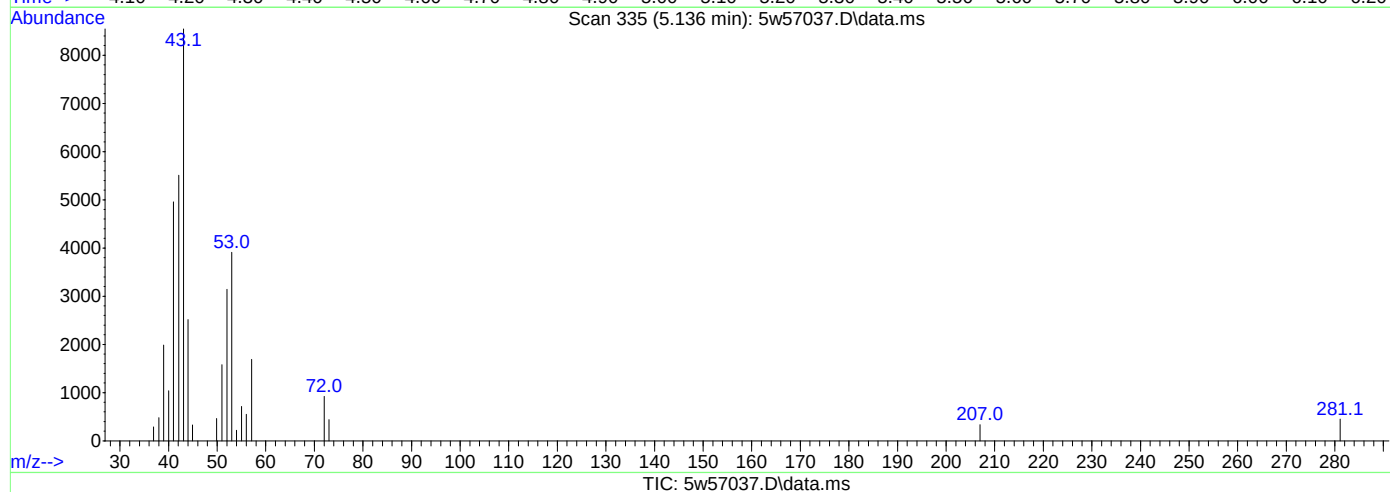
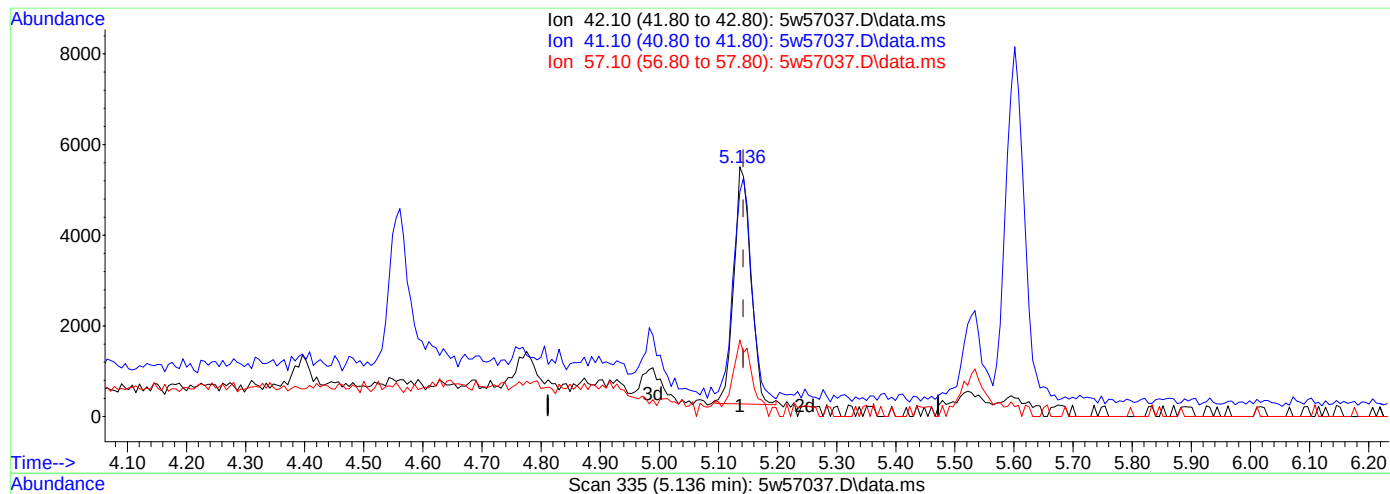
response 12721

Ion	Exp%	Act%
42.10	100	100
41.10	92.90	81.75
57.10	27.40	29.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(24) PENTANE

5.136min (-0.006) 0.24PPBV m

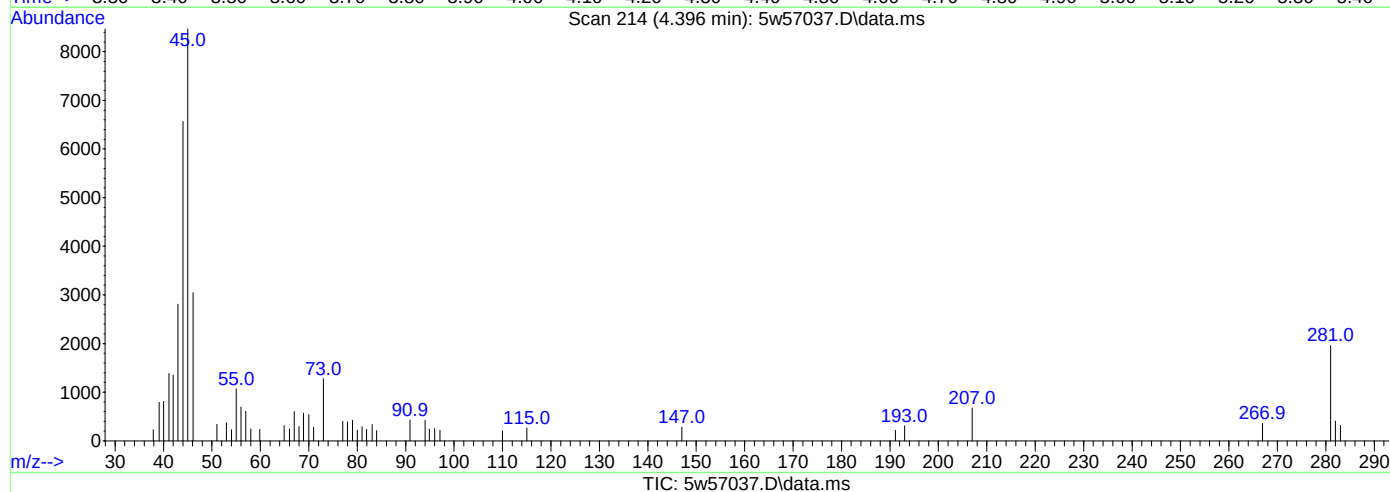
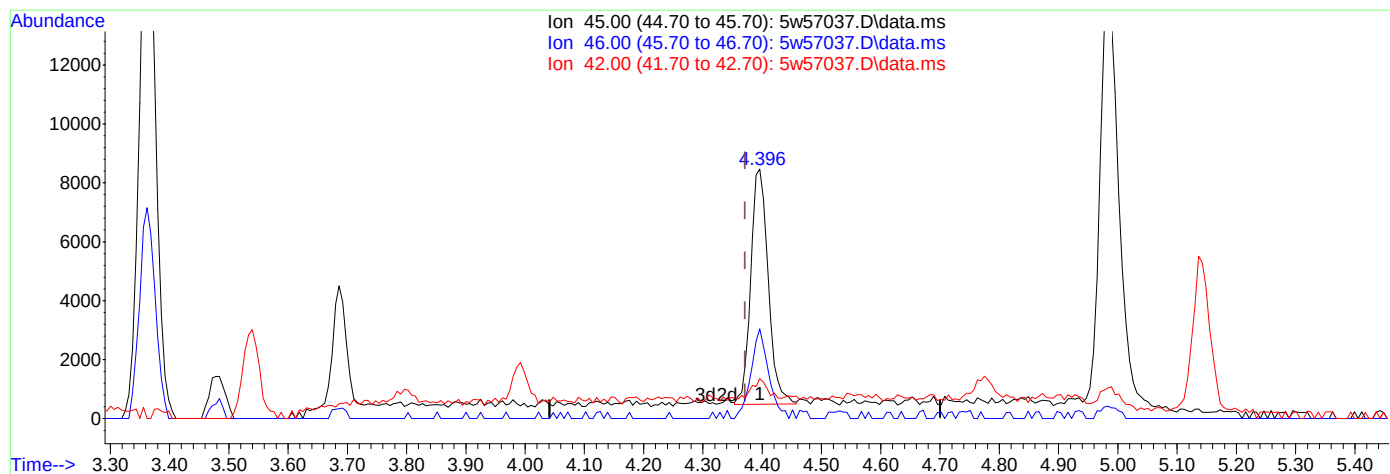
response 10357

Ion	Exp%	Act%
42.10	100	100
41.10	92.90	100.41
57.10	27.40	36.59
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(28) ETHANOL

4.396min (+0.025) 0.12PPBV

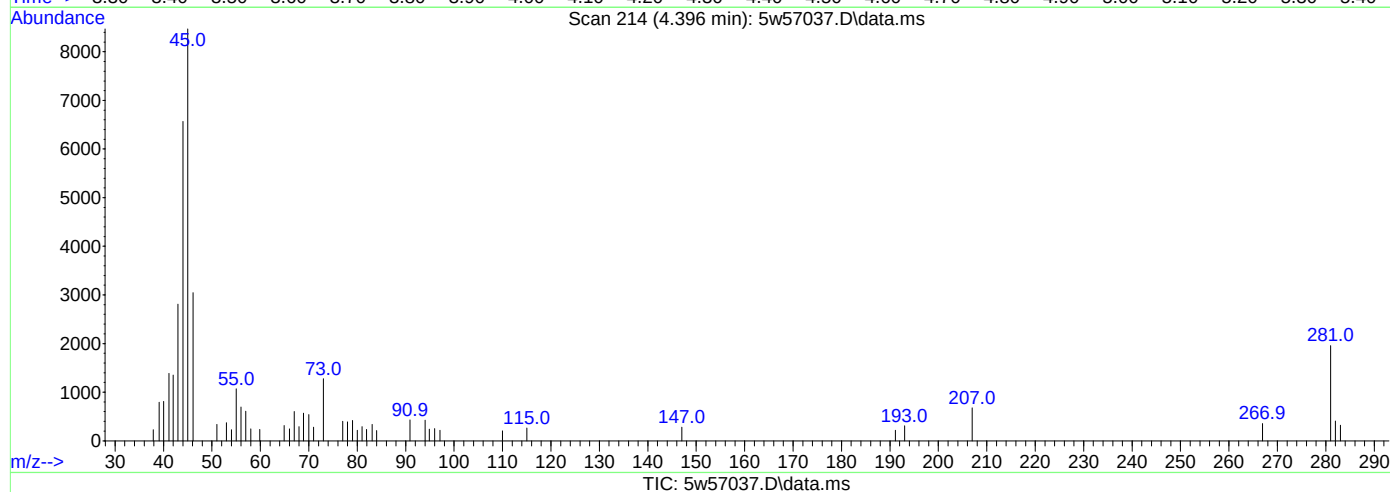
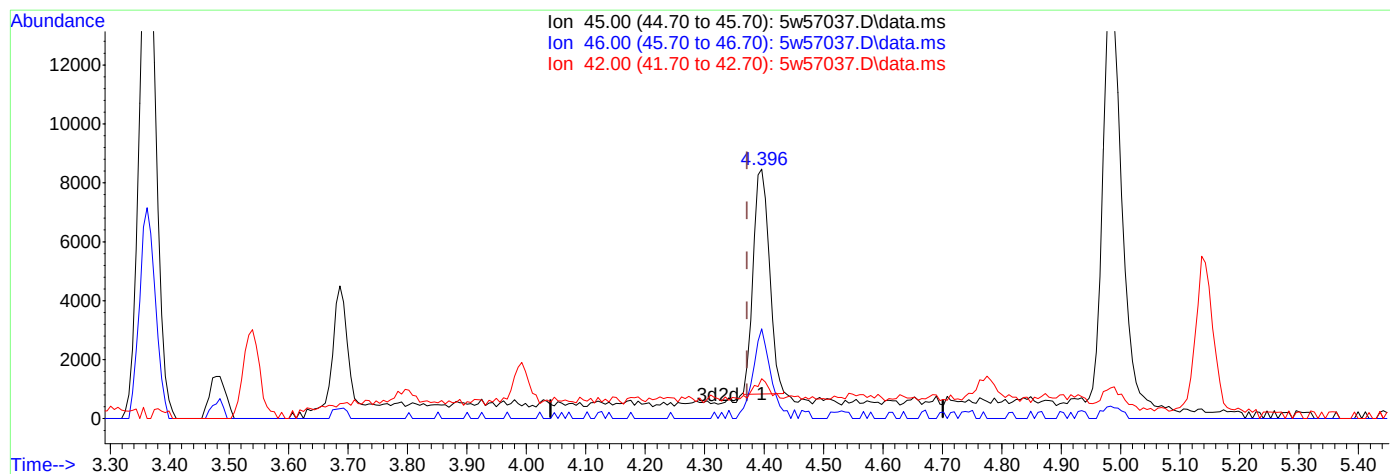
response 16299

Ion	Exp%	Act%
45.00	100	100
46.00	35.40	38.52
42.00	7.70	10.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:20:52 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(28) ETHANOL

4.396min (+0.025) 0.11PPBV m

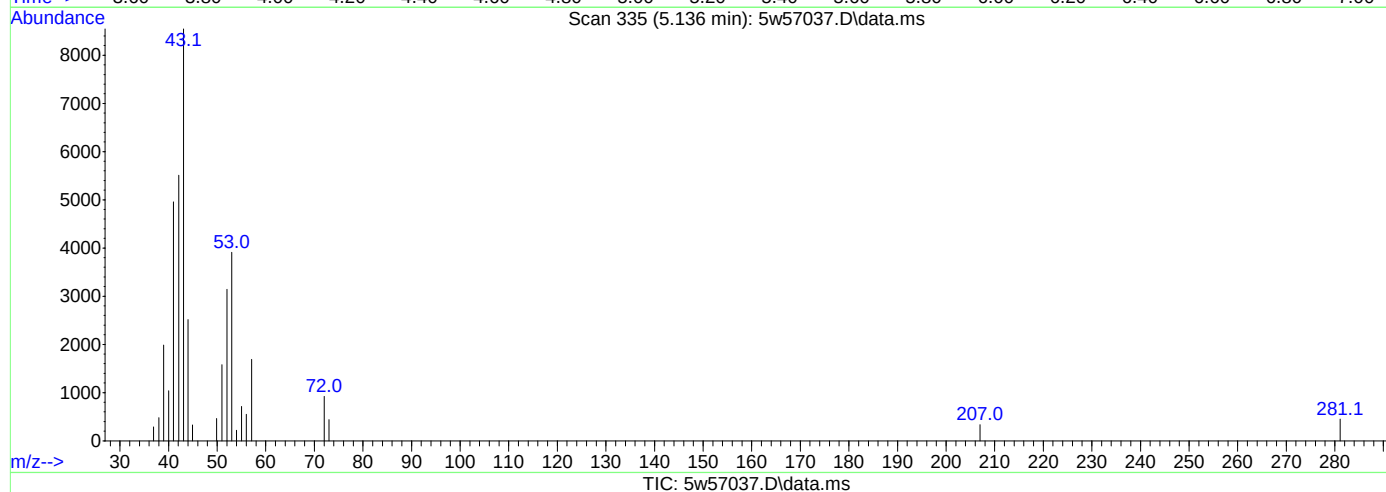
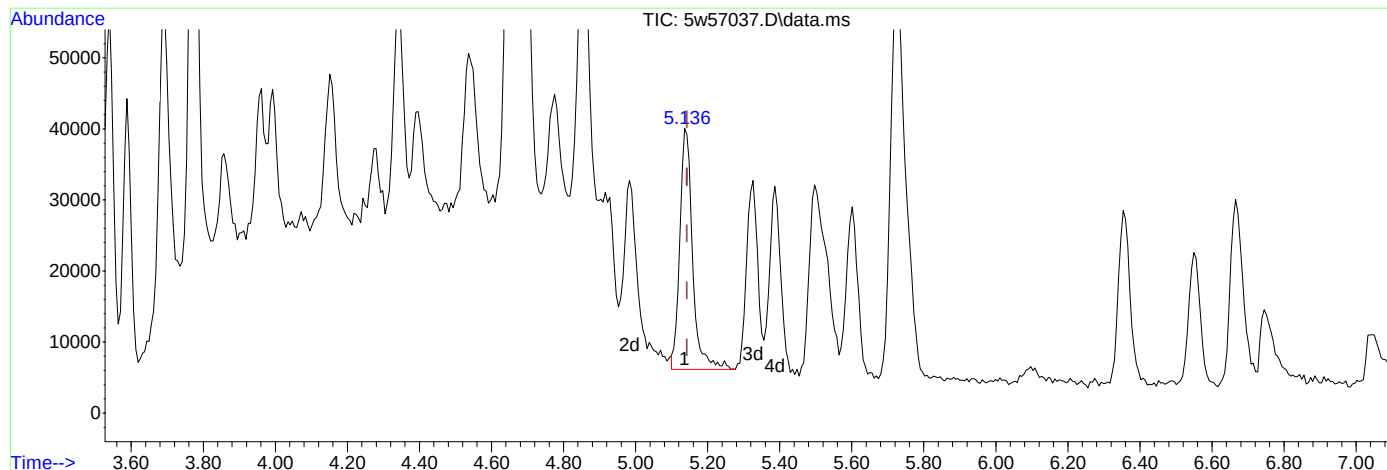
response 14402

Ion	Exp%	Act%
45.00	100	100
46.00	35.40	43.60
42.00	7.70	11.76
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:24:03 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(110) TVHC as equiv Pentane

5.136min (-0.006) 0.26PPBV

response 83245

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

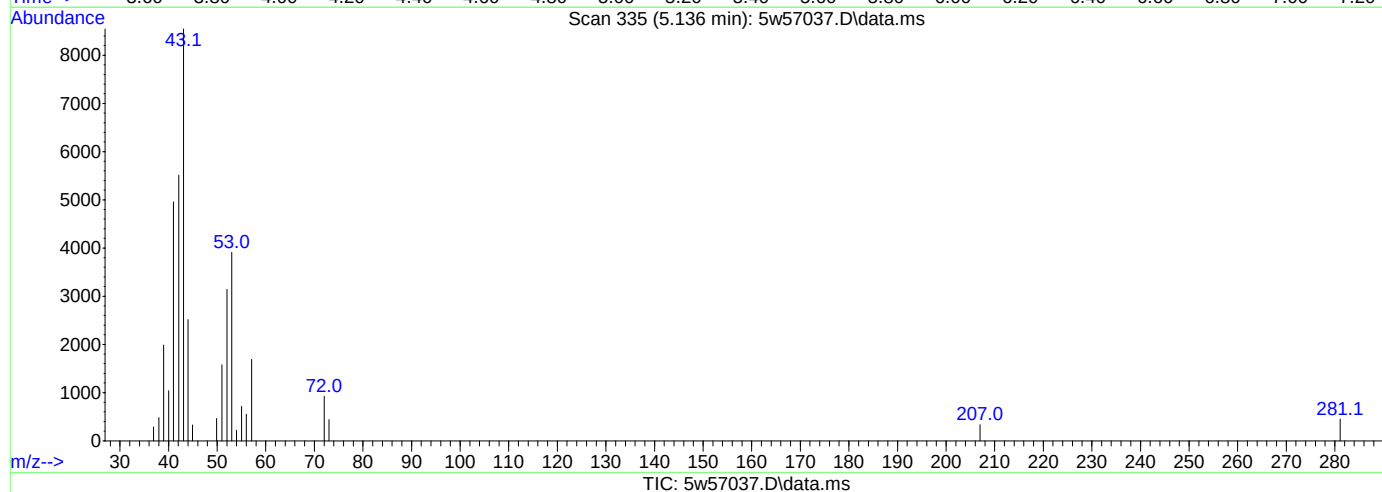
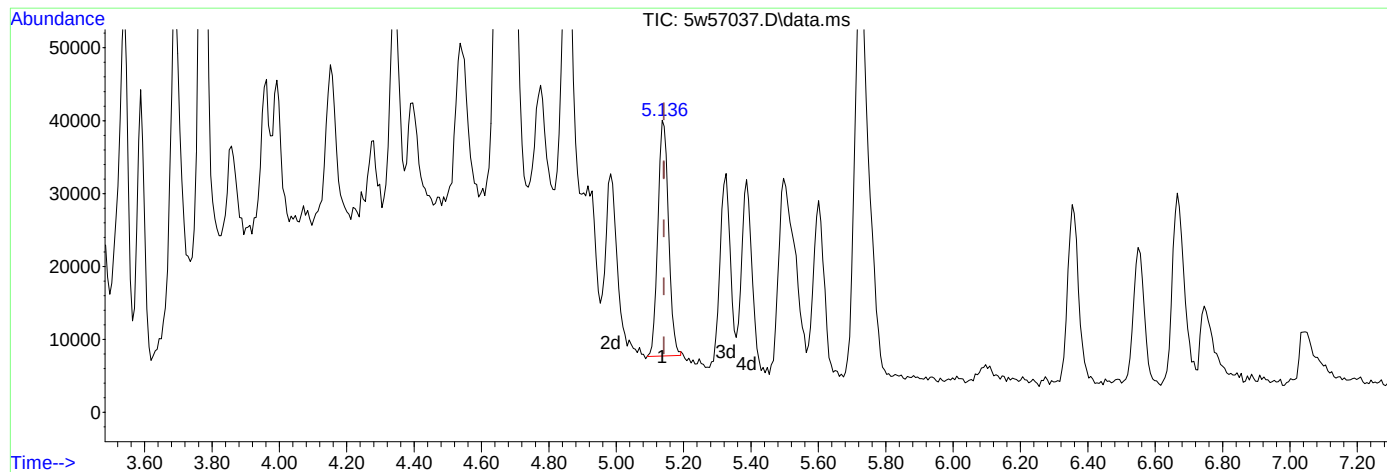
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:24:03 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(110) TVHC as equiv Pentane

5.136min (-0.006) 0.22PPBV m

response 70824

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

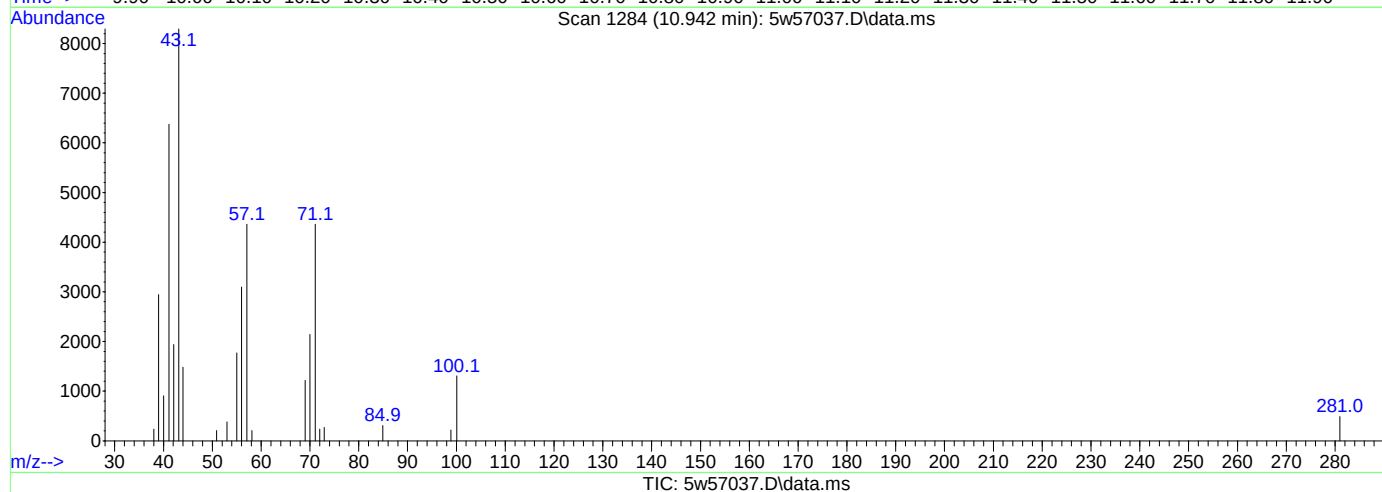
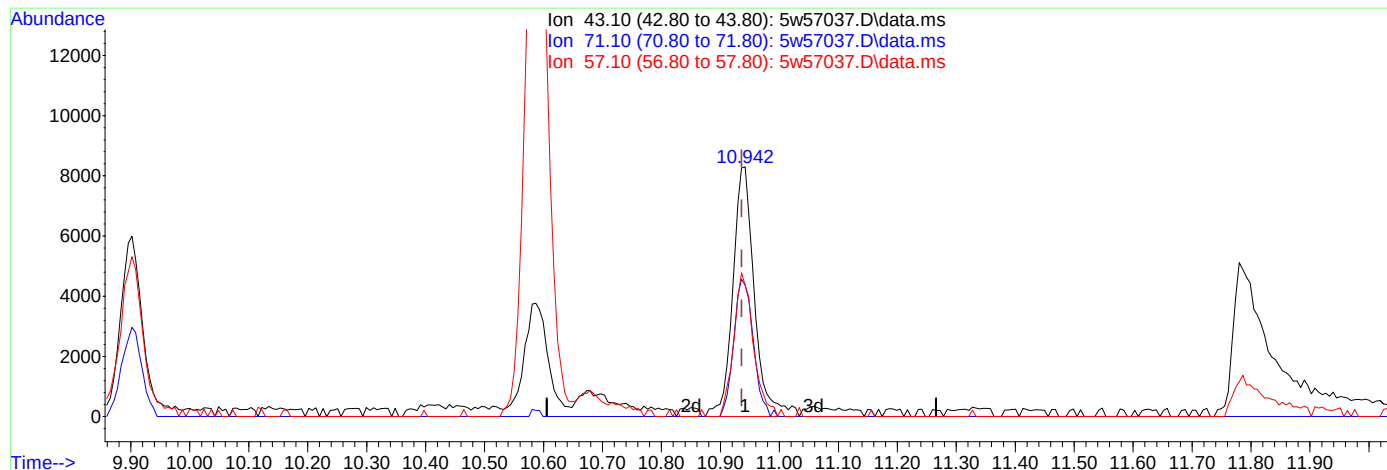
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:24:03 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(62) HEPTANE

10.942min (+0.006) 0.25PPBV

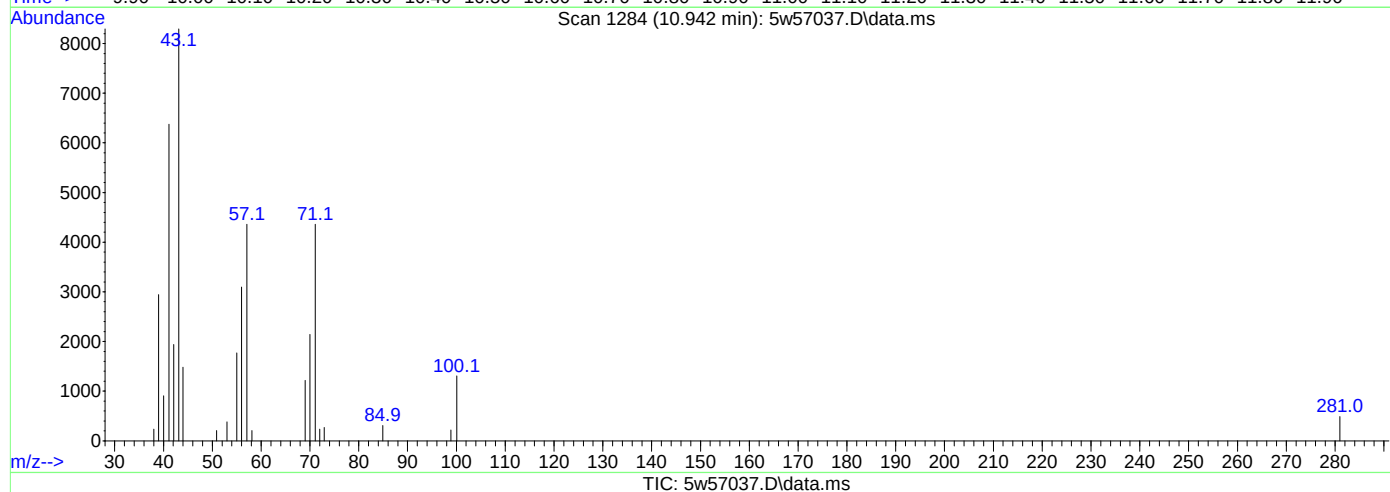
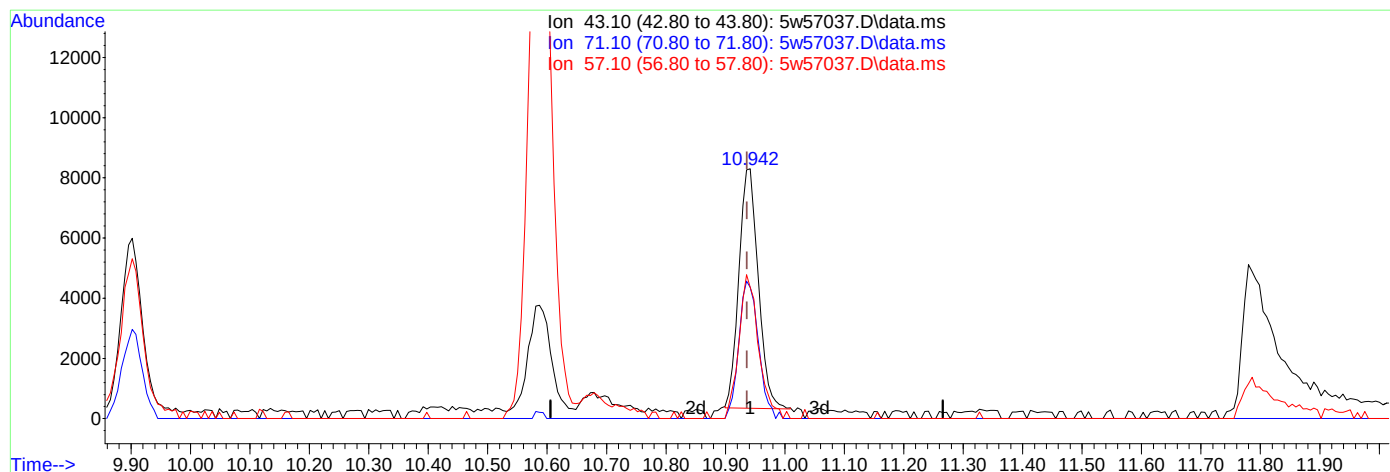
response 21130

Ion	Exp%	Act%
43.10	100	100
71.10	57.10	49.73
57.10	55.70	52.52
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:24:03 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(62) HEPTANE

10.942min (+0.006) 0.22PPBV m

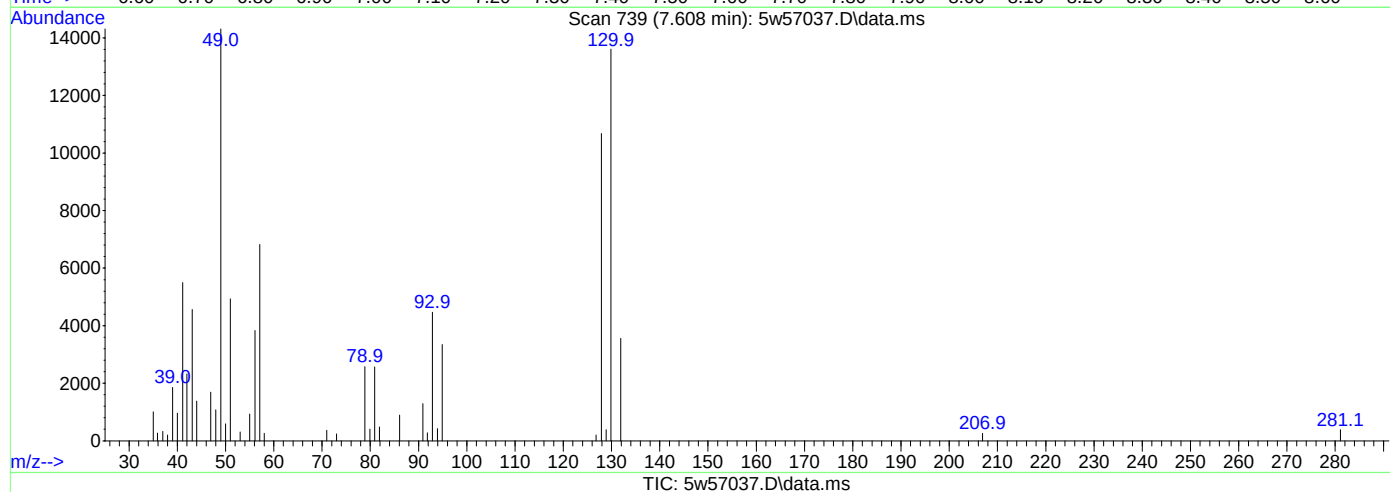
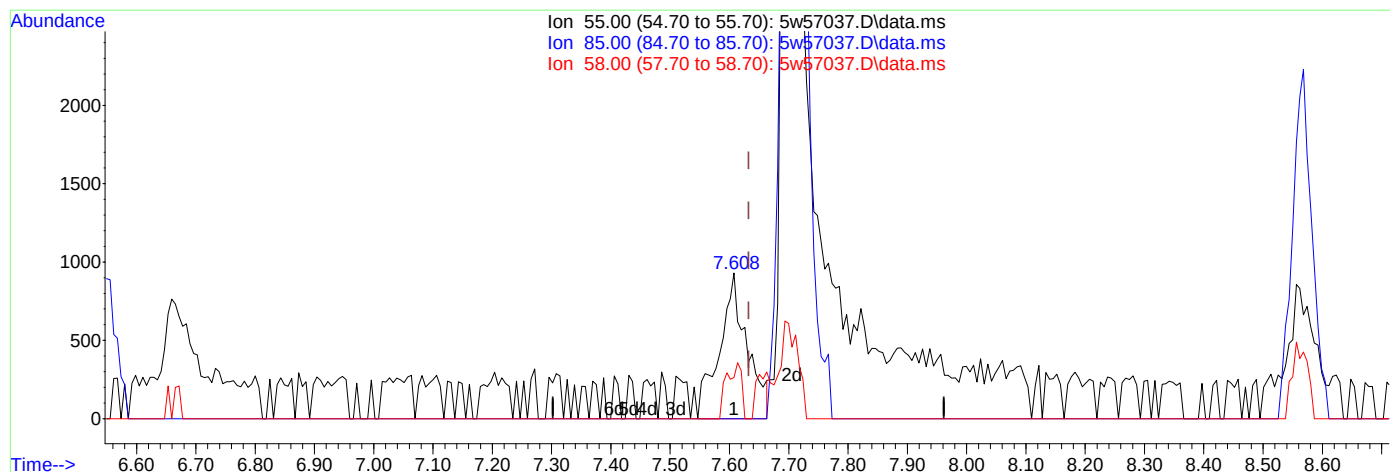
response 18088

Ion	Exp%	Act%
43.10	100	100
71.10	57.10	58.09
57.10	55.70	61.36
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 01:29:14 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(45) METHYL ACRYLATE

7.608min (-0.024) 0.06PPBV

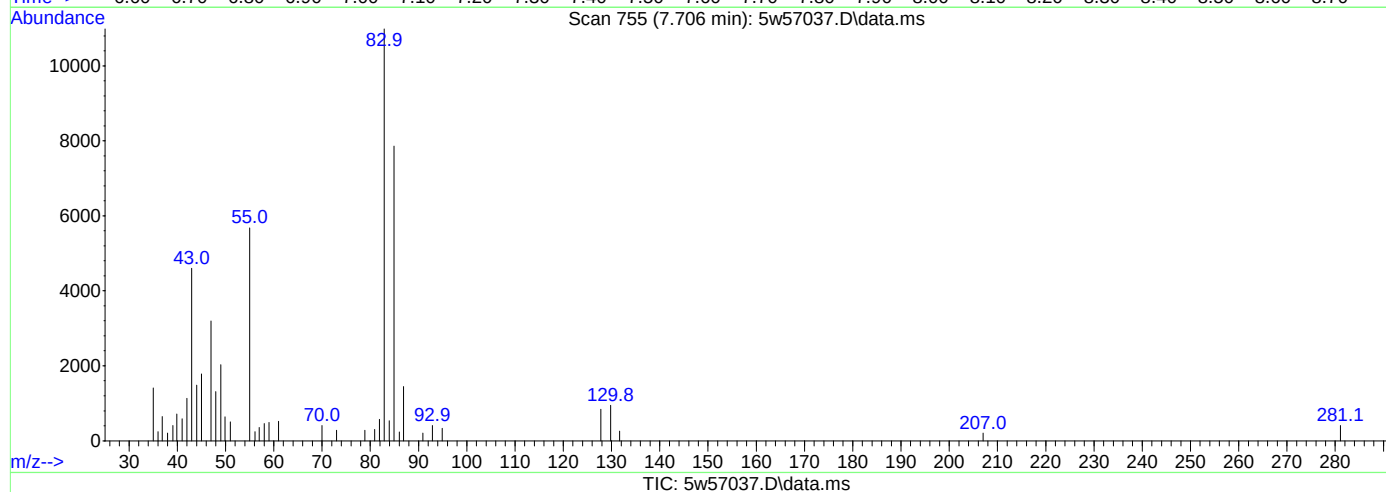
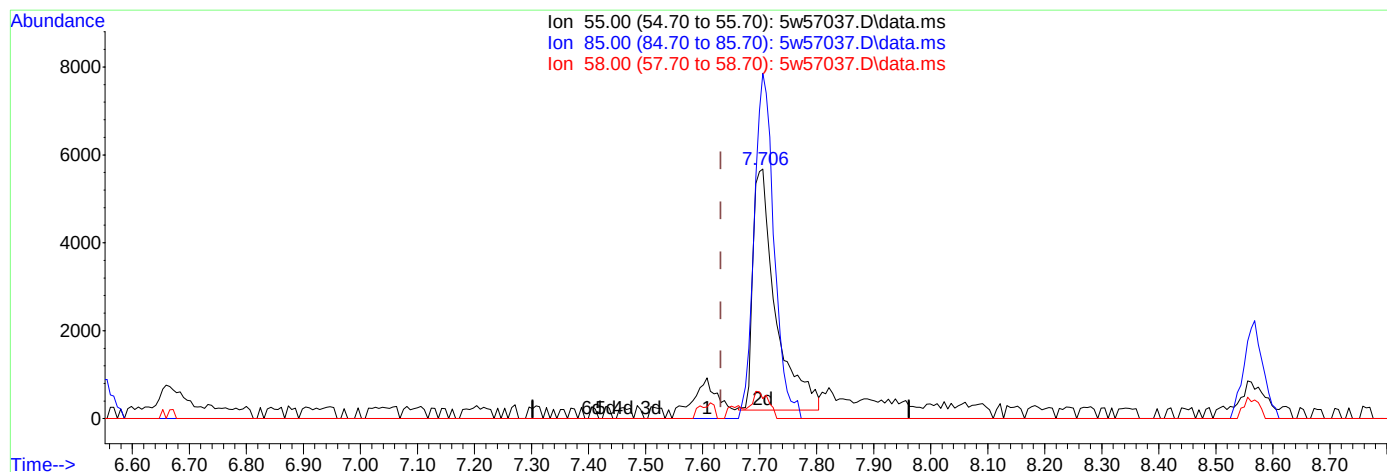
response 3023

Ion	Exp%	Act%
55.00	100	100
85.00	16.10	0.00#
58.00	13.60	20.64#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57037.D
Acq On : 23 Feb 2025 8:09 am
Operator : benk
Sample : ic2187-0.2
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 24 02:31:26 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 01:18:42 2025
Response via : Initial Calibration



(45) METHYL ACRYLATE

7.706min (+0.074) 0.28PPBV m

response 15265

Ion	Exp%	Act%
55.00	100	100
85.00	16.10	0.00#
58.00	13.60	4.09#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57043.D
Acq On : 23 Feb 2025 1:23 pm
Operator : benk
Sample : ic2187-5
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 23:58:42 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Sun Feb 23 23:58:28 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	421760	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1935328	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.255	82	943143	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.571	128	421760	10.00	PPBV	# 0.00

System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.500	95	1265816	10.13	PPBV	0.00
Spiked Amount	10.000	Range	65 - 128	Recovery	=	101.30%

Target Compounds						Qvalue
2) FREON 115	3.411	119	320062	5.69	PPBV	100
3) FREON 152A	3.491	65	143072	5.31	PPBV	99
4) CHLORODIFLUOROMETHANE	3.521	67	70337	5.27	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.546	116	366855	5.23	PPBV	100
6) DICHLORODIFLUOROMETHANE	3.595	85	690007	5.32	PPBV	100
7) PROPYLENE	3.540	41	161699	5.45	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.693	65	585842	5.36	PPBV	99
9) FREON 114	3.778	85	784591	5.63	PPBV	98
10) CHLOROMETHANE	3.711	52	85214	5.35	PPBV	99
11) VINYL CHLORIDE	3.864	62	269056	5.23	PPBV	100
12) 1,3-BUTADIENE	3.962	54	181852	5.47	PPBV	97
13) n-BUTANE	3.998	43	294277	5.55	PPBV	99
14) BROMOMETHANE	4.158	94	280248	5.29	PPBV	99
15) CHLOROETHANE	4.286	64	122509	5.26	PPBV	100
16) DICHLOROFLUOROMETHANE	4.347	67	570105	5.38	PPBV	100
17) ACETONITRILE	4.543	41	159030	5.16	PPBV	99
18) ACROLEIN	4.641	56	110697	5.47	PPBV	94
19) FREON 123	4.659	83	632688	5.40	PPBV	99
20) FREON 123A	4.702	117	390167	5.59	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.861	101	693954	5.39	PPBV	100
22) ISOPROPYL ALCOHOL	4.947	45	439807	5.30	PPBV	97
23) ACETONE	4.745	58	112333	5.34	PPBV #	1
24) PENTANE	5.149	42	207469	5.54	PPBV	99
25) IODOMETHANE	5.332	142	709930	5.54	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.393	96	220276	5.40	PPBV	100
27) CARBON DISULFIDE	5.760	76	607005	5.40	PPBV	99
28) ETHANOL	4.378	45	119129	5.22	PPBV	99
29) BROMOETHENE	4.543	106	284049	5.35	PPBV	99
30) ACRYLONITRILE	5.118	52	145746	5.54	PPBV	99
31) METHYLENE CHLORIDE	5.503	84	196034	5.34	PPBV	100
32) 3-CHLOROPROPENE	5.607	76	100158	5.30	PPBV	100
33) FREON 113	5.730	151	408507	5.33	PPBV	99
34) TRANS-1,2-DICHLOROETHY...	6.360	96	229900	5.28	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.467	59	413955	5.00	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.623	73	589921	5.41	PPBV	100
37) TETRAHYDROFURAN	8.152	72	96706	5.23	PPBV	99
38) HEXANE	7.608	57	341954	5.40	PPBV	99
39) VINYL ACETATE	6.715	86	39376	5.07	PPBV	100
40) 1,1-DICHLOROETHANE	6.556	63	417268	5.38	PPBV	100
41) METHYL ETHYL KETONE	6.966	72	99674	5.38	PPBV	98
42) cis-1,2-DICHLOROETHYLENE	7.400	96	245311	5.35	PPBV	100
43) DIISOPROPYL ETHER	7.620	59	102427	5.36	PPBV	98
44) ETHYL ACETATE	7.657	61	75922	5.36	PPBV #	38
45) METHYL ACRYLATE	7.645	55	417833	5.38	PPBV	98
46) CHLOROFORM	7.712	83	497362	5.45	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.568	57	398716	5.42	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.776	97	523575	5.41	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57043.D
 Acq On : 23 Feb 2025 1:23 pm
 Operator : benk
 Sample : ic2187-5
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 23:58:42 2025

Quant Method : C:\msdchem\1\methods\M5w21487.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Sun Feb 23 23:58:28 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) CARBON TETRACHLORIDE	9.468	117	595847	5.40	PPBV	100
50) 1,2-DICHLOROETHANE	8.507	62	348196	5.45	PPBV	100
52) BENZENE	9.303	78	682759	5.46	PPBV	100
53) CYCLOHEXANE	9.602	84	274990	5.43	PPBV	99
54) 2,3-DIMETHYLPENTANE	9.902	71	137017	5.36	PPBV	100
55) TRICHLOROETHYLENE	10.557	95	337483	5.25	PPBV	99
56) 1,2-DICHLOROPROPANE	10.263	63	264525	5.23	PPBV	100
57) DIBROMOMETHANE	10.239	174	363245	5.18	PPBV	99
58) ETHYL ACRYLATE	10.324	55	513248	5.29	PPBV	99
59) BROMODICHLOROMETHANE	10.508	83	575372	5.23	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	10.587	57	1075480	5.42	PPBV	100
61) 1,4-DIOXANE	10.587	88	160894	5.22	PPBV #	1
62) HEPTANE	10.936	43	374370	5.54	PPBV	98
63) METHYL METHACRYLATE	10.850	69	235863	5.38	PPBV	97
64) METHYL ISOBUTYL KETONE	11.701	58	211079	5.31	PPBV	98
65) cis-1,3-DICHLOROPROPENE	11.633	75	444856	5.27	PPBV	99
66) TOLUENE	12.869	92	498138	5.23	PPBV	99
67) 1,3-DICHLOROPROPANE	12.912	76	409400	5.29	PPBV #	99
68) trans-1,3-DICHLOROPROPENE	12.319	75	394612	4.99	PPBV	99
69) 1,1,2-TRICHLOROETHANE	12.520	83	272781	5.28	PPBV	99
71) 2-HEXANONE	13.273	58	300894	5.31	PPBV	100
72) ETHYL METHACRYLATE	13.304	69	410912	5.30	PPBV	99
73) TETRACHLOROETHYLENE	14.374	164	405097	5.52	PPBV	100
74) DIBROMOCHLOROMETHANE	13.414	129	655291	5.29	PPBV	100
75) 1,2-DIBROMOETHANE	13.732	107	543629	5.56	PPBV	100
76) OCTANE	14.240	43	526288	5.49	PPBV	100
77) 1,1,1,2-TETRACHLOROETHANE	15.298	131	434464	5.40	PPBV	99
78) CHLOROBENZENE	15.316	112	721834	5.44	PPBV	100
79) ETHYLBENZENE	15.867	91	1123861	5.57	PPBV	99
80) m,p-XYLENE	16.118	106	870293	10.80	PPBV	98
81) o-XYLENE	16.809	106	426681	5.50	PPBV	99
82) STYRENE	16.662	104	676876	5.53	PPBV	100
83) NONANE	17.225	43	544032	5.54	PPBV	99
84) BROMOFORM	16.197	173	703262	5.41	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.815	83	713249	5.54	PPBV	100
87) 1,2,3-TRICHLOROPROPANE	17.005	75	502587	5.41	PPBV	100
88) ISOPROPYLBENZENE	17.727	105	1230260	5.37	PPBV	100
89) BROMOBENZENE	17.812	77	592158	5.26	PPBV	100
90) 2-CHLOROTOLUENE	18.455	126	339881	5.17	PPBV	100
91) n-PROPYLBENZENE	18.546	120	353691	5.36	PPBV	99
92) 4-ETHYLTOLUENE	18.791	105	1273476	5.55	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	18.926	105	1053221	5.54	PPBV	99
94) ALPHA-METHYLSTYRENE	19.177	118	550288	5.23	PPBV	100
95) tert-BUTYLBENZENE	19.531	134	245510	5.52	PPBV	100
96) 1,2,4-TRIMETHYLBENZENE	19.550	105	1093831	5.55	PPBV	99
97) m-DICHLOROBENZENE	19.739	146	815026	5.27	PPBV	100
98) BENZYL CHLORIDE	19.733	91	989947	5.22	PPBV	100
99) p-DICHLOROBENZENE	19.843	146	823489	5.57	PPBV	99
100) sec-BUTYLBENZENE	19.941	134	302829	5.54	PPBV	97
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	1076834	5.40	PPBV #	100
102) p-ISOPROPYLTOLUENE	20.192	134	344380	5.45	PPBV	98
103) o-DICHLOROBENZENE	20.333	146	772351	5.46	PPBV	100
104) n-BUTYLBENZENE	20.785	134	342682	5.43	PPBV	97
105) HEXACHLOROETHANE	21.250	117	548891	5.56	PPBV	99
106) HEXACHLOROBUTADIENE	23.196	225	772706	5.49	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	23.061	180	721408	5.50	PPBV	99
108) NAPHTHALENE	22.743	128	1657423	5.55	PPBV	99
110) TVHC as equiv Pentane	5.149	TIC	1366883	5.40	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57043.D
Acq On : 23 Feb 2025 1:23 pm
Operator : benk
Sample : ic2187-5
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 23:58:42 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Sun Feb 23 23:58:28 2025
Response via : Initial Calibration

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

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

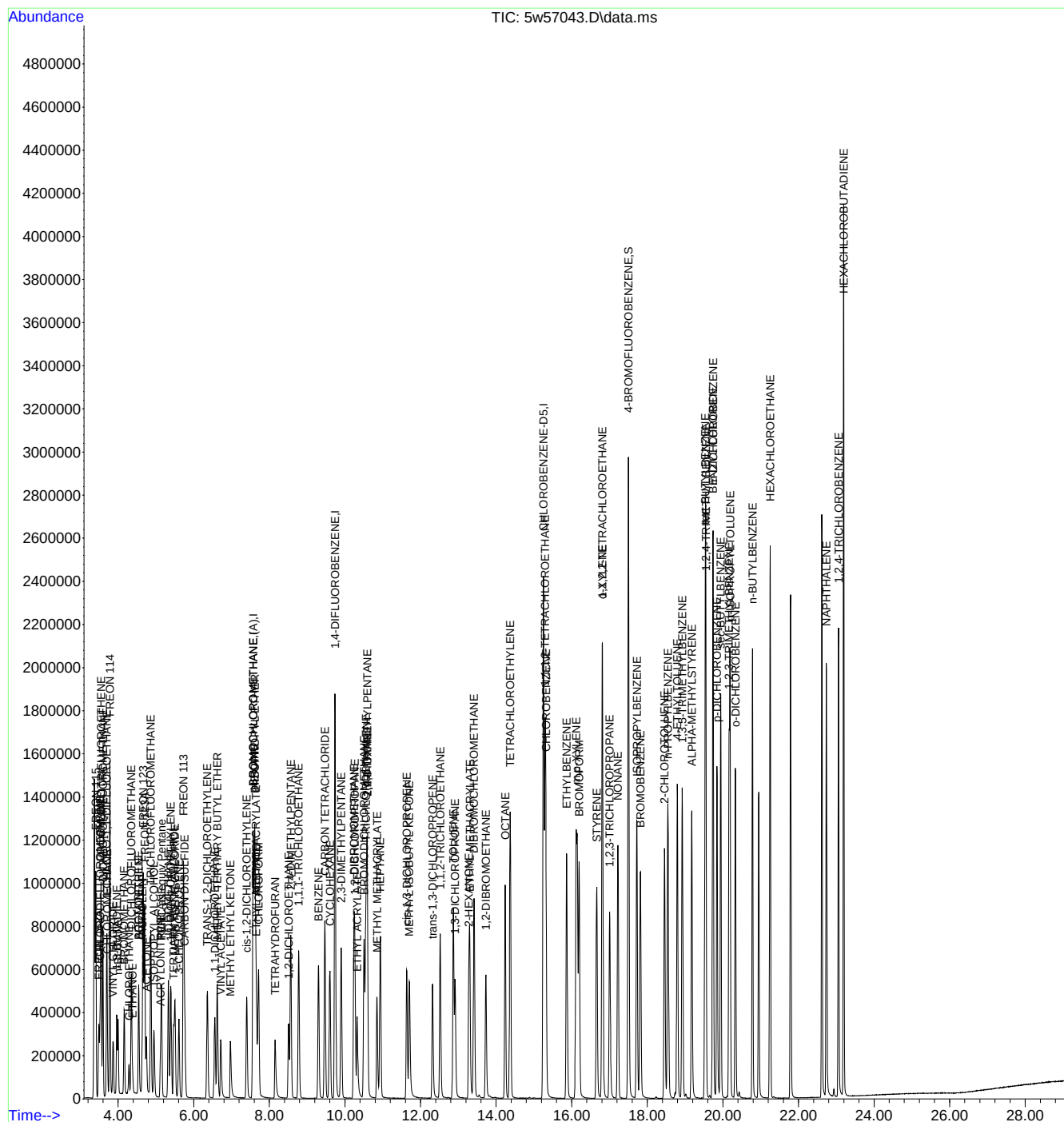
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Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\  
Data File : 5w57043.D  
Acq On : 23 Feb 2025 1:23 pm  
Operator : benk  
Sample : ic2187-5  
Misc : MS88386,V5W2187,,,,,1  
ALS Vial : 4 Sample Multiplier: 1
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Quant Time: Feb 23 23:58:42 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Sun Feb 23 23:58:28 2025
Response via : Initial Calibration



7.7.15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57044.D
 Acq On : 23 Feb 2025 2:13 pm
 Operator : benk
 Sample : icc2187-10
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 23:58:10 2025
 Quant Method : C:\msdchem\1\methods\M5w21487.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Thu Jan 09 19:02:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	413098	10.00	PPBV	-0.08
51) 1,4-DIFLUOROBENZENE	9.737	114	1865406	10.00	PPBV	-0.09
70) CHLOROBENZENE-D5	15.255	82	951897	10.00	PPBV	-0.09
109) BROMOCHLOROMETHANE (A)	7.571	128	413098	10.00	PPBV	#-0.08

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE	17.500	95	1245521	11.11	PPBV	-0.09
Spiked Amount	10.000	Range	65 - 128	Recovery	=	111.10%

Target Compounds						Qvalue
3) FREON 152A	3.484	65	284989	9.74	PPBV	100
4) CHLORODIFLUOROMETHANE	3.515	67	139343	10.48	PPBV	99
5) CHLOROTRIFLUOROETHENE	3.546	116	723740	10.68	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.588	85	1341516	10.20	PPBV	100
7) PROPYLENE	3.539	41	316659	9.57	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.686	65	1122459	8.39	PPBV	96
9) FREON 114	3.772	85	1467123	8.57	PPBV	97
10) CHLOROMETHANE	3.705	52	157309	8.73	PPBV	96
11) VINYL CHLORIDE	3.864	62	510230	8.37	PPBV	99
12) 1,3-BUTADIENE	3.955	54	347398	8.52	PPBV #	77
13) n-BUTANE	3.992	43	545183	6.38	PPBV	94
14) BROMOMETHANE	4.157	94	539832	8.24	PPBV	99
15) CHLOROETHANE	4.280	64	234614	8.52	PPBV	94
16) DICHLOROFLUOROMETHANE	4.341	67	1082586	8.11	PPBV	97
17) ACETONITRILE	4.537	41	298066	6.01	PPBV	98
18) ACROLEIN	4.628	56	199219	9.09	PPBV	96
19) FREON 123	4.653	83	1192377	8.27	PPBV	98
20) FREON 123A	4.696	117	739914	9.10	PPBV	95
21) TRICHLOROFLUOROMETHANE	4.855	101	1312566	9.06	PPBV	99
22) ISOPROPYL ALCOHOL	4.934	45	862682	11.27	PPBV	95
23) ACETONE	4.732	58	204844m	8.33	PPBV	
24) PENTANE	5.142	42	393409	10.17	PPBV	98
25) IODOMETHANE	5.326	142	1371629	12.02	PPBV	91
26) 1,1-DICHLOROETHYLENE	5.387	96	423214	11.13	PPBV	98
27) CARBON DISULFIDE	5.754	76	1146868	10.77	PPBV	97
28) ETHANOL	4.371	45	222556	7.49	PPBV	99
29) BROMOETHENE	4.537	106	546606	8.81	PPBV	98
30) ACRYLONITRILE	5.112	52	281808	12.21	PPBV	99
31) METHYLENE CHLORIDE	5.497	84	371000	9.91	PPBV	96
32) 3-CHLOROPROPENE	5.601	76	192770	11.77	PPBV	93
33) FREON 113	5.723	151	791987	11.21	PPBV	95
34) TRANS-1,2-DICHLOROETHYLENE	6.354	96	445605	11.17	PPBV	96
35) TERTIARY BUTYL ALCOHOL	5.448	59	795227	12.34	PPBV	94
36) METHYL TERTIARY BUTYL ALCOHOL	6.611	73	1153236	12.17	PPBV	96
37) TETRAHYDROFURAN	8.134	72	190628	12.66	PPBV	95
38) HEXANE	7.602	57	670615	12.46	PPBV	87
39) VINYL ACETATE	6.708	86	81223	13.34	PPBV #	89
40) 1,1-DICHLOROETHANE	6.549	63	808755	11.88	PPBV	97
41) METHYL ETHYL KETONE	6.953	72	196450	12.89	PPBV	98
42) cis-1,2-DICHLOROETHYLENE	7.400	96	480238	11.07	PPBV	97
43) DIISOPROPYL ETHER	7.614	59	203559	12.64	PPBV	79
44) ETHYL ACETATE	7.644	61	150784	13.11	PPBV #	98
45) METHYL ACRYLATE	7.632	55	824737	12.86	PPBV	99
46) CHLOROFORM	7.712	83	956693	10.52	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.562	57	775287	13.37	PPBV	98
48) 1,1,1-TRICHLOROETHANE	8.776	97	1022581	10.86	PPBV	98
49) CARBON TETRACHLORIDE	9.467	117	1168331	11.25	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57044.D
 Acq On : 23 Feb 2025 2:13 pm
 Operator : benk
 Sample : icc2187-10
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 23:58:10 2025

Quant Method : C:\msdchem\1\methods\M5w21487.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Thu Jan 09 19:02:22 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.507	62	682353	12.31	PPBV	99
52) BENZENE	9.296	78	1335454	11.09	PPBV	98
53) CYCLOHEXANE	9.596	84	534047	11.36	PPBV	92
54) 2,3-DIMETHYLPENTANE	9.902	71	267703	11.09	PPBV	89
55) TRICHLOROETHYLENE	10.550	95	650924	10.13	PPBV	99
56) 1,2-DICHLOROPROPANE	10.263	63	513610	10.61	PPBV	97
57) DIBROMOMETHANE	10.232	174	719827	10.40	PPBV	92
58) ETHYL ACRYLATE	10.312	55	1012078	12.75	PPBV	98
59) BROMODICHLOROMETHANE	10.507	83	1118109	9.84	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.587	57	2058243	11.88	PPBV	99
61) 1,4-DIOXANE	10.569	88	313431	11.01	PPBV	93
62) HEPTANE	10.936	43	711935	11.27	PPBV	95
63) METHYL METHACRYLATE	10.844	69	465788	12.23	PPBV	96
64) METHYL ISOBUTYL KETONE	11.688	58	420845	12.76	PPBV #	86
65) cis-1,3-DICHLOROPROPENE	11.633	75	884245	11.85	PPBV	96
66) TOLUENE	12.863	92	986876	11.33	PPBV	98
67) 1,3-DICHLOROPROPANE	12.912	76	791198	10.89	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.312	75	792692	10.99	PPBV	96
69) 1,1,2-TRICHLOROETHANE	12.514	83	539342	10.56	PPBV	99
71) 2-HEXANONE	13.260	58	604671	14.18	PPBV	85
72) ETHYL METHACRYLATE	13.297	69	812692	12.58	PPBV	96
73) TETRACHLOROETHYLENE	14.374	164	796897	11.87	PPBV	96
74) DIBROMOCHLOROMETHANE	13.413	129	1302612	11.07	PPBV	99
75) 1,2-DIBROMOETHANE	13.725	107	1074281	12.27	PPBV	99
76) OCTANE	14.239	43	1046099	12.54	PPBV	94
77) 1,1,1,2-TETRACHLOROETHANE	15.298	131	877251	11.08	PPBV	98
78) CHLOROBENZENE	15.316	112	1435429	10.96	PPBV	100
79) ETHYLBENZENE	15.867	91	2209176	12.74	PPBV	99
80) m,p-XYLENE	16.142	106	1723517	24.81	PPBV	98
81) o-XYLENE	16.809	106	844122	12.49	PPBV	98
82) STYRENE	16.662	104	1352513	13.73	PPBV	98
83) NONANE	17.225	43	1064012	12.39	PPBV	99
84) BROMOFORM	16.197	173	1388340	12.07	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	16.815	83	1394994	10.82	PPBV	97
87) 1,2,3-TRICHLOROPROPANE	17.004	75	974598	11.02	PPBV	99
88) ISOPROPYLBENZENE	17.726	105	2421563	11.71	PPBV	99
89) BROMOBENZENE	17.812	77	1169618	11.02	PPBV	98
90) 2-CHLOROTOLUENE	18.454	126	680387	11.91	PPBV	100
91) n-PROPYLBENZENE	18.546	120	698462	12.68	PPBV	100
92) 4-ETHYLTOLUENE	18.791	105	2476057	12.64	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	18.925	105	2057999	12.77	PPBV	99
94) ALPHA-METHYLSTYRENE	19.176	118	1098581	12.73	PPBV	99
95) tert-BUTYLBENZENE	19.531	134	491120	12.43	PPBV	95
96) 1,2,4-TRIMETHYLBENZENE	19.549	105	2165339	12.34	PPBV	99
97) m-DICHLOROBENZENE	19.739	146	1604478	11.00	PPBV	99
98) BENZYL CHLORIDE	19.733	91	1986640	11.57	PPBV	98
99) p-DICHLOROBENZENE	19.843	146	1592646	11.62	PPBV	100
100) sec-BUTYLBENZENE	19.941	134	591697	12.52	PPBV #	88
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	2131196	12.34	PPBV #	98
102) p-ISOPROPYLTOLUENE	20.192	134	681497	12.16	PPBV	93
103) o-DICHLOROBENZENE	20.333	146	1495974	11.24	PPBV	99
104) n-BUTYLBENZENE	20.785	134	683409	12.88	PPBV	88
105) HEXACHLOROETHANE	21.250	117	1085455	11.42	PPBV	94
106) HEXACHLOROBUTADIENE	23.196	225	1508614	11.77	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.061	180	1431916	11.59	PPBV	99
108) NAPHTHALENE	22.737	128	3223447	12.11	PPBV	100
110) TVHC as equiv Pentane	5.142	TIC	2730558	11.29	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57044.D
Acq On : 23 Feb 2025 2:13 pm
Operator : benk
Sample : icc2187-10
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 23:58:10 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration

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

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

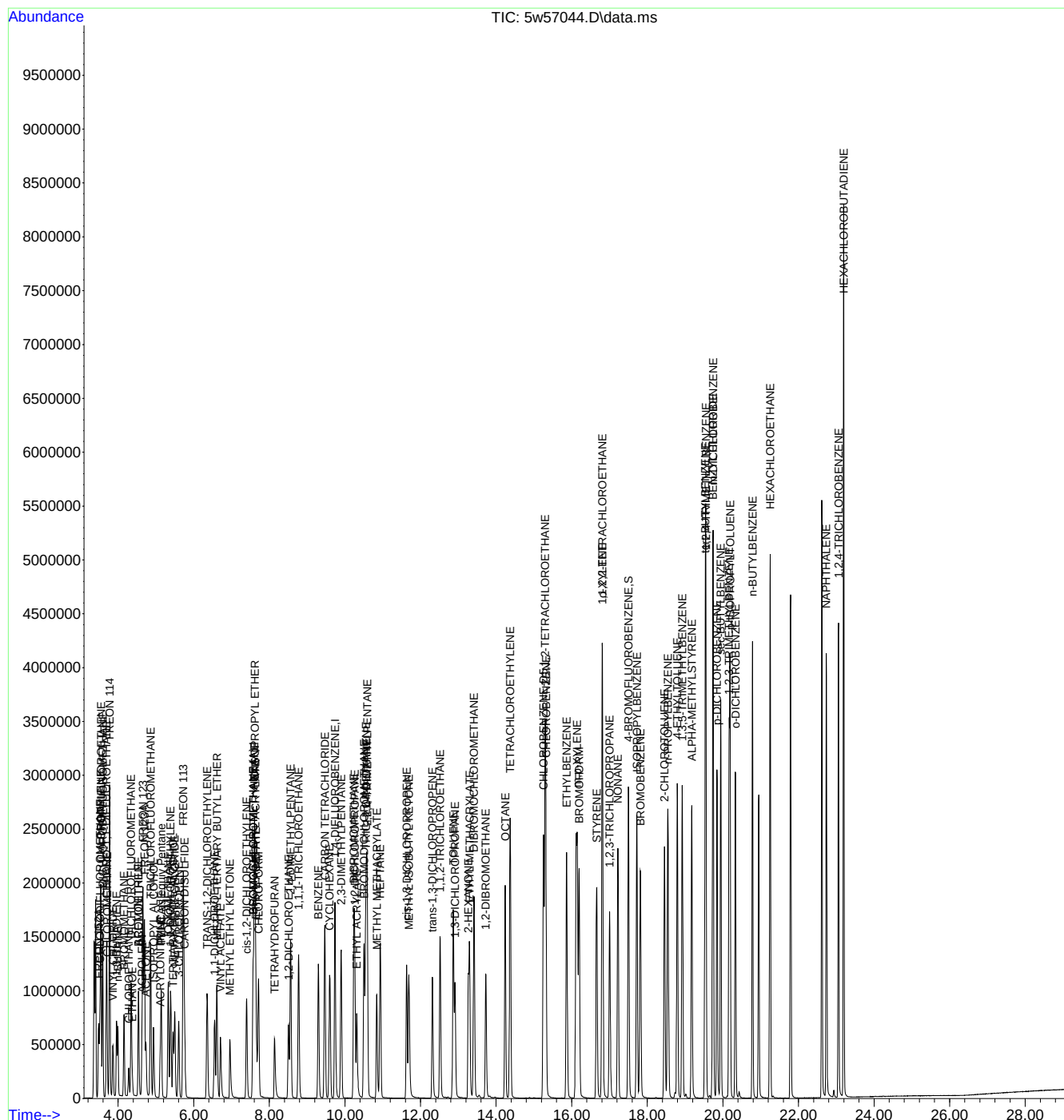
7.7.16

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57044.D
Acq On : 23 Feb 2025 2:13 pm
Operator : benk
Sample : icc2187-10
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 23:58:10 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

V5W2187-ICC2187

Method:

TO-15

Lab FileID:

5W57044.D

Analyst approved:

02/24/25 10:48 Benjamin Kim

Injection Time:

02/23/25 14:13

Supervisor approved:

02/24/25 16:39 Kanya Veerawat

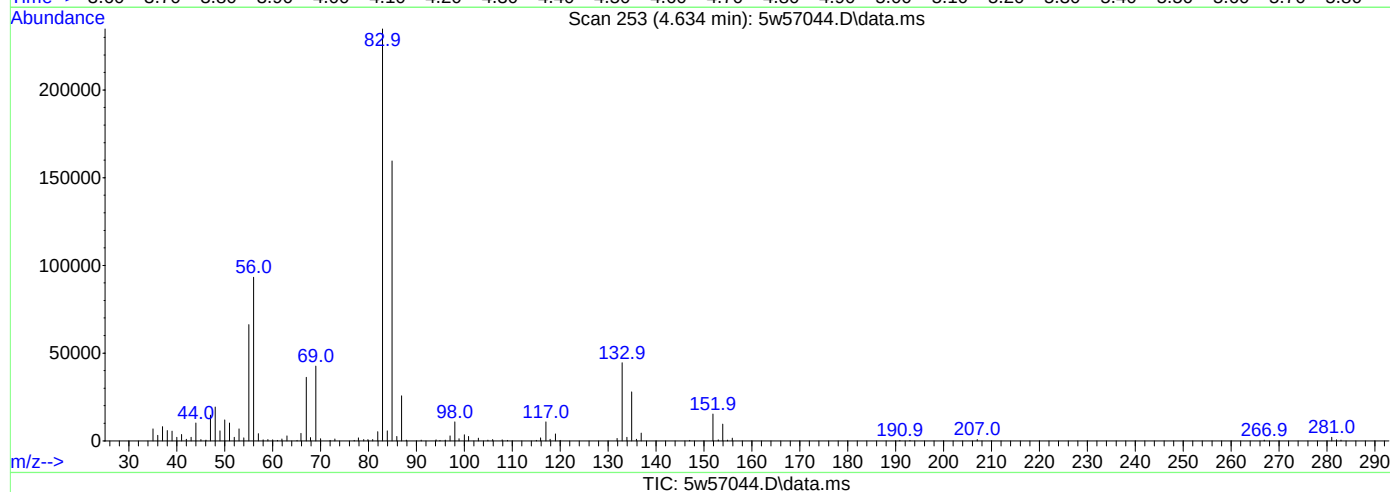
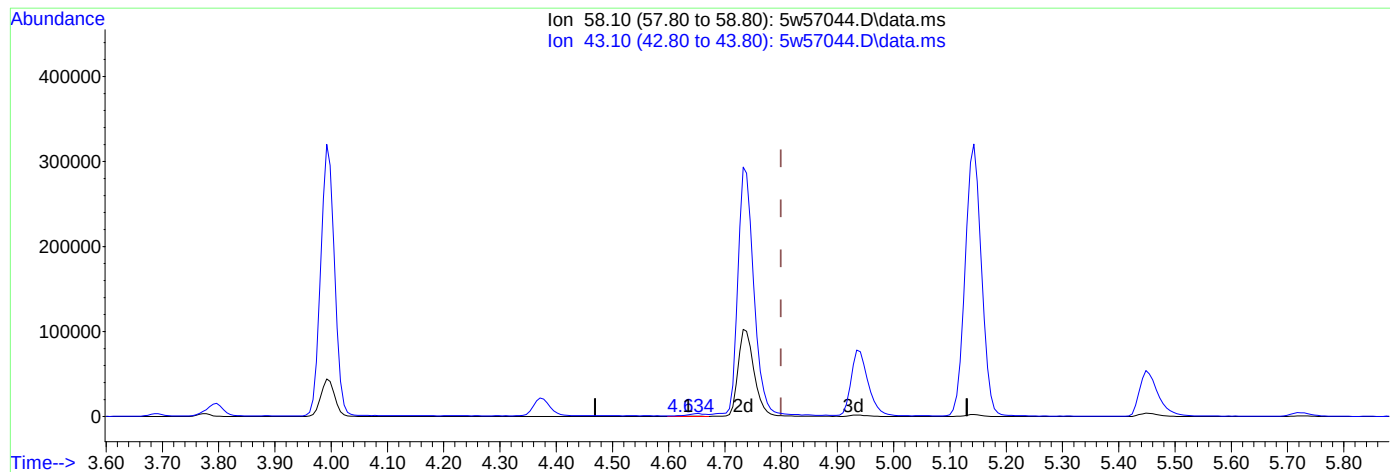
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetone (2-Propanone)	67-64-1		4.73	Poor instrument integration

7.7.16.1
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57044.D
Acq On : 23 Feb 2025 2:13 pm
Operator : benk
Sample : icc2187-10
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 23:52:38 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration



(23) ACETONE

4.634min (-0.165) 0.06PPBV

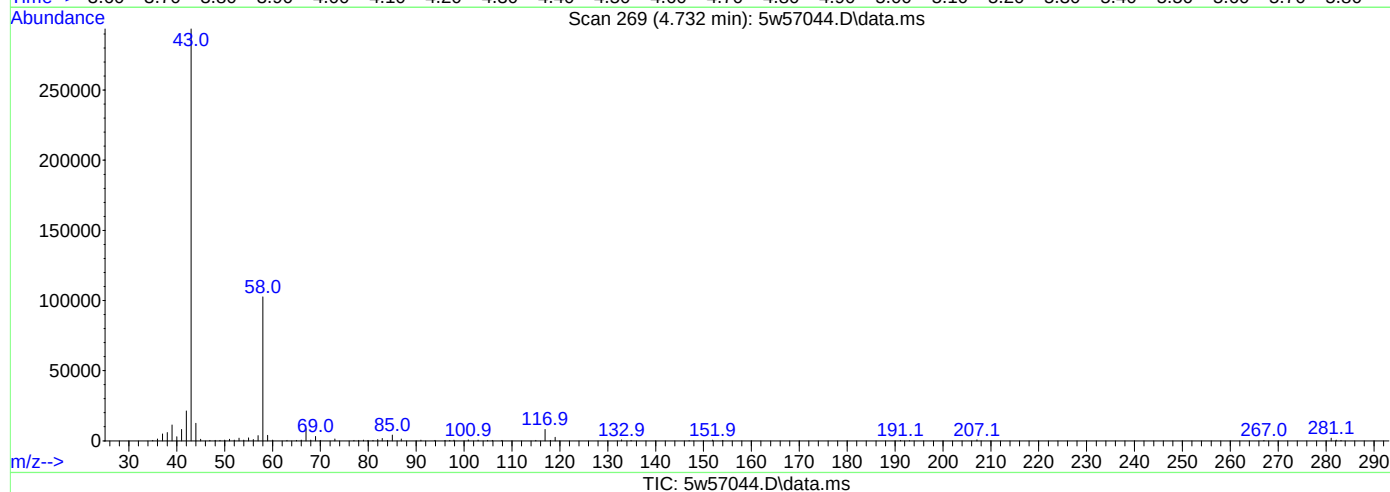
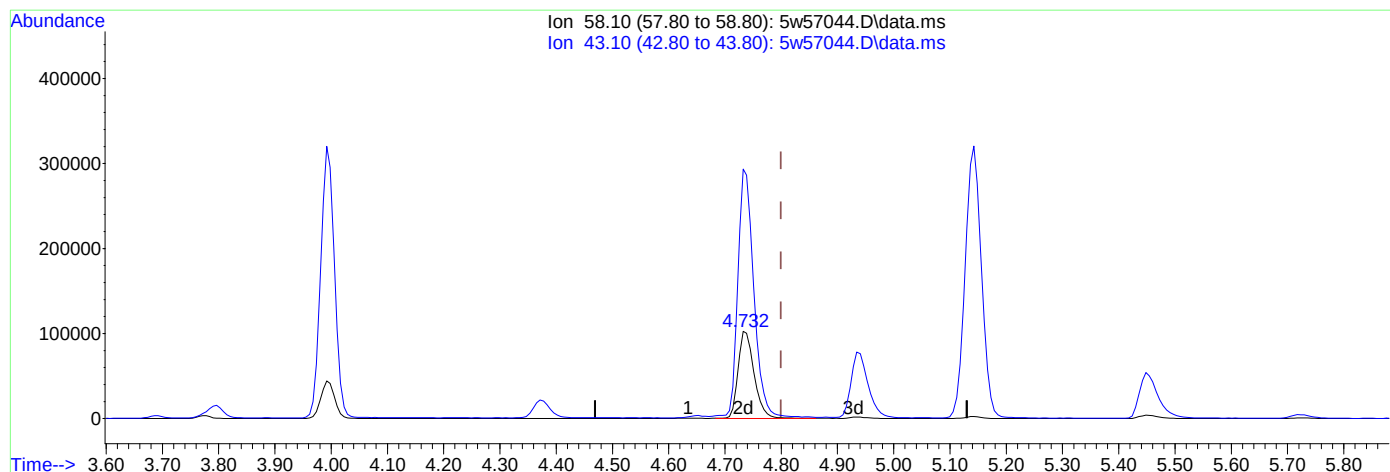
response 1466

Ion	Exp%	Act%
58.10	100	100
43.10	364.90	373.60
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57044.D
Acq On : 23 Feb 2025 2:13 pm
Operator : benk
Sample : icc2187-10
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 23:52:38 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Thu Jan 09 19:02:22 2025
Response via : Initial Calibration



(23) ACETONE

4.732min (-0.067) 8.33PPBV m

response 204844

Ion	Exp%	Act%
58.10	100	100
43.10	364.90	2.67#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57045.D
 Acq On : 23 Feb 2025 3:05 pm
 Operator : benk
 Sample : ic2187-20
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 00:03:43 2025

Quant Method : C:\msdchem\1\methods\M5w21487.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Sun Feb 23 23:58:53 2025

Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.577	128	411703	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.743	114	1814571	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.255	82	996598	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.577	128	411703	10.00	PPBV	# 0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 17.500 95 1222379 9.25 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 92.50%

Target Compounds

Qvalue

2) FREON 115	3.405	119	726670	13.23	PPBV	100
3) FREON 152A	3.484	65	573322	21.78	PPBV	100
4) CHLORODIFLUOROMETHANE	3.515	67	278790	21.40	PPBV	99
5) CHLOROTRIFLUOROETHENE	3.546	116	1435616	20.97	PPBV	99
6) DICHLORODIFLUOROMETHANE	3.588	85	2520645	19.91	PPBV	99
7) PROPYLENE	3.539	41	624206	21.56	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	3.692	65	2089392	19.58	PPBV	100
9) FREON 114	3.772	85	2676757	19.67	PPBV	99
10) CHLOROMETHANE	3.705	52	293324	18.88	PPBV	99
11) VINYL CHLORIDE	3.864	62	945015	18.83	PPBV	100
12) 1,3-BUTADIENE	3.955	54	634363	19.54	PPBV	99
13) n-BUTANE	3.992	43	986152	19.06	PPBV	98
14) BROMOMETHANE	4.157	94	1020628	19.75	PPBV	100
15) CHLOROETHANE	4.280	64	440934	19.39	PPBV	99
16) DICHLOROFLUOROMETHANE	4.347	67	2010050	19.44	PPBV	99
17) ACETONITRILE	4.537	41	549194	18.26	PPBV	99
18) ACROLEIN	4.628	56	358013	18.13	PPBV	98
19) FREON 123	4.653	83	2174850	19.02	PPBV	99
20) FREON 123A	4.696	117	1373932	20.16	PPBV	97
21) TRICHLOROFLUOROMETHANE	4.861	101	2442087	19.44	PPBV	99
22) ISOPROPYL ALCOHOL	4.940	45	1541677	19.02	PPBV	98
23) ACETONE	4.732	58	380718	18.52	PPBV #	1
24) PENTANE	5.142	42	761881	20.84	PPBV	100
25) IODOMETHANE	5.326	142	2678174	21.40	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.393	96	815207	20.48	PPBV	99
27) CARBON DISULFIDE	5.760	76	2175381	19.81	PPBV	100
28) ETHANOL	4.378	45	403814	18.13	PPBV	100
29) BROMOETHENE	4.537	106	1036983	20.00	PPBV	100
30) ACRYLONITRILE	5.112	52	547831	21.32	PPBV	100
31) METHYLENE CHLORIDE	5.503	84	709830	19.81	PPBV	99
32) 3-CHLOROPROPENE	5.601	76	372361	20.17	PPBV	99
33) FREON 113	5.723	151	1543659	20.62	PPBV	100
34) TRANS-1,2-DICHLOROETHY...	6.354	96	877465	20.64	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.448	59	1534706	18.98	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.610	73	2248652	21.11	PPBV	99
37) TETRAHYDROFURAN	8.134	72	373948	20.73	PPBV	100
38) HEXANE	7.608	57	1348155	21.80	PPBV	98
39) VINYL ACETATE	6.708	86	169297	22.31	PPBV	95
40) 1,1-DICHLOROETHANE	6.555	63	1566783	20.69	PPBV	99
41) METHYL ETHYL KETONE	6.953	72	390979	21.63	PPBV	97
42) cis-1,2-DICHLOROETHYLENE	7.400	96	959474	21.44	PPBV	98
43) DIISOPROPYL ETHER	7.614	59	407302	21.84	PPBV	98
44) ETHYL ACETATE	7.650	61	289177	20.93	PPBV #	99
45) METHYL ACRYLATE	7.632	55	1622595	21.40	PPBV	100
46) CHLOROFORM	7.718	83	1821912	20.45	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.568	57	1522462	21.20	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.776	97	1987727	21.03	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57045.D
 Acq On : 23 Feb 2025 3:05 pm
 Operator : benk
 Sample : ic2187-20
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 00:03:43 2025

Quant Method : C:\msdchem\1\methods\M5w21487.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Sun Feb 23 23:58:53 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) CARBON TETRACHLORIDE	9.467	117	2295034	21.30	PPBV	100
50) 1,2-DICHLOROETHANE	8.507	62	1333615	21.38	PPBV	99
52) BENZENE	9.302	78	2599880	22.17	PPBV	100
53) CYCLOHEXANE	9.602	84	1037124	21.84	PPBV	100
54) 2,3-DIMETHYLPENTANE	9.902	71	532349	22.23	PPBV	97
55) TRICHLOROETHYLENE	10.556	95	1276526	21.17	PPBV	100
56) 1,2-DICHLOROPROPANE	10.263	63	1007454	21.25	PPBV	100
57) DIBROMOMETHANE	10.238	174	1431227	21.76	PPBV	100
58) ETHYL ACRYLATE	10.312	55	1972105	21.68	PPBV	100
59) BROMODICHLOROMETHANE	10.507	83	2180632	21.14	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	10.587	57	3932924	21.14	PPBV	100
61) 1,4-DIOXANE	10.563	88	608834	21.08	PPBV #	31
62) HEPTANE	10.936	43	1393407	21.98	PPBV	100
63) METHYL METHACRYLATE	10.838	69	914105	22.26	PPBV	99
64) METHYL ISOBUTYL KETONE	11.688	58	826717	22.18	PPBV	99
65) cis-1,3-DICHLOROPROPENE	11.633	75	1767741	22.33	PPBV	85
66) TOLUENE	12.869	92	1945194	21.77	PPBV	99
67) 1,3-DICHLOROPROPANE	12.912	76	1535374	21.17	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.312	75	1601451	21.62	PPBV	100
69) 1,1,2-TRICHLOROETHANE	12.520	83	1060759	21.91	PPBV	99
71) 2-HEXANONE	13.260	58	1214871	20.30	PPBV	99
72) ETHYL METHACRYLATE	13.297	69	1605721	19.61	PPBV	100
73) TETRACHLOROETHYLENE	14.374	164	1565486	20.19	PPBV	100
74) DIBROMOCHLOROMETHANE	13.413	129	2553838	19.51	PPBV	99
75) 1,2-DIBROMOETHANE	13.731	107	2111995	20.44	PPBV	100
76) OCTANE	14.239	43	2068333	20.43	PPBV	99
77) 1,1,1,2-TETRACHLOROETHANE	15.298	131	1769860	20.81	PPBV	99
78) CHLOROBENZENE	15.316	112	2818506	20.10	PPBV	99
79) ETHYLBENZENE	15.867	91	4316322	20.26	PPBV	99
80) m,p-XYLENE	16.124	106	3434390	40.34	PPBV	97
81) o-XYLENE	16.815	106	1685570	20.58	PPBV	98
82) STYRENE	16.662	104	2697579	20.85	PPBV	100
83) NONANE	17.225	43	2090878	20.14	PPBV	99
84) BROMOFORM	16.197	173	2703038	19.68	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	16.815	83	2723791	20.01	PPBV	99
87) 1,2,3-TRICHLOROPROPANE	17.004	75	1892146	19.26	PPBV	99
88) ISOPROPYLBENZENE	17.726	105	4779722	19.73	PPBV	99
89) BROMOBENZENE	17.818	77	2294905	19.28	PPBV	100
90) 2-CHLOROTOLUENE	18.454	126	1358341	19.56	PPBV	100
91) n-PROPYLBENZENE	18.546	120	1381158	19.80	PPBV	100
92) 4-ETHYLTOLUENE	18.791	105	4832864	19.94	PPBV	99
93) 1,3,5-TRIMETHYLBENZENE	18.925	105	4029360	20.05	PPBV	99
94) ALPHA-METHYLSTYRENE	19.176	118	2218367	19.95	PPBV	100
95) tert-BUTYLBENZENE	19.537	134	1013953	21.59	PPBV	95
96) 1,2,4-TRIMETHYLBENZENE	19.549	105	4286767	20.60	PPBV	98
97) m-DICHLOROBENZENE	19.745	146	3188080	19.49	PPBV	99
98) BENZYL CHLORIDE	19.739	91	3959814	19.74	PPBV	99
99) p-DICHLOROBENZENE	19.849	146	3116096	19.93	PPBV	99
100) sec-BUTYLBENZENE	19.947	134	1164268	20.15	PPBV	97
101) 1,2,3-TRIMETHYLBENZENE	20.167	105	4252202	20.19	PPBV #	99
102) p-ISOPROPYLTOLUENE	20.192	134	1358997	20.37	PPBV	97
103) o-DICHLOROBENZENE	20.332	146	2938169	19.66	PPBV	100
104) n-BUTYLBENZENE	20.785	134	1392934	20.90	PPBV	95
105) HEXACHLOROETHANE	21.250	117	2169063	20.78	PPBV	100
106) HEXACHLOROBUTADIENE	23.196	225	3003680	20.20	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	23.061	180	2867527	20.67	PPBV	100
108) NAPHTHALENE	22.743	128	6135295	19.45	PPBV	98
110) TVHC as equiv Pentane	5.142	TIC	5171399	20.92	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57045.D
Acq On : 23 Feb 2025 3:05 pm
Operator : benk
Sample : ic2187-20
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 00:03:43 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Sun Feb 23 23:58:53 2025
Response via : Initial Calibration

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

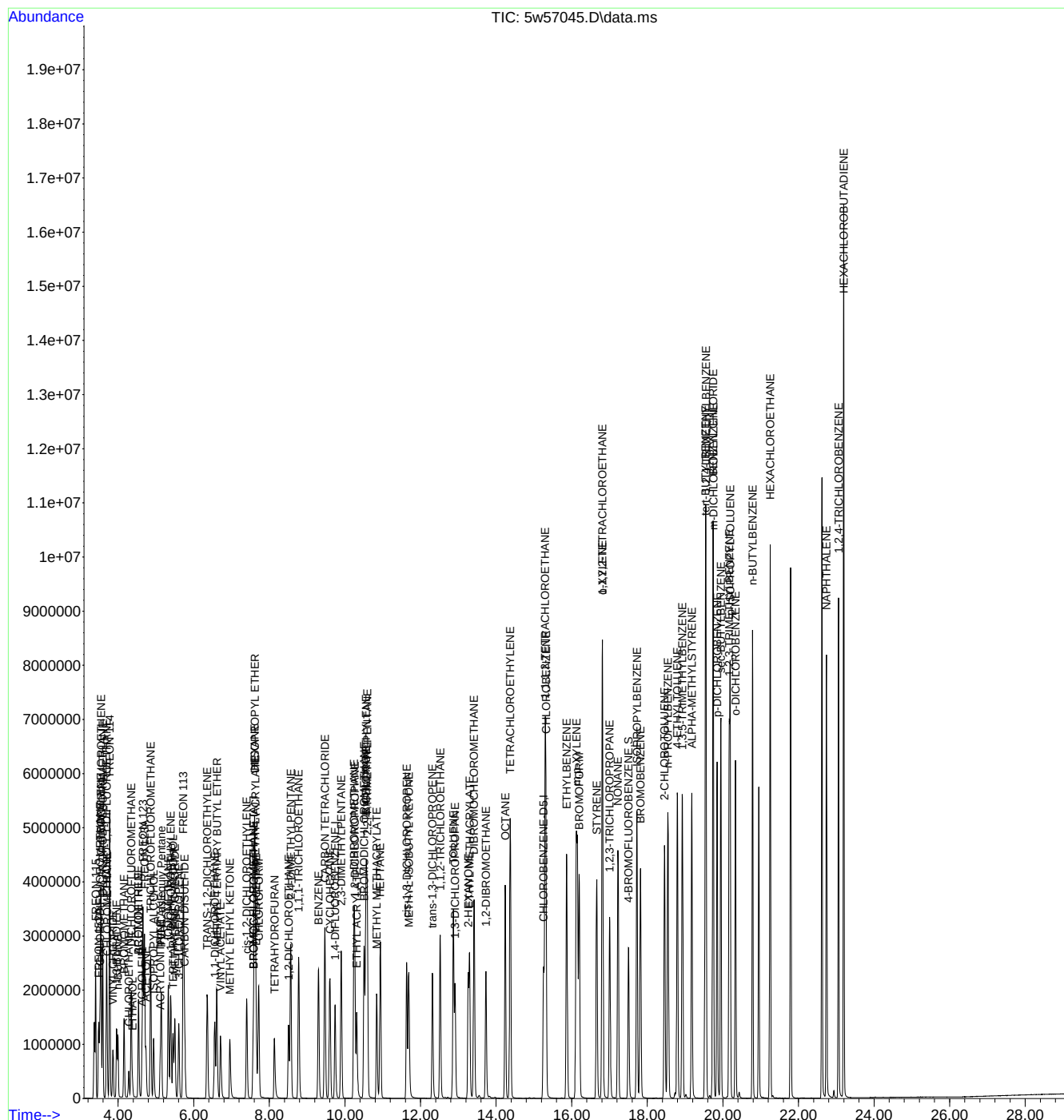
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.7.17

7

```
Data Path : C:\msdchem\1\data\  
Data File : 5w57045.D  
Acq On : 23 Feb 2025 3:05 pm  
Operator : benk  
Sample : ic2187-20  
Misc : MS88386,V5W2187,,,,,1  
ALS Vial : 4 Sample Multiplier: 1
```

Quant Time: Feb 24 00:03:43 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Sun Feb 23 23:58:53 2025
Response via : Initial Calibration



7.7.17

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57046.D
 Acq On : 23 Feb 2025 4:01 pm
 Operator : benk
 Sample : ic2187-40
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 00:05:10 2025

Quant Method : C:\msdchem\1\methods\M5w21487.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 00:04:05 2025

Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.577	128	404190	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.743	114	1726031	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.255	82	1068013	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.577	128	404190	10.00	PPBV	# 0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 17.506 95 1189122 8.62 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 86.20%

Target Compounds

						Qvalue
2) FREON 115	3.405	119	752312	15.99	PPBV	100
3) FREON 152A	3.484	65	1184943	45.58	PPBV	99
4) CHLORODIFLUOROMETHANE	3.515	67	560535	43.69	PPBV	99
5) CHLOROTRIFLUOROETHENE	3.546	116	2828912	42.11	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.588	85	4728888	38.83	PPBV	98
7) PROPYLENE	3.540	41	1254530	44.29	PPBV	97
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.692	65	3748253	36.71	PPBV	99
9) FREON 114	3.778	85	4526077	35.12	PPBV	97
10) CHLOROMETHANE	3.711	52	522119	35.32	PPBV	97
11) VINYL CHLORIDE	3.864	62	1697312	35.47	PPBV	100
12) 1,3-BUTADIENE	3.962	54	1124494	36.44	PPBV	99
13) n-BUTANE	3.992	43	1723088	35.30	PPBV	98
14) BROMOMETHANE	4.157	94	1887001	37.95	PPBV	100
15) CHLOROETHANE	4.280	64	822355	37.69	PPBV	99
16) DICHLOROFLUOROMETHANE	4.347	67	3632341	36.80	PPBV	99
17) ACETONITRILE	4.543	41	968609	33.89	PPBV	99
18) ACROLEIN	4.635	56	626314	33.85	PPBV	96
19) FREON 123	4.653	83	3822927	35.27	PPBV	99
20) FREON 123A	4.696	117	2478664	38.11	PPBV	93
21) TRICHLOROFLUOROMETHANE	4.861	101	4408225	36.76	PPBV	99
22) ISOPROPYL ALCOHOL	4.940	45	2830929	36.84	PPBV	99
23) ACETONE	4.732	58	679051	34.82	PPBV #	1
24) PENTANE	5.142	42	1508020	42.64	PPBV	99
25) IODOMETHANE	5.332	142	5192724	42.65	PPBV	98
26) 1,1-DICHLOROETHYLENE	5.393	96	1581552	41.06	PPBV	98
27) CARBON DISULFIDE	5.760	76	4130978	39.17	PPBV	99
28) ETHANOL	4.378	45	696976	33.10	PPBV	100
29) BROMOETHENE	4.543	106	1920668	38.45	PPBV	100
30) ACRYLONITRILE	5.118	52	1094249	43.82	PPBV	100
31) METHYLENE CHLORIDE	5.503	84	1363309	39.50	PPBV	100
32) 3-CHLOROPROPENE	5.607	76	733801	41.03	PPBV	98
33) FREON 113	5.730	151	3025144	41.54	PPBV	99
34) TRANS-1,2-DICHLOROETHYLENE	6.360	96	1763022	42.48	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.448	59	2847716	36.38	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.604	73	4368746	42.09	PPBV	100
37) TETRAHYDROFURAN	8.128	72	748114	42.43	PPBV	99
38) HEXANE	7.608	57	2745426	45.08	PPBV	92
39) VINYL ACETATE	6.715	86	344953	45.21	PPBV #	92
40) 1,1-DICHLOROETHANE	6.556	63	3071552	41.78	PPBV	98
41) METHYL ETHYL KETONE	6.953	72	776355	43.73	PPBV	94
42) cis-1,2-DICHLOROETHYLENE	7.406	96	1910198	43.46	PPBV	98
43) DIISOPROPYL ETHER	7.614	59	832161	45.28	PPBV #	89
44) ETHYL ACETATE	7.651	61	575799	42.89	PPBV #	97
45) METHYL ACRYLATE	7.638	55	3209849	43.26	PPBV	98
46) CHLOROFORM	7.724	83	3450902	40.17	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.568	57	3007363	42.92	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.782	97	3870427	42.08	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57046.D
 Acq On : 23 Feb 2025 4:01 pm
 Operator : benk
 Sample : ic2187-40
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 00:05:10 2025

Quant Method : C:\msdchem\1\methods\M5w21487.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 00:04:05 2025

Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49)	CARBON TETRACHLORIDE	9.474	117	4487726	42.62	PPBV	99
50)	1,2-DICHLOROETHANE	8.513	62	2645312	43.48	PPBV	99
52)	BENZENE	9.302	78	5071177	45.35	PPBV	99
53)	CYCLOHEXANE	9.602	84	2030605	44.93	PPBV	100
54)	2,3-DIMETHYLPENTANE	9.908	71	1068591	46.46	PPBV	96
55)	TRICHLOROETHYLENE	10.563	95	2524025	43.89	PPBV	100
56)	1,2-DICHLOROPROPANE	10.269	63	1990516	43.96	PPBV	100
57)	DIBROMOMETHANE	10.245	174	2868586	45.30	PPBV	99
58)	ETHYL ACRYLATE	10.318	55	3833708	44.11	PPBV	99
59)	BROMODICHLOROMETHANE	10.514	83	4256118	43.28	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	10.593	57	7467393	42.50	PPBV	98
61)	1,4-DIOXANE	10.563	88	1178658	42.84	PPBV #	7
62)	HEPTANE	10.942	43	2777514	46.08	PPBV	99
63)	METHYL METHACRYLATE	10.844	69	1778048	45.20	PPBV	95
64)	METHYL ISOBUTYL KETONE	11.688	58	1647090	46.04	PPBV	97
65)	cis-1,3-DICHLOROPROPENE	11.639	75	3565998	46.68	PPBV	87
66)	TOLUENE	12.869	92	3885262	45.31	PPBV	97
67)	1,3-DICHLOROPROPANE	12.918	76	2974753	43.14	PPBV #	99
68)	trans-1,3-DICHLOROPROPENE	12.318	75	3233469	45.00	PPBV	98
69)	1,1,2-TRICHLOROETHANE	12.520	83	2101982	45.28	PPBV	99
71)	2-HEXANONE	13.261	58	2463326	38.96	PPBV	96
72)	ETHYL METHACRYLATE	13.297	69	3182619	37.09	PPBV	98
73)	TETRACHLOROETHYLENE	14.374	164	3106757	38.33	PPBV	100
74)	DIBROMOCHLOROMETHANE	13.420	129	5015168	36.62	PPBV	99
75)	1,2-DIBROMOETHANE	13.738	107	4165788	38.53	PPBV	99
76)	OCTANE	14.246	43	4139343	38.96	PPBV	97
77)	1,1,1,2-TETRACHLOROETHANE	15.304	131	3609447	40.10	PPBV	99
78)	CHLOROBENZENE	15.316	112	5571119	37.96	PPBV	98
79)	ETHYLBENZENE	15.873	91	8401668	37.79	PPBV	97
80)	m,p-XYLENE	16.154	106	6911071	77.23	PPBV	92
81)	o-XYLENE	16.815	106	3391991	39.38	PPBV	94
82)	STYRENE	16.662	104	5418598	39.77	PPBV	100
83)	NONANE	17.231	43	4125976	38.05	PPBV	97
84)	BROMOFORM	16.203	173	5207096	36.35	PPBV	98
86)	1,1,2,2-TETRACHLOROETHANE	16.821	83	5255226	37.04	PPBV	98
87)	1,2,3-TRICHLOROPROPANE	17.011	75	3732113	36.57	PPBV	99
88)	ISOPROPYLBENZENE	17.733	105	9388366	37.02	PPBV	97
89)	BROMOBENZENE	17.824	77	4510279	36.24	PPBV	100
90)	2-CHLOROTOLUENE	18.461	126	2775110	37.93	PPBV	99
91)	n-PROPYLBENZENE	18.552	120	2795044	38.23	PPBV	99
92)	4-ETHYLTOLUENE	18.797	105	9423082	37.34	PPBV	96
93)	1,3,5-TRIMETHYLBENZENE	18.932	105	7886323	37.63	PPBV	97
94)	ALPHA-METHYLSTYRENE	19.176	118	4521132	38.46	PPBV	100
95)	tert-BUTYLBENZENE	19.537	134	2032316	40.64	PPBV #	86
96)	1,2,4-TRIMETHYLBENZENE	19.556	105	7907351	36.22	PPBV	95
97)	m-DICHLOROBENZENE	19.751	146	6196619	36.11	PPBV	98
98)	BENZYL CHLORIDE	19.739	91	7431085	35.17	PPBV	97
99)	p-DICHLOROBENZENE	19.855	146	6188411	38.03	PPBV	98
100)	sec-BUTYLBENZENE	19.947	134	2348203	38.91	PPBV #	83
101)	1,2,3-TRIMETHYLBENZENE	20.167	105	8271670	37.35	PPBV #	96
102)	p-ISOPROPYLTOLUENE	20.198	134	2688313	38.32	PPBV #	87
103)	o-DICHLOROBENZENE	20.339	146	5882444	37.75	PPBV	98
104)	n-BUTYLBENZENE	20.791	134	2885595	40.84	PPBV #	81
105)	HEXACHLOROETHANE	21.250	117	4289980	39.07	PPBV	99
106)	HEXACHLOROBTADIENE	23.196	225	5484819	35.17	PPBV	98
107)	1,2,4-TRICHLOROBENZENE	23.061	180	5631208	38.55	PPBV	99
108)	NAPHTHALENE	22.743	128	11179165	34.30	PPBV	95
110)	TVHC as equiv Pentane	5.142	TIC	10225122	42.70	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57046.D
Acq On : 23 Feb 2025 4:01 pm
Operator : benk
Sample : ic2187-40
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 00:05:10 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:04:05 2025
Response via : Initial Calibration

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

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

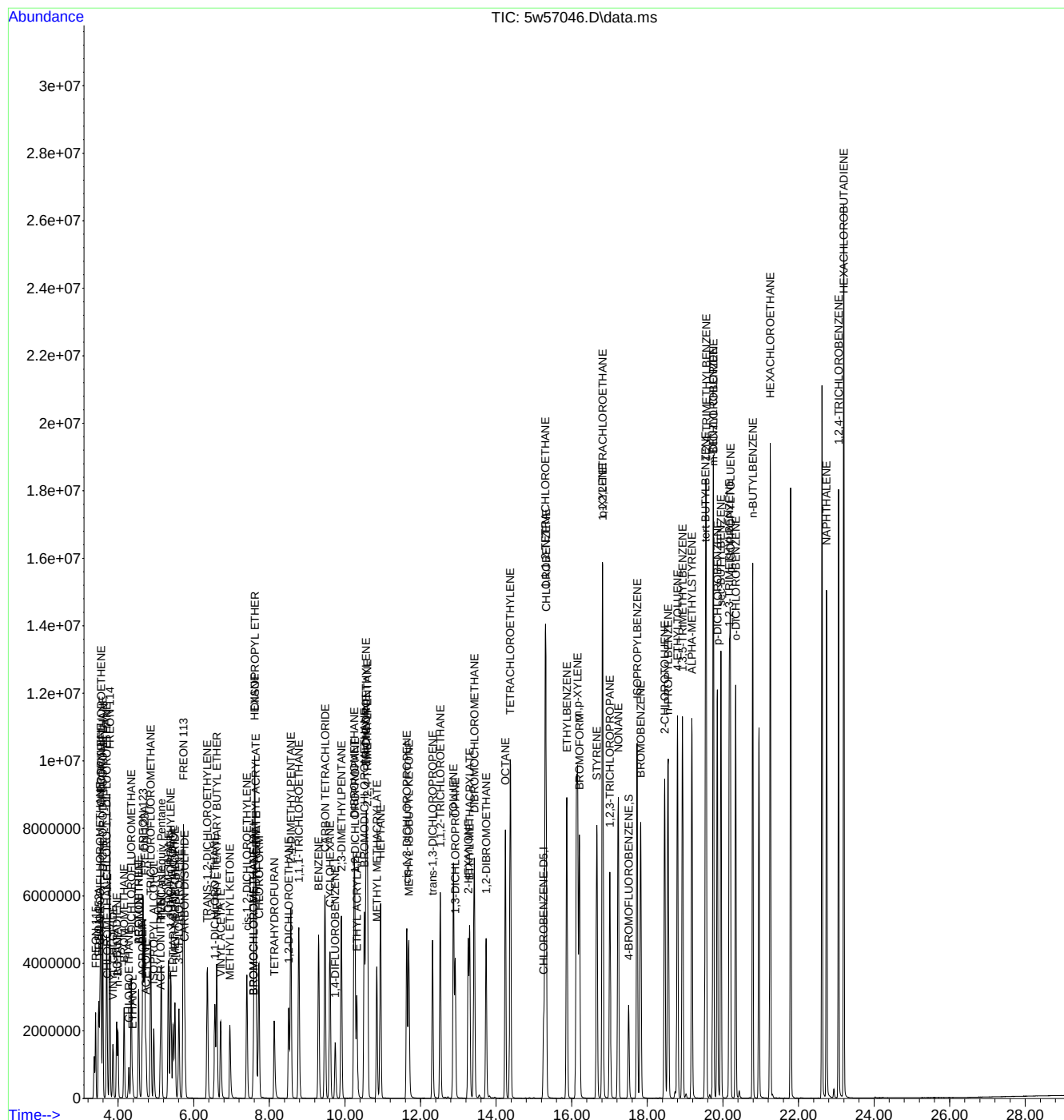
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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57046.D
Acq On : 23 Feb 2025 4:01 pm
Operator : benk
Sample : ic2187-40
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 00:05:10 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:04:05 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57047.D
 Acq On : 23 Feb 2025 4:59 pm
 Operator : benk
 Sample : ic2187-50
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 00:06:24 2025

Quant Method : C:\msdchem\1\methods\M5w21487.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 00:05:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.577	128	421126	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.743	114	1754221	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.261	82	1144540	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.577	128	421126	10.00	PPBV	# 0.00

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 17.506 95 1221668 8.56 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 85.60%

Target Compounds

						Qvalue
2) FREON 115	3.399	119	607240	14.68	PPBV	100
3) FREON 152A	3.485	65	1530142	55.59	PPBV	98
4) CHLORODIFLUOROMETHANE	3.515	67	710973	52.78	PPBV	99
5) CHLOROTRIFLUOROETHENE	3.540	116	3568198	50.95	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.589	85	5845157	47.06	PPBV	97
7) PROPYLENE	3.534	41	1576068	53.20	PPBV	97
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.686	65	4467013	43.45	PPBV	98
9) FREON 114	3.772	85	5328413	41.79	PPBV	96
10) CHLOROMETHANE	3.705	52	620829	41.89	PPBV	98
11) VINYL CHLORIDE	3.858	62	2055675	42.71	PPBV	99
12) 1,3-BUTADIENE	3.956	54	1358832	43.98	PPBV	99
13) n-BUTANE	3.992	43	2075837	42.77	PPBV	98
14) BROMOMETHANE	4.158	94	2283783	45.17	PPBV	100
15) CHLOROETHANE	4.280	64	999154	45.01	PPBV	100
16) DICHLOROFLUOROMETHANE	4.341	67	4373016	43.98	PPBV	98
17) ACETONITRILE	4.543	41	1155932	40.45	PPBV	99
18) ACROLEIN	4.629	56	746040	40.67	PPBV	95
19) FREON 123	4.653	83	4539966	41.96	PPBV	98
20) FREON 123A	4.696	117	2987005	45.61	PPBV	91
21) TRICHLOROFLUOROMETHANE	4.855	101	5336123	44.18	PPBV	98
22) ISOPROPYL ALCOHOL	4.941	45	3055919	39.46	PPBV	100
23) ACETONE	4.733	58	817732	41.86	PPBV #	1
24) PENTANE	5.142	42	1918952	52.36	PPBV	98
25) IODOMETHANE	5.326	142	6502521	51.66	PPBV	98
26) 1,1-DICHLOROETHYLENE	5.393	96	2001127	50.37	PPBV	98
27) CARBON DISULFIDE	5.760	76	5135256	47.64	PPBV	99
28) ETHANOL	4.378	45	857260	41.01	PPBV	99
29) BROMOETHENE	4.537	106	2331968	45.88	PPBV	99
30) ACRYLONITRILE	5.118	52	1407176	54.14	PPBV	100
31) METHYLENE CHLORIDE	5.503	84	1717656	48.49	PPBV	99
32) 3-CHLOROPROPENE	5.601	76	931444	50.28	PPBV	97
33) FREON 113	5.724	151	3823573	50.65	PPBV	99
34) TRANS-1,2-DICHLOROETHYLENE	6.354	96	2249332	51.87	PPBV	98
35) TERTIARY BUTYL ALCOHOL	5.448	59	3607929	45.16	PPBV	99
36) METHYL TERTIARY BUTYL ...	6.605	73	5477314	50.98	PPBV	99
37) TETRAHYDROFURAN	8.128	72	952261	51.70	PPBV	100
38) HEXANE	7.608	57	3434141	53.54	PPBV	90
39) VINYL ACETATE	6.715	86	443169	54.56	PPBV #	88
40) 1,1-DICHLOROETHANE	6.556	63	3877054	50.91	PPBV	98
41) METHYL ETHYL KETONE	6.953	72	990295	53.38	PPBV	91
42) cis-1,2-DICHLOROETHYLENE	7.406	96	2423484	52.71	PPBV	98
43) DIISOPROPYL ETHER	7.614	59	1044272	53.89	PPBV #	84
44) ETHYL ACETATE	7.651	61	729093	52.22	PPBV #	97
45) METHYL ACRYLATE	7.638	55	4012874	51.89	PPBV	98
46) CHLOROFORM	7.724	83	4315334	49.07	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.568	57	3812340	52.31	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.783	97	4875526	51.21	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57047.D
 Acq On : 23 Feb 2025 4:59 pm
 Operator : benk
 Sample : ic2187-50
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 00:06:24 2025

Quant Method : C:\msdchem\1\methods\M5w21487.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 00:05:34 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) CARBON TETRACHLORIDE	9.468	117	5625041	51.44	PPBV	99
50) 1,2-DICHLOROETHANE	8.513	62	3359033	53.02	PPBV	98
52) BENZENE	9.303	78	6365739	55.59	PPBV	99
53) CYCLOHEXANE	9.602	84	2563223	55.38	PPBV	100
54) 2,3-DIMETHYLPENTANE	9.908	71	1367095	57.40	PPBV	95
55) TRICHLOROETHYLENE	10.563	95	3166490	53.58	PPBV	99
56) 1,2-DICHLOROPROPANE	10.269	63	2500565	53.71	PPBV	99
57) DIBROMOMETHANE	10.245	174	3635908	55.41	PPBV	99
58) ETHYL ACRYLATE	10.318	55	4793445	53.85	PPBV	99
59) BROMODICHLOROMETHANE	10.514	83	5323464	52.86	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.593	57	9200676	51.73	PPBV	98
61) 1,4-DIOXANE	10.563	88	1522381	54.18	PPBV #	2
62) HEPTANE	10.942	43	3483155	56.19	PPBV	99
63) METHYL METHACRYLATE	10.844	69	2261492	56.05	PPBV	96
64) METHYL ISOBUTYL KETONE	11.688	58	2092515	56.62	PPBV	95
65) cis-1,3-DICHLOROPROPENE	11.639	75	4542055	57.20	PPBV	88
66) TOLUENE	12.869	92	4924645	55.55	PPBV	96
67) 1,3-DICHLOROPROPANE	12.918	76	3732447	53.03	PPBV #	99
68) trans-1,3-DICHLOROPROPENE	12.319	75	4101807	54.75	PPBV	97
69) 1,1,2-TRICHLOROETHANE	12.520	83	2656117	55.49	PPBV	99
71) 2-HEXANONE	13.261	58	3134380	47.21	PPBV	94
72) ETHYL METHACRYLATE	13.304	69	4013440	44.96	PPBV	97
73) TETRACHLOROETHYLENE	14.380	164	3913440	46.46	PPBV	99
74) DIBROMOCHLOROMETHANE	13.420	129	6297098	44.33	PPBV	99
75) 1,2-DIBROMOETHANE	13.738	107	5240530	46.68	PPBV	99
76) OCTANE	14.246	43	5157647	46.54	PPBV	96
77) 1,1,1,2-TETRACHLOROETHANE	15.304	131	4544666	47.97	PPBV	99
78) CHLOROBENZENE	15.322	112	6938072	45.49	PPBV	98
79) ETHYLBENZENE	15.873	91	10423410	45.35	PPBV	95
80) m,p-XYLENE	16.154	106	8711049	93.11	PPBV	89
81) o-XYLENE	16.815	106	4198275	46.61	PPBV	93
82) STYRENE	16.668	104	6898512	48.41	PPBV	99
83) NONANE	17.231	43	5054510	44.92	PPBV	96
84) BROMOFORM	16.209	173	6510495	44.07	PPBV	97
86) 1,1,2,2-TETRACHLOROETHANE	16.821	83	6366894	43.51	PPBV	98
87) 1,2,3-TRICHLOROPROPANE	17.011	75	4686431	44.37	PPBV	98
88) ISOPROPYLBENZENE	17.733	105	11622820	44.17	PPBV	96
89) BROMOBENZENE	17.824	77	5653991	43.80	PPBV	99
90) 2-CHLOROTOLUENE	18.461	126	3526523	45.88	PPBV	99
91) n-PROPYLBENZENE	18.552	120	3530397	46.20	PPBV	99
92) 4-ETHYLTOLUENE	18.797	105	11562337	44.35	PPBV	94
93) 1,3,5-TRIMETHYLBENZENE	18.938	105	9665262	44.56	PPBV	95
94) ALPHA-METHYLSTYRENE	19.183	118	5679393	45.95	PPBV	100
95) tert-BUTYLBENZENE	19.544	134	2500507	47.56	PPBV #	82
96) 1,2,4-TRIMETHYLBENZENE	19.562	105	9395293	42.02	PPBV	94
97) m-DICHLOROBENZENE	19.752	146	7437297	41.82	PPBV	98
98) BENZYL CHLORIDE	19.745	91	8762888	40.25	PPBV	96
99) p-DICHLOROBENZENE	19.856	146	7638161	45.24	PPBV	97
100) sec-BUTYLBENZENE	19.947	134	2945820	46.81	PPBV #	75
101) 1,2,3-TRIMETHYLBENZENE	20.174	105	9996355	43.51	PPBV #	95
102) p-ISOPROPYLTOLUENE	20.198	134	3273018	44.80	PPBV #	83
103) o-DICHLOROBENZENE	20.339	146	7310802	45.11	PPBV	97
104) n-BUTYLBENZENE	20.792	134	3578691	47.92	PPBV #	75
105) HEXACHLOROETHANE	21.250	117	5151907	45.05	PPBV	97
106) HEXACHLOROBTADIENE	23.196	225	6322763	39.68	PPBV	98
107) 1,2,4-TRICHLOROBENZENE	23.061	180	7042994	46.33	PPBV	98
108) NAPHTHALENE	22.749	128	13445963	40.66	PPBV	92
110) TVHC as equiv Pentane	5.142	TIC	13046401	52.56	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57047.D
Acq On : 23 Feb 2025 4:59 pm
Operator : benk
Sample : ic2187-50
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 00:06:24 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:05:34 2025
Response via : Initial Calibration

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

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

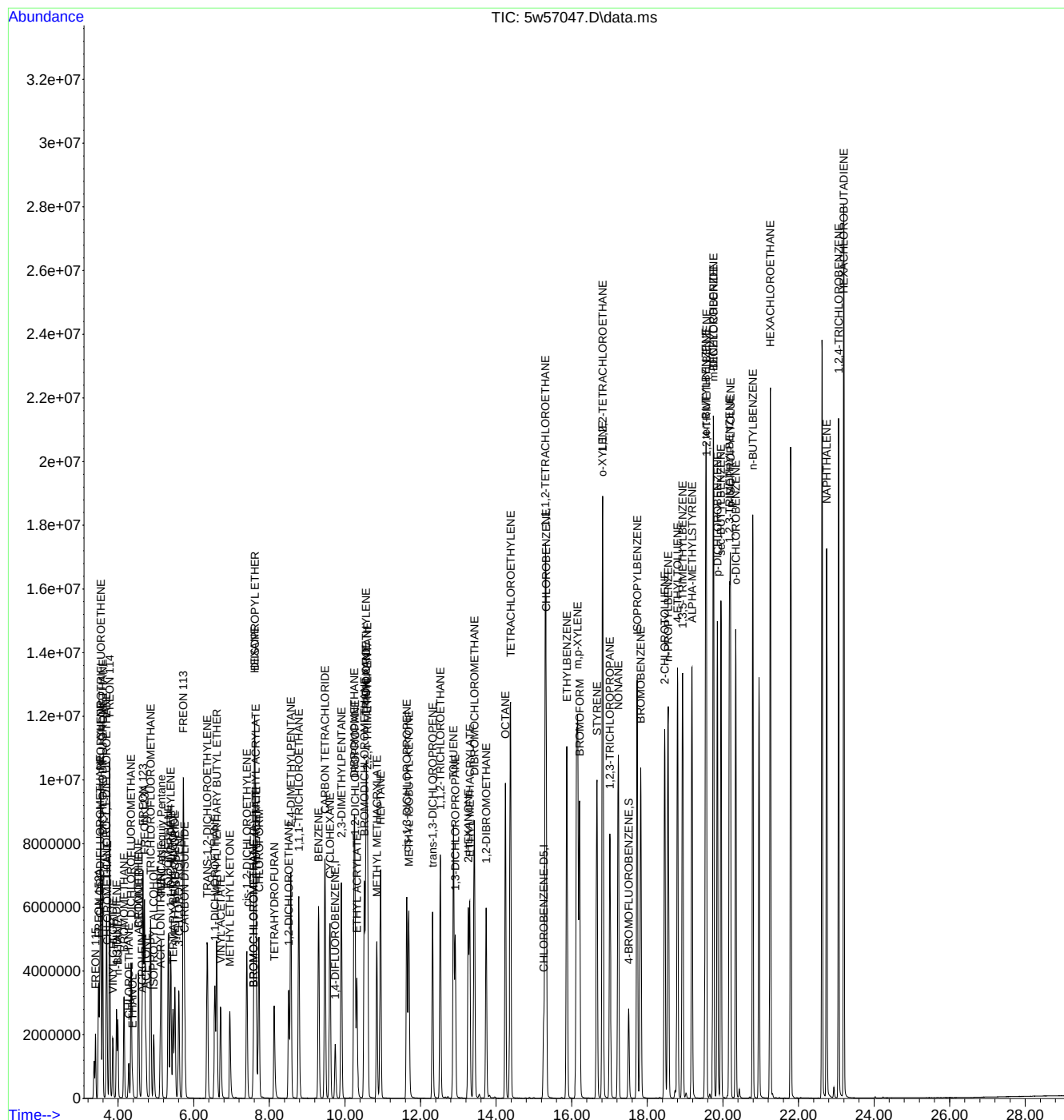
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(QT Reviewed)

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Data Path : C:\msdchem\1\data\  
Data File : 5w57047.D  
Acq On : 23 Feb 2025 4:59 pm  
Operator : benk  
Sample : ic2187-50  
Misc : MS88386,V5W2187,,,,,1  
ALS Vial : 4 Sample Multiplier: 1
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Quant Time: Feb 24 00:06:24 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 00:05:34 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57059.D
Acq On : 24 Feb 2025 7:51 am
Operator : benk
Sample : ic2187-0.5
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 14:20:22 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 02:35:43 2025
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.565	128	465258	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.731	114	2131079	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	963468	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.565	128	465738	10.00	PPBV	# 0.00
System Monitoring Compounds						
85) 4-BROMOFLUOROBENZENE	17.500	95	1343112	10.82	PPBV	0.00
Spiked Amount 10.000	Range 65 - 128		Recovery	=	108.20%	
Target Compounds						
						Qvalue
3) FREON 152A	3.484	65	19159	0.54	PPBV	99
4) CHLORODIFLUOROMETHANE	3.515	67	9462	0.59	PPBV	98
5) CHLOROTRIFLUOROETHENE	3.539	116	47467	0.60	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.588	85	91898	0.64	PPBV	99
7) PROPYLENE	3.539	41	22486	0.56	PPBV	97
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.686	65	80626	0.66	PPBV	97
9) FREON 114	3.772	85	108537	0.71	PPBV	97
10) CHLOROMETHANE	3.705	52	11393	0.62	PPBV	97
11) VINYL CHLORIDE	3.864	62	36731	0.64	PPBV	100
12) 1,3-BUTADIENE	3.955	54	26022	0.71	PPBV	97
13) n-BUTANE	3.992	43	40178	0.67	PPBV	# 95
14) BROMOMETHANE	4.157	94	43062	0.71	PPBV	95
15) CHLOROETHANE	4.274	64	17252	0.62	PPBV	95
16) DICHLOROFLUOROMETHANE	4.347	67	73321	0.62	PPBV	98
17) ACETONITRILE	4.561	41	20619	0.60	PPBV	# 89
18) ACROLEIN	4.653	56	12024	0.61	PPBV	84
19) FREON 123	4.653	83	77472	0.59	PPBV	100
20) FREON 123A	4.696	117	48563	0.60	PPBV	93
21) TRICHLOROFLUOROMETHANE	4.861	101	90366	0.64	PPBV	99
22) ISOPROPYL ALCOHOL	4.977	45	61031	0.65	PPBV	93
23) ACETONE	4.769	58	13312	0.55	PPBV	# 1
24) PENTANE	5.148	42	27562	0.64	PPBV	96
25) IODOMETHANE	5.326	142	102390	0.72	PPBV	98
26) 1,1-DICHLOROETHYLENE	5.393	96	30947	0.66	PPBV	98
27) CARBON DISULFIDE	5.760	76	84963	0.67	PPBV	99
28) ETHANOL	4.396	45	16144	0.56	PPBV	92
29) BROMOETHENE	4.537	106	33033	0.55	PPBV	99
30) ACRYLONITRILE	5.136	52	17131	0.46	PPBV	99
31) METHYLENE CHLORIDE	5.503	84	30141	0.69	PPBV	97
32) 3-CHLOROPROPENE	5.607	76	13341	0.60	PPBV	92
33) FREON 113	5.730	151	59925	0.69	PPBV	98
34) TRANS-1,2-DICHLOROETHYLENE	6.360	96	31601	0.62	PPBV	100
35) TERTIARY BUTYL ALCOHOL	5.509	59	55054m	0.58	PPBV	
36) METHYL TERTIARY BUTYL ETHER	6.647	73	83013	0.62	PPBV	96
37) TETRAHYDROFURAN	8.207	72	12087	0.67	PPBV	98
38) HEXANE	7.608	57	44492	0.57	PPBV	95
39) VINYL ACETATE	6.739	86	4566	0.57	PPBV	# 62
40) 1,1-DICHLOROETHANE	6.555	63	56972	0.64	PPBV	100
41) METHYL ETHYL KETONE	7.014	72	10664	0.58	PPBV	96
42) cis-1,2-DICHLOROETHYLENE	7.400	96	33606	0.63	PPBV	97
43) DIISOPROPYL ETHER	7.638	59	12525	0.63	PPBV	# 88
44) ETHYL ACETATE	7.699	61	8510	0.61	PPBV	# 73
45) METHYL ACRYLATE	7.675	55	44228m	0.53	PPBV	
46) CHLOROFORM	7.706	83	69537	0.67	PPBV	90
47) 2,4-DIMETHYLPENTANE	8.568	57	50418	0.57	PPBV	98
48) 1,1,1-TRICHLOROETHANE	8.776	97	71975	0.65	PPBV	100
49) CARBON TETRACHLORIDE	9.467	117	81149	0.66	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57059.D
Acq On : 24 Feb 2025 7:51 am
Operator : benk
Sample : ic2187-0.5
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 14:20:22 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 02:35:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.507	62	46398	0.65	PPBV	99
52) BENZENE	9.296	78	92906	0.64	PPBV	99
53) CYCLOHEXANE	9.602	84	37080	0.63	PPBV	99
54) 2,3-DIMETHYLPENTANE	9.902	71	18093	0.62	PPBV	99
55) TRICHLOROETHYLENE	10.556	95	45362	0.61	PPBV	100
56) 1,2-DICHLOROPROPANE	10.263	63	34203	0.57	PPBV	98
57) DIBROMOMETHANE	10.238	174	50209	0.60	PPBV	98
58) ETHYL ACRYLATE	10.367	55	52458	0.54	PPBV	99
59) BROMODICHLOROMETHANE	10.508	83	76214	0.61	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	10.587	57	142259	0.62	PPBV	99
61) 1,4-DIOXANE	10.648	88	19556	0.59	PPBV #	1
62) HEPTANE	10.936	43	48937	0.63	PPBV	99
63) METHYL METHACRYLATE	10.875	69	28150	0.62	PPBV #	71
64) METHYL ISOBUTYL KETONE	11.749	58	24141	0.58	PPBV	97
65) cis-1,3-DICHLOROPROPENE	11.645	75	55100	0.58	PPBV	98
66) TOLUENE	12.869	92	64921	0.61	PPBV	98
67) 1,3-DICHLOROPROPANE	12.924	76	53568	0.64	PPBV #	98
68) trans-1,3-DICHLOROPROPENE	12.331	75	48289	0.56	PPBV	94
69) 1,1,2-TRICHLOROETHANE	12.520	83	35777	0.61	PPBV	98
71) 2-HEXANONE	13.322	58	28395	0.59	PPBV	95
72) ETHYL METHACRYLATE	13.322	69	46278	0.66	PPBV	97
73) TETRACHLOROETHYLENE	14.374	164	55378	0.73	PPBV	100
74) DIBROMOCHLOROMETHANE	13.420	129	85247	0.71	PPBV	99
75) 1,2-DIBROMOETHANE	13.738	107	70101	0.73	PPBV	99
76) OCTANE	14.245	43	67397	0.68	PPBV	98
77) 1,1,1,2-TETRACHLOROETHANE	15.298	131	55959	0.69	PPBV	98
78) CHLOROBENZENE	15.316	112	96287	0.71	PPBV	98
79) ETHYLBENZENE	15.873	91	145635	0.71	PPBV	99
80) m,p-XYLENE	16.124	106	112502	1.37	PPBV	96
81) o-XYLENE	16.815	106	55440	0.71	PPBV	97
82) STYRENE	16.674	104	84931	0.70	PPBV	95
83) NONANE	17.225	43	67336	0.62	PPBV	99
84) BROMOFORM	16.203	173	88968	0.75	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.821	83	93033	0.72	PPBV	99
87) 1,2,3-TRICHLOROPROPANE	17.017	75	66558	0.70	PPBV	100
88) ISOPROPYLBENZENE	17.726	105	161924	0.70	PPBV	98
89) BROMOBENZENE	17.824	77	79861	0.67	PPBV	99
90) 2-CHLOROTOLUENE	18.461	126	43520	0.67	PPBV	98
91) n-PROPYLBENZENE	18.552	120	46038	0.71	PPBV	98
92) 4-ETHYLTOLUENE	18.797	105	163245	0.72	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	18.932	105	139186	0.70	PPBV	98
94) ALPHA-METHYLSTYRENE	19.182	118	64806	0.64	PPBV	99
95) tert-BUTYLBENZENE	19.537	134	31856	0.72	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	19.549	105	139241	0.71	PPBV	100
97) m-DICHLOROBENZENE	19.745	146	105633	0.67	PPBV	99
98) BENZYL CHLORIDE	19.739	91	106681	0.63	PPBV	98
99) p-DICHLOROBENZENE	19.849	146	115222	0.71	PPBV	98
100) sec-BUTYLBENZENE	19.947	134	39734	0.73	PPBV	94
101) 1,2,3-TRIMETHYLBENZENE	20.167	105	141261	0.69	PPBV #	98
102) p-ISOPROPYLTOLUENE	20.192	134	44223	0.71	PPBV	96
103) o-DICHLOROBENZENE	20.333	146	106364	0.71	PPBV	98
104) n-BUTYLBENZENE	20.791	134	40328	0.66	PPBV	90
105) HEXACHLOROETHANE	21.250	117	68718	0.72	PPBV	99
106) HEXACHLOROBUTADIENE	23.196	225	93669	0.66	PPBV	99
107) 1,2,4-TRICHLOROBENZENE	23.067	180	44166	0.33	PPBV	99
108) NAPHTHALENE	22.749	128	150214	0.51	PPBV	97
110) TVHC as equiv Pentane	5.142	TIC	168461m	0.52	PPBV	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57059.D
Acq On : 24 Feb 2025 7:51 am
Operator : benk
Sample : ic2187-0.5
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 14:20:22 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 02:35:43 2025
Response via : Initial Calibration

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

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

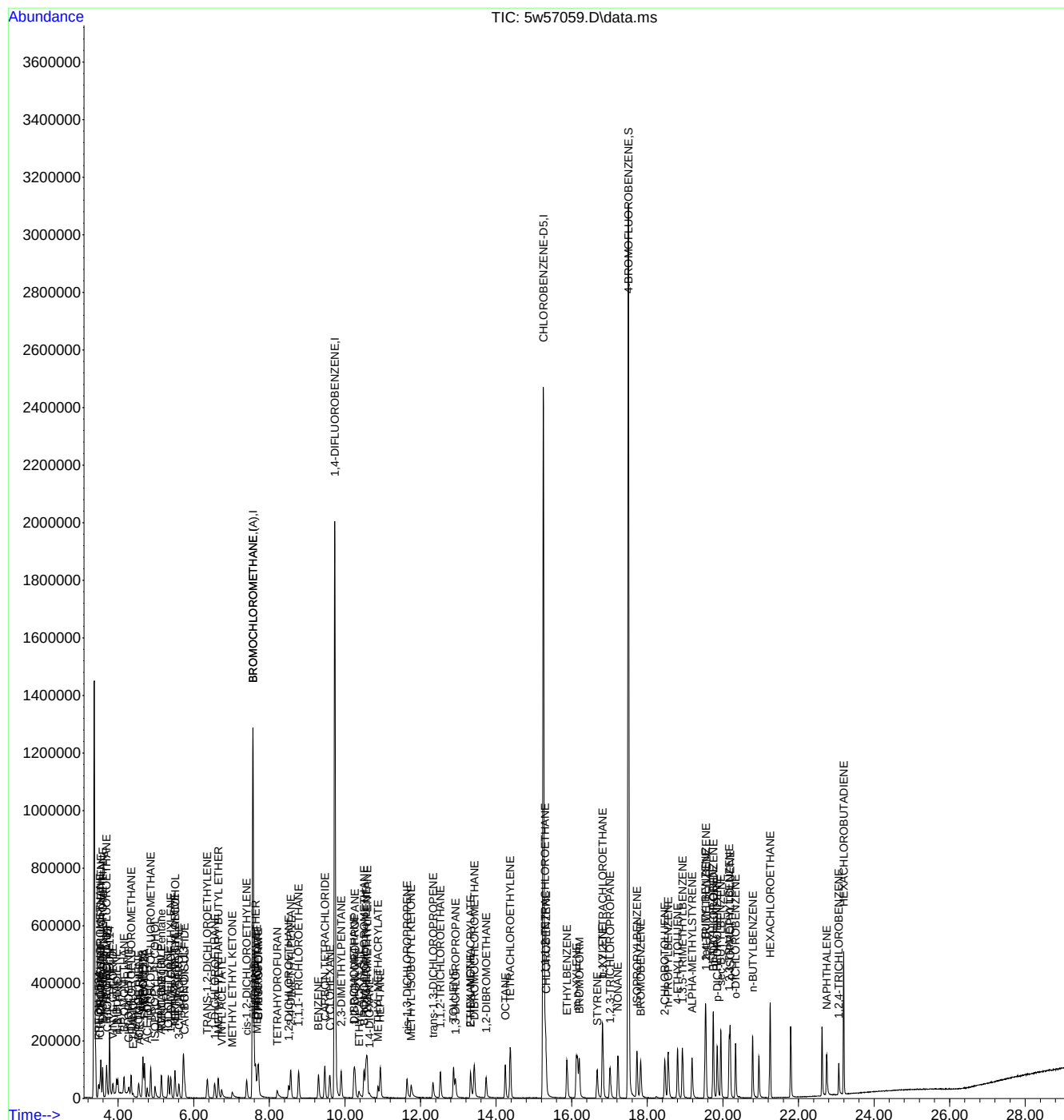
7.7.20

7

Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\  
Data File : 5w57059.D  
Acq On : 24 Feb 2025 7:51 am  
Operator : benk  
Sample : ic2187-0.5  
Misc : MS88386,V5W2187,,,,,1  
ALS Vial : 4 Sample Multiplier: 1
```

Quant Time: Feb 24 14:20:22 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 02:35:43 2025
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

V5W2187-IC2187

Method:

TO-15

Lab FileID:

5W57059.D

Analyst approved:

02/24/25 10:48 Benjamin Kim

Injection Time:

02/24/25 07:51

Supervisor approved:

02/24/25 16:39 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason

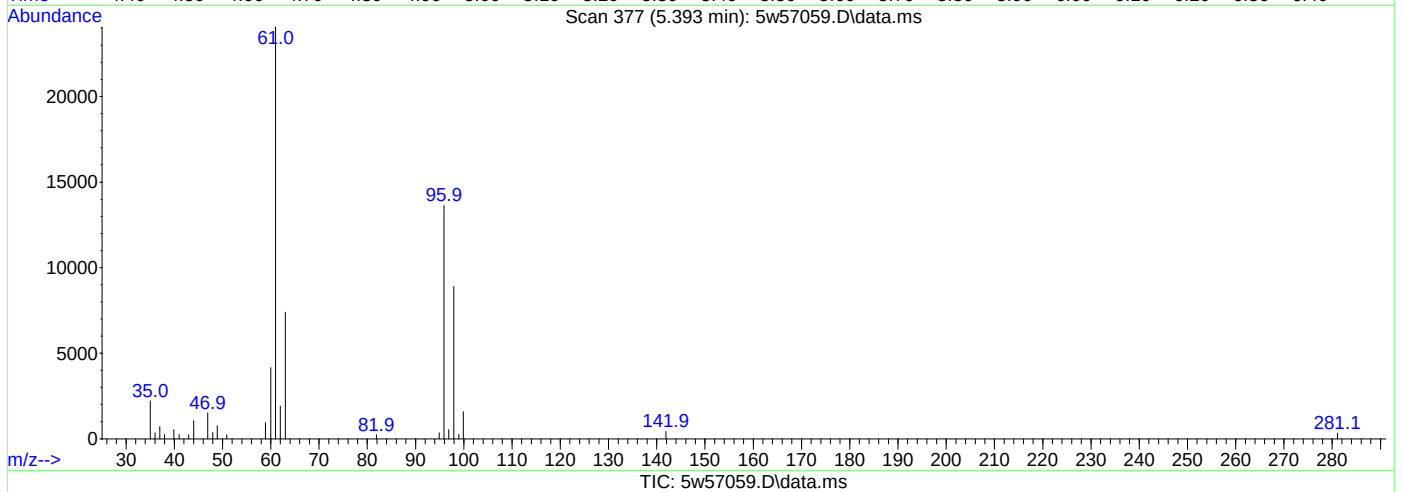
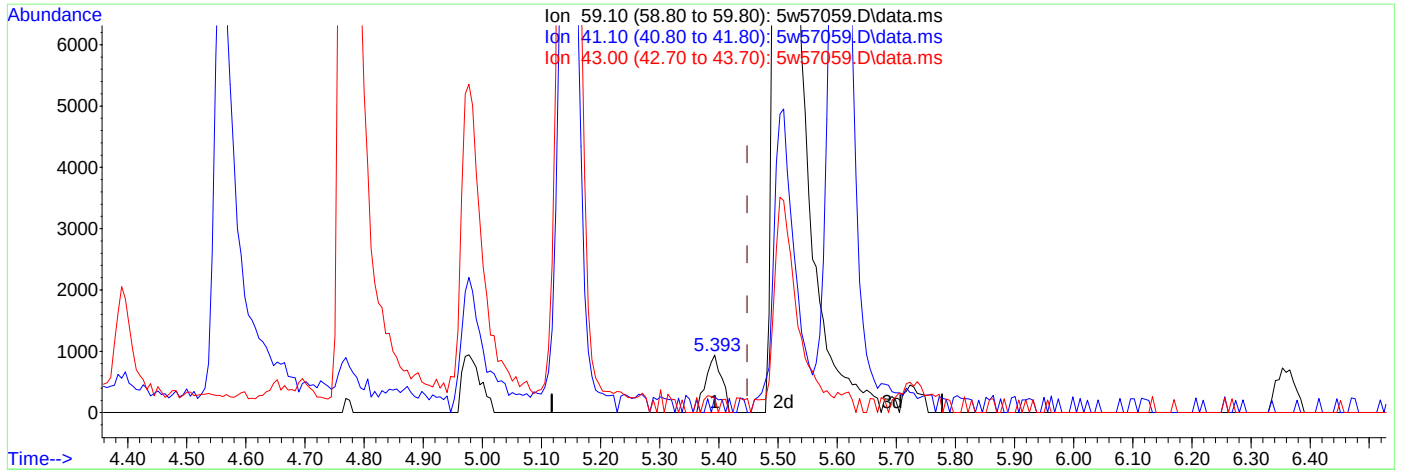
TVHC As Equiv Pentane			5.14	Poor instrument integration
Tertiary Butyl Alcohol	75-65-0		5.51	Poor instrument integration
Methyl Acrylate	96-33-3		7.67	Poor instrument integration

7.7.20.1
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57059.D
Acq On : 24 Feb 2025 7:51 am
Operator : benk
Sample : ic2187-0.5
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 08:26:43 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 02:35:43 2025
Response via : Initial Calibration



(35) TERTIARY BUTYL ALCOHOL

5.393min (-0.055) 0.02PPBV

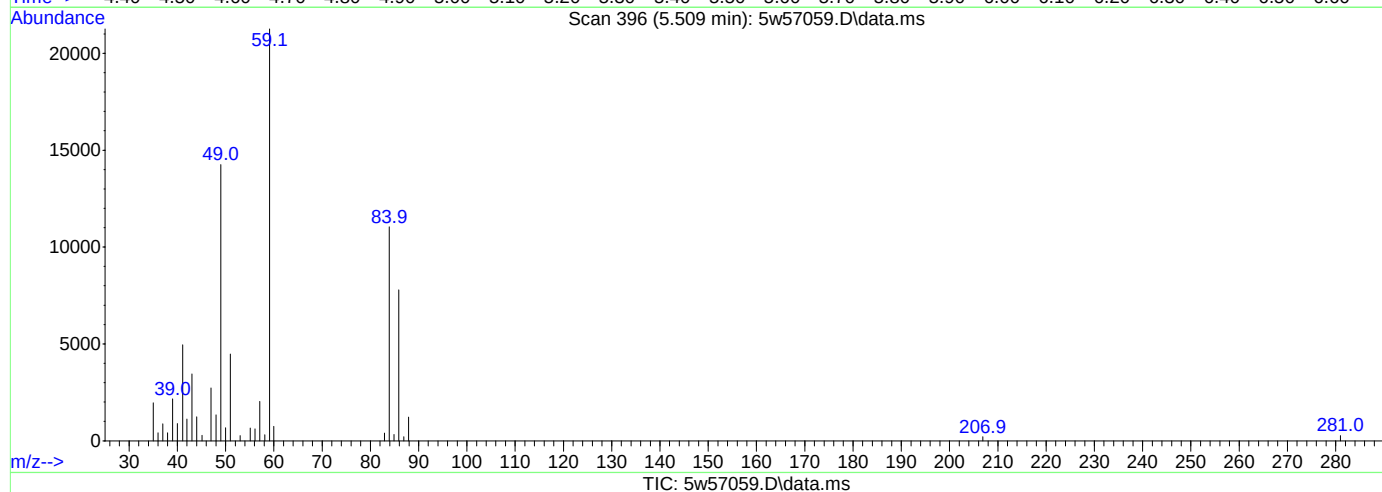
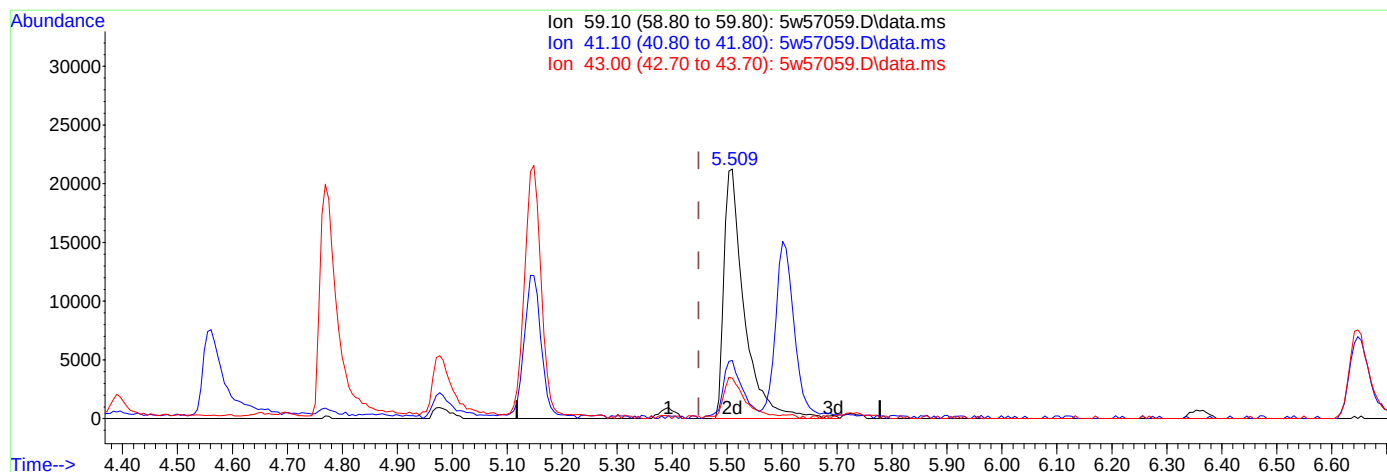
response 1746

Ion	Exp%	Act%
59.10	100	100
41.10	21.80	24.00
43.00	15.40	25.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57059.D
Acq On : 24 Feb 2025 7:51 am
Operator : benk
Sample : ic2187-0.5
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 08:26:43 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 02:35:43 2025
Response via : Initial Calibration



(35) TERTIARY BUTYL ALCOHOL

5.509min (+0.061) 0.58PPBV m

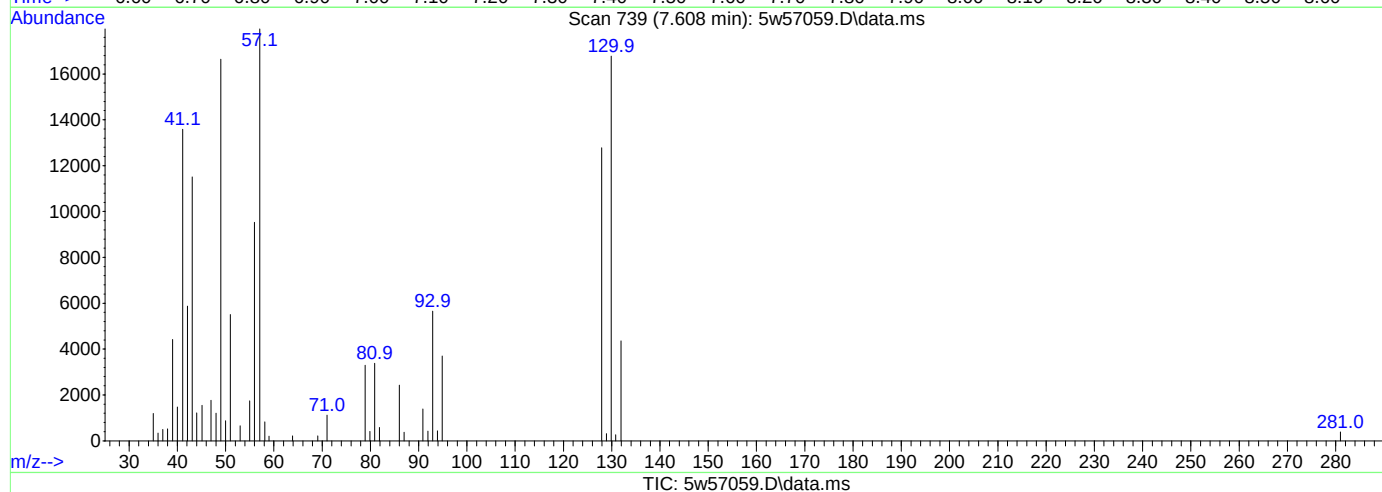
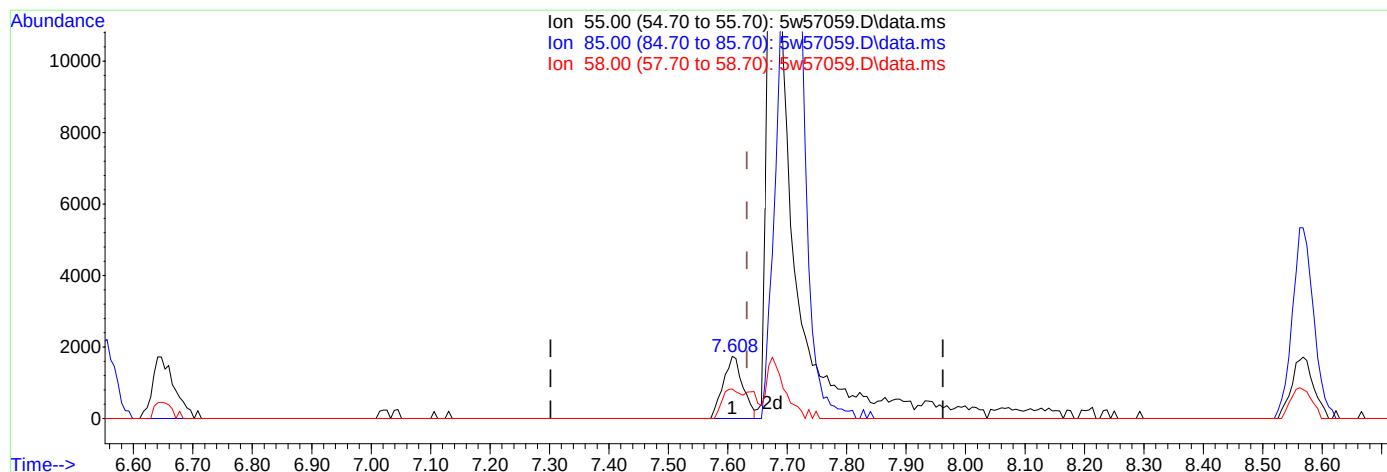
response 55054

Ion	Exp%	Act%
59.10	100	100
41.10	21.80	0.76
43.00	15.40	0.82
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57059.D
Acq On : 24 Feb 2025 7:51 am
Operator : benk
Sample : ic2187-0.5
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 08:26:43 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 02:35:43 2025
Response via : Initial Calibration



(45) METHYL ACRYLATE

7.608min (-0.024) 0.05PPBV

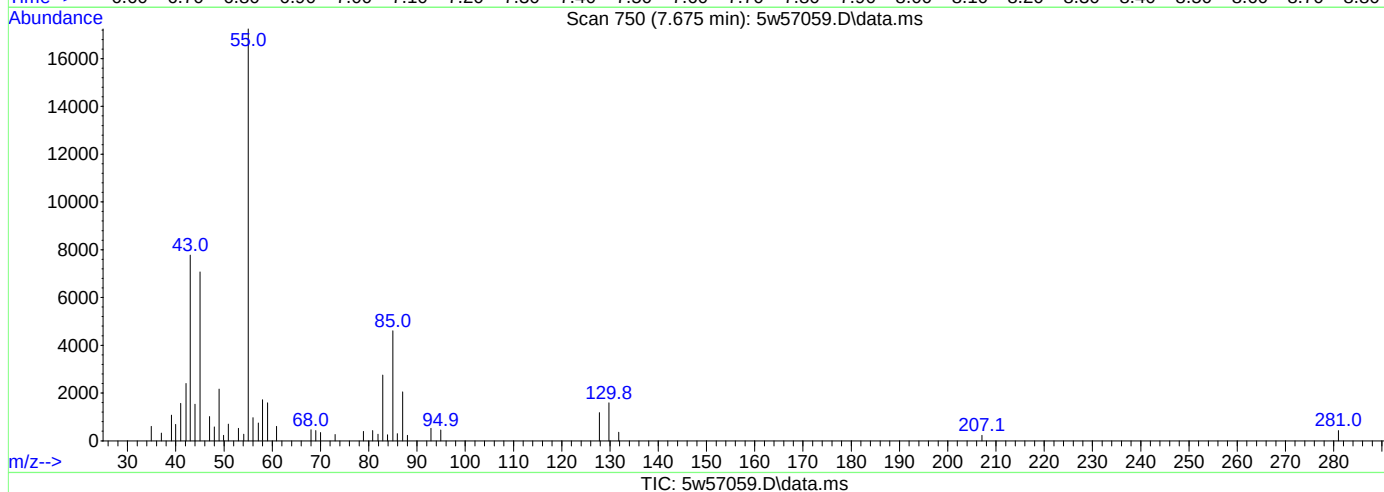
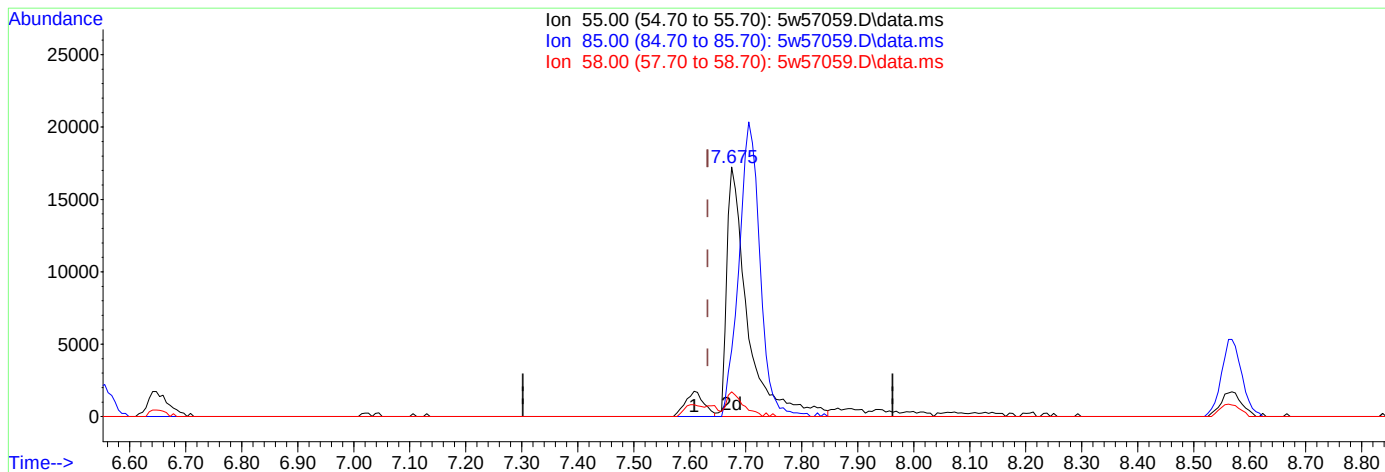
response 4039

Ion	Exp%	Act%
55.00	100	100
85.00	16.10	0.00#
58.00	13.60	74.72#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57059.D
Acq On : 24 Feb 2025 7:51 am
Operator : benk
Sample : ic2187-0.5
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 08:26:43 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 02:35:43 2025
Response via : Initial Calibration



(45) METHYL ACRYLATE

7.675min (+0.043) 0.53PPBV m

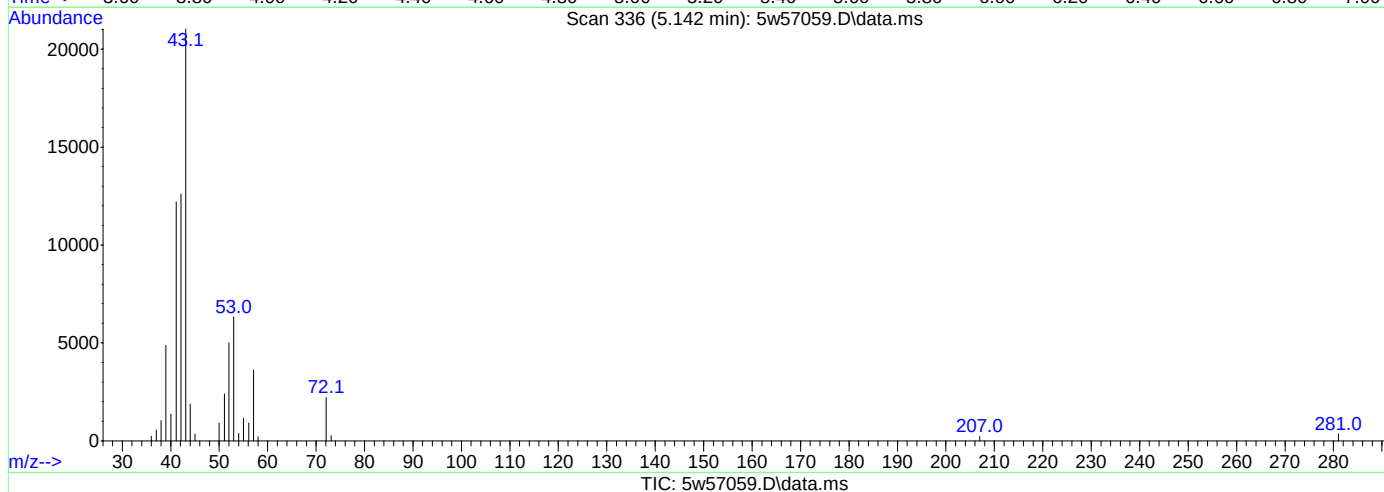
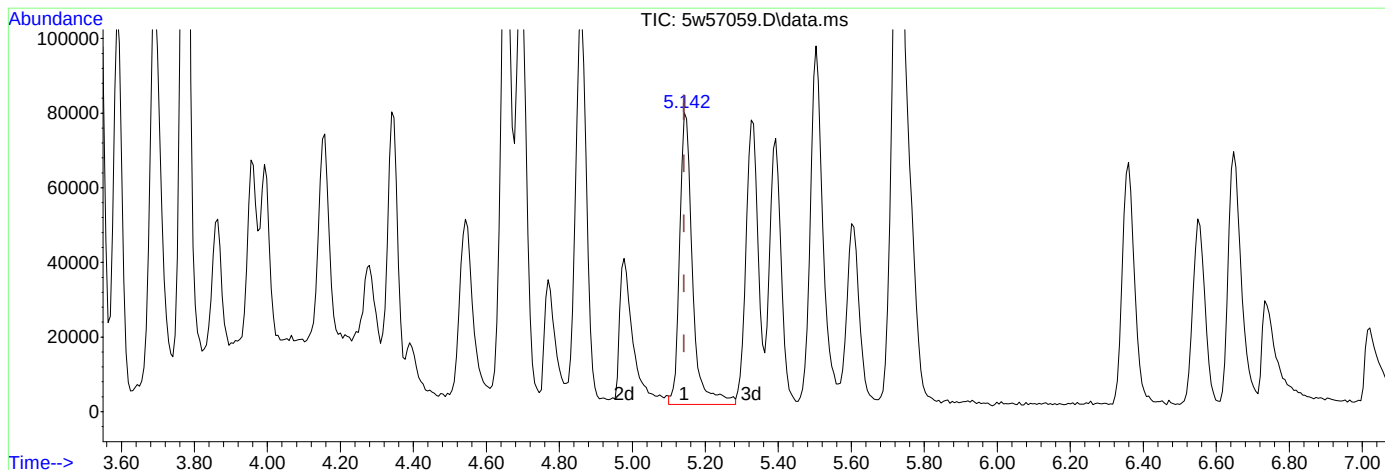
response 44228

Ion	Exp%	Act%
55.00	100	100
85.00	16.10	0.00#
58.00	13.60	6.82#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57059.D
Acq On : 24 Feb 2025 7:51 am
Operator : benk
Sample : ic2187-0.5
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 08:26:43 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 02:35:43 2025
Response via : Initial Calibration



(110) TVHC as equiv Pentane

5.142min (+0.000) 0.60PPBV

response 191228

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

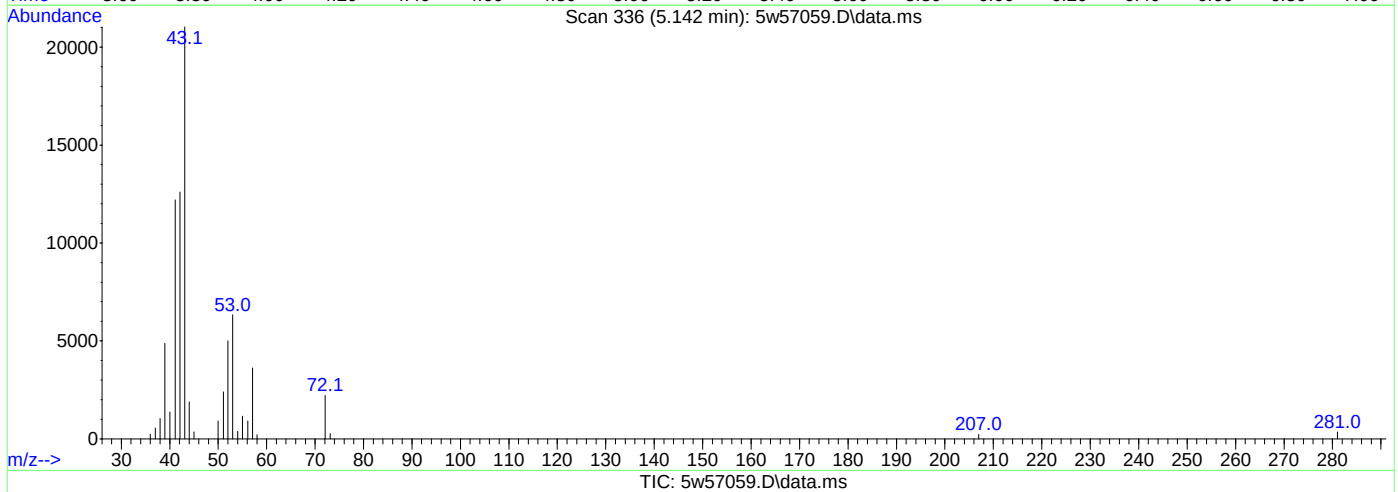
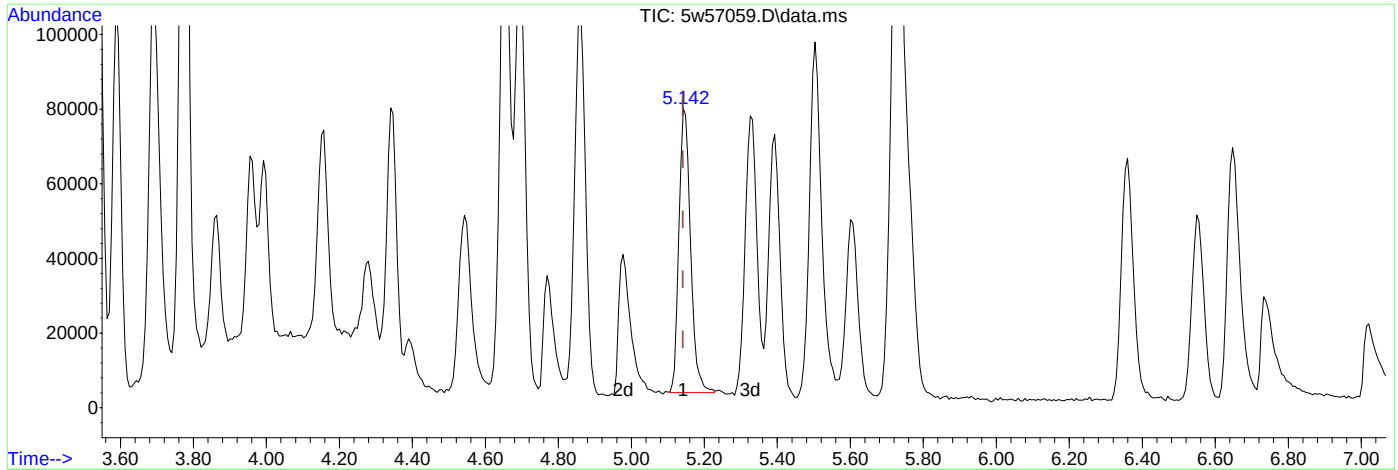
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 5w57059.D
Acq On : 24 Feb 2025 7:51 am
Operator : benk
Sample : ic2187-0.5
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 24 08:26:43 2025
Quant Method : C:\msdchem\1\methods\M5w21487.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 02:35:43 2025
Response via : Initial Calibration



(110) TVHC as equiv Pentane

5.142min (+0.000) 0.52PPBV m

response 168461

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 5w57061.D
 Acq On : 24 Feb 2025 9:33 am
 Operator : benk
 Sample : icv2187-10
 Misc : MS88386,V5W2187,,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 24 14:22:42 2025
 Quant Method : C:\msdchem\1\methods\M5w2187.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Mon Feb 24 14:22:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	415292	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1859011	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.255	82	943758	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.571	128	415292	10.00	PPBV	# 0.00

System Monitoring Compounds
 85) 4-BROMOFLUOROBENZENE 17.500 95 1235939 10.16 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 101.60%

Target Compounds						Qvalue
3) FREON 152A	3.485	65	282467	8.78	PPBV	99
4) CHLORODIFLUOROMETHANE	3.515	67	141509	9.67	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.540	116	721601	9.99	PPBV	100
6) DICHLORODIFLUOROMETHANE	3.589	85	1325894	10.09	PPBV	99
7) PROPYLENE	3.533	41	306651	8.51	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.686	65	1116446	10.05	PPBV	100
9) FREON 114	3.772	85	1470105	10.52	PPBV	100
10) CHLOROMETHANE	3.705	52	158200	9.46	PPBV	97
11) VINYL CHLORIDE	3.858	62	503611	9.59	PPBV	100
12) 1,3-BUTADIENE	3.956	54	343836	10.25	PPBV	100
13) n-BUTANE	3.992	43	542370	9.93	PPBV	98
14) BROMOMETHANE	4.157	94	546978	9.71	PPBV	100
15) CHLOROETHANE	4.280	64	235137	9.25	PPBV	99
16) DICHLOROFLUOROMETHANE	4.341	67	1108167	10.32	PPBV	100
17) ACETONITRILE	4.537	41	305562	9.69	PPBV	100
18) ACROLEIN	4.629	56	197424	10.99	PPBV	100
19) FREON 123	4.653	83	1172211	10.05	PPBV	98
20) FREON 123A	4.696	117	680134	9.28	PPBV	99
21) TRICHLOROFLUOROMETHANE	4.855	101	1329103	10.31	PPBV	100
22) ISOPROPYL ALCOHOL	4.941	45	890529	10.44	PPBV	99
23) ACETONE	4.739	58	209533	9.81	PPBV #	1
24) PENTANE	5.142	42	377375	9.71	PPBV	100
25) IODOMETHANE	5.326	142	1350186	10.21	PPBV	100
26) 1,1-DICHLOROETHYLENE	5.387	96	420082	9.70	PPBV	99
27) CARBON DISULFIDE	5.754	76	1200438	10.31	PPBV	100
28) ETHANOL	4.372	45	184341	8.69	PPBV	99
29) BROMOETHENE	4.537	106	548633	10.27	PPBV	100
30) ACRYLONITRILE	5.112	52	267301	9.72	PPBV	100
31) METHYLENE CHLORIDE	5.497	84	376991	9.40	PPBV	99
32) 3-CHLOROPROPENE	5.601	76	186619	9.41	PPBV	98
33) FREON 113	5.724	151	810199	10.08	PPBV	100
34) TRANS-1,2-DICHLOROETHYLENE	6.354	96	450103	9.73	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.448	59	850027	9.90	PPBV	99
36) METHYL TERTIARY BUTYL ALCOHOL	6.611	73	1131783	9.24	PPBV	99
37) TETRAHYDROFURAN	8.134	72	188094	11.44	PPBV	98
38) HEXANE	7.602	57	638863	9.04	PPBV	99
39) VINYL ACETATE	6.709	86	83827	11.53	PPBV #	92
40) 1,1-DICHLOROETHANE	6.550	63	780716	9.66	PPBV	99
41) METHYL ETHYL KETONE	6.953	72	190465	11.46	PPBV	100
42) cis-1,2-DICHLOROETHYLENE	7.400	96	477468	9.78	PPBV	98
43) DIISOPROPYL ETHER	7.614	59	197809	11.02	PPBV	96
44) ETHYL ACETATE	7.651	61	140396	10.97	PPBV #	98
45) METHYL ACRYLATE	7.632	55	802132	10.25	PPBV	99
46) CHLOROFORM	7.712	83	968348	10.13	PPBV	100
47) 2,4-DIMETHYLPENTANE	8.562	57	742303	9.33	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.776	97	1024579	10.19	PPBV	100
49) CARBON TETRACHLORIDE	9.468	117	1145679	10.14	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57061.D
Acq On : 24 Feb 2025 9:33 am
Operator : benk
Sample : icv2187-10
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 24 14:22:42 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	8.507	62	660896	10.08	PPBV	99
52)	BENZENE	9.296	78	1305012	10.13	PPBV	100
53)	CYCLOHEXANE	9.596	84	518419	9.89	PPBV	99
54)	2,3-DIMETHYLPENTANE	9.902	71	258851	9.90	PPBV	99
55)	TRICHLOROETHYLENE	10.550	95	642835	9.67	PPBV	100
56)	1,2-DICHLOROPROPANE	10.263	63	502508	9.45	PPBV	100
57)	DIBROMOMETHANE	10.232	174	728599	9.74	PPBV	100
58)	ETHYL ACRYLATE	10.312	55	980042	11.51	PPBV	100
59)	BROMODICHLOROMETHANE	10.508	83	1113068	9.94	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	10.587	57	1984689	9.80	PPBV	100
61)	1,4-DIOXANE	10.569	88	309396	10.61	PPBV	97
62)	HEPTANE	10.936	43	672882	9.74	PPBV	99
63)	METHYL METHACRYLATE	10.844	69	449033	11.23	PPBV	98
64)	METHYL ISOBUTYL KETONE	11.695	58	398748	10.67	PPBV	99
65)	cis-1,3-DICHLOROPROPENE	11.633	75	805603	9.58	PPBV	100
66)	TOLUENE	12.863	92	962192	10.06	PPBV	100
67)	1,3-DICHLOROPROPANE	12.912	76	780589	10.41	PPBV #	100
68)	trans-1,3-DICHLOROPROPENE	12.312	75	765327	10.00	PPBV	100
69)	1,1,2-TRICHLOROETHANE	12.514	83	537614	10.30	PPBV	99
71)	2-HEXANONE	13.261	58	572256	11.85	PPBV	100
72)	ETHYL METHACRYLATE	13.297	69	804055	11.44	PPBV	98
73)	TETRACHLOROETHYLENE	14.374	164	801182	10.52	PPBV	100
74)	DIBROMOCHLOROMETHANE	13.414	129	1284476	10.46	PPBV	100
75)	1,2-DIBROMOETHANE	13.732	107	1056625	10.83	PPBV	100
76)	OCTANE	14.239	43	983666	9.86	PPBV	99
77)	1,1,1,2-TETRACHLOROETHANE	15.298	131	865770	10.62	PPBV	100
78)	CHLOROBENZENE	15.316	112	1401526	10.20	PPBV	100
79)	ETHYLBENZENE	15.867	91	2162374	10.50	PPBV	100
80)	m,p-XYLENE	16.142	106	1674458	20.24	PPBV	99
81)	o-XYLENE	16.809	106	817878	10.32	PPBV	99
82)	STYRENE	16.662	104	1262511	10.37	PPBV	99
83)	NONANE	17.225	43	1002308	9.22	PPBV	99
84)	BROMOFORM	16.197	173	1313599	10.68	PPBV	100
86)	1,1,2,2-TETRACHLOROETHANE	16.815	83	1360380	10.44	PPBV	99
87)	1,2,3-TRICHLOROPROPANE	17.005	75	958847	9.97	PPBV	99
88)	ISOPROPYLBENZENE	17.727	105	2382824	10.14	PPBV	100
89)	BROMOBENZENE	17.812	77	1147408	9.52	PPBV	99
90)	2-CHLOROTOLUENE	18.455	126	677148	10.26	PPBV	100
91)	n-PROPYLBENZENE	18.546	120	684888	10.39	PPBV	99
92)	4-ETHYLTOLUENE	18.791	105	2381380	10.39	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	18.926	105	1986668	9.95	PPBV	100
94)	ALPHA-METHYLSTYRENE	19.176	118	977342	9.57	PPBV	100
95)	tert-BUTYLBENZENE	19.531	134	486869	10.84	PPBV	97
96)	1,2,4-TRIMETHYLBENZENE	19.550	105	2094236	10.57	PPBV	99
97)	m-DICHLOROBENZENE	19.739	146	1580294	9.92	PPBV	99
98)	BENZYL CHLORIDE	19.733	91	1926922	11.28	PPBV	100
99)	p-DICHLOROBENZENE	19.843	146	1545685	9.46	PPBV	100
100)	sec-BUTYLBENZENE	19.941	134	580262	10.56	PPBV	100
101)	1,2,3-TRIMETHYLBENZENE	20.161	105	2072471	10.05	PPBV #	100
102)	p-ISOPROPYLTOLUENE	20.192	134	672144	10.65	PPBV	100
103)	o-DICHLOROBENZENE	20.333	146	1461145	9.59	PPBV	100
104)	n-BUTYLBENZENE	20.785	134	662149	10.80	PPBV	100
105)	HEXACHLOROETHANE	21.250	117	930823	9.62	PPBV	99
106)	HEXACHLOROBUTADIENE	23.196	225	1522186	10.68	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	23.061	180	1422348	11.13	PPBV	100
108)	NAPHTHALENE	22.737	128	3244374	11.34	PPBV	100
110)	VHC as equiv Pentane	5.136	TIC	2562317	8.91	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5W57061.D
Acq On : 24 Feb 2025 9:33 am
Operator : benk
Sample : icv2187-10
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 24 14:22:42 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

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

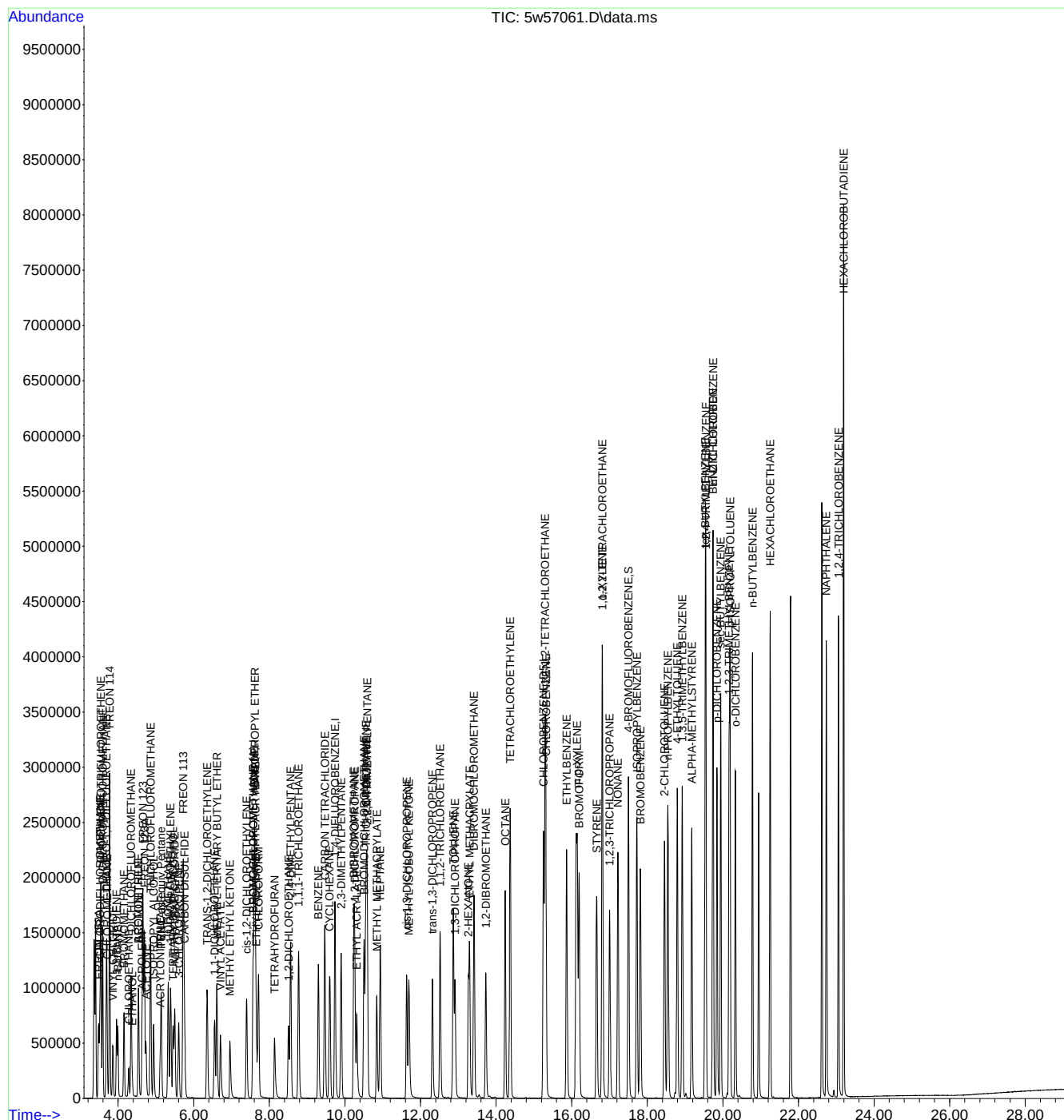
7.7.21

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 5w57061.D
Acq On : 24 Feb 2025 9:33 am
Operator : benk
Sample : icv2187-10
Misc : MS88386,V5W2187,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 24 14:22:42 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



7.7.21

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\030425\v5w2193\
 Data File : 5w57161.D
 Acq On : 3 Mar 2025 1:00 pm
 Operator : thomash
 Sample : cc2187-10 Inst : GCMS5W
 Misc : MS89870,V5W2193,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 10:10:36 2025
 Quant Method : C:\msdchem\1\methods\M5w2187.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Mon Feb 24 14:22:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	353567	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1606962	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	872956	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.571	128	353567	10.00	PPBV	# 0.00

System Monitoring Compounds
 85) 4-BROMOFLUOROBENZENE 17.500 95 1110388 9.87 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 98.70%

Target Compounds	Qvalue					
3) FREON 152A	3.485	65	266215	9.7250	PPBV	97
4) CHLORODIFLUOROMETHANE	3.515	67	126867	10.1853	PPBV	97
5) CHLOROTRIFLUOROETHENE	3.540	116	631448	10.2683	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.589	85	1235523	11.0420	PPBV	100
7) PROPYLENE	3.534	41	274265	8.9386	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHANE	3.686	65	1207497	12.7652	PPBV	99
9) FREON 114	3.772	85	1569546	13.1930	PPBV	95
10) CHLOROMETHANE	3.705	52	171013	12.0139	PPBV	98
11) VINYL CHLORIDE	3.858	62	560117	12.5272	PPBV	99
12) 1,3-BUTADIENE	3.956	54	380476	13.3162	PPBV	100
13) n-BUTANE	3.992	43	597788	12.8490	PPBV	99
14) BROMOMETHANE	4.151	94	590771	12.3231	PPBV	98
15) CHLOROETHANE	4.274	64	259325	11.9869	PPBV	99
16) DICHLOROFLUOROMETHANE	4.341	67	1208921	13.2247	PPBV	100
17) ACETONITRILE	4.537	41	331842	12.3577	PPBV	100
18) ACROLEIN	4.629	56	205158	13.4145	PPBV	99
19) FREON 123	4.653	83	1327522	13.3747	PPBV	97
20) FREON 123A	4.696	117	752900	12.0654	PPBV	88
21) TRICHLOROFLUOROMETHANE	4.855	101	1407597	12.8243	PPBV	100
22) ISOPROPYL ALCOHOL	4.934	45	911349	12.5535	PPBV	99
23) ACETONE	4.733	58	243063	13.3720	PPBV	# 1
24) PENTANE	5.143	42	351329	10.6193	PPBV	99
25) IODOMETHANE	5.326	142	1184069	10.5198	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.387	96	378751	10.2765	PPBV	98
27) CARBON DISULFIDE	5.754	76	1066698	10.7559	PPBV	100
28) ETHANOL	4.372	45	227533	12.5978	PPBV	100
29) BROMOETHENE	4.537	106	569754	12.5287	PPBV	99
30) ACRYLONITRILE	5.112	52	250280	10.6880	PPBV	99
31) METHYLENE CHLORIDE	5.497	84	347542	10.1790	PPBV	98
32) 3-CHLOROPROPENE	5.601	76	178718	10.5855	PPBV	93
33) FREON 113	5.724	151	689739	10.0834	PPBV	97
34) TRANS-1,2-DICHLOROETHYLENE	6.354	96	401432	10.1959	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.448	59	720433	9.8582	PPBV	99
36) METHYL TERTIARY BUTYL ETHER	6.611	73	1032891	9.8998	PPBV	99
37) TETRAHYDROFURAN	8.134	72	173397	12.3898	PPBV	97
38) HEXANE	7.602	57	622451	10.3511	PPBV	98
39) VINYL ACETATE	6.709	86	72551	11.7202	PPBV	100
40) 1,1-DICHLOROETHANE	6.550	63	737166	10.7092	PPBV	100
41) METHYL ETHYL KETONE	6.953	72	180174	12.7295	PPBV	96
42) cis-1,2-DICHLOROETHYLENE	7.400	96	428131	10.2980	PPBV	99
43) DIISOPROPYL ETHER	7.614	59	191159	12.5040	PPBV	94
44) ETHYL ACETATE	7.645	61	140408	12.8878	PPBV	# 97
45) METHYL ACRYLATE	7.632	55	765258	11.4851	PPBV	100
46) CHLOROFORM	7.712	83	890447	10.9445	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.562	57	710731	10.4885	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.776	97	905849	10.5855	PPBV	99
49) CARBON TETRACHLORIDE	9.462	117	998825	10.3810	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\030425\v5w2193\
Data File : 5w57161.D
Acq On : 3 Mar 2025 1:00 pm
Operator : thomash
Sample : cc2187-10 Inst : GCMS5W
Misc : MS89870,V5W2193,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 10:10:36 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.501	62	606814	10.8728	PPBV	100
52) BENZENE	9.296	78	1220774	10.9646	PPBV	100
53) CYCLOHEXANE	9.596	84	485147	10.7075	PPBV	100
54) 2,3-DIMETHYLPENTANE	9.896	71	246313	10.9028	PPBV	100
55) TRICHLOROETHYLENE	10.551	95	594161	10.3368	PPBV	95
56) 1,2-DICHLOROPROPANE	10.257	63	479031	10.4268	PPBV	99
57) DIBROMOMETHANE	10.232	174	630657	9.7501	PPBV	96
58) ETHYL ACRYLATE	10.312	55	916386	12.4472	PPBV	99
59) BROMODICHLOROMETHANE	10.502	83	1032476	10.6670	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.581	57	1926152	11.0002	PPBV	100
61) 1,4-DIOXANE	10.569	88	283816	11.2596	PPBV #	82
62) HEPTANE	10.930	43	629019	10.5291	PPBV	97
63) METHYL METHACRYLATE	10.838	69	423253	12.2416	PPBV	95
64) METHYL ISOBUTYL KETONE	11.688	58	387185	11.9909	PPBV	96
65) cis-1,3-DICHLOROPROPENE	11.633	75	797196	10.9721	PPBV	98
66) TOLUENE	12.863	92	872709	10.5585	PPBV	99
67) 1,3-DICHLOROPROPANE	12.912	76	729598	11.2524	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.312	75	713088	10.7826	PPBV	99
69) 1,1,2-TRICHLOROETHANE	12.514	83	499819	11.0742	PPBV	97
71) 2-HEXANONE	13.261	58	549837	12.3092	PPBV	97
72) ETHYL METHACRYLATE	13.291	69	732333	11.2648	PPBV	98
73) TETRACHLOROETHYLENE	14.368	164	694547	9.8618	PPBV	99
74) DIBROMOCHLOROMETHANE	13.414	129	1102446	9.7014	PPBV	100
75) 1,2-DIBROMOETHANE	13.726	107	941236	10.4278	PPBV	100
76) OCTANE	14.233	43	924097	10.0132	PPBV	99
77) 1,1,1,2-TETRACHLOROETHANE	15.292	131	753908	9.9985	PPBV	97
78) CHLOROBENZENE	15.310	112	1258983	9.9028	PPBV	98
79) ETHYLBENZENE	15.867	91	1974559	10.3630	PPBV	98
80) m,p-XYLENE	16.118	106	1502883	19.6406	PPBV	97
81) o-XYLENE	16.809	106	746413	10.1775	PPBV	96
82) STYRENE	16.656	104	1155152	10.2551	PPBV	99
83) NONANE	17.219	43	950282	9.4532	PPBV	99
84) BROMOFORM	16.191	173	1184222	10.4060	PPBV	100
86) 1,1,2,2-TETRACHLOROETHANE	16.809	83	1321369	10.9580	PPBV	98
87) 1,2,3-TRICHLOROPROPANE	17.005	75	884615	9.9438	PPBV	97
88) ISOPROPYLBENZENE	17.721	105	2119598	9.7481	PPBV	98
89) BROMOBENZENE	17.812	77	1058187	9.4957	PPBV	96
90) 2-CHLOROTOLUENE	18.455	126	564837	9.2504	PPBV	99
91) n-PROPYLBENZENE	18.540	120	584266	9.5785	PPBV	99
92) 4-ETHYLTOLUENE	18.791	105	2137240	10.0770	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	18.926	105	1765328	9.5612	PPBV	99
94) ALPHA-METHYLSTYRENE	19.170	118	902768	9.5583	PPBV	99
95) tert-BUTYLBENZENE	19.531	134	422661	10.1704	PPBV	100
96) 1,2,4-TRIMETHYLBENZENE	19.544	105	1911577	10.4350	PPBV	97
97) m-DICHLOROBENZENE	19.739	146	1390360	9.4324	PPBV	99
98) BENZYL CHLORIDE	19.733	91	1753501	11.1021	PPBV	98
99) p-DICHLOROBENZENE	19.843	146	1349506	8.9257	PPBV	100
100) sec-BUTYLBENZENE	19.941	134	492715	9.6946	PPBV	90
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	1829859	9.5924	PPBV #	98
102) p-ISOPROPYLTOLUENE	20.186	134	569170	9.7512	PPBV	97
103) o-DICHLOROBENZENE	20.327	146	1265300	8.9742	PPBV	100
104) n-BUTYLBENZENE	20.785	134	562488	9.9187	PPBV #	85
105) HEXACHLOROETHANE	21.244	117	906131	10.1272	PPBV	99
106) HEXACHLOROBUTADIENE	23.190	225	1306450	9.9130	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.055	180	1111079	9.4023	PPBV	99
108) NAPHTHALENE	22.737	128	2364385	8.9378	PPBV	100
110) TVHC as equiv Pentane	5.136	TIC	2434180	9.9474	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\030425\v5w2193\
Data File : 5w57161.D
Acq On : 3 Mar 2025 1:00 pm
Operator : thomash
Sample : cc2187-10 Inst : GCMS5W
Misc : MS89870,V5W2193,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 10:10:36 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

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

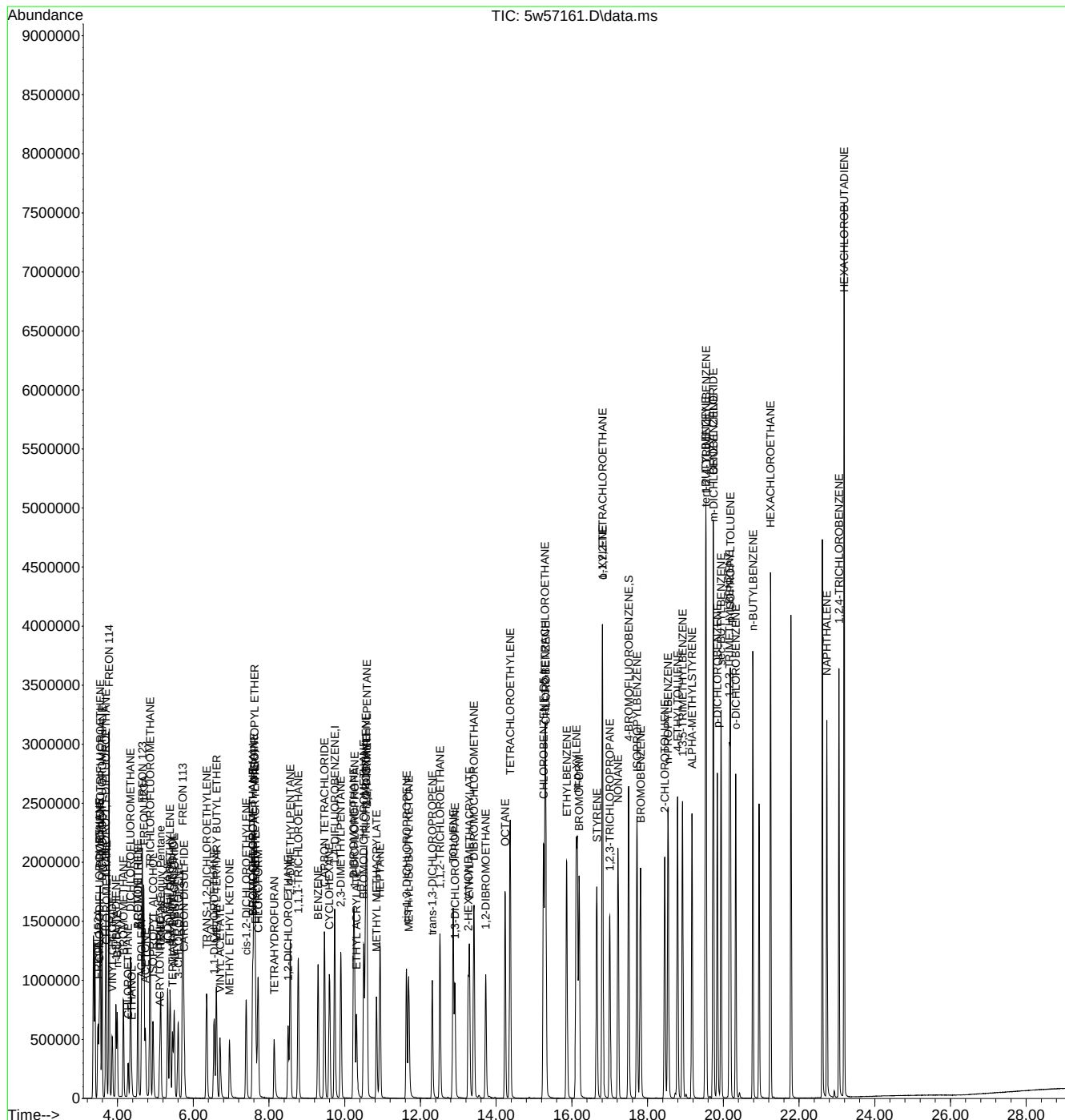
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Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\030425\v5w2193\
Data File : 5w57161.D
Acq On : 3 Mar 2025 1:00 pm
Operator : thomash
Sample : cc2187-10
Misc : MS89870,V5W2193,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 04 10:10:36 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
 Data File : 5w57175.D
 Acq On : 4 Mar 2025 6:53 pm
 Operator : thomash
 Sample : cc2187-10 Inst : GCMS5W
 Misc : MS89870,V5W2194,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:11:54 2025

Quant Method : C:\msdchem\1\methods\M5w2187.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 14:22:14 2025

Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.559	128	349523	10.00	PPBV	-0.01
51) 1,4-DIFLUOROBENZENE	9.731	114	1597208	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.249	82	861495	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.559	128	349523	10.00	PPBV	#-0.01

System Monitoring Compounds

85) 4-BROMOFLUOROBENZENE 17.494 95 1094016 9.85 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 98.50%

Target Compounds

Qvalue

3) FREON 152A	3.472	65	280854	10.3784	PPBV	97
4) CHLORODIFLUOROMETHANE	3.509	67	131483	10.6781	PPBV	99
5) CHLOROTRIFLUOROETHENE	3.533	116	641636	10.5547	PPBV	97
6) DICHLORODIFLUOROMETHANE	3.582	85	1278114	11.5548	PPBV	99
7) PROPYLENE	3.527	41	296084	9.7614	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	3.680	65	1238528	13.2447	PPBV	99
9) FREON 114	3.766	85	1573984	13.3834	PPBV	95
10) CHLOROMETHANE	3.699	52	172581	12.2644	PPBV	96
11) VINYL CHLORIDE	3.852	62	571043	12.9194	PPBV	100
12) 1,3-BUTADIENE	3.949	54	390155	13.8129	PPBV	99
13) n-BUTANE	3.986	43	612109	13.3091	PPBV	98
14) BROMOMETHANE	4.145	94	583191	12.3057	PPBV	99
15) CHLOROETHANE	4.268	64	263709	12.3305	PPBV	99
16) DICHLOROFLUOROMETHANE	4.335	67	1209949	13.3891	PPBV	99
17) ACETONITRILE	4.525	41	334593	12.6043	PPBV	99
18) ACROLEIN	4.616	56	221328	14.6393	PPBV	99
19) FREON 123	4.641	83	1309774	13.3486	PPBV	97
20) FREON 123A	4.684	117	733994	11.8985	PPBV	86
21) TRICHLOROFLUOROMETHANE	4.849	101	1381037	12.7279	PPBV	100
22) ISOPROPYL ALCOHOL	4.922	45	849317	11.8344	PPBV	99
23) ACETONE	4.720	58	232801	12.9556	PPBV #	1
24) PENTANE	5.130	42	410090	12.5388	PPBV	94
25) IODOMETHANE	5.314	142	1212480	10.8968	PPBV	99
26) 1,1-DICHLOROETHYLENE	5.375	96	368467	10.1131	PPBV	93
27) CARBON DISULFIDE	5.748	76	1058516	10.7969	PPBV	100
28) ETHANOL	4.359	45	233249	13.0637	PPBV	99
29) BROMOETHENE	4.531	106	560123	12.4594	PPBV	99
30) ACRYLONITRILE	5.100	52	318803	13.7717	PPBV	97
31) METHYLENE CHLORIDE	5.485	84	346677	10.2712	PPBV	96
32) 3-CHLOROPROPENE	5.589	76	171881	10.2984	PPBV	99
33) FREON 113	5.711	151	640062	9.4655	PPBV	93
34) TRANS-1,2-DICHLOROETHY...	6.341	96	385685	9.9093	PPBV	96
35) TERTIARY BUTYL ALCOHOL	5.442	59	724150	10.0237	PPBV	100
36) METHYL TERTIARY BUTYL ...	6.598	73	1006047	9.7540	PPBV	99
37) TETRAHYDROFURAN	8.128	72	167900	12.1358	PPBV	98
38) HEXANE	7.596	57	633221	10.6520	PPBV	98
39) VINYL ACETATE	6.696	86	72131	11.7872	PPBV #	91
40) 1,1-DICHLOROETHANE	6.537	63	736887	10.8290	PPBV	100
41) METHYL ETHYL KETONE	6.947	72	177706	12.7004	PPBV	100
42) cis-1,2-DICHLOROETHYLENE	7.388	96	411472	10.0118	PPBV	96
43) DIISOPROPYL ETHER	7.608	59	190331	12.5939	PPBV	99
44) ETHYL ACETATE	7.638	61	140185	13.0162	PPBV #	95
45) METHYL ACRYLATE	7.626	55	773214	11.7388	PPBV	98
46) CHLOROFORM	7.700	83	851650	10.5887	PPBV	99
47) 2,4-DIMETHYLPENTANE	8.556	57	703271	10.4985	PPBV	99
48) 1,1,1-TRICHLOROETHANE	8.764	97	856375	10.1232	PPBV	98
49) CARBON TETRACHLORIDE	9.455	117	930694	9.7849	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57175.D
Acq On : 4 Mar 2025 6:53 pm
Operator : thomash
Sample : cc2187-10 Inst : GCMS5W
Misc : MS89870,V5W2194,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:11:54 2025

Quant Method : C:\msdchem\1\methods\M5w2187.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 14:22:14 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.495	62	585348	10.6095	PPBV	100
52) BENZENE	9.290	78	1176065	10.6275	PPBV	100
53) CYCLOHEXANE	9.590	84	465607	10.3390	PPBV	96
54) 2,3-DIMETHYLPENTANE	9.896	71	238996	10.6435	PPBV	97
55) TRICHLOROETHYLENE	10.544	95	570140	9.9795	PPBV	94
56) 1,2-DICHLOROPROPANE	10.251	63	471190	10.3187	PPBV	97
57) DIBROMOMETHANE	10.226	174	571630	8.8915	PPBV	94
58) ETHYL ACRYLATE	10.306	55	919180	12.5613	PPBV	99
59) BROMODICHLOROMETHANE	10.502	83	978313	10.1692	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.581	57	1910350	10.9766	PPBV	99
61) 1,4-DIOXANE	10.563	88	274011	10.9370	PPBV #	83
62) HEPTANE	10.924	43	632905	10.6588	PPBV	99
63) METHYL METHACRYLATE	10.838	69	411439	11.9726	PPBV	98
64) METHYL ISOBUTYL KETONE	11.688	58	383984	11.9644	PPBV	97
65) cis-1,3-DICHLOROPROPENE	11.627	75	764864	10.5914	PPBV	98
66) TOLUENE	12.857	92	826526	10.0608	PPBV	99
67) 1,3-DICHLOROPROPANE	12.906	76	695635	10.7941	PPBV #	100
68) trans-1,3-DICHLOROPROPENE	12.306	75	679505	10.3375	PPBV	99
69) 1,1,2-TRICHLOROETHANE	12.514	83	473971	10.5656	PPBV	97
71) 2-HEXANONE	13.255	58	552206	12.5267	PPBV	99
72) ETHYL METHACRYLATE	13.291	69	716182	11.1629	PPBV	99
73) TETRACHLOROETHYLENE	14.368	164	627381	9.0266	PPBV	99
74) DIBROMOCHLOROMETHANE	13.407	129	1036921	9.2462	PPBV	99
75) 1,2-DIBROMOETHANE	13.726	107	883506	9.9184	PPBV	100
76) OCTANE	14.233	43	921395	10.1168	PPBV	98
77) 1,1,1,2-TETRACHLOROETHANE	15.292	131	698760	9.3904	PPBV	96
78) CHLOROBENZENE	15.310	112	1186450	9.4564	PPBV	97
79) ETHYLBENZENE	15.861	91	1857065	9.8760	PPBV	98
80) m,p-XYLENE	16.118	106	1416086	18.7524	PPBV	97
81) o-XYLENE	16.809	106	700806	9.6828	PPBV	95
82) STYRENE	16.656	104	1089379	9.7998	PPBV	99
83) NONANE	17.219	43	935255	9.4275	PPBV	100
84) BROMOFORM	16.191	173	1146867	10.2118	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	16.809	83	1254097	10.5384	PPBV	98
87) 1,2,3-TRICHLOROPROPANE	16.999	75	847299	9.6510	PPBV	96
88) ISOPROPYLBENZENE	17.720	105	1978249	9.2190	PPBV	98
89) BROMOBENZENE	17.812	77	1001612	9.1076	PPBV	95
90) 2-CHLOROTOLUENE	18.455	126	529126	8.7808	PPBV	99
91) n-PROPYLBENZENE	18.540	120	547360	9.0929	PPBV	99
92) 4-ETHYLTOLUENE	18.791	105	2017963	9.6412	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	18.926	105	1667017	9.1489	PPBV	98
94) ALPHA-METHYLSTYRENE	19.170	118	851503	9.1355	PPBV	99
95) tert-BUTYLBENZENE	19.531	134	393933	9.6052	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	19.544	105	1798496	9.9483	PPBV	97
97) m-DICHLOROBENZENE	19.739	146	1315993	9.0467	PPBV	99
98) BENZYL CHLORIDE	19.733	91	1606538	10.3069	PPBV	97
99) p-DICHLOROBENZENE	19.843	146	1281747	8.5903	PPBV	100
100) sec-BUTYLBENZENE	19.941	134	463448	9.2401	PPBV #	89
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	1747699	9.2835	PPBV #	97
102) p-ISOPROPYLTOLUENE	20.186	134	535912	9.3035	PPBV	96
103) o-DICHLOROBENZENE	20.327	146	1200016	8.6244	PPBV	99
104) n-BUTYLBENZENE	20.785	134	534662	9.5534	PPBV #	83
105) HEXACHLOROETHANE	21.244	117	898978	10.1809	PPBV	100
106) HEXACHLOROBUTADIENE	23.190	225	1264838	9.7250	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.055	180	1164858	9.9885	PPBV	99
108) NAPHTHALENE	22.737	128	2502877	9.5872	PPBV	100
110) TVHC as equiv Pentane	5.130	TIC	2976059	12.3025	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57175.D
Acq On : 4 Mar 2025 6:53 pm
Operator : thomash
Sample : cc2187-10 Inst : GCMS5W
Misc : MS89870,V5W2194,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 05 16:11:54 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

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

7.7.23

7

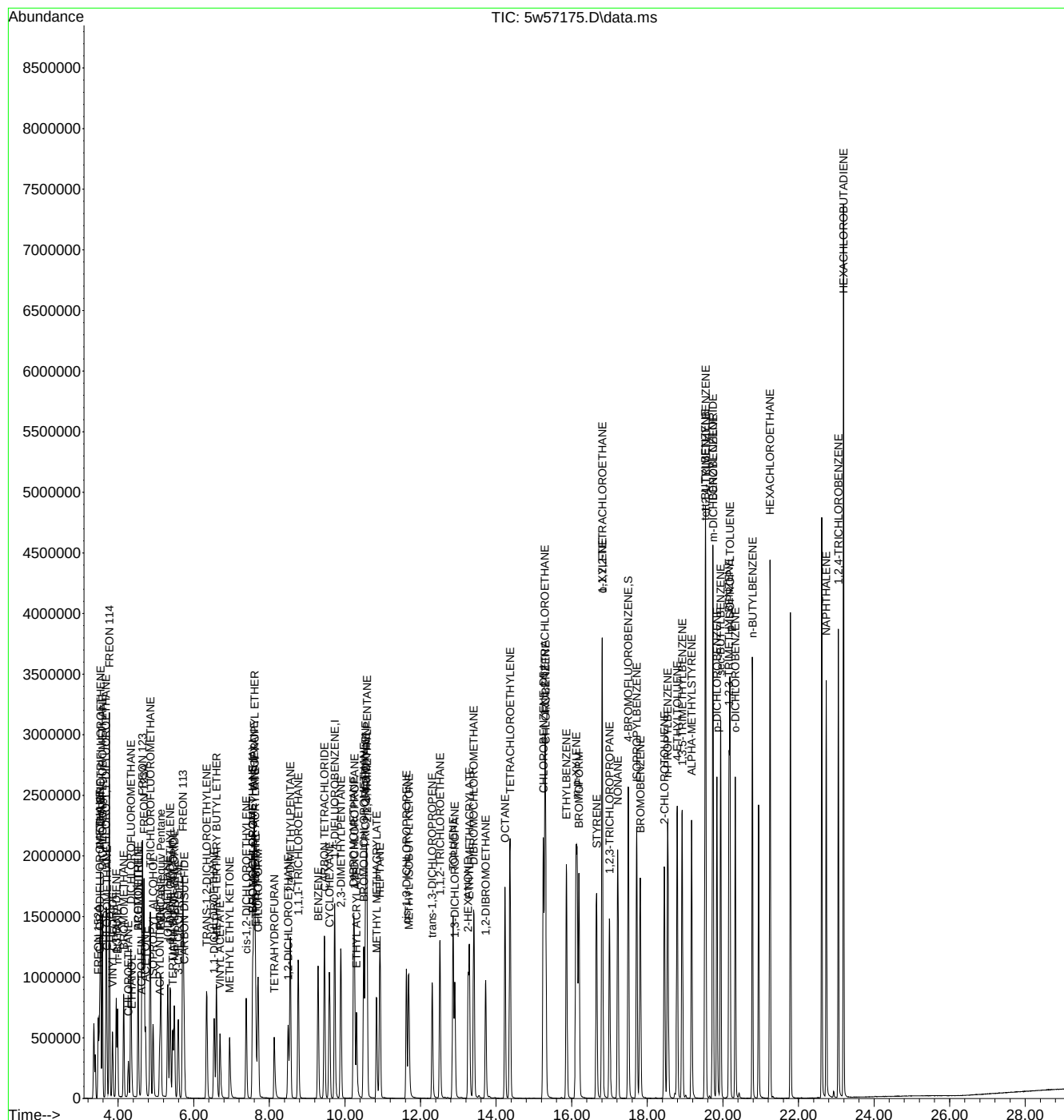
Quantitation Report (QT Reviewed)

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Data Path : X:\Dayton VOA GCMS\antonettec\2025\March\03-05-2025\V5W2194\
Data File : 5w57175.D
Acq On    : 4 Mar 2025    6:53 pm
Operator  : thomash
Sample    : cc2187-10
Misc      : MS89870,V5W2194,,,,,1
ALS Vial  : 2
Sample Multiplier: 1
Inst      : GCMS5W

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Quant Time: Mar 05 16:11:54 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



7.7.23

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
 Data File : 5w57222.D
 Acq On : 6 Mar 2025 1:10 pm
 Operator : thomash
 Sample : cc2187-10 Inst : GCMS5W
 Misc : MS89870,V5W2196,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:45:37 2025
 Quant Method : C:\msdchem\1\methods\M5w2187.M
 Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
 QLast Update : Mon Feb 24 14:22:14 2025
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	7.571	128	316683	10.00	PPBV	0.00
51) 1,4-DIFLUOROBENZENE	9.737	114	1454309	10.00	PPBV	0.00
70) CHLOROBENZENE-D5	15.255	82	767190	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	7.571	128	316683	10.00	PPBV	# 0.00

System Monitoring Compounds
 85) 4-BROMOFLUOROBENZENE 17.500 95 969644 9.80 PPBV 0.00
 Spiked Amount 10.000 Range 65 - 128 Recovery = 98.00%

Target Compounds					Qvalue	
3) FREON 152A	3.484	65	224415	9.1528	PPBV	94
4) CHLORODIFLUOROMETHANE	3.515	67	107742	9.6574	PPBV	99
5) CHLOROTRIFLUOROETHENE	3.539	116	548087	9.9508	PPBV	98
6) DICHLORODIFLUOROMETHANE	3.588	85	1054754	10.5243	PPBV	99
7) PROPYLENE	3.533	41	217494	7.9140	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROETHYLENE	3.686	65	1073542	12.6709	PPBV	98
9) FREON 114	3.772	85	1410933	13.2411	PPBV	95
10) CHLOROMETHANE	3.705	52	144365	11.3231	PPBV	96
11) VINYL CHLORIDE	3.858	62	473384	11.8205	PPBV	99
12) 1,3-BUTADIENE	3.955	54	300644	11.7477	PPBV	100
13) n-BUTANE	3.992	43	463338	11.1190	PPBV	98
14) BROMOMETHANE	4.151	94	525254	12.2326	PPBV	99
15) CHLOROETHANE	4.280	64	222725	11.4942	PPBV	98
16) DICHLOROFLUOROMETHANE	4.341	67	1054340	12.8770	PPBV	99
17) ACETONITRILE	4.537	41	259109	10.7730	PPBV	99
18) ACROLEIN	4.628	56	173167	12.6415	PPBV	96
19) FREON 123	4.653	83	1186426	13.3453	PPBV	98
20) FREON 123A	4.696	117	688005	12.3095	PPBV	94
21) TRICHLOROFLUOROMETHANE	4.855	101	1283320	13.0538	PPBV	100
22) ISOPROPYL ALCOHOL	4.940	45	767202	11.7988	PPBV	100
23) ACETONE	4.739	58	194845	11.9678	PPBV #	1
24) PENTANE	5.142	42	288433	9.7336	PPBV	99
25) IODOMETHANE	5.326	142	1010116	10.0195	PPBV	97
26) 1,1-DICHLOROETHYLENE	5.387	96	336615	10.1970	PPBV	100
27) CARBON DISULFIDE	5.754	76	938269	10.5629	PPBV	99
28) ETHANOL	4.378	45	204634	12.6496	PPBV	98
29) BROMOETHENE	4.537	106	522793	12.8350	PPBV	99
30) ACRYLONITRILE	5.112	52	223991	10.6794	PPBV	99
31) METHYLENE CHLORIDE	5.497	84	312067	10.2046	PPBV	95
32) 3-CHLOROPROPENE	5.601	76	153103	10.1245	PPBV #	86
33) FREON 113	5.723	151	576976	9.4174	PPBV	90
34) TRANS-1,2-DICHLOROETHYLENE	6.354	96	351730	9.9740	PPBV	99
35) TERTIARY BUTYL ALCOHOL	5.454	59	609350	9.3093	PPBV	98
36) METHYL TERTIARY BUTYL ETHER	6.611	73	897296	9.6018	PPBV	98
37) TETRAHYDROFURAN	8.140	72	151613	12.0950	PPBV	91
38) HEXANE	7.602	57	545476	10.1275	PPBV	94
39) VINYL ACETATE	6.708	86	63527	11.4577	PPBV #	87
40) 1,1-DICHLOROETHANE	6.549	63	645285	10.4662	PPBV	100
41) METHYL ETHYL KETONE	6.959	72	157092	12.3914	PPBV #	87
42) cis-1,2-DICHLOROETHYLENE	7.400	96	383137	10.2891	PPBV	98
43) DIISOPROPYL ETHER	7.614	59	165138	12.0601	PPBV #	88
44) ETHYL ACETATE	7.651	61	124716	12.7807	PPBV #	96
45) METHYL ACRYLATE	7.632	55	658995	11.0422	PPBV	99
46) CHLOROFORM	7.712	83	778696	10.6857	PPBV	98
47) 2,4-DIMETHYLPENTANE	8.562	57	604875	9.9660	PPBV	100
48) 1,1,1-TRICHLOROETHANE	8.776	97	788831	10.2917	PPBV	99
49) CARBON TETRACHLORIDE	9.467	117	863931	10.0248	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
 Data File : 5w57222.D
 Acq On : 6 Mar 2025 1:10 pm
 Operator : thomash
 Sample : cc2187-10 Inst : GCMS5W
 Misc : MS89870,V5W2196,,,,,1
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:45:37 2025

Quant Method : C:\msdchem\1\methods\M5w2187.M

Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um

QLast Update : Mon Feb 24 14:22:14 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 1,2-DICHLOROETHANE	8.507	62	522039	10.4433	PPBV	100
52) BENZENE	9.296	78	1066440	10.5838	PPBV	99
53) CYCLOHEXANE	9.602	84	420219	10.2480	PPBV	99
54) 2,3-DIMETHYLPENTANE	9.902	71	212971	10.4165	PPBV	97
55) TRICHLOROETHYLENE	10.556	95	528150	10.1528	PPBV	94
56) 1,2-DICHLOROPROPANE	10.263	63	421148	10.1291	PPBV	98
57) DIBROMOMETHANE	10.238	174	488469	8.3445	PPBV	88
58) ETHYL ACRYLATE	10.318	55	788164	11.8292	PPBV	99
59) BROMODICHLOROMETHANE	10.508	83	900032	10.2747	PPBV	98
60) 2,2,4-TRIMETHYLPENTANE	10.587	57	1651329	10.4206	PPBV	99
61) 1,4-DIOXANE	10.575	88	250085	10.9628	PPBV #	58
62) HEPTANE	10.936	43	524164	9.6949	PPBV	94
63) METHYL METHACRYLATE	10.844	69	367904	11.7577	PPBV	90
64) METHYL ISOBUTYL KETONE	11.694	58	333433	11.4101	PPBV	93
65) cis-1,3-DICHLOROPROPENE	11.633	75	688250	10.4670	PPBV	95
66) TOLUENE	12.869	92	761632	10.1818	PPBV	99
67) 1,3-DICHLOROPROPANE	12.912	76	626398	10.6748	PPBV #	99
68) trans-1,3-DICHLOROPROPENE	12.312	75	607340	10.1475	PPBV	96
69) 1,1,2-TRICHLOROETHANE	12.520	83	432801	10.5959	PPBV	97
71) 2-HEXANONE	13.267	58	477179	12.1553	PPBV	94
72) ETHYL METHACRYLATE	13.297	69	644931	11.2880	PPBV	94
73) TETRACHLOROETHYLENE	14.374	164	535259	8.6478	PPBV	95
74) DIBROMOCHLOROMETHANE	13.413	129	969608	9.7088	PPBV	99
75) 1,2-DIBROMOETHANE	13.732	107	816745	10.2960	PPBV	100
76) OCTANE	14.239	43	760464	9.3762	PPBV	96
77) 1,1,1,2-TETRACHLOROETHANE	15.298	131	642684	9.6985	PPBV	96
78) CHLOROBENZENE	15.310	112	1091571	9.7697	PPBV	98
79) ETHYLBENZENE	15.867	91	1699772	10.1507	PPBV	98
80) m,p-XYLENE	16.117	106	1298742	19.3126	PPBV	95
81) o-XYLENE	16.809	106	642547	9.9691	PPBV	95
82) STYRENE	16.662	104	1000655	10.1082	PPBV	100
83) NONANE	17.225	43	778307	8.8098	PPBV	97
84) BROMOFORM	16.197	173	987575	9.8744	PPBV	99
86) 1,1,2,2-TETRACHLOROETHANE	16.815	83	1128152	10.6454	PPBV	98
87) 1,2,3-TRICHLOROPROPANE	17.005	75	749024	9.5804	PPBV	98
88) ISOPROPYLBENZENE	17.720	105	1815634	9.5013	PPBV	98
89) BROMOBENZENE	17.812	77	899120	9.1806	PPBV	92
90) 2-CHLOROTOLUENE	18.454	126	484074	9.0207	PPBV	100
91) n-PROPYLBENZENE	18.546	120	502983	9.3828	PPBV	99
92) 4-ETHYLTOLUENE	18.791	105	1837988	9.8607	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	18.925	105	1528728	9.4212	PPBV	98
94) ALPHA-METHYLSTYRENE	19.176	118	774246	9.3277	PPBV	99
95) tert-BUTYLBENZENE	19.531	134	350909	9.6079	PPBV	96
96) 1,2,4-TRIMETHYLBENZENE	19.549	105	1637882	10.1735	PPBV	97
97) m-DICHLOROBENZENE	19.739	146	1148947	8.8692	PPBV	99
98) BENZYL CHLORIDE	19.733	91	1448825	10.4377	PPBV	98
99) p-DICHLOROBENZENE	19.843	146	1123601	8.4561	PPBV	99
100) sec-BUTYLBENZENE	19.941	134	416406	9.3227	PPBV #	86
101) 1,2,3-TRIMETHYLBENZENE	20.161	105	1578363	9.4146	PPBV #	97
102) p-ISOPROPYLTOLUENE	20.192	134	481534	9.3871	PPBV	94
103) o-DICHLOROBENZENE	20.333	146	1046684	8.4471	PPBV	99
104) n-BUTYLBENZENE	20.785	134	470791	9.4462	PPBV #	81
105) HEXACHLOROETHANE	21.250	117	827471	10.5231	PPBV	95
106) HEXACHLOROBUTADIENE	23.196	225	1016574	8.7769	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	23.061	180	911328	8.7751	PPBV	100
108) NAPHTHALENE	22.737	128	2205274	9.4856	PPBV	100
110) TVHC as equiv Pentane	5.136	TIC	2066725	9.4294	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
Data File : 5w57222.D
Acq On : 6 Mar 2025 1:10 pm
Operator : thomash
Sample : cc2187-10 Inst : GCMS5W
Misc : MS89870,V5W2196,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 07 07:45:37 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration

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

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

7.7.24

7

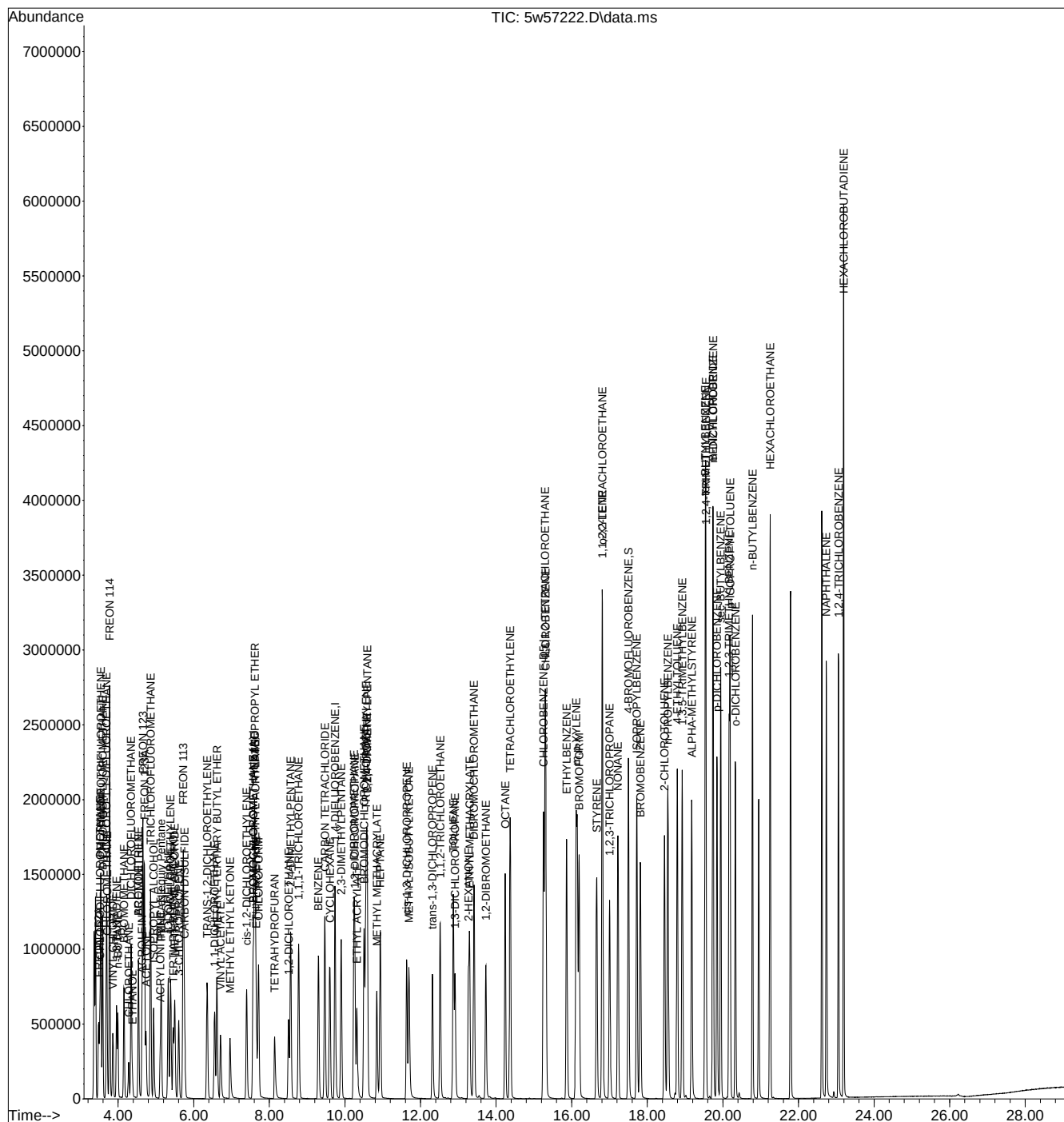
Quantitation Report (QT Reviewed)

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Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\v5w2196\
Data File : 5w57222.D
Acq On    : 6 Mar 2025 1:10 pm
Operator  : thomash
Sample    : cc2187-10                      Inst      : GCMS5W
Misc      : MS89870,V5W2196,,,,,1
ALS Vial  : 1      Sample Multiplier: 1

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Quant Time: Mar 07 07:45:37 2025
Quant Method : C:\msdchem\1\methods\M5w2187.M
Quant Title : T015 by GCMS w/Rtx-1, 60 m X 0.32mm ID X 1.0 um
QLast Update : Mon Feb 24 14:22:14 2025
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 19:36:55 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.223	128	135115	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.490	114	681342	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.029	117	623287	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.223	128	135115	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.383	95	446738	9.86	PPBV	0.00
Target Compounds						
						Qvalue
2) FREON 115	1.596	119	481	0.04	PPBV	97
3) FREON 152A	1.628	65	207m	0.03	PPBV	
4) CHLORODIFLUOROMETHANE	1.638	67	132	0.04	PPBV #	40
5) CHLOROTRIFLUOROETHENE	1.650	116	547	0.03	PPBV	98
6) DICHLORODIFLUOROMETHANE	1.666	85	1186	0.03	PPBV #	87
7) PROPYLENE	1.650	41	502	0.06	PPBV #	60
8) 1-CHLORO-1,1-DIFLUOROETHENE	1.702	65	979	0.04	PPBV #	71
9) FREON 114	1.737	85	987	0.04	PPBV	93
10) CHLOROMETHANE	1.711	52	181	0.05	PPBV	81
11) VINYL CHLORIDE	1.773	62	372	0.03	PPBV #	81
12) 1,3-BUTADIENE	1.808	54	595	0.07	PPBV #	22
13) N-BUTANE	1.824	43	1027	0.06	PPBV #	1
14) BROMOMETHANE	1.882	94	453	0.05	PPBV #	61
15) CHLOROETHANE	1.933	64	271	0.04	PPBV	85
16) DICHLOROFLUOROMETHANE	1.959	67	870	0.04	PPBV	95
17) ACETONITRILE	2.027	41	415m	0.04	PPBV	
18) ACROLEIN	2.062	56	289m	0.05	PPBV	
19) FREON 123	2.072	83	1077	0.04	PPBV	89
20) FREON 123A	2.091	117	665	0.04	PPBV	98
21) TRICHLOROFLUOROMETHANE	2.155	101	993	0.03	PPBV #	84
22) ISOPROPYL ALCOHOL	2.187	45	1113	0.04	PPBV #	64
23) ACETONE	2.104	58	492	0.07	PPBV	82
24) PENTANE	2.271	42	559	0.05	PPBV #	43
25) IODOMETHANE	2.332	142	957	0.03	PPBV	95
26) 1,1-DICHLOROETHYLENE	2.358	96	627	0.06	PPBV #	63
27) CARBON DISULFIDE	2.490	76	1027	0.03	PPBV #	66
28) ETHANOL	1.966	45	1506	0.14	PPBV	93
29) BROMOETHENE	2.030	106	456	0.04	PPBV #	96
30) ACRYLONITRILE	2.239	52	746	0.08	PPBV #	70
31) METHYLENE CHLORIDE	2.396	84	1398	0.12	PPBV	88
32) 3-CHLOROPROPENE	2.435	76	208	0.04	PPBV #	25
33) FREON 113	2.490	151	596	0.03	PPBV	91
34) TRANS-1,2-DICHLOROETHENE	2.721	96	582	0.05	PPBV #	66
35) TERTIARY BUTYL ALCOHOL	2.400	59	999	0.03	PPBV #	29
36) METHYL TERTIARY BUTYL ...	2.830	73	1395	0.04	PPBV #	68
37) TETRAHYDROFURAN	3.544	72	121	0.02	PPBV #	1
38) HEXANE	3.281	57	1034	0.05	PPBV	80
39) VINYL ACETATE	2.859	86	94	0.03	PPBV #	1
40) 1,1-DICHLOROETHANE	2.789	63	752	0.03	PPBV #	70
41) METHYL ETHYL KETONE	2.969	72	186	0.03	PPBV #	1
42) CIS-1,2-DICHLOROETHENE	3.149	96	425	0.03	PPBV	94
43) DIISOPROPYL ETHER	3.287	59	224	0.04	PPBV	89
44) ETHYL ACETATE	3.303	61	143	0.03	PPBV #	59
45) METHYL ACRYLATE	3.281	55	833	0.03	PPBV #	88
46) CHLOROFORM	3.293	83	952	0.04	PPBV	95
47) 2,4-DIMETHYLPENTANE	3.782	57	1020	0.04	PPBV	92
48) 1,1,1-TRICHLOROETHANE	3.866	97	955	0.04	PPBV	92
49) CARBON TETRACHLORIDE	4.284	117	740	0.03	PPBV	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 19:36:55 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.702	62	665	0.04	PPBV #	91
51)	BENZENE	4.174	78	1541	0.04	PPBV	97
53)	CYCLOHEXANE	4.371	84	625	0.04	PPBV #	75
54)	2,3-DIMETHYLPENTANE	4.628	71	389	0.05	PPBV #	97
55)	TRICHLOROETHENE	5.062	95	555	0.03	PPBV	96
56)	1,2-DICHLOROPROPANE	4.827	63	530	0.04	PPBV #	83
57)	DIBROMOMETHANE	4.785	174	759	0.05	PPBV	93
58)	ETHYL ACRYLATE	4.965	55	1009	0.03	PPBV #	95
59)	BROMODICHLOROMETHANE	4.998	83	901	0.03	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	5.152	57	2462	0.04	PPBV #	89
61)	1,4-DIOXANE	5.226	88	244	0.02	PPBV #	47
62)	HEPTANE	5.470	43	805	0.03	PPBV #	77
63)	METHYL METHACRYLATE	5.370	69	643	0.04	PPBV #	76
64)	METHYL ISOBUTYL KETONE	6.133	58	435	0.03	PPBV #	81
65)	CIS-1,3-DICHLOROPROPENE	5.994	75	735	0.03	PPBV #	73
66)	TOLUENE	7.187	91	2041	0.04	PPBV	89
67)	1,3-DICHLOROPROPANE	7.239	76	755	0.03	PPBV #	74
68)	TRANS-1,3-DICHLOROPROPENE	6.666	75	643	0.03	PPBV	97
69)	1,1,2-TRICHLOROETHANE	6.827	83	477	0.04	PPBV	100
70)	2-HEXANONE	7.817	58	587	0.03	PPBV #	59
71)	ETHYL METHACRYLATE	7.904	69	1154	0.05	PPBV #	84
72)	TETRACHLOROETHENE	8.904	164	711	0.04	PPBV	95
73)	DIBROMOCHLOROMETHANE	7.721	129	828	0.03	PPBV	94
74)	1,2-DIBROMOETHANE	8.052	107	793	0.03	PPBV #	96
75)	OCTANE	9.058	43	1306	0.04	PPBV	86
77)	1,1,1,2-TETRACHLOROETHANE	10.107	131	628	0.03	PPBV #	78
78)	CHLOROBENZENE	10.103	112	1266	0.03	PPBV	85
79)	ETHYLBENZENE	10.988	91	2859	0.05	PPBV	88
80)	M,P-XYLENE	11.422	91	3729m	0.08	PPBV	
81)	O-XYLENE	12.354	91	2008	0.04	PPBV	98
82)	STYRENE	12.152	104	1076	0.03	PPBV	95
83)	NONANE	13.460	43	1432	0.04	PPBV	85
84)	BROMOFORM	11.229	173	696	0.03	PPBV #	79
85)	1,1,2,2-TETRACHLOROETHANE	12.354	83	1109	0.03	PPBV #	94
86)	1,2,3-TRICHLOROPROPANE	12.644	75	809	0.03	PPBV #	99
88)	ISOPROPYLBENZENE	13.862	120	606	0.03	PPBV #	68
89)	BROMOBENZENE	13.721	77	1193	0.03	PPBV #	66
90)	2-CHLOROTOLUENE	14.843	126	445	0.03	PPBV #	43
91)	N-PROPYLBENZENE	15.203	120	527	0.03	PPBV	95
92)	4-ETHYLTOLUENE	15.647	105	2316m	0.03	PPBV	
93)	1,3,5-TRIMETHYLBENZENE	15.910	105	1967	0.03	PPBV	92
94)	ALPHA-METHYLSTYRENE	16.216	118	852	0.03	PPBV	90
95)	TERT-BUTYLBENZENE	16.528	134	479	0.03	PPBV	95
96)	1,2,4-TRIMETHYLBENZENE	16.534	105	2036	0.03	PPBV	98
97)	BENZYL CHLORIDE	16.631	91	1586	0.03	PPBV	90
98)	M-DICHLOROBENZENE	16.598	146	1203	0.03	PPBV	90
99)	P-DICHLOROBENZENE	16.692	146	1243	0.03	PPBV	96
100)	O-DICHLOROBENZENE	17.007	146	1290	0.03	PPBV	95
101)	SEC-BUTYLBENZENE	16.843	134	535	0.03	PPBV	79
102)	1,2,3-TRIMETHYLBENZENE	16.958	105	1962	0.03	PPBV	94
103)	P-ISOPROPYLTOLUENE	17.032	134	596	0.03	PPBV	87
104)	N-BUTYLBENZENE	17.399	134	566	0.03	PPBV	83
105)	HEXACHLOROETHANE	17.576	117	628	0.03	PPBV	91
106)	HEXACHLOROBUTADIENE	18.634	225	926	0.03	PPBV	98
107)	1,2,4-TRICHLOROBENZENE	18.325	180	996	0.03	PPBV	94
108)	NAPHTHALENE	18.376	128	2159	0.03	PPBV	97
110)	VHC as equiv Pentane	2.268	TIC	2517m	0.04	PPBV	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 19:36:55 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration

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

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

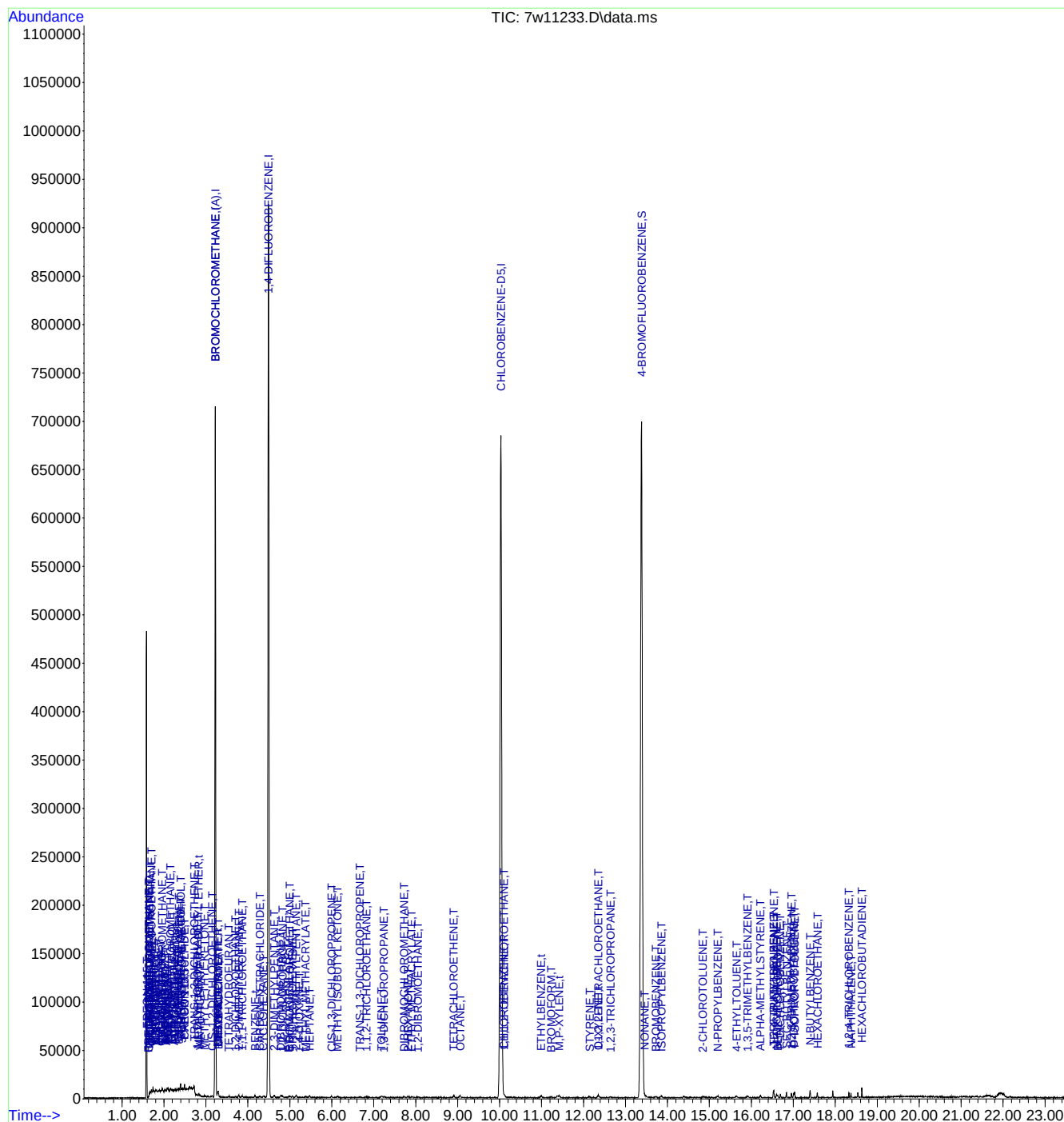
7.7.25

7

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\7w\  
Data File : 7w11233.D  
Acq On : 28 Dec 2024 9:16 am  
Operator : benk  
Sample : ic405-0.04  
Misc : MS74014,v7w405,,,,,1  
ALS Vial : 2 Sample Multiplier: 1
```

Quant Time: Dec 29 19:36:55 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:

V7W405-IC405

Method:

TO-15

Lab FileID:

7W11233.D

Analyst approved:

12/30/24 00:11 Kanya Veerawat

Injection Time:

12/28/24 09:16

Supervisor approved:

12/30/24 00:15 Kanya Veerawat

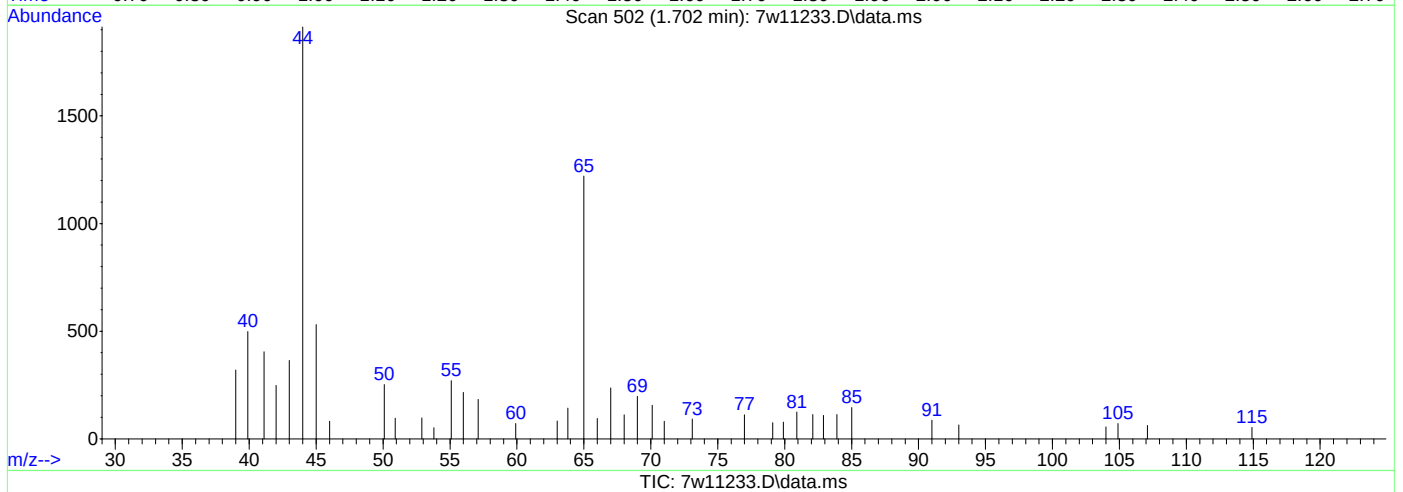
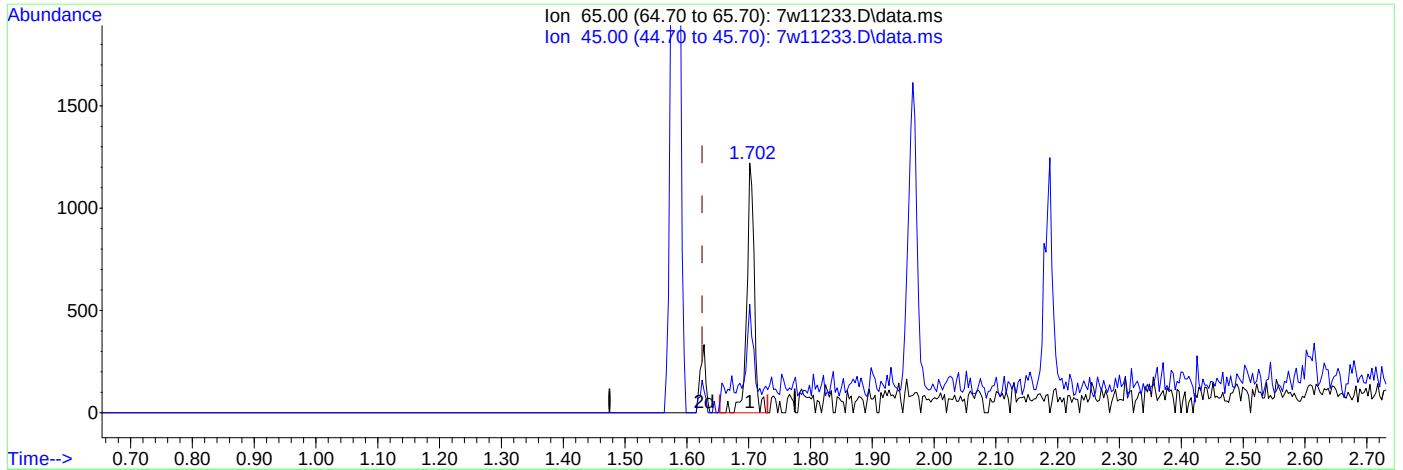
Parameter	CAS	Sig#	R.T. (min.)	Reason
Freon 152A	75-37-6		1.63	Missed peak
Acetonitrile	75-05-8		2.03	Poor instrument integration
Acrolein	107-02-8		2.06	Missed peak
TVHC As Equiv Pentane			2.27	Missed peak
m,p-Xylene			11.42	Split peak
4-Ethyltoluene	622-96-8		15.65	Split peak

7.7.25.1
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:15:10 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(3) FREON 152A (T)

1.702min (+0.077) 0.15PPBV

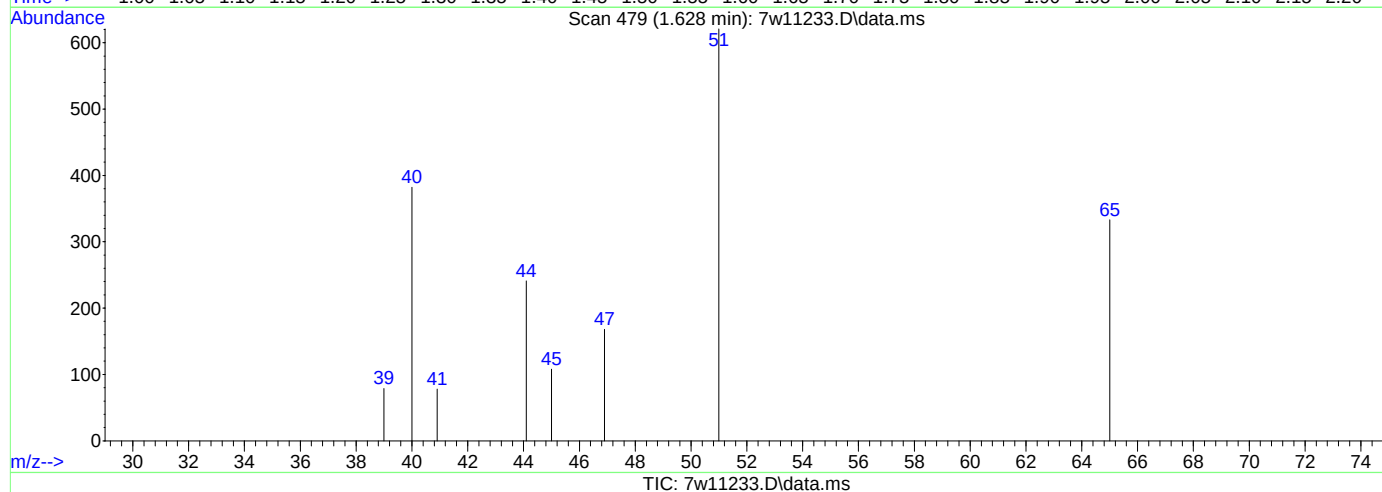
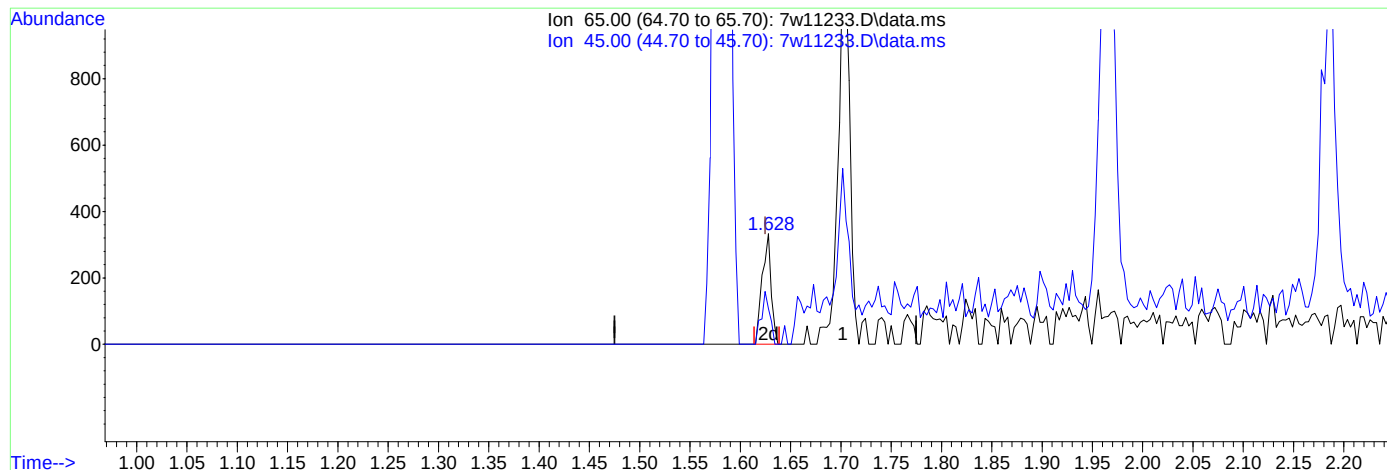
response 989

Ion	Exp%	Act%
65.00	100	100
45.00	33.60	34.18
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:15:10 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(3) FREON 152A (T)

1.628min (+0.003) 0.03PPBV m

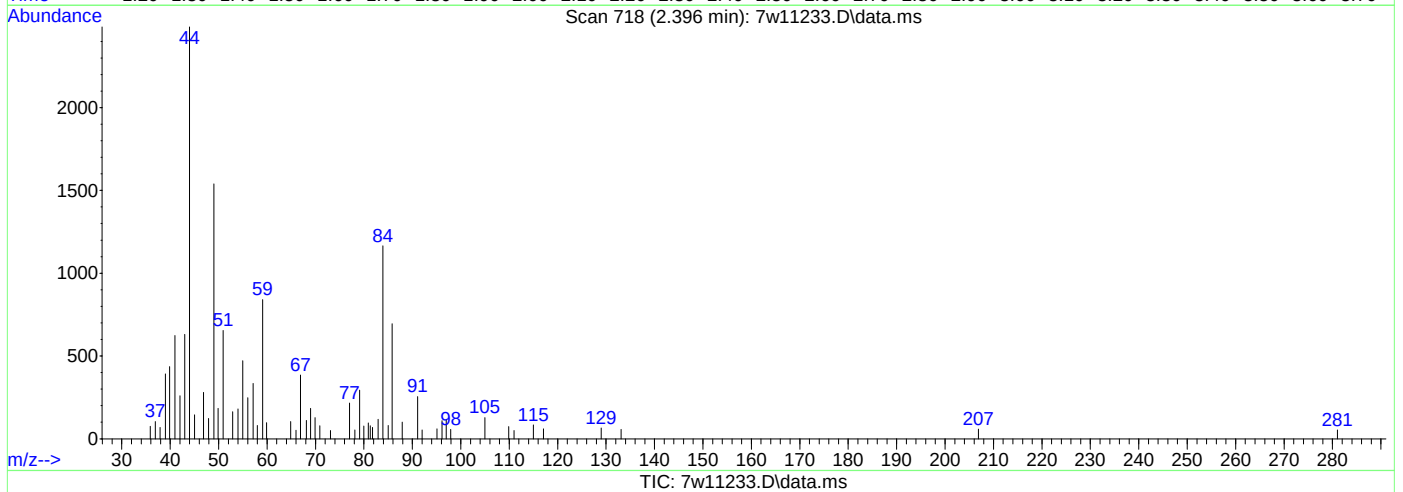
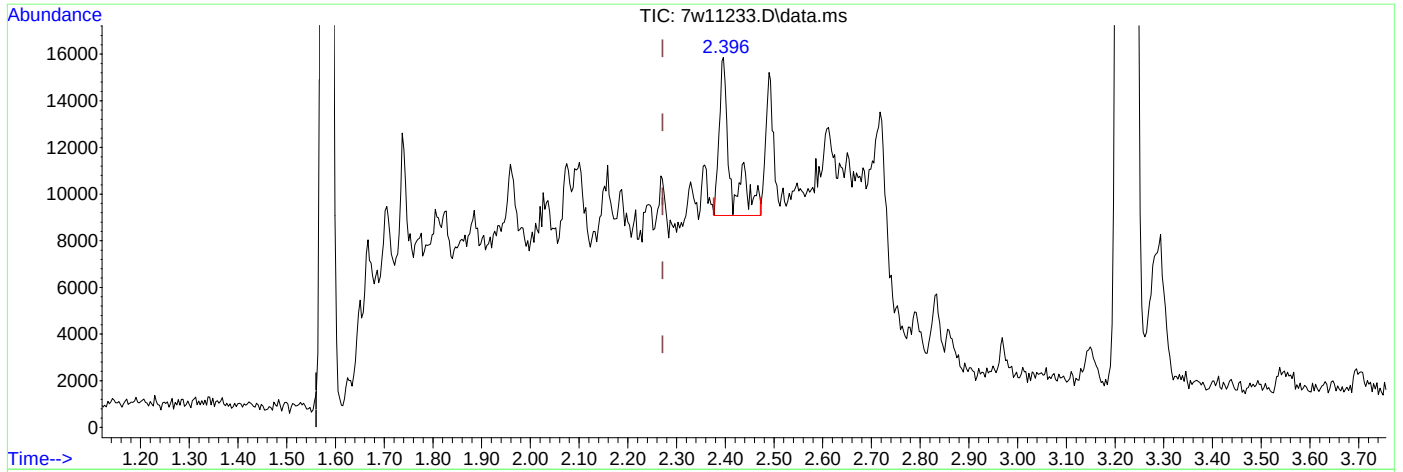
response 207

Ion	Exp%	Act%
65.00	100	100
45.00	33.60	163.29#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:15:10 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(110) TVHC as equiv Pentane

2.396min (+0.125) 0.20PPBV

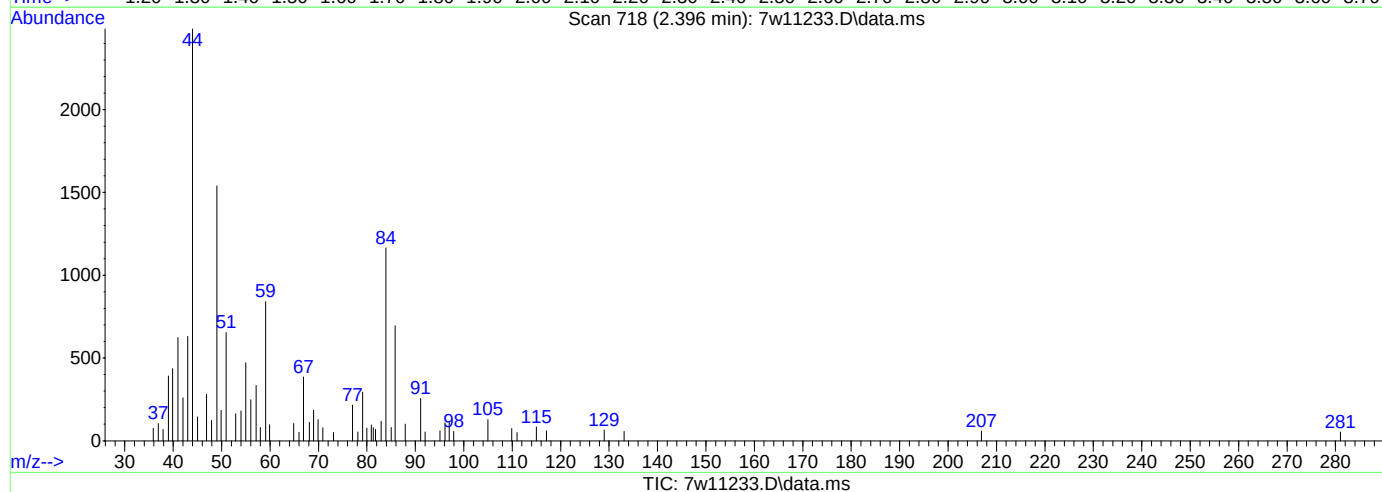
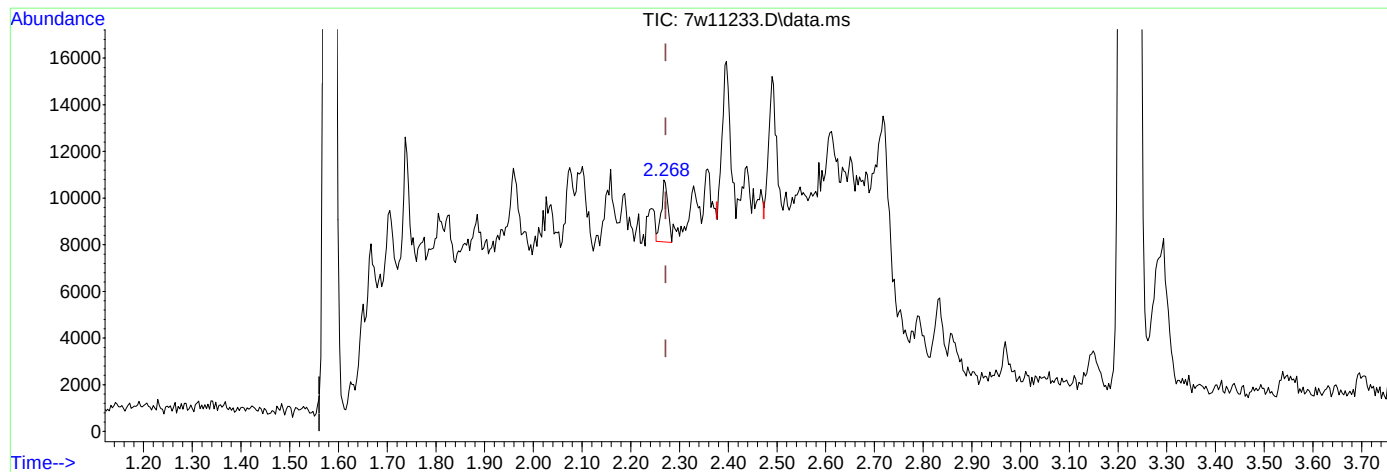
response 11422

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:15:10 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(110) TVHC as equiv Pentane

2.268min (-0.003) 0.04PPBV m

response 2517

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

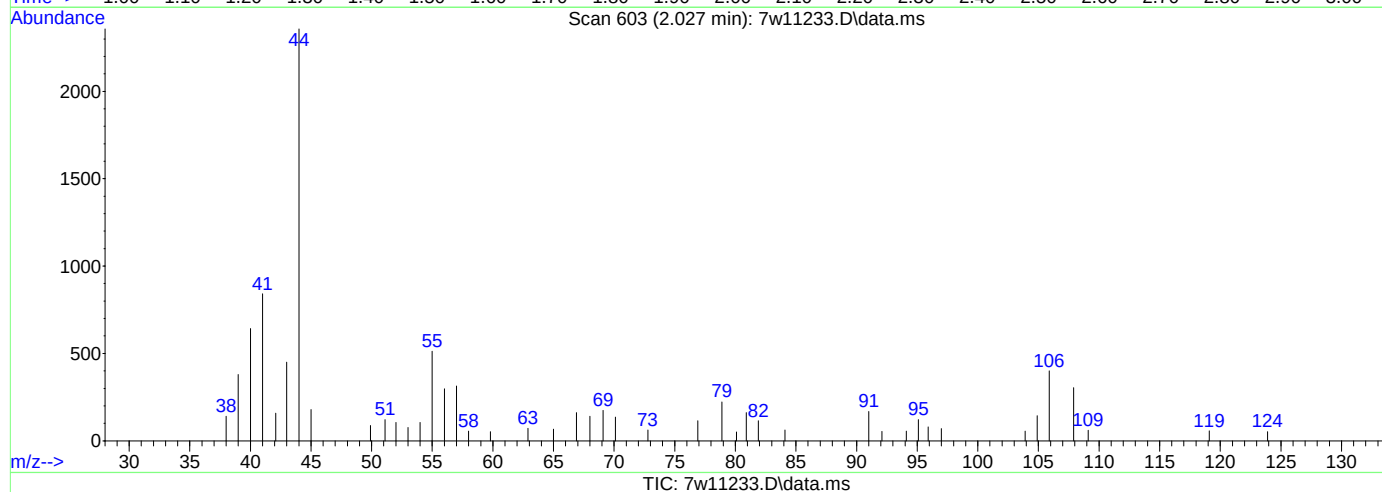
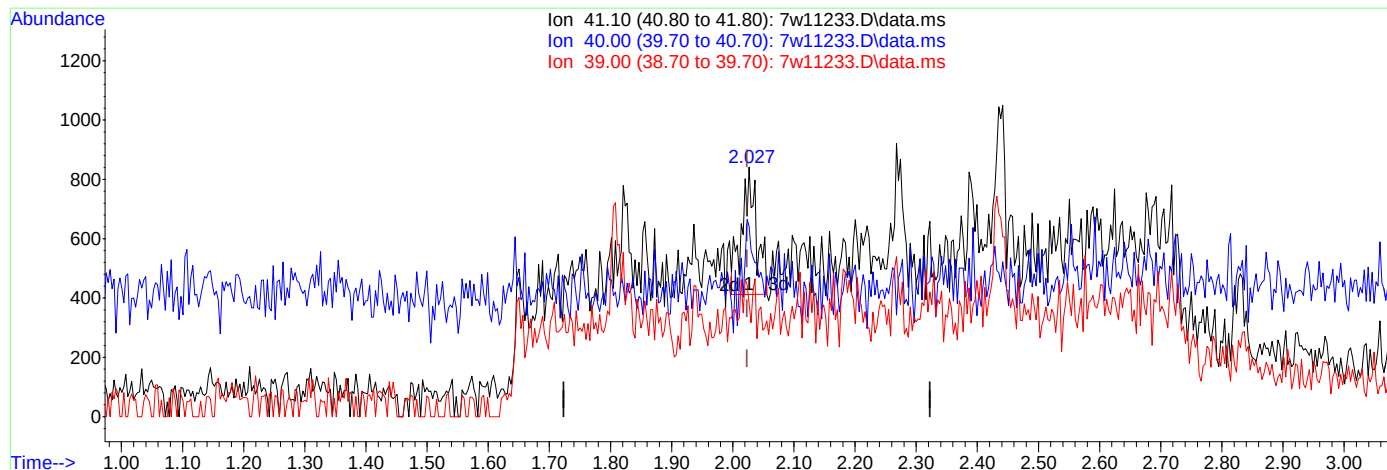
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:17:36 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(17) ACETONITRILE (T)

2.027min (+0.004) 0.07PPBV

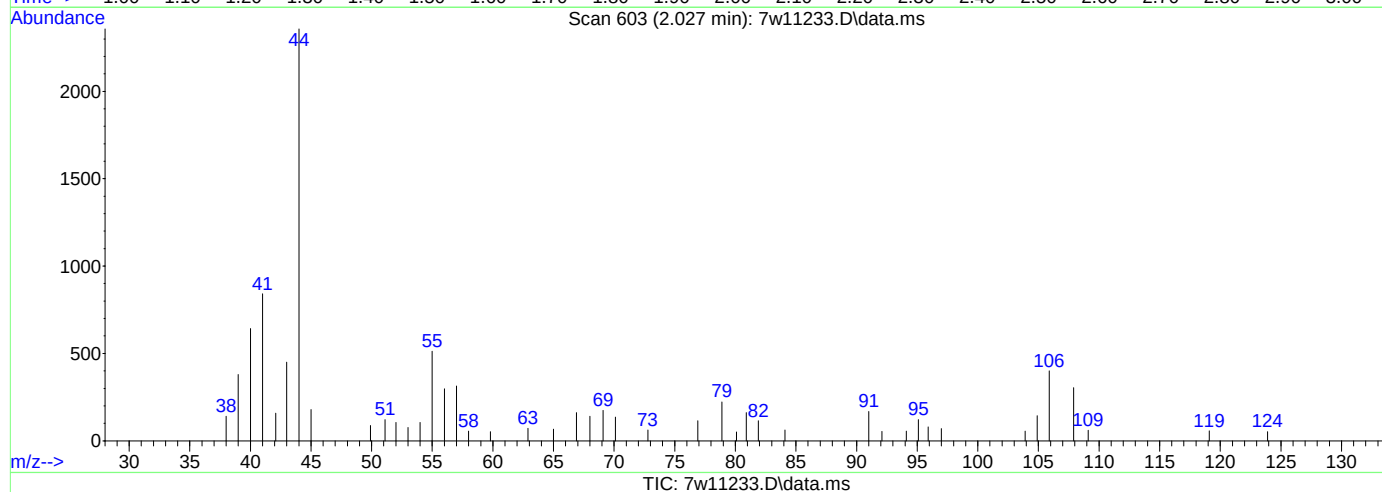
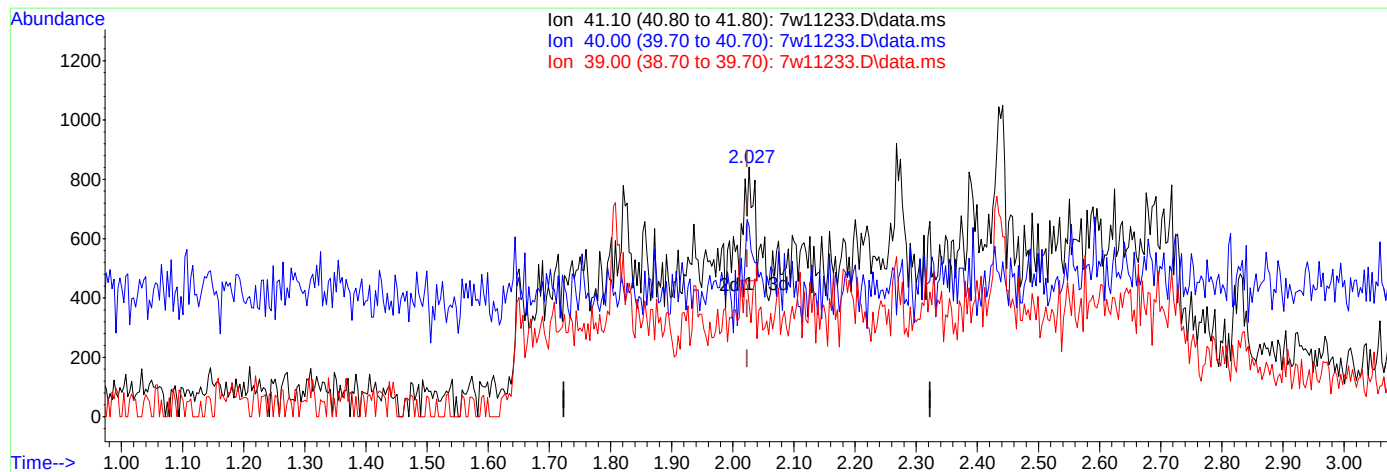
response 727

Ion	Exp%	Act%
41.10	100	100
40.00	54.20	57.91
39.00	19.70	37.96#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:17:36 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(17) ACETONITRILE (T)

2.027min (+0.004) 0.04PPBV m

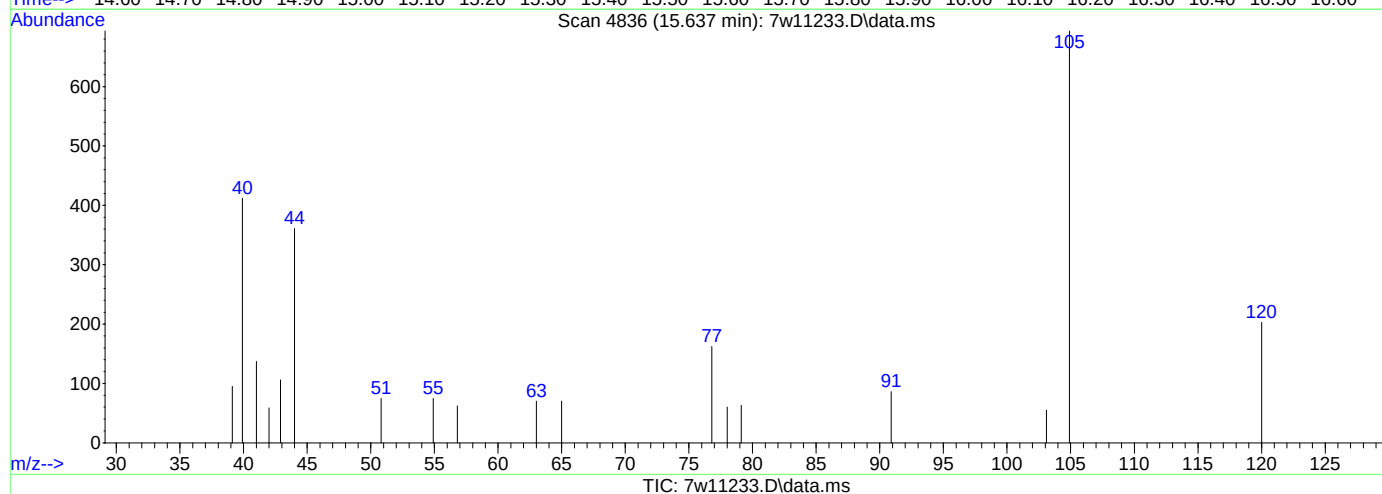
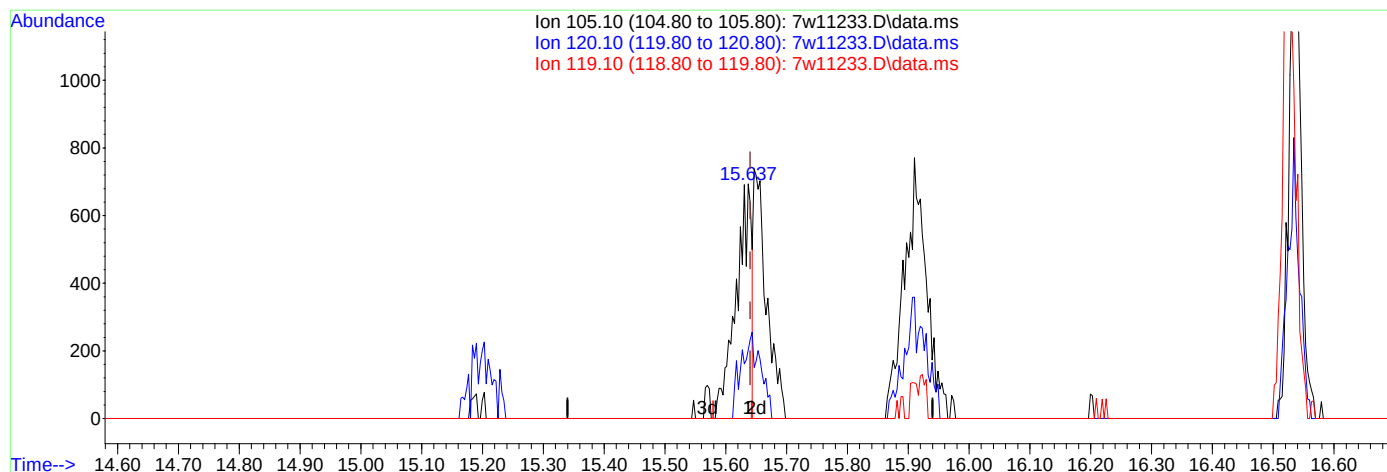
response 415

Ion	Exp%	Act%
41.10	100	100
40.00	54.20	101.45#
39.00	19.70	66.51#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:17:36 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(92) 4-ETHYLTOLUENE (T)

15.637min (-0.003) 0.02PPBV

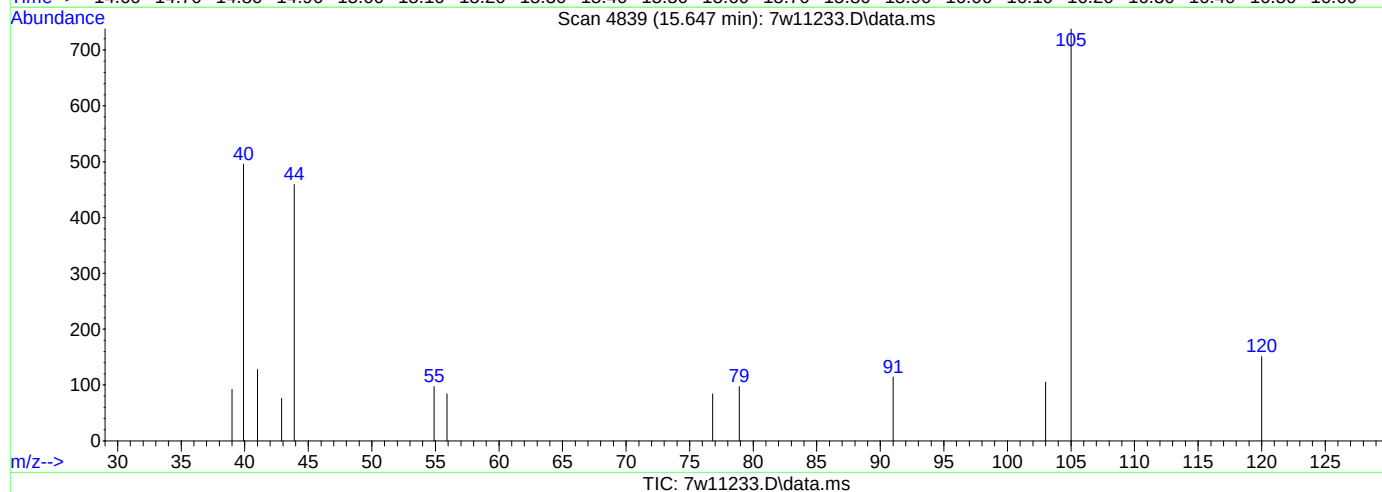
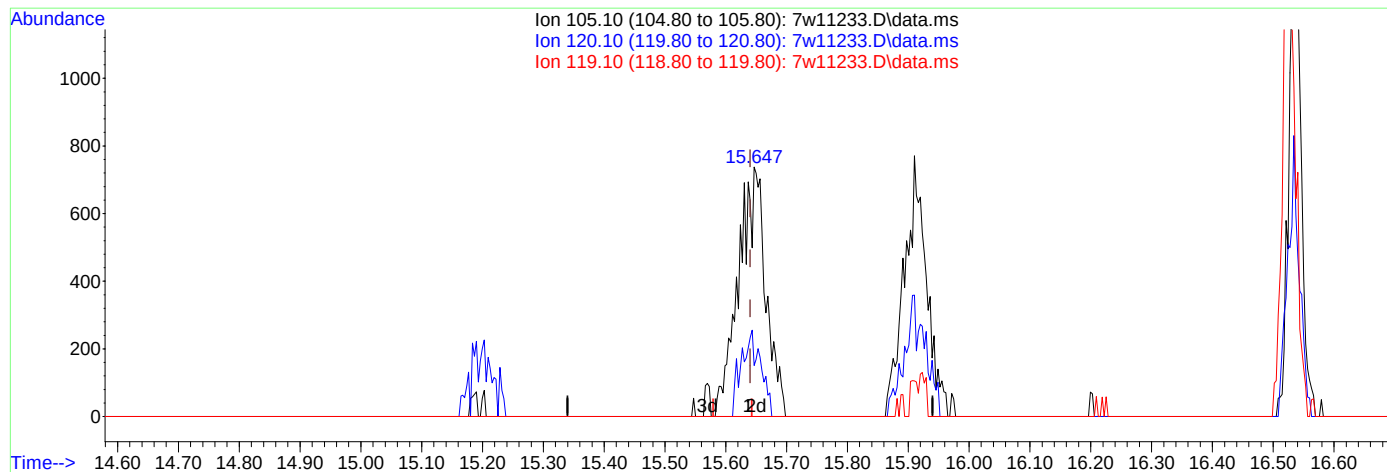
response 1228

Ion	Exp%	Act%
105.10	100	100
120.10	30.10	45.68#
119.10	2.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:17:36 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(92) 4-ETHYLTOLUENE (T)

15.647min (+0.007) 0.03PPBV m

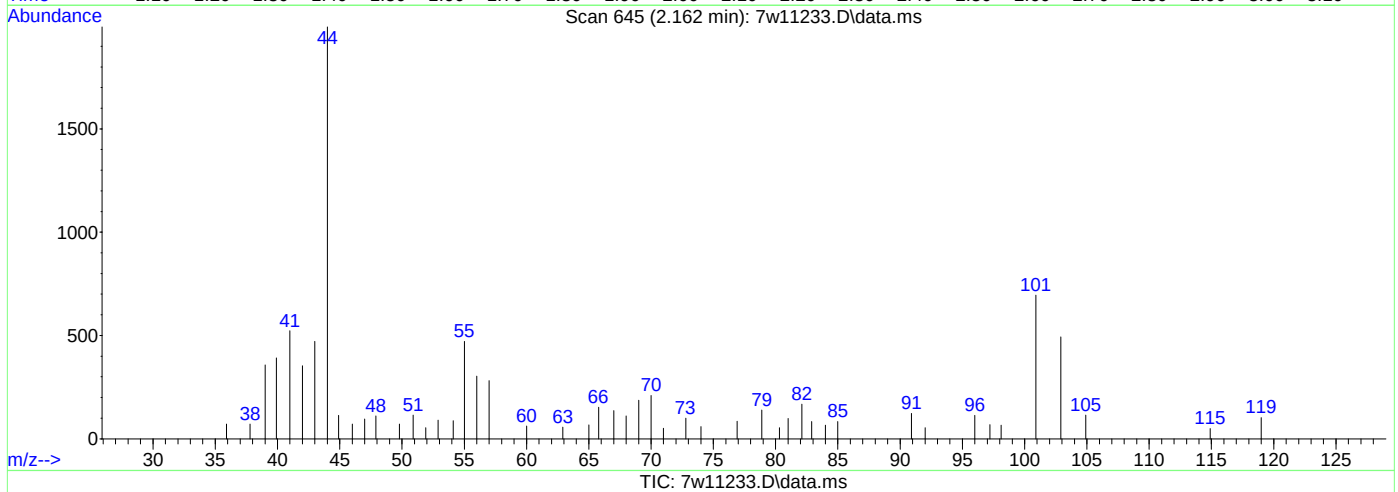
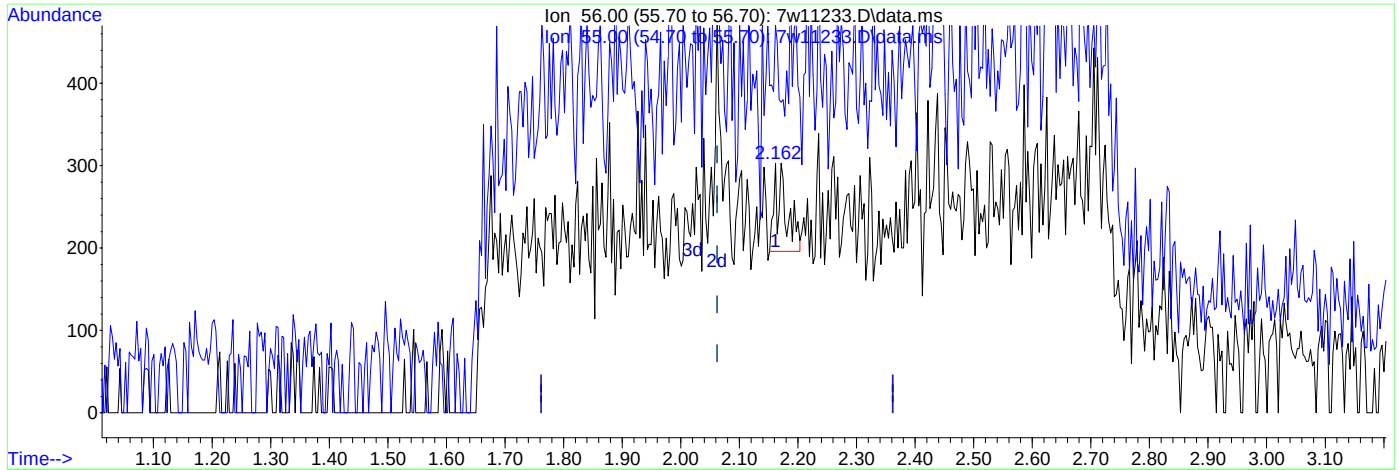
response 2316

Ion	Exp%	Act%
105.10	100	100
120.10	30.10	24.22
119.10	2.30	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:25:49 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(18) ACROLEIN (T)

2.162min (+0.100) 0.03PPBV

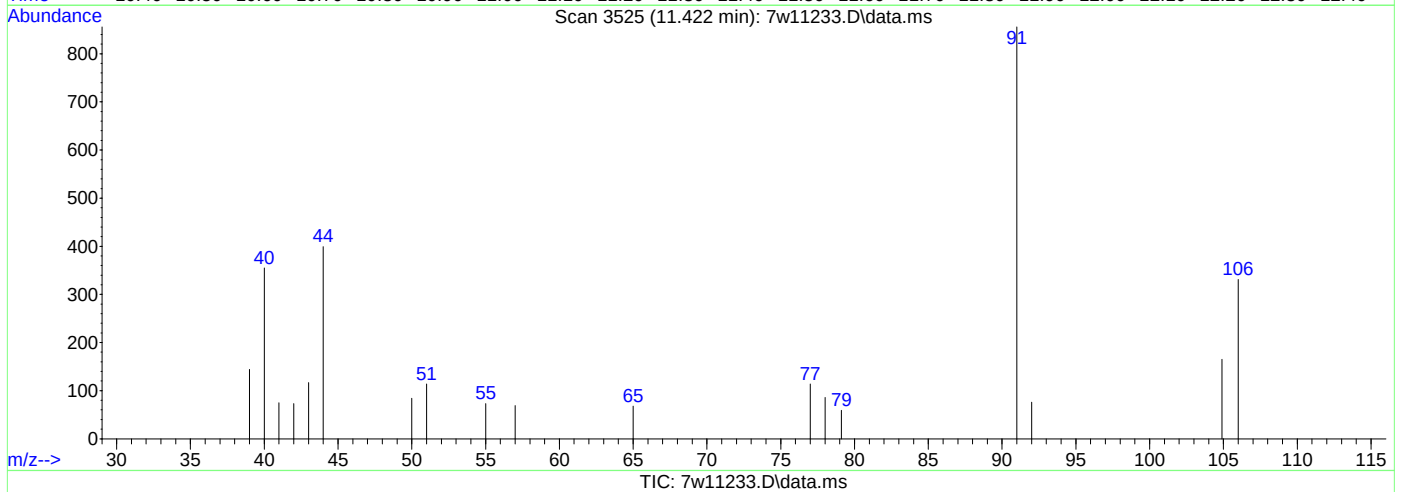
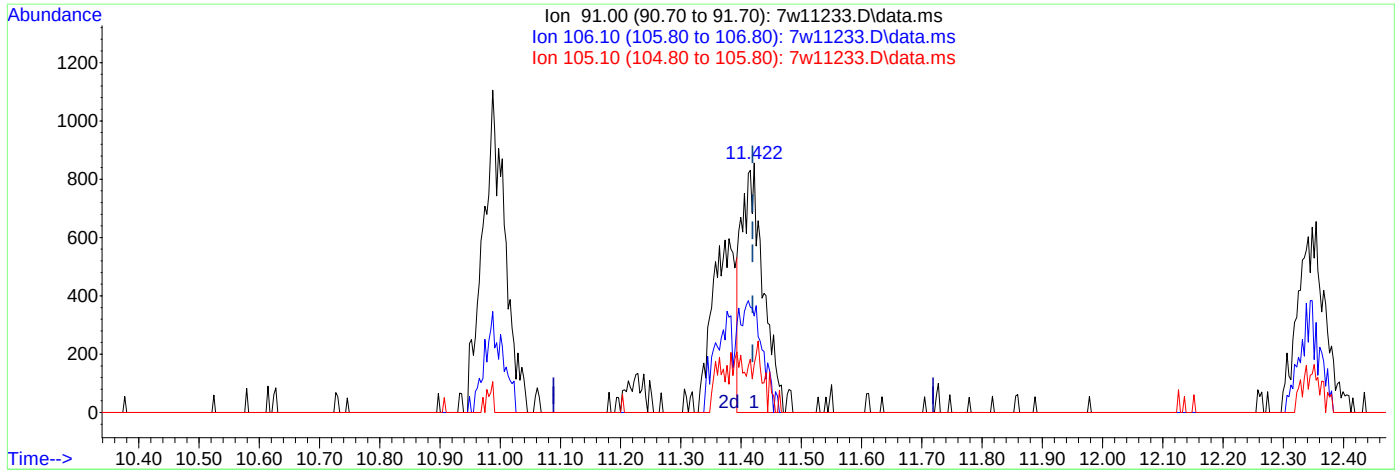
response 143

Ion	Exp%	Act%
56.00	100	100
55.00	71.80	65.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:25:49 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(80) M,P-XYLENE (t)

11.422min (+0.003) 0.04PPBV

response 2127

Ion	Exp%	Act%

91.00	100	100

106.10	25.50	50.49

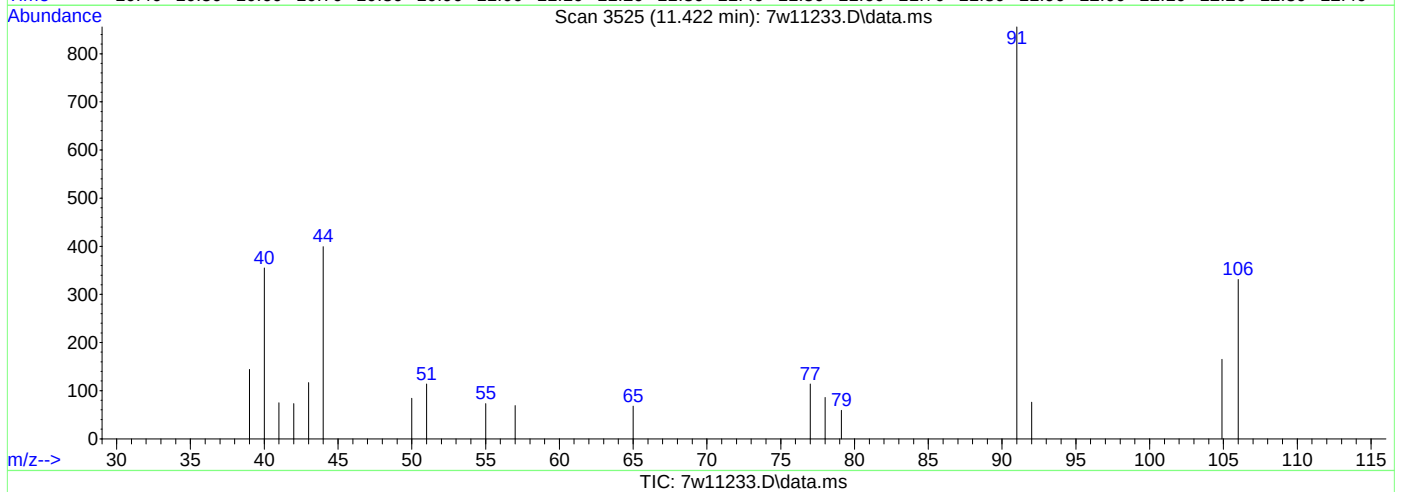
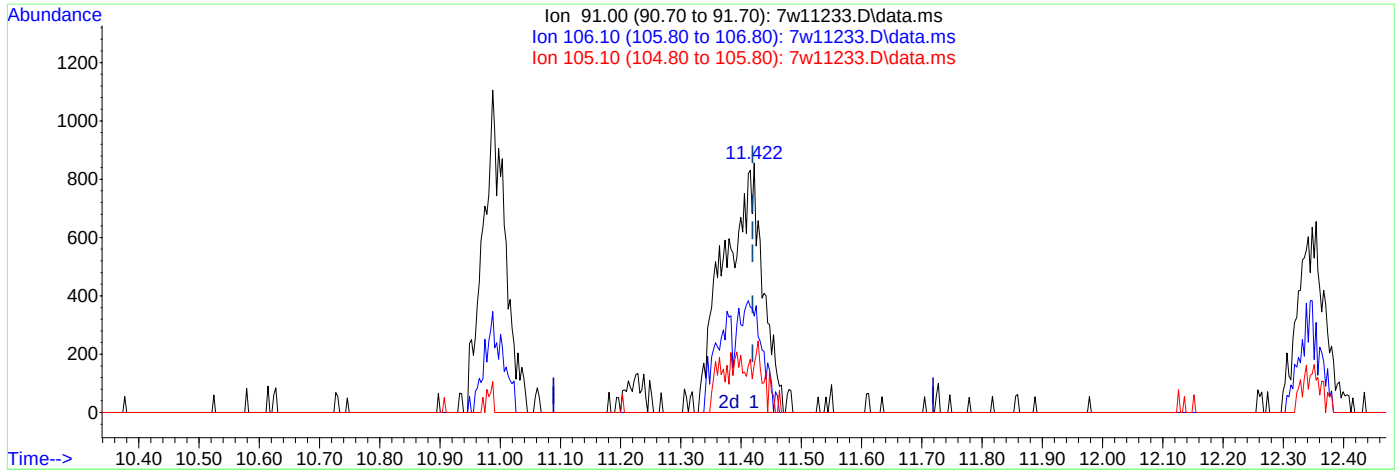
105.10	11.70	12.41

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:25:49 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(80) M,P-XYLENE (t)

11.422min (+0.003) 0.08PPBV m

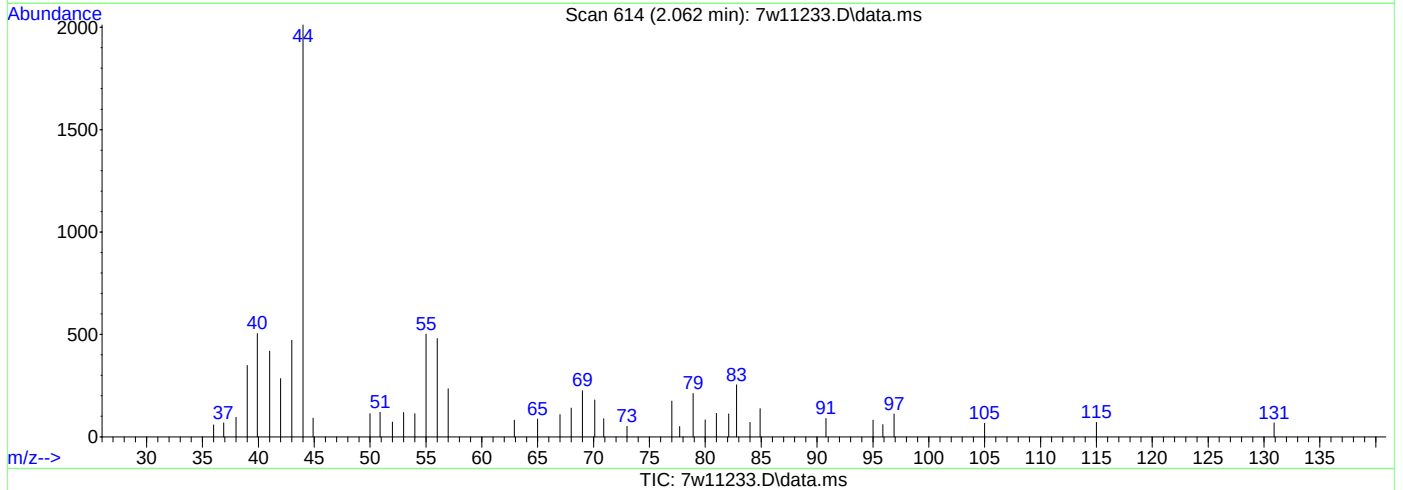
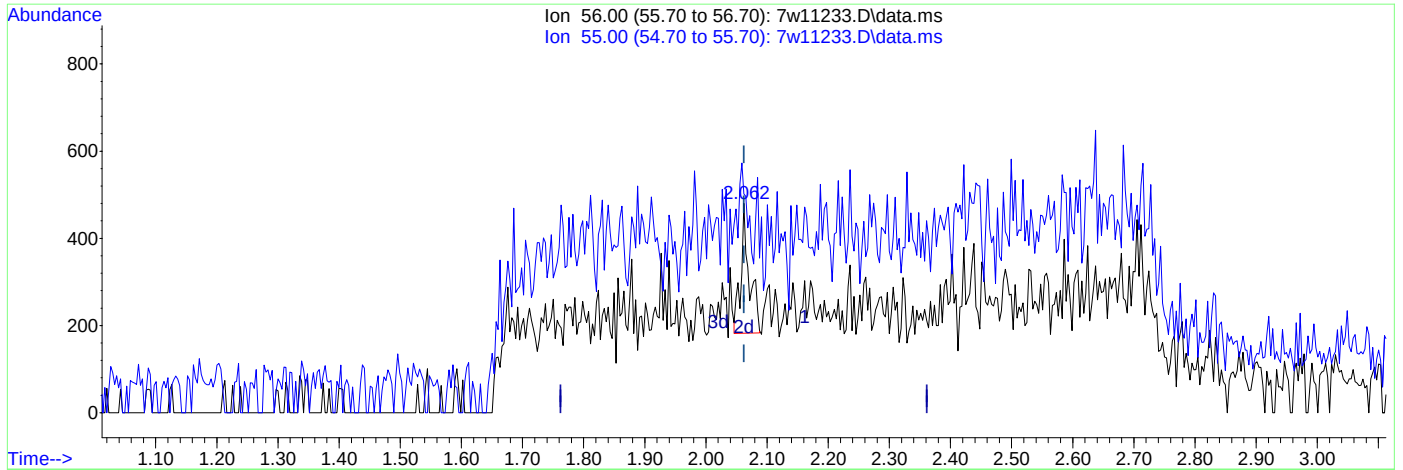
response 3729

Ion	Exp%	Act%
91.00	100	100
106.10	25.50	28.80
105.10	11.70	7.08
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11233.D
Acq On : 28 Dec 2024 9:16 am
Operator : benk
Sample : ic405-0.04
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 19:34:06 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:12:48 2024
Response via : Initial Calibration



(18) ACROLEIN (T)

2.062min (-0.000) 0.05PPBV m

response 289

Ion	Exp%	Act%
56.00	100	100
55.00	71.80	32.18#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:11:29 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.223	128	133584	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.490	114	679369	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.030	117	626077	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.223	128	133584	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.383	95	448796	9.85	PPBV	0.00
Target Compounds						
						Qvalue
2) FREON 115	1.599	119	1552	0.14	PPBV	98
3) FREON 152A	1.628	65	700	0.11	PPBV	96
4) CHLORODIFLUOROMETHANE	1.641	67	367	0.11	PPBV #	66
5) CHLOROTRIFLUOROETHENE	1.651	116	1669	0.11	PPBV	94
6) DICHLORODIFLUOROMETHANE	1.667	85	3743	0.11	PPBV	99
7) PROPYLENE	1.651	41	1091m	0.13	PPBV	
8) 1-CHLORO-1,1-DIFLUOROETHENE	1.705	65	2788	0.11	PPBV #	83
9) FREON 114	1.741	85	3060	0.11	PPBV	98
10) CHLOROMETHANE	1.712	52	455m	0.14	PPBV	
11) VINYL CHLORIDE	1.770	62	1144	0.10	PPBV	95
12) 1,3-BUTADIENE	1.811	54	1147	0.13	PPBV #	68
13) N-BUTANE	1.827	43	1929m	0.12	PPBV	
14) BROMOMETHANE	1.885	94	1136	0.12	PPBV #	83
15) CHLOROETHANE	1.930	64	691	0.12	PPBV #	71
16) DICHLOROFLUOROMETHANE	1.956	67	2693	0.11	PPBV	94
17) ACETONITRILE	2.027	41	1548	0.15	PPBV #	84
18) ACROLEIN	2.065	56	638m	0.12	PPBV	
19) FREON 123	2.078	83	3192	0.13	PPBV	87
20) FREON 123A	2.091	117	2008	0.13	PPBV	100
21) TRICHLOROFLUOROMETHANE	2.159	101	3264	0.11	PPBV #	92
22) ISOPROPYL ALCOHOL	2.188	45	3122	0.13	PPBV #	76
23) ACETONE	2.110	58	1248m	0.19	PPBV	
24) PENTANE	2.271	42	1433m	0.12	PPBV	
25) IODOMETHANE	2.332	142	3029	0.11	PPBV	97
26) 1,1-DICHLOROETHYLENE	2.361	96	1516	0.14	PPBV	79
27) CARBON DISULFIDE	2.493	76	3182	0.11	PPBV #	63
28) ETHANOL	1.966	45	2393m	0.26	PPBV	
29) BROMOETHENE	2.033	106	1269	0.12	PPBV #	84
30) ACRYLONITRILE	2.239	52	1573m	0.18	PPBV	
31) METHYLENE CHLORIDE	2.393	84	2203	0.21	PPBV	90
32) 3-CHLOROPROPENE	2.438	76	654	0.12	PPBV #	87
33) FREON 113	2.490	151	1957	0.11	PPBV	96
34) TRANS-1,2-DICHLOROETHENE	2.718	96	1459	0.13	PPBV	86
35) TERTIARY BUTYL ALCOHOL	2.397	59	3058	0.11	PPBV #	78
36) METHYL TERTIARY BUTYL ...	2.831	73	3948	0.11	PPBV #	70
37) TETRAHYDROFURAN	3.538	72	560	0.10	PPBV #	65
38) HEXANE	3.271	57	2759	0.13	PPBV	96
39) VINYL ACETATE	2.863	86	397	0.12	PPBV #	83
40) 1,1-DICHLOROETHANE	2.789	63	2465	0.11	PPBV #	86
41) METHYL ETHYL KETONE	2.966	72	741	0.12	PPBV #	92
42) CIS-1,2-DICHLOROETHENE	3.146	96	1475	0.12	PPBV	91
43) DIISOPROPYL ETHER	3.287	59	769	0.13	PPBV	81
44) ETHYL ACETATE	3.297	61	485	0.11	PPBV	95
45) METHYL ACRYLATE	3.278	55	2955	0.12	PPBV #	99
46) CHLOROFORM	3.297	83	2743	0.11	PPBV	95
47) 2,4-DIMETHYLPENTANE	3.782	57	2893	0.12	PPBV	93
48) 1,1,1-TRICHLOROETHANE	3.863	97	2969	0.11	PPBV	97
49) CARBON TETRACHLORIDE	4.278	117	2520	0.09	PPBV	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:11:29 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.699	62	2071	0.11	PPBV	96
51)	BENZENE	4.175	78	4275	0.12	PPBV	97
53)	CYCLOHEXANE	4.377	84	1762	0.11	PPBV #	73
54)	2,3-DIMETHYLPENTANE	4.628	71	937	0.11	PPBV	75
55)	TRICHLOROETHENE	5.059	95	1922	0.11	PPBV	93
56)	1,2-DICHLOROPROPANE	4.827	63	1621	0.11	PPBV	97
57)	DIBROMOMETHANE	4.782	174	1996	0.13	PPBV	95
58)	ETHYL ACRYLATE	4.959	55	3251	0.10	PPBV #	88
59)	BROMODICHLOROMETHANE	5.004	83	2919	0.10	PPBV	98
60)	2,2,4-TRIMETHYLPENTANE	5.159	57	7579	0.12	PPBV	94
61)	1,4-DIOXANE	5.175	88	1055m	0.10	PPBV	
62)	HEPTANE	5.464	43	2843	0.12	PPBV	92
63)	METHYL METHACRYLATE	5.371	69	1757	0.12	PPBV	96
64)	METHYL ISOBUTYL KETONE	6.130	58	1493	0.11	PPBV	81
65)	CIS-1,3-DICHLOROPROPENE	5.988	75	2419	0.10	PPBV	81
66)	TOLUENE	7.181	91	5488	0.12	PPBV	100
67)	1,3-DICHLOROPROPANE	7.242	76	2335	0.10	PPBV	94
68)	TRANS-1,3-DICHLOROPROPENE	6.663	75	2255	0.10	PPBV #	73
69)	1,1,2-TRICHLOROETHANE	6.818	83	1420	0.11	PPBV	98
70)	2-HEXANONE	7.802	58	2003	0.09	PPBV	97
71)	ETHYL METHACRYLATE	7.901	69	2835	0.11	PPBV	93
72)	TETRACHLOROETHENE	8.914	164	2049	0.11	PPBV	96
73)	DIBROMOCHLOROMETHANE	7.724	129	2795	0.10	PPBV	98
74)	1,2-DIBROMOETHANE	8.046	107	2657	0.11	PPBV #	100
75)	OCTANE	9.056	43	3709	0.11	PPBV	94
77)	1,1,1,2-TETRACHLOROETHANE	10.113	131	2293	0.11	PPBV	99
78)	CHLOROBENZENE	10.100	112	3912	0.10	PPBV	94
79)	ETHYLBENZENE	10.991	91	7070	0.12	PPBV	99
80)	M,P-XYLENE	11.377	91	11272	0.23	PPBV	99
81)	O-XYLENE	12.335	91	5714	0.12	PPBV	86
82)	STYRENE	12.133	104	3697	0.10	PPBV	97
83)	NONANE	13.457	43	3560	0.11	PPBV	93
84)	BROMOFORM	11.226	173	2476	0.10	PPBV #	92
85)	1,1,2,2-TETRACHLOROETHANE	12.354	83	3566	0.11	PPBV	94
86)	1,2,3-TRICHLOROPROPANE	12.650	75	2613	0.10	PPBV #	99
88)	ISOPROPYLBENZENE	13.853	120	1951	0.10	PPBV #	75
89)	BROMOBENZENE	13.724	77	3729	0.11	PPBV	94
90)	2-CHLOROTOLUENE	14.849	126	1777	0.10	PPBV	96
91)	N-PROPYLBENZENE	15.200	120	1935	0.10	PPBV #	79
92)	4-ETHYLTOLUENE	15.637	105	7213	0.10	PPBV #	98
93)	1,3,5-TRIMETHYLBENZENE	15.911	105	6007	0.10	PPBV	95
94)	ALPHA-METHYLSTYRENE	16.216	118	2749	0.09	PPBV	95
95)	TERT-BUTYLBENZENE	16.528	134	1442	0.10	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.531	105	6050	0.10	PPBV	99
97)	BENZYL CHLORIDE	16.624	91	4378	0.08	PPBV	98
98)	M-DICHLOROBENZENE	16.599	146	3860	0.09	PPBV	98
99)	P-DICHLOROBENZENE	16.689	146	4056	0.10	PPBV	98
100)	O-DICHLOROBENZENE	17.010	146	3850	0.10	PPBV	97
101)	SEC-BUTYLBENZENE	16.840	134	1712	0.10	PPBV	85
102)	1,2,3-TRIMETHYLBENZENE	16.956	105	5886	0.10	PPBV	98
103)	P-ISOPROPYLTOLUENE	17.033	134	1960	0.10	PPBV	100
104)	N-BUTYLBENZENE	17.393	134	1820	0.09	PPBV	93
105)	HEXACHLOROETHANE	17.573	117	2186	0.09	PPBV	96
106)	HEXACHLOROBUTADIENE	18.631	225	2717	0.10	PPBV	98
107)	1,2,4-TRICHLOROBENZENE	18.322	180	2419	0.07	PPBV	96
108)	NAPHTHALENE	18.370	128	5107	0.07	PPBV	97
110)	TVHC as equiv Pentane	2.271	TIC	6736m	0.12	PPBV	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 06:11:29 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration

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

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

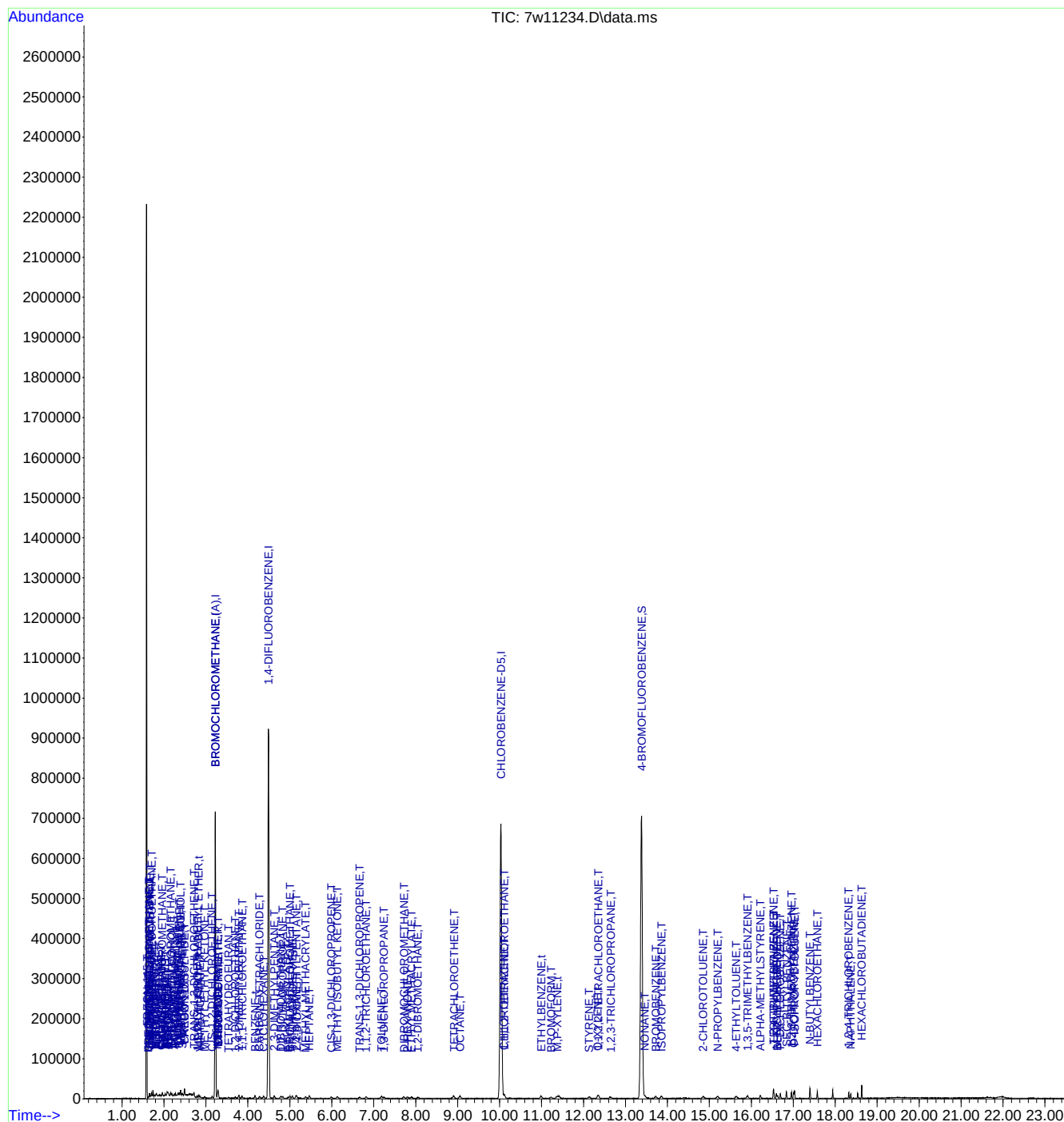
7.7.26

7

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\7w\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1
```

Quant Time: Dec 29 06:11:29 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V7W405-IC405

Method: TO-15

Lab FileID: 7W11234.D

Analyst approved: 12/30/24 00:11 Kanya Veerawat

Injection Time: 12/28/24 09:53

Supervisor approved: 12/30/24 00:15 Kanya Veerawat

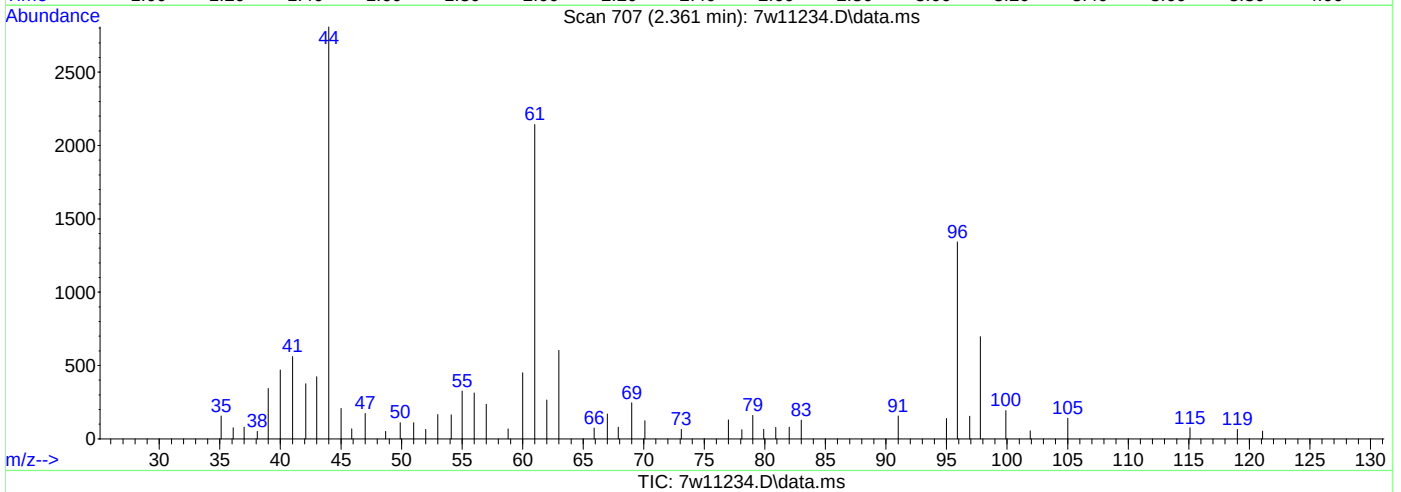
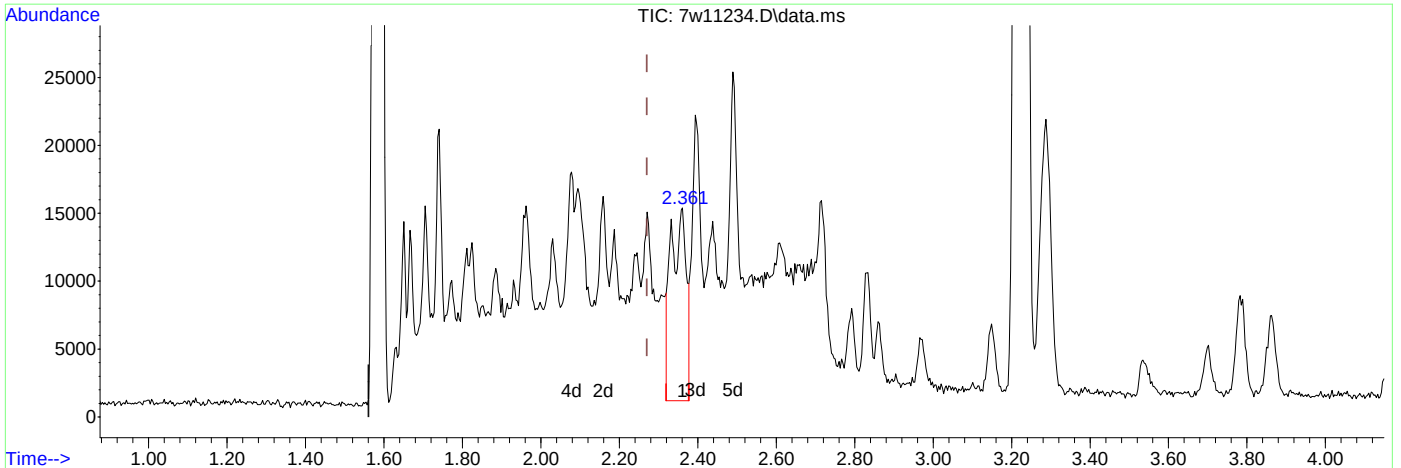
Parameter	CAS	Sig#	R.T. (min.)	Reason
Propylene	115-07-1		1.65	Missed peak
Chloromethane	74-87-3		1.71	Poor instrument integration
n-Butane	106-97-8		1.83	Poor instrument integration
Ethanol	64-17-5		1.97	Poor instrument integration
Acrolein	107-02-8		2.07	Poor instrument integration
Acetone (2-Propanone)	67-64-1		2.11	Poor instrument integration
Acrylonitrile	107-13-1		2.24	Poor instrument integration
Pentane	109-66-0		2.27	Poor instrument integration
TVHC As Equiv Pentane			2.27	Missed peak
1,4-Dioxane	123-91-1		5.17	Poor instrument integration

7.7.26.1
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:53:04 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(110) TVHC as equiv Pentane

2.361min (+0.090) 0.68PPBV

response 38161

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

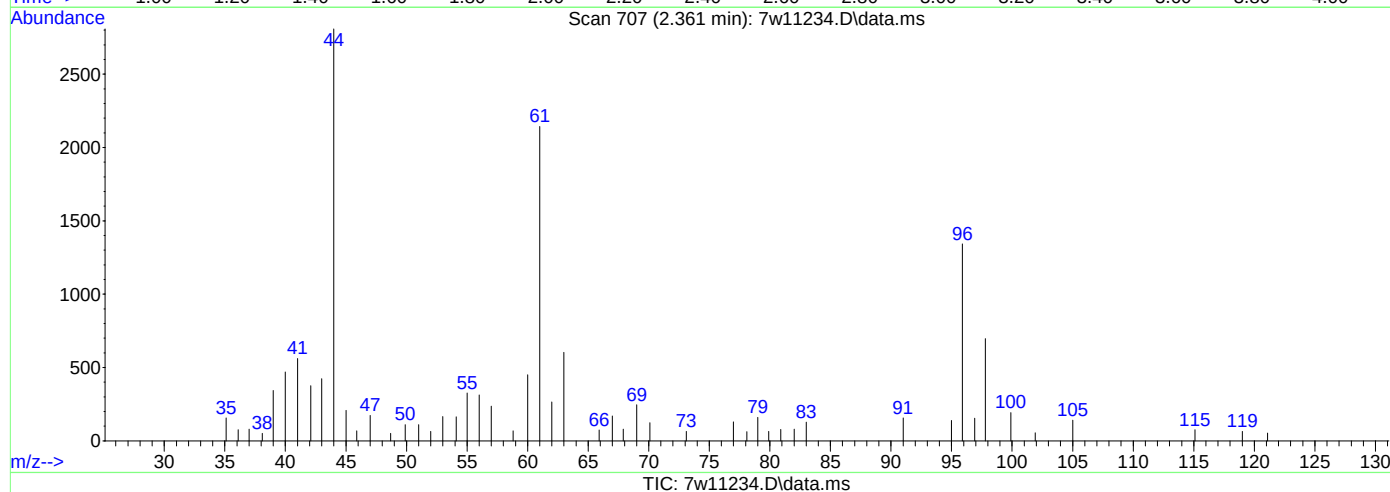
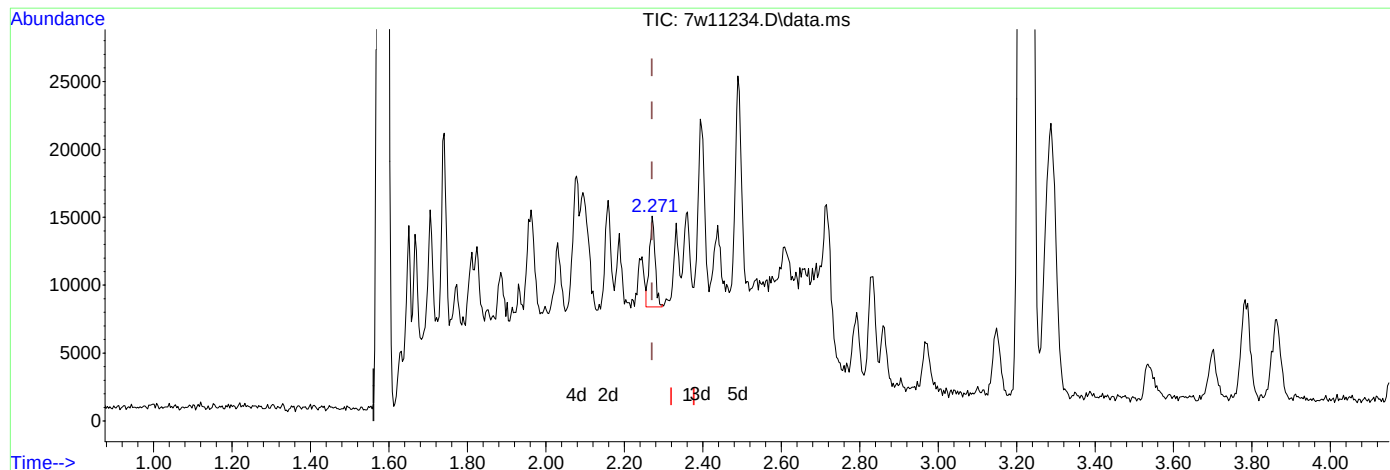
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:53:04 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(110) TVHC as equiv Pentane

2.271min (+0.000) 0.12PPBV m

response 6736

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

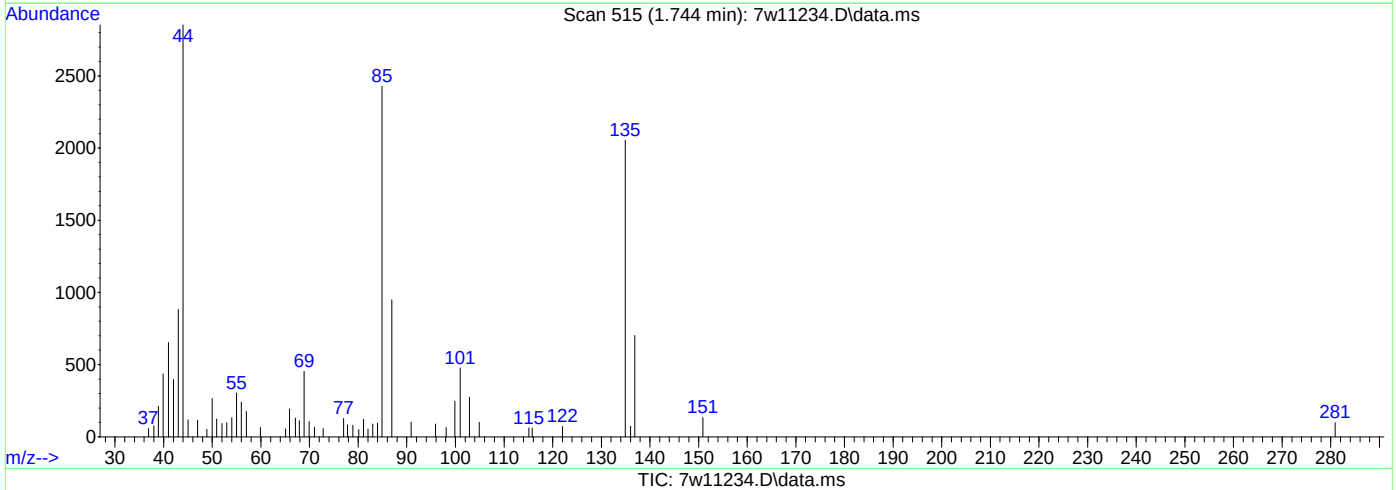
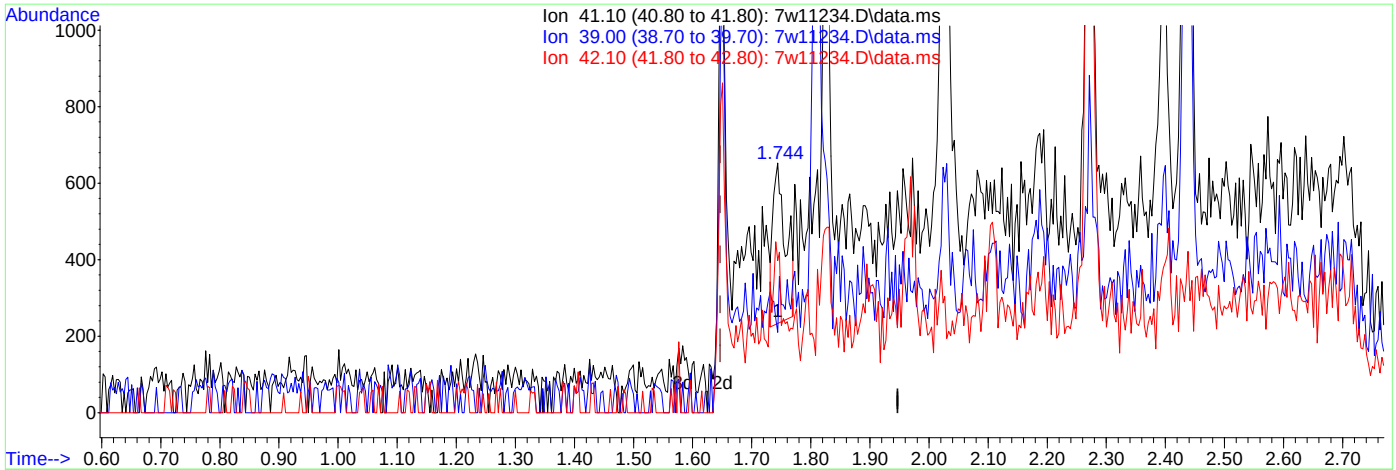
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(7) PROPYLENE (T)

1.744min (+0.097) 0.08PPBV

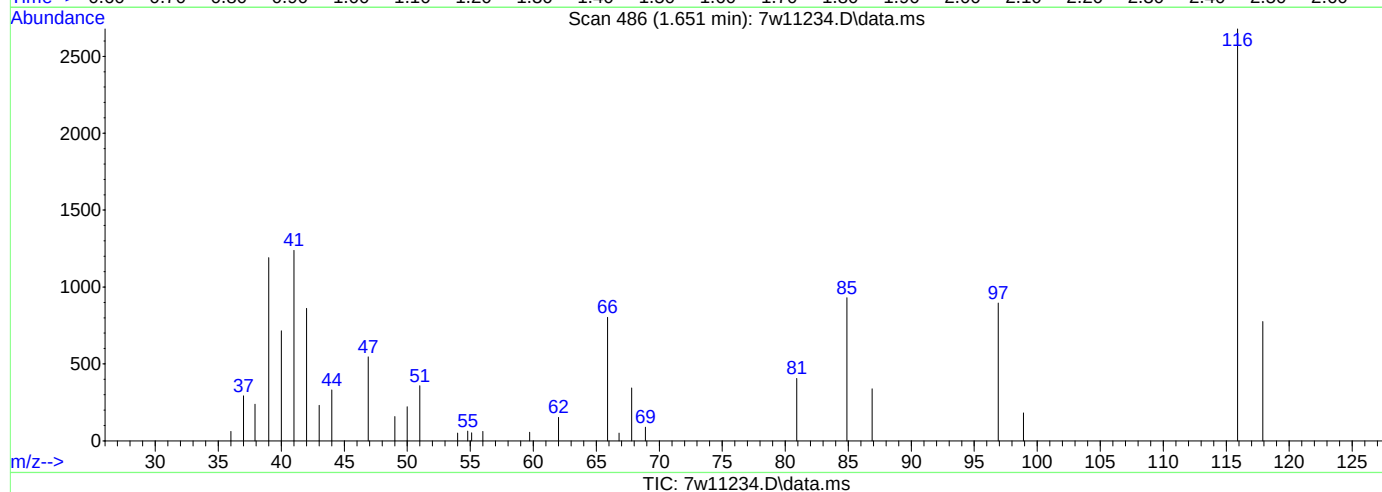
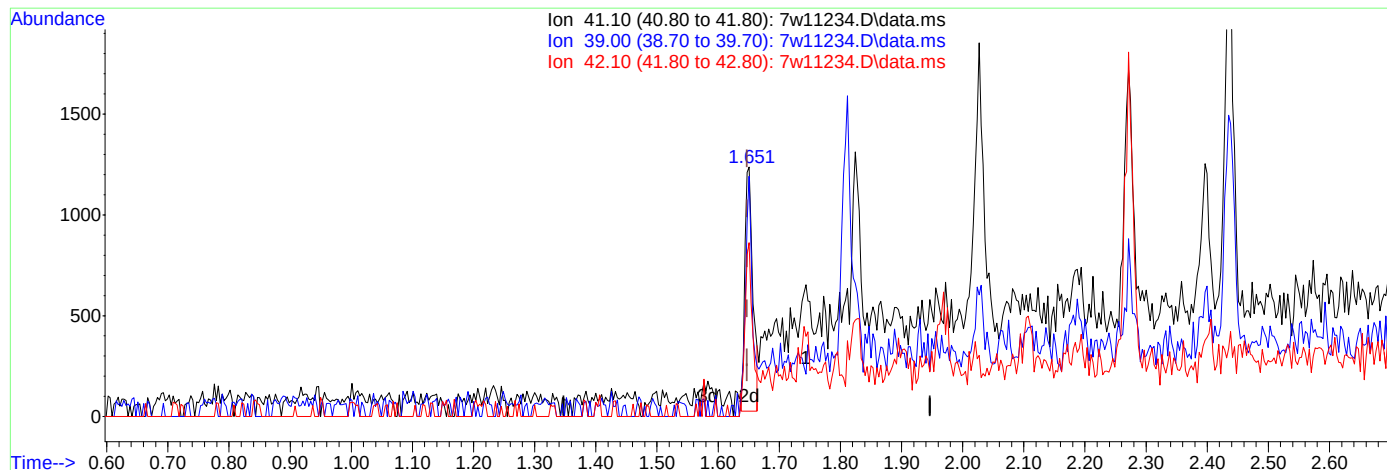
response 624

Ion	Exp%	Act%
41.10	100	100
39.00	75.60	60.74
42.10	66.60	82.37
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(7) PROPYLENE (T)

1.651min (+0.004) 0.13PPBV m

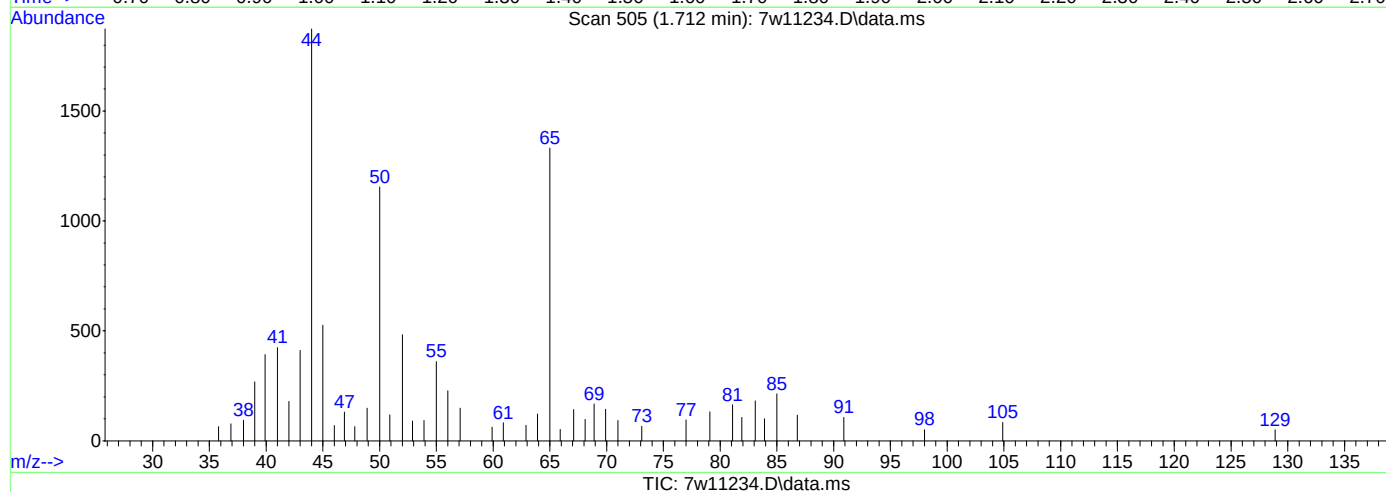
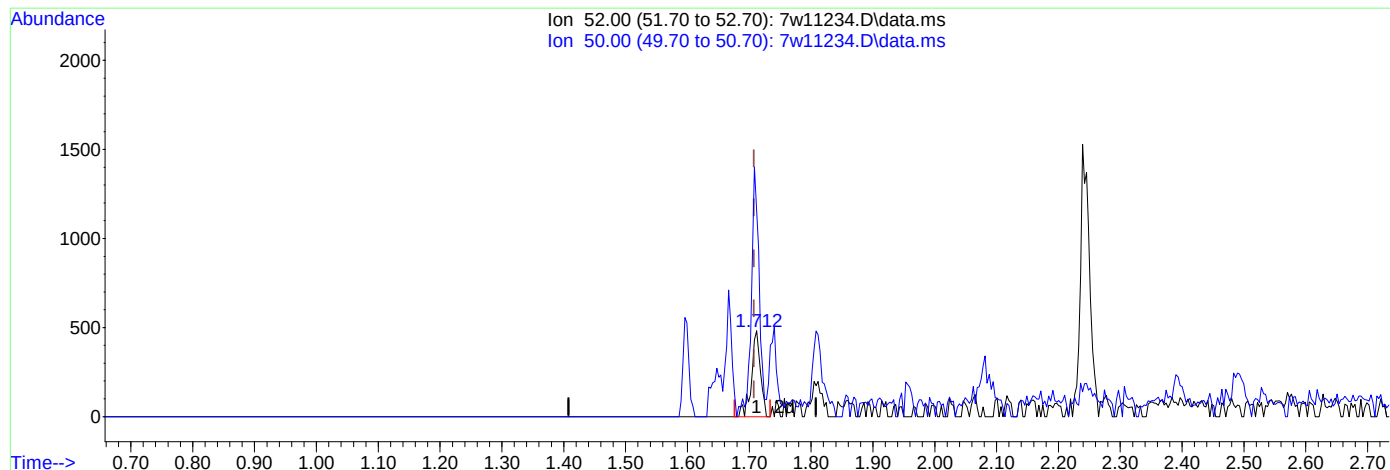
response 1091

Ion	Exp%	Act%
41.10	100	100
39.00	75.60	34.74#
42.10	66.60	47.11
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(10) CHLOROMETHANE (T)

1.712min (+0.004) 0.15PPBV

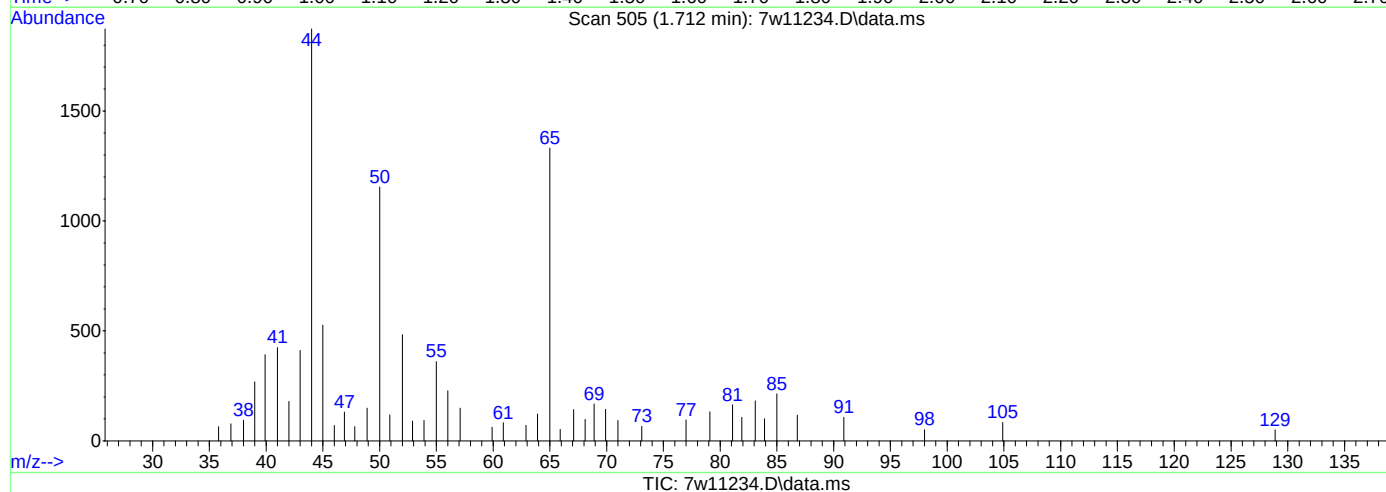
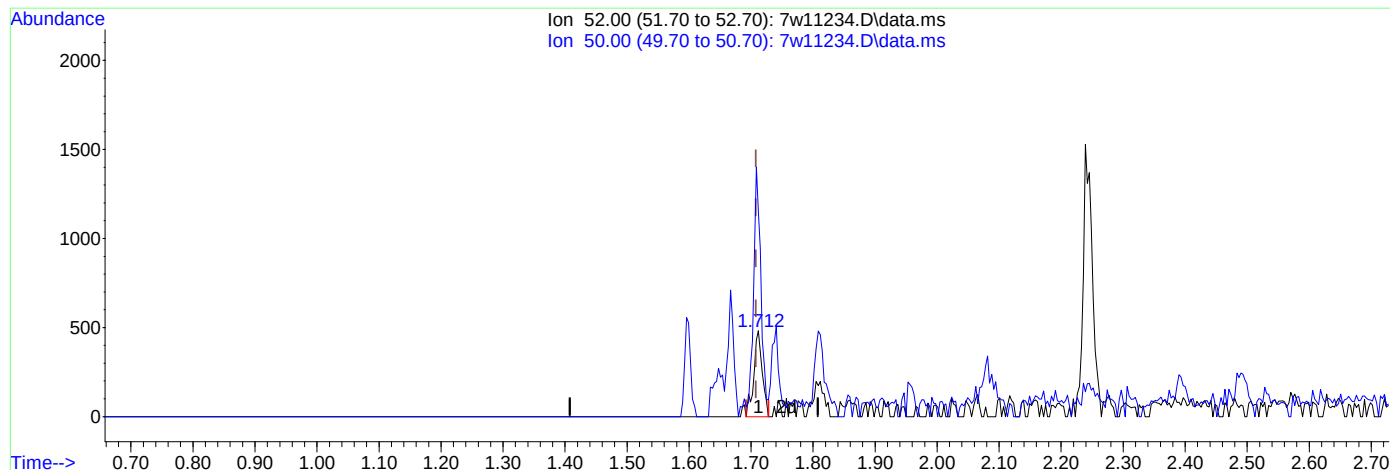
response 478

Ion	Exp%	Act%
52.00	100	100
50.00	314.50	235.15
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(10) CHLOROMETHANE (T)

1.712min (+0.004) 0.14PPBV m

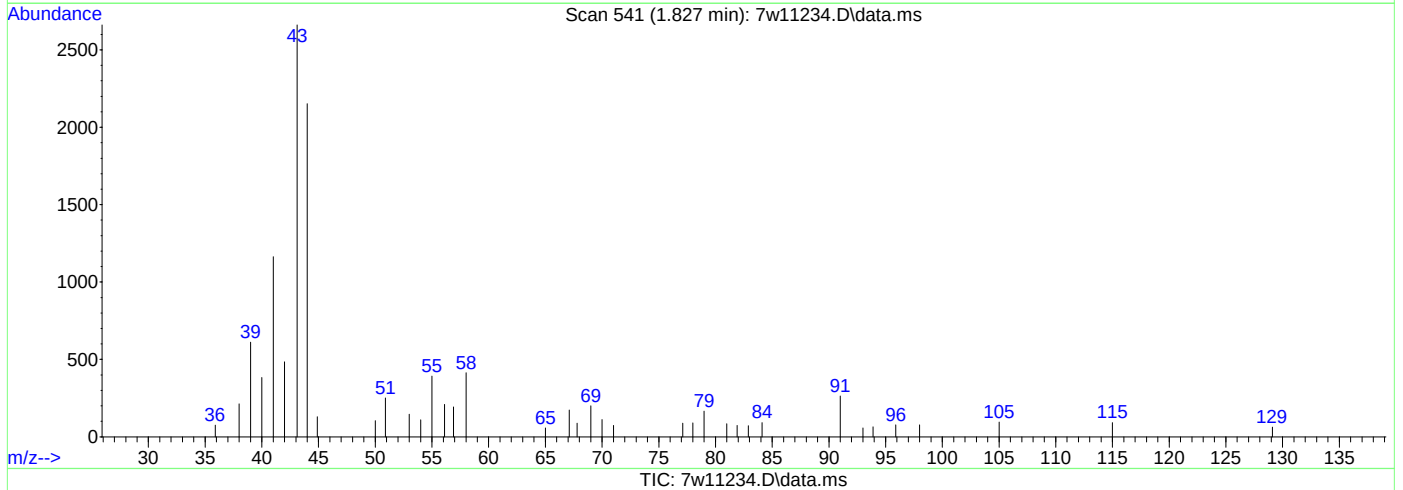
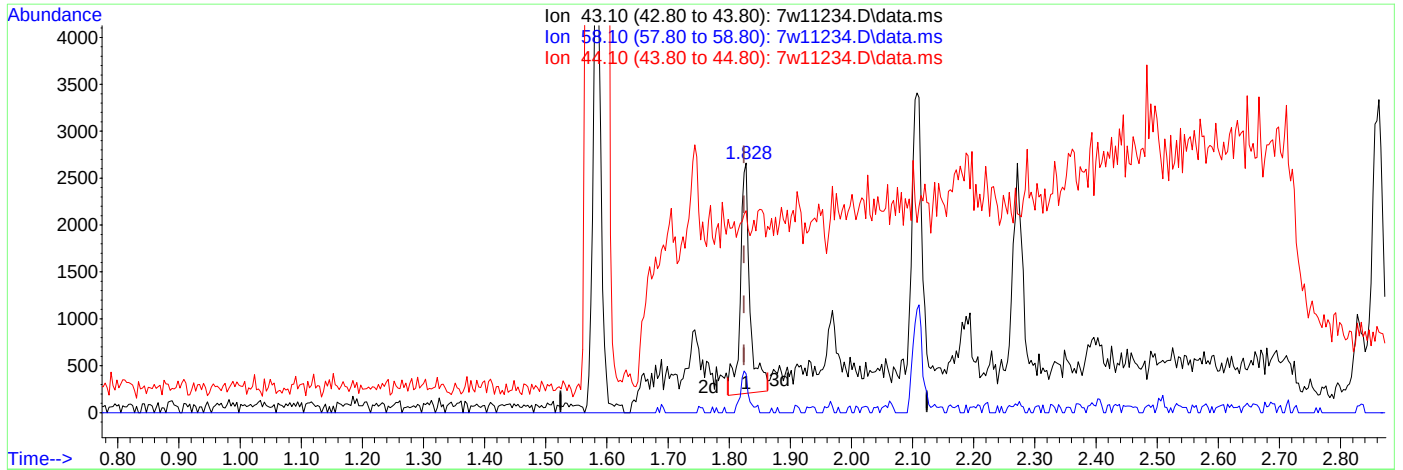
response 455

Ion	Exp%	Act%
52.00	100	100
50.00	314.50	247.03
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(13) N-BUTANE (T)

1.827min (+0.003) 0.16PPBV

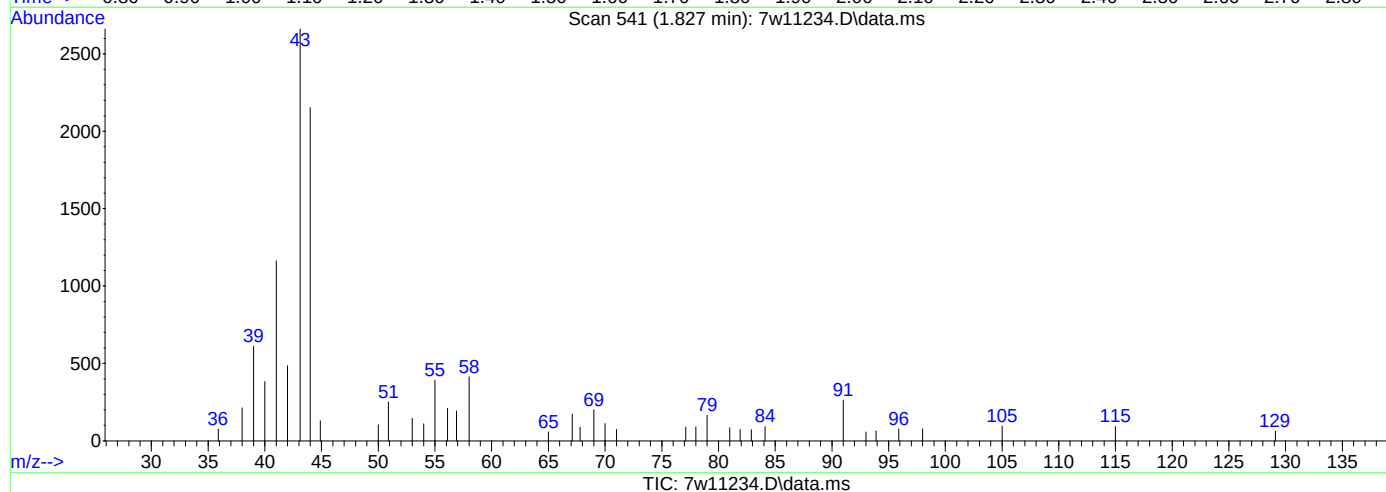
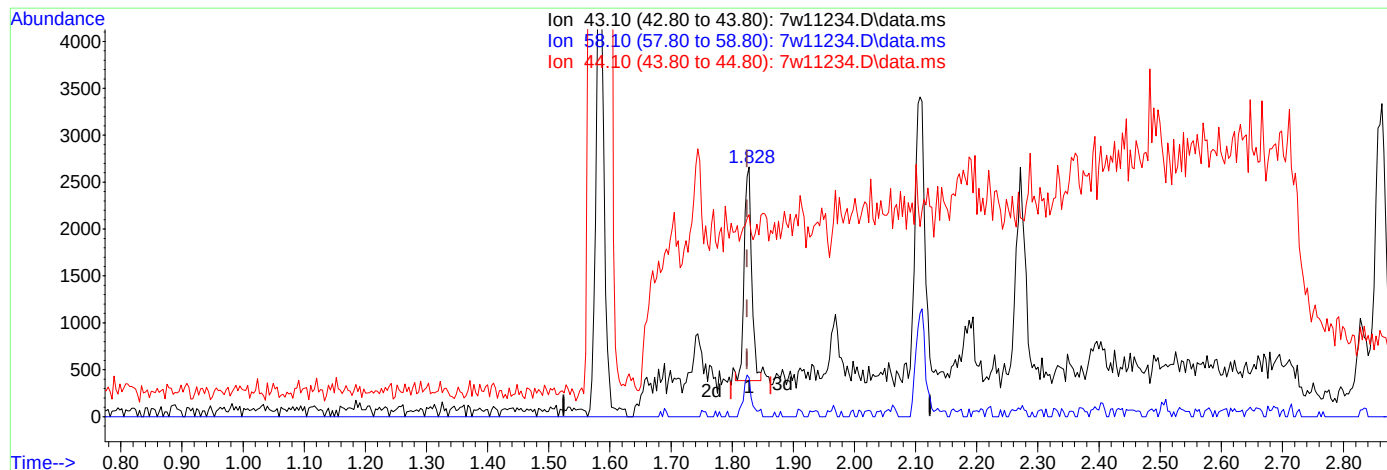
response 2700

Ion	Exp%	Act%
43.10	100	100
58.10	14.80	15.67
44.10	4.30	58.37#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(13) N-BUTANE (T)

1.827min (+0.003) 0.12PPBV m

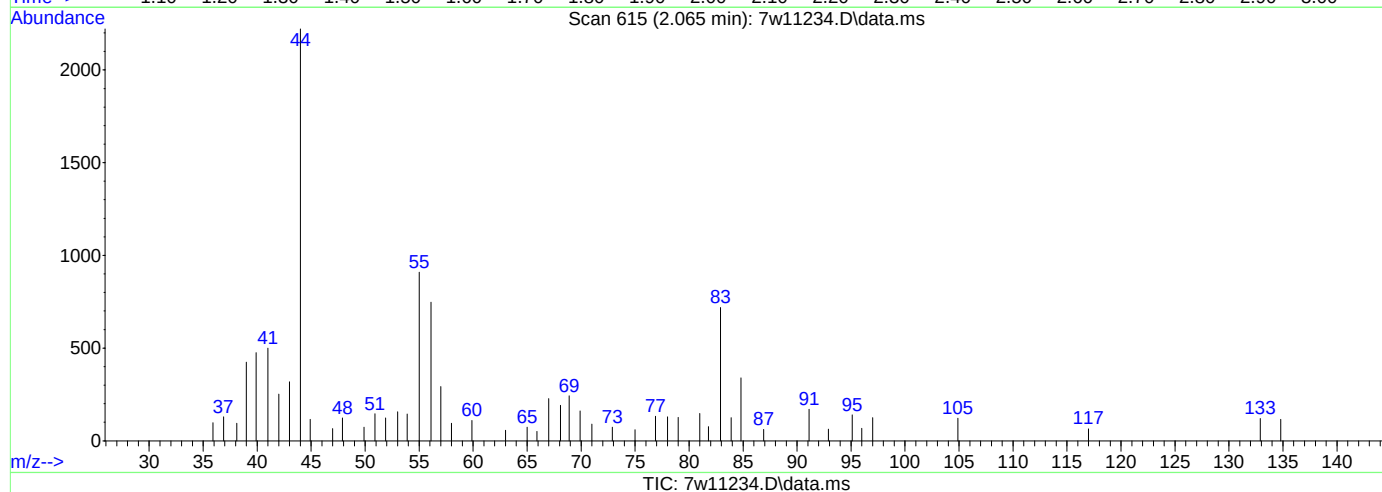
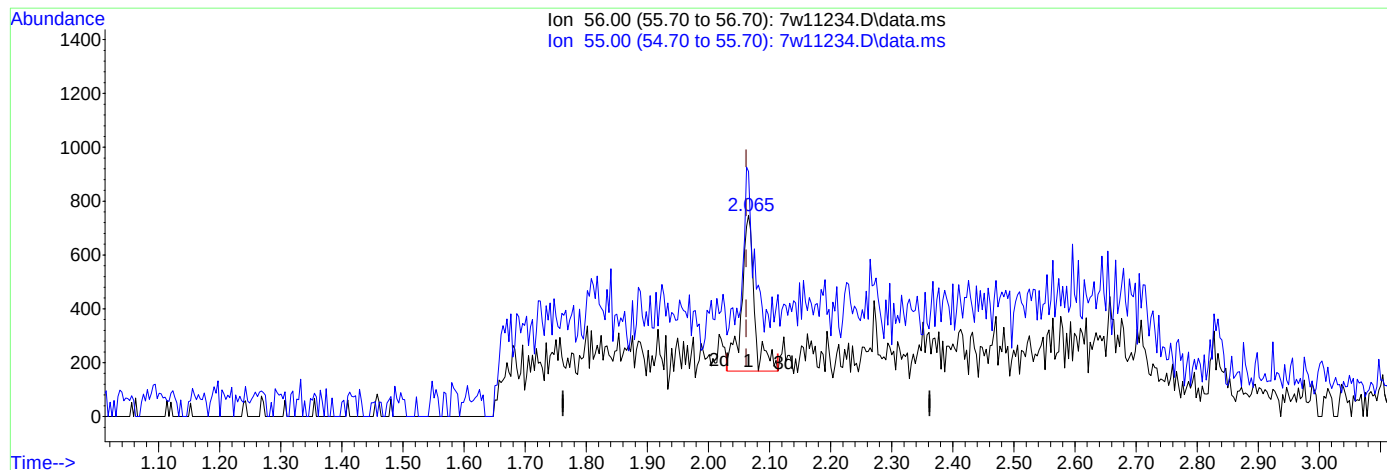
response 1929

Ion	Exp%	Act%
43.10	100	100
58.10	14.80	21.93#
44.10	4.30	81.70#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(18) ACROLEIN (T)

2.065min (+0.003) 0.16PPBV

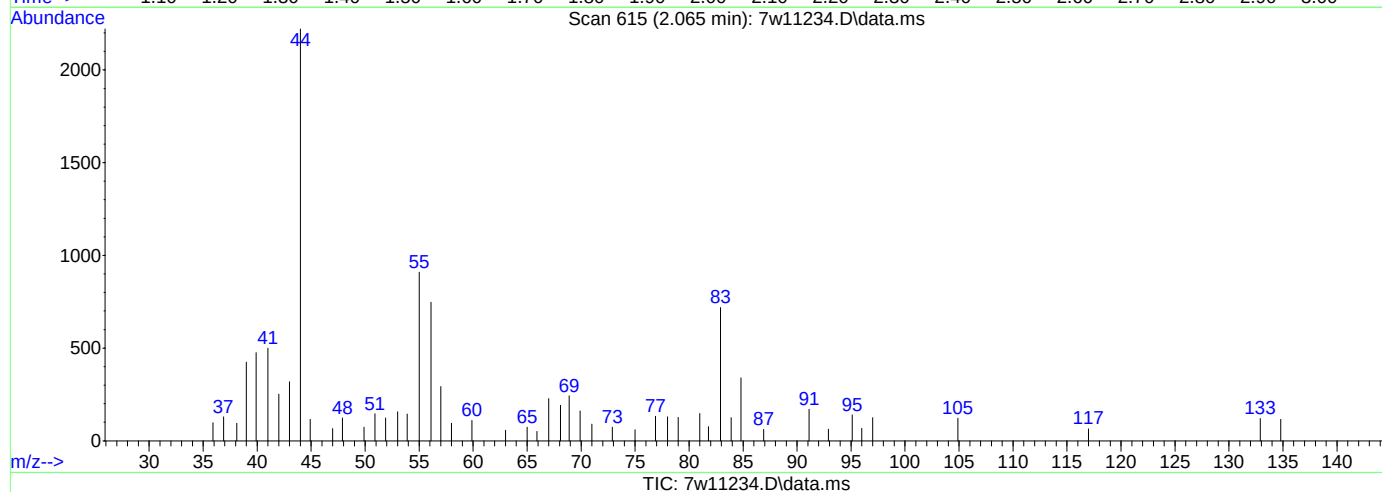
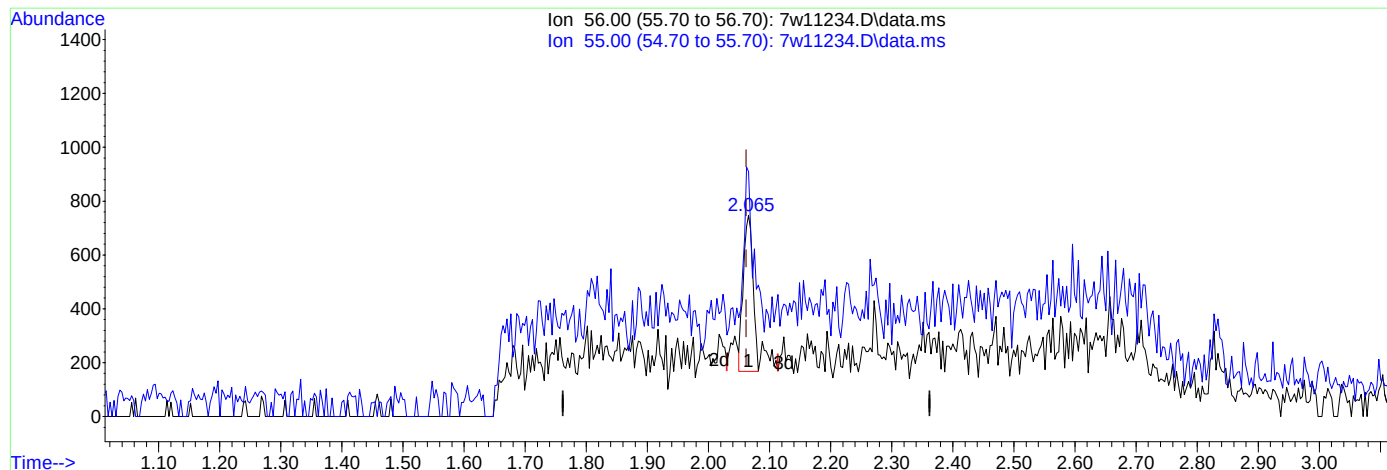
response 850

Ion	Exp%	Act%
56.00	100	100
55.00	71.80	99.76#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(18) ACROLEIN (T)

2.065min (+0.003) 0.12PPBV m

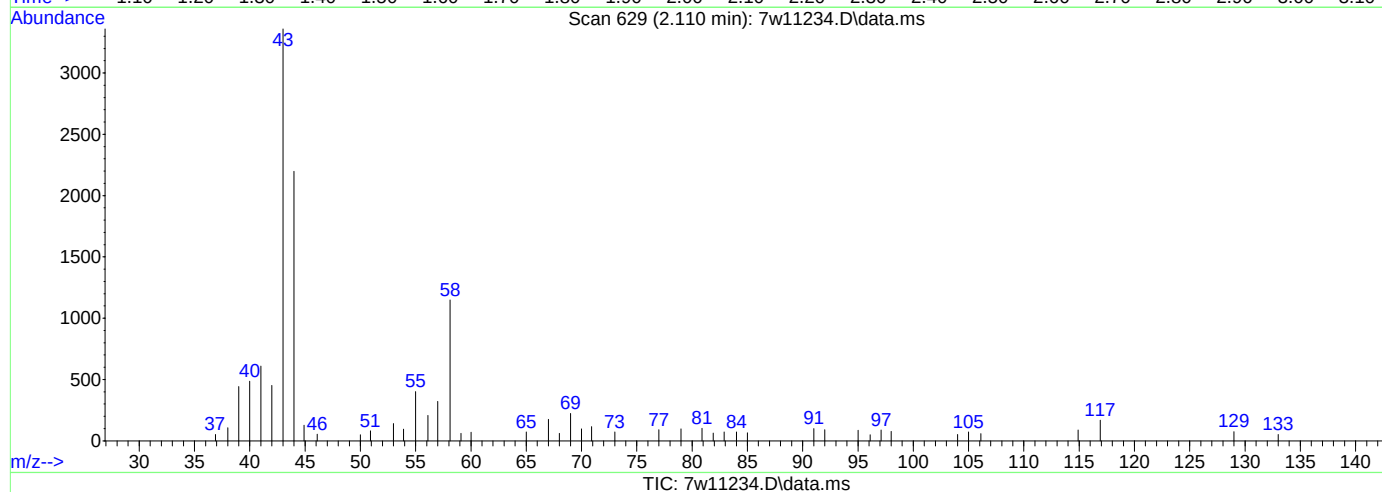
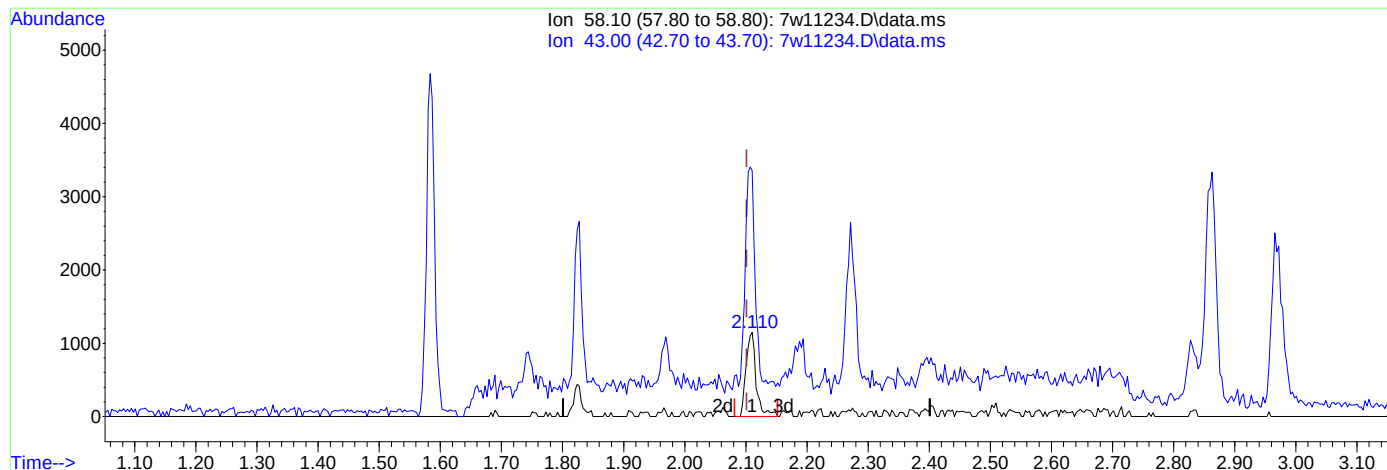
response 638

Ion	Exp%	Act%
56.00	100	100
55.00	71.80	132.92#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(23) ACETONE (T)

2.110min (+0.009) 0.20PPBV

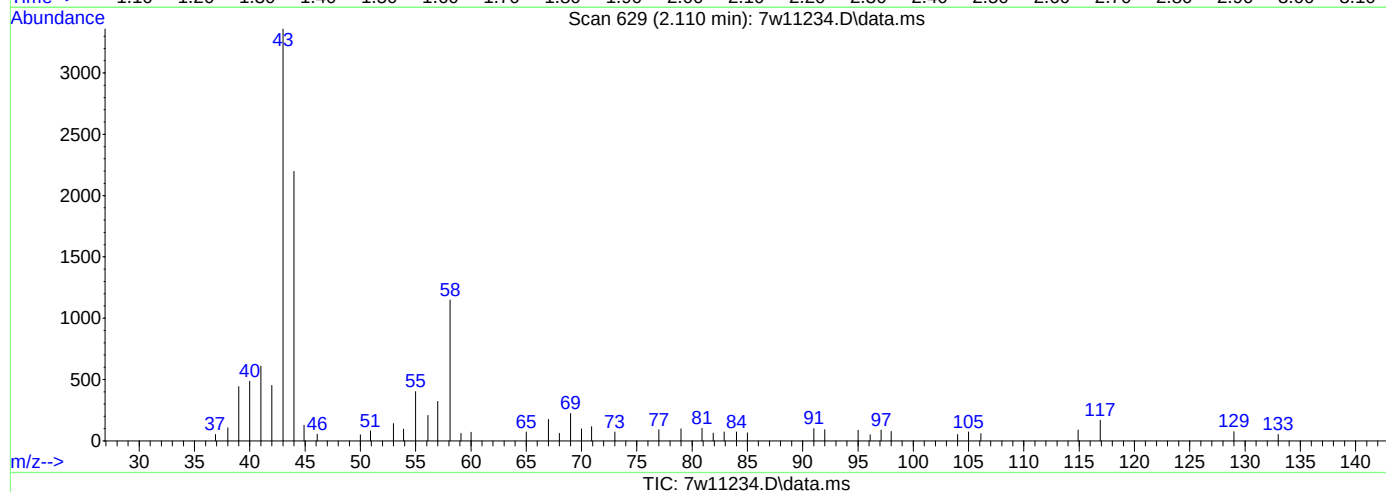
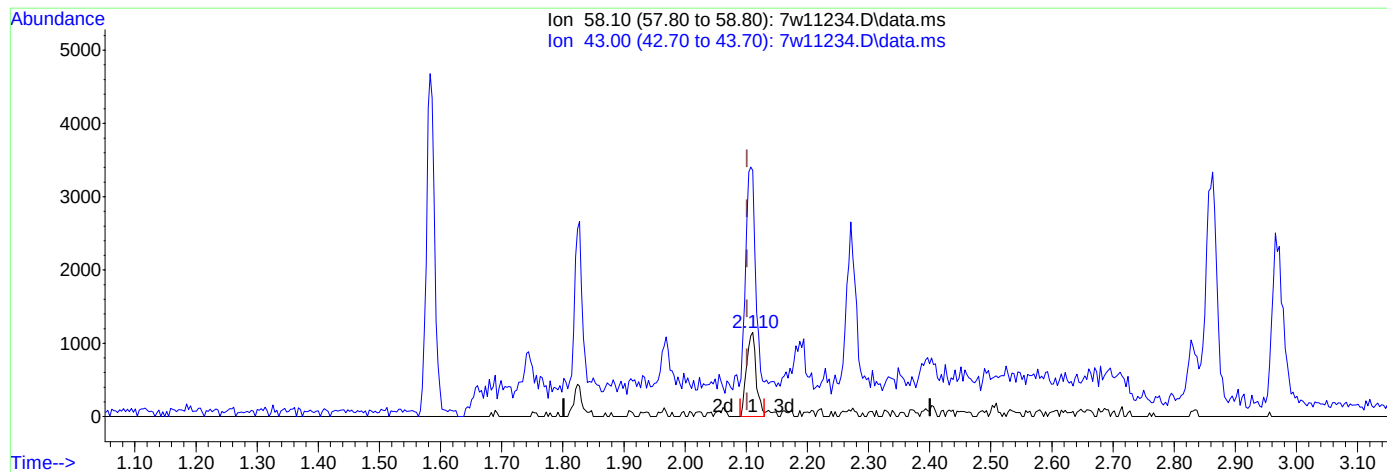
response 1323

Ion	Exp%	Act%
58.10	100	100
43.00	334.80	261.38
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(23) ACETONE (T)

2.110min (+0.009) 0.19PPBV m

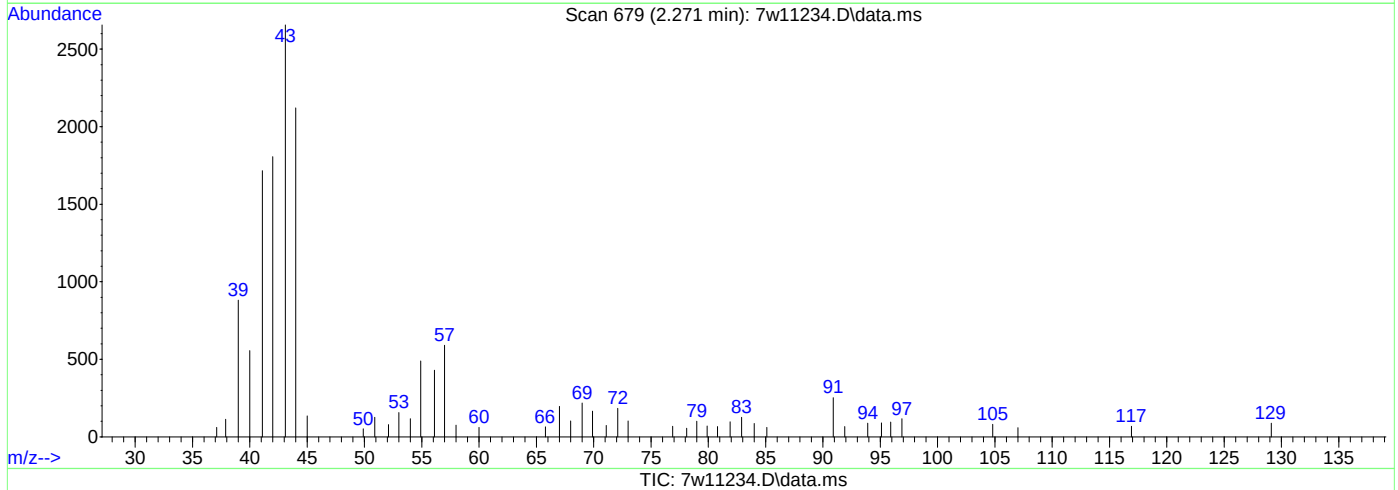
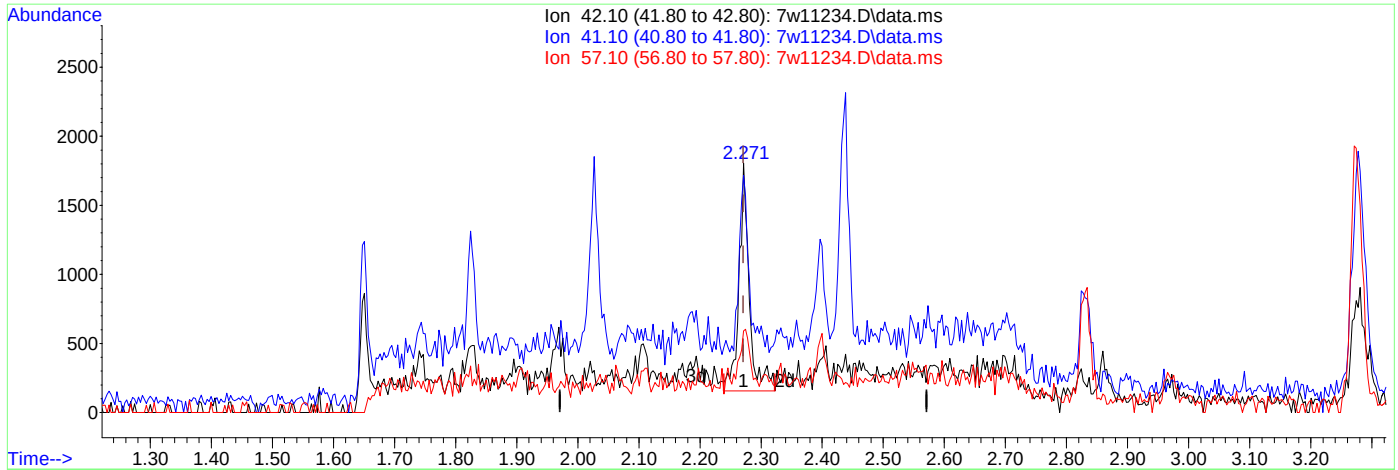
response 1248

Ion	Exp%	Act%
58.10	100	100
43.00	334.80	277.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(24) PENTANE (T)

2.271min (+0.000) 0.17PPBV

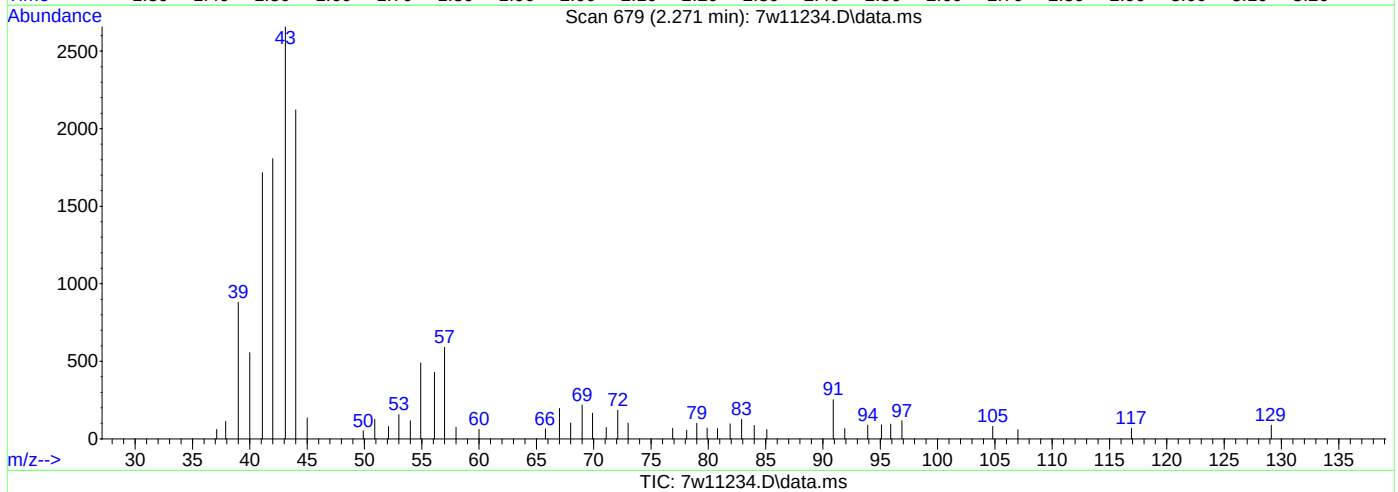
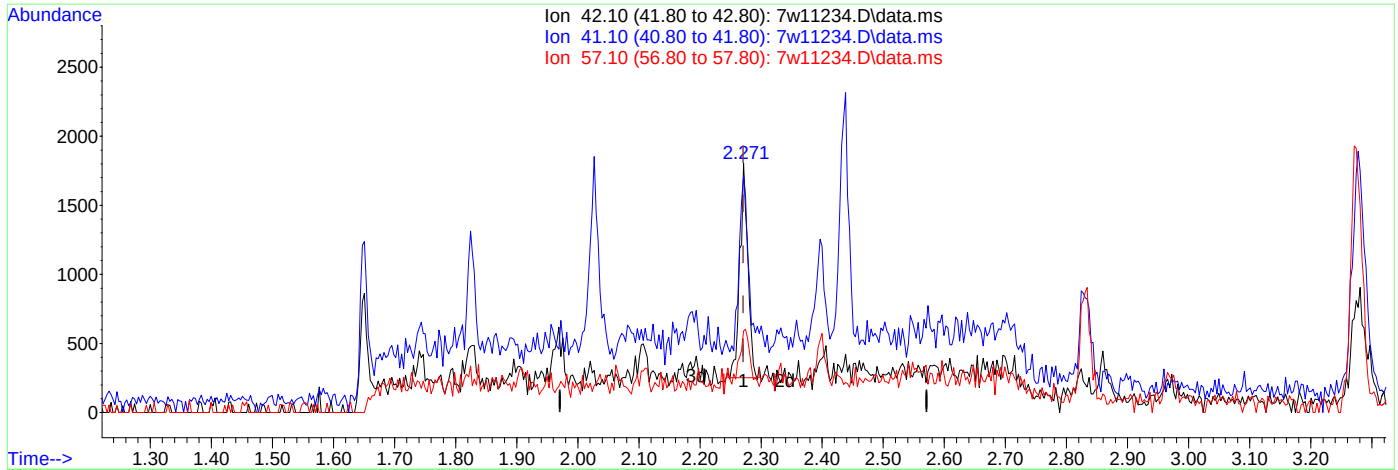
response 1928

Ion	Exp%	Act%
42.10	100	100
41.10	92.50	84.23
57.10	28.20	33.45
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(24) PENTANE (T)

2.271min (+0.000) 0.12PPBV m

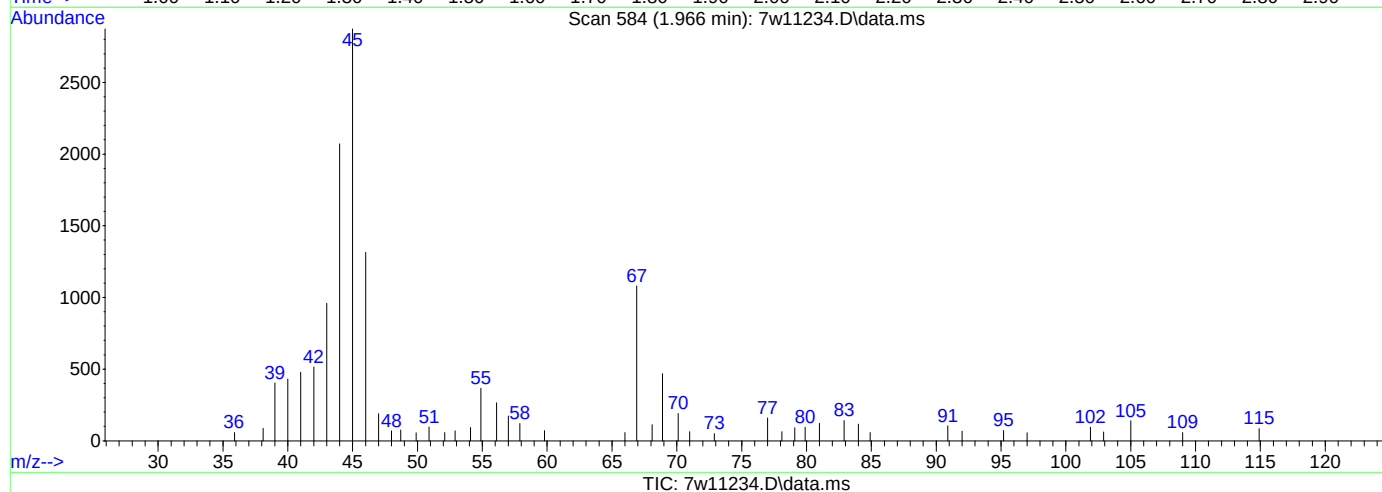
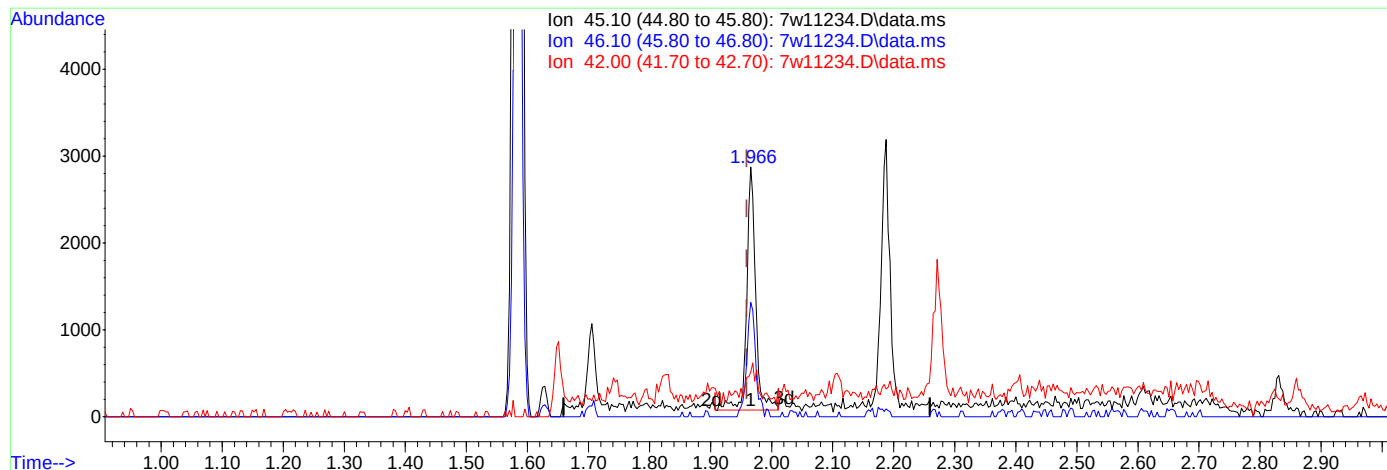
response 1433

Ion	Exp%	Act%
42.10	100	100
41.10	92.50	113.33
57.10	28.20	45.01#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(28) ETHANOL (T)

1.966min (+0.007) 0.31PPBV

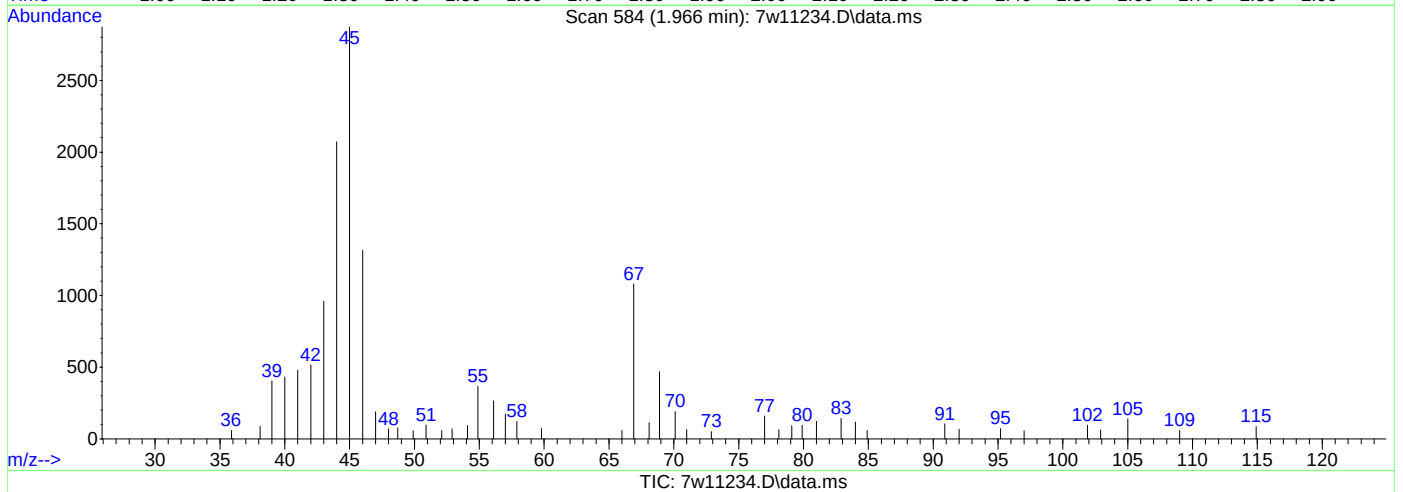
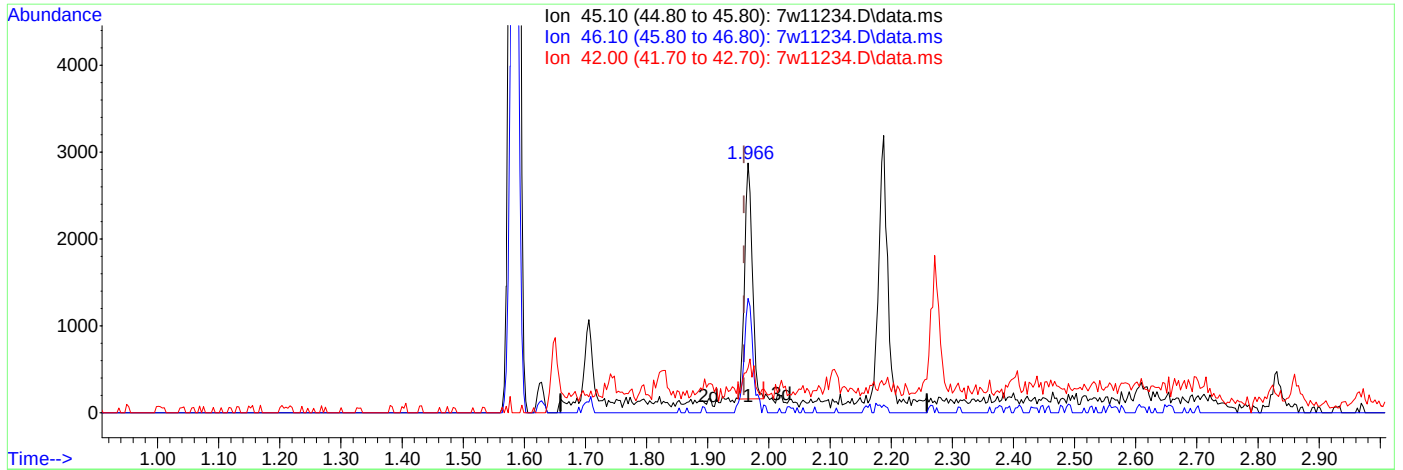
response 2854

Ion	Exp%	Act%
45.10	100	100
46.10	40.80	47.62
42.00	9.00	24.25#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(28) ETHANOL (T)

1.966min (+0.007) 0.26PPBV m

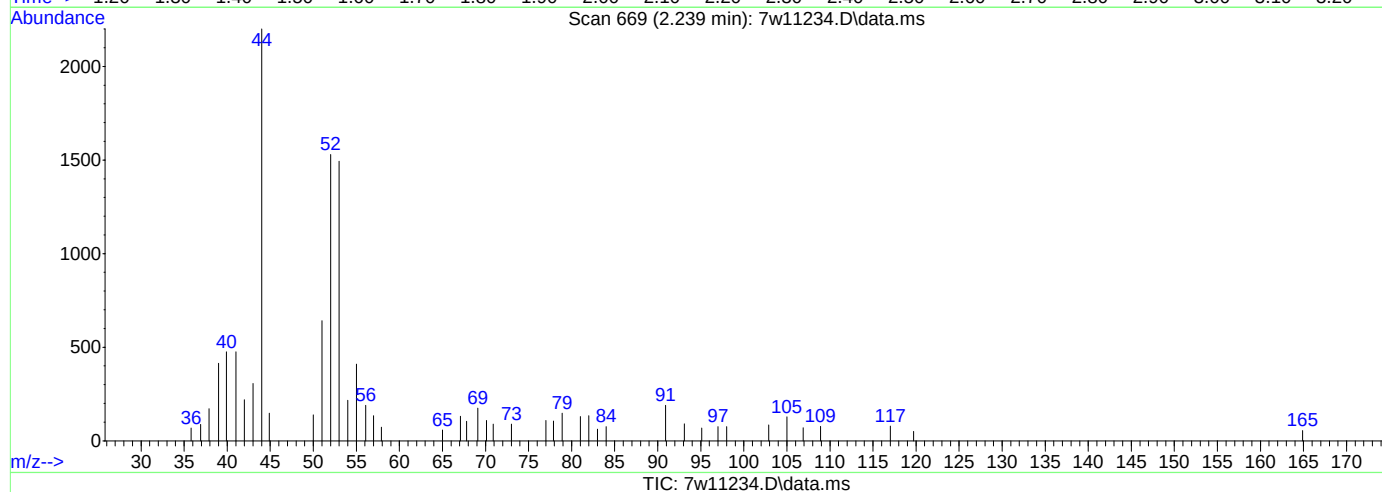
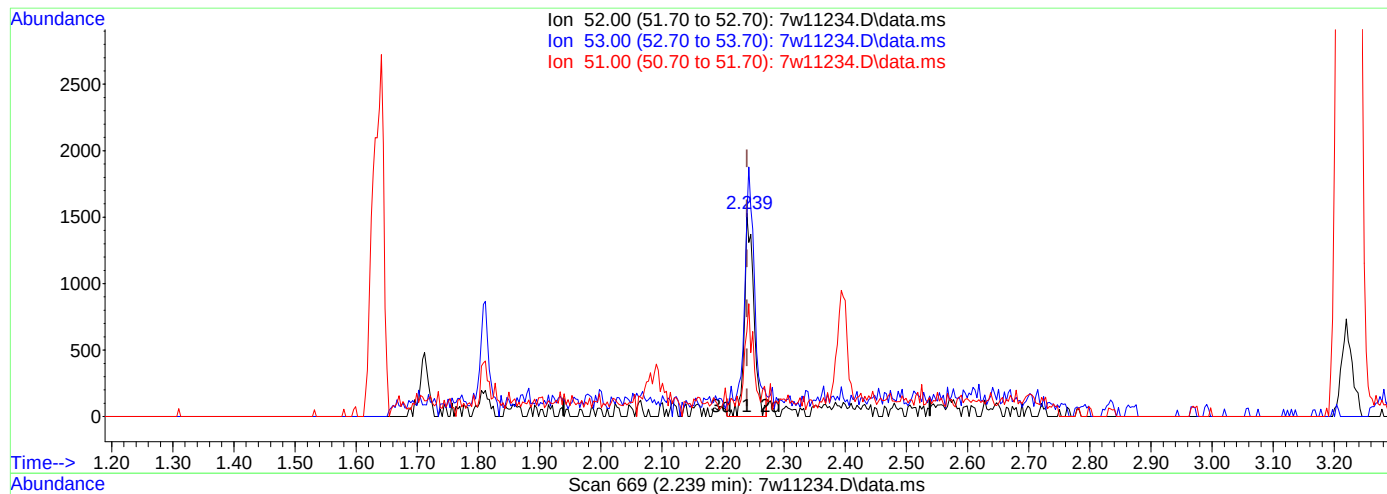
response 2393

Ion	Exp%	Act%
45.10	100	100
46.10	40.80	56.79#
42.00	9.00	28.92#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(30) ACRYLONITRILE (T)

2.239min (+0.000) 0.18PPBV

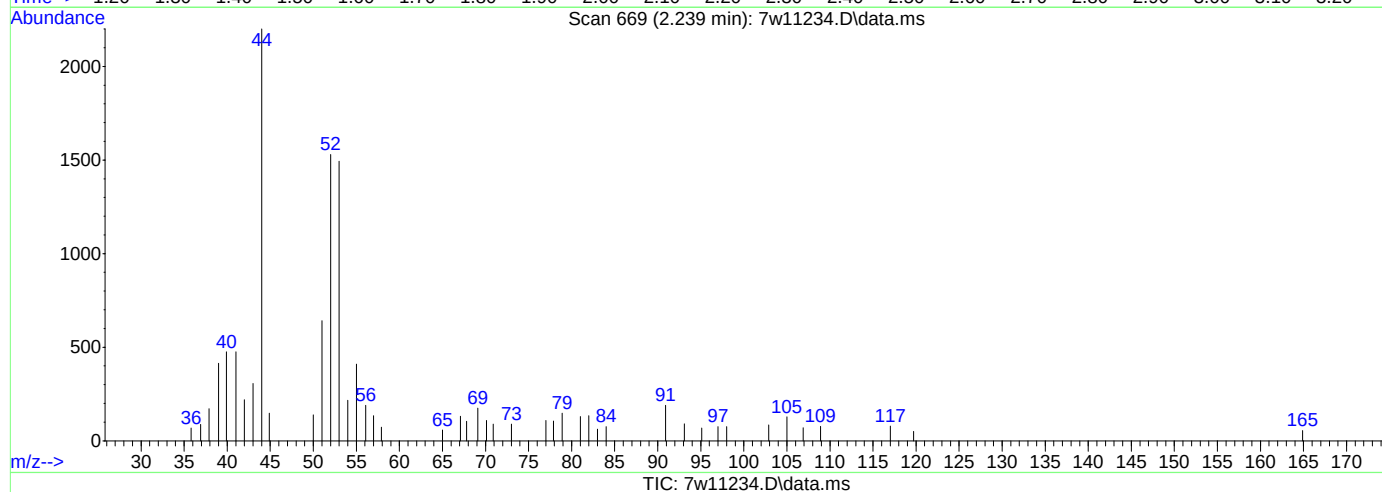
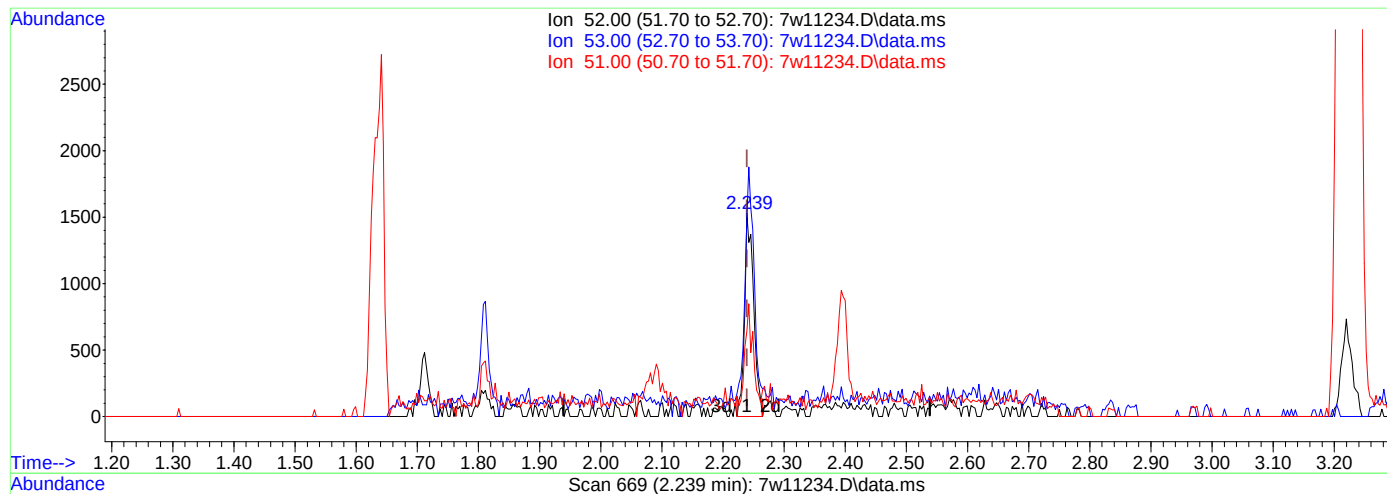
response 1634

Ion	Exp%	Act%
52.00	100	100
53.00	121.70	128.40
51.00	46.00	60.10#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(30) ACRYLONITRILE (T)

2.239min (+0.000) 0.18PPBV m

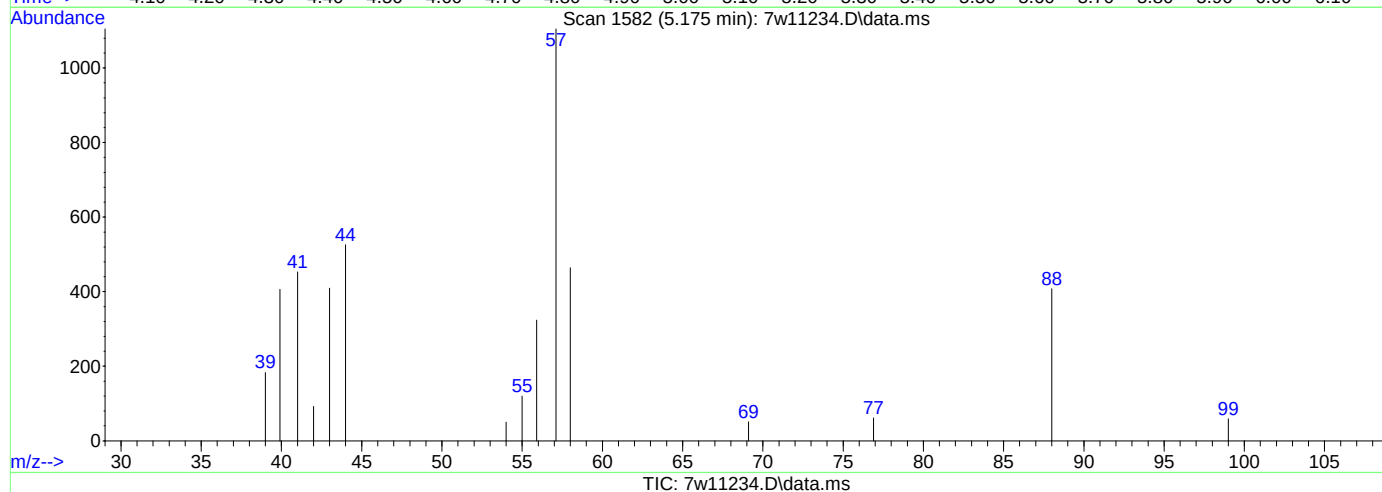
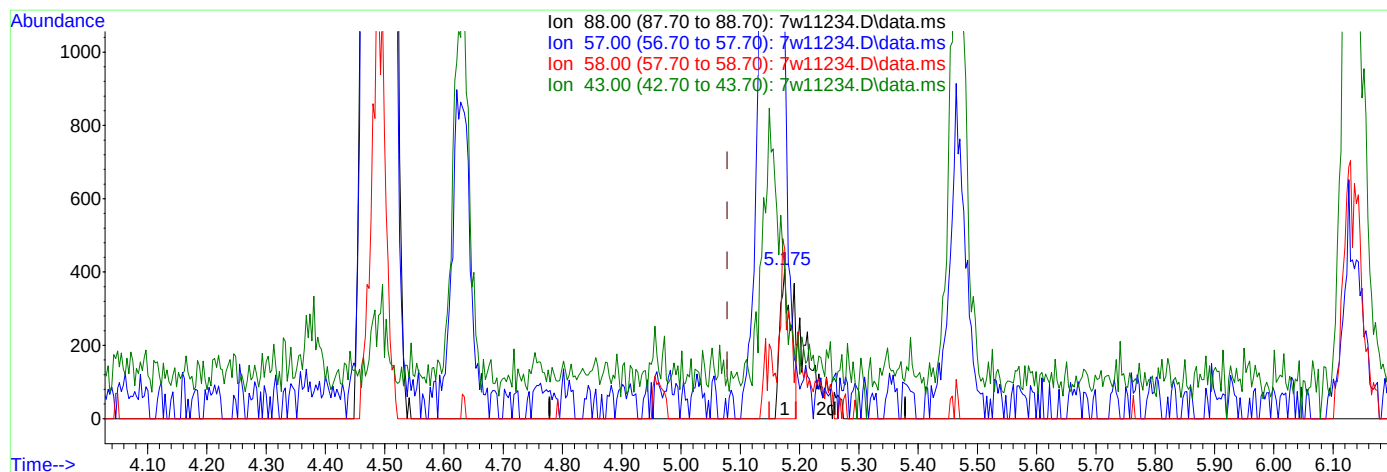
response 1573

Ion	Exp%	Act%
52.00	100	100
53.00	121.70	133.38
51.00	46.00	62.43#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(61) 1,4-DIOXANE (T)

5.175min (+0.097) 0.06PPBV

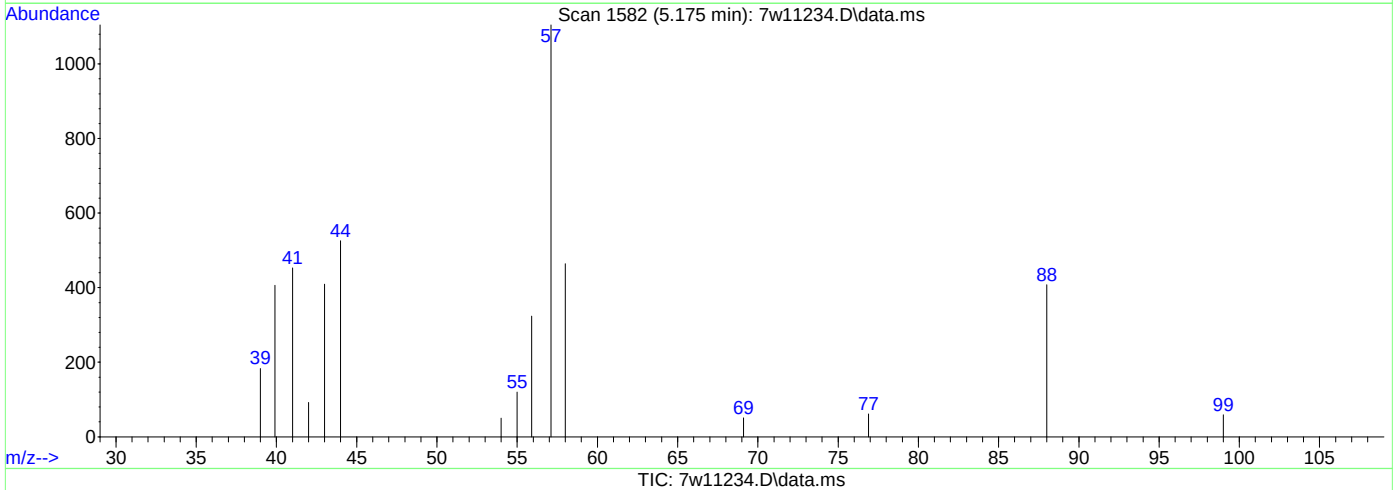
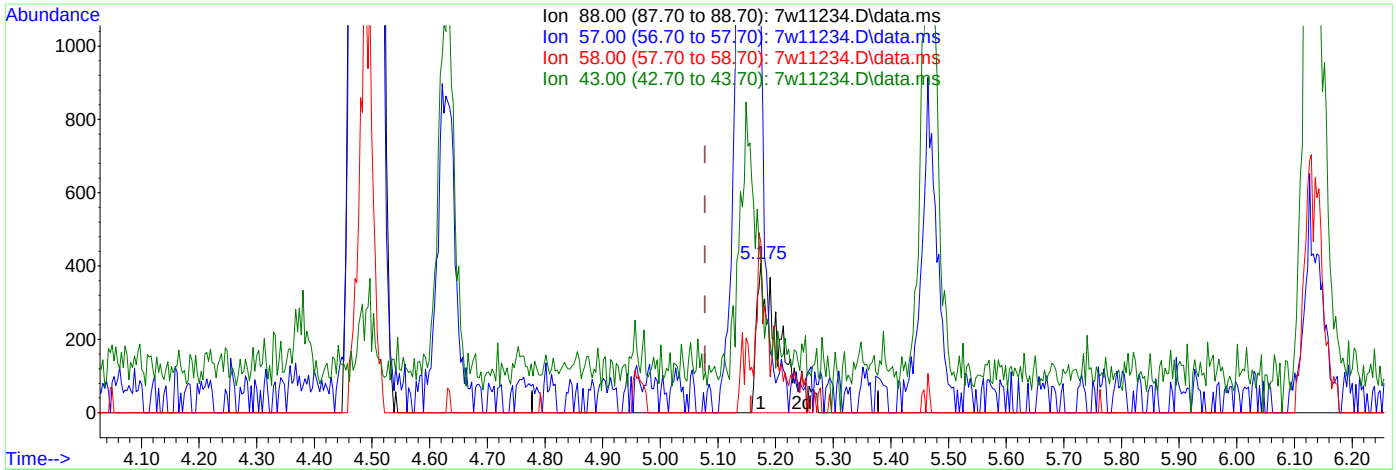
response 578

Ion	Exp%	Act%
88.00	100	100
57.00	21.40	1311.25#
58.00	71.40	125.43#
43.00	28.80	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11234.D
Acq On : 28 Dec 2024 9:53 am
Operator : benk
Sample : ic405-0.10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:54:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:51:08 2024
Response via : Initial Calibration



(61) 1,4-DIOXANE (T)

5.175min (+0.097) 0.10PPBV m

response 1055

Ion	Exp%	Act%
88.00	100	100
57.00	21.40	718.39#
58.00	71.40	68.72
43.00	28.80	0.00#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:49:48 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.226	128	135376	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.496	114	684640	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.033	117	633519	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.226	128	135376	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.383	95	453874	9.81	PPBV	0.00
Target Compounds						
						Qvalue
2) FREON 115	1.596	119	3166	0.30	PPBV	96
3) FREON 152A	1.625	65	1416	0.21	PPBV	98
4) CHLORODIFLUOROMETHANE	1.638	67	685	0.21	PPBV	87
5) CHLOROTRIFLUOROETHENE	1.647	116	3459	0.22	PPBV	98
6) DICHLORODIFLUOROMETHANE	1.667	85	7449	0.22	PPBV	99
7) PROPYLENE	1.647	41	1987	0.24	PPBV	93
8) 1-CHLORO-1,1-DIFLUOROE...	1.702	65	5376	0.22	PPBV #	86
9) FREON 114	1.737	85	5911	0.22	PPBV	97
10) CHLOROMETHANE	1.712	52	727	0.23	PPBV	87
11) VINYL CHLORIDE	1.769	62	2419	0.21	PPBV	94
12) 1,3-BUTADIENE	1.808	54	2115	0.24	PPBV	88
13) N-BUTANE	1.824	43	3862	0.24	PPBV #	82
14) BROMOMETHANE	1.885	94	2081	0.21	PPBV #	89
15) CHLOROETHANE	1.930	64	1245	0.21	PPBV #	76
16) DICHLOROFLUOROMETHANE	1.956	67	5342	0.22	PPBV	99
17) ACETONITRILE	2.030	41	2440m	0.24	PPBV	
18) ACROLEIN	2.068	56	1350	0.25	PPBV	100
19) FREON 123	2.075	83	5377	0.21	PPBV	97
20) FREON 123A	2.091	117	3608	0.23	PPBV	94
21) TRICHLOROFLUOROMETHANE	2.155	101	6612	0.22	PPBV #	98
22) ISOPROPYL ALCOHOL	2.204	45	6071	0.26	PPBV	97
23) ACETONE	2.120	58	2022m	0.33	PPBV	
24) PENTANE	2.271	42	2647	0.23	PPBV	89
25) IODOMETHANE	2.332	142	6124	0.22	PPBV	99
26) 1,1-DICHLOROETHYLENE	2.358	96	2396	0.22	PPBV	91
27) CARBON DISULFIDE	2.493	76	6168	0.21	PPBV #	67
28) ETHANOL	1.975	45	4943m	0.72	PPBV	
29) BROMOETHENE	2.030	106	2344	0.22	PPBV #	96
30) ACRYLONITRILE	2.245	52	3111	0.38	PPBV	98
31) METHYLENE CHLORIDE	2.396	84	3137	0.31	PPBV	95
32) 3-CHLOROPROPENE	2.435	76	1253	0.23	PPBV	67
33) FREON 113	2.493	151	4101	0.23	PPBV	100
34) TRANS-1,2-DICHLOROETHENE	2.718	96	2503	0.21	PPBV	97
35) TERTIARY BUTYL ALCOHOL	2.429	59	6213m	0.22	PPBV	
36) METHYL TERTIARY BUTYL ...	2.850	73	7955	0.23	PPBV #	82
37) TETRAHYDROFURAN	3.544	72	1188	0.20	PPBV	77
38) HEXANE	3.277	57	4751	0.22	PPBV	80
39) VINYL ACETATE	2.866	86	700	0.21	PPBV #	13
40) 1,1-DICHLOROETHANE	2.795	63	4780	0.21	PPBV	97
41) METHYL ETHYL KETONE	2.985	72	1419	0.23	PPBV #	93
42) CIS-1,2-DICHLOROETHENE	3.152	96	2745	0.22	PPBV	98
43) DIISOPROPYL ETHER	3.303	59	1508	0.25	PPBV	78
44) ETHYL ACETATE	3.310	61	982	0.23	PPBV	93
45) METHYL ACRYLATE	3.287	55	5637	0.22	PPBV #	99
46) CHLOROFORM	3.300	83	5495	0.22	PPBV	99
47) 2,4-DIMETHYLPENTANE	3.782	57	5377	0.22	PPBV	97
48) 1,1,1-TRICHLOROETHANE	3.866	97	5772	0.21	PPBV	99
49) CARBON TETRACHLORIDE	4.284	117	5354	0.19	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:49:48 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.702	62	3890	0.20	PPBV	98
51)	BENZENE	4.175	78	8300	0.23	PPBV	99
53)	CYCLOHEXANE	4.377	84	3553	0.22	PPBV	85
54)	2,3-DIMETHYLPENTANE	4.631	71	1803	0.21	PPBV	92
55)	TRICHLOROETHENE	5.062	95	3668	0.20	PPBV	99
56)	1,2-DICHLOROPROPANE	4.837	63	3210	0.21	PPBV	97
57)	DIBROMOMETHANE	4.792	174	3311	0.21	PPBV	94
58)	ETHYL ACRYLATE	4.975	55	7267	0.22	PPBV	96
59)	BROMODICHLOROMETHANE	5.004	83	5589	0.19	PPBV	92
60)	2,2,4-TRIMETHYLPENTANE	5.158	57	13895	0.21	PPBV	96
61)	1,4-DIOXANE	5.226	88	2954m	0.31	PPBV	
62)	HEPTANE	5.470	43	5154	0.22	PPBV	97
63)	METHYL METHACRYLATE	5.387	69	3544	0.25	PPBV	90
64)	METHYL ISOBUTYL KETONE	6.171	58	4409	0.33	PPBV	96
65)	CIS-1,3-DICHLOROPROPENE	5.991	75	4758	0.19	PPBV #	81
66)	TOLUENE	7.190	91	10267	0.22	PPBV	99
67)	1,3-DICHLOROPROPANE	7.252	76	4741	0.20	PPBV	98
68)	TRANS-1,3-DICHLOROPROPENE	6.666	75	4218	0.18	PPBV	94
69)	1,1,2-TRICHLOROETHANE	6.817	83	2927	0.22	PPBV	95
70)	2-HEXANONE	7.850	58	8903	0.45	PPBV #	94
71)	ETHYL METHACRYLATE	7.920	69	5702	0.23	PPBV	95
72)	TETRACHLOROETHENE	8.904	164	3981	0.21	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.721	129	5562	0.19	PPBV	99
74)	1,2-DIBROMOETHANE	8.055	107	5085	0.20	PPBV #	97
75)	OCTANE	9.052	43	7512	0.23	PPBV	96
77)	1,1,1,2-TETRACHLOROETHANE	10.123	131	4267	0.20	PPBV	97
78)	CHLOROBENZENE	10.104	112	7768	0.20	PPBV	98
79)	ETHYLBENZENE	10.991	91	13983	0.23	PPBV	95
80)	M,P-XYLENE	11.425	91	20795	0.42	PPBV	96
81)	O-XYLENE	12.341	91	10737	0.22	PPBV	94
82)	STYRENE	12.142	104	7305	0.20	PPBV	100
83)	NONANE	13.470	43	7304	0.22	PPBV	97
84)	BROMOFORM	11.219	173	4859	0.19	PPBV	98
85)	1,1,2,2-TETRACHLOROETHANE	12.361	83	6988	0.21	PPBV	98
86)	1,2,3-TRICHLOROPROPANE	12.640	75	5385	0.20	PPBV #	99
88)	ISOPROPYLBENZENE	13.859	120	3932	0.20	PPBV	91
89)	BROMOBENZENE	13.718	77	7079	0.20	PPBV	99
90)	2-CHLOROTOLUENE	14.853	126	3458	0.19	PPBV	99
91)	N-PROPYLBENZENE	15.197	120	3814	0.19	PPBV	99
92)	4-ETHYLTOLUENE	15.640	105	14151	0.20	PPBV #	98
93)	1,3,5-TRIMETHYLBENZENE	15.914	105	12096	0.20	PPBV	97
94)	ALPHA-METHYLSTYRENE	16.216	118	5670	0.18	PPBV	99
95)	TERT-BUTYLBENZENE	16.525	134	2992	0.21	PPBV	95
96)	1,2,4-TRIMETHYLBENZENE	16.534	105	12308	0.20	PPBV	99
97)	BENZYL CHLORIDE	16.624	91	9192	0.16	PPBV	99
98)	M-DICHLOROBENZENE	16.598	146	7938	0.19	PPBV	98
99)	P-DICHLOROBENZENE	16.692	146	8082	0.20	PPBV	99
100)	O-DICHLOROBENZENE	17.010	146	7837	0.20	PPBV	99
101)	SEC-BUTYLBENZENE	16.836	134	3638	0.20	PPBV	98
102)	1,2,3-TRIMETHYLBENZENE	16.955	105	12052	0.20	PPBV	97
103)	P-ISOPROPYLTOLUENE	17.033	134	4106	0.21	PPBV	98
104)	N-BUTYLBENZENE	17.399	134	3733	0.19	PPBV	94
105)	HEXACHLOROETHANE	17.573	117	4492	0.19	PPBV	97
106)	HEXACHLOROBUTADIENE	18.634	225	5552	0.19	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.322	180	5074	0.14	PPBV	96
108)	NAPHTHALENE	18.370	128	9939	0.13	PPBV	98
110)	VHC as equiv Pentane	2.271	TIC	12241m	0.22	PPBV	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:49:48 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration

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

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

7.7.27

7

(QT Reviewed)

Quant Time: Dec 29 05:49:48 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V7W405-IC405

Method: TO-15

Lab FileID: 7W11235.D

Analyst approved: 12/30/24 00:11 Kanya Veerawat

Injection Time: 12/28/24 10:32

Supervisor approved: 12/30/24 00:15 Kanya Veerawat

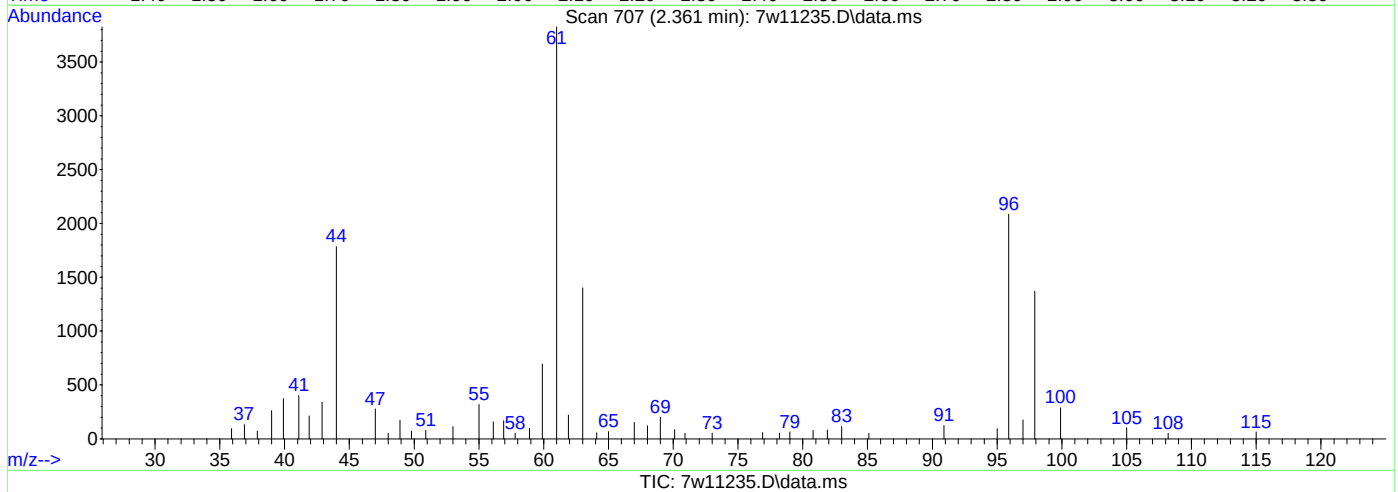
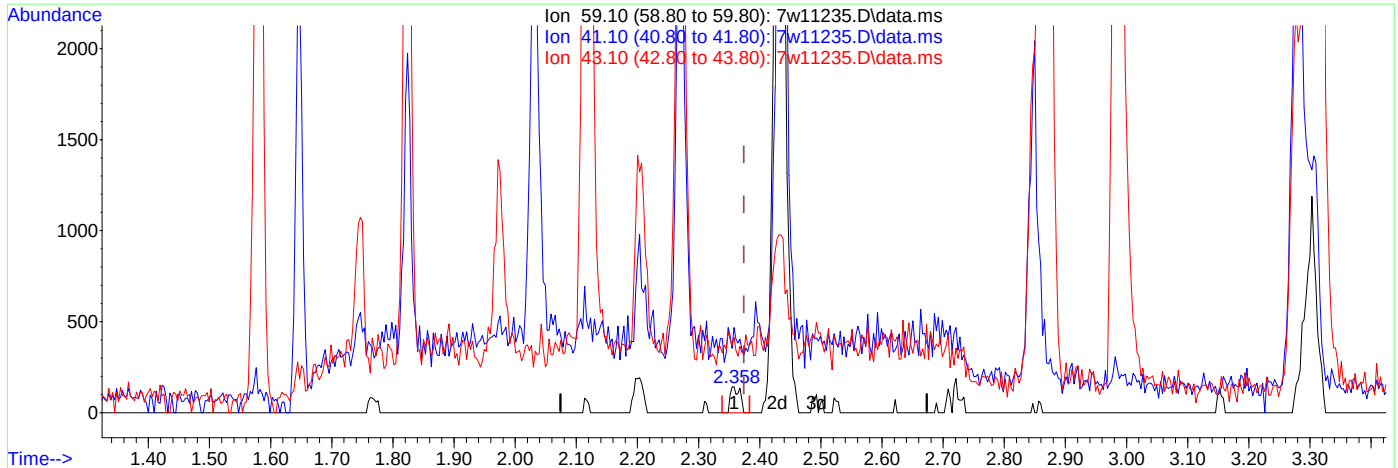
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethanol	64-17-5		1.98	Poor instrument integration
Acetonitrile	75-05-8		2.03	Poor instrument integration
Acetone (2-Propanone)	67-64-1		2.12	Poor instrument integration
TVHC As Equiv Pentane			2.27	Missed peak
Tertiary Butyl Alcohol	75-65-0		2.43	Missed peak
1,4-Dioxane	123-91-1		5.23	Poor instrument integration

7.7.27.1
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:29:55 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(35) TERTIARY BUTYL ALCOHOL (T)

2.358min (-0.016) 0.01PPBV

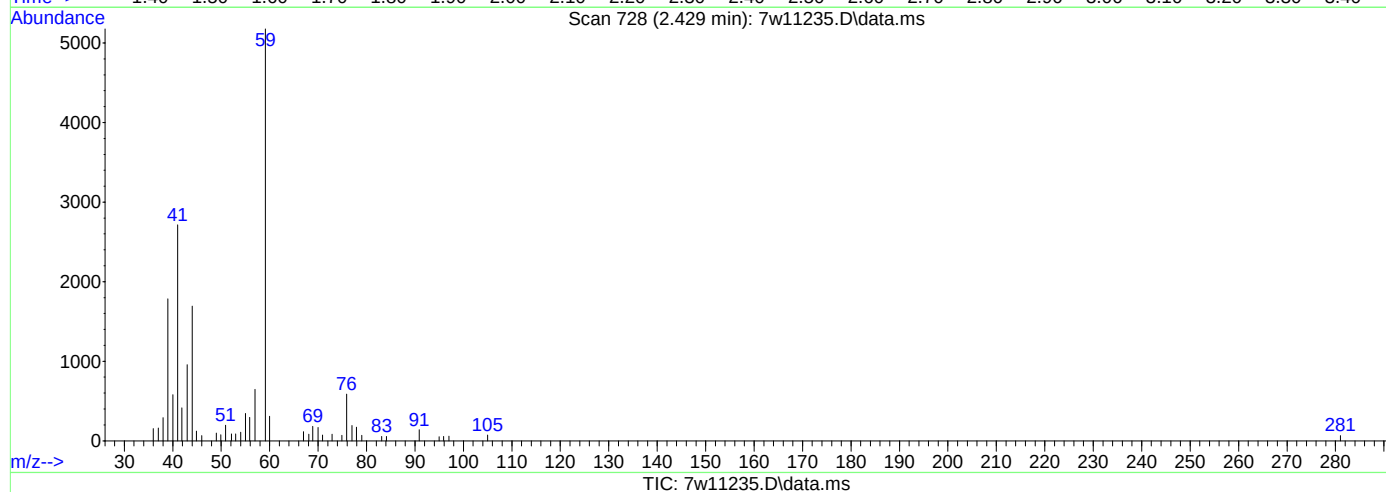
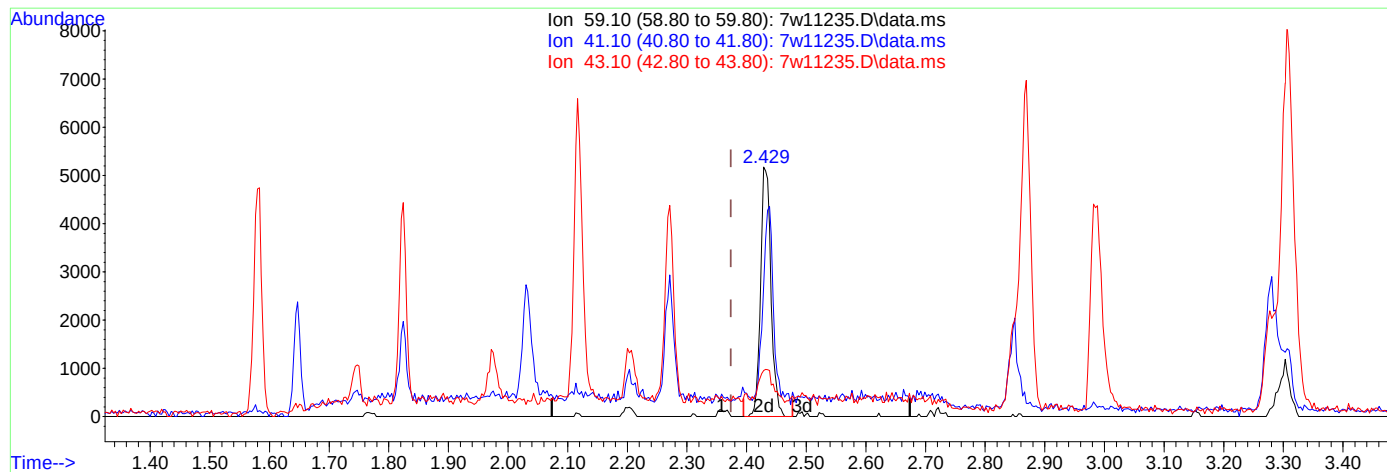
response 153

Ion	Exp%	Act%
59.10	100	100
41.10	20.40	87.58#
43.10	14.20	81.70#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:29:55 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(35) TERTIARY BUTYL ALCOHOL (T)

2.429min (+0.055) 0.22PPBV m

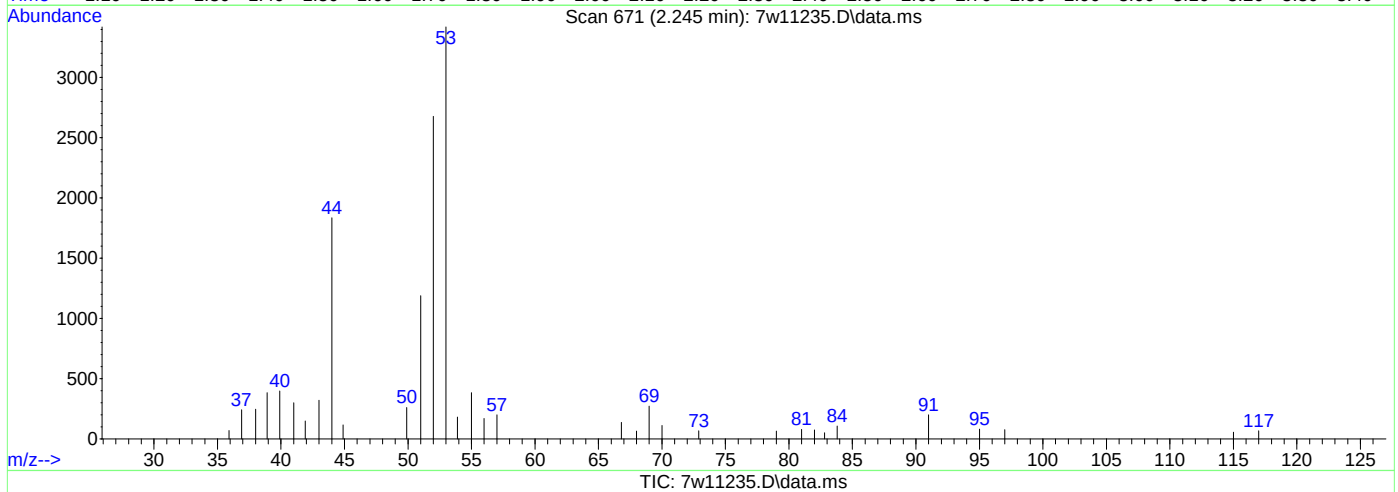
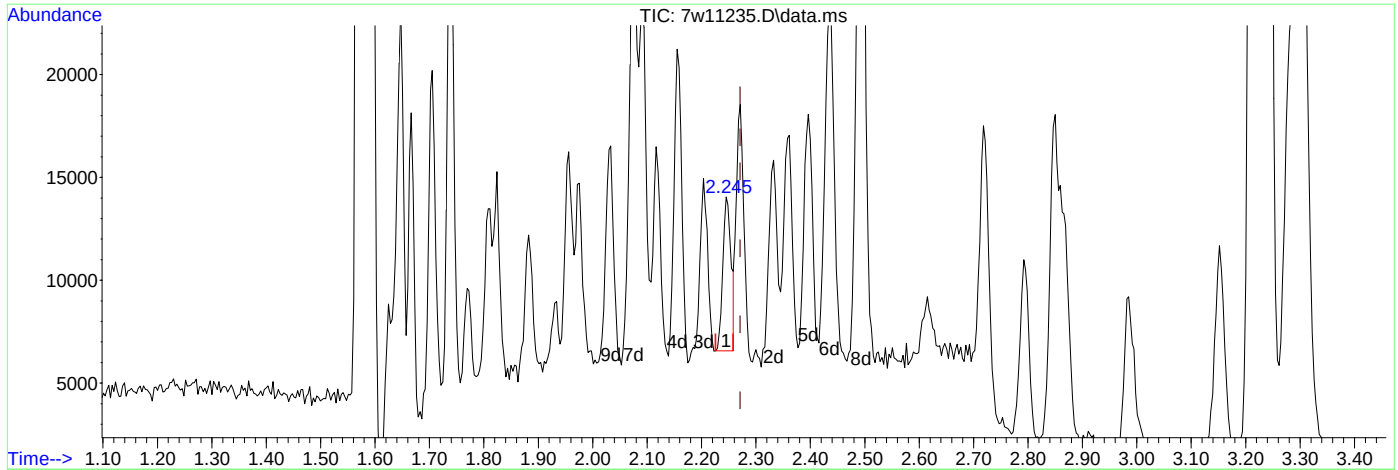
response 6213

Ion	Exp%	Act%
59.10	100	100
41.10	20.40	2.16#
43.10	14.20	2.01#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:29:55 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(110) TVHC as equiv Pentane

2.245min (-0.026) 0.14PPBV

response 7940

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

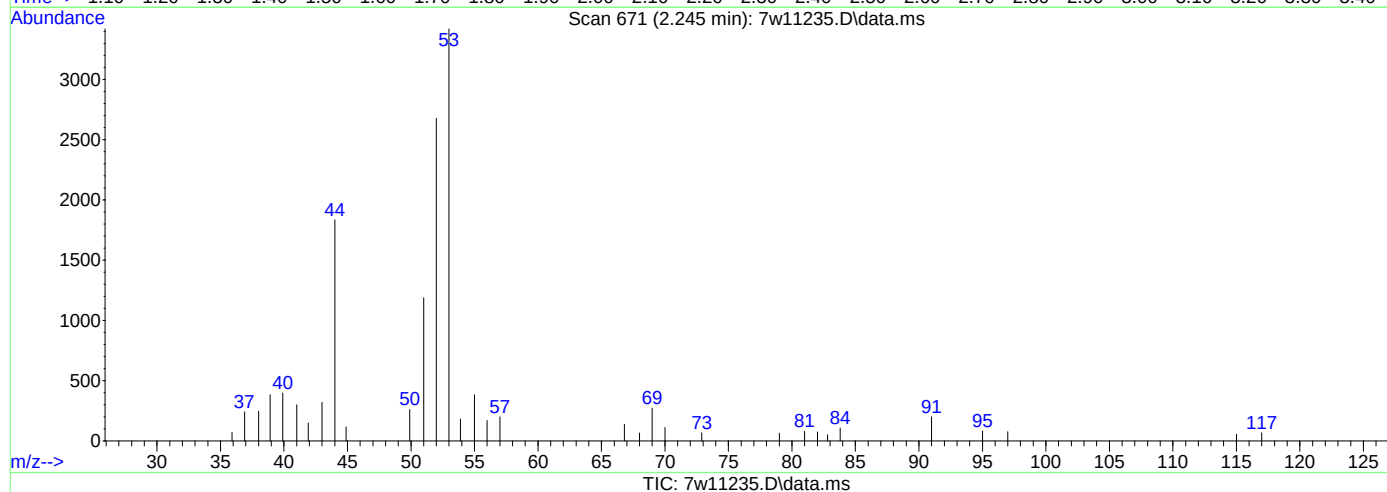
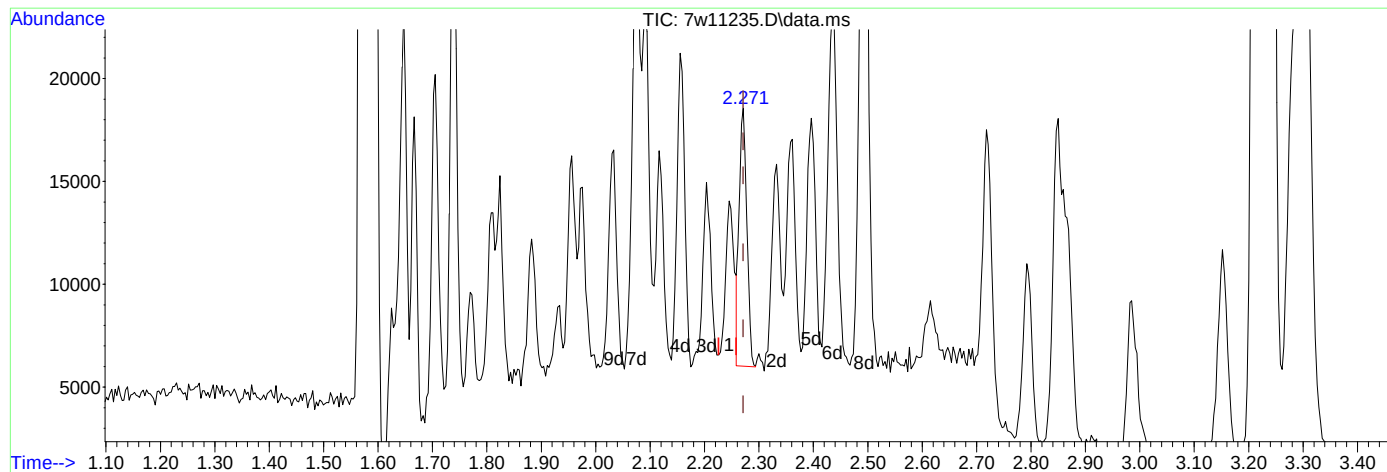
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:29:55 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(110) TVHC as equiv Pentane

2.271min (+0.000) 0.22PPBV m

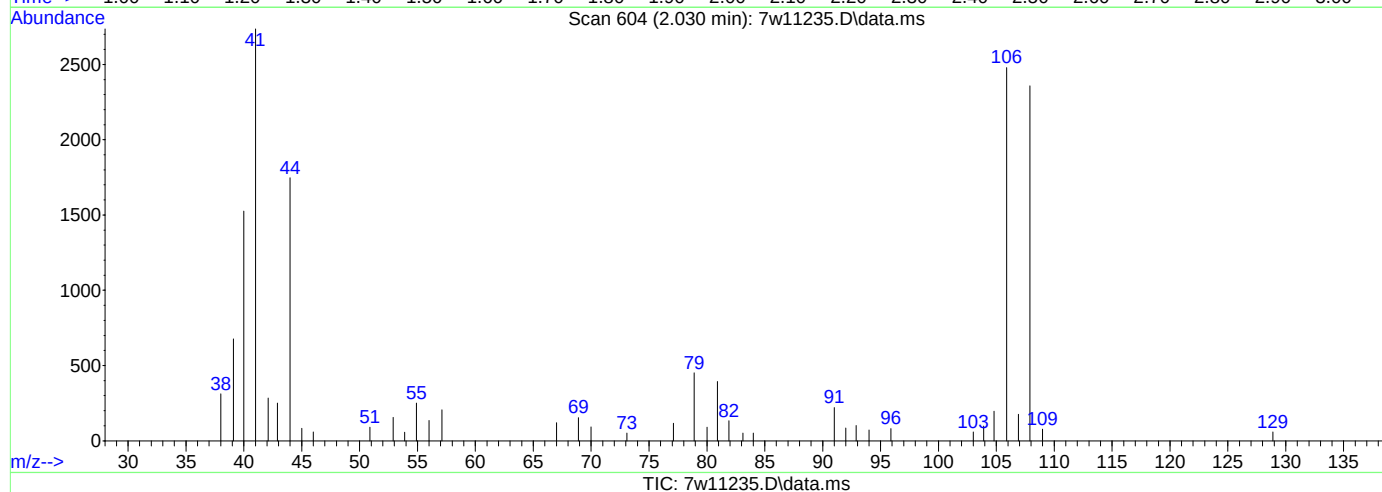
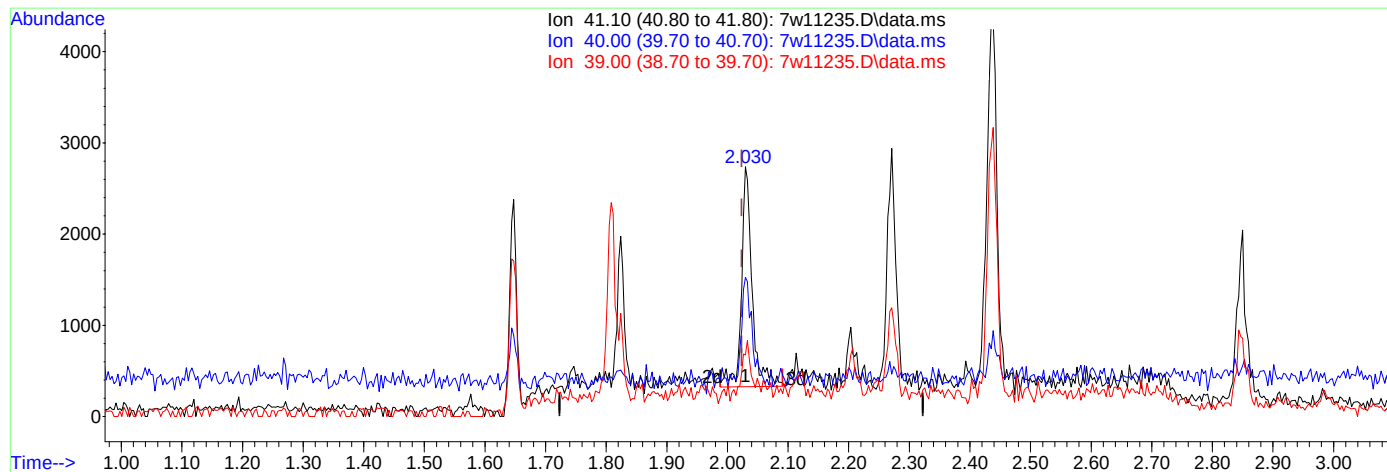
response 12241

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:32:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(17) ACETONITRILE (T)

2.030min (+0.007) 0.30PPBV

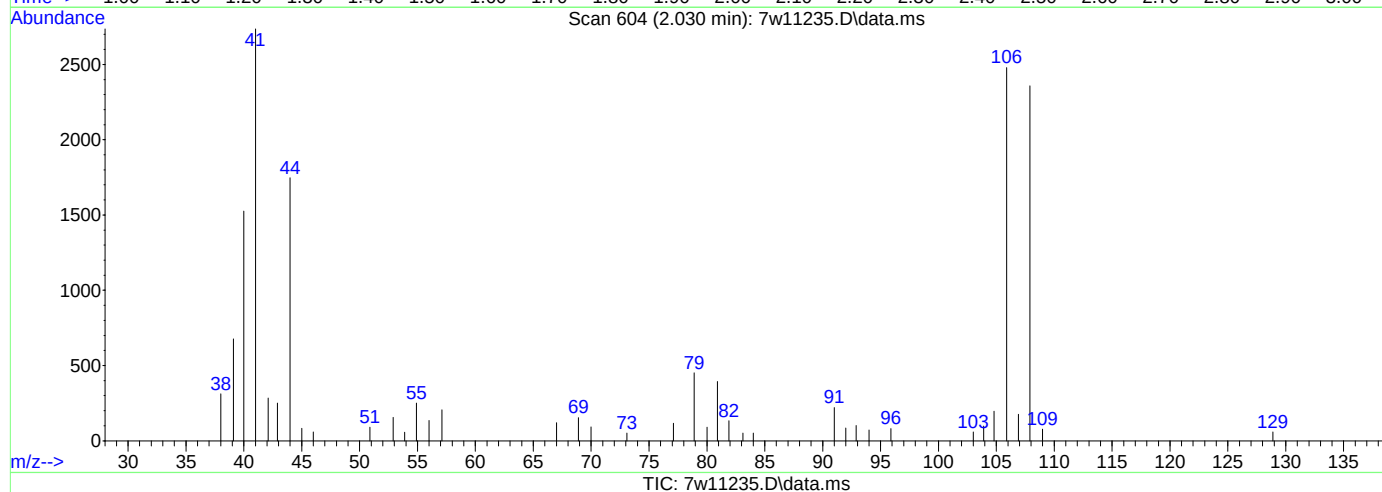
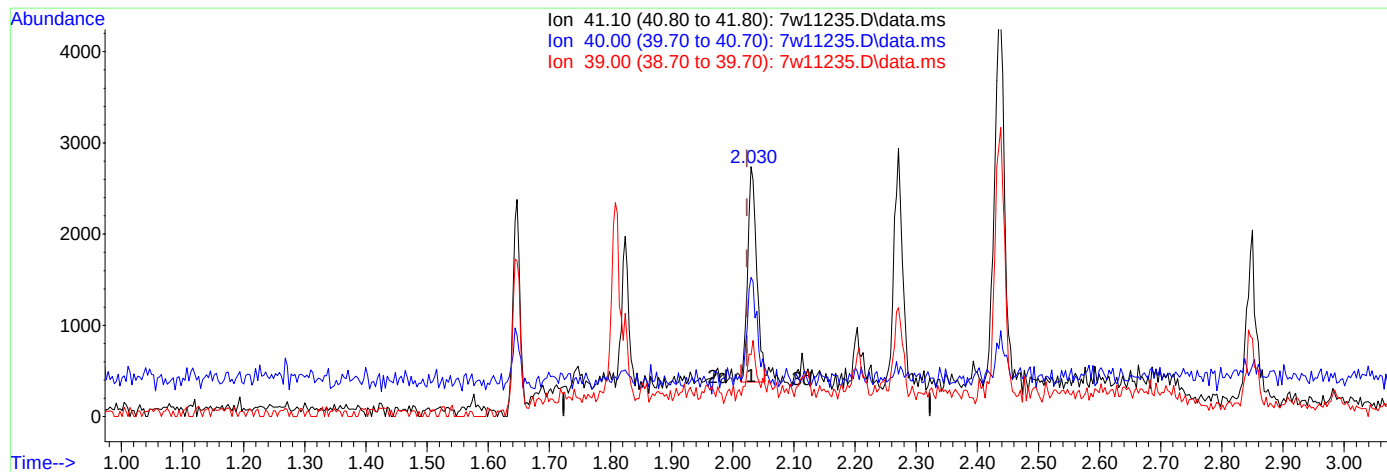
response 2967

Ion	Exp%	Act%
41.10	100	100
40.00	54.20	51.53
39.00	19.70	22.01
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:32:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(17) ACETONITRILE (T)

2.030min (+0.007) 0.24PPBV m

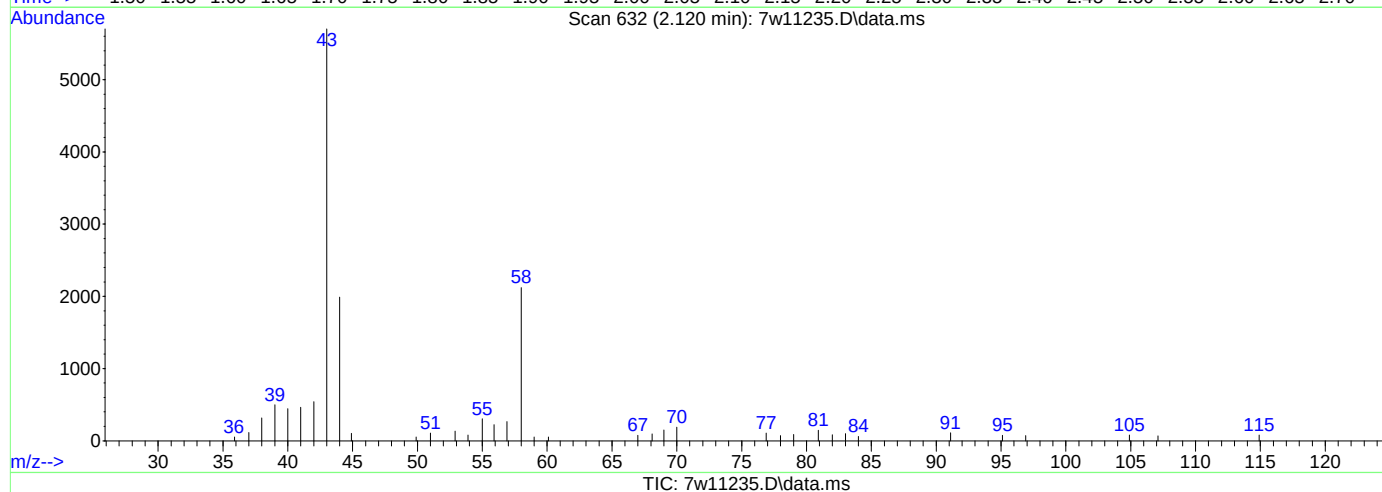
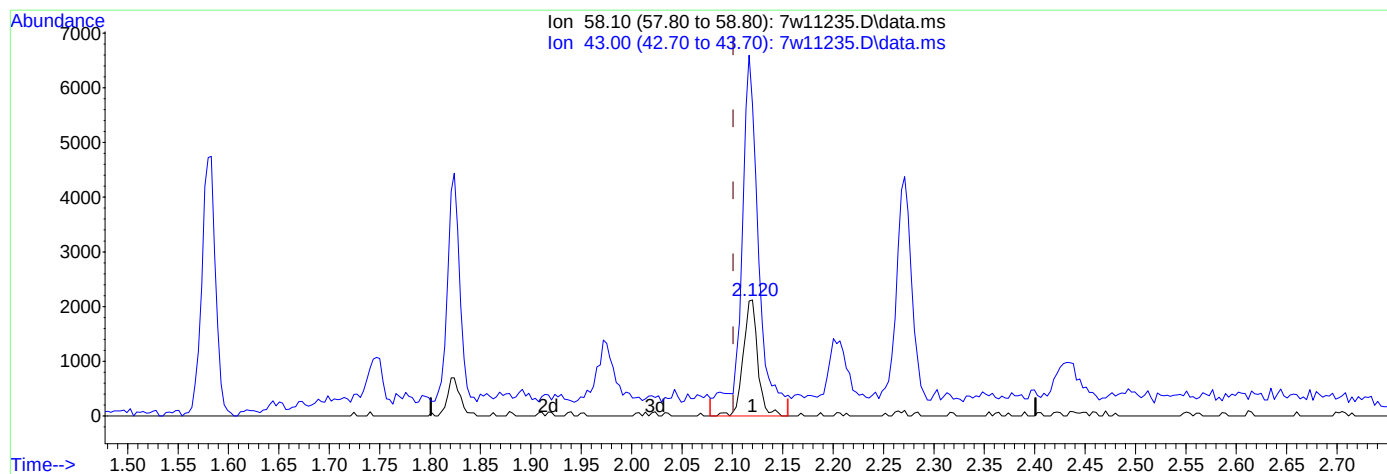
response 2440

Ion	Exp%	Act%
41.10	100	100
40.00	54.20	62.66
39.00	19.70	26.76#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:32:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(23) ACETONE (T)

2.120min (+0.019) 0.34PPBV

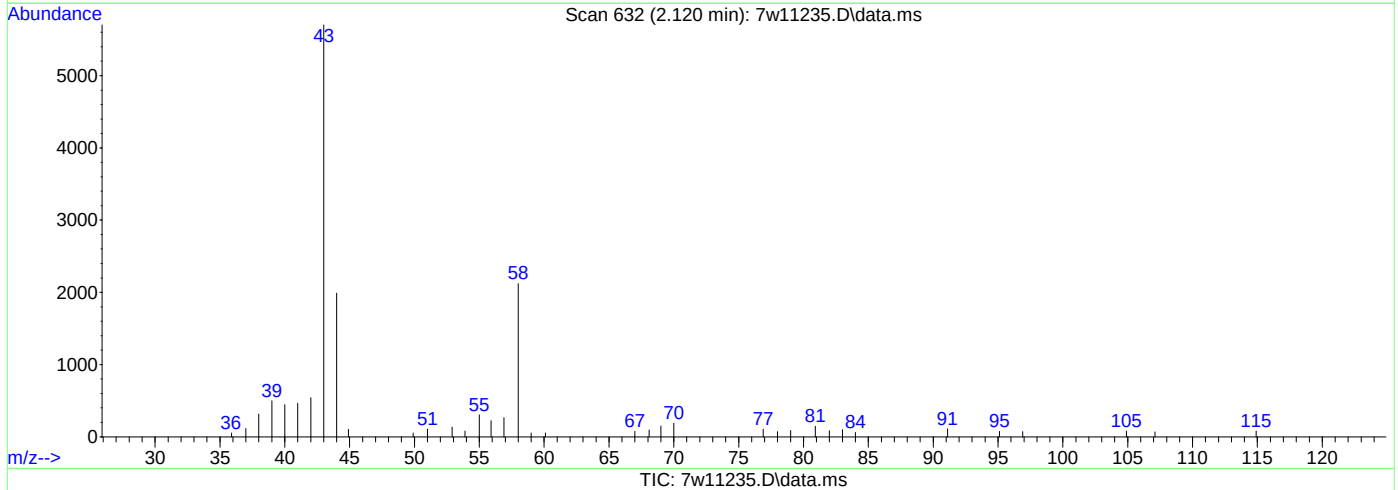
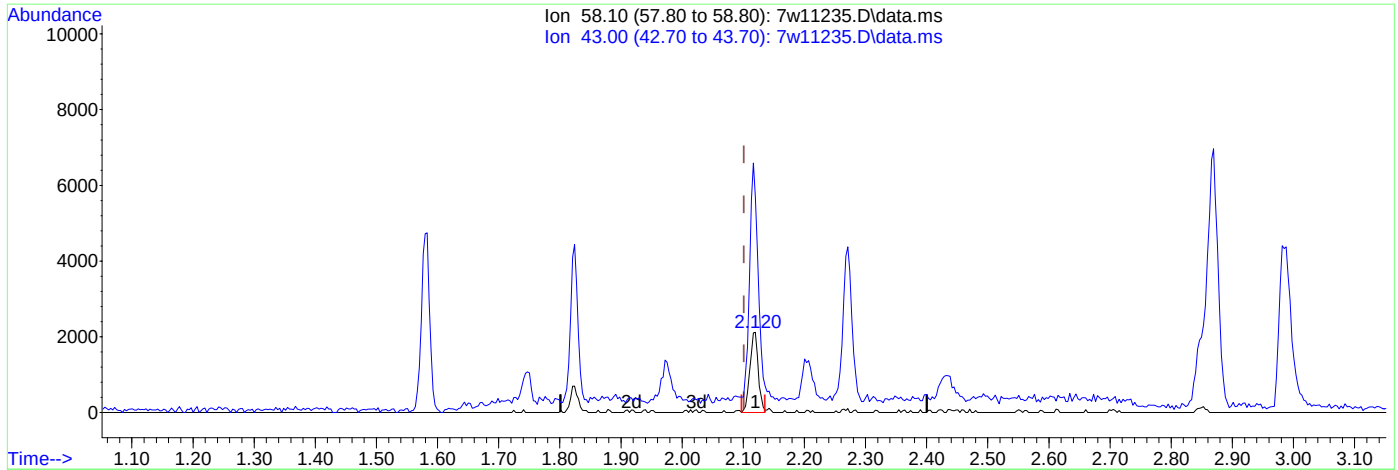
response 2106

Ion	Exp%	Act%
58.10	100	100
43.00	334.80	308.07
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:32:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(23) ACETONE (T)

2.120min (+0.019) 0.33PPBV m

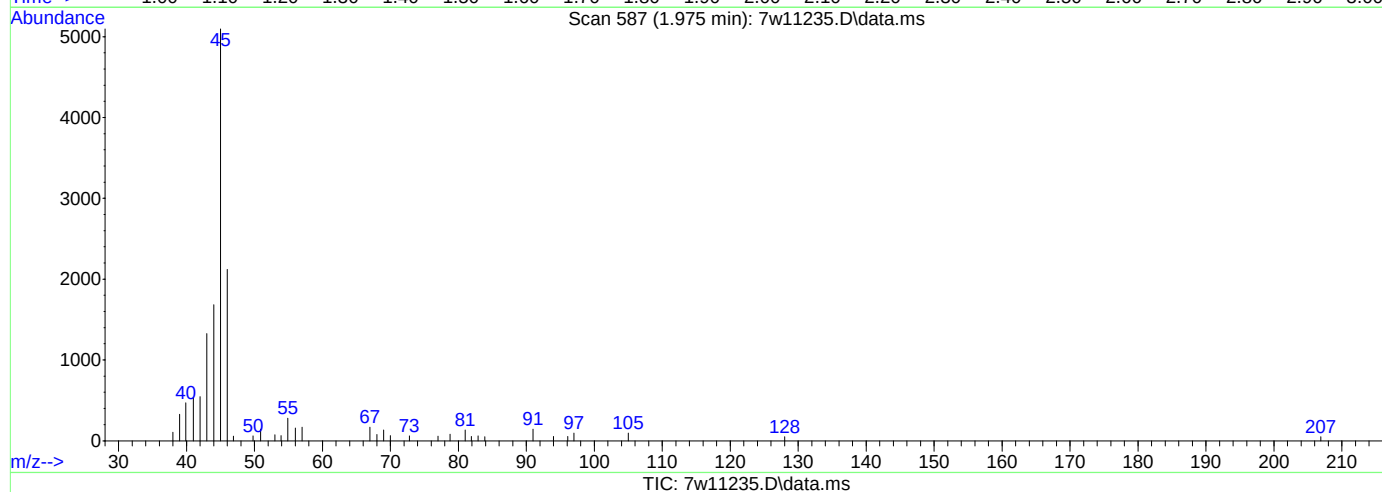
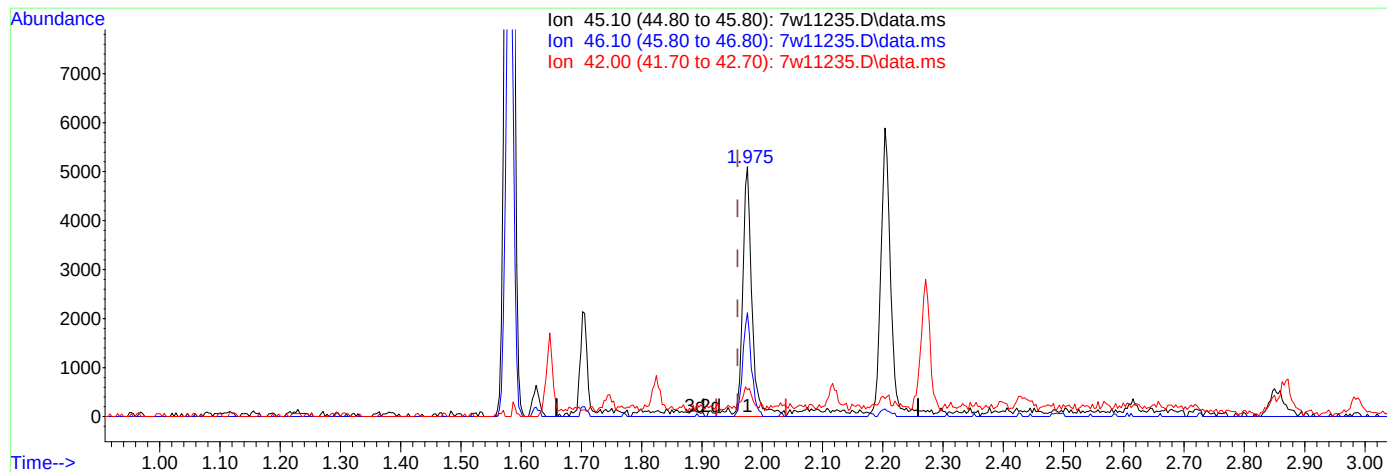
response 2022

Ion	Exp%	Act%
58.10	100	100
43.00	334.80	320.87
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:32:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(28) ETHANOL (T)

1.975min (+0.016) 0.80PPBV

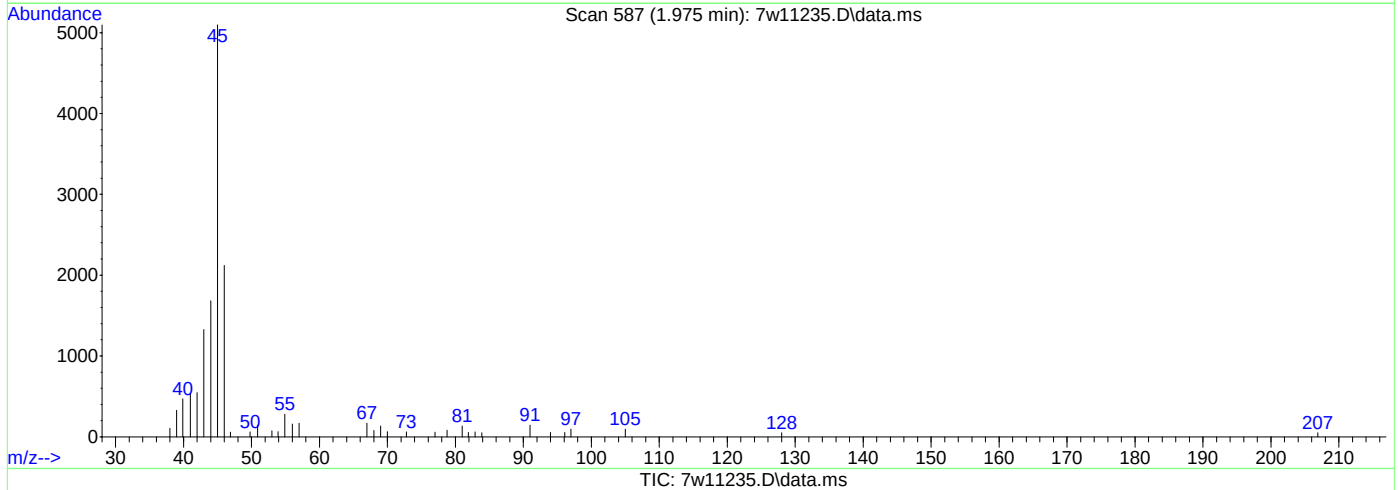
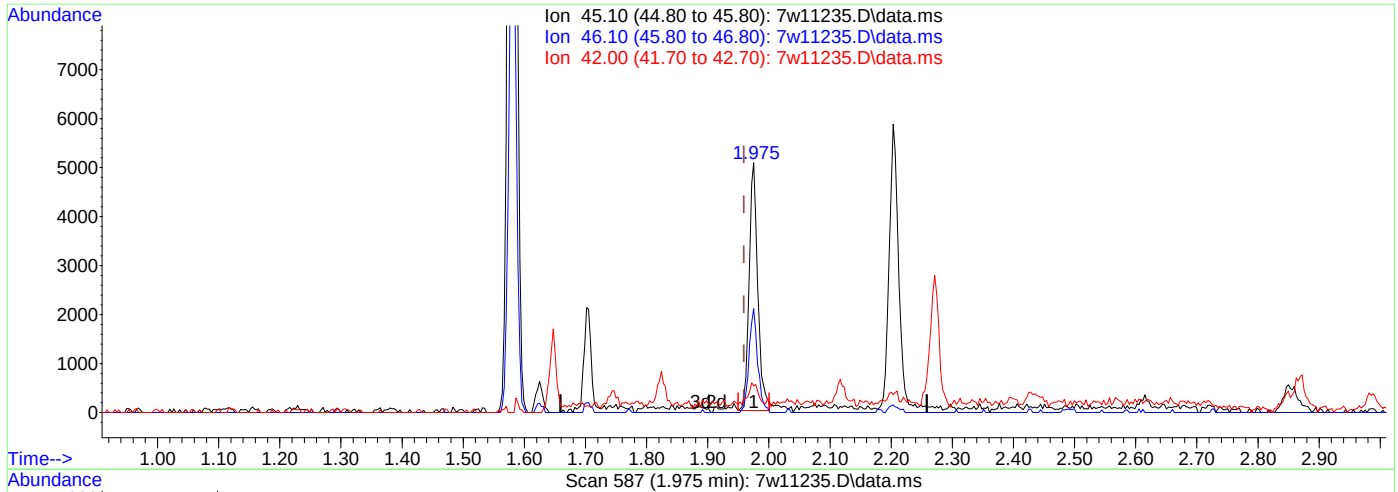
response 5504

Ion	Exp%	Act%
45.10	100	100
46.10	40.80	37.95
42.00	9.00	11.10
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:32:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(28) ETHANOL (T)

1.975min (+0.016) 0.72PPBV m

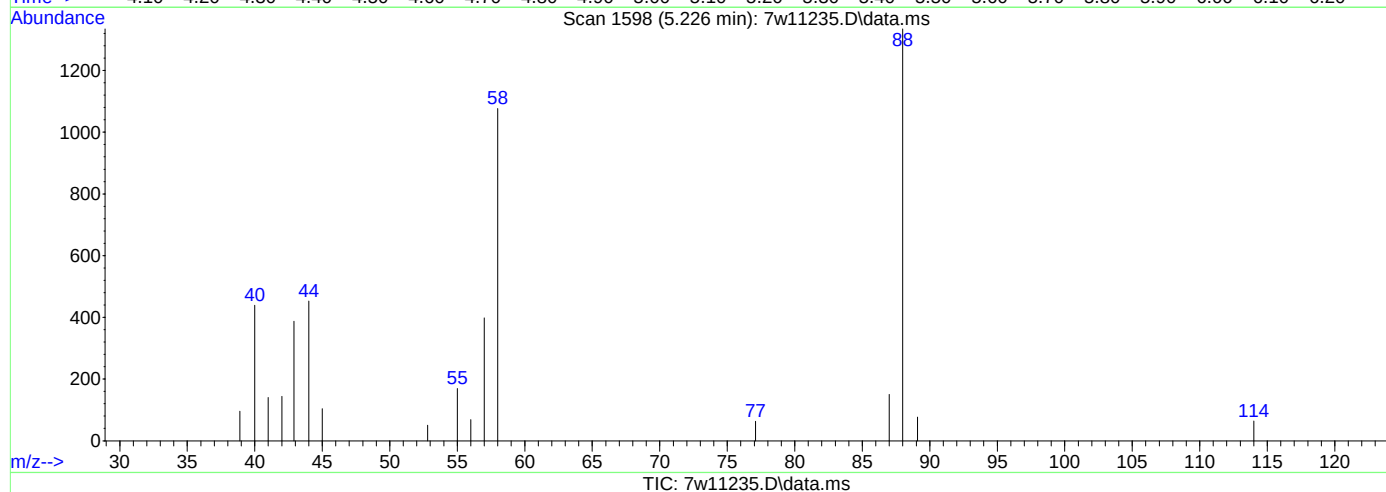
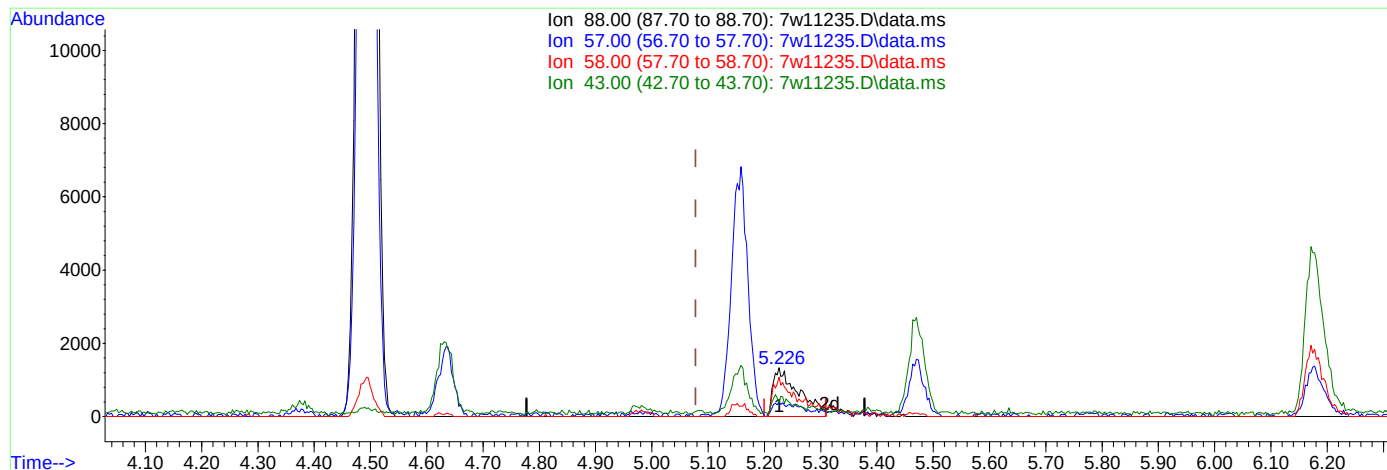
response 4943

Ion	Exp%	Act%
45.10	100	100
46.10	40.80	42.26
42.00	9.00	12.36#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:32:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(61) 1,4-DIOXANE (T)

5.226min (+0.148) 0.43PPBV

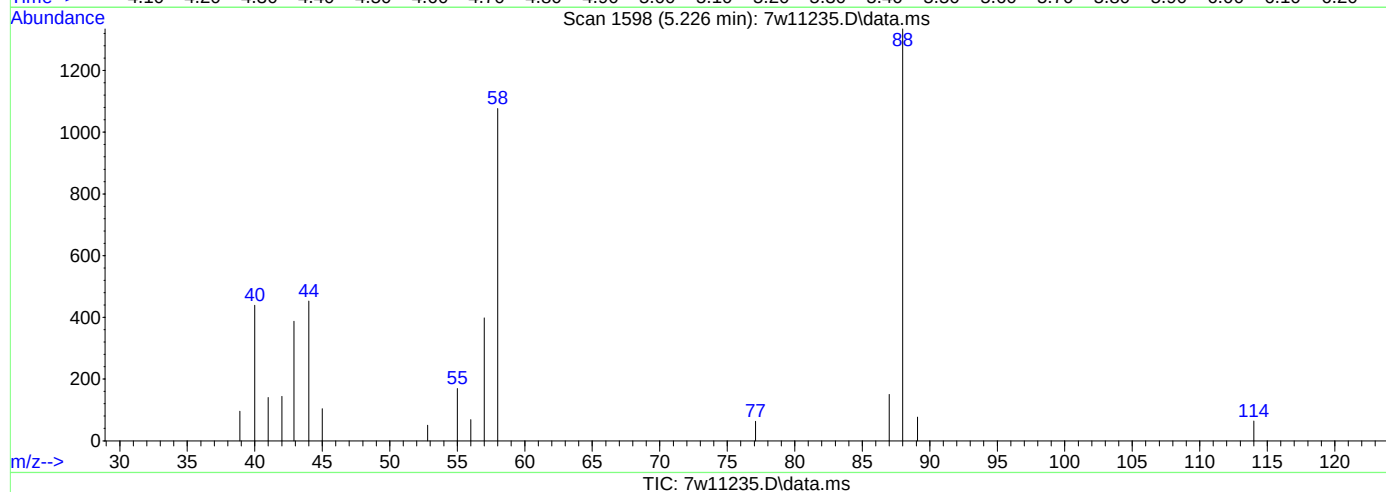
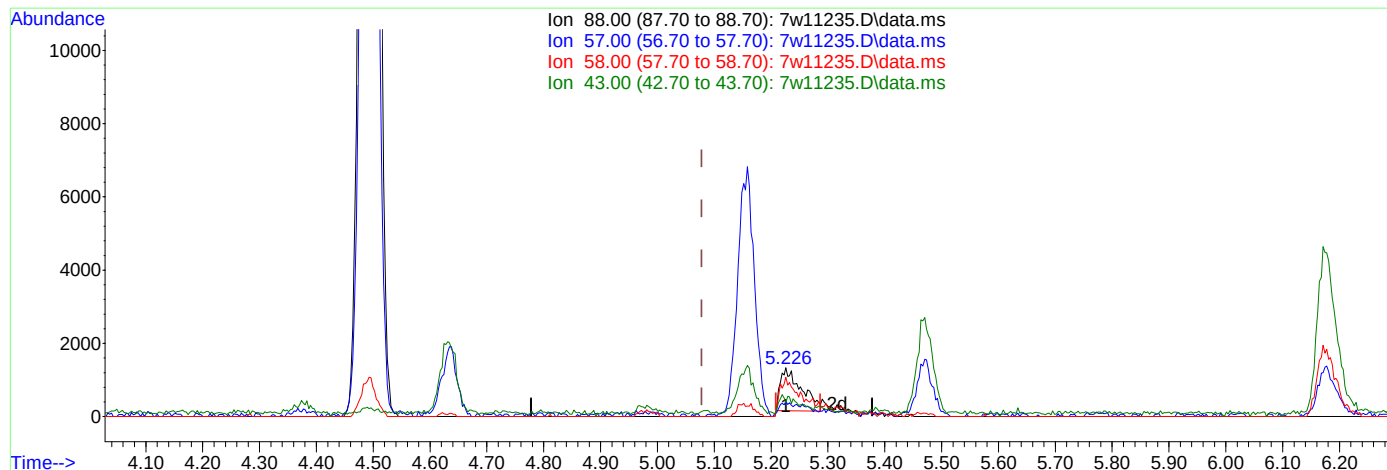
response 4150

Ion	Exp%	Act%
88.00	100	100
57.00	21.40	33.30#
58.00	71.40	76.77
43.00	28.80	37.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11235.D
Acq On : 28 Dec 2024 10:32 am
Operator : benk
Sample : ic405-0.20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 29 05:32:56 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:28:20 2024
Response via : Initial Calibration



(61) 1,4-DIOXANE (T)

5.226min (+0.148) 0.31PPBV m

response 2954

Ion	Exp%	Act%
88.00	100	100
57.00	21.40	46.78#
58.00	71.40	107.85#
43.00	28.80	52.27#

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11237.D
Acq On : 28 Dec 2024 11:51 am
Operator : benk
Sample : ic405-0.50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:20:53 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:06:59 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.226	128	130126	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.493	114	661732	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.030	117	600657	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.226	128	130126	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.380	95	428848	9.74	PPBV	0.00
Target Compounds						
						Qvalue
2) FREON 115	1.596	119	7461	0.80	PPBV	97
3) FREON 152A	1.628	65	3457	0.54	PPBV	98
4) CHLORODIFLUOROMETHANE	1.641	67	1753	0.56	PPBV	93
5) CHLOROTRIFLUOROETHENE	1.650	116	8201	0.53	PPBV	98
6) DICHLORODIFLUOROMETHANE	1.667	85	17786	0.54	PPBV	99
7) PROPYLENE	1.647	41	4729	0.61	PPBV	96
8) 1-CHLORO-1,1-DIFLUOROE...	1.705	65	13030	0.55	PPBV	97
9) FREON 114	1.737	85	14652	0.56	PPBV	100
10) CHLOROMETHANE	1.708	52	1636	0.53	PPBV	89
11) VINYL CHLORIDE	1.769	62	5781	0.52	PPBV	99
12) 1,3-BUTADIENE	1.808	54	4670	0.56	PPBV	85
13) N-BUTANE	1.824	43	9329	0.60	PPBV #	93
14) BROMOMETHANE	1.885	94	5284	0.56	PPBV	98
15) CHLOROETHANE	1.933	64	3113	0.55	PPBV	95
16) DICHLOROFLUOROMETHANE	1.956	67	12553	0.55	PPBV	97
17) ACETONITRILE	2.027	41	5180	0.55	PPBV	98
18) ACROLEIN	2.065	56	2982	0.60	PPBV	92
19) FREON 123	2.075	83	13106	0.55	PPBV	98
20) FREON 123A	2.094	117	8580	0.57	PPBV	98
21) TRICHLOROFLUOROMETHANE	2.155	101	15558	0.54	PPBV	94
22) ISOPROPYL ALCOHOL	2.184	45	12758	0.57	PPBV	94
23) ACETONE	2.107	58	3383	0.59	PPBV	95
24) PENTANE	2.271	42	6568	0.59	PPBV	99
25) IODOMETHANE	2.332	142	15154	0.57	PPBV	100
26) 1,1-DICHLOROETHYLENE	2.358	96	6019	0.58	PPBV	93
27) CARBON DISULFIDE	2.493	76	15735	0.55	PPBV #	87
28) ETHANOL	1.962	45	4727m	0.78	PPBV	
29) BROMOETHENE	2.030	106	5411	0.54	PPBV #	93
30) ACRYLONITRILE	2.242	52	4847	0.63	PPBV	94
31) METHYLENE CHLORIDE	2.396	84	6063m	0.66	PPBV	
32) 3-CHLOROPROPENE	2.438	76	2853	0.54	PPBV	99
33) FREON 113	2.490	151	9324	0.54	PPBV	97
34) TRANS-1,2-DICHLOROETHENE	2.718	96	6105	0.55	PPBV	97
35) TERTIARY BUTYL ALCOHOL	2.396	59	14539	0.54	PPBV	92
36) METHYL TERTIARY BUTYL ...	2.830	73	18535	0.56	PPBV #	94
37) TETRAHYDROFURAN	3.525	72	2976	0.54	PPBV	93
38) HEXANE	3.277	57	11414	0.57	PPBV	98
39) VINYL ACETATE	2.863	86	1803	0.56	PPBV	90
40) 1,1-DICHLOROETHANE	2.792	63	11928	0.56	PPBV	100
41) METHYL ETHYL KETONE	2.965	72	3166	0.55	PPBV	95
42) CIS-1,2-DICHLOROETHENE	3.152	96	6909	0.57	PPBV	96
43) DIISOPROPYL ETHER	3.284	59	3289	0.57	PPBV	96
44) ETHYL ACETATE	3.290	61	2317	0.56	PPBV	96
45) METHYL ACRYLATE	3.277	55	13660	0.56	PPBV #	99
46) CHLOROFORM	3.297	83	13724	0.58	PPBV	98
47) 2,4-DIMETHYLPENTANE	3.785	57	12969	0.56	PPBV	97
48) 1,1,1-TRICHLOROETHANE	3.863	97	14399	0.56	PPBV	99
49) CARBON TETRACHLORIDE	4.284	117	13974	0.50	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
 Data File : 7w11237.D
 Acq On : 28 Dec 2024 11:51 am
 Operator : benk
 Sample : ic405-0.50
 Misc : MS74014,v7w405,,,,,1
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:20:53 2024
 Quant Method : C:\msdchem\1\methods\M7W405.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Sun Dec 29 05:06:59 2024
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.702	62	10257	0.56	PPBV	99
51)	BENZENE	4.171	78	19367	0.57	PPBV	99
53)	CYCLOHEXANE	4.374	84	8799	0.56	PPBV	96
54)	2,3-DIMETHYLPENTANE	4.634	71	4644	0.58	PPBV	97
55)	TRICHLOROETHENE	5.059	95	9453	0.55	PPBV	95
56)	1,2-DICHLOROPROPANE	4.827	63	7706	0.53	PPBV	99
57)	DIBROMOMETHANE	4.792	174	8465	0.57	PPBV	98
58)	ETHYL ACRYLATE	4.956	55	16033	0.50	PPBV	96
59)	BROMODICHLOROMETHANE	5.007	83	14110	0.50	PPBV	95
60)	2,2,4-TRIMETHYLPENTANE	5.152	57	35677	0.56	PPBV	100
61)	1,4-DIOXANE	5.139	88	4905	0.53	PPBV #	1
62)	HEPTANE	5.467	43	13181	0.59	PPBV	96
63)	METHYL METHACRYLATE	5.371	69	7721	0.56	PPBV	98
64)	METHYL ISOBUTYL KETONE	6.116	58	6846	0.53	PPBV	94
65)	CIS-1,3-DICHLOROPROPENE	5.988	75	12166	0.51	PPBV	96
66)	TOLUENE	7.184	91	24314	0.53	PPBV	99
67)	1,3-DICHLOROPROPANE	7.245	76	11960	0.53	PPBV	99
68)	TRANS-1,3-DICHLOROPROPENE	6.663	75	10484	0.46	PPBV	92
69)	1,1,2-TRICHLOROETHANE	6.817	83	7092	0.54	PPBV	98
70)	2-HEXANONE	7.788	58	9642	0.50	PPBV	98
71)	ETHYL METHACRYLATE	7.898	69	12529	0.51	PPBV	99
72)	TETRACHLOROETHENE	8.904	164	9969	0.56	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.721	129	14205	0.49	PPBV	98
74)	1,2-DIBROMOETHANE	8.055	107	13114	0.53	PPBV	99
75)	OCTANE	9.055	43	17337	0.55	PPBV	98
77)	1,1,1,2-TETRACHLOROETHANE	10.113	131	10660	0.53	PPBV	97
78)	CHLOROBENZENE	10.103	112	19943	0.55	PPBV	99
79)	ETHYLBENZENE	10.988	91	32514	0.56	PPBV	100
80)	M,P-XYLENE	11.409	91	51003	1.10	PPBV	94
81)	O-XYLENE	12.341	91	25344	0.55	PPBV	99
82)	STYRENE	12.136	104	18328	0.51	PPBV	99
83)	NONANE	13.470	43	17721	0.55	PPBV	98
84)	BROMOFORM	11.219	173	12250	0.49	PPBV	100
85)	1,1,2,2-TETRACHLOROETHANE	12.351	83	17300	0.54	PPBV	99
86)	1,2,3-TRICHLOROPROPANE	12.640	75	13495	0.52	PPBV #	99
88)	ISOPROPYLBENZENE	13.849	120	9703	0.52	PPBV	97
89)	BROMOBENZENE	13.714	77	17543	0.51	PPBV	97
90)	2-CHLOROTOLUENE	14.849	126	8301	0.48	PPBV	99
91)	N-PROPYLBENZENE	15.190	120	9518	0.49	PPBV	99
92)	4-ETHYLTOLUENE	15.640	105	34399	0.50	PPBV #	99
93)	1,3,5-TRIMETHYLBENZENE	15.914	105	29336	0.51	PPBV	98
94)	ALPHA-METHYLSTYRENE	16.209	118	13890	0.46	PPBV	98
95)	TERT-BUTYLBENZENE	16.524	134	7147	0.52	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.534	105	29945	0.52	PPBV	100
97)	BENZYL CHLORIDE	16.624	91	22336	0.41	PPBV	98
98)	M-DICHLOROBENZENE	16.595	146	19313	0.48	PPBV	99
99)	P-DICHLOROBENZENE	16.688	146	19478	0.50	PPBV	100
100)	O-DICHLOROBENZENE	17.007	146	18748	0.51	PPBV	99
101)	SEC-BUTYLBENZENE	16.836	134	8964	0.52	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	16.952	105	29312	0.51	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.029	134	9615	0.50	PPBV	95
104)	N-BUTYLBENZENE	17.393	134	9503	0.50	PPBV	99
105)	HEXACHLOROETHANE	17.573	117	10657	0.46	PPBV	98
106)	HEXACHLOROBUTADIENE	18.630	225	13635	0.48	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.322	180	13109	0.36	PPBV	98
108)	NAPHTHALENE	18.367	128	25591	0.32	PPBV	100
110)	TVHC as equiv Pentane	2.271	TIC	31378m	0.58	PPBV	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11237.D
Acq On : 28 Dec 2024 11:51 am
Operator : benk
Sample : ic405-0.50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:20:53 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:06:59 2024
Response via : Initial Calibration

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

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

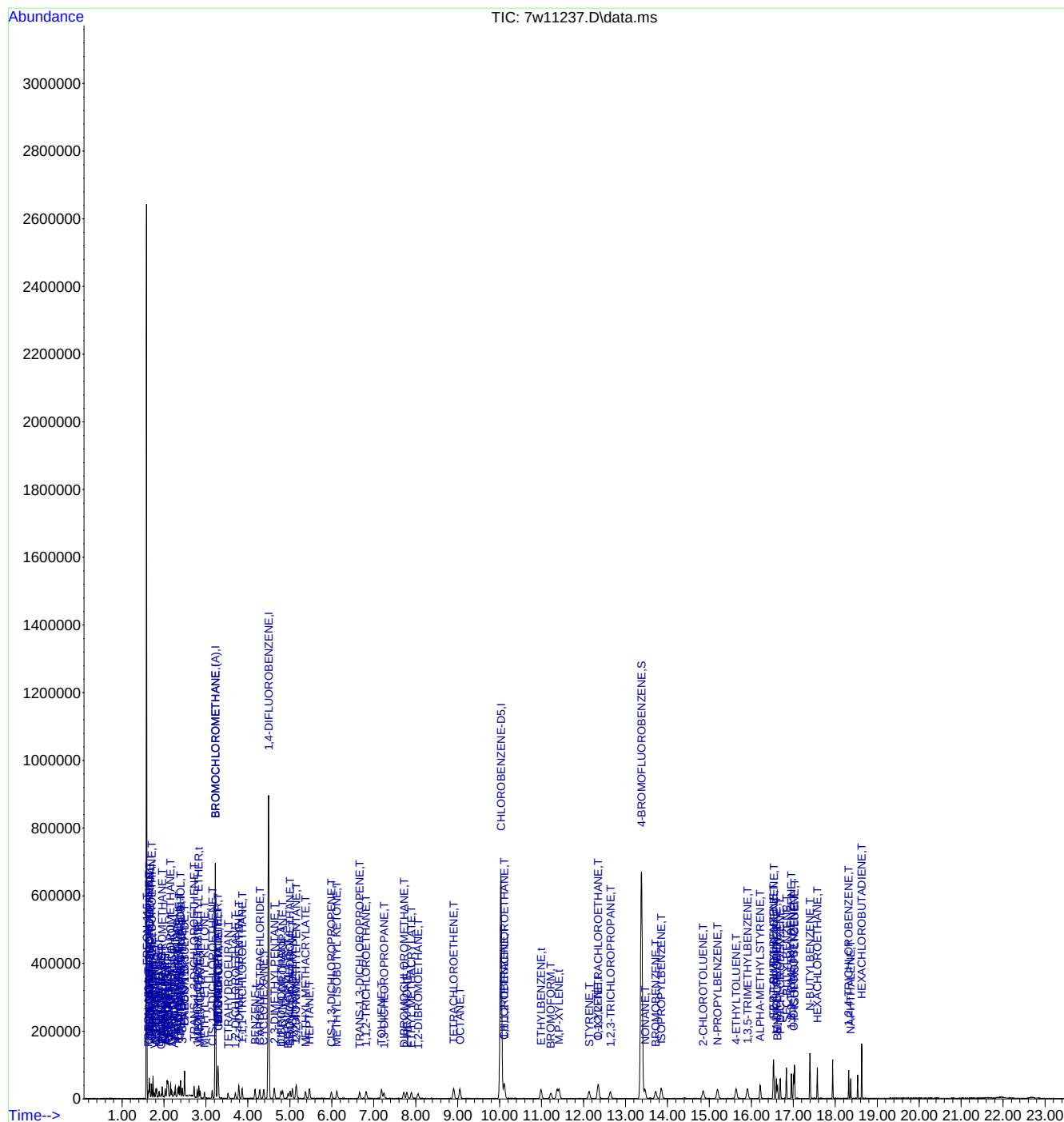
7.7.28

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11237.D
Acq On : 28 Dec 2024 11:51 am
Operator : benk
Sample : ic405-0.50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:20:53 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:06:59 2024
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number: V7W405-IC405

Method: TO-15

Lab FileID: 7W11237.D

Analyst approved: 12/30/24 00:11 Kanya Veerawat

Injection Time: 12/28/24 11:51

Supervisor approved: 12/30/24 00:15 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason

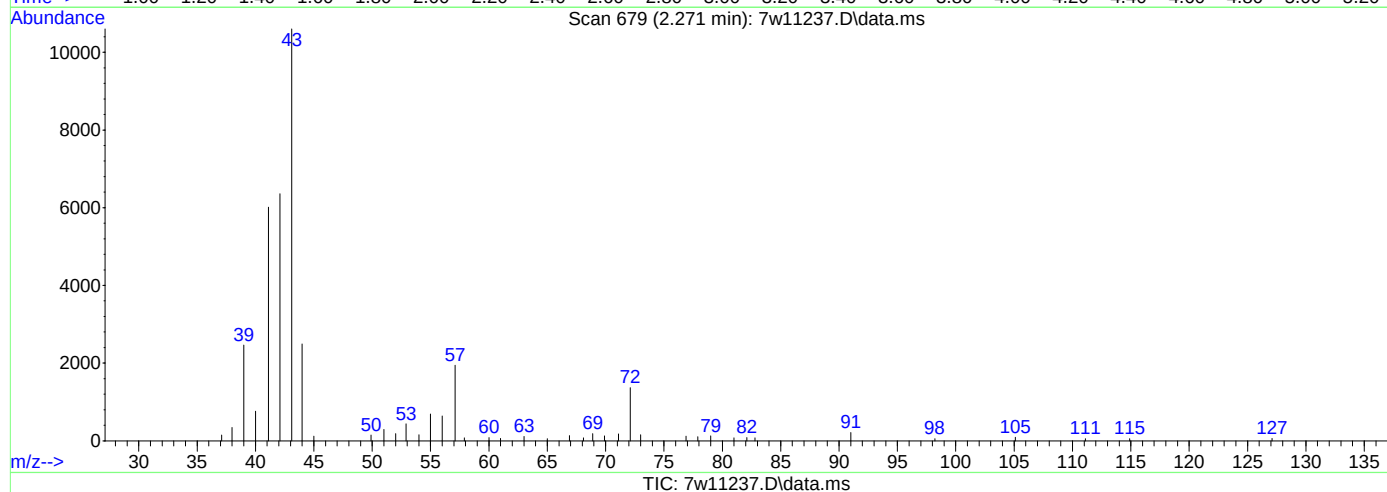
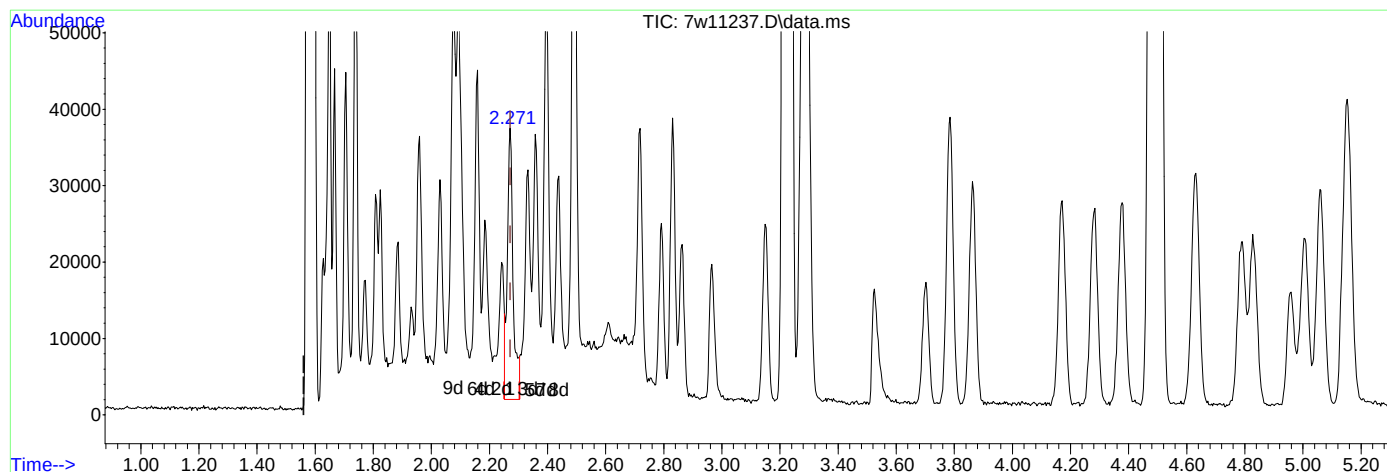
Ethanol	64-17-5		1.96	Poor instrument integration
TVHC As Equiv Pentane			2.27	Poor instrument integration
Methylene chloride	75-09-2		2.40	Poor instrument integration

7.7.28.1
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11237.D
Acq On : 28 Dec 2024 11:51 am
Operator : benk
Sample : ic405-0.50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:09:53 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:06:59 2024
Response via : Initial Calibration



(110) TVHC as equiv Pentane

2.271min (-0.000) 0.90PPBV

response 48575

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

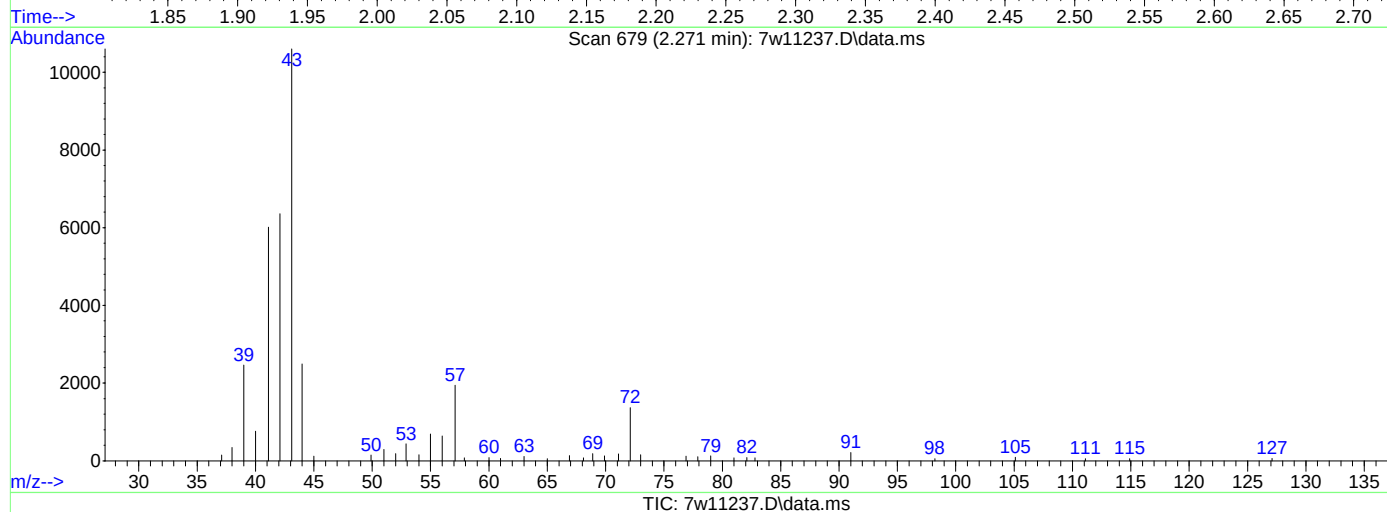
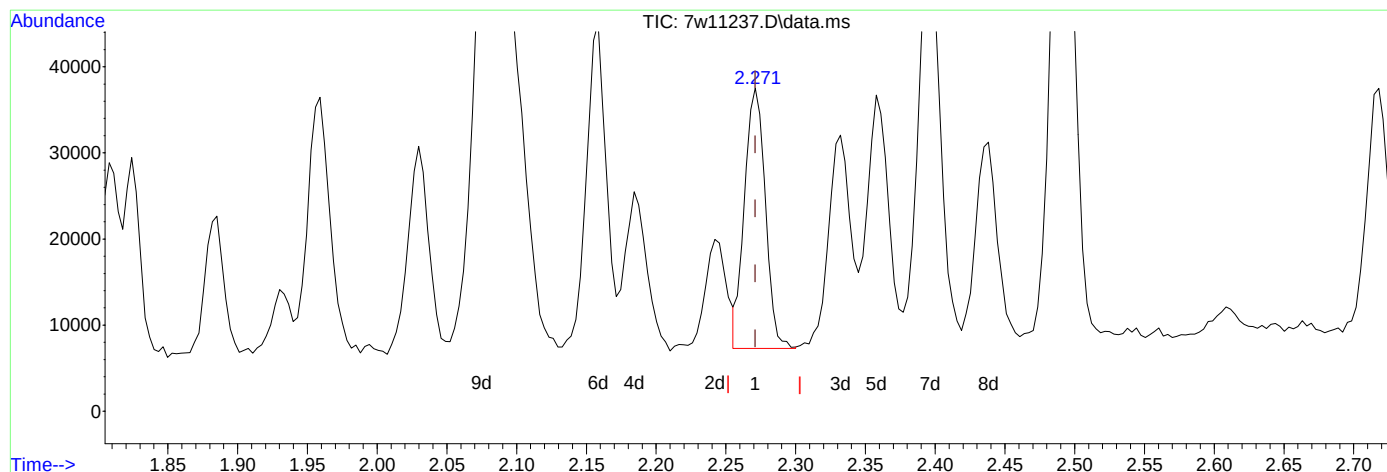
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11237.D
Acq On : 28 Dec 2024 11:51 am
Operator : benk
Sample : ic405-0.50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:09:53 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:06:59 2024
Response via : Initial Calibration



(110) TVHC as equiv Pentane

2.271min (-0.000) 0.58PPBV m

response 31378

Signal	Exp%	Act%

TIC	100	100

0.00	0.00	0.00

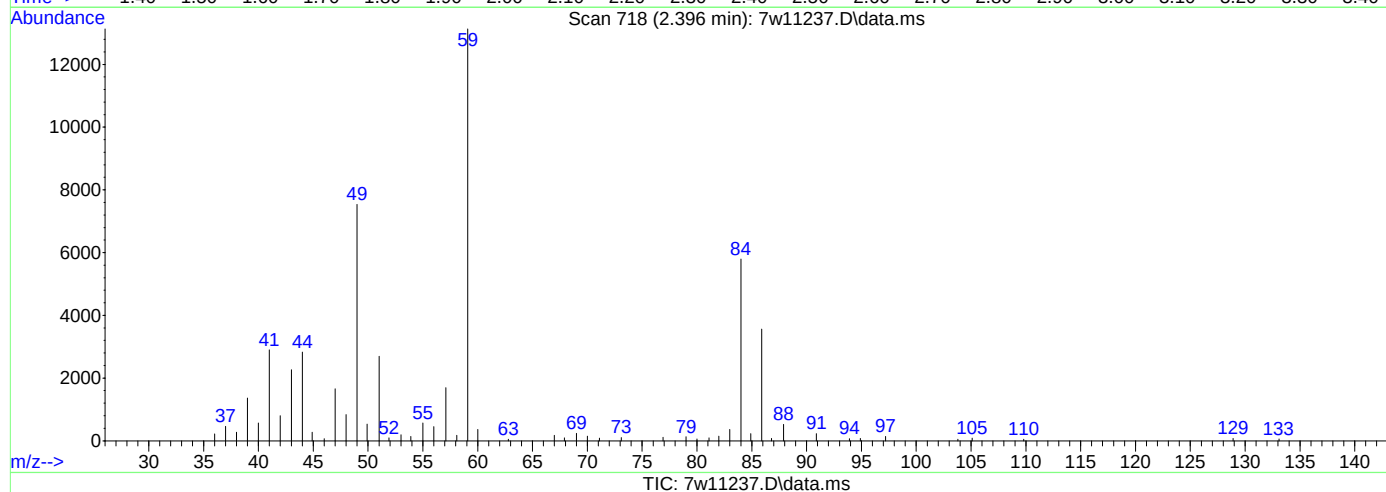
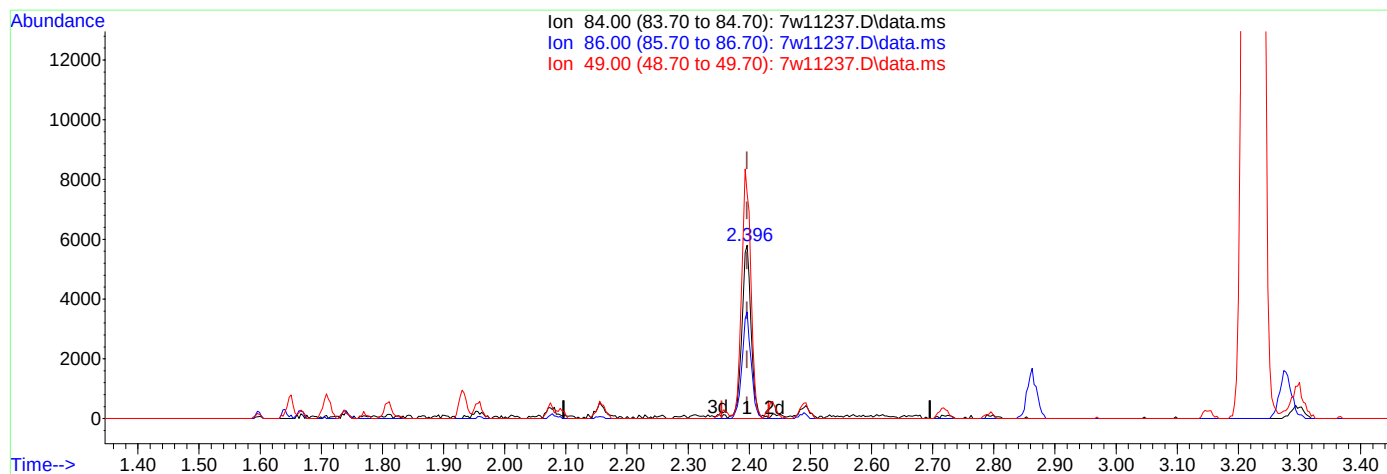
0.00	0.00	0.00

0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11237.D
Acq On : 28 Dec 2024 11:51 am
Operator : benk
Sample : ic405-0.50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:09:53 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:06:59 2024
Response via : Initial Calibration



(31) METHYLENE CHLORIDE (T)

2.396min (+0.000) 0.67PPBV

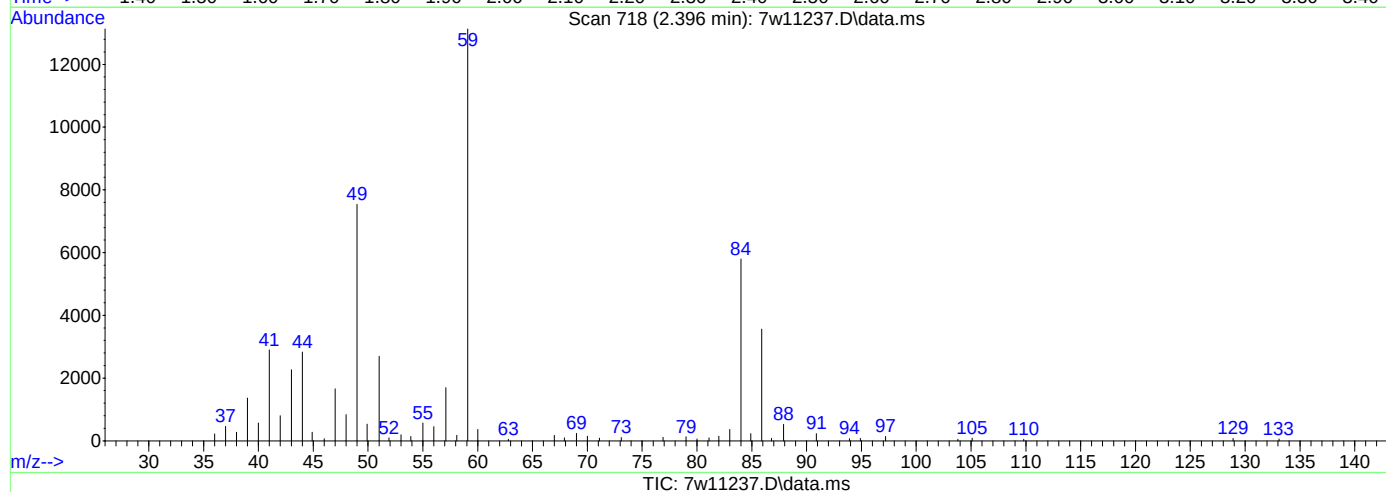
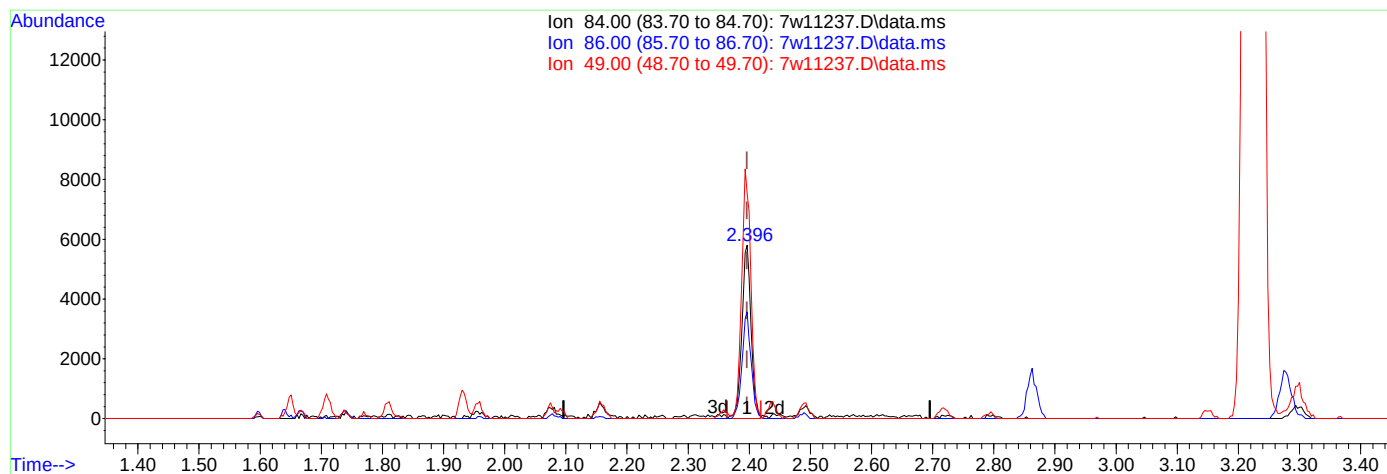
response 6163

Ion	Exp%	Act%
84.00	100	100
86.00	65.70	59.99
49.00	148.40	145.94
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11237.D
Acq On : 28 Dec 2024 11:51 am
Operator : benk
Sample : ic405-0.50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:09:53 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:06:59 2024
Response via : Initial Calibration



(31) METHYLENE CHLORIDE (T)

2.396min (+0.000) 0.66PPBV m

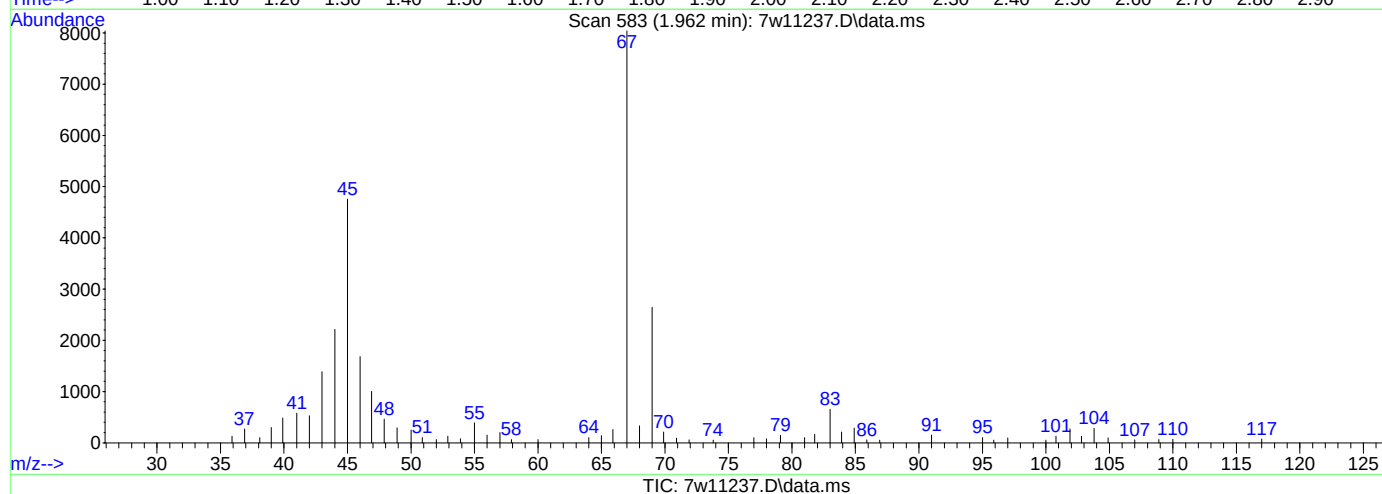
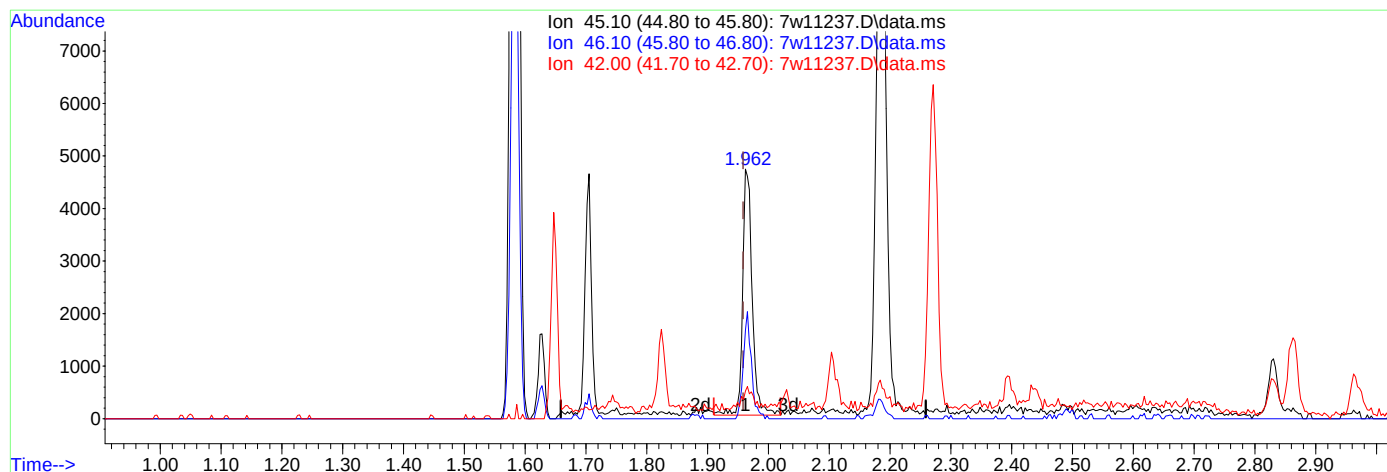
response 6063

Ion	Exp%	Act%
84.00	100	100
86.00	65.70	60.98
49.00	148.40	148.34
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11237.D
Acq On : 28 Dec 2024 11:51 am
Operator : benk
Sample : ic405-0.50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:09:53 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:06:59 2024
Response via : Initial Calibration



(28) ETHANOL (T)

1.962min (+0.003) 0.84PPBV

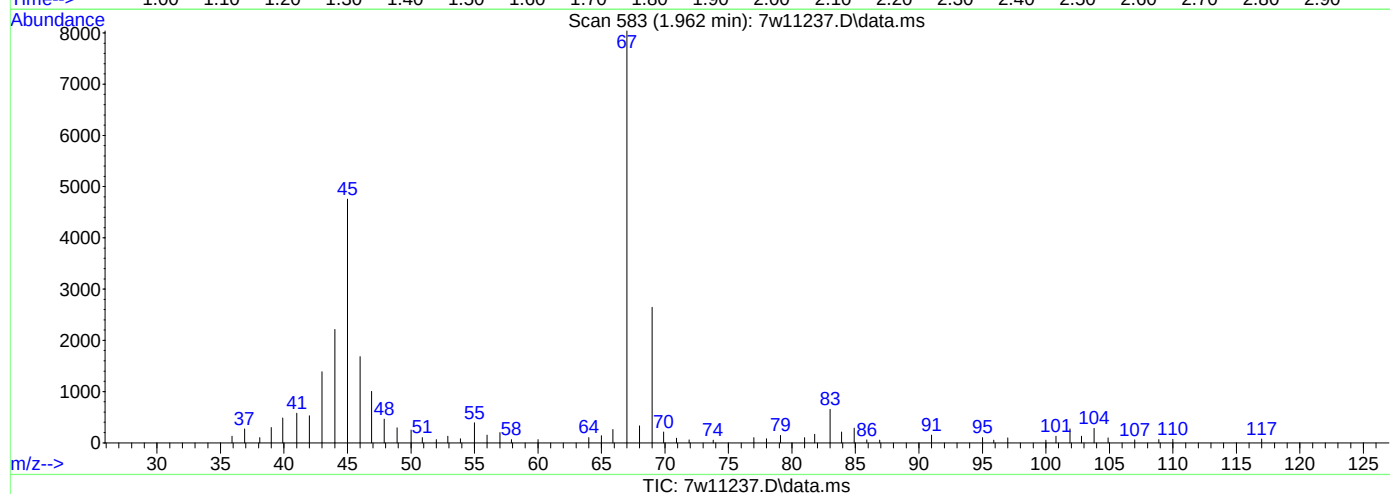
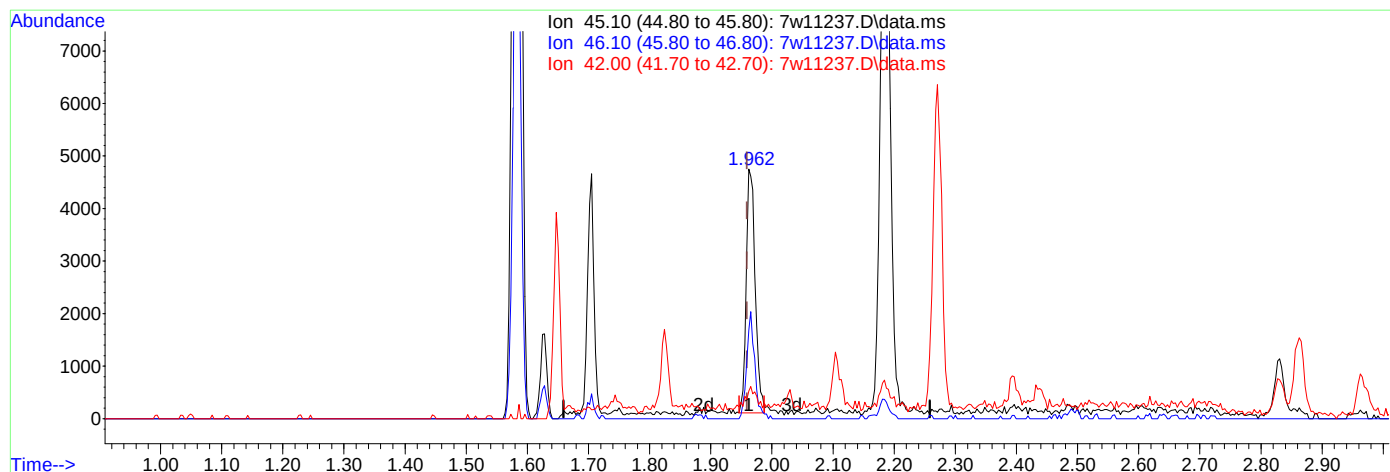
response 5104

Ion	Exp%	Act%
45.10	100	100
46.10	40.80	36.68
42.00	9.00	13.09#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 7w11237.D
Acq On : 28 Dec 2024 11:51 am
Operator : benk
Sample : ic405-0.50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:09:53 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:06:59 2024
Response via : Initial Calibration



(28) ETHANOL (T)

1.962min (+0.003) 0.78PPBV m

response 4727

Ion	Exp%	Act%
45.10	100	100
46.10	40.80	39.60
42.00	9.00	14.13#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11238.D
Acq On : 28 Dec 2024 12:34 pm
Operator : benk
Sample : ic405-5
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:06:24 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:02:57 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	131992	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.496	114	667855	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.036	117	626654	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	131920	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.383	95	462248	10.08	PPBV	0.00
Target Compounds						
						Qvalue
2) FREON 115	1.599	119	10064	0.92	PPBV	94
3) FREON 152A	1.628	65	33700	5.21	PPBV	100
4) CHLORODIFLUOROMETHANE	1.641	67	15976	5.06	PPBV	99
5) CHLOROTRIFLUOROETHENE	1.650	116	80059	5.13	PPBV	98
6) DICHLORODIFLUOROMETHANE	1.670	85	173239	5.25	PPBV	99
7) PROPYLENE	1.650	41	41238	5.25	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	1.705	65	127875	5.29	PPBV	98
9) FREON 114	1.740	85	144861	5.50	PPBV	99
10) CHLOROMETHANE	1.711	52	15800	5.06	PPBV	96
11) VINYL CHLORIDE	1.773	62	57502	5.10	PPBV	99
12) 1,3-BUTADIENE	1.811	54	43964	5.19	PPBV	97
13) N-BUTANE	1.827	43	81043	5.16	PPBV	99
14) BROMOMETHANE	1.885	94	50054	5.27	PPBV	100
15) CHLOROETHANE	1.933	64	29393	5.09	PPBV	98
16) DICHLOROFLUOROMETHANE	1.959	67	120507	5.21	PPBV	99
17) ACETONITRILE	2.030	41	47324	4.94	PPBV	100
18) ACROLEIN	2.065	56	25829	5.10	PPBV	96
19) FREON 123	2.078	83	127410	5.25	PPBV	99
20) FREON 123A	2.094	117	83554	5.51	PPBV	100
21) TRICHLOROFLUOROMETHANE	2.162	101	156031	5.30	PPBV	99
22) ISOPROPYL ALCOHOL	2.191	45	120912	5.38	PPBV	98
23) ACETONE	2.107	58	31346	5.48	PPBV	99
24) PENTANE	2.274	42	59564	5.29	PPBV	99
25) IODOMETHANE	2.335	142	150640	5.59	PPBV	99
26) 1,1-DICHLOROETHYLENE	2.364	96	56281	5.40	PPBV	97
27) CARBON DISULFIDE	2.496	76	148579	5.14	PPBV	97
28) ETHANOL	1.969	45	36620	6.22	PPBV	99
29) BROMOETHENE	2.036	106	54180	5.33	PPBV	99
30) ACRYLONITRILE	2.245	52	43642	5.65	PPBV	98
31) METHYLENE CHLORIDE	2.400	84	49865	5.35	PPBV	99
32) 3-CHLOROPROPENE	2.441	76	27594	5.21	PPBV	97
33) FREON 113	2.496	151	94391	5.44	PPBV	99
34) TRANS-1,2-DICHLOROETHENE	2.721	96	59643	5.32	PPBV	95
35) TERTIARY BUTYL ALCOHOL	2.396	59	139322	5.10	PPBV	99
36) METHYL TERTIARY BUTYL ...	2.830	73	179162	5.34	PPBV	97
37) TETRAHYDROFURAN	3.518	72	29434	5.26	PPBV	97
38) HEXANE	3.281	57	107163	5.24	PPBV	99
39) VINYL ACETATE	2.866	86	15656	4.82	PPBV	94
40) 1,1-DICHLOROETHANE	2.795	63	112446	5.24	PPBV	99
41) METHYL ETHYL KETONE	2.962	72	31098	5.28	PPBV	99
42) CIS-1,2-DICHLOROETHENE	3.152	96	64258	5.22	PPBV	100
43) DIISOPROPYL ETHER	3.284	59	31191	5.39	PPBV	97
44) ETHYL ACETATE	3.290	61	22898	5.46	PPBV	96
45) METHYL ACRYLATE	3.274	55	129647	5.28	PPBV #	100
46) CHLOROFORM	3.300	83	128139	5.33	PPBV	100
47) 2,4-DIMETHYLPENTANE	3.792	57	123380	5.22	PPBV	100
48) 1,1,1-TRICHLOROETHANE	3.866	97	138013	5.27	PPBV	99
49) CARBON TETRACHLORIDE	4.287	117	143015	5.07	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11238.D
Acq On : 28 Dec 2024 12:34 pm
Operator : benk
Sample : ic405-5
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:06:24 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:02:57 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.705	62	97467	5.27	PPBV	100
51)	BENZENE	4.174	78	184175	5.34	PPBV	100
53)	CYCLOHEXANE	4.383	84	81438	5.13	PPBV	98
54)	2,3-DIMETHYLPENTANE	4.634	71	42493	5.21	PPBV	99
55)	TRICHLOROETHENE	5.062	95	88289	5.08	PPBV	98
56)	1,2-DICHLOROPROPANE	4.834	63	73869	5.04	PPBV	99
57)	DIBROMOMETHANE	4.792	174	75119	4.95	PPBV	99
58)	ETHYL ACRYLATE	4.956	55	163994	5.11	PPBV	99
59)	BROMODICHLOROMETHANE	5.010	83	141102	4.96	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	5.158	57	343171	5.32	PPBV	99
61)	1,4-DIOXANE	5.116	88	52796	5.80	PPBV #	63
62)	HEPTANE	5.470	43	118231	5.24	PPBV	100
63)	METHYL METHACRYLATE	5.370	69	74099	5.29	PPBV	99
64)	METHYL ISOBUTYL KETONE	6.116	58	72901	5.68	PPBV	99
65)	CIS-1,3-DICHLOROPROPENE	5.991	75	121502	5.04	PPBV	99
66)	TOLUENE	7.190	91	236256	5.07	PPBV	100
67)	1,3-DICHLOROPROPANE	7.248	76	116018	5.06	PPBV	99
68)	TRANS-1,3-DICHLOROPROPENE	6.666	75	106931	4.69	PPBV	99
69)	1,1,2-TRICHLOROETHANE	6.821	83	68331	5.17	PPBV	99
70)	2-HEXANONE	7.801	58	133890	7.43	PPBV	99
71)	ETHYL METHACRYLATE	7.898	69	127278	5.21	PPBV	95
72)	TETRACHLOROETHENE	8.911	164	96143	5.35	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.721	129	138711	4.71	PPBV	100
74)	1,2-DIBROMOETHANE	8.058	107	131144	5.20	PPBV	100
75)	OCTANE	9.062	43	163300	5.13	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	10.120	131	106207	5.07	PPBV	99
78)	CHLOROBENZENE	10.110	112	195164	5.17	PPBV	99
79)	ETHYLBENZENE	10.991	91	318088	5.28	PPBV	100
80)	M,P-XYLENE	11.412	91	497734	10.31	PPBV	98
81)	O-XYLENE	12.348	91	254047	5.25	PPBV	99
82)	STYRENE	12.136	104	193679	5.16	PPBV	99
83)	NONANE	13.470	43	175616	5.23	PPBV	99
84)	BROMOFORM	11.226	173	124504	4.75	PPBV	100
85)	1,1,2,2-TETRACHLOROETHANE	12.361	83	175404	5.22	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.644	75	139660	5.10	PPBV	100
88)	ISOPROPYLBENZENE	13.856	120	98143	5.06	PPBV	97
89)	BROMOBENZENE	13.724	77	176709	4.96	PPBV	99
90)	2-CHLOROTOLUENE	14.856	126	88415	4.88	PPBV	99
91)	N-PROPYLBENZENE	15.193	120	103410	5.07	PPBV	100
92)	4-ETHYLTOLUENE	15.640	105	367789	5.15	PPBV	99
93)	1,3,5-TRIMETHYLBENZENE	15.910	105	310860	5.20	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.212	118	154089	4.85	PPBV	99
95)	TERT-BUTYLBENZENE	16.528	134	76413	5.38	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.534	105	317907	5.29	PPBV	100
97)	BENZYL CHLORIDE	16.627	91	263588	4.58	PPBV	100
98)	M-DICHLOROBENZENE	16.598	146	201910	4.83	PPBV	100
99)	P-DICHLOROBENZENE	16.692	146	204152	5.04	PPBV	99
100)	O-DICHLOROBENZENE	17.010	146	192317	4.98	PPBV	99
101)	SEC-BUTYLBENZENE	16.839	134	95434	5.29	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	16.955	105	305447	5.07	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.032	134	104354	5.27	PPBV	100
104)	N-BUTYLBENZENE	17.396	134	101938	5.14	PPBV	99
105)	HEXACHLOROETHANE	17.576	117	121825	4.99	PPBV	99
106)	HEXACHLOROBUTADIENE	18.634	225	147583	5.03	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.322	180	175966	4.63	PPBV	100
108)	NAPHTHALENE	18.370	128	372235	4.46	PPBV	100
110)	VHC as equiv Pentane	2.274	TIC	296961	5.41	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11238.D
Acq On : 28 Dec 2024 12:34 pm
Operator : benk
Sample : ic405-5
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:06:24 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:02:57 2024
Response via : Initial Calibration

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

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

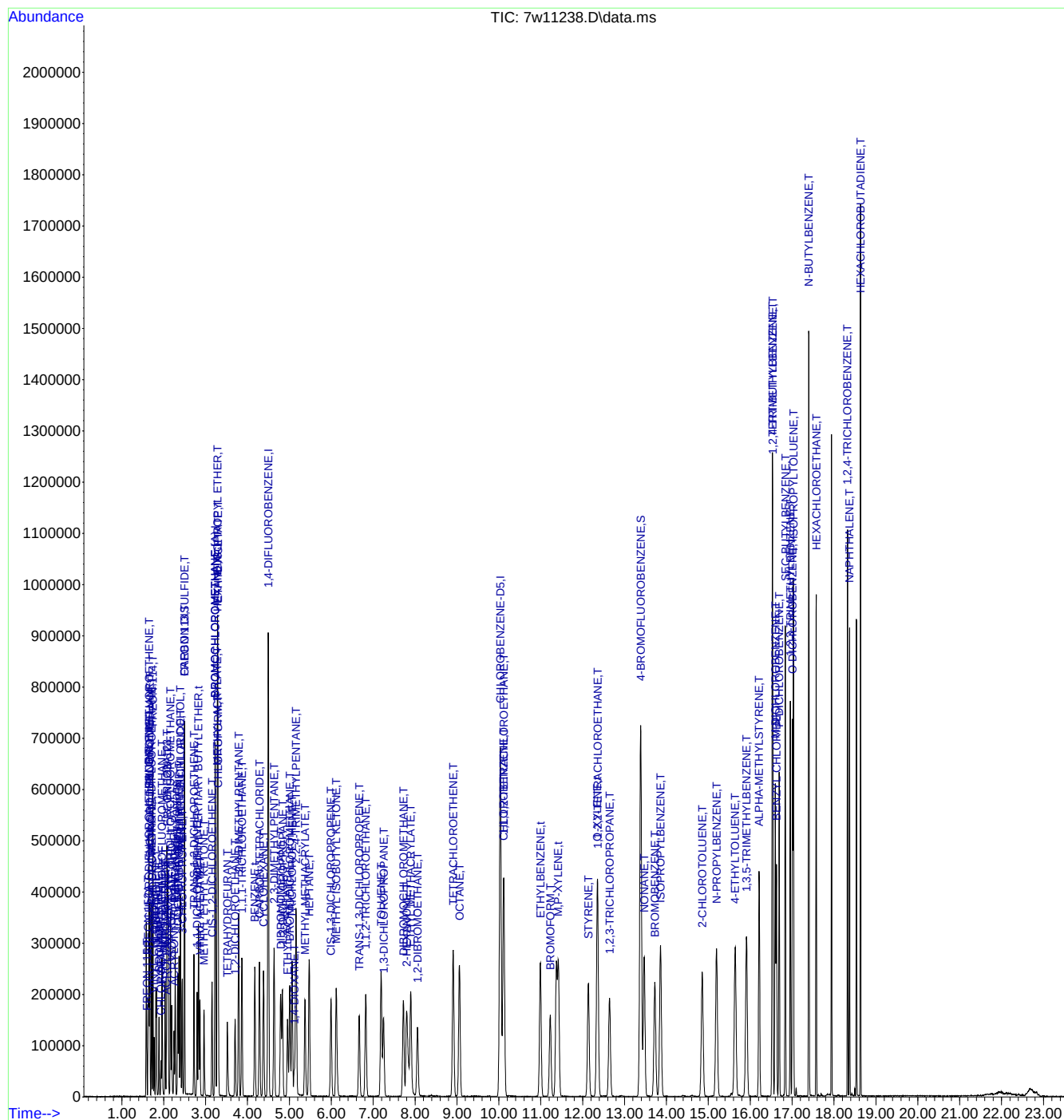
7.7.29

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11238.D
Acq On : 28 Dec 2024 12:34 pm
Operator : benk
Sample : ic405-5
Misc : MS74014,v7w405,,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 29 05:06:24 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:02:57 2024
Response via : Initial Calibration



7.7.29



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11240.D
Acq On : 28 Dec 2024 1:47 pm
Operator : benk
Sample : icc405-10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 04:50:37 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 22 00:53:20 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.226	128	131378	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.493	114	659033	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.033	117	616113	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.226	128	131378	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.383	95	447162	10.73	PPBV	0.00
Target Compounds						
					Qvalue	
2) FREON 115	1.596	119	159197	74.09	PPBV	90
3) FREON 152A	1.625	65	70619	11.74	PPBV	87
4) CHLORODIFLUOROMETHANE	1.638	67	34075	14.82	PPBV	97
5) CHLOROTRIFLUOROETHENE	1.651	116	169558	10.01	PPBV #	55
6) DICHLORODIFLUOROMETHANE	1.663	85	361796	7.33	PPBV	97
7) PROPYLENE	1.647	41	87865	8.50	PPBV	95
8) 1-CHLORO-1,1-DIFLUOROE...	1.702	65	266833	7.04	PPBV	97
9) FREON 114	1.737	85	300840	8.01	PPBV	92
10) CHLOROMETHANE	1.708	52	33563	7.85	PPBV	94
11) VINYL CHLORIDE	1.769	62	119055	8.61	PPBV	97
12) 1,3-BUTADIENE	1.808	54	94033	8.95	PPBV #	80
13) N-BUTANE	1.824	43	174592	7.87	PPBV	97
14) BROMOMETHANE	1.882	94	103381	7.11	PPBV	99
15) CHLOROETHANE	1.930	64	61993	8.71	PPBV	95
16) DICHLOROFLUOROMETHANE	1.956	67	253114	7.73	PPBV	97
17) ACETONITRILE	2.023	41	99368	6.46	PPBV	98
18) ACROLEIN	2.062	56	53905	7.69	PPBV	100
19) FREON 123	2.075	83	265342	7.41	PPBV	97
20) FREON 123A	2.091	117	174347	7.60	PPBV	95
21) TRICHLOROFLUOROMETHANE	2.155	101	327408	6.55	PPBV	100
22) ISOPROPYL ALCOHOL	2.175	45	247379	7.31	PPBV	96
23) ACETONE	2.101	58	61121	7.39	PPBV	73
24) PENTANE	2.271	42	126473	7.40	PPBV	95
25) IODOMETHANE	2.332	142	309671	7.54	PPBV	85
26) 1,1-DICHLOROETHYLENE	2.358	96	115617	7.71	PPBV	91
27) CARBON DISULFIDE	2.493	76	317177	9.43	PPBV #	89
28) ETHANOL	1.959	45	62292	5.92	PPBV	99
29) BROMOETHENE	2.030	106	112928	7.39	PPBV	96
30) ACRYLONITRILE	2.239	52	88292	8.10	PPBV	99
31) METHYLENE CHLORIDE	2.396	84	101654	7.33	PPBV	99
32) 3-CHLOROPROPENE	2.435	76	57302	8.22	PPBV	79
33) FREON 113	2.490	151	193605	6.66	PPBV	91
34) TRANS-1,2-DICHLOROETHENE	2.718	96	121649	7.89	PPBV	82
35) TERTIARY BUTYL ALCOHOL	2.374	59	282192	7.69	PPBV	93
36) METHYL TERTIARY BUTYL ...	2.824	73	375375	11.26	PPBV	96
37) TETRAHYDROFURAN	3.506	72	60165	8.30	PPBV	99
38) HEXANE	3.274	57	225309	9.57	PPBV	99
39) VINYL ACETATE	2.859	86	34415	8.74	PPBV	87
40) 1,1-DICHLOROETHANE	2.792	63	238292	11.30	PPBV	98
41) METHYL ETHYL KETONE	2.956	72	65627	8.91	PPBV	93
42) CIS-1,2-DICHLOROETHENE	3.149	96	136752	8.67	PPBV #	78
43) DIISOPROPYL ETHER	3.281	59	65052	9.34	PPBV	86
44) ETHYL ACETATE	3.284	61	47399	8.74	PPBV	89
45) METHYL ACRYLATE	3.271	55	274676	9.87	PPBV #	98
46) CHLOROFORM	3.297	83	272447	9.74	PPBV	98
47) 2,4-DIMETHYLPENTANE	3.785	57	264908	10.43	PPBV	97
48) 1,1,1-TRICHLOROETHANE	3.863	97	291408	11.12	PPBV #	100
49) CARBON TETRACHLORIDE	4.281	117	312176	12.66	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11240.D
Acq On : 28 Dec 2024 1:47 pm
Operator : benk
Sample : icc405-10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 04:50:37 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 22 00:53:20 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.702	62	207916	14.06	PPBV #	96
51)	BENZENE	4.171	78	391264	8.99	PPBV	89
53)	CYCLOHEXANE	4.377	84	176001	9.71	PPBV	86
54)	2,3-DIMETHYLPENTANE	4.631	71	90898	9.87	PPBV	87
55)	TRICHLOROETHENE	5.062	95	186075	9.84	PPBV	89
56)	1,2-DICHLOROPROPANE	4.827	63	156355	10.04	PPBV	92
57)	DIBROMOMETHANE	4.789	174	163006	10.89	PPBV	88
58)	ETHYL ACRYLATE	4.949	55	347446	10.77	PPBV	97
59)	BROMODICHLOROMETHANE	5.007	83	305589	11.32	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	5.155	57	711259	10.97	PPBV	97
61)	1,4-DIOXANE	5.078	88	98611	8.03	PPBV	86
62)	HEPTANE	5.467	43	252921	10.32	PPBV	98
63)	METHYL METHACRYLATE	5.367	69	155284	10.18	PPBV	95
64)	METHYL ISOBUTYL KETONE	6.094	58	141262	9.65	PPBV	92
65)	CIS-1,3-DICHLOROPROPENE	5.988	75	260974	11.14	PPBV	92
66)	TOLUENE	7.190	91	501403	9.17	PPBV	98
67)	1,3-DICHLOROPROPANE	7.245	76	248146	10.14	PPBV	99
68)	TRANS-1,3-DICHLOROPROPENE	6.663	75	233274	11.52	PPBV	96
69)	1,1,2-TRICHLOROETHANE	6.821	83	143467	9.13	PPBV	96
70)	2-HEXANONE	7.756	58	195827	9.35	PPBV	95
71)	ETHYL METHACRYLATE	7.888	69	260347	9.94	PPBV	98
72)	TETRACHLOROETHENE	8.907	164	198985	11.49	PPBV	96
73)	DIBROMOCHLOROMETHANE	7.721	129	308021	12.06	PPBV	100
74)	1,2-DIBROMOETHANE	8.055	107	281582	10.52	PPBV	99
75)	OCTANE	9.059	43	351937	10.13	PPBV	95
77)	1,1,1,2-TETRACHLOROETHANE	10.120	131	230902	11.97	PPBV	97
78)	CHLOROBENZENE	10.110	112	416067	9.97	PPBV	97
79)	ETHYLBENZENE	10.988	91	677850	9.63	PPBV	99
80)	M,P-XYLENE	11.419	91	1056677	19.39	PPBV	96
81)	O-XYLENE	12.345	91	537862	9.76	PPBV	99
82)	STYRENE	12.132	104	417847	9.89	PPBV	94
83)	NONANE	13.470	43	371464	9.82	PPBV	89
84)	BROMOFORM	11.226	173	280283	12.71	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.361	83	374106	8.64	PPBV #	97
86)	1,2,3-TRICHLOROPROPANE	12.640	75	296227	10.40	PPBV	100
88)	ISOPROPYLBENZENE	13.859	120	209134	9.89	PPBV	98
89)	BROMOBENZENE	13.721	77	377278	10.25	PPBV	99
90)	2-CHLOROTOLUENE	14.849	126	189709	10.34	PPBV	100
91)	N-PROPYLBENZENE	15.197	120	218536	10.09	PPBV	98
92)	4-ETHYLTOLUENE	15.640	105	780911	9.78	PPBV	96
93)	1,3,5-TRIMETHYLBENZENE	15.910	105	651438	10.03	PPBV	97
94)	ALPHA-METHYLSTYRENE	16.213	118	327935	9.46	PPBV	98
95)	TERT-BUTYLBENZENE	16.528	134	157884	10.20	PPBV	88
96)	1,2,4-TRIMETHYLBENZENE	16.534	105	662762	9.43	PPBV	94
97)	BENZYL CHLORIDE	16.627	91	587334	9.57	PPBV #	93
98)	M-DICHLOROBENZENE	16.598	146	434222	9.56	PPBV #	100
99)	P-DICHLOROBENZENE	16.692	146	438983	9.89	PPBV	98
100)	O-DICHLOROBENZENE	17.007	146	411459	9.52	PPBV	99
101)	SEC-BUTYLBENZENE	16.836	134	198439	9.99	PPBV #	1
102)	1,2,3-TRIMETHYLBENZENE	16.955	105	642624	9.11	PPBV	97
103)	P-ISOPROPYLTOLUENE	17.029	134	216933	9.81	PPBV #	100
104)	N-BUTYLBENZENE	17.393	134	214010	9.26	PPBV #	1
105)	HEXACHLOROETHANE	17.573	117	268359	10.15	PPBV	95
106)	HEXACHLOROBUTADIENE	18.631	225	315642	11.07	PPBV #	1
107)	1,2,4-TRICHLOROBENZENE	18.319	180	394080	10.00	PPBV	99
108)	NAPHTHALENE	18.367	128	863409	10.22	PPBV	100
110)	VHC as equiv Pentane	2.271	TIC	604399	7.36	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11240.D
Acq On : 28 Dec 2024 1:47 pm
Operator : benk
Sample : icc405-10
Misc : MS74014,V7W405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 04:50:37 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 22 00:53:20 2024
Response via : Initial Calibration

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

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

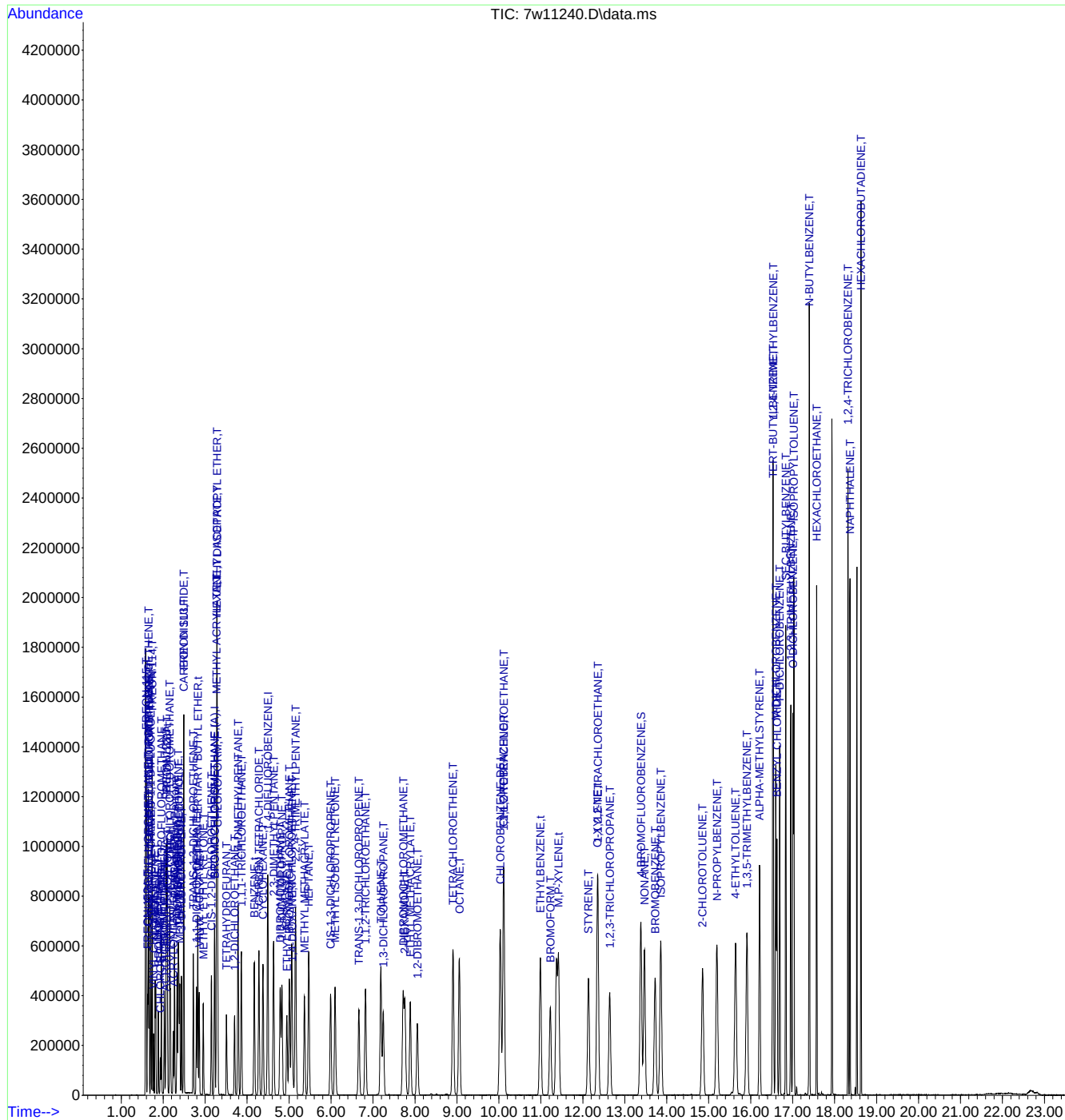
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(QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11240.D
Acq On : 28 Dec 2024 1:47 pm
Operator : benk
Sample : icc405-10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 04:50:37 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 22 00:53:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11241.D
Acq On : 28 Dec 2024 2:25 pm
Operator : benk
Sample : ic405-20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 04:59:47 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 04:57:55 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.226	128	126854	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.493	114	638427	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.036	117	603108	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.226	128	126854	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.386	95	441368	10.06	PPBV	0.00
Target Compounds						
						Qvalue
2) FREON 115	1.596	119	306896	26.40	PPBV	99
3) FREON 152A	1.625	65	138617	22.37	PPBV	100
4) CHLORODIFLUOROMETHANE	1.638	67	66594	22.10	PPBV	99
5) CHLOROTRIFLUOROETHENE	1.650	116	326020	21.56	PPBV	99
6) DICHLORODIFLUOROMETHANE	1.667	85	699867	22.02	PPBV	100
7) PROPYLENE	1.647	41	169555	22.33	PPBV	100
8) 1-CHLORO-1,1-DIFLUOROE...	1.702	65	512499	21.75	PPBV	100
9) FREON 114	1.737	85	580240	22.76	PPBV	100
10) CHLOROMETHANE	1.708	52	64518	21.24	PPBV	99
11) VINYL CHLORIDE	1.769	62	232906	21.63	PPBV	99
12) 1,3-BUTADIENE	1.808	54	182551	22.51	PPBV	99
13) N-BUTANE	1.824	43	338097	22.35	PPBV	100
14) BROMOMETHANE	1.882	94	198021	21.52	PPBV	100
15) CHLOROETHANE	1.930	64	118969	21.35	PPBV	99
16) DICHLOROFLUOROMETHANE	1.956	67	488646	21.83	PPBV	100
17) ACETONITRILE	2.023	41	192313	21.06	PPBV	99
18) ACROLEIN	2.062	56	106570	22.10	PPBV	99
19) FREON 123	2.075	83	511901	21.82	PPBV	100
20) FREON 123A	2.094	117	333208	22.49	PPBV	99
21) TRICHLOROFLUOROMETHANE	2.159	101	623390	21.54	PPBV	99
22) ISOPROPYL ALCOHOL	2.171	45	473419	21.61	PPBV	100
23) ACETONE	2.101	58	117725	21.30	PPBV	98
24) PENTANE	2.271	42	244309	22.30	PPBV	100
25) IODOMETHANE	2.332	142	591604	22.44	PPBV	100
26) 1,1-DICHLOROETHYLENE	2.361	96	221667	21.84	PPBV	100
27) CARBON DISULFIDE	2.493	76	613010	21.98	PPBV	99
28) ETHANOL	1.959	45	118748	20.62	PPBV	100
29) BROMOETHENE	2.033	106	214598	21.70	PPBV	99
30) ACRYLONITRILE	2.242	52	169494	22.65	PPBV	99
31) METHYLENE CHLORIDE	2.396	84	194495	21.35	PPBV	97
32) 3-CHLOROPROPENE	2.438	76	110765	21.67	PPBV	99
33) FREON 113	2.493	151	367709	21.49	PPBV	100
34) TRANS-1,2-DICHLOROETHENE	2.718	96	235716	21.81	PPBV	99
35) TERTIARY BUTYL ALCOHOL	2.371	59	539655	20.14	PPBV	99
36) METHYL TERTIARY BUTYL ...	2.824	73	723428	22.26	PPBV	100
37) TETRAHYDROFURAN	3.506	72	117493	21.83	PPBV	98
38) HEXANE	3.277	57	430909	21.67	PPBV	99
39) VINYL ACETATE	2.859	86	67826	22.25	PPBV	97
40) 1,1-DICHLOROETHANE	2.792	63	457937	22.05	PPBV	100
41) METHYL ETHYL KETONE	2.956	72	126630	22.17	PPBV	100
42) CIS-1,2-DICHLOROETHENE	3.149	96	263112	22.01	PPBV	99
43) DIISOPROPYL ETHER	3.281	59	125352	22.33	PPBV	99
44) ETHYL ACETATE	3.284	61	89942	21.78	PPBV	97
45) METHYL ACRYLATE	3.271	55	529034	22.22	PPBV #	100
46) CHLOROFORM	3.300	83	516462	21.80	PPBV	99
47) 2,4-DIMETHYLPENTANE	3.785	57	506373	22.17	PPBV	100
48) 1,1,1-TRICHLOROETHANE	3.863	97	564470	22.35	PPBV	100
49) CARBON TETRACHLORIDE	4.281	117	609663	22.69	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11241.D
Acq On : 28 Dec 2024 2:25 pm
Operator : benk
Sample : ic405-20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 04:59:47 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 04:57:55 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.702	62	402638	22.56	PPBV	99
51)	BENZENE	4.171	78	755006	22.64	PPBV	100
53)	CYCLOHEXANE	4.377	84	339869	22.43	PPBV	99
54)	2,3-DIMETHYLPENTANE	4.631	71	174649	22.38	PPBV	100
55)	TRICHLOROETHENE	5.062	95	359704	21.51	PPBV	100
56)	1,2-DICHLOROPROPANE	4.830	63	303407	21.63	PPBV	100
57)	DIBROMOMETHANE	4.789	174	312992	21.48	PPBV	100
58)	ETHYL ACRYLATE	4.946	55	676723	22.37	PPBV	100
59)	BROMODICHLOROMETHANE	5.007	83	587425	21.65	PPBV	100
60)	2,2,4-TRIMETHYLPENTANE	5.155	57	1375032	22.23	PPBV	100
61)	1,4-DIOXANE	5.072	88	186784	20.95	PPBV	98
62)	HEPTANE	5.470	43	488300	22.76	PPBV	100
63)	METHYL METHACRYLATE	5.367	69	299512	22.42	PPBV	99
64)	METHYL ISOBUTYL KETONE	6.094	58	271987	22.01	PPBV	99
65)	CIS-1,3-DICHLOROPROPENE	5.991	75	507797	22.32	PPBV	100
66)	TOLUENE	7.190	91	973750	22.00	PPBV	100
67)	1,3-DICHLOROPROPANE	7.248	76	478931	21.95	PPBV	99
68)	TRANS-1,3-DICHLOROPROPENE	6.666	75	458798	21.61	PPBV	99
69)	1,1,2-TRICHLOROETHANE	6.824	83	278027	22.03	PPBV	100
70)	2-HEXANONE	7.760	58	377518	21.81	PPBV	99
71)	ETHYL METHACRYLATE	7.891	69	506129	21.83	PPBV	100
72)	TETRACHLOROETHENE	8.911	164	383020	22.40	PPBV	99
73)	DIBROMOCHLOROMETHANE	7.721	129	613995	22.67	PPBV	100
74)	1,2-DIBROMOETHANE	8.062	107	545593	22.79	PPBV	99
75)	OCTANE	9.059	43	685319	22.86	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	10.126	131	451908	22.41	PPBV	100
78)	CHLOROBENZENE	10.113	112	814457	22.39	PPBV	100
79)	ETHYLBENZENE	10.991	91	1320164	22.74	PPBV	100
80)	M,P-XYLENE	11.422	91	2058784	44.15	PPBV	97
81)	O-XYLENE	12.351	91	1048912	22.42	PPBV	100
82)	STYRENE	12.136	104	820877	23.04	PPBV	100
83)	NONANE	13.476	43	726869	22.53	PPBV	100
84)	BROMOFORM	11.229	173	563890	23.16	PPBV	100
85)	1,1,2,2-TETRACHLOROETHANE	12.364	83	732603	22.70	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.644	75	576776	21.83	PPBV	100
88)	ISOPROPYLBENZENE	13.859	120	409277	21.93	PPBV	100
89)	BROMOBENZENE	13.727	77	739407	21.57	PPBV	99
90)	2-CHLOROTOLUENE	14.859	126	371222	21.39	PPBV	100
91)	N-PROPYLBENZENE	15.200	120	428493	21.98	PPBV	100
92)	4-ETHYLTOLUENE	15.643	105	1547675	23.00	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	15.917	105	1290766	22.94	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.216	118	655690	22.20	PPBV	100
95)	TERT-BUTYLBENZENE	16.531	134	310716	22.85	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.541	105	1317303	23.21	PPBV	100
97)	BENZYL CHLORIDE	16.631	91	1195390	22.98	PPBV	100
98)	M-DICHLOROBENZENE	16.602	146	866695	22.10	PPBV	100
99)	P-DICHLOROBENZENE	16.695	146	880704	23.27	PPBV	99
100)	O-DICHLOROBENZENE	17.010	146	820370	22.71	PPBV	100
101)	SEC-BUTYLBENZENE	16.840	134	391899	22.95	PPBV	99
102)	1,2,3-TRIMETHYLBENZENE	16.959	105	1280395	22.70	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.032	134	426177	22.64	PPBV	99
104)	N-BUTYLBENZENE	17.396	134	426836	23.04	PPBV	99
105)	HEXACHLOROETHANE	17.573	117	540620	23.91	PPBV	100
106)	HEXACHLOROBUTADIENE	18.634	225	657155	24.71	PPBV	100
107)	1,2,4-TRICHLOROBENZENE	18.322	180	830811	25.23	PPBV	100
108)	NAPHTHALENE	18.370	128	1764884	24.88	PPBV	100
110)	TVHC as equiv Pentane	2.271	TIC	1194978	22.35	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11241.D
Acq On : 28 Dec 2024 2:25 pm
Operator : benk
Sample : ic405-20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 04:59:47 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 04:57:55 2024
Response via : Initial Calibration

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

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

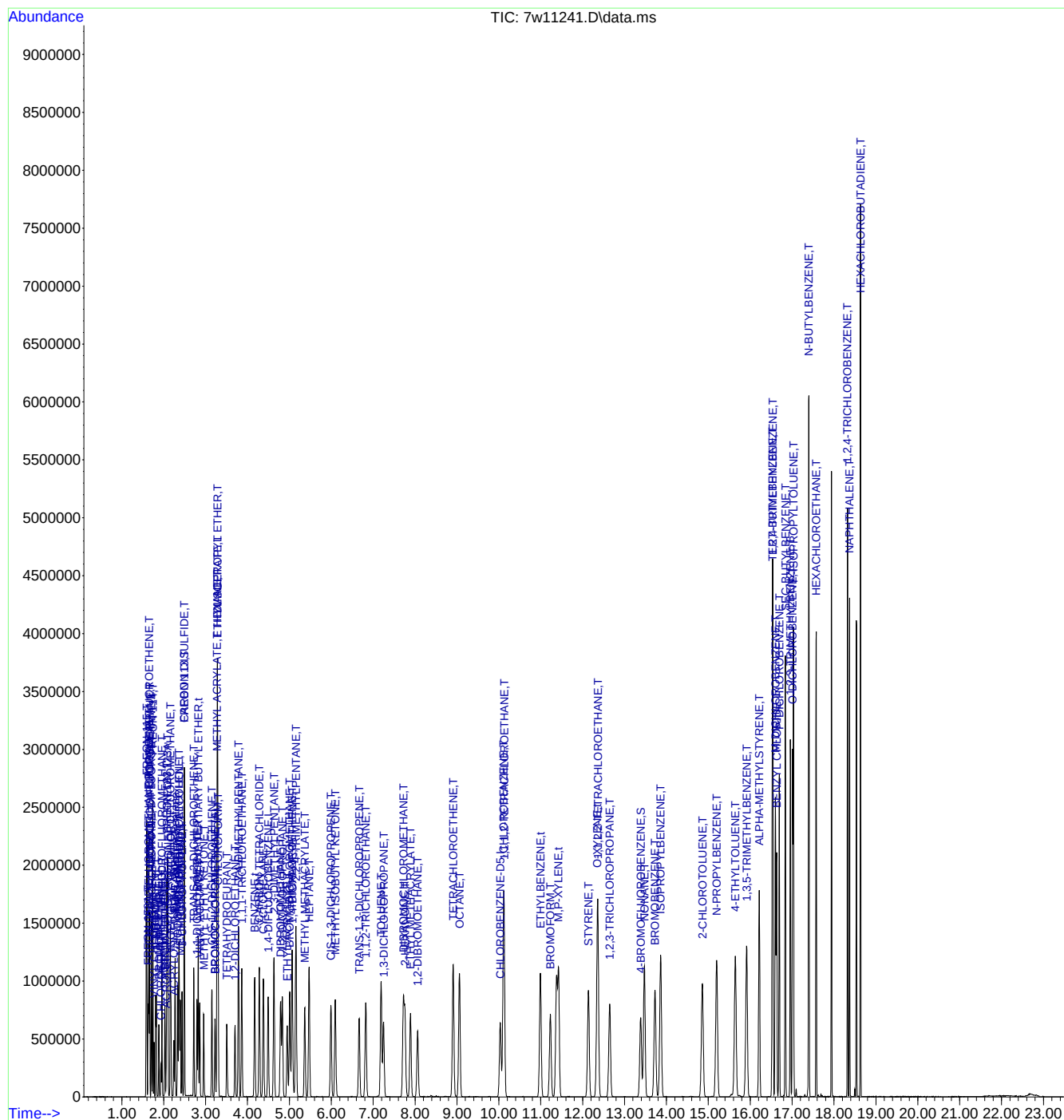
7.7.31

7

(QT Reviewed)

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Data Path : C:\msdchem\1\data\7w\
Data File : 7w11241.D
Acq On : 28 Dec 2024    2:25 pm
Operator : benk
Sample : ic405-20
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4      Sample Multiplier: 1
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Quant Time: Dec 29 04:59:47 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 04:57:55 2024
Response via : Initial Calibration



7.7.31

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11242.D
Acq On : 28 Dec 2024 3:08 pm
Operator : benk
Sample : ic405-40
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 05:01:19 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:00:22 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.226	128	128392	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.493	114	638040	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.036	117	608914	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.226	128	128392	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.386	95	448477	10.10	PPBV	0.00
Target Compounds						
						Qvalue
2) FREON 115	1.596	119	78301	6.17	PPBV	99
3) FREON 152A	1.628	65	271083	42.58	PPBV	100
4) CHLORODIFLUOROMETHANE	1.638	67	132367	42.80	PPBV	99
5) CHLOROTRIFLUOROETHENE	1.651	116	640501	41.48	PPBV	100
6) DICHLORODIFLUOROMETHANE	1.667	85	1369137	42.02	PPBV	99
7) PROPYLENE	1.647	41	334942	43.23	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	1.705	65	992525	41.26	PPBV	99
9) FREON 114	1.737	85	1128910	43.25	PPBV	100
10) CHLOROMETHANE	1.708	52	126447	40.84	PPBV	99
11) VINYL CHLORIDE	1.770	62	457248	41.26	PPBV	99
12) 1,3-BUTADIENE	1.808	54	359850	43.23	PPBV	98
13) N-BUTANE	1.824	43	664309	42.89	PPBV	100
14) BROMOMETHANE	1.882	94	388703	41.40	PPBV	99
15) CHLOROETHANE	1.930	64	234917	41.29	PPBV	98
16) DICHLOROFLUOROMETHANE	1.956	67	953303	41.67	PPBV	99
17) ACETONITRILE	2.024	41	382342	40.79	PPBV	99
18) ACROLEIN	2.062	56	210760	42.45	PPBV	98
19) FREON 123	2.075	83	1007587	42.03	PPBV	99
20) FREON 123A	2.094	117	645065	42.70	PPBV	99
21) TRICHLOROFLUOROMETHANE	2.159	101	1198641	40.71	PPBV	99
22) ISOPROPYL ALCOHOL	2.171	45	919602	41.21	PPBV	99
23) ACETONE	2.101	58	229086	40.49	PPBV	96
24) PENTANE	2.271	42	476107	42.62	PPBV	99
25) IODOMETHANE	2.332	142	1141436	42.49	PPBV	100
26) 1,1-DICHLOROETHYLENE	2.361	96	433522	41.91	PPBV	98
27) CARBON DISULFIDE	2.493	76	1199868	41.99	PPBV	98
28) ETHANOL	1.959	45	231131	39.51	PPBV	99
29) BROMOETHENE	2.033	106	418405	41.48	PPBV	99
30) ACRYLONITRILE	2.242	52	329828	43.13	PPBV	98
31) METHYLENE CHLORIDE	2.397	84	377713	40.74	PPBV	99
32) 3-CHLOROPROPENE	2.438	76	216809	41.46	PPBV	98
33) FREON 113	2.493	151	702415	40.38	PPBV	99
34) TRANS-1,2-DICHLOROETHENE	2.718	96	459126	41.44	PPBV	99
35) TERTIARY BUTYL ALCOHOL	2.371	59	1038619	38.07	PPBV	98
36) METHYL TERTIARY BUTYL ...	2.824	73	1408890	42.40	PPBV	99
37) TETRAHYDROFURAN	3.503	72	230020	41.68	PPBV	98
38) HEXANE	3.278	57	841035	41.48	PPBV	99
39) VINYL ACETATE	2.860	86	135381	42.88	PPBV	96
40) 1,1-DICHLOROETHANE	2.792	63	894939	42.15	PPBV	100
41) METHYL ETHYL KETONE	2.956	72	247507	42.44	PPBV	100
42) CIS-1,2-DICHLOROETHENE	3.152	96	508963	41.67	PPBV	98
43) DIISOPROPYL ETHER	3.281	59	242060	42.13	PPBV	100
44) ETHYL ACETATE	3.287	61	173891	41.49	PPBV	97
45) METHYL ACRYLATE	3.271	55	1030168	42.35	PPBV #	100
46) CHLOROFORM	3.300	83	994566	41.35	PPBV	99
47) 2,4-DIMETHYLPENTANE	3.786	57	995716	42.70	PPBV	100
48) 1,1,1-TRICHLOROETHANE	3.866	97	1104833	42.73	PPBV	99
49) CARBON TETRACHLORIDE	4.284	117	1201848	43.46	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11242.D
Acq On : 28 Dec 2024 3:08 pm
Operator : benk
Sample : ic405-40
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 05:01:19 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:00:22 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.702	62	786023	43.02	PPBV	100
51)	BENZENE	4.171	78	1476843	43.33	PPBV	100
53)	CYCLOHEXANE	4.380	84	660333	43.05	PPBV	99
54)	2,3-DIMETHYLPENTANE	4.634	71	342659	43.55	PPBV	99
55)	TRICHLOROETHENE	5.065	95	697734	41.42	PPBV	100
56)	1,2-DICHLOROPROPANE	4.834	63	592598	41.86	PPBV	100
57)	DIBROMOMETHANE	4.792	174	613694	41.83	PPBV	100
58)	ETHYL ACRYLATE	4.953	55	1336385	43.54	PPBV	100
59)	BROMODICHLOROMETHANE	5.014	83	1156711	42.23	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	5.158	57	2680756	42.95	PPBV	100
61)	1,4-DIOXANE	5.072	88	360357	40.48	PPBV	97
62)	HEPTANE	5.474	43	959929	44.25	PPBV	100
63)	METHYL METHACRYLATE	5.367	69	588562	43.68	PPBV	98
64)	METHYL ISOBUTYL KETONE	6.094	58	531405	42.76	PPBV	99
65)	CIS-1,3-DICHLOROPROPENE	5.994	75	1007886	43.71	PPBV	100
66)	TOLUENE	7.194	91	1917193	42.81	PPBV	99
67)	1,3-DICHLOROPROPANE	7.252	76	942161	42.70	PPBV	99
68)	TRANS-1,3-DICHLOROPROPENE	6.670	75	919599	42.50	PPBV	98
69)	1,1,2-TRICHLOROETHANE	6.827	83	546179	42.88	PPBV	100
70)	2-HEXANONE	7.760	58	734508	42.06	PPBV	98
71)	ETHYL METHACRYLATE	7.898	69	990940	42.20	PPBV	99
72)	TETRACHLOROETHENE	8.914	164	760618	44.10	PPBV	100
73)	DIBROMOCHLOROMETHANE	7.724	129	1226800	44.15	PPBV	100
74)	1,2-DIBROMOETHANE	8.068	107	1076666	44.47	PPBV	100
75)	OCTANE	9.065	43	1356937	44.57	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	10.133	131	890891	43.21	PPBV	99
78)	CHLOROBENZENE	10.120	112	1599753	43.04	PPBV	99
79)	ETHYLBENZENE	10.997	91	2611736	44.06	PPBV	99
80)	M,P-XYLENE	11.428	91	4059078	85.31	PPBV	97
81)	O-XYLENE	12.358	91	2063787	43.28	PPBV	99
82)	STYRENE	12.145	104	1646434	45.06	PPBV	99
83)	NONANE	13.483	43	1444945	43.88	PPBV	99
84)	BROMOFORM	11.239	173	1131928	44.81	PPBV	100
85)	1,1,2,2-TETRACHLOROETHANE	12.377	83	1439647	43.59	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.653	75	1138740	42.27	PPBV	100
88)	ISOPROPYLBENZENE	13.872	120	810452	42.53	PPBV	99
89)	BROMOBENZENE	13.737	77	1459071	41.64	PPBV	100
90)	2-CHLOROTOLUENE	14.865	126	737857	41.58	PPBV	100
91)	N-PROPYLBENZENE	15.206	120	861737	43.25	PPBV	99
92)	4-ETHYLTOLUENE	15.650	105	3111086	44.97	PPBV	100
93)	1,3,5-TRIMETHYLBENZENE	15.927	105	2621466	45.35	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.219	118	1342872	44.04	PPBV	100
95)	TERT-BUTYLBENZENE	16.537	134	619552	44.56	PPBV	98
96)	1,2,4-TRIMETHYLBENZENE	16.547	105	2668790	45.73	PPBV	99
97)	BENZYL CHLORIDE	16.634	91	2480317	45.63	PPBV	100
98)	M-DICHLOROBENZENE	16.608	146	1757061	43.47	PPBV	100
99)	P-DICHLOROBENZENE	16.698	146	1789106	45.79	PPBV	99
100)	O-DICHLOROBENZENE	17.017	146	1669395	44.86	PPBV	100
101)	SEC-BUTYLBENZENE	16.843	134	787041	44.86	PPBV	100
102)	1,2,3-TRIMETHYLBENZENE	16.962	105	2615378	45.01	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.036	134	851176	44.08	PPBV	99
104)	N-BUTYLBENZENE	17.399	134	867814	45.39	PPBV	99
105)	HEXACHLOROETHANE	17.576	117	1087679	46.31	PPBV	100
106)	HEXACHLOROBUTADIENE	18.634	225	1294963	46.02	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.325	180	1761750	50.35	PPBV	99
108)	NAPHTHALENE	18.373	128	3967394	52.90	PPBV	100
110)	TVHC as equiv Pentane	2.271	TIC	2326791	42.64	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11242.D
Acq On : 28 Dec 2024 3:08 pm
Operator : benk
Sample : ic405-40
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 05:01:19 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:00:22 2024
Response via : Initial Calibration

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

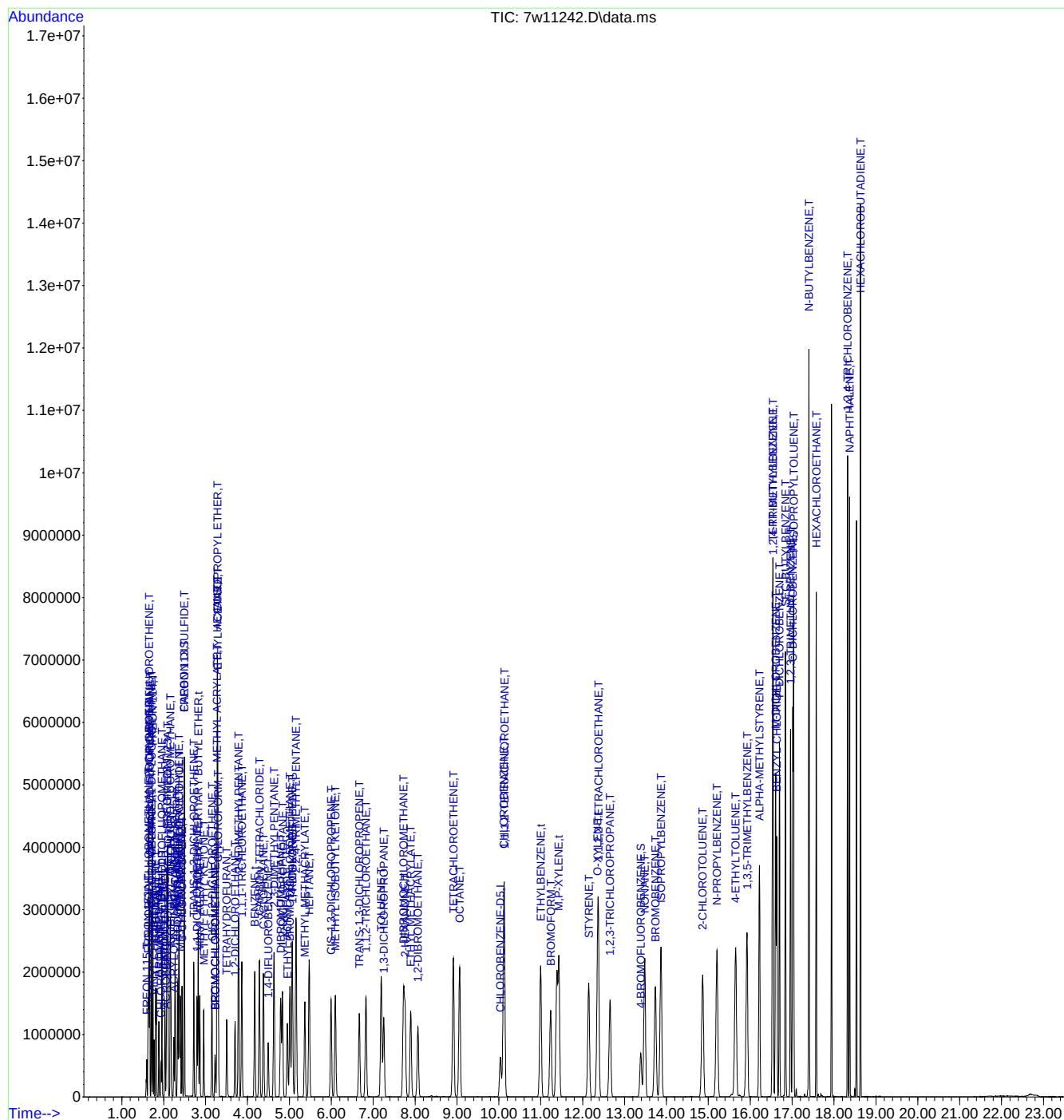
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.7.32

7

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11242.D
Acq On : 28 Dec 2024 3:08 pm
Operator : benk
Sample : ic405-40
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 05:01:19 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:00:22 2024
Response via : Initial Calibration



7.7.32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11243.D
Acq On : 28 Dec 2024 3:52 pm
Operator : benk
Sample : ic405-50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 05:02:32 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:01:43 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	131520	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.496	114	651140	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.036	117	631688	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	131506	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.390	95	464012	10.05	PPBV	0.00
Target Compounds						
						Qvalue
2) FREON 115	1.599	119	741705	72.63	PPBV	100
3) FREON 152A	1.628	65	330254	50.71	PPBV	100
4) CHLORODIFLUOROMETHANE	1.638	67	159956	50.37	PPBV	99
5) CHLOROTRIFLUOROETHENE	1.651	116	768882	48.76	PPBV	100
6) DICHLORODIFLUOROMETHANE	1.667	85	1645131	49.40	PPBV	99
7) PROPYLENE	1.647	41	405917	51.25	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	1.705	65	1189703	48.61	PPBV	99
9) FREON 114	1.737	85	1353130	50.82	PPBV	100
10) CHLOROMETHANE	1.708	52	152465	48.29	PPBV	98
11) VINYL CHLORIDE	1.770	62	552847	48.68	PPBV	100
12) 1,3-BUTADIENE	1.808	54	438160	51.38	PPBV	98
13) N-BUTANE	1.824	43	801394	50.60	PPBV	99
14) BROMOMETHANE	1.882	94	469518	48.99	PPBV	99
15) CHLOROETHANE	1.930	64	286683	49.28	PPBV	98
16) DICHLOROFLUOROMETHANE	1.956	67	1156192	49.55	PPBV	99
17) ACETONITRILE	2.024	41	464245	48.23	PPBV	99
18) ACROLEIN	2.062	56	255031	50.01	PPBV	99
19) FREON 123	2.075	83	1209864	49.38	PPBV	99
20) FREON 123A	2.094	117	776496	50.55	PPBV	98
21) TRICHLOROFLUOROMETHANE	2.159	101	1437566	48.14	PPBV	100
22) ISOPROPYL ALCOHOL	2.171	45	1119311	49.31	PPBV	99
23) ACETONE	2.101	58	279034	48.35	PPBV	94
24) PENTANE	2.271	42	578759	50.86	PPBV	98
25) IODOMETHANE	2.332	142	1380179	50.59	PPBV	100
26) 1,1-DICHLOROETHYLENE	2.361	96	522266	49.55	PPBV	98
27) CARBON DISULFIDE	2.493	76	1448449	49.60	PPBV	97
28) ETHANOL	1.959	45	282775	47.56	PPBV	99
29) BROMOETHENE	2.030	106	504672	49.11	PPBV	99
30) ACRYLONITRILE	2.242	52	403117	51.71	PPBV	99
31) METHYLENE CHLORIDE	2.397	84	457423	48.53	PPBV	99
32) 3-CHLOROPROPENE	2.438	76	264624	49.56	PPBV	96
33) FREON 113	2.493	151	847049	48.11	PPBV	100
34) TRANS-1,2-DICHLOROETHENE	2.718	96	555898	49.15	PPBV	99
35) TERTIARY BUTYL ALCOHOL	2.371	59	1254686	45.34	PPBV	98
36) METHYL TERTIARY BUTYL ...	2.824	73	1709140	50.45	PPBV	100
37) TETRAHYDROFURAN	3.503	72	279916	49.61	PPBV	99
38) HEXANE	3.277	57	1018882	49.33	PPBV	98
39) VINYL ACETATE	2.863	86	164258	50.40	PPBV	100
40) 1,1-DICHLOROETHANE	2.795	63	1086544	50.15	PPBV	100
41) METHYL ETHYL KETONE	2.956	72	300553	50.53	PPBV	100
42) CIS-1,2-DICHLOROETHENE	3.152	96	620942	49.96	PPBV	98
43) DIISOPROPYL ETHER	3.284	59	294295	50.32	PPBV	99
44) ETHYL ACETATE	3.287	61	210312	49.48	PPBV	98
45) METHYL ACRYLATE	3.274	55	1251870	50.49	PPBV #	100
46) CHLOROFORM	3.303	83	1199986	49.23	PPBV	99
47) 2,4-DIMETHYLPENTANE	3.789	57	1214203	50.98	PPBV	100
48) 1,1,1-TRICHLOROETHANE	3.866	97	1336098	50.59	PPBV	99
49) CARBON TETRACHLORIDE	4.284	117	1464922	51.64	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11243.D
Acq On : 28 Dec 2024 3:52 pm
Operator : benk
Sample : ic405-50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 05:02:32 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:01:43 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
50)	1,2-DICHLOROETHANE	3.705	62	955960	51.25	PPBV	100
51)	BENZENE	4.175	78	1792719	51.55	PPBV	100
53)	CYCLOHEXANE	4.380	84	802582	51.32	PPBV	99
54)	2,3-DIMETHYLPENTANE	4.634	71	416634	51.90	PPBV	99
55)	TRICHLOROETHENE	5.068	95	847031	49.44	PPBV	100
56)	1,2-DICHLOROPROPANE	4.837	63	718356	49.76	PPBV	100
57)	DIBROMOMETHANE	4.795	174	746491	49.91	PPBV	100
58)	ETHYL ACRYLATE	4.953	55	1632310	51.89	PPBV	100
59)	BROMODICHLOROMETHANE	5.014	83	1408411	50.31	PPBV	99
60)	2,2,4-TRIMETHYLPENTANE	5.162	57	3257100	51.21	PPBV	100
61)	1,4-DIOXANE	5.075	88	440803	48.96	PPBV	97
62)	HEPTANE	5.474	43	1173841	52.95	PPBV	100
63)	METHYL METHACRYLATE	5.371	69	720078	52.34	PPBV	99
64)	METHYL ISOBUTYL KETONE	6.101	58	647296	51.17	PPBV	99
65)	CIS-1,3-DICHLOROPROPENE	5.998	75	1227694	51.89	PPBV	99
66)	TOLUENE	7.197	91	2335761	50.98	PPBV	99
67)	1,3-DICHLOROPROPANE	7.258	76	1144657	50.75	PPBV	99
68)	TRANS-1,3-DICHLOROPROPENE	6.673	75	1120807	50.23	PPBV	98
69)	1,1,2-TRICHLOROETHANE	6.827	83	664842	51.12	PPBV	100
70)	2-HEXANONE	7.766	58	885743	49.80	PPBV	99
71)	ETHYL METHACRYLATE	7.901	69	1209704	50.42	PPBV	99
72)	TETRACHLOROETHENE	8.917	164	924639	52.38	PPBV	100
73)	DIBROMOCHLOROMETHANE	7.724	129	1501535	52.28	PPBV	100
74)	1,2-DIBROMOETHANE	8.075	107	1306005	52.72	PPBV	100
75)	OCTANE	9.068	43	1653400	52.92	PPBV	100
77)	1,1,1,2-TETRACHLOROETHANE	10.136	131	1082043	50.59	PPBV	100
78)	CHLOROBENZENE	10.123	112	1946099	50.52	PPBV	99
79)	ETHYLBENZENE	11.001	91	3179194	51.68	PPBV	99
80)	M,P-XYLENE	11.435	91	4921035	99.78	PPBV	98
81)	O-XYLENE	12.361	91	2517379	50.98	PPBV	99
82)	STYRENE	12.149	104	2010092	52.71	PPBV	99
83)	NONANE	13.486	43	1757408	51.36	PPBV	99
84)	BROMOFORM	11.242	173	1393708	52.57	PPBV	99
85)	1,1,2,2-TETRACHLOROETHANE	12.380	83	1753514	51.18	PPBV	100
86)	1,2,3-TRICHLOROPROPANE	12.660	75	1387618	49.69	PPBV	100
88)	ISOPROPYLBENZENE	13.875	120	989751	50.03	PPBV	99
89)	BROMOBENZENE	13.740	77	1780294	48.96	PPBV	100
90)	2-CHLOROTOLUENE	14.872	126	902403	48.90	PPBV	100
91)	N-PROPYLBENZENE	15.209	120	1049686	50.53	PPBV	100
92)	4-ETHYLTOLUENE	15.656	105	3853366	53.27	PPBV	99
93)	1,3,5-TRIMETHYLBENZENE	15.927	105	3207147	52.95	PPBV	100
94)	ALPHA-METHYLSTYRENE	16.226	118	1650946	51.44	PPBV	100
95)	TERT-BUTYLBENZENE	16.537	134	754397	52.14	PPBV	99
96)	1,2,4-TRIMETHYLBENZENE	16.550	105	3224984	52.75	PPBV	99
97)	BENZYL CHLORIDE	16.637	91	3059411	52.97	PPBV	100
98)	M-DICHLOROBENZENE	16.608	146	2144105	50.56	PPBV	100
99)	P-DICHLOROBENZENE	16.701	146	2186003	53.27	PPBV	99
100)	O-DICHLOROBENZENE	17.016	146	2046435	52.38	PPBV	100
101)	SEC-BUTYLBENZENE	16.846	134	958582	52.29	PPBV	100
102)	1,2,3-TRIMETHYLBENZENE	16.965	105	3193608	52.30	PPBV	100
103)	P-ISOPROPYLTOLUENE	17.039	134	1037323	51.52	PPBV	100
104)	N-BUTYLBENZENE	17.402	134	1055468	52.54	PPBV	98
105)	HEXACHLOROETHANE	17.579	117	1337599	54.18	PPBV	99
106)	HEXACHLOROBUTADIENE	18.640	225	1579214	53.23	PPBV	99
107)	1,2,4-TRICHLOROBENZENE	18.328	180	2214716	58.74	PPBV	99
108)	NAPHTHALENE	18.377	128	5075640	61.94	PPBV	99
110)	TVHC as equiv Pentane	2.271	TIC	2805792	50.47	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\7w\
Data File : 7w11243.D
Acq On : 28 Dec 2024 3:52 pm
Operator : benk
Sample : ic405-50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 29 05:02:32 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:01:43 2024
Response via : Initial Calibration

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

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

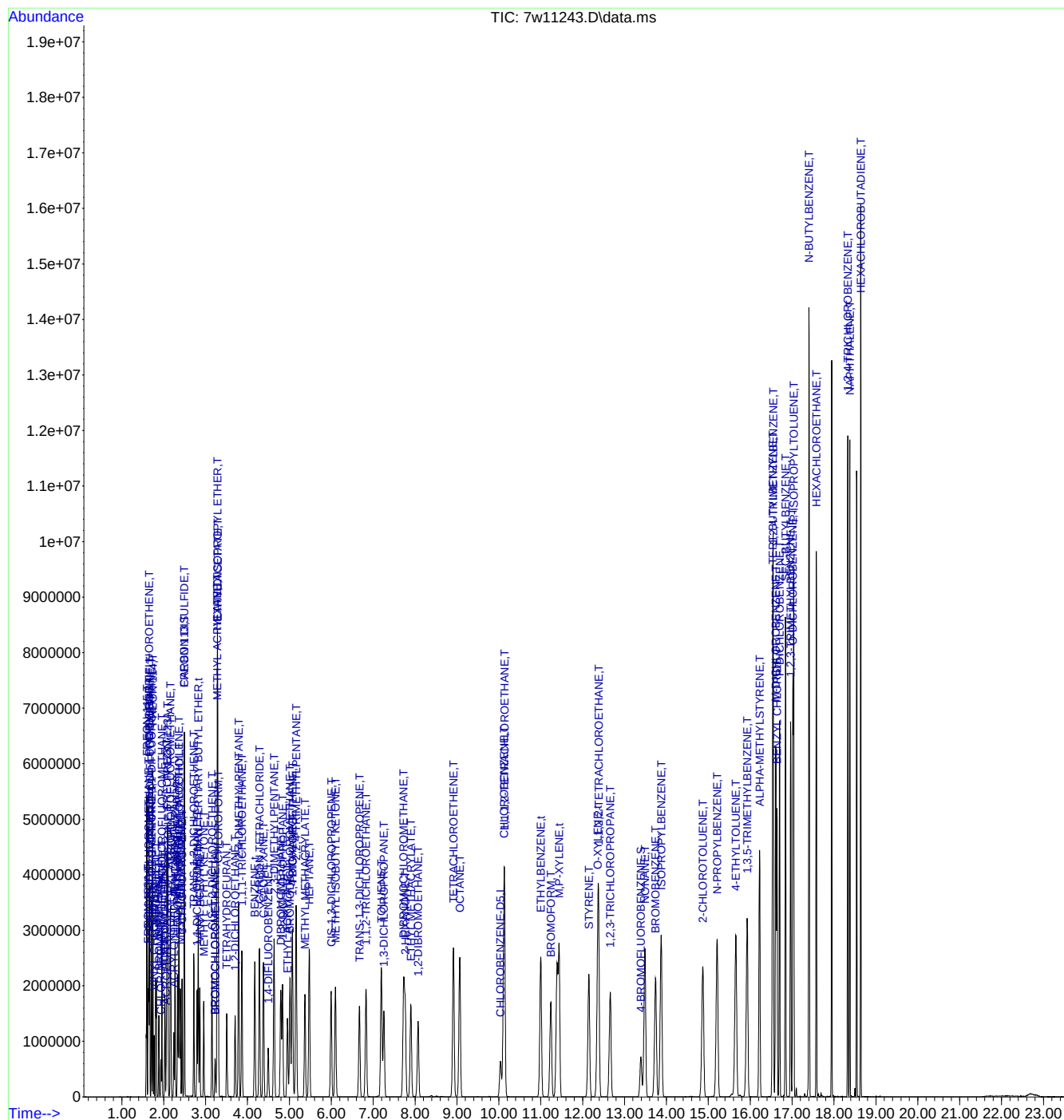
7.7.33

7

Quantitation Report (QT Reviewed)

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Data Path : C:\msdchem\1\data\7w\
Data File : 7w11243.D
Acq On : 28 Dec 2024 3:52 pm
Operator : benk
Sample : ic405-50
Misc : MS74014,v7w405,,,,,1
ALS Vial : 4 Sample Multiplier: 1
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Quant Time: Dec 29 05:02:32 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 05:01:43 2024
Response via : Initial Calibration



7.7.33

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\
 Data File : 7w11247.D
 Acq On : 28 Dec 2024 6:36 pm
 Operator : benk
 Sample : icv405-10
 Misc : MS74014,v7w405,,,,,1
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 06:37:40 2024
 Quant Method : C:\msdchem\1\methods\M7W405.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Sun Dec 29 06:35:34 2024
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.226	128	128326	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.493	114	645131	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.033	117	603905	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.226	128	128326	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.383	95	441032	10.06	PPBV	0.00
Target Compounds						
						Qvalue
3) FREON 152A	1.625	65	70330	11.51	PPBV	100
4) CHLORODIFLUOROMETHANE	1.638	67	34678	11.18	PPBV	99
5) CHLOROTRIFLUOROETHENE	1.651	116	167351	11.20	PPBV	99
6) DICHLORODIFLUOROMETHANE	1.667	85	361530	11.30	PPBV	100
7) PROPYLENE	1.647	41	87750	10.42	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	1.702	65	268830	11.34	PPBV	100
9) FREON 114	1.737	85	299987	11.82	PPBV	100
10) CHLOROMETHANE	1.708	52	32863	9.89	PPBV	98
11) VINYL CHLORIDE	1.770	62	117466	10.94	PPBV	99
12) 1,3-BUTADIENE	1.808	54	93721	10.25	PPBV	98
13) N-BUTANE	1.824	43	176537	10.61	PPBV	99
14) BROMOMETHANE	1.882	94	103865	10.82	PPBV	99
15) CHLOROETHANE	1.930	64	61928	10.66	PPBV	99
16) DICHLOROFLUOROMETHANE	1.956	67	260538	11.51	PPBV	100
17) ACETONITRILE	2.024	41	102868	9.97	PPBV	99
18) ACRYLEIN	2.062	56	56736	11.23	PPBV	97
19) FREON 123	2.075	83	258469	10.59	PPBV	98
20) FREON 123A	2.091	117	158572	10.43	PPBV	99
21) TRICHLOROFLUOROMETHANE	2.155	101	326972	11.60	PPBV	99
22) ISOPROPYL ALCOHOL	2.175	45	252254	10.61	PPBV	100
23) ACETONE	2.101	58	61862	8.30	PPBV	98
24) PENTANE	2.271	42	125892	11.02	PPBV	100
25) IODOMETHANE	2.332	142	311082	12.05	PPBV	100
26) 1,1-DICHLOROETHYLENE	2.358	96	116228	10.45	PPBV	100
27) CARBON DISULFIDE	2.493	76	336807	12.16	PPBV	100
28) ETHANOL	1.959	45	54389	8.36	PPBV	100
29) BROMOETHENE	2.030	106	110904	10.85	PPBV	99
30) ACRYLONITRILE	2.242	52	88143	9.55	PPBV	98
31) METHYLENE CHLORIDE	2.397	84	104004	10.24	PPBV	97
32) 3-CHLOROPROPENE	2.438	76	58086	10.99	PPBV	98
33) FREON 113	2.490	151	198243	11.77	PPBV	99
34) TRANS-1,2-DICHLOROETHENE	2.718	96	124974	10.79	PPBV	100
35) TERTIARY BUTYL ALCOHOL	2.374	59	310048	11.34	PPBV	100
36) METHYL TERTIARY BUTYL ...	2.824	73	371996	11.23	PPBV	99
37) TETRAHYDROFURAN	3.506	72	62673	12.21	PPBV	95
38) HEXANE	3.278	57	218344	10.33	PPBV	99
39) VINYL ACETATE	2.860	86	35662	11.38	PPBV	95
40) 1,1-DICHLOROETHANE	2.792	63	235369	11.36	PPBV	100
41) METHYL ETHYL KETONE	2.956	72	64179	11.26	PPBV	99
42) CIS-1,2-DICHLOROETHENE	3.149	96	136309	11.43	PPBV	100
43) DIISOPROPYL ETHER	3.281	59	65035	11.11	PPBV	96
44) ETHYL ACETATE	3.284	61	45987	11.36	PPBV	98
45) METHYL ACRYLATE	3.271	55	275665	11.61	PPBV #	99
46) CHLOROFORM	3.297	83	276173	11.77	PPBV	100
47) 2,4-DIMETHYLPENTANE	3.786	57	258551	11.06	PPBV	99
48) 1,1,1-TRICHLOROETHANE	3.863	97	291531	11.59	PPBV	100
49) CARBON TETRACHLORIDE	4.281	117	311447	12.49	PPBV	100
50) 1,2-DICHLOROETHANE	3.702	62	207686	11.83	PPBV	100

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w11247.D
Acq On : 28 Dec 2024 6:36 pm
Operator : benk
Sample : icv405-10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 06:37:40 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:35:34 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) BENZENE	4.171	78	391655	11.43	PPBV	100
53) CYCLOHEXANE	4.377	84	173685	11.40	PPBV	99
54) 2,3-DIMETHYLPENTANE	4.631	71	90324	11.29	PPBV	98
55) TRICHLOROETHENE	5.062	95	186131	11.35	PPBV	99
56) 1,2-DICHLOROPROPANE	4.831	63	156847	11.21	PPBV	99
57) DIBROMOMETHANE	4.789	174	165870	10.76	PPBV	100
58) ETHYL ACRYLATE	4.946	55	348773	11.73	PPBV	100
59) BROMODICHLOROMETHANE	5.007	83	304404	11.65	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.155	57	699924	11.28	PPBV	100
61) 1,4-DIOXANE	5.078	88	97454	10.66	PPBV	99
62) HEPTANE	5.467	43	248482	11.40	PPBV	99
63) METHYL METHACRYLATE	5.367	69	154917	11.06	PPBV	99
64) METHYL ISOBUTYL KETONE	6.094	58	139000	10.68	PPBV	100
65) CIS-1,3-DICHLOROPROPENE	5.991	75	243164	11.10	PPBV	99
66) TOLUENE	7.187	91	493387	10.82	PPBV	100
67) 1,3-DICHLOROPROPANE	7.245	76	247994	11.65	PPBV	100
68) TRANS-1,3-DICHLOROPROPENE	6.663	75	231781	11.25	PPBV	100
69) 1,1,2-TRICHLOROETHANE	6.821	83	144738	11.55	PPBV	100
70) 2-HEXANONE	7.760	58	194335	9.56	PPBV	99
71) ETHYL METHACRYLATE	7.888	69	261342	10.73	PPBV	100
72) TETRACHLOROETHENE	8.908	164	197736	11.45	PPBV	100
73) DIBROMOCHLOROMETHANE	7.718	129	308711	11.73	PPBV	100
74) 1,2-DIBROMOETHANE	8.059	107	282440	12.31	PPBV	100
75) OCTANE	9.055	43	344924	11.17	PPBV	100
77) 1,1,1,2-TETRACHLOROETHANE	10.120	131	230150	11.92	PPBV	100
78) CHLOROBENZENE	10.110	112	411539	11.71	PPBV	99
79) ETHYLBENZENE	10.991	91	673474	11.32	PPBV	100
80) M,P-XYLENE	11.422	91	1045863	23.44	PPBV	98
81) O-XYLENE	12.345	91	527613	11.27	PPBV	100
82) STYRENE	12.136	104	411836	12.28	PPBV	100
83) NONANE	13.467	43	366216	11.39	PPBV	99
84) BROMOFORM	11.226	173	264242	11.41	PPBV	100
85) 1,1,2,2-TETRACHLOROETHANE	12.361	83	378232	12.14	PPBV	100
86) 1,2,3-TRICHLOROPROPANE	12.644	75	297750	11.98	PPBV	100
88) ISOPROPYLBENZENE	13.862	120	209087	11.69	PPBV	100
89) BROMOBENZENE	13.724	77	380384	11.41	PPBV	100
90) 2-CHLOROTOLUENE	14.856	126	191686	11.78	PPBV	99
91) N-PROPYLBENZENE	15.197	120	216658	11.95	PPBV	100
92) 4-ETHYLTOLUENE	15.640	105	779399	11.98	PPBV	100
93) 1,3,5-TRIMETHYLBENZENE	15.910	105	647532	11.83	PPBV	100
94) ALPHA-METHYLSTYRENE	16.213	118	336497	12.04	PPBV	99
95) TERT-BUTYLBENZENE	16.528	134	157132	11.99	PPBV	99
96) 1,2,4-TRIMETHYLBENZENE	16.537	105	661357	11.98	PPBV	100
97) BENZYL CHLORIDE	16.628	91	620171	12.69	PPBV	100
98) M-DICHLOROBENZENE	16.599	146	435352	11.56	PPBV	100
99) P-DICHLOROBENZENE	16.692	146	440736	12.03	PPBV	99
100) O-DICHLOROBENZENE	17.010	146	412635	11.60	PPBV	99
101) SEC-BUTYLBENZENE	16.837	134	199730	12.23	PPBV	100
102) 1,2,3-TRIMETHYLBENZENE	16.955	105	642369	11.62	PPBV	100
103) P-ISOPROPYLTOLUENE	17.033	134	217932	12.04	PPBV	100
104) N-BUTYLBENZENE	17.396	134	210699	11.92	PPBV	99
105) HEXACHLOROETHANE	17.573	117	264746	12.57	PPBV	100
106) HEXACHLOROBTADIENE	18.631	225	299792	11.33	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.319	180	379717	12.49	PPBV	100
108) NAPHTHALENE	18.367	128	867478	12.86	PPBV	100
110) TVHC as equiv Pentane	2.271	TIC	618380	11.35	PPBV	100

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 7w11247.D
Acq On : 28 Dec 2024 6:36 pm
Operator : benk
Sample : icv405-10
Misc : MS74014,v7w405,,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 29 06:37:40 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:35:34 2024
Response via : Initial Calibration

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

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

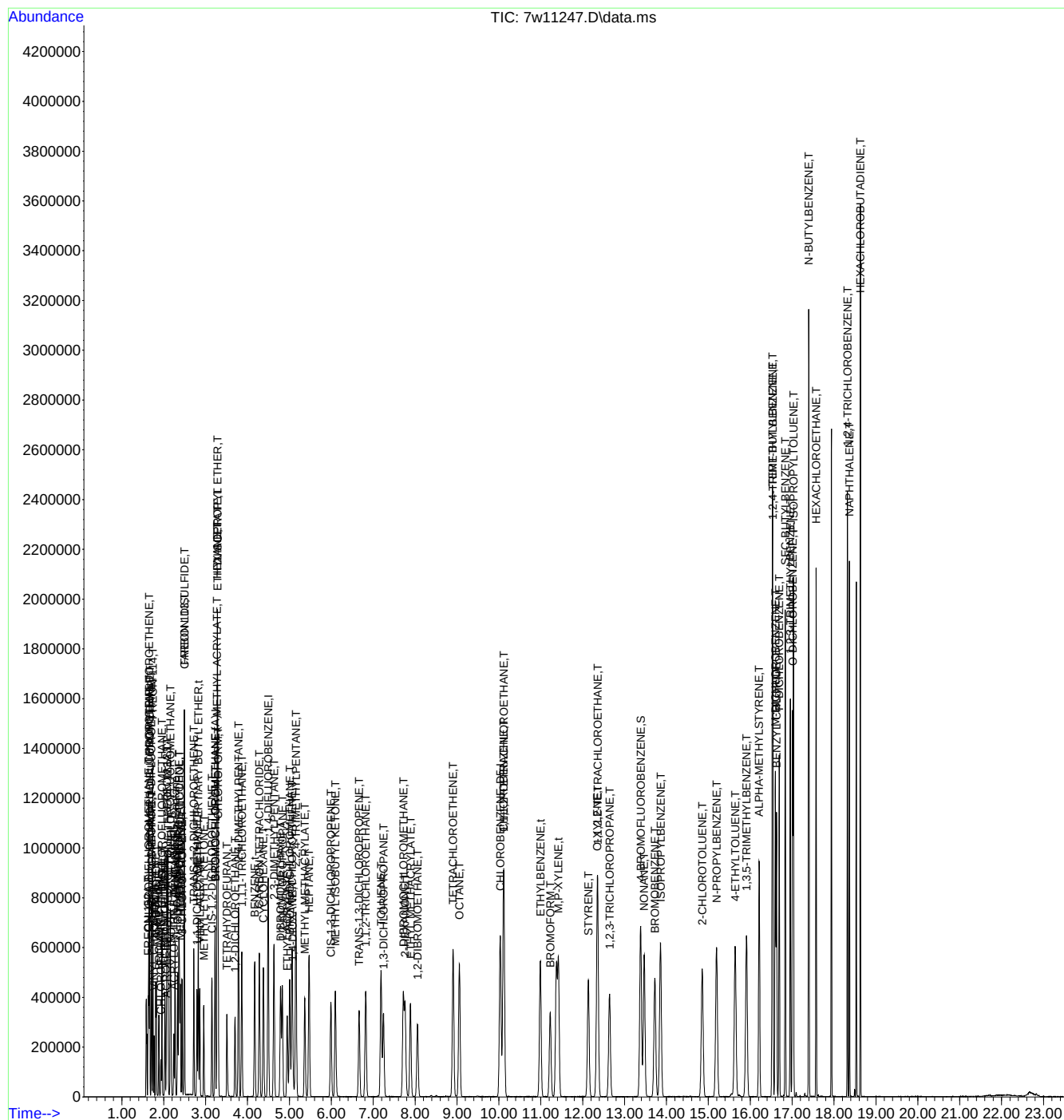
7.7.34

7

Quantitation Report (Not Reviewed)

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Data Path : C:\msdchem\1\data\  
Data File : 7w11247.D  
Acq On : 28 Dec 2024    6:36 pm  
Operator : benk  
Sample : icv405-10  
Misc : MS74014,v7w405,,,,,1  
ALS Vial : 5    Sample Multiplier: 1
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Quant Time: Dec 29 06:37:40 2024
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 06:35:34 2024
Response via : Initial Calibration



7.7.34



Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\012025\V7W425\
 Data File : 7w11898.D
 Acq On : 18 Jan 2025 11:57 pm
 Operator : benk
 Sample : cc405-10 Inst : MS7W
 Misc : MS88797,V7W425,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 20 11:46:38 2025
 Quant Method : C:\msdchem\1\methods\M7W405.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Sun Dec 29 19:41:17 2024
 Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	109011	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.495	114	551030	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.035	117	511965	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	108993	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.383	95	397516	10.70	PPBV	0.00
Target Compounds						
					Qvalue	
3) FREON 152A	1.627	65	59173	11.3986	PPBV	94
4) CHLORODIFLUOROMETHANE	1.640	67	27998	10.6240	PPBV	100
5) CHLOROTRIFLUOROETHENE	1.650	116	134003	10.5560	PPBV	73
6) DICHLORODIFLUOROMETHANE	1.666	85	351826	12.9443	PPBV	99
7) PROPYLENE	1.650	41	64218	8.9769	PPBV	98
8) 1-CHLORO-1,1-DIFLUOROE...	1.705	65	280338	13.9259	PPBV	98
9) FREON 114	1.740	85	294832	13.6751	PPBV	93
10) CHLOROMETHANE	1.711	52	32202	11.4127	PPBV	100
11) VINYL CHLORIDE	1.772	62	115073	12.6212	PPBV	100
12) 1,3-BUTADIENE	1.811	54	83147	10.7030	PPBV	93
13) N-BUTANE	1.827	43	140426	9.9325	PPBV	96
14) BROMOMETHANE	1.885	94	98968	12.1418	PPBV	99
15) CHLOROETHANE	1.933	64	59813	12.1225	PPBV #	87
16) DICHLOROFLUOROMETHANE	1.959	67	242425	12.6125	PPBV	100
17) ACETONITRILE	2.026	41	76123	8.6883	PPBV	99
18) ACRYLONITRILE	2.065	56	47309	10.2806	PPBV	98
19) FREON 123	2.078	83	256197	12.3516	PPBV	97
20) FREON 123A	2.097	117	148403	11.4915	PPBV	85
21) TRICHLOROFLUOROMETHANE	2.161	101	290912	12.1536	PPBV	100
22) ISOPROPYL ALCOHOL	2.177	45	190396	9.4279	PPBV	97
23) ACETONE	2.103	58	55326	8.7353	PPBV	82
24) PENTANE	2.274	42	95819	9.8778	PPBV	98
25) IODOMETHANE	2.335	142	253828	11.5710	PPBV	94
26) 1,1-DICHLOROETHYLENE	2.364	96	106071	11.2220	PPBV	99
27) CARBON DISULFIDE	2.496	76	323947	13.7624	PPBV	98
28) ETHANOL	1.962	45	49377	8.9316	PPBV	99
29) BROMOETHENE	2.033	106	100214	11.5403	PPBV	98
30) ACRYLONITRILE	2.245	52	74548	9.5098	PPBV	98
31) METHYLENE CHLORIDE	2.399	84	99973	11.5868	PPBV	93
32) 3-CHLOROPROPENE	2.441	76	54933	12.2382	PPBV	83
33) FREON 113	2.496	151	167251	11.6865	PPBV	86
34) TRANS-1,2-DICHLOROETHENE	2.721	96	110267	11.2063	PPBV	98
35) TERTIARY BUTYL ALCOHOL	2.377	59	238160	10.2542	PPBV	100
36) METHYL TERTIARY BUTYL ...	2.827	73	265669	9.4417	PPBV	96
37) TETRAHYDROFURAN	3.508	72	52926	12.1382	PPBV	88
38) HEXANE	3.280	57	192894	10.7441	PPBV	97
39) VINYL ACETATE	2.865	86	24452	9.1815	PPBV	76
40) 1,1-DICHLOROETHANE	2.795	63	175245	9.9538	PPBV	99
41) METHYL ETHYL KETONE	2.959	72	57345	11.8405	PPBV	82
42) CIS-1,2-DICHLOROETHENE	3.155	96	114961	11.3430	PPBV	100
43) DIISOPROPYL ETHER	3.283	59	57045	11.4732	PPBV	86
44) ETHYL ACETATE	3.290	61	39897	11.5986	PPBV	92
45) METHYL ACRYLATE	3.274	55	231115	11.4582	PPBV #	99
46) CHLOROFORM	3.299	83	238040	11.9468	PPBV	98
47) 2,4-DIMETHYLPENTANE	3.788	57	220725	11.1197	PPBV	99
48) 1,1,1-TRICHLOROETHANE	3.865	97	235409	11.0175	PPBV	98
49) CARBON TETRACHLORIDE	4.283	117	232557	10.9744	PPBV	100
50) 1,2-DICHLOROETHANE	3.704	62	178072	11.9369	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristel\012025\V7W425\
 Data File : 7w11898.D
 Acq On : 18 Jan 2025 11:57 pm
 Operator : benk
 Sample : cc405-10 Inst : MS7W
 Misc : MS88797,V7W425,,,,,1
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 20 11:46:38 2025
 Quant Method : C:\msdchem\1\methods\M7W405.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Sun Dec 29 19:41:17 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) BENZENE	4.174	78	338981	11.6433	PPBV	97
53) CYCLOHEXANE	4.380	84	151116	11.6076	PPBV	97
54) 2,3-DIMETHYLPENTANE	4.637	71	78375	11.4663	PPBV	97
55) TRICHLOROETHENE	5.065	95	155597	11.1086	PPBV	94
56) 1,2-DICHLOROPROPANE	4.833	63	134541	11.2590	PPBV	100
57) DIBROMOMETHANE	4.794	174	129569	9.8447	PPBV	94
58) ETHYL ACRYLATE	4.949	55	280025	11.0287	PPBV	99
59) BROMODICHLOROMETHANE	5.010	83	260845	11.6890	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.158	57	596866	11.2645	PPBV	100
61) 1,4-DIOXANE	5.077	88	82548	10.5694	PPBV	99
62) HEPTANE	5.470	43	197964	10.6311	PPBV	93
63) METHYL METHACRYLATE	5.367	69	129471	10.8183	PPBV	92
64) METHYL ISOBUTYL KETONE	6.097	58	120225	10.8146	PPBV	92
65) CIS-1,3-DICHLOROPROPENE	5.994	75	212234	11.3410	PPBV	96
66) TOLUENE	7.190	91	421677	10.8301	PPBV	99
67) 1,3-DICHLOROPROPANE	7.248	76	213356	11.7330	PPBV	99
68) TRANS-1,3-DICHLOROPROPENE	6.666	75	180970	10.2868	PPBV	96
69) 1,1,2-TRICHLOROETHANE	6.820	83	125750	11.7495	PPBV	96
70) 2-HEXANONE	7.759	58	166008	9.5630	PPBV	91
71) ETHYL METHACRYLATE	7.891	69	215107	10.3385	PPBV	95
72) TETRACHLOROETHENE	8.907	164	158574	10.7490	PPBV	98
73) DIBROMOCHLOROMETHANE	7.720	129	241460	10.7382	PPBV	99
74) 1,2-DIBROMOETHANE	8.058	107	226778	11.5746	PPBV	100
75) OCTANE	9.058	43	274916	10.4200	PPBV	96
77) 1,1,1,2-TETRACHLOROETHANE	10.122	131	170029	10.3912	PPBV	93
78) CHLOROBENZENE	10.109	112	341114	11.4500	PPBV	97
79) ETHYLBENZENE	10.990	91	565214	11.2089	PPBV	98
80) M,P-XYLENE	11.418	91	892601	22.5811	PPBV	98
81) O-XYLENE	12.350	91	453874	11.4326	PPBV	99
82) STYRENE	12.135	104	337736	11.8783	PPBV	99
83) NONANE	13.469	43	295741	10.8452	PPBV	97
84) BROMOFORM	11.228	173	217439	11.0786	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	12.363	83	339625	12.8545	PPBV	97
86) 1,2,3-TRICHLOROPROPANE	12.643	75	259922	12.3312	PPBV	100
88) ISOPROPYLBENZENE	13.855	120	165208	10.8928	PPBV	90
89) BROMOBENZENE	13.723	77	321532	11.3724	PPBV	90
90) 2-CHLOROTOLUENE	14.855	126	149291	10.8207	PPBV	100
91) N-PROPYLBENZENE	15.199	120	173144	11.2633	PPBV	99
92) 4-ETHYLTOLUENE	15.640	105	652494	11.8341	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	15.913	105	541031	11.6598	PPBV	97
94) ALPHA-METHYLSTYRENE	16.212	118	267781	11.2999	PPBV	99
95) TERT-BUTYLBENZENE	16.530	134	125327	11.2851	PPBV	92
96) 1,2,4-TRIMETHYLBENZENE	16.537	105	578711	12.3645	PPBV	95
97) BENZYL CHLORIDE	16.627	91	381854	9.2135	PPBV	97
98) M-DICHLOROBENZENE	16.598	146	347451	10.8836	PPBV	98
99) P-DICHLOROBENZENE	16.691	146	358087	11.5247	PPBV	98
100) O-DICHLOROBENZENE	17.009	146	340890	11.3084	PPBV	98
101) SEC-BUTYLBENZENE	16.839	134	160235	11.5782	PPBV	84
102) 1,2,3-TRIMETHYLBENZENE	16.955	105	557973	11.9015	PPBV	97
103) P-ISOPROPYLTOLUENE	17.029	134	176077	11.4772	PPBV	93
104) N-BUTYLBENZENE	17.392	134	173162	11.5525	PPBV	76
105) HEXACHLOROETHANE	17.572	117	198527	11.1176	PPBV	98
106) HEXACHLOROBUTADIENE	18.627	225	301229	13.4332	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.315	180	332069	12.8874	PPBV	99
108) NAPHTHALENE	18.363	128	709186	12.4007	PPBV	99
110) TVHC as equiv Pentane	2.274	TIC	485540	10.4915	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\kristelv\012025\V7W425\
Data File : 7w11898.D
Acq On : 18 Jan 2025 11:57 pm
Operator : benk
Sample : cc405-10 Inst : MS7W
Misc : MS88797,V7W425,,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 20 11:46:38 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

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

7.7.35

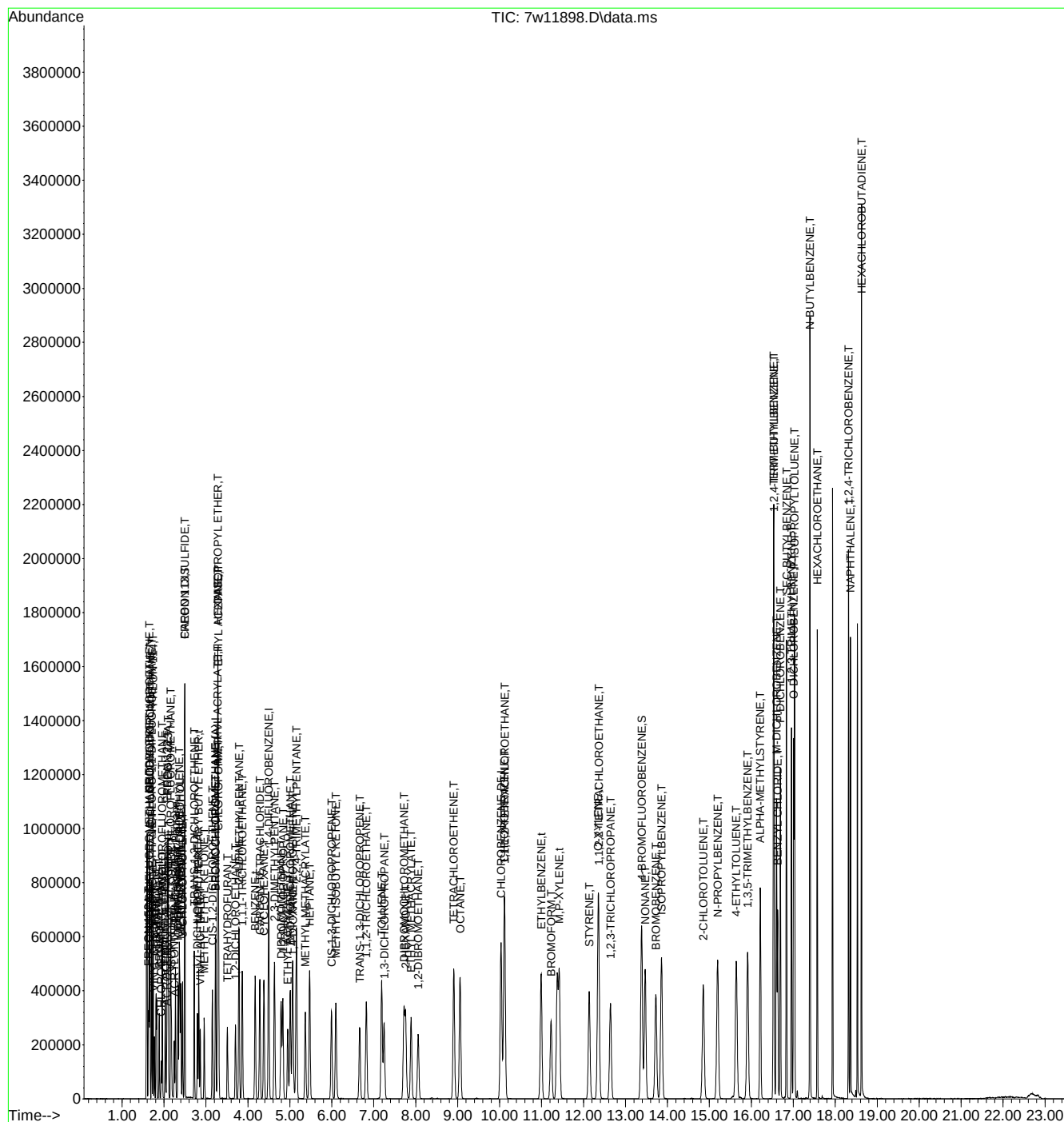
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Quantitation Report (QT Reviewed)

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Data Path : X:\Dayton VOA GCMS\kristelv\012025\V7w425\  
Data File : 7w11898.D  
Acq On : 18 Jan 2025 11:57 pm  
Operator : benk  
Sample : cc405-10  
Misc : MS88797,v7w425,,,,,1  
ALS Vial : 4 Sample Multiplier: 1
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Inst : MS7W

Quant Time: Jan 20 11:46:38 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



7.7.35

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12289.D
Acq On : 31 Jan 2025 10:58 am
Operator : williamc
Sample : cc405-10
Misc : MS89099,V7W437,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Inst : MS7W

Quant Time: Jan 31 21:34:29 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.229	128	122965	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.495	114	621851	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.032	117	583230	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.229	128	122965	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.386	95	453538	10.72	PPBV	0.00
Target Compounds						
					Qvalue	
3) FREON 152A	1.627	65	60252	10.2894	PPBV	96
4) CHLORODIFLUOROMETHANE	1.640	67	30647	10.3095	PPBV	100
5) CHLOROTRIFLUOROETHENE	1.653	116	147593	10.3072	PPBV	79
6) DICHLORODIFLUOROMETHANE	1.669	85	371722	12.1243	PPBV	98
7) PROPYLENE	1.650	41	65302	8.0925	PPBV	99
8) 1-CHLORO-1,1-DIFLUOROE...	1.704	65	284023	12.5079	PPBV	99
9) FREON 114	1.740	85	321553	13.2220	PPBV	98
10) CHLOROMETHANE	1.711	52	30417	9.5567	PPBV	94
11) VINYL CHLORIDE	1.772	62	115999	11.2790	PPBV	99
12) 1,3-BUTADIENE	1.811	54	85446	9.7507	PPBV	97
13) N-BUTANE	1.827	43	151152	9.4779	PPBV	97
14) BROMOMETHANE	1.885	94	108128	11.7602	PPBV	99
15) CHLOROETHANE	1.936	64	61717	11.0889	PPBV	97
16) DICHLOROFLUOROMETHANE	1.958	67	256570	11.8336	PPBV	99
17) ACETONITRILE	2.026	41	83018	8.4000	PPBV	98
18) ACROLEIN	2.065	56	42706	8.2272	PPBV	99
19) FREON 123	2.081	83	281111	12.0147	PPBV	97
20) FREON 123A	2.097	117	167776	11.5173	PPBV	94
21) TRICHLOROFLUOROMETHANE	2.161	101	326932	12.1085	PPBV	100
22) ISOPROPYL ALCOHOL	2.177	45	207984	9.1301	PPBV	97
23) ACETONE	2.103	58	56190	7.8649	PPBV	93
24) PENTANE	2.274	42	102697	9.3855	PPBV	96
25) IODOMETHANE	2.335	142	310182	12.5353	PPBV	99
26) 1,1-DICHLOROETHYLENE	2.364	96	118116	11.0783	PPBV	94
27) CARBON DISULFIDE	2.495	76	339627	12.7912	PPBV	99
28) ETHANOL	1.962	45	64860	10.4009	PPBV	100
29) BROMOETHENE	2.036	106	111115	11.3435	PPBV	97
30) ACRYLONITRILE	2.245	52	79604	9.0024	PPBV	98
31) METHYLENE CHLORIDE	2.399	84	108239	11.1213	PPBV	90
32) 3-CHLOROPROPENE	2.441	76	58524	11.5586	PPBV	83
33) FREON 113	2.495	151	205795	12.7479	PPBV	98
34) TRANS-1,2-DICHLOROETHENE	2.721	96	117420	10.5790	PPBV	91
35) TERTIARY BUTYL ALCOHOL	2.376	59	249696	9.5309	PPBV	98
36) METHYL TERTIARY BUTYL ...	2.827	73	325216	10.2464	PPBV	97
37) TETRAHYDROFURAN	3.508	72	55666	11.3178	PPBV	85
38) HEXANE	3.280	57	198118	9.7828	PPBV	98
39) VINYL ACETATE	2.862	86	29723	9.8942	PPBV	78
40) 1,1-DICHLOROETHANE	2.794	63	209640	10.5562	PPBV	99
41) METHYL ETHYL KETONE	2.958	72	59823	10.9504	PPBV	79
42) CIS-1,2-DICHLOROETHENE	3.155	96	125257	10.9564	PPBV	96
43) DIISOPROPYL ETHER	3.283	59	57279	10.2130	PPBV	90
44) ETHYL ACETATE	3.286	61	41853	10.7865	PPBV	89
45) METHYL ACRYLATE	3.274	55	236443	10.3921	PPBV #	100
46) CHLOROFORM	3.299	83	264066	11.7491	PPBV	97
47) 2,4-DIMETHYLPENTANE	3.788	57	223185	9.9677	PPBV	97
48) 1,1,1-TRICHLOROETHANE	3.865	97	265767	11.0268	PPBV	99
49) CARBON TETRACHLORIDE	4.283	117	267633	11.1964	PPBV	99
50) 1,2-DICHLOROETHANE	3.704	62	188593	11.2075	PPBV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
 Data File : 7w12289.D
 Acq On : 31 Jan 2025 10:58 am
 Operator : williamc
 Sample : cc405-10
 Misc : MS89099,v7w437,,,,,1
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 21:34:29 2025
 Quant Method : C:\msdchem\1\methods\M7W405.M
 Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
 QLast Update : Sun Dec 29 19:41:17 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) BENZENE	4.174	78	362745	11.0456	PPBV	96
53) CYCLOHEXANE	4.380	84	161087	10.9643	PPBV	93
54) 2,3-DIMETHYLPENTANE	4.634	71	82501	10.6953	PPBV	92
55) TRICHLOROETHENE	5.064	95	175794	11.1212	PPBV	97
56) 1,2-DICHLOROPROPANE	4.833	63	137816	10.2196	PPBV	97
57) DIBROMOMETHANE	4.791	174	152074	10.2387	PPBV	99
58) ETHYL ACRYLATE	4.949	55	288929	10.0834	PPBV	99
59) BROMODICHLOROMETHANE	5.010	83	288053	11.4382	PPBV	100
60) 2,2,4-TRIMETHYLPENTANE	5.158	57	606166	10.1371	PPBV	99
61) 1,4-DIOXANE	5.077	88	89248	10.1258	PPBV	96
62) HEPTANE	5.470	43	202818	9.6513	PPBV	91
63) METHYL METHACRYLATE	5.367	69	138210	10.2333	PPBV	90
64) METHYL ISOBUTYL KETONE	6.097	58	122096	9.7321	PPBV	93
65) CIS-1,3-DICHLOROPROPENE	5.994	75	231517	10.9625	PPBV	94
66) TOLUENE	7.190	91	456779	10.3955	PPBV	100
67) 1,3-DICHLOROPROPANE	7.248	76	233187	11.3631	PPBV	99
68) TRANS-1,3-DICHLOROPROPENE	6.666	75	201842	10.1665	PPBV	94
69) 1,1,2-TRICHLOROETHANE	6.820	83	137182	11.3578	PPBV	97
70) 2-HEXANONE	7.756	58	168485	8.6003	PPBV	94
71) ETHYL METHACRYLATE	7.888	69	230505	9.8168	PPBV	94
72) TETRACHLOROETHENE	8.910	164	192004	11.5328	PPBV	98
73) DIBROMOCHLOROMETHANE	7.720	129	279878	11.0292	PPBV	100
74) 1,2-DIBROMOETHANE	8.061	107	256359	11.5943	PPBV	100
75) OCTANE	9.058	43	281015	9.4382	PPBV	94
77) 1,1,1,2-TETRACHLOROETHANE	10.119	131	207750	11.1451	PPBV	97
78) CHLOROBENZENE	10.109	112	382066	11.2576	PPBV	98
79) ETHYLBENZENE	10.990	91	619384	10.7822	PPBV	99
80) M,P-XYLENE	11.418	91	981251	21.7905	PPBV	98
81) O-XYLENE	12.344	91	506572	11.2009	PPBV	97
82) STYRENE	12.138	104	371594	11.4722	PPBV	99
83) NONANE	13.469	43	307063	9.8845	PPBV	96
84) BROMOFORM	11.225	173	268785	12.0214	PPBV	99
85) 1,1,2,2-TETRACHLOROETHANE	12.360	83	371975	12.3586	PPBV	98
86) 1,2,3-TRICHLOROPROPANE	12.643	75	284563	11.8506	PPBV	100
88) ISOPROPYLBENZENE	13.855	120	188816	10.9281	PPBV	94
89) BROMOBENZENE	13.727	77	354477	11.0057	PPBV	99
90) 2-CHLOROTOLUENE	14.855	126	167333	10.6464	PPBV	100
91) N-PROPYLBENZENE	15.196	120	195349	11.1550	PPBV	99
92) 4-ETHYLTOLUENE	15.643	105	734759	11.6978	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	15.910	105	613630	11.6085	PPBV	98
94) ALPHA-METHYLSTYRENE	16.212	118	304788	11.2900	PPBV	98
95) TERT-BUTYLBENZENE	16.527	134	154118	12.1818	PPBV	98
96) 1,2,4-TRIMETHYLBENZENE	16.537	105	661366	12.4039	PPBV	97
97) BENZYL CHLORIDE	16.627	91	449497	9.5204	PPBV	98
98) M-DICHLOROBENZENE	16.598	146	434052	11.9349	PPBV	100
99) P-DICHLOROBENZENE	16.691	146	444002	12.5437	PPBV	99
100) O-DICHLOROBENZENE	17.009	146	425887	12.4017	PPBV	100
101) SEC-BUTYLBENZENE	16.839	134	196964	12.4931	PPBV	98
102) 1,2,3-TRIMETHYLBENZENE	16.958	105	639528	11.9742	PPBV	98
103) P-ISOPROPYLTOLUENE	17.032	134	216928	12.4122	PPBV	97
104) N-BUTYLBENZENE	17.395	134	212822	12.4635	PPBV	92
105) HEXACHLOROETHANE	17.572	117	233260	11.4665	PPBV	98
106) HEXACHLOROBUTADIENE	18.630	225	351015	13.7407	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.318	180	404513	13.7806	PPBV	99
108) NAPHTHALENE	18.366	128	833081m	12.7872	PPBV	
110) TVHC as equiv Pentane	2.274	TIC	522767	10.0124	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12289.D
Acq On : 31 Jan 2025 10:58 am
Operator : williamc
Sample : cc405-10 Inst : MS7W
Misc : MS89099,V7W437,,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 31 21:34:29 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

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

7.7.36

7

Quantitation Report (QT Reviewed)

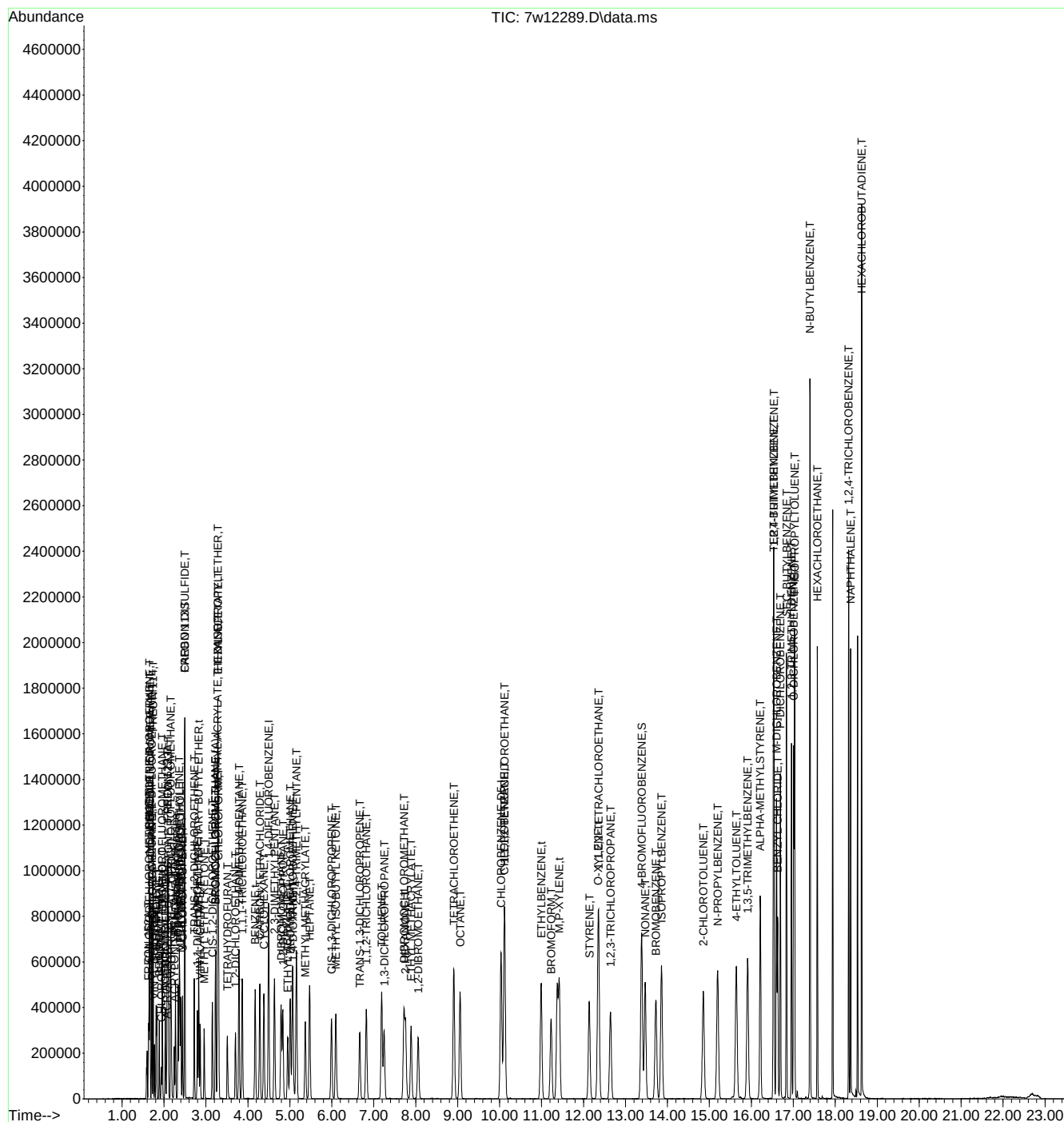
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Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7w437\
Data File : 7w12289.D
Acq On    : 31 Jan 2025  10:58 am
Operator  : williamc
Sample    : cc405-10                               Inst
Misc      : MS89099,v7w437,,,,,1
ALS Vial  : 2      Sample Multiplier: 1

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Inst : MS7W

Quant Time: Jan 31 21:34:29 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



7.7.36

Manual Integration Approval Summary

Sample Number: V7W437-CC405

Method: TO-15

Lab FileID: 7W12289.D

Analyst approved: 01/31/25 16:45 Geralyn Gomez

Injection Time: 01/31/25 10:58

Supervisor approved: 02/01/25 16:52 Kanya Veerawat

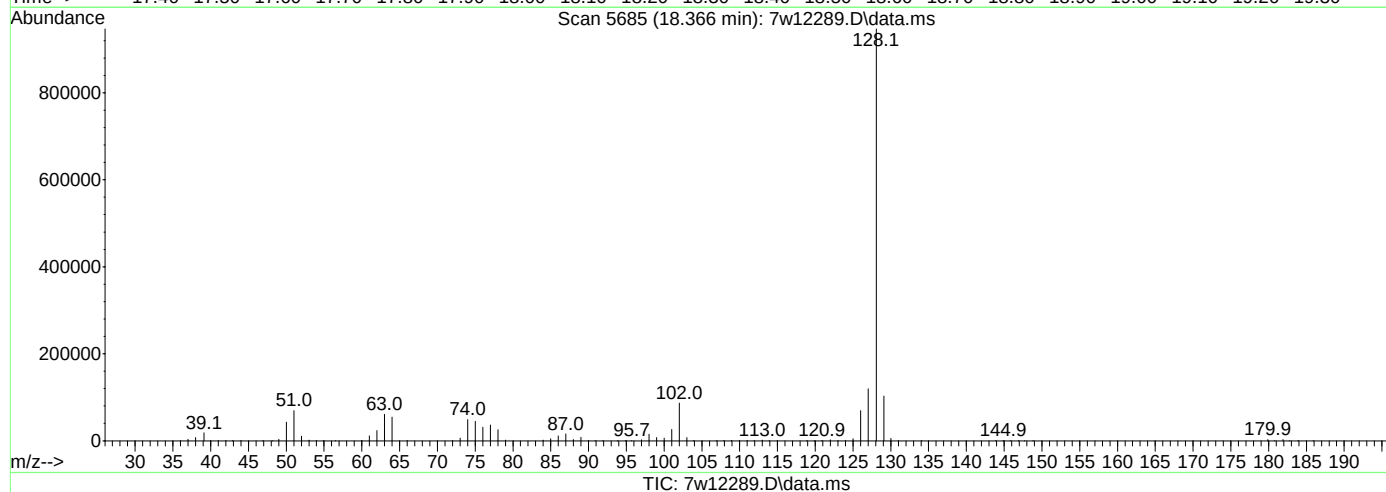
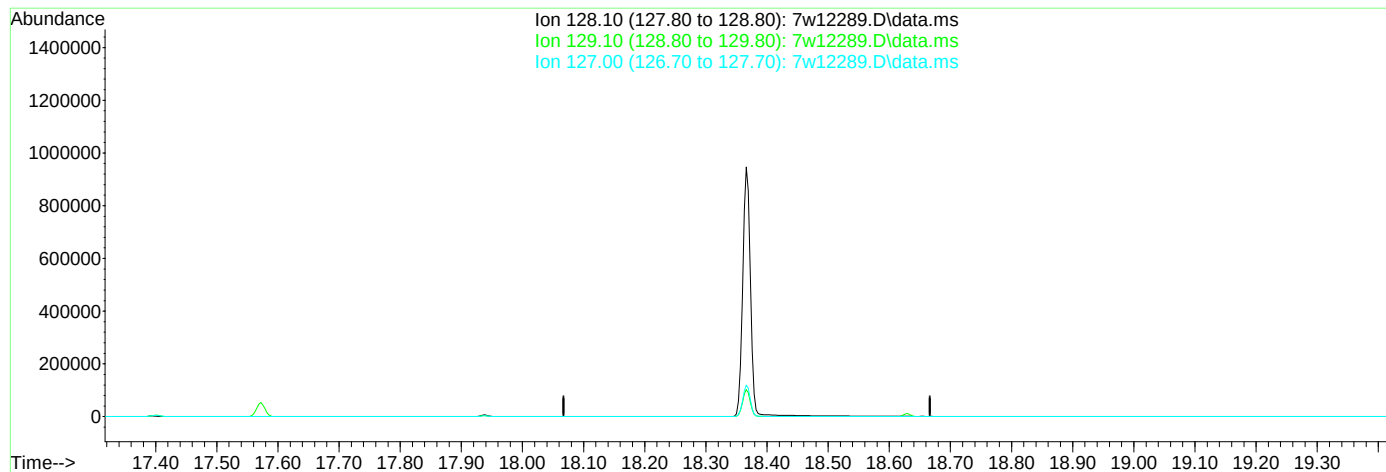
Parameter	CAS	Sig#	R.T. (min.)	Reason
Naphthalene	91-20-3		18.37	Missed peak

7.7.36.1
7

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12289.D
Acq On : 31 Jan 2025 10:58 am
Operator : williamc
Sample : cc405-10
Misc : MS89099,v7w437,,,,,1
ALS Vial : 2 Sample Multiplier: 1
Inst : MS7W

Quant Time: Jan 31 21:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



(108) NAPHTHALENE (T)

18.367min (-18.367) 0.00PPBV

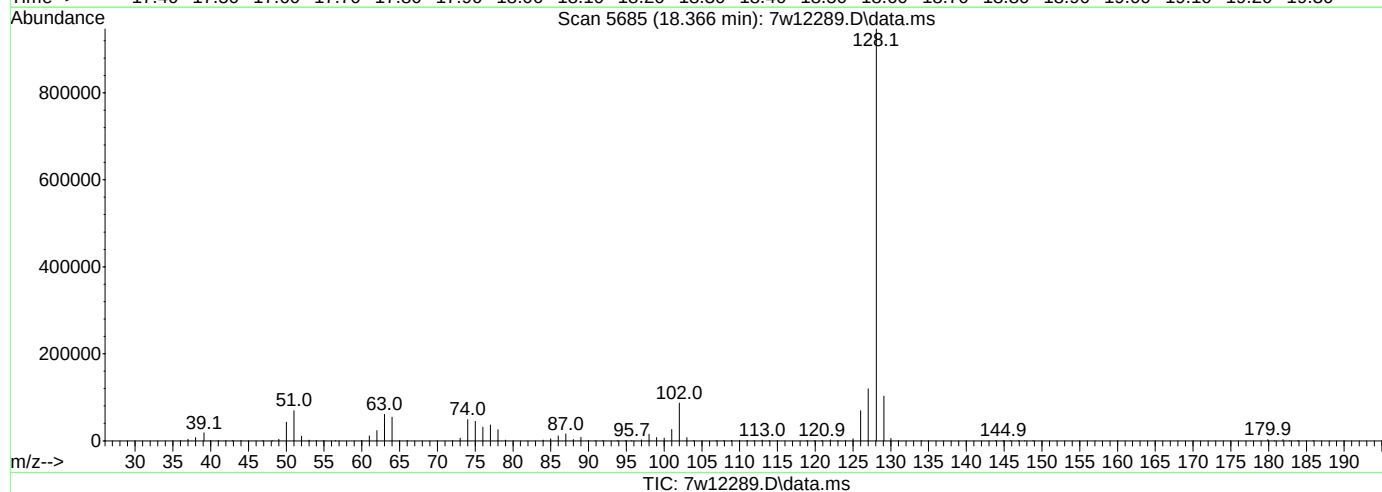
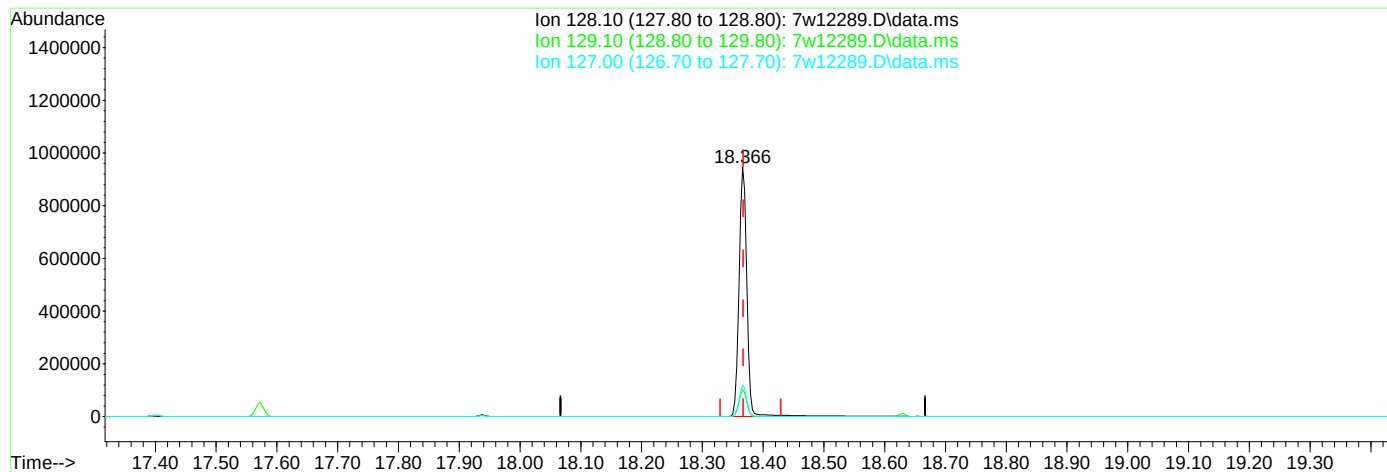
response 0

Ion	Exp%	Act%
128.10	100	0.00
129.10	10.90	0.00#
127.00	12.70	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : X:\Dayton VOA GCMS\geralyng\01-31-2025\V7W437\
Data File : 7w12289.D
Acq On : 31 Jan 2025 10:58 am
Operator : williamc
Sample : cc405-10
Misc : MS89099,v7w437,,,,,1
ALS Vial : 2 Sample Multiplier: 1
Inst : MS7W

Quant Time: Jan 31 21:29:49 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



(108) NAPHTHALENE (T)

18.366min (-0.001) 12.79PPBV m

response 833081

Ion	Exp%	Act%
128.10	100	100
129.10	10.90	0.00#
127.00	12.70	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13219.D
Acq On : 6 Mar 2025 12:29 pm
Operator : williamc
Sample : cc405-10
Misc : MS89682,V7W465,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Inst : MS7W

Quant Time: Mar 08 05:29:17 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

Internal Standards						
1) BROMOCHLOROMETHANE	3.232	128	132830	10.00	PPBV	0.00
52) 1,4-DIFLUOROBENZENE	4.499	114	636524	10.00	PPBV	0.00
76) CHLOROBENZENE-D5	10.035	117	594247	10.00	PPBV	0.00
109) BROMOCHLOROMETHANE (A)	3.232	128	132850	10.00	PPBV	0.00
System Monitoring Compounds						
87) 4-BROMOFLUOROBENZENE	13.386	95	431426	10.01	PPBV	0.00
Target Compounds						
					Qvalue	
3) FREON 152A	1.627	65	71329	11.2764	PPBV	91
4) CHLORODIFLUOROMETHANE	1.637	67	29133	9.0724	PPBV	99
5) CHLOROTRIFLUOROETHENE	1.650	116	171524	11.0888	PPBV	89
6) DICHLORODIFLUOROMETHANE	1.666	85	330324	9.9739	PPBV	97
7) PROPYLENE	1.647	41	92725	10.6375	PPBV	96
8) 1-CHLORO-1,1-DIFLUOROE...	1.704	65	207853	8.4737	PPBV	96
9) FREON 114	1.740	85	278880	10.6157	PPBV	95
10) CHLOROMETHANE	1.711	52	33010	9.6012	PPBV	99
11) VINYL CHLORIDE	1.772	62	120499	10.8464	PPBV	99
12) 1,3-BUTADIENE	1.811	54	95580	10.0971	PPBV	87
13) N-BUTANE	1.827	43	161231	9.3591	PPBV	97
14) BROMOMETHANE	1.885	94	104589	10.5305	PPBV	100
15) CHLOROETHANE	1.933	64	63346	10.5363	PPBV	94
16) DICHLOROFLUOROMETHANE	1.959	67	232779	9.9390	PPBV	97
17) ACETONITRILE	2.026	41	96156	9.0068	PPBV	97
18) ACRYLONITRILE	2.065	56	56232	10.0284	PPBV	96
19) FREON 123	2.081	83	267969	10.6025	PPBV	96
20) FREON 123A	2.097	117	169439	10.7676	PPBV	96
21) TRICHLOROFLUOROMETHANE	2.161	101	279801	9.5933	PPBV	99
22) ISOPROPYL ALCOHOL	2.180	45	240768	9.7843	PPBV	98
23) ACETONE	2.103	58	64886	8.4076	PPBV	70
24) PENTANE	2.277	42	120768	10.2173	PPBV	93
25) IODOMETHANE	2.338	142	312995	11.7096	PPBV	93
26) 1,1-DICHLOROETHYLENE	2.367	96	117482	10.2005	PPBV	86
27) CARBON DISULFIDE	2.499	76	294117m	10.2545	PPBV	
28) ETHANOL	1.965	45	59253	8.7961	PPBV	99
29) BROMOETHENE	2.036	106	111265	10.5153	PPBV	96
30) ACRYLONITRILE	2.248	52	86484	9.0541	PPBV	96
31) METHYLENE CHLORIDE	2.402	84	101279	9.6333	PPBV	91
32) 3-CHLOROPROPENE	2.444	76	51317	9.3825	PPBV	83
33) FREON 113	2.499	151	195082	11.1868	PPBV	92
34) TRANS-1,2-DICHLOROETHENE	2.727	96	120282	10.0321	PPBV	90
35) TERTIARY BUTYL ALCOHOL	2.380	59	221916	7.8415	PPBV	94
36) METHYL TERTIARY BUTYL ...	2.833	73	318364	9.2855	PPBV	98
37) TETRAHYDROFURAN	3.515	72	58349	10.9822	PPBV	99
38) HEXANE	3.283	57	231831	10.5974	PPBV	90
39) VINYL ACETATE	2.868	86	31090	9.5806	PPBV	97
40) 1,1-DICHLOROETHANE	2.801	63	232041	10.8164	PPBV	99
41) METHYL ETHYL KETONE	2.962	72	63808	10.8124	PPBV	95
42) CIS-1,2-DICHLOROETHENE	3.158	96	134814	10.9166	PPBV	97
43) DIISOPROPYL ETHER	3.286	59	64410	10.6315	PPBV	97
44) ETHYL ACETATE	3.293	61	46501	11.0943	PPBV	89
45) METHYL ACRYLATE	3.280	55	265814	10.8154	PPBV #	99
46) CHLOROFORM	3.306	83	251952	10.3776	PPBV	97
47) 2,4-DIMETHYLPENTANE	3.791	57	268470	11.0997	PPBV	98
48) 1,1,1-TRICHLOROETHANE	3.872	97	252593	9.7019	PPBV	99
49) CARBON TETRACHLORIDE	4.290	117	266284	10.3126	PPBV	97
50) 1,2-DICHLOROETHANE	3.708	62	174540	9.6021	PPBV	98

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13219.D
Acq On : 6 Mar 2025 12:29 pm
Operator : williamc
Sample : cc405-10 Inst : MS7W
Misc : MS89682,v7w465,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 05:29:17 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) BENZENE	4.177	78	382183	10.7732	PPBV	98
53) CYCLOHEXANE	4.386	84	171265	11.3883	PPBV	95
54) 2,3-DIMETHYLPENTANE	4.637	71	86937	11.0106	PPBV	93
55) TRICHLOROETHENE	5.068	95	177198	10.9516	PPBV	97
56) 1,2-DICHLOROPROPANE	4.836	63	156115	11.3097	PPBV	94
57) DIBROMOMETHANE	4.798	174	172452	11.3431	PPBV	88
58) ETHYL ACRYLATE	4.952	55	323522	11.0304	PPBV	100
59) BROMODICHLOROMETHANE	5.016	83	274142	10.6349	PPBV	99
60) 2,2,4-TRIMETHYLPENTANE	5.161	57	716398	11.7044	PPBV	99
61) 1,4-DIOXANE	5.084	88	96717	10.7203	PPBV	97
62) HEPTANE	5.473	43	246304	11.4504	PPBV	97
63) METHYL METHACRYLATE	5.370	69	142086	10.2778	PPBV	96
64) METHYL ISOBUTYL KETONE	6.100	58	139415	10.8564	PPBV	91
65) CIS-1,3-DICHLOROPROPENE	5.994	75	225387	10.4262	PPBV	91
66) TOLUENE	7.193	91	477483	10.6162	PPBV	100
67) 1,3-DICHLOROPROPANE	7.251	76	229020	10.9028	PPBV	99
68) TRANS-1,3-DICHLOROPROPENE	6.669	75	188478	9.2746	PPBV	91
69) 1,1,2-TRICHLOROETHANE	6.826	83	140366	11.3536	PPBV	98
70) 2-HEXANONE	7.762	58	191091	9.5294	PPBV	88
71) ETHYL METHACRYLATE	7.894	69	233362	9.7094	PPBV	97
72) TETRACHLOROETHENE	8.913	164	201114	11.8015	PPBV	95
73) DIBROMOCHLOROMETHANE	7.720	129	299448	11.5284	PPBV	99
74) 1,2-DIBROMOETHANE	8.064	107	266993	11.7969	PPBV	100
75) OCTANE	9.061	43	340679	11.1783	PPBV	97
77) 1,1,1,2-TETRACHLOROETHANE	10.125	131	212347	11.1805	PPBV	96
78) CHLOROBENZENE	10.113	112	409528	11.8431	PPBV	96
79) ETHYLBENZENE	10.990	91	634146	10.8346	PPBV	97
80) M,P-XYLENE	11.418	91	976799	21.2895	PPBV	97
81) O-XYLENE	12.347	91	495488	10.7527	PPBV	97
82) STYRENE	12.135	104	396146	12.0035	PPBV	97
83) NONANE	13.469	43	352683	11.1426	PPBV	97
84) BROMOFORM	11.228	173	289553	12.7101	PPBV	98
85) 1,1,2,2-TETRACHLOROETHANE	12.363	83	367780	11.9927	PPBV	97
86) 1,2,3-TRICHLOROPROPANE	12.643	75	268566	10.9771	PPBV	100
88) ISOPROPYLBENZENE	13.858	120	204692	11.6274	PPBV	91
89) BROMOBENZENE	13.723	77	336572	10.2561	PPBV	90
90) 2-CHLOROTOLUENE	14.855	126	184170	11.5004	PPBV	100
91) N-PROPYLBENZENE	15.199	120	213001	11.9375	PPBV	98
92) 4-ETHYLTOLUENE	15.640	105	731014	11.4224	PPBV	98
93) 1,3,5-TRIMETHYLBENZENE	15.913	105	604708	11.2277	PPBV	96
94) ALPHA-METHYLSTYRENE	16.215	118	316445	11.5045	PPBV	99
95) TERT-BUTYLBENZENE	16.527	134	152527	11.8326	PPBV	98
96) 1,2,4-TRIMETHYLBENZENE	16.537	105	612620	11.2766	PPBV	94
97) BENZYL CHLORIDE	16.627	91	408974	8.5015	PPBV	98
98) M-DICHLOROBENZENE	16.598	146	433127	11.6887	PPBV	98
99) P-DICHLOROBENZENE	16.691	146	440723	12.2203	PPBV	98
100) O-DICHLOROBENZENE	17.006	146	410204	11.7236	PPBV	98
101) SEC-BUTYLBENZENE	16.836	134	189645	11.8059	PPBV	97
102) 1,2,3-TRIMETHYLBENZENE	16.955	105	586573	10.7791	PPBV	97
103) P-ISOPROPYLTOLUENE	17.029	134	205518	11.5413	PPBV	98
104) N-BUTYLBENZENE	17.392	134	200864	11.5451	PPBV	96
105) HEXACHLOROETHANE	17.572	117	237169	11.4425	PPBV	93
106) HEXACHLOROBUTADIENE	18.630	225	327344	12.5765	PPBV	100
107) 1,2,4-TRICHLOROBENZENE	18.318	180	361928	12.1013	PPBV	98
108) NAPHTHALENE	18.366	128	746070	11.2393	PPBV	99
110) TVHC as equiv Pentane	2.277	TIC	563120	9.9828	PPBV	100

Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13219.D
Acq On : 6 Mar 2025 12:29 pm
Operator : williamc
Sample : cc405-10 Inst : MS7W
Misc : MS89682,V7W465,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 05:29:17 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration

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

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

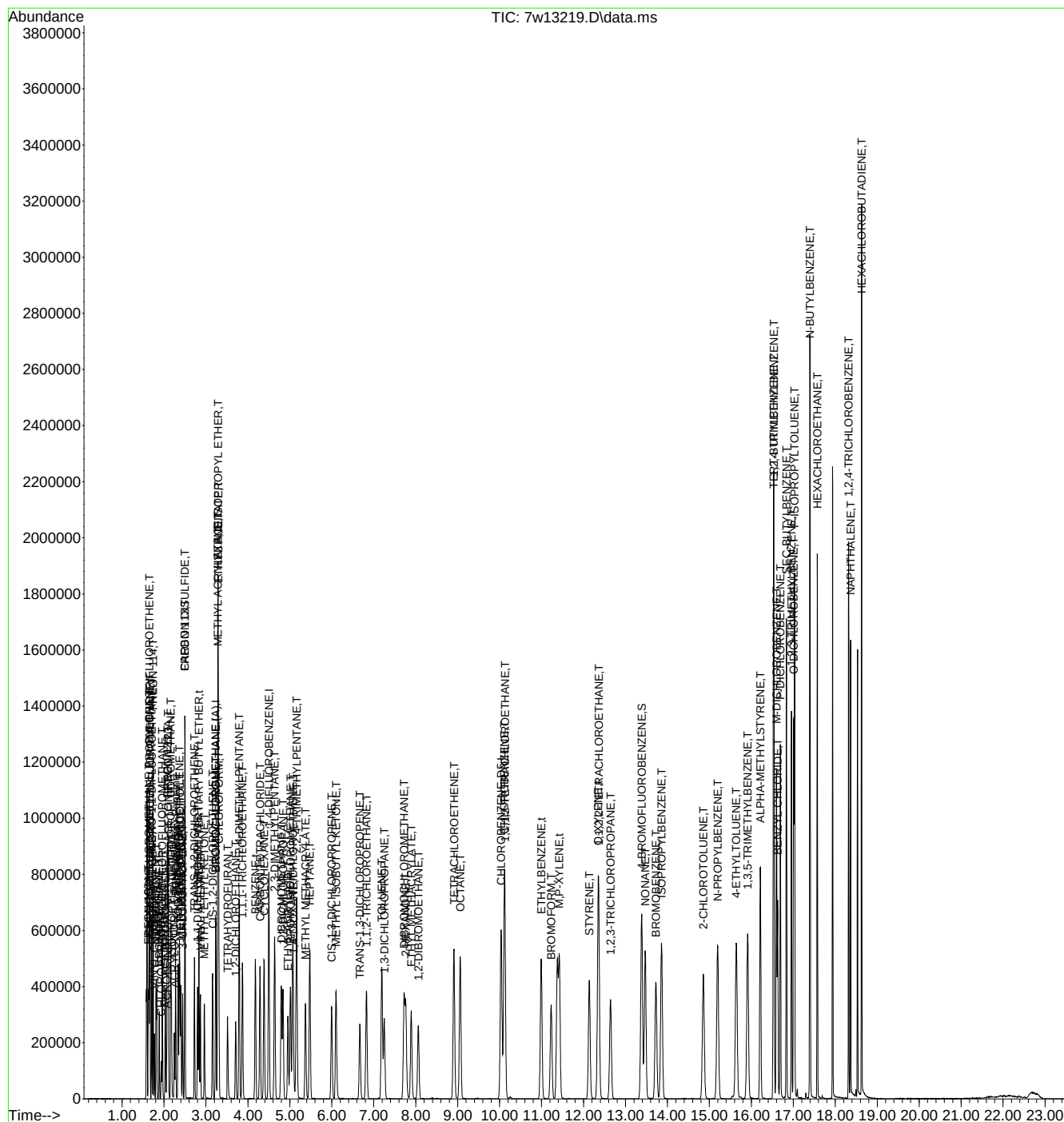
7.7.37

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Quantitation Report (QT Reviewed)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13219.D
Acq On : 6 Mar 2025 12:29 pm
Operator : williamc
Sample : cc405-10 Inst : MS7W
Misc : MS89682,V7W465,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 05:29:17 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



7.7.37

Manual Integration Approval Summary

Sample Number: V7W465-CC405

Method: TO-15

Lab FileID: 7W13219.D

Analyst approved: 03/08/25 00:32 Michaela Balido

Injection Time: 03/06/25 12:29

Supervisor approved: 03/08/25 00:37 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon disulfide	75-15-0		2.50	Missed peak

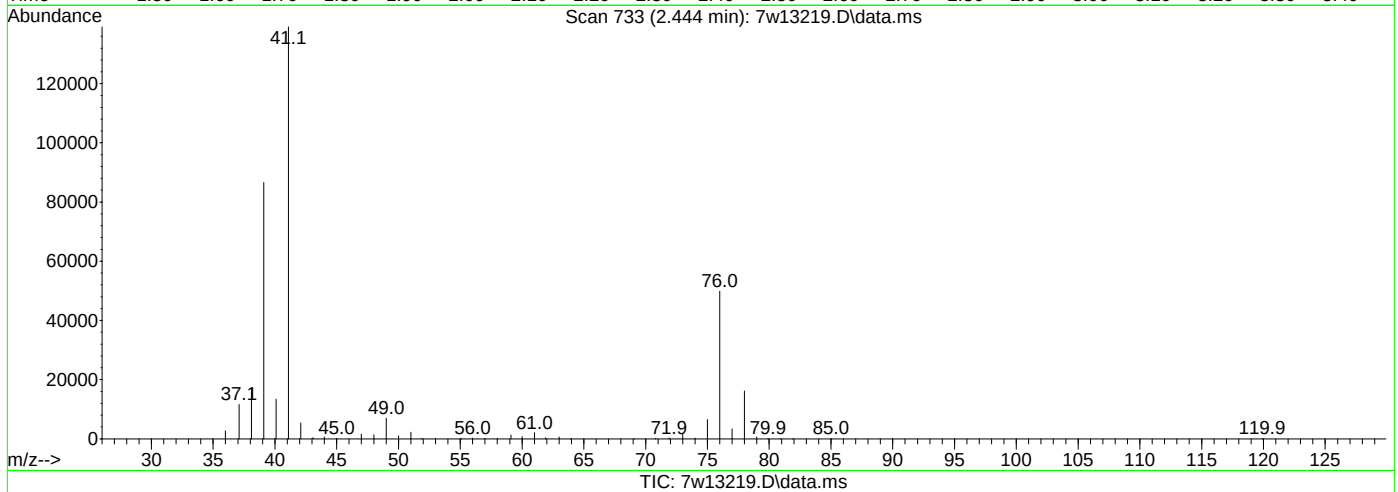
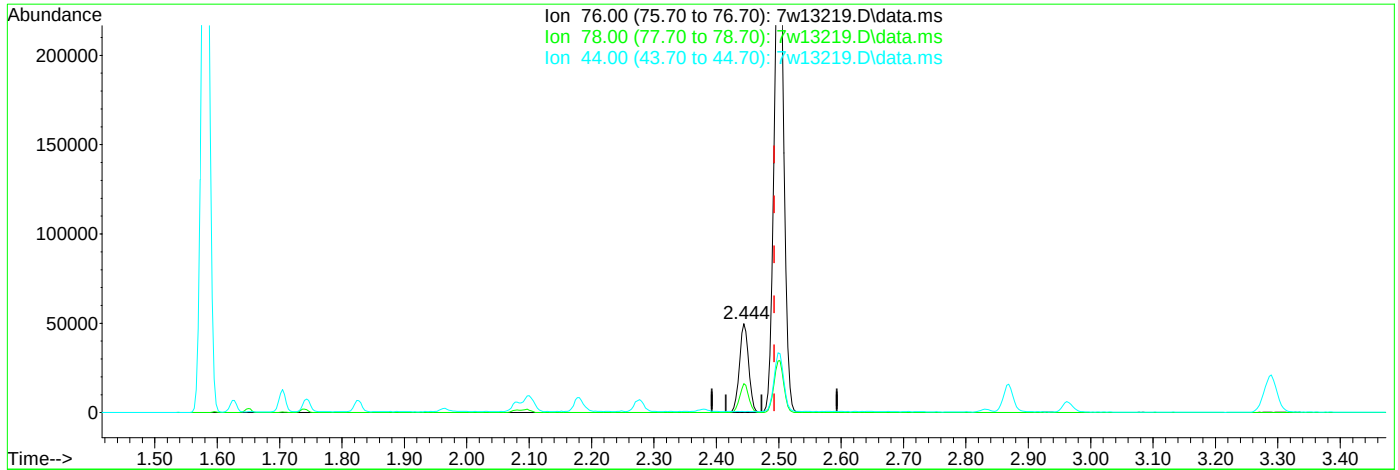
7.7.37.1
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Quantitation Report (Qedit)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13219.D
Acq On : 6 Mar 2025 12:29 pm
Operator : williamc
Sample : cc405-10
Misc : MS89682,v7w465,,,,,1
ALS Vial : 1 Sample Multiplier: 1

Inst : MS7W

Quant Time: Mar 07 16:49:23 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



(27) CARBON DISULFIDE (T)

2.444min (-0.049) 1.79PPBV

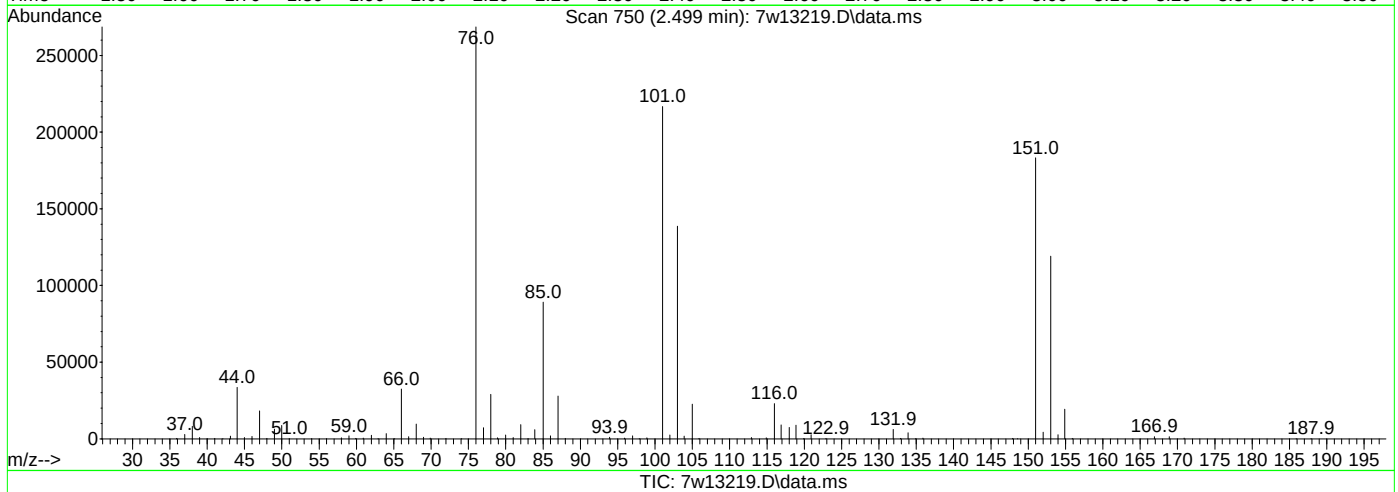
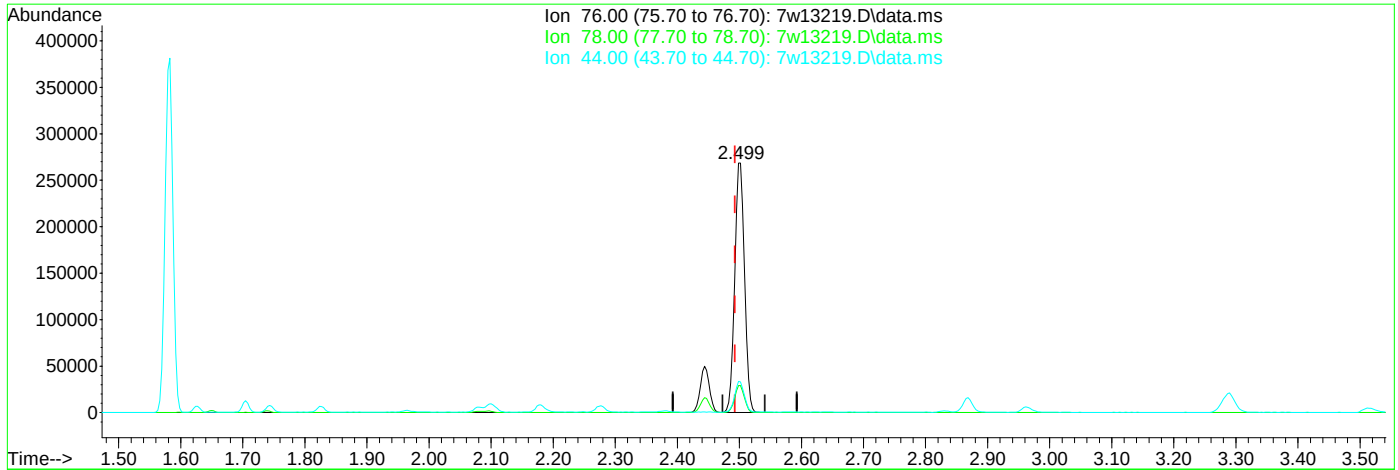
response 51316

Ion	Exp%	Act%
76.00	100	100
78.00	11.20	32.11#
44.00	16.10	0.26#
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : R:\MSAIR\Done\2025\3. March\07-Mar 2025\V7W465\
Data File : 7w13219.D
Acq On : 6 Mar 2025 12:29 pm
Operator : williamc
Sample : cc405-10
Misc : MS89682,v7w465,,,,,1
ALS Vial : 1 Sample Multiplier: 1
Inst : MS7W

Quant Time: Mar 07 16:49:23 2025
Quant Method : C:\msdchem\1\methods\M7W405.M
Quant Title : T015 by GCMS w/DB-1, 30m X 0.25mm ID X 0.5 um
QLast Update : Sun Dec 29 19:41:17 2024
Response via : Initial Calibration



(27) CARBON DISULFIDE (T)

2.499min (+0.006) 10.25PPBV m

response 294117

Ion	Exp%	Act%
76.00	100	100
78.00	11.20	5.60#
44.00	16.10	0.05#
0.00	0.00	0.00

Batch ID: V5W2144
Date: 1/8/2025
Laboratory Analyst: Thomas Hilbig
Columns: Rxs-1 (60µm x 0.32mm x 1.0µm)
GC/MS Method: 5W2015.M
Sequence File: 5W20250108.S
Initial Calibration Method: M5W2144.M
Concentrator Method: 5W2015C.CTD3
Data Validator(s): Thomas Hilbig

Standard Information			Concentration (ppb)
Description	SN	Lot Number	Expiration Date
Internal/Spillage	A1739	ASI 0298	5/31/2025
To-15 STD	A1789	ASI 0345	5/7/2025
To-15 STD	A2015	ASI 0345	5/7/2025
To-15 STD	A2015	ASI 0345	5/7/2025
To-15 LCS	A967	ASI 0539	2/6/2025
To-15 LCS (Stock)	CC-3059/26	ASI 0352	6/12/2025
To-15 STD (Stock)	CC-2672/82	ASI 0351	6/12/2025

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

[illegible]

Definition: $\text{Final Canister Dilution Factor (DF)} = (\text{Original Canister DF}) \times (\text{Secondary Canister DF})$

$$\text{Dilution Factor at Instrument} = \text{Final Canister Dilution Factor} \times [\text{Nominal Sampling Volume (cc)} / \text{Sample Volume Injected (cc)}]$$

Example: Original Canister is diluted 2X for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is $2 \times 10 = 20$. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution multiplier of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:



MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	SN	Lot Number	Expiration Date	Concentration (ppbv)
Internal/Suprogate	A1739	ASI0551	12/17/2025	100
TO-15 STD	A1791	ASI0561	2/22/2025	50
TO-15 STD (Stock)	CC-267282	ASI0351	6/12/2025	1000

Batch ID: V5W2165
Date: 1/30/2025
Laboratory Analyst: Thomas Hibbig
Columns: Rte-1 (60m x 0.32mm x 1.0um)
GCMS Method: SWTO15.M
Sequence File: SW20250130.S
Initial Calibration Method: SWTO15.M
Data Validator(s): Michael Baldo
Data Validator(s): Geraldyn Gomez

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQ004.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (G)		Dilution	TICS	Areas IS SS		STATUS	COMMENTS

Batch ID: V3W2187
Date: 2/22/2025
Laboratory Analyst: Benjamin Kim
Columns: Rst-1 (60u x 0.32mm x 1.0um)
GCMS Method: SWTO15.M
Sequence File: SW20250122.S
Initial Calibration Method: NEW20187.M
Concentrator Method: SWTO15C.CTD3
Data Validator(s): Benjamin Kim
Data Validator(s):

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas	STATUS	COMMENTS
1-5	1b	5w57016			A1795	20			IS	-	
1-4	1b	5w57017			A2041	20				-	
1-3	1b	5w57018			A1803	20				-	
1-2	1b	5w57019			A970	20				-	
1-1	0.0.0	5w57020			A2039	0				-	
1-1	0.0.0	5w57021			A2039	0				-	
1-1	0.0.0	5w57022			A2039	0				-	
1-1	1st only	5w57023			A2039	0				-	
1-1	1st only	5w57024			A2039	0				-	
1-1	1st only	5w57025			A2039	0				-	
1-1	1b	5w57026			A2039	400				-	
1-1	1b	5w57027			A2039	400				-	
1-1	1b	5w57028			A2039	400				-	
1-2	1b	5w57029			A2039	400				-	
1-2	1b	5w57030			A970	20				OK	
1-2	1b	5w57031			A970	100				OK	
1-2	1b	5w57032			A970	200				OK	
1-2	1b	5w57033			A970	500				NOT USED	Method Development
1-2	1b	5w57034			A2039	400				NOT USED	Method Development
1-1	1b	5w57035			A2039	400				-	
1-1	1b	5w57036			A1803	10				-	
1-3	1c2187-0.1	5w57037			A1803	20				NOT USED	Method Development
1-3	1c2187-0.2	5w57038			A1803	50				OK	
1-3	1c2187-0.5	5w57039			A1803	500				NOT USED	Method Development
1-1	1b	5w57040			A2039	400				-	
1-1	1b	5w57041			A2039	400				-	
1-1	1b	5w57042			A2041	5				RR	Bad Injection
1-4	1c2187-0.5	5w57043			A2041	50				OK	
1-4	1c2187-10	5w57044			A2041	100				OK	
1-4	1c2187-20	5w57045			A2041	200				OK	
1-4	1c2187-40	5w57046			A2041	400				OK	
1-4	1c2187-50	5w57047			A2041	500				OK	
1-1	1b	5w57048			A2039	400				-	
1-1	1b	5w57049			A2039	400				-	
1-5	1b	5w57050			A1795	100				-	
1-5	1b	5w57051			A1795	100				-	
1-1	1b	5w57052			A2039	400				-	
1-1	1b	5w57053			A2039	400				-	
1-1	1b	5w57054			A2039	400				-	Past BFB Tune Time
1-1	1b	5w57055			A2039	400				-	
1-1	1b	5w57056			A2039	400				-	
1-1	1b	5w57057			A2039	400				-	
1-1	1b	5w57058			A2039	400				-	
1-4	1c2187-0.5	5w57059			A2041	5				OK	
1-1	1b	5w57060			A2039	400				-	
1-5	1c2187-10	5w57061			A1795	100				OK	

[illegible]



MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	SN	Lot Number	Expiration Date	Concentration (ppbv)
Internal/Suprogate	A1739	ASI10551	12/17/2025	100
TO-15 STD	A970	ASI10580	3/5/2025	0.40
TO-15 STD	A1803	ASI10578	3/4/2025	4.00
TO-15 STD	A2463	ASI10568	3/2/2025	40
TO-15 STD	CC-245926	ASI10552	6/12/2025	400
TO-15 STD (Stock)	CC-267282	ASI10551	6/12/2025	1000

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP IQ004.

Batch ID: V5W2187
Date: 2/22/2025
Laboratory Analyst: Benjamin Kim
Columns: Rte-1 (60m x 0.32mm x 1.0um)
GCMS Method: SWTO15.M
Sequence File: SW202502122.S
Initial Calibration Method: SWTO15.M
Current Calibration Method: SWTO15C.CTD3
Data Validator(s): Benjamin Kim
Data Validator(s):

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)		Dilution	TICS		Areas		STATUS	COMMENTS
						IS	SS		IS	SS				

Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF) Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]														
Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc neoblean and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.														
Notes:														



MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	SN	Lot Number	Expiration Date	Concentration (ppbv)
Internal/Suprogate	A1739	ASI10551	12/17/2025	100
TO-15 STD	A1798	ASI10575	3/3/2025	40.00
TO-15 STD (Stock)	CC-267282	ASI10551	6/12/2025	1000

Batch ID: V5W2193
Date: 3/3/2025
Laboratory Analyst: Thomas Hibig
Columns: Rte-1 (60m x 0.32mm x 1.0um)
GCMS Method: SWTO15.M
Sequence File: SW20250303.S
Initial Calibration Method: SWTO15.M
Current Calibration Method: SWTO15.M
Data Validator(s): Krisel Valladolid
Data Validator(s): Automette Clutario

Mannally integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS		STATUS	COMMENTS
								IS	SS		
Dilution Factor at Instrument = Final Canister Dilution Factor x (Nominal Sampling Volume (cc) / Sample Volume Injected (cc))											
Original Canister is diluted 2x. For manual sample draw, 75cc from this canister is added to a 14.7 cc (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.											
Notes:											



MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	SN	Lot Number	Expiration Date	Concentration (ppbv)
Internal/Suprogate	A1739	ASI10551	12/17/2025	100
TO-15 STD	A981	ASI10590	4/4/2025	40.00
TO-15 STD (Stock)	CC-267282	ASI10551	6/12/2025	1000

Batch ID: V5W2194
Date: 3/4/2025
Laboratory Analyst: Thomas Hibig
Columns: Rte-1 (60m x 0.32mm x 1.0um)
GCMS Method: SW20250304.S
Sequence File: SW20250304.S
Initial Calibration Method: SW20250304.S
Container: SW20250304.S
Container ID: SW20250304.S
Data Validator(s): Antonette Clutario
Data Validator(s):

Manually integrated chromatographic peaks have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (cc)	Dilution	TICS	Areas IS	SS	STATUS	COMMENTS
Definition: Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF) Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]												
Example: Original Canister is diluted 2x for manual sample draw. 25cc from this canister is added to a 750cc canister and brought to 14.7 mg (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.												
Notes												

Batch ID: V5W2196
Date: 3/6/2025
Laboratory Analyst: Thomas Hilbig
Culmense: Rascal (60mm x 0.32mm x 1.0um)
GC/MS Method: SW2015.05.M
Sequence File: SW20250306.S
Initial Calibration Method: MSW2187.M
Concentrator Method: SW2015C.CT.D3
Data Validator(s): Kristel Valladolid
Data Validator(s): Geraldyn Gomez
Data Validator(s): Antonette Clutario

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

CANISTER SECONDARY DILUTION LOG

7.8.6



MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	SN	Lot Number	Expiration Date	Concentration (ppbv)
Internal/Suprogate	A1739	ASI10551	12/17/2025	100
TO-15 STD	A081	ASI10590	4/4/2025	40.00
TO-15 STD (Stock)	CC-267282	ASI10551	6/12/2025	1000

Batch ID: V5W2196
Date: 3/6/2025
Laboratory Analyst: Thomas Hibig
Columns: Rtx-1 (60m x 0.32mm x 1.0m)
GCMS Method: SWTO15.M
Sequence File: SW20250306.S
Concentration Method: MSW2187.M
Initial Calibration Method: SWTO15C.C1.D3
Data Validator(s): Kristel Stadelhof
Data Validator(s): Kristel Stadelhof
Data Validator(s): Kristel Stadelhof
Data Validator(s): Antonette Chutario

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA04.

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volumes (cc)	Dilution	TICS	Areas		STATUS	COMMENTS
									IS	SS		
Final Canister Dilution Factor (DF) = (Original Canister DF) x (Secondary Canister DF) Dilution Factor at Instrument = Final Canister Dilution Factor x [Nominal Sampling Volume (cc) / Sample Volume Injected (cc)]												
Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc canister and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.												
Notes:												



Batch ID: V7W405
Date: 12/28/2024
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GC/MS Method: 7WVTO15SP.LIT.M
Sequence File: 7WVTO152.L28.S
Initial Calibration Method: M7W405.M
Concentrator Method: 7WVTO15D.7200A.CTD
Data Validator(s): Benjamin Kim

Standard Information				Concentration (ppb)
Description	SN	Lot Number	Expiration Date	
Internal/Spill/leak	1738	ASI 02098	5/31/2025	100
TO-15 STD	A1867	ASI 06529	1/28/2025	0.5
TO-15 STD	A1868	ASI 06530	1/28/2025	50
TO-15 STD	A1869	ASI 06532	1/18/2025	50
TO-15 LCS	A1795	ASI 05097	12/29/2024	50
TO-15 LCS (Stuck)	CC-3059/26	ASI 03552	6/12/2025	1000
TO-15 STD (Stuck)	CC-2672/82	ASI 03551	6/12/2025	1000

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

[illegible][illegible]

Definition:

$\text{Final Canister Dilution Factor (DF)} = (\text{Original Canister DF}) \times (\text{Secondary Canister DF})$ $\text{Dilution Factor at Instrument} = \text{Final Canister Dilution Factor} \times [\text{Nominal Sampling Volume (cc) / Sample Volume Injected (cc)}]$



MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	SN	Lot Number	Expiration Date	Concentration (ppbv)
Internal/Suprogate	1738	ASI10298	5/31/2025	100
TO-15 STD	A1787	ASI10529	1/28/2025	0.5
TO-15 STD	A966	ASI10528	1/27/2025	5.0
TO-15 STD	A1805	ASI10522	1/18/2025	50
TO-15 STD (Stock)	CC-205926	ASI10522	6/12/2025	1000
TO-15 STD (Stock)	CC-267282	ASI10521	6/12/2025	1000

Batch ID: V7W405
Date: 12/28/2024
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: W7TO15SP.LITM
Sequence File: W7TO241228.S
Initial Calibration Method: W7TO15SP.LITM
Current Calibration Method: W7TO15SP.LITM
Current Standard: W7TO15D7200A.CTD
Data Validator(s): Benjamin Kim

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQ004:

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister		Injection Volume (cc)	Dilution	TICS		Areas		STATUS	COMMENTS
					SN				IS	SS				
Example: Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc methanol and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. The final canister dilution factor is 2 x 10 = 20. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.														
Notes:														

Standard Information

Batch ID: V7W425
Date: 1/18/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GC MS Method: TW7015SP.IT.M
Sequence File: MW20250118.S
Initial Calibration Method: MW7405.M
Concentrator Method: TW7015D7V200.AC.TD
Data Validator(s): Kristel Valladolid
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQA044.

CANISTER SECONDARY DILUTION LOG

Definition: $\text{Final Canister Dilution Factor (DF)} = (\text{Original Canister DF}) \times (\text{Secondary Canister DF})$

$$\text{Dilution Factor at Instrument} = \text{Final Canister Dilution Factor} \times \frac{\text{Nominal Sampling Volume (cc)}}{\text{Sample Volume Injected (cc)}}$$

Original Canister is diluted 2x for manual sample draw. 75cc from this canister is added to a 375cc minican and brought to 14.7 psig (750cc equivalent volume). This results in an additional dilution of 750/75 or 10. From the dilution canister, 20cc is injected at the instrument where normal volume is 400cc. This is an additional instrument dilution factor of 20. The final dilution multiplier is 20 (from canister dilution) and 20 (from instrument dilution) = 400.

Notes:



MS AIR by GCMS ANALYSIS LOG

Standard Information				
Description	SN	Lot Number	Expiration Date	Concentration (ppbv)
Internal/Suprogate	1738	ASI10551	12/17/2025	100
TO-15 STD	A974	ASI10536	2/6/2025	40
TO-15 STD (Stock)	CC-267282	ASI10551	6/12/2025	1000

Batch ID: V7W425
Date: 1/18/2025
Laboratory Analyst: Benjamin Kim
Column DB-1: 30m x 0.25mm x 0.5um
GCMS Method: 7WTO15SP.LITM
Sequence File: 7W20250118.S
Initial Calibration Method: 7WTO15SP.LITM
Current Calibration Method: 7WTO15SP.LITM
Data Validator(s): Kristel Valladolid
Data Validator(s):

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of SGS SOP EQ004:

ALS	Sample ID	Data File ID	MS Code	TEST CODE	Canister SN	Injection Volume (µl)	Dilution	TICS	Areas		STATUS	COMMENTS
									IS	SS		



Description		SN	Lot Number	Expiration Date	Concentration (ppbv)
Internal/Surrogate		1738	AS10551	12/17/2025	100
TO15STD		A981	AS10538	2/6/2025	40
TO-15 STD (Stocks)		CC-267282	AS10351	6/12/2025	1000

[illegible][illegible]

Attachment E.
Data Usability Summary Report

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**DATA USABILITY SUMMARY REPORT
SULPHUR SPRINGS ROAD, BINGHAMTON, NEW YORK**

Client: EA Engineering, Syracuse, New York
SDG: JE5976
Laboratory: SGS North America Inc., Dayton, New Jersey
Site: Sulphur Springs Road, Binghamton, New York
Date: May 8, 2025

EDS ID	Client ID	Laboratory ID	Matrix
1	754020-IA-1-2182025	JE5976-01	Air
2	754020-SS-1-20250218	JE5976-02	Air
3	754020-IA-2-2182025	JE5976-03	Air
4	754020-SS-2-20250218	JE5976-04	Air
5	754020-IA-3-2182025	JE5976-05	Air
6	754020-DUP-1-2182025	JE5976-06	Air
7	754020-SS-3-20250218	JE5976-07	Air
8	754020-IA-4-2182025	JE5976-08	Air
9	754020-CS-4-20250218	JE5976-09	Air
10	754020-OA 1 2182025	JE5976-10	Air
11	754020-IA-5-2182025	JE5976-11	Air
12	754020-DUP-2-2182025	JE5976-12	Air
13	754020-SS-5-20250218	JE5976-13	Air
14	754020-SS-6-20250218	JE5976-14	Air
15	754020-IA-6-2182025	JE5976-15	Air

A Data Usability Summary Review was performed on the analytical data for fifteen air samples collected on February 18-19, 2025 by HRP at the Sulphur Springs Road site in Binghamton, New York. The samples were analyzed under "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition January 1999, EPA/625/R-96/010B", Compendium Method TO-15, "Determination of Volatile Organic Compounds (VOCs) in Air Collected in Specially-Prepared Canisters and Analyzed by Gas Chromatography/Mass Spectrometry (GC/MS)".

Specific method references are as follows:

Analysis
VOCs

Method References
USEPA Method TO-15

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-31, Revision 6, September 2016: Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Cover letter, Narrative, and Data Reporting Forms
- Canister Certification Blanks
- Canister Certification Pressures Differences
- Chains-of-Custody and Traffic Reports
- Holding Times and sample preservation
- Laboratory Control Sample (LCS) recoveries
- GC/MS Tuning
- Method Blank Contamination
- Initial and Continuing Calibration Summaries
- Compound Quantitation
- Internal Standard (IS) Area Performance
- Field Duplicate Sample Precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contamination and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Cover letter, Narrative, and Data Reporting Forms

- All criteria were met.

Canister Certification Blanks

- The batch blank checks were non-detect or < RL.

Canister Certification Pressures Differences

- All criteria were met.

Chains-of-Custody and Traffic Reports

- All criteria were met.

Holding Times

- All samples were analyzed within 30 days for air samples.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

GC/MS Tuning

- All criteria were met.

Method Blank

- The method blanks were free of contamination.

Initial Calibration

- All %RSD and mean RRF criteria were met.

Continuing Calibration

- The continuing calibrations exhibited acceptable %D and RRF values.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Field Duplicate Sample Precision

- Field duplicate results are summarized below. The precision was unacceptable for ethyl acetate in one field duplicate pair. This result was qualified as estimated (J).

Compound	754020-IA-3-2182025 ug/m3	754020-DUP-1-2182025 ug/m3	RPD	Qualifier
Acetone	1390	3180	78%	None
Benzene	0.89	1.2	30%	
Chloromethane	1.6	1.6	0%	
Cyclohexane	2.5	5.2	70%	
Dichlorodifluoromethane	2.7	2.7	0%	
Ethanol	33.7	32.2	5%	
Ethylbenzene	1.1	1.5	31%	
Ethyl Acetate	0.47	50.4	196%	
4-Ethyltoluene	0.59	1.4	81%	J None
Heptane	32	79.5	85%	
Hexane	2.3	3.5	41%	
Isopropyl Alcohol	1.5	2.5	50%	
Methylene Chloride	0.80	1.3	48%	
Methyl ethyl ketone	0.68	0.68	0%	
1,2,4-Trimethylbenzene	1.9	4.9	88%	
1,3,5-Trimethylbenzene	0.59	1.4	81%	
2,2,4-Trimethylpentane	12	14	15%	
Tetrachloroethylene	0.27U	1.2	NC	
Toluene	8.3	14	51%	
Trichloroethylene	0.21U	0.20	NC	
Trichlorofluoromethane	1.5	1.5	0%	
m,p-Xylene	3.9	5.2	29%	
o-Xylene	1.6	2.3	36%	
Xylenes (Total)	5.5	7.5	31%	

Compound	754020-IA-5-2182025 ug/m3	754020-DUP-2-2182025 ug/m3	RPD	Qualifier
Acetone	27.8	28.5	2%	None
Benzene	0.45	0.42	7%	
Chloroform	0.98	1.1	12%	
Dichlorodifluoromethane	0.49	0.99U	NC	
Ethanol	2.4	2.3	4%	
Ethyl Acetate	7.9	7.9	0%	
Hexane	1.1	0.85	26%	
Isopropyl Alcohol	0.96	1.2	22%	
Methylene Chloride	1.1	0.97	13%	
Methyl ethyl ketone	1.2	0.97	21%	
1,1,1-Trichloroethane	1.2	0.98	20%	
Tertiary Butyl Alcohol	0.36	0.36	0%	
Tetrahydrofuran	7.4	7.4	0%	
Trichlorofluoromethane	2.6	2.4	8%	

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed:

Nancy Weaver
Nancy Weaver
Senior Chemist

Dated: 5/8/25

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

Reason Code	Definition
HT	Holding Time
MB	Method Blank
SURR	Surrogate
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
RPD	Relative Percent Difference
CB/CCB	Calibration Blank or Continuing Calibration Blank
CCV	Calibration Verification
SD	ICP Serial Dilution
TB	Trip Blank
EB	Equipment Blank
FB	Field Blank
FD	Field Duplicate
CQ	Compound Quantitation
IS	Internal Standard

SGS North America Inc.

Report of Analysis

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Client Sample ID:	754020-IA-1-2182025	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-1	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A633	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57167.D	1	03/03/25 18:51	TCH	n/a	n/a	V5W2193
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	4.1	0.20	0.15	ppbv		9.7	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.047	ppbv	J	0.45	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.63	0.20	0.090	ppbv		1.3	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.48	0.20	0.10	ppbv		2.4	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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JE5976

Report of Analysis

Client Sample ID: 754020-IA-1-2182025
 Lab Sample ID: JE5976-1
 Matrix: AIR - Indoor Air Comp. Summa ID: A633
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25
 Date Received: 02/20/25
 Percent Solids: n/a

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	9.9	0.50	0.39	ppbv		19	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	0.19	0.20	0.061	ppbv	J	0.83	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	0.24	0.20	0.10	ppbv		0.86	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	0.16	0.10	0.031	ppbv		1.2	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.10	0.20	0.052	ppbv	J	0.35	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.93	0.20	0.14	ppbv		2.3	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.22	0.20	0.13	ppbv		0.76	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.23	0.20	0.11	ppbv		0.68	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.23	0.20	0.090	ppbv		0.68	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.20	0.057	ppbv		ND	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	0.065	0.040	0.019	ppbv		0.35	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.28	0.10	0.15	ppbv		1.6	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		65-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

754020

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Report of Analysis

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Client Sample ID: 754020-SS-1-20250218
 Lab Sample ID: JE5976-2
 Matrix: AIR - Soil Vapor Comp. Summa ID: M223
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25
 Date Received: 02/20/25
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13227.D	1	03/06/25 18:03	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	3.7	0.80	0.58	ppbv		8.8	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.19	ppbv		ND	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	0.40	0.80	0.18	ppbv	J	1.4	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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JE5976

Report of Analysis

Client Sample ID: 754020-SS-1-20250218
 Lab Sample ID: JE5976-2
 Matrix: AIR - Soil Vapor Comp. Summa ID: M223
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25
 Date Received: 02/20/25
 Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.80	0.42	ppbv		ND	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	33.9	0.40	0.12	ppbv		260	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	2.9	0.80	0.36	ppbv		12	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	2.5	0.80	0.21	ppbv		8.8	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.53	0.40	0.31	ppbv		2.9	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.5	0.16	0.056	ppbv		10	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	0.93	0.80	0.23	ppbv		3.5	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	4.0	0.16	0.076	ppbv		21	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

518125

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Report of Analysis

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Client Sample ID:	754020-IA-2-2182025	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-3	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A2191	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57180.D	1	03/04/25 23:15	TCH	n/a	n/a	V5W2194
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	6.7	0.20	0.15	ppbv		16	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.047	ppbv	J	0.45	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.70	0.20	0.090	ppbv		1.4	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.48	0.20	0.10	ppbv		2.4	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

New 518125

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JE5976

Report of Analysis

Client Sample ID: 754020-IA-2-2182025
 Lab Sample ID: JE5976-3
 Matrix: AIR - Indoor Air Comp. Summa ID: A2191
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25

Date Received: 02/20/25

Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	19.8	0.50	0.39	ppbv		37.3	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	5.2	0.20	0.10	ppbv		19	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.21	0.20	0.052	ppbv		0.74	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	2.2	0.20	0.14	ppbv		5.4	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.43	0.20	0.13	ppbv		1.5	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.22	0.20	0.11	ppbv		0.65	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.14	0.20	0.093	ppbv	J	0.42	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.15	0.040	0.014	ppbv		1.0	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	0.33	0.20	0.057	ppbv		1.2	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	0.19	0.040	0.019	ppbv		1.0	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.31	0.10	0.15	ppbv		1.7	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	0.26	0.20	0.11	ppbv		0.91	0.70	0.39	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

754020

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Report of Analysis

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Client Sample ID: 754020-SS-2-20250218
 Lab Sample ID: JE5976-4
 Matrix: AIR - Soil Vapor Comp. Summa ID: A852
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25
 Date Received: 02/20/25
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13238.D	1	03/07/25 01:12	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	1.7	0.80	0.58	ppbv		4.0	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.19	ppbv		ND	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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JE5976

Report of Analysis

Client Sample ID: 754020-SS-2-20250218
 Lab Sample ID: JE5976-4
 Matrix: AIR - Soil Vapor Comp. Summa ID: A852
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25
 Date Received: 02/20/25
 Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	0.96	0.80	0.42	ppbv		3.5	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.36	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.31	ppbv		ND	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	19.3	0.16	0.056	ppbv		131	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

As 518125

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Report of Analysis

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Client Sample ID:	754020-IA-3-2182025	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-5	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1876	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57182.D	1	03/05/25 01:06	TCH	n/a	n/a	V5W2194
Run #2	5W57194.D	1	03/05/25 11:07	TCH	n/a	n/a	V5W2194

Run #	Initial Volume
Run #1	400 ml
Run #2	20.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	586 ^a	4.0	2.9	ppbv		1390 ^a	9.5	6.9	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.28	0.20	0.047	ppbv		0.89	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.77	0.20	0.090	ppbv		1.6	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	0.74	0.20	0.045	ppbv		2.5	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.55	0.20	0.10	ppbv		2.7	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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JE5976

Report of Analysis

Client Sample ID: 754020-IA-3-2182025
 Lab Sample ID: JE5976-5
 Matrix: AIR - Indoor Air Comp. Summa ID: A1876
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25

Date Received: 02/20/25

Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	17.9	0.50	0.39	ppbv		33.7	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	0.25	0.20	0.061	ppbv		1.1	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	0.13 J	0.20	0.10	ppbv	J	0.47 J	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.12	0.20	0.095	ppbv	J	0.59	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	7.9	0.20	0.091	ppbv		32	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.65	0.20	0.052	ppbv		2.3	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.59	0.20	0.14	ppbv		1.5	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.23	0.20	0.13	ppbv		0.80	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.23	0.20	0.11	ppbv		0.68	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.39	0.20	0.087	ppbv		1.9	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.12	0.20	0.080	ppbv	J	0.59	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	2.5	0.20	0.040	ppbv		12	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	2.2	0.20	0.057	ppbv		8.3	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.27	0.10	0.15	ppbv		1.5	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	0.89	0.20	0.14	ppbv		3.9	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	0.37	0.20	0.077	ppbv		1.6	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	1.3	0.20	0.077	ppbv		5.5	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%	102%	65-128%

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

nw 518125

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Report of Analysis

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Client Sample ID:	754020-DUP-1-2182025	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-6	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A2126	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57183.D	1	03/05/25 02:00	TCH	n/a	n/a	V5W2194
Run #2	5W57239.D	1	03/07/25 02:25	TCH	n/a	n/a	V5W2196

Run #	Initial Volume
Run #1	400 ml
Run #2	10.0 ml

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	1340 ^a	8.0	5.8	ppbv		3180 ^a	19	14	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.38	0.20	0.047	ppbv		1.2	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.78	0.20	0.090	ppbv		1.6	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	1.5	0.20	0.045	ppbv		5.2	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.54	0.20	0.10	ppbv		2.7	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

mw 518125

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JE5976

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Report of Analysis

Client Sample ID: 754020-DUP-1-2182025
 Lab Sample ID: JE5976-6
 Matrix: AIR - Indoor Air Comp. Summa ID: A2126
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25
 Date Received: 02/20/25
 Percent Solids: n/a

4.6

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	17.1	0.50	0.39	ppbv		32.2	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	0.34	0.20	0.061	ppbv		1.5	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	14.0 J	0.20	0.10	ppbv		50.4 J	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	0.29	0.20	0.095	ppbv		1.4	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	19.4	0.20	0.091	ppbv		79.5	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.99	0.20	0.052	ppbv		3.5	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.0	0.20	0.14	ppbv		2.5	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.37	0.20	0.13	ppbv		1.3	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.23	0.20	0.11	ppbv		0.68	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	1.0	0.20	0.087	ppbv		4.9	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	0.29	0.20	0.080	ppbv		1.4	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	2.9	0.20	0.040	ppbv		14	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.17	0.040	0.014	ppbv		1.2	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	3.7	0.20	0.057	ppbv		14	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	0.037	0.040	0.019	ppbv	J	0.20	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.10	0.15	ppbv		1.5	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	1.2	0.20	0.14	ppbv		5.2	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	0.54	0.20	0.077	ppbv		2.3	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	1.7	0.20	0.077	ppbv		7.5	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	106%	104%	65-128%

ND = Not detected MDL = Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	754020-SS-3-20250218	Date Sampled:	02/18/25
Lab Sample ID:	JE5976-7	Date Received:	02/20/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1859	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13239.D	1	03/07/25 01:50	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	10.6	0.80	0.58	ppbv		25.2	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	0.62	0.80	0.19	ppbv	J	2.0	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 R = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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JE5976

Report of Analysis

Client Sample ID: 754020-SS-3-20250218
 Lab Sample ID: JE5976-7
 Matrix: AIR - Soil Vapor Comp. Summa ID: A1859
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/18/25
 Date Received: 02/20/25
 Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	2.1	2.0	1.6	ppbv		4.0	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	1.1	0.80	0.42	ppbv		4.0	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.36	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	0.42	0.80	0.21	ppbv	J	1.5	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.64	0.80	0.56	ppbv	J	1.6	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.87	0.80	0.44	ppbv		2.6	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.31	ppbv		ND	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.69	0.80	0.35	ppbv	J	3.4	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	20.9	0.16	0.056	ppbv		142	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	0.72	0.80	0.23	ppbv	J	2.7	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	0.80	0.16	0.076	ppbv		4.3	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		65-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	754020-IA-4-2182025	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-8	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1846	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57184.D	1	03/05/25 02:54	TCH	n/a	n/a	V5W2194
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	41.8	0.20	0.15	ppbv		99.3	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	5.8	0.20	0.084	ppbv		13	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	5.7	0.20	0.047	ppbv		18	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	0.14	0.20	0.037	ppbv	J	0.68	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.63	0.20	0.090	ppbv		1.3	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	0.13	0.20	0.045	ppbv	J	0.45	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.48	0.20	0.10	ppbv		2.4	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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JE5976

Report of Analysis

Client Sample ID: 754020-IA-4-2182025
 Lab Sample ID: JE5976-8
 Matrix: AIR - Indoor Air Comp. Summa ID: A1846
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/19/25
 Date Received: 02/20/25
 Percent Solids: n/a

4.8

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	25.8	0.50	0.39	ppbv		48.6	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	0.14	0.20	0.061	ppbv	J	0.61	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	0.10	ppbv		ND	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	0.48	0.20	0.091	ppbv		2.0	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.32	0.20	0.052	ppbv		1.1	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	4.7	0.20	0.14	ppbv		12	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.24	0.20	0.13	ppbv		0.83	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.41	0.20	0.11	ppbv		1.2	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.14	0.20	0.087	ppbv	J	0.69	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	1.3	0.20	0.040	ppbv		6.1	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	0.92	0.20	0.057	ppbv		3.5	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.28	0.10	0.15	ppbv		1.6	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	0.38	0.20	0.14	ppbv		1.7	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	0.16	0.20	0.077	ppbv	J	0.69	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	0.54	0.20	0.077	ppbv		2.4	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		65-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	754020-CS-4-20250218	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-9	Date Received:	02/20/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A2188	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13240.D	1	03/07/25 02:29	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	1.3	0.80	0.58	ppbv		3.1	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.19	ppbv		ND	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	0.47	0.80	0.36	ppbv	J	0.97	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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JE5976

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Report of Analysis

Client Sample ID: 754020-CS-4-20250218
 Lab Sample ID: JE5976-9
 Matrix: AIR - Soil Vapor Comp. Summa ID: A2188
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/19/25
 Date Received: 02/20/25
 Percent Solids: n/a

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	2.4	0.80	0.42	ppbv		8.6	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.36	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.31	ppbv		ND	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		65-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	754020-OA-1-2182025	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-10	Date Received:	02/20/25
Matrix:	AIR - Ambient Air Comp. Summa ID: A1863	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13241.D	1	03/07/25 03:13	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	2.0	0.20	0.15	ppbv		4.8	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.10	0.20	0.047	ppbv	J	0.32	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.44	0.20	0.090	ppbv		0.91	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.34	0.20	0.10	ppbv		1.7	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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JE5976

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Report of Analysis

Client Sample ID: 754020-OA-1-2182025
 Lab Sample ID: JE5976-10
 Matrix: AIR - Ambient Air Comp. Summa ID: A1863
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/19/25
 Date Received: 02/20/25
 Percent Solids: n/a

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	0.50	0.39	ppbv		ND	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	0.97	0.20	0.10	ppbv		3.5	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	ND	0.20	0.052	ppbv		ND	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.20	0.14	ppbv		ND	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	0.13	ppbv		ND	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.20	0.11	ppbv		ND	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.10	0.078	ppbv		ND	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	0.090	ppbv		ND	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.20	0.057	ppbv		ND	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.17	0.10	0.15	ppbv		0.96	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		65-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	754020-IA-5-2182025	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-11	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A864	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57185.D	1	03/05/25 03:48	TCH	n/a	n/a	V5W2194
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	11.7	0.20	0.15	ppbv		27.8	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.14	0.20	0.047	ppbv	J	0.45	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	0.20	0.20	0.037	ppbv		0.98	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.10	0.20	0.10	ppbv	J	0.49	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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JE5976

4.11
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Report of Analysis

Client Sample ID: 754020-IA-5-2182025
 Lab Sample ID: JE5976-11
 Matrix: AIR - Indoor Air Comp. Summa ID: A864
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/19/25
 Date Received: 02/20/25
 Percent Solids: n/a

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	1.3	0.50	0.39	ppbv		2.4	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	2.2	0.20	0.10	ppbv		7.9	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.30	0.20	0.052	ppbv		1.1	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.39	0.20	0.14	ppbv		0.96	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.33	0.20	0.13	ppbv		1.1	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.39	0.20	0.11	ppbv		1.2	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.22	0.10	0.078	ppbv		1.2	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.12	0.20	0.093	ppbv	J	0.36	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.5	0.20	0.090	ppbv		7.4	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.20	0.057	ppbv		ND	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.47	0.10	0.15	ppbv		2.6	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		65-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	754020-DUP-2-2182025	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-12	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A1114	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57186.D	1	03/05/25 04:40	TCH	n/a	n/a	V5W2194
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	12.0	0.20	0.15	ppbv		28.5	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.13	0.20	0.047	ppbv	J	0.42	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	0.22	0.20	0.037	ppbv		1.1	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	ND	0.20	0.090	ppbv		ND	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.20	0.10	ppbv		ND	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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JE5976

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Report of Analysis

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Client Sample ID: 754020-DUP-2-2182025
 Lab Sample ID: JE5976-12
 Matrix: AIR - Indoor Air Comp. Summa ID: A1114
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/19/25
 Date Received: 02/20/25
 Percent Solids: n/a

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	1.2	0.50	0.39	ppbv		2.3	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	2.2	0.20	0.10	ppbv		7.9	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	0.24	0.20	0.052	ppbv		0.85	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	0.50	0.20	0.14	ppbv		1.2	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.28	0.20	0.13	ppbv		0.97	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.33	0.20	0.11	ppbv		0.97	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.18	0.10	0.078	ppbv		0.98	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	0.040	ppbv		ND	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	0.12	0.20	0.093	ppbv	J	0.36	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.040	0.014	ppbv		ND	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	2.5	0.20	0.090	ppbv		7.4	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	ND	0.20	0.057	ppbv		ND	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.42	0.10	0.15	ppbv		2.4	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	ND	0.20	0.14	ppbv		ND	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		65-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	754020-SS-5-20250218	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-13	Date Received:	02/20/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A226	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13242.D	1	03/07/25 03:52	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	2.5	0.80	0.58	ppbv		5.9	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.19	ppbv		ND	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	0.80	0.42	ppbv		ND	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID: 754020-SS-5-20250218
 Lab Sample ID: JE5976-13
 Matrix: AIR - Soil Vapor Comp. Summa ID: A226
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/19/25
 Date Received: 02/20/25
 Percent Solids: n/a

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VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	0.96	0.80	0.42	ppbv		3.5	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	ND	0.40	0.20	ppbv		ND	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.36	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.31	ppbv		ND	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.80	0.35	ppbv		ND	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	93%		65-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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JE5976

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Report of Analysis

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Client Sample ID: 754020-SS-6-20250218
 Lab Sample ID: JE5976-14
 Matrix: AIR - Soil Vapor Comp. Summa ID: A1276
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/19/25
 Date Received: 02/20/25
 Percent Solids: n/a

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7W13243.D	1	03/07/25 04:32	WC	n/a	n/a	V7W465
Run #2							

Run #	Initial Volume
Run #1	100 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	2.7	0.80	0.58	ppbv		6.4	1.9	1.4	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.80	0.34	ppbv		ND	1.8	0.75	ug/m3
71-43-2	78.11	Benzene	ND	0.80	0.19	ppbv		ND	2.6	0.61	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.40	0.12	ppbv		ND	2.7	0.80	ug/m3
75-25-2	252.8	Bromoform	ND	0.16	0.28	ppbv		ND	1.7	2.9	ug/m3
74-83-9	94.94	Bromomethane	ND	0.80	0.28	ppbv		ND	3.1	1.1	ug/m3
593-60-2	106.9	Bromoethene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.80	0.50	ppbv		ND	4.1	2.6	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.80	0.18	ppbv		ND	2.5	0.56	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.80	0.30	ppbv		ND	3.7	1.4	ug/m3
75-00-3	64.52	Chloroethane	ND	0.80	0.27	ppbv		ND	2.1	0.71	ug/m3
67-66-3	119.4	Chloroform	ND	0.80	0.15	ppbv		ND	3.9	0.73	ug/m3
74-87-3	50.49	Chloromethane	ND	0.80	0.36	ppbv		ND	1.7	0.74	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.80	0.33	ppbv		ND	2.5	1.0	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.80	0.29	ppbv		ND	4.1	1.5	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.16	0.16	ppbv		ND	1.0	1.0	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.80	0.18	ppbv		ND	2.8	0.62	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.80	0.23	ppbv		ND	3.2	0.93	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.16	0.24	ppbv		ND	0.63	0.95	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.80	0.28	ppbv		ND	3.2	1.1	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.80	0.25	ppbv		ND	3.7	1.2	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.80	0.19	ppbv		ND	2.9	0.68	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.46	0.80	0.42	ppbv	J	2.3	4.0	2.1	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.40	0.21	ppbv		ND	3.4	1.8	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.80	0.11	ppbv		ND	3.2	0.44	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.16	0.12	ppbv		ND	0.63	0.48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.80	0.25	ppbv		ND	3.6	1.1	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.40	0.53	ppbv		ND	2.4	3.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.16	0.28	ppbv		ND	0.96	1.7	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.40	0.32	ppbv		ND	2.4	1.9	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.80	0.40	ppbv		ND	3.6	1.8	ug/m3

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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JE5976

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Report of Analysis

Client Sample ID:	754020-SS-6-20250218	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-14	Date Received:	02/20/25
Matrix:	AIR - Soil Vapor Comp. Summa ID: A1276	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	ND	2.0	1.6	ppbv		ND	3.8	3.0	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.80	0.24	ppbv		ND	3.5	1.0	ug/m3
141-78-6	88	Ethyl Acetate	6.0	0.80	0.42	ppbv		22	2.9	1.5	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.80	0.38	ppbv		ND	3.9	1.9	ug/m3
76-13-1	187.4	Freon 113	ND	0.40	0.12	ppbv		ND	3.1	0.92	ug/m3
76-14-2	170.9	Freon 114	1.2	0.40	0.20	ppbv		8.4	2.8	1.4	ug/m3
142-82-5	100.2	Heptane	ND	0.80	0.36	ppbv		ND	3.3	1.5	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.36	0.25	ppbv		ND	3.8	2.7	ug/m3
110-54-3	86.18	Hexane	ND	0.80	0.21	ppbv		ND	2.8	0.74	ug/m3
591-78-6	100	2-Hexanone	ND	0.80	0.58	ppbv		ND	3.3	2.4	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	0.80	0.56	ppbv		ND	2.0	1.4	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.80	0.53	ppbv		ND	2.8	1.8	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	0.80	0.44	ppbv		ND	2.4	1.3	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.80	0.29	ppbv		ND	3.3	1.2	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.80	0.32	ppbv		ND	2.9	1.2	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.80	0.28	ppbv		ND	3.3	1.1	ug/m3
115-07-1	42	Propylene	ND	2.0	0.57	ppbv		ND	3.4	0.98	ug/m3
100-42-5	104.1	Styrene	ND	0.80	0.21	ppbv		ND	3.4	0.89	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.40	0.31	ppbv		ND	2.2	1.7	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.40	0.19	ppbv		ND	2.7	1.3	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.40	0.15	ppbv		ND	2.2	0.82	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.40	0.48	ppbv		ND	3.0	3.6	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	0.49	0.80	0.35	ppbv	J	2.4	3.9	1.7	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.80	0.32	ppbv		ND	3.9	1.6	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.80	0.16	ppbv		ND	3.7	0.75	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.80	0.37	ppbv		ND	2.4	1.1	ug/m3
127-18-4	165.8	Tetrachloroethylene	ND	0.16	0.056	ppbv		ND	1.1	0.38	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.80	0.36	ppbv		ND	2.4	1.1	ug/m3
108-88-3	92.14	Toluene	ND	0.80	0.23	ppbv		ND	3.0	0.87	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.16	0.076	ppbv		ND	0.86	0.41	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	0.40	0.62	ppbv		ND	2.2	3.5	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.16	0.28	ppbv		ND	0.41	0.72	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.80	0.45	ppbv		ND	2.8	1.6	ug/m3
	106.2	m,p-Xylene	ND	0.80	0.56	ppbv		ND	3.5	2.4	ug/m3
95-47-6	106.2	o-Xylene	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	0.80	0.31	ppbv		ND	3.5	1.3	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	98%		65-128%

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

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Report of Analysis

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Client Sample ID:	754020-IA-6-2182025	Date Sampled:	02/19/25
Lab Sample ID:	JE5976-15	Date Received:	02/20/25
Matrix:	AIR - Indoor Air Comp. Summa ID: A2135	Percent Solids:	n/a
Method:	TO-15		
Project:	Sulphur Springs Road, Binghamton, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5W57187.D	1	03/05/25 05:31	TCH	n/a	n/a	V5W2194
Run #2							

Run #	Initial Volume
Run #1	400 ml
Run #2	

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
67-64-1	58.08	Acetone (2-Propanone)	13.4	0.20	0.15	ppbv		31.8	0.48	0.36	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	0.084	ppbv		ND	0.44	0.19	ug/m3
71-43-2	78.11	Benzene	0.18	0.20	0.047	ppbv	J	0.58	0.64	0.15	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.10	0.030	ppbv		ND	0.67	0.20	ug/m3
75-25-2	252.8	Bromoform	ND	0.040	0.071	ppbv		ND	0.41	0.73	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	0.069	ppbv		ND	0.78	0.27	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	0.061	ppbv		ND	0.87	0.27	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	0.13	ppbv		ND	1.0	0.67	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	0.045	ppbv		ND	0.62	0.14	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	0.074	ppbv		ND	0.92	0.34	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	0.068	ppbv		ND	0.53	0.18	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	0.037	ppbv		ND	0.98	0.18	ug/m3
74-87-3	50.49	Chloromethane	0.63	0.20	0.090	ppbv		1.3	0.41	0.19	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	0.083	ppbv		ND	0.63	0.26	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	0.072	ppbv		ND	1.0	0.37	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.040	0.040	ppbv		ND	0.25	0.25	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	0.045	ppbv		ND	0.69	0.15	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	0.057	ppbv		ND	0.81	0.23	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.040	0.059	ppbv		ND	0.16	0.23	ug/m3
106-93-4	187.9	1,2-Dibromoethane (EDB)	ND	0.10	0.030	ppbv		ND	0.77	0.23	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	0.070	ppbv		ND	0.81	0.28	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	0.062	ppbv		ND	0.92	0.29	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	0.048	ppbv		ND	0.72	0.17	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.49	0.20	0.10	ppbv		2.4	0.99	0.49	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.10	0.052	ppbv		ND	0.85	0.44	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	0.028	ppbv		ND	0.79	0.11	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	0.040	0.030	ppbv		ND	0.16	0.12	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	0.062	ppbv		ND	0.91	0.28	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.10	0.13	ppbv		ND	0.60	0.78	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.040	0.069	ppbv		ND	0.24	0.41	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.10	0.079	ppbv		ND	0.60	0.47	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	0.10	ppbv		ND	0.91	0.45	ug/m3

ND = Not detected MDL = Method Detection Limit
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MWS18125

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Report of Analysis

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Client Sample ID: 754020-IA-6-2182025
 Lab Sample ID: JE5976-15
 Matrix: AIR - Indoor Air Comp. Summa ID: A2135
 Method: TO-15
 Project: Sulphur Springs Road, Binghamton, NY

Date Sampled: 02/19/25
 Date Received: 02/20/25
 Percent Solids: n/a

4.15
4

VOA TO15 List

CAS No.	MW	Compound	Result	RL	MDL	Units	Q	Result	RL	MDL	Units
64-17-5	46.07	Ethanol	7.1	0.50	0.39	ppbv		13	0.94	0.73	ug/m3
100-41-4	106.2	Ethylbenzene	ND	0.20	0.061	ppbv		ND	0.87	0.26	ug/m3
141-78-6	88	Ethyl Acetate	2.4	0.20	0.10	ppbv		8.6	0.72	0.36	ug/m3
622-96-8	120.19	4-Ethyltoluene	ND	0.20	0.095	ppbv		ND	0.98	0.47	ug/m3
76-13-1	187.4	Freon 113	ND	0.10	0.031	ppbv		ND	0.77	0.24	ug/m3
76-14-2	170.9	Freon 114	ND	0.10	0.050	ppbv		ND	0.70	0.35	ug/m3
142-82-5	100.2	Heptane	ND	0.20	0.091	ppbv		ND	0.82	0.37	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.090	0.062	ppbv		ND	0.96	0.66	ug/m3
110-54-3	86.18	Hexane	1.1	0.20	0.052	ppbv		3.9	0.70	0.18	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	0.15	ppbv		ND	0.82	0.61	ug/m3
67-63-0	60.1	Isopropyl Alcohol	5.0	0.20	0.14	ppbv		12	0.49	0.34	ug/m3
75-09-2	84.94	Methylene chloride	0.84	0.20	0.13	ppbv		2.9	0.69	0.45	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.30	0.20	0.11	ppbv		0.88	0.59	0.32	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	0.073	ppbv		ND	0.82	0.30	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	0.080	ppbv		ND	0.72	0.29	ug/m3
80-62-6	100.12	Methylmethacrylate	ND	0.20	0.070	ppbv		ND	0.82	0.29	ug/m3
115-07-1	42	Propylene	ND	0.50	0.14	ppbv		ND	0.86	0.24	ug/m3
100-42-5	104.1	Styrene	ND	0.20	0.053	ppbv		ND	0.85	0.23	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	0.14	0.10	0.078	ppbv		0.76	0.55	0.43	ug/m3
79-34-5	167.85	1,1,2,2-Tetrachloroethane	ND	0.10	0.048	ppbv		ND	0.69	0.33	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.10	0.038	ppbv		ND	0.55	0.21	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.10	0.12	ppbv		ND	0.74	0.89	ug/m3
95-63-6	120.19	1,2,4-Trimethylbenzene	ND	0.20	0.087	ppbv		ND	0.98	0.43	ug/m3
108-67-8	120.19	1,3,5-Trimethylbenzene	ND	0.20	0.080	ppbv		ND	0.98	0.39	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.29	0.20	0.040	ppbv		1.4	0.93	0.19	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	0.093	ppbv		ND	0.61	0.28	ug/m3
127-18-4	165.8	Tetrachloroethylene	0.037	0.040	0.014	ppbv	J	0.25	0.27	0.095	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.19	0.20	0.090	ppbv	J	0.56	0.59	0.27	ug/m3
108-88-3	92.14	Toluene	0.36	0.20	0.057	ppbv		1.4	0.75	0.21	ug/m3
79-01-6	131.4	Trichloroethylene	ND	0.040	0.019	ppbv		ND	0.21	0.10	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.38	0.10	0.15	ppbv		2.1	0.56	0.84	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.040	0.069	ppbv		ND	0.10	0.18	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	0.11	ppbv		ND	0.70	0.39	ug/m3
	106.2	m,p-Xylene	0.21	0.20	0.14	ppbv		0.91	0.87	0.61	ug/m3
95-47-6	106.2	o-Xylene	ND	0.20	0.077	ppbv		ND	0.87	0.33	ug/m3
1330-20-7	106.2	Xylenes (total)	0.21	0.20	0.077	ppbv		0.91	0.87	0.33	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	104%		65-128%

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