

Cover Page

Order ID : Q2368

Project ID : 1426 Ogden Ave, Bronx NJ

Client : GFE LLC

Lab Sample Number

Q2368-01
Q2368-02

Client Sample Number

SV1
IA1

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 6/25/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2506029				Courier : FGALDUN				<u>1</u> of <u>2</u> COCs					
Client ID : GFEL01				Project ID : University of Bronx				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 1426 OGDEN AVE BRONX, NY													
				Analysis Turnaround Time 5 DAY				Data Package Type : Result Only									
				Standard : 10 business days OR				EDD Type :									
Country :				Rush (Specify): <u>5</u> Days													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SV1	6/18/25	10:52	12:52	30	0	79	75	-30	-4.7	10649	10606	6 L	50	VL042491.D	1		1
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.3</u> Sampling site (State):																	
Quick Connector required : <u>No</u>																	
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>6/19/25</u>				Canisters Received by:				Date/Time:					
Samples Relinquished by: <u>[Signature]</u>				Date/Time: <u>6/19/25</u>				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by: <u>cl</u>				Date/Time: <u>6/19/25 1237</u>					
B2506029 - 4																	

Client Contact Information				Bottle Order ID : 82506029				Courier : FGALDUN				2 of 2 EOCs			
Client ID : GFEL01				Project ID : University Ave Bronx				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix	
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 1426 OGDEN AVE. BRONX, NY											
				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY							
				Standard : 10 business days OR				EDD Type : PDP							
Rush (Specify): 5 Days															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
IA1	6/18/25	10:44	12:44	0.5	4.5	75	75	-30	-5.9	10511	10321	6 L	50	VL042490.D	1	1	

Temperature (Fahrenheit)					GC/MS Analyst Signature (TO-15) [Signature]
	Ambient	Maximum	Minimum		
Start					
Stop					

Pressure (Inches of Hg)					** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.
	Ambient	Maximum	Minimum		
Start					
Stop					

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: QO

Sampling site (State):

Quick Connector required : NO

Canisters Shipped by: <u>[Signature]</u>	Date/Time: <u>6/13/25</u>	Canisters Received by:	Date/Time:
Samples Relinquished by: <u>[Signature]</u>	Date/Time: <u>6/19/25</u>	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by: <u>CP</u>	Date/Time: <u>6/19/25 1237</u>

B2506029 - 2

Laboratory Certification

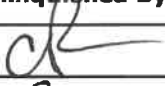
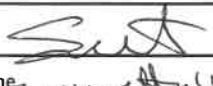
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
<u>QA/QC:</u>		Title: <u>Sample Custodian</u>	
Field Sample Seal No. <u>Q2368</u>		Date Broken <u>6/19/2025</u> Military Time Seal Broken: <u>12:37:00</u>	
Case No.: <u>1426 Ogden Ave, Bronx NJ</u>		Analytical Parameter/Fraction <u>VOCMS Group2</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2368-01	SV1		
Q2368-02	IA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
6/19/25	14:47	Signature 	Signature 	
		Printed Name <u>Cassanova</u>	Printed Name <u>Sample Custodian</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report) Yellow - Contractor Archive Pink - Sample Custodian - Interim Copy

CASE NARRATIVE

GFE LLC

Project Name: 1426 Ogden Ave, Bronx NJ

Project # N/A

Order ID # Q2368

Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:

2 Air samples were received on 06/19/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group2. This data package contains results for VOCMS Group2.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax, Entech 7100A Preconcentrator. The analysis of VOCMS Group2 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD for {Q2368-01DUP} with File ID: VL042661.D met criteria except for Cyclohexane[200%] due to difference in results of original and DUP.

The Blank Spike met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Due to potential high concentration of target analytes, Sample SV1 was initially diluted.

Sample IA1 was diluted due to high concentration.



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

E. Additional Comments:

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2368

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 06/25/2025

LAB CHRONICLE

OrderID:	Q2368	OrderDate:	6/19/2025 1:17:00 PM
Client:	GFE LLC	Project:	1426 Ogden Ave, Bronx NY
Contact:	Frank Galdun	Location:	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2368-01	SV1	Air	VOCMS Group2	TO-15	06/18/25		06/19/25	06/19/25
Q2368-01DUP	SV1DUP	Air	VOCMS Group2	TO-15	06/18/25		06/20/25	06/19/25
Q2368-02	IA1	Air	VOCMS Group2	TO-15	06/18/25		06/19/25	06/19/25
Q2368-02DL	IA1DL	Air	VOCMS Group2	TO-15	06/18/25		06/19/25	06/19/25

Hit Summary Sheet
SW-846

SDG No.: Q2368
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q2368-01	SV1	Air	Heptane	80.7		6.97	20.5	ug/m3
Q2368-01	SV1	Air	Benzene	6.39	J	2.52	16.0	ug/m3
Q2368-01	SV1	Air	Toluene	104		6.03	18.8	ug/m3
Q2368-01	SV1	Air	Tetrachloroethene	9.49		1.02	2.03	ug/m3
Q2368-01	SV1	Air	Ethyl Benzene	25.2		8.25	21.7	ug/m3
Q2368-01	SV1	Air	m/p-Xylene	185		17.8	43.4	ug/m3
Q2368-01	SV1	Air	o-Xylene	73.0		9.12	21.7	ug/m3
Q2368-01	SV1	Air	1,2,4-Trimethylbenzene	35.9		8.85	24.6	ug/m3
Q2368-01	SV1	Air	Hexane	239		5.64	17.6	ug/m3
			Total Voc :		759			
			Total Concentration:		759			
Client ID:	SV1DUP							
Q2368-01DUP	SV1DUP	Air	Heptane	70.1		6.97	20.5	ug/m3
Q2368-01DUP	SV1DUP	Air	Benzene	6.39	J	2.52	16.0	ug/m3
Q2368-01DUP	SV1DUP	Air	Toluene	95.7		6.03	18.8	ug/m3
Q2368-01DUP	SV1DUP	Air	Tetrachloroethene	8.82		1.02	2.03	ug/m3
Q2368-01DUP	SV1DUP	Air	Ethyl Benzene	22.1		8.25	21.7	ug/m3
Q2368-01DUP	SV1DUP	Air	m/p-Xylene	177		17.8	43.4	ug/m3
Q2368-01DUP	SV1DUP	Air	o-Xylene	71.7		9.12	21.7	ug/m3
Q2368-01DUP	SV1DUP	Air	1,2,4-Trimethylbenzene	33.4		8.85	24.6	ug/m3
Q2368-01DUP	SV1DUP	Air	Hexane	230		5.64	17.6	ug/m3
			Total Voc :		715			
			Total Concentration:		715			
Client ID:	IA1							
Q2368-02	IA1	Air	Vinyl Chloride	0.10		0.080	0.080	ug/m3
Q2368-02	IA1	Air	Heptane	12.3		0.70	2.05	ug/m3
Q2368-02	IA1	Air	Cyclohexane	6.88		0.76	1.72	ug/m3
Q2368-02	IA1	Air	cis-1,2-Dichloroethene	1.19	J	0.40	1.98	ug/m3
Q2368-02	IA1	Air	2,2,4-Trimethylpentane	18.7		0.65	2.34	ug/m3
Q2368-02	IA1	Air	Benzene	16.0		0.26	1.60	ug/m3
Q2368-02	IA1	Air	Trichloroethene	1.24		0.11	0.16	ug/m3
Q2368-02	IA1	Air	Toluene	84.8	E	0.60	1.88	ug/m3
Q2368-02	IA1	Air	Tetrachloroethene	1080	E	0.14	0.20	ug/m3
Q2368-02	IA1	Air	Ethyl Benzene	25.2		0.83	2.17	ug/m3
Q2368-02	IA1	Air	m/p-Xylene	91.2		1.78	4.34	ug/m3
Q2368-02	IA1	Air	o-Xylene	35.2		0.91	2.17	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q2368

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q2368-02	IA1	Air	1,3,5-Trimethylbenzene	5.90		0.88	2.46	ug/m3
Q2368-02	IA1	Air	1,2,4-Trimethylbenzene	19.2		0.88	2.46	ug/m3
Q2368-02	IA1	Air	Naphthalene	1.26		0.050	0.52	ug/m3
Q2368-02	IA1	Air	Hexane	30.0		0.56	1.76	ug/m3
Total Voc :				1430				
Total Concentration:				1430				
Client ID:	IA1DL							
Q2368-02DL	IA1DL	Air	Benzene	13.4	JD	10.2	63.9	ug/m3
Q2368-02DL	IA1DL	Air	Toluene	60.7	JD	24.1	75.4	ug/m3
Q2368-02DL	IA1DL	Air	Tetrachloroethene	1490	D	4.07	8.14	ug/m3
Q2368-02DL	IA1DL	Air	Hexane	22.6	JD	22.6	70.5	ug/m3
Total Voc :				1590				
Total Concentration:				1590				



QC SUMMARY

Surrogate Summary

SDG No.: Q2368

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2368-01	SV1	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
Q2368-01DUP	SV1DUP	1-Bromo-4-Fluorobenzene	10	10.5	105	65	135
Q2368-02	IA1	1-Bromo-4-Fluorobenzene	10	10.6	106	65	135
Q2368-02DL	IA1DL	1-Bromo-4-Fluorobenzene	10	9.98	100	65	135
VL0619ABL01	VL0619ABL01	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
VL0619ABS01	VL0619ABS01	1-Bromo-4-Fluorobenzene	10	10.6	106	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2368

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL042649.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0619ABS01	Vinyl Chloride	10	9.30	ppbv	93			70	130	
	Heptane	10	9.50	ppbv	95			70	130	
	1,1-Dichloroethene	10	10.9	ppbv	109			70	130	
	Cyclohexane	10	9.10	ppbv	91			70	130	
	cis-1,2-Dichloroethene	10	9.70	ppbv	97			70	130	
	1,1,1-Trichloroethane	10	10.0	ppbv	100			70	130	
	2,2,4-Trimethylpentane	10	11.1	ppbv	111			70	130	
	Benzene	10	10.8	ppbv	108			70	130	
	Trichloroethene	10	10.2	ppbv	102			70	130	
	Toluene	10	10.5	ppbv	105			70	130	
	Tetrachloroethene	10	9.80	ppbv	98			70	130	
	Ethyl Benzene	10	11.1	ppbv	111			70	130	
	m/p-Xylene	20	23.2	ppbv	116			70	130	
	o-Xylene	10	11.7	ppbv	117			70	130	
	1,3,5-Trimethylbenzene	10	11.5	ppbv	115			70	130	
	1,2,4-Trimethylbenzene	10	11.6	ppbv	116			70	130	
	Naphthalene	10	11.8	ppbv	118			70	130	
	Hexane	10	9.40	ppbv	94			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q2368-01DUP	Q2368-01
Client Id :	SV1DUP	SV1
DF :	10	10
Datafile :	VL042661.D	VL042655.D
Anal Date & Time :	06/20/2025 07:50	06/19/2025 15:09

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trimethylbenzene	6.8	7.3	7.1
1,3,5-Trimethylbenzene	0	0	0
2,2,4-Trimethylpentane	0	0	0
Benzene	2	2	0
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	1.6	0	200 *
Ethyl Benzene	5.1	5.8	12.8
Heptane	17.1	19.7	14.1
Hexane	65.3	67.9	3.9
m/p-Xylene	40.7	42.5	4.3
Naphthalene	0	0	0
o-Xylene	16.5	16.8	1.8
Tetrachloroethene	1.3	1.4	7.4
Toluene	25.4	27.6	8.3
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SV1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q2368

SAS No.: Q2368 SDG NO.: Q2368

Lab File ID: VL042661.D

Lab Sample ID: Q2368-01DUP

Date Analyzed: 06/20/2025

Time Analyzed: 07:50

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SV1DUP	Q2368-01DUP	VL042661.D	06/20/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0619ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q2368

SAS No.: Q2368 SDG NO.: Q2368

Lab File ID: VL042648.D

Lab Sample ID: VL0619ABL01

Date Analyzed: 06/19/2025

Time Analyzed: 09:42

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0619ABS01	VL0619ABS01	VL042649.D	06/19/2025
IA1	Q2368-02	VL042654.D	06/19/2025
SV1	Q2368-01	VL042655.D	06/19/2025
IA1DL	Q2368-02DL	VL042660.D	06/19/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q2368 SAS No.: Q2368 SDG NO.: Q2368
Lab File ID: VL042578.D BFB Injection Date: 05/29/2025
Instrument ID: MSVOA_L BFB Injection Time: 08:05
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.4
75	30.0 - 66.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	67.2
175	4.0 - 9.0% of mass 174	5.2 (7.7) 1
176	93.0 - 101.0% of mass 174	63.6 (94.6) 1
177	5.0 - 9.0% of mass 176	4 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042579.D	05/29/2025	11:09
VSTDICCC002	VSTDICCC002	VL042580.D	05/29/2025	11:43
VSTDICCC001	VSTDICCC001	VL042581.D	05/29/2025	12:15
VSTDICCC0.5	VSTDICCC0.5	VL042582.D	05/29/2025	12:47
VSTDICCC0.1	VSTDICCC0.1	VL042583.D	05/29/2025	13:19
VSTDICCC0.03	VSTDICCC0.03	VL042584.D	05/29/2025	13:51
VSTDICCC015	VSTDICCC015	VL042585.D	05/29/2025	14:24

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q2368 SAS No.: Q2368 SDG NO.: Q2368
Lab File ID: VL042646.D BFB Injection Date: 06/19/2025
Instrument ID: MSVOA_L BFB Injection Time: 08:10
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.8
75	30.0 - 66.0% of mass 95	55.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1.3) 1
174	50.0 - 120.0% of mass 95	59.4
175	4.0 - 9.0% of mass 174	4 (6.7) 1
176	93.0 - 101.0% of mass 174	57.6 (97) 1
177	5.0 - 9.0% of mass 176	3.7 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042647.D	06/19/2025	08:56
VL0619ABL01	VL0619ABL01	VL042648.D	06/19/2025	09:42
VL0619ABS01	VL0619ABS01	VL042649.D	06/19/2025	10:26
IA1	Q2368-02	VL042654.D	06/19/2025	14:36
SV1	Q2368-01	VL042655.D	06/19/2025	15:09
IA1DL	Q2368-02DL	VL042660.D	06/19/2025	18:00
SV1DUP	Q2368-01DUP	VL042661.D	06/20/2025	07:50

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q2368 SAS No.: Q2368 SDG NO.: Q2368
 Lab File ID: VL042647.D Date Analyzed: 06/19/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:56
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	105774	2.80	271342	3.98	241435	8.90
UPPER LIMIT	148084	3.13	379879	4.31	338009	9.23
LOWER LIMIT	63464.4	2.47	162805	3.65	144861	8.57
EPA SAMPLE NO.						
SV1	107855	2.80	293235	3.98	269229	8.90
SV1DUP	107720	2.79	272851	3.97	266896	8.89
IA1	110926	2.80	297809	3.99	265686	8.91
IA1DL	108048	2.80	274999	3.98	237440	8.90
VL0619ABL01	105000	2.80	273905	3.98	233634	8.90
VL0619ABS01	107593	2.80	277113	3.98	244062	8.90

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
 AREA LOWER LIMIT = -40% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q2368 SAS No.: Q2368 SDG NO.: Q2368
 Lab File ID: VL042647.D Date Analyzed: 06/19/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:56
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
SV1	0	0.00				
SV1DUP	0	0.00				
IA1	0	0.00				
IA1DL	0	0.00				
VL0619ABL01	0	0.00				
VL0619ABS01	0	0.00				

IS4 =

AREA UPPER LIMIT = +40% of internal standard area

AREA LOWER LIMIT = -40% of internal standard area

RT UPPER LIMIT = +0.33 minutes of internal standard RT

RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	06/18/25
Project:	1426 Ogden Ave, Bronx NY	Date Received:	06/19/25
Client Sample ID:	SV1	SDG No.:	Q2368
Lab Sample ID:	Q2368-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042655.D	10		06/19/25 15:09	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.25	0.64	U	0.64	0.77	ug/m3
142-82-5	Heptane	19.7	80.7		6.97	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.50	5.95	U	5.95	19.8	ug/m3
110-82-7	Cyclohexane	2.20	7.57	U	7.57	17.2	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	U	3.93	19.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.16	0.87	U	0.87	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	U	6.54	23.4	ug/m3
71-43-2	Benzene	2.00	6.39	J	2.52	16.0	ug/m3
79-01-6	Trichloroethene	0.24	1.29	U	1.29	1.61	ug/m3
108-88-3	Toluene	27.6	104		6.03	18.8	ug/m3
127-18-4	Tetrachloroethene	1.40	9.49		1.02	2.03	ug/m3
100-41-4	Ethyl Benzene	5.80	25.2		8.25	21.7	ug/m3
179601-23-1	m/p-Xylene	42.5	185		17.8	43.4	ug/m3
95-47-6	o-Xylene	16.8	73.0		9.12	21.7	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	U	8.85	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.30	35.9		8.85	24.6	ug/m3
91-20-3	Naphthalene	0.13	0.68	U	0.68	5.24	ug/m3
110-54-3	Hexane	67.9	239		5.64	17.6	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	108000			2.797		
540-36-3	1,4-Difluorobenzene	293000			3.975		
3114-55-4	Chlorobenzene-d5	269000			8.898		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042655.D
 Acq On : 19 Jun 2025 15:09
 Operator : SY/MD
 Sample : Q2368-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:38:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	107855	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	293235	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.898	117	269229	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	206728	10.243	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.400%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	2449	0.333	ppbv #	80
10) Heptane	5.004	43	40824	1.970	ppbv	98
13) Ethanol	1.725	45	3713	4.238	ppbv	100
15) Acetone	1.842	43	29355	2.260	ppbv	94
20) Methylene Chloride	2.072	84	976	0.228	ppbv #	53
26) Hexane	2.835	57	109668	6.789	ppbv #	41
27) Carbon Disulfide	2.159	76	1413	0.114	ppbv #	54
29) Chloroform	2.858	83	29238	1.392	ppbv	95
30) Cyclohexane	3.868	84	2582m	0.193	ppbv	
34) 2-Butanone	2.567	43	26717	1.278	ppbv	96
36) Benzene	3.667	78	5662	0.196	ppbv	97
41) Tetrahydrofuran	3.075	42	7342m	0.600	ppbv	
51) 2-Hexanone	7.457	43	111899	4.864	ppbv #	69
52) Tetrachloroethene	8.244	164	1484m	0.138	ppbv	
53) Toluene	6.952	91	92112	2.760	ppbv	99
58) Ethyl Benzene	9.373	91	26427	0.579	ppbv	93
59) m/p-Xylene	9.548	91	152600	4.246	ppbv	98
60) o-Xylene	9.982	91	60051	1.675	ppbv	96
62) Isopropylbenzene	10.555	105	14294	0.270	ppbv	98
72) 4-Ethyltoluene	11.141	105	15820	0.354	ppbv #	55
74) 1,2,4-Trimethylbenzene	11.548	105	30144	0.734	ppbv #	69

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

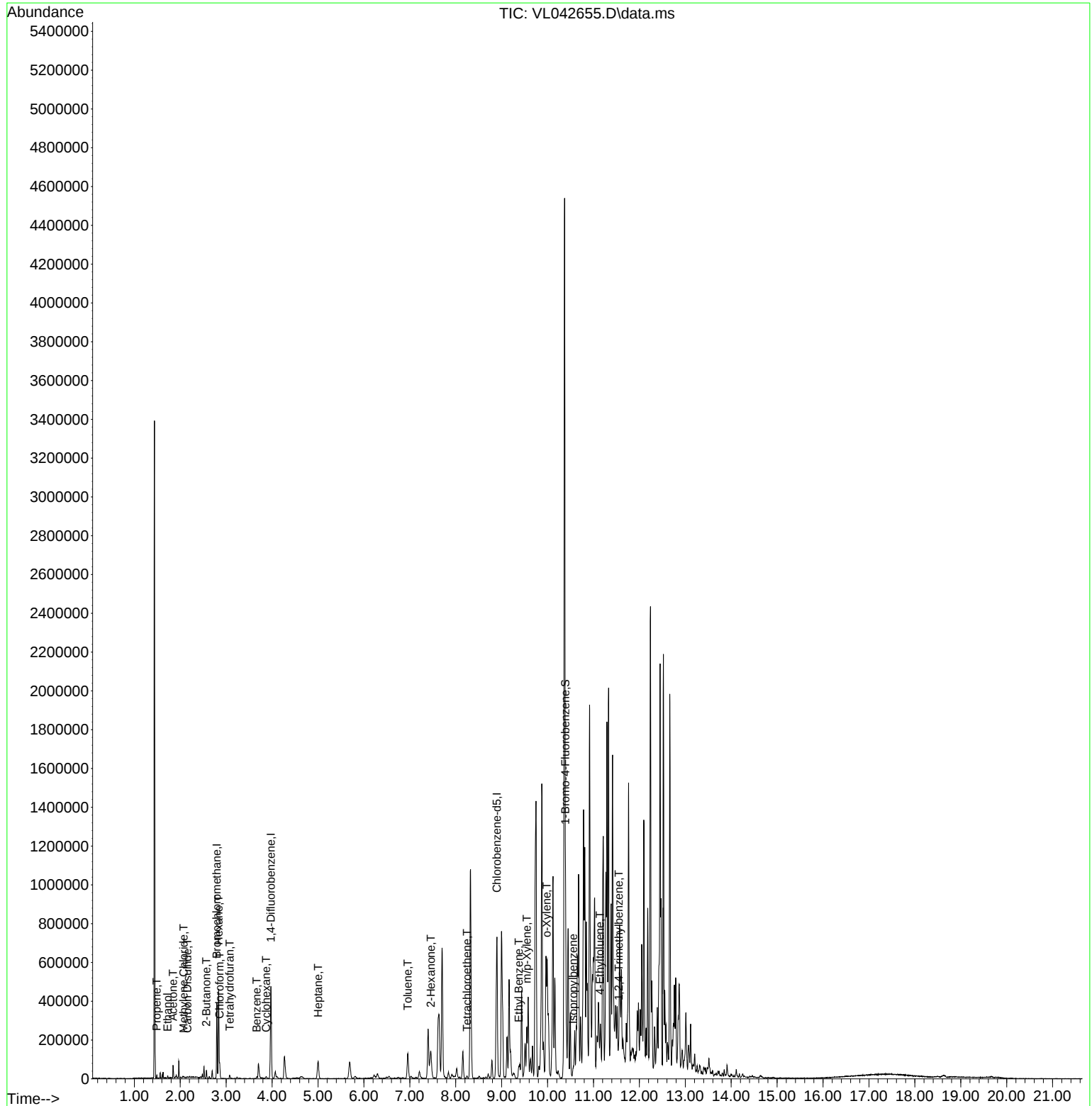
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042655.D
Acq On : 19 Jun 2025 15:09
Operator : SY/MD
Sample : Q2368-01 10X
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

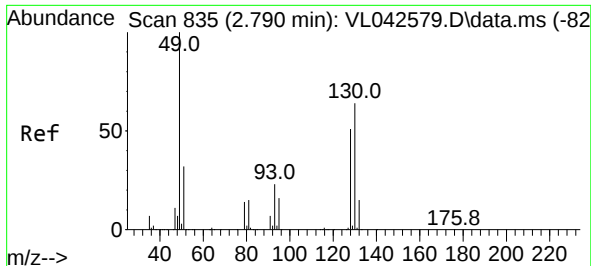
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 06/23/2025
Supervised By : Mahesh Dadoda 06/23/2025

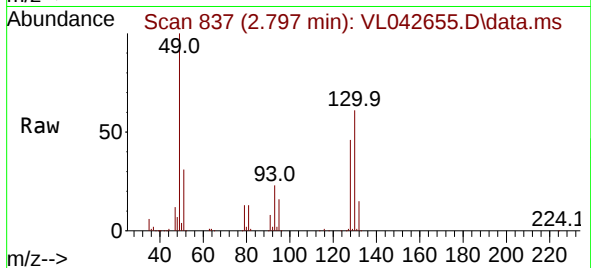
Quant Time: Jun 20 01:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

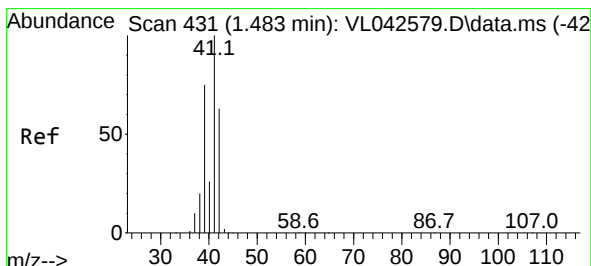
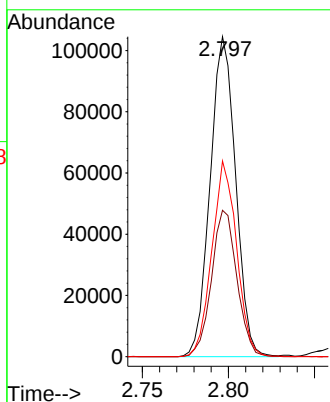
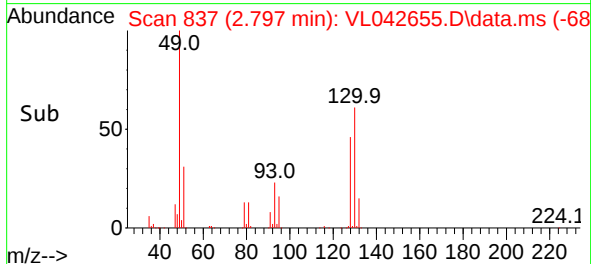
Instrument :
MSVOA_L
ClientSampleId :
SV1



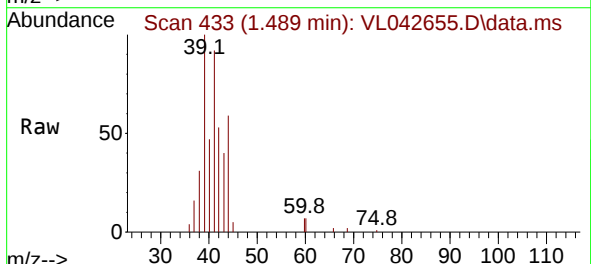
Tgt Ion: 49 Resp: 10785
Ion Ratio Lower Upper
49 100
128 45.6 24.2 72.6
130 59.2 30.4 91.2

Manual Integrations
APPROVED

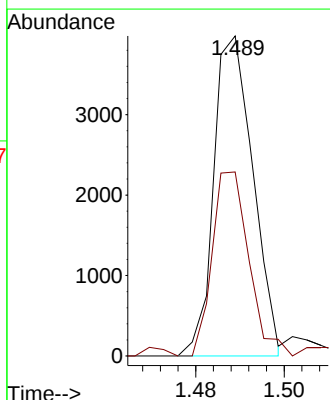
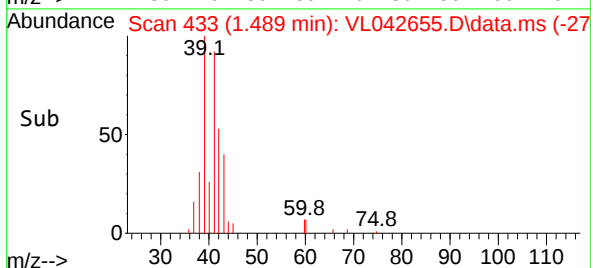
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

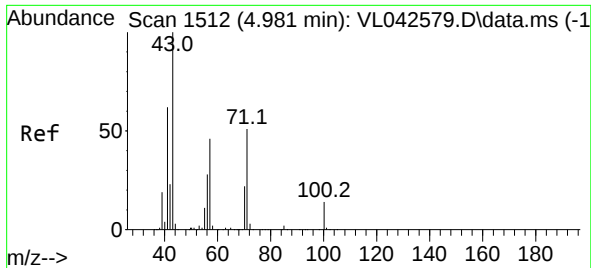


#9
Propene
Concen: 0.333 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09



Tgt Ion: 41 Resp: 2449
Ion Ratio Lower Upper
41 100
42 50.6 53.3 79.9#





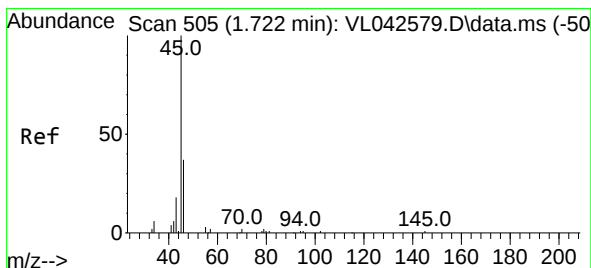
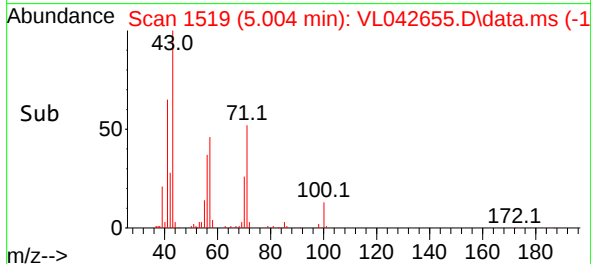
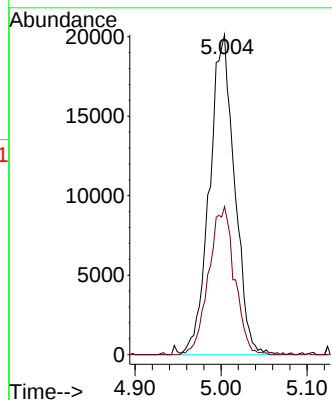
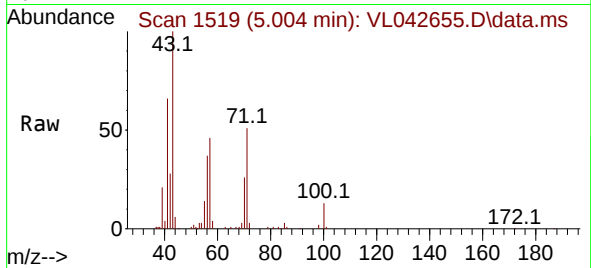
#10
Heptane
Concen: 1.970 ppbv
RT: 5.004 min Scan# 11
Delta R.T. 0.022 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 40824
Ion Ratio Lower Upper
43 100
57 47.4 38.9 58.3

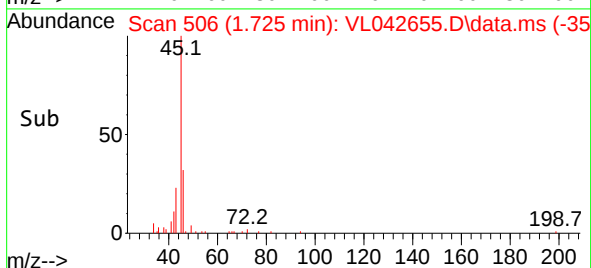
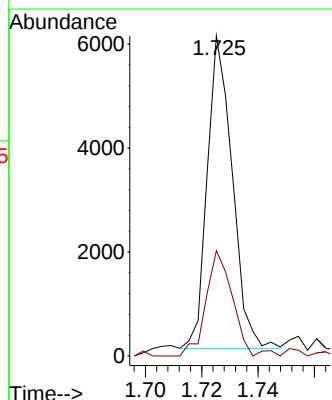
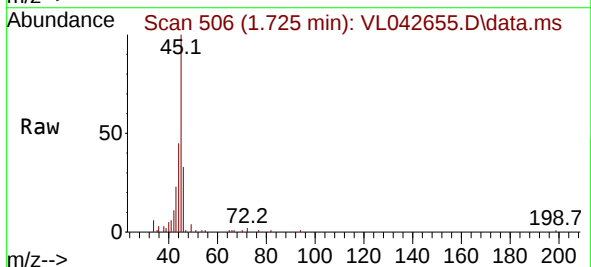
Manual Integrations
APPROVED

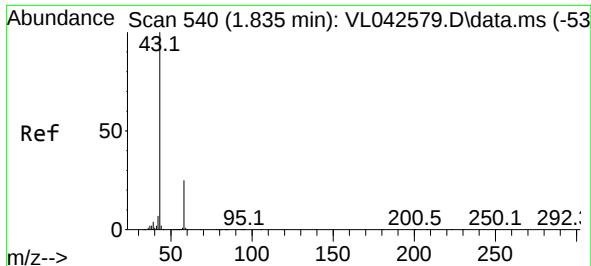
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#13
Ethanol
Concen: 4.238 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

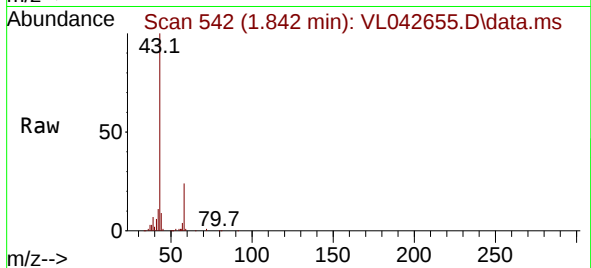
Tgt Ion: 45 Resp: 3713
Ion Ratio Lower Upper
45 100
46 36.5 14.5 58.1





#15
Acetone
Concen: 2.260 ppbv
RT: 1.842 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

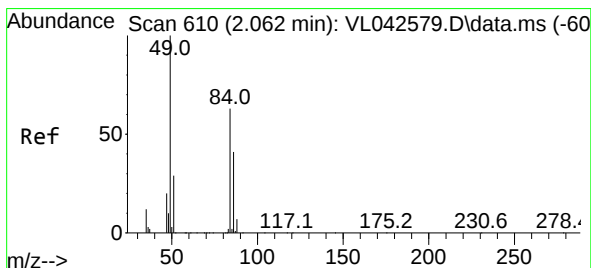
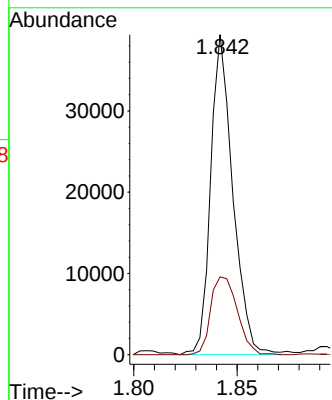
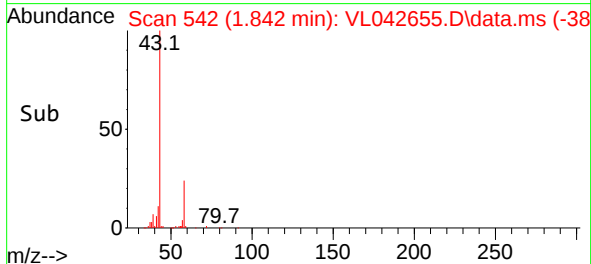
Instrument :
MSVOA_L
ClientSampleId :
SV1



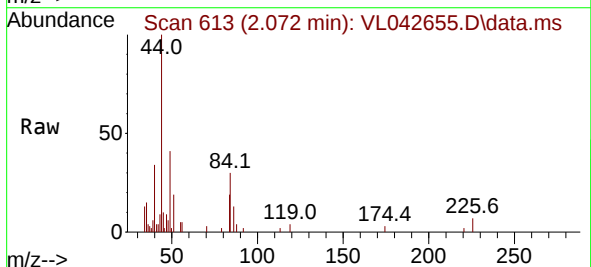
Tgt Ion: 43 Resp: 2935
Ion Ratio Lower Upper
43 100
58 29.2 21.0 31.4

Manual Integrations
APPROVED

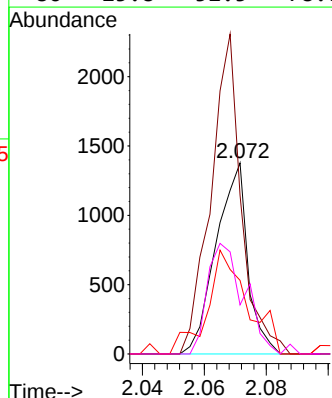
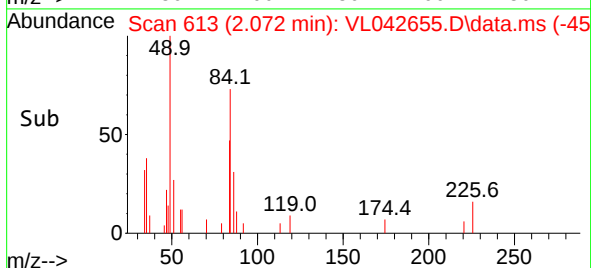
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

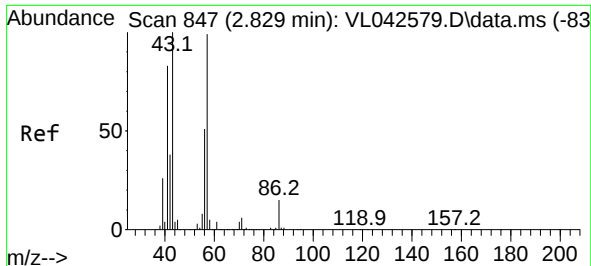


#20
Methylene Chloride
Concen: 0.228 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09



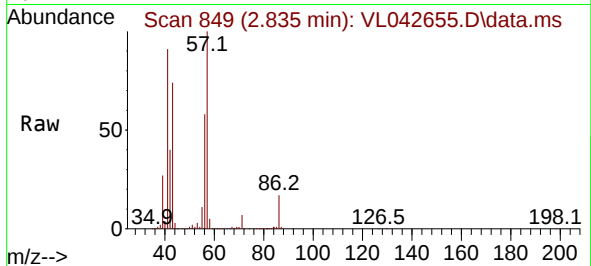
Tgt Ion: 84 Resp: 976
Ion Ratio Lower Upper
84 100
49 88.0 128.8 193.2#
51 38.5 38.6 57.8#
86 25.8 52.5 78.7#





#26
Hexane
Concen: 6.789 ppbv
RT: 2.835 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

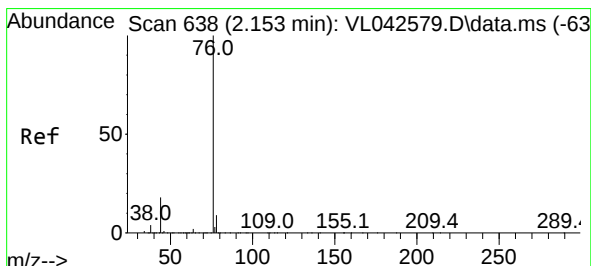
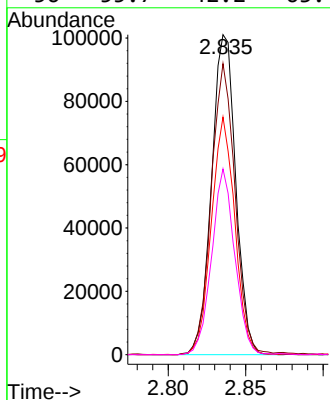
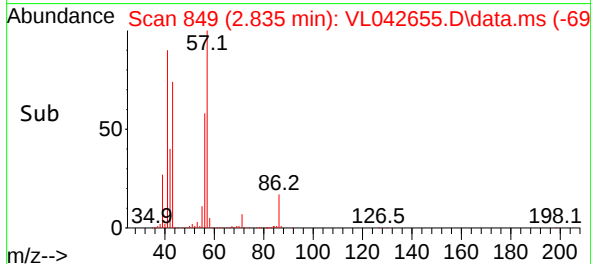
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 109668
Ion Ratio Lower Upper
57 100
41 90.5 70.6 106.0
43 72.4 181.1 271.7
56 55.7 42.2 63.4

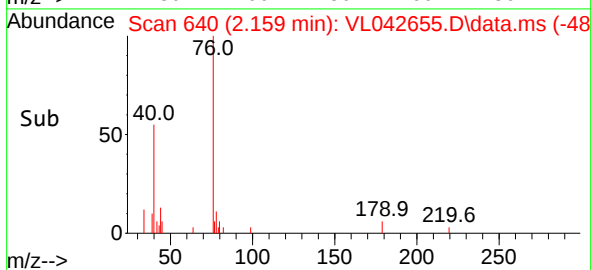
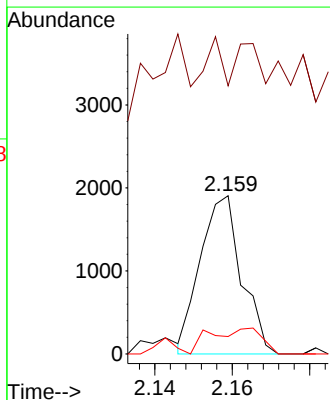
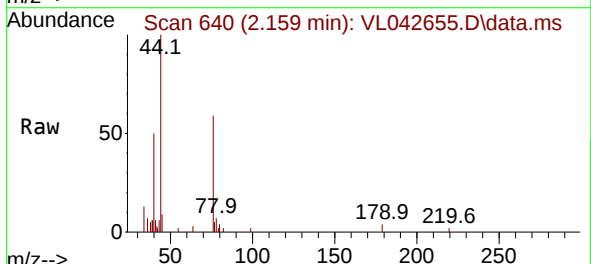
Manual Integrations
APPROVED

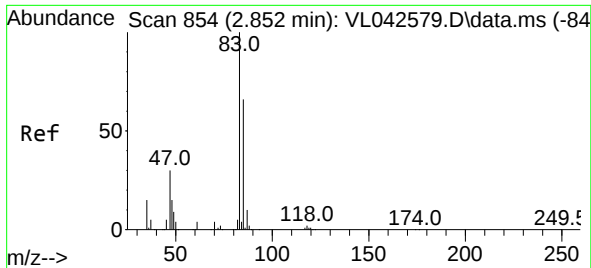
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#27
Carbon Disulfide
Concen: 0.114 ppbv
RT: 2.159 min Scan# 640
Delta R.T. 0.006 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

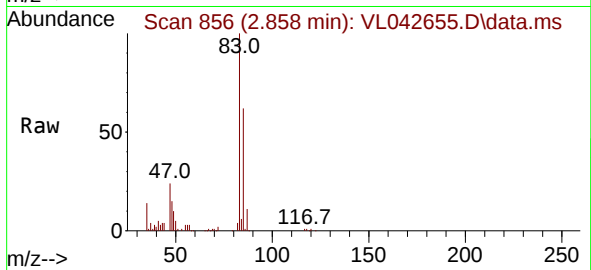
Tgt Ion: 76 Resp: 1413
Ion Ratio Lower Upper
76 100
44 0.0 21.3 31.9#
78 25.1 9.4 14.0#





#29
Chloroform
Concen: 1.392 ppbv
RT: 2.858 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

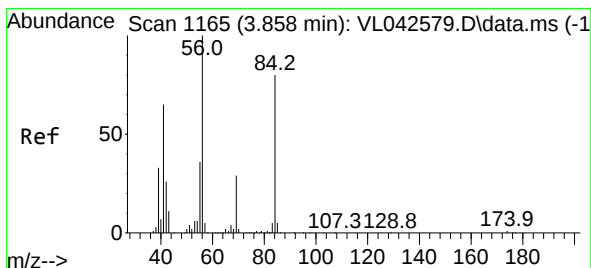
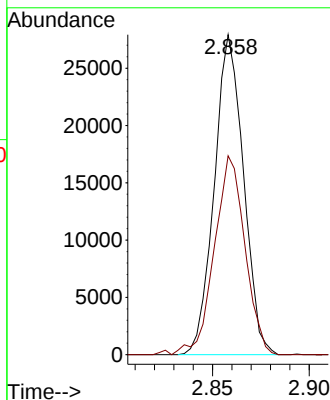
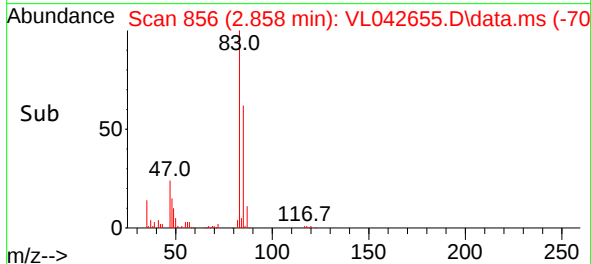
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 83 Resp: 29238
Ion Ratio Lower Upper
83 100
85 62.2 52.8 79.2

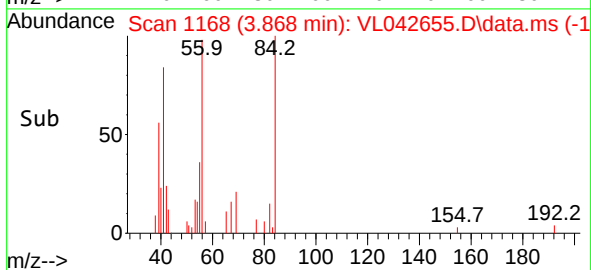
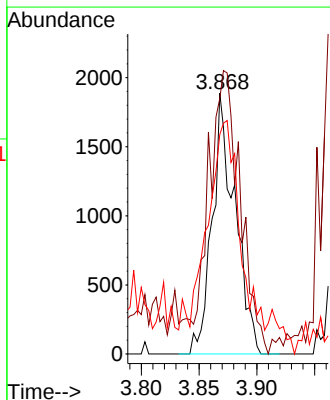
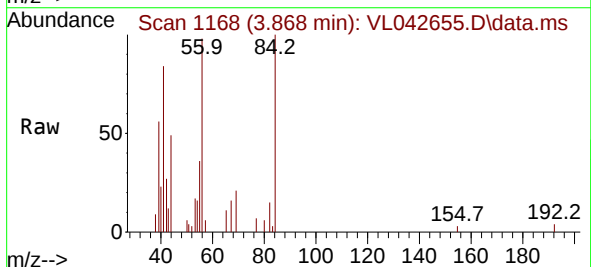
Manual Integrations
APPROVED

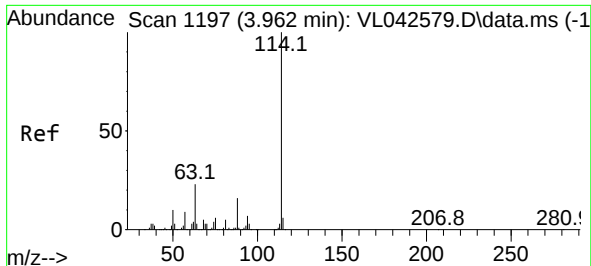
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#30
Cyclohexane
Concen: 0.193 ppbv m
RT: 3.868 min Scan# 1168
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Tgt Ion: 84 Resp: 2582
Ion Ratio Lower Upper
84 100
56 162.9 103.7 155.5#
41 143.5 65.1 97.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1197

Delta R.T. 0.013 min

Lab File: VL042655.D

Acq: 19 Jun 2025 15:09

Instrument :

MSVOA_L

ClientSampleId :

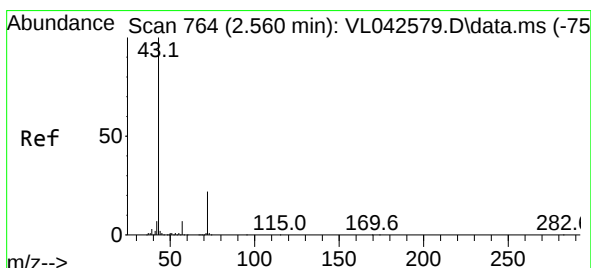
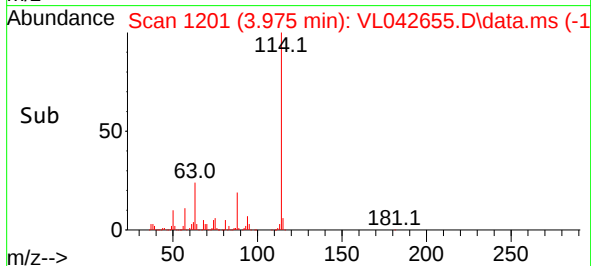
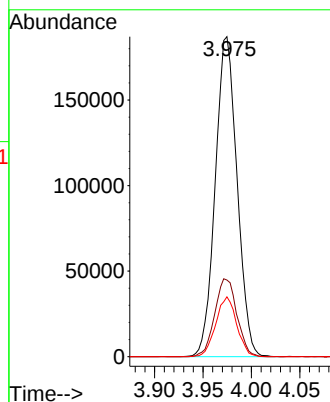
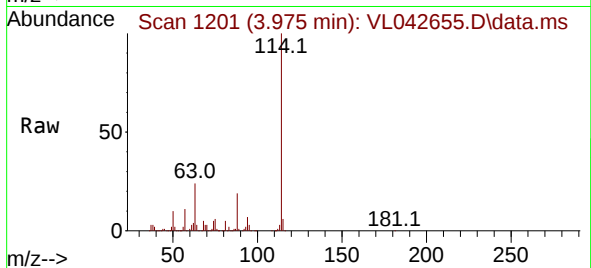
SV1

Tgt Ion:114 Resp: 293235
 Ion Ratio Lower Upper
 114 100
 63 24.8 19.0 28.6
 88 18.0 13.6 20.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#34

2-Butanone

Concen: 1.278 ppbv

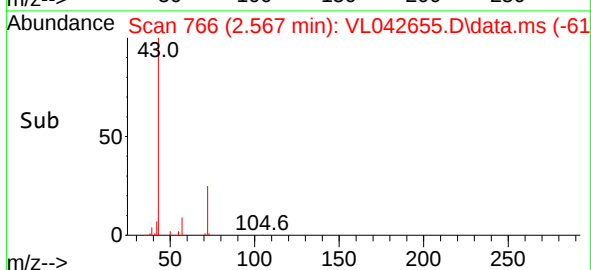
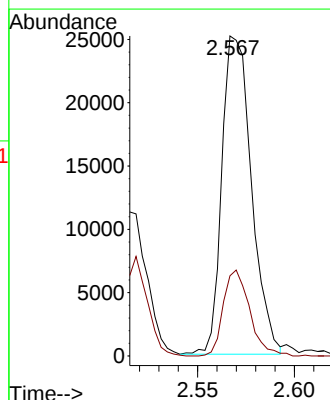
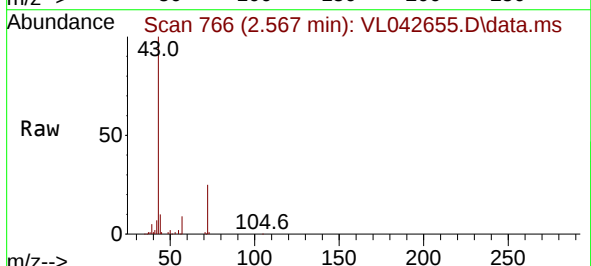
RT: 2.567 min Scan# 766

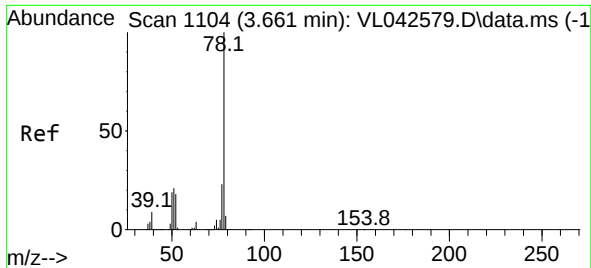
Delta R.T. 0.006 min

Lab File: VL042655.D

Acq: 19 Jun 2025 15:09

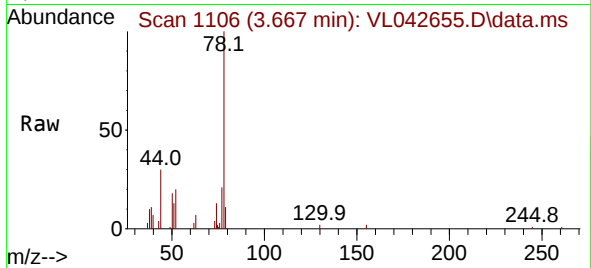
Tgt Ion: 43 Resp: 26717
 Ion Ratio Lower Upper
 43 100
 72 24.2 17.7 26.5





#36
Benzene
Concen: 0.196 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

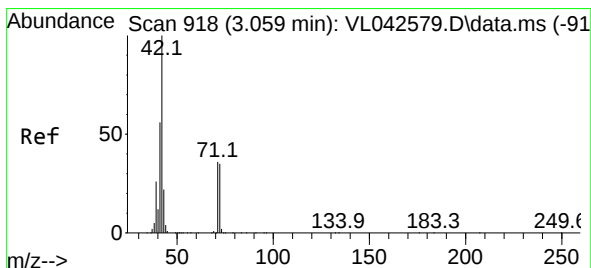
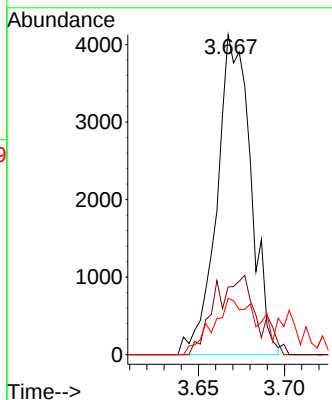
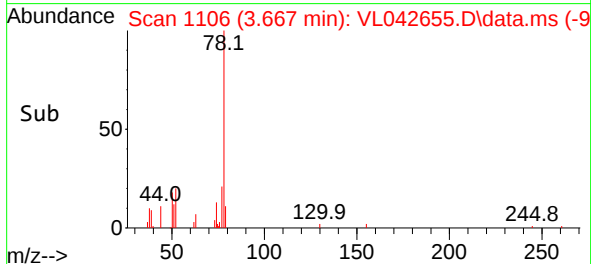
Instrument :
MSVOA_L
ClientSampleId :
SV1



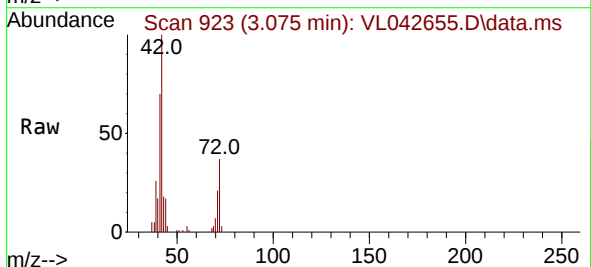
Tgt Ion: 78 Resp: 566
Ion Ratio Lower Upper
78 100
77 21.2 18.2 27.2
50 17.6 15.2 22.8

Manual Integrations
APPROVED

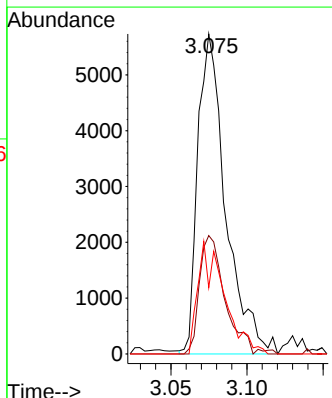
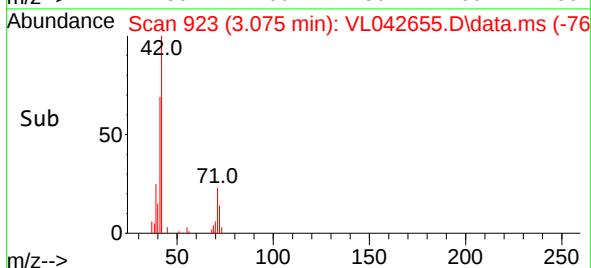
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

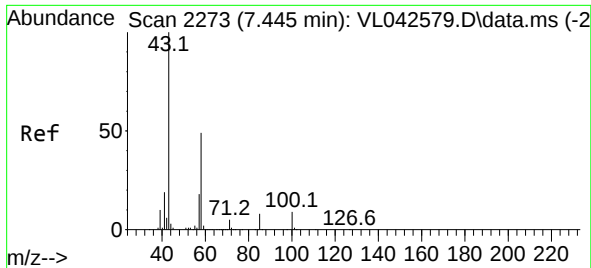


#41
Tetrahydrofuran
Concen: 0.600 ppbv m
RT: 3.075 min Scan# 923
Delta R.T. 0.016 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09



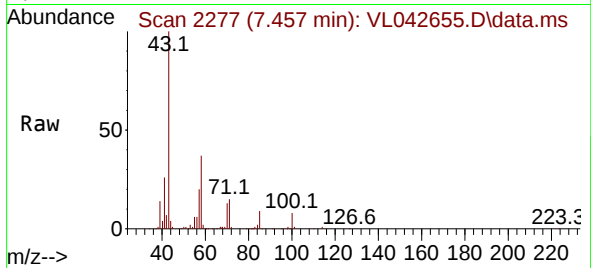
Tgt Ion: 42 Resp: 7342
Ion Ratio Lower Upper
42 100
72 34.1 28.9 43.3
71 32.9 28.5 42.7





#51
2-Hexanone
Concen: 4.864 ppbv
RT: 7.457 min Scan# 21189
Delta R.T. 0.013 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

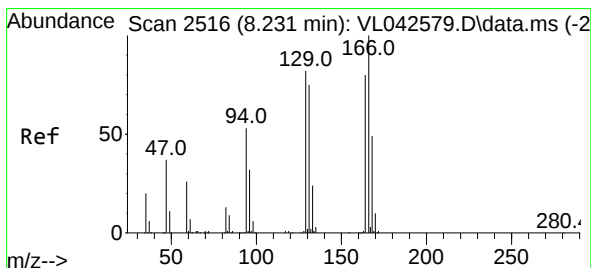
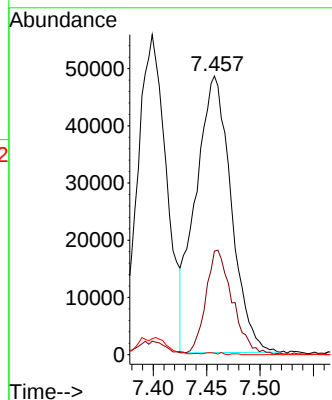
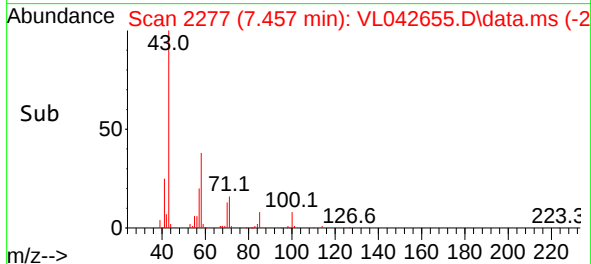
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 11189
Ion Ratio Lower Upper
43 100
58 28.8 39.9 59.9
98 0.0 0.1 0.1

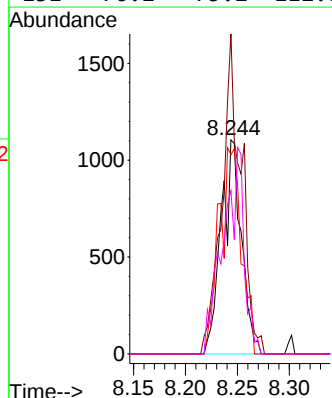
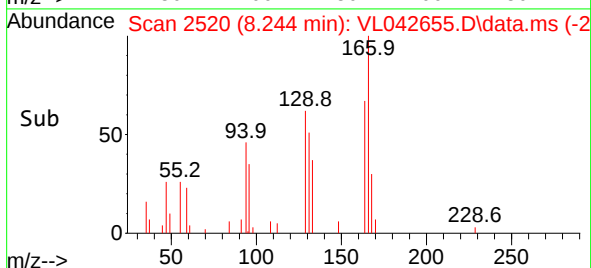
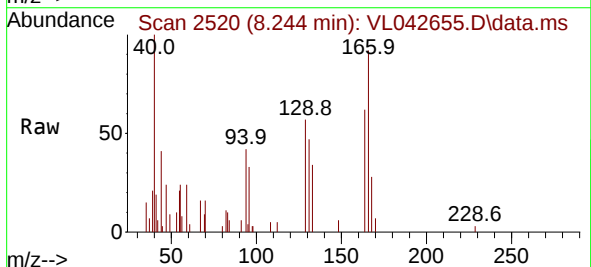
Manual Integrations
APPROVED

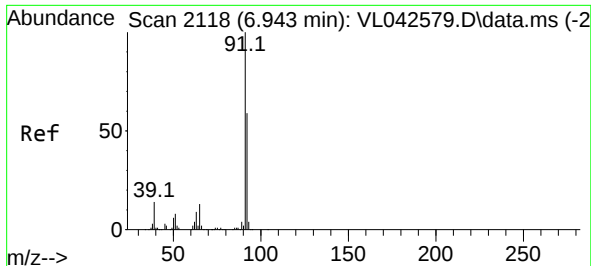
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#52
Tetrachloroethene
Concen: 0.138 ppbv m
RT: 8.244 min Scan# 2520
Delta R.T. 0.013 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Tgt Ion:164 Resp: 1484
Ion Ratio Lower Upper
164 100
166 149.5 100.0 150.0
129 93.0 82.2 123.4
131 76.2 75.2 112.8





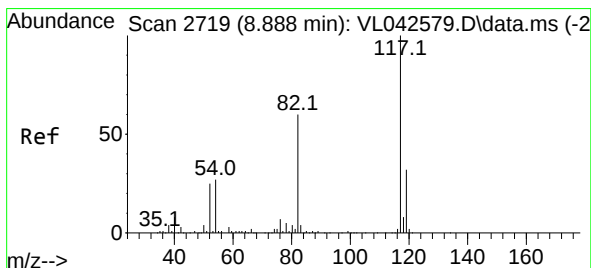
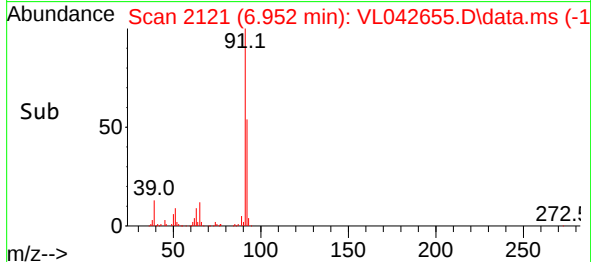
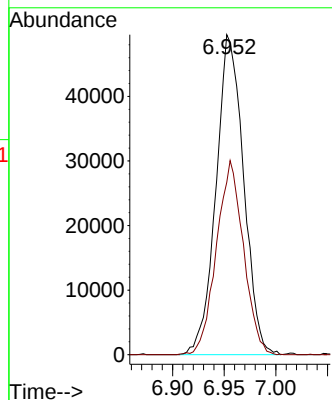
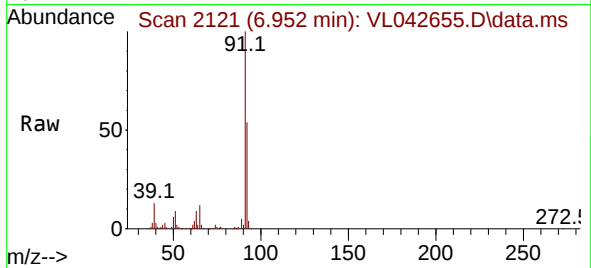
#53
Toluene
Concen: 2.760 ppbv
RT: 6.952 min Scan# 2111
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 9211
Ion Ratio Lower Upper
91 100
92 59.5 48.2 72.4

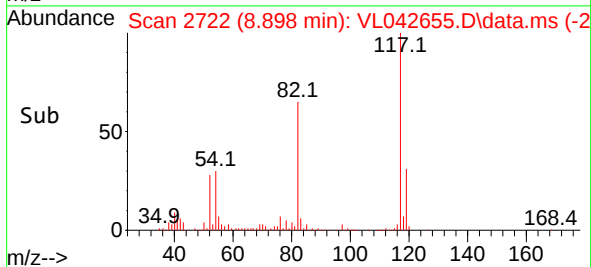
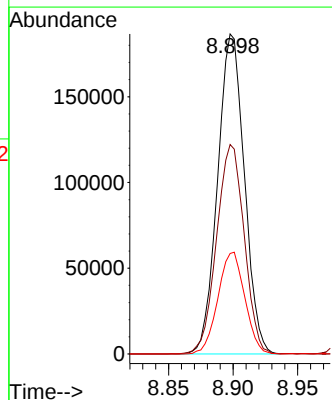
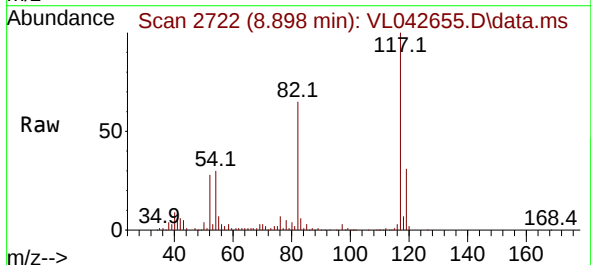
Manual Integrations
APPROVED

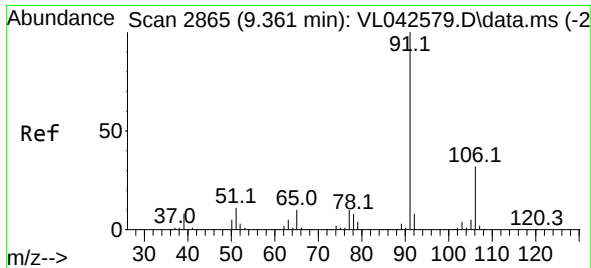
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Tgt Ion:117 Resp: 269229
Ion Ratio Lower Upper
117 100
82 67.5 51.2 76.8
119 31.9 26.3 39.5





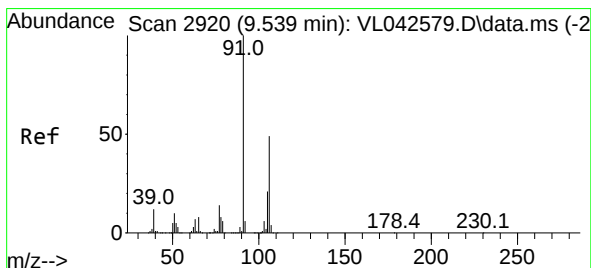
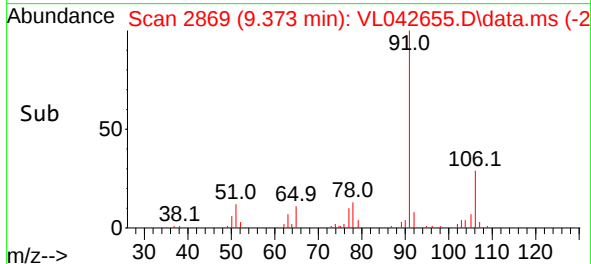
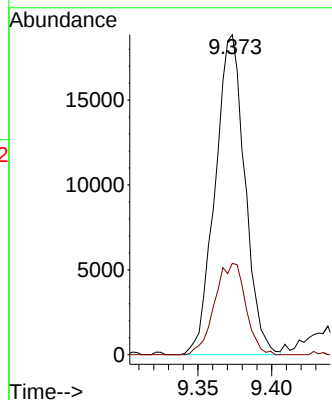
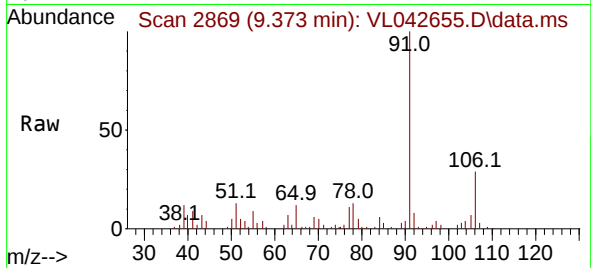
#58
Ethyl Benzene
Concen: 0.579 ppbv
RT: 9.373 min Scan# 2865
Delta R.T. 0.013 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 2642
Ion Ratio Lower Upper
91 100
106 28.6 25.9 38.9

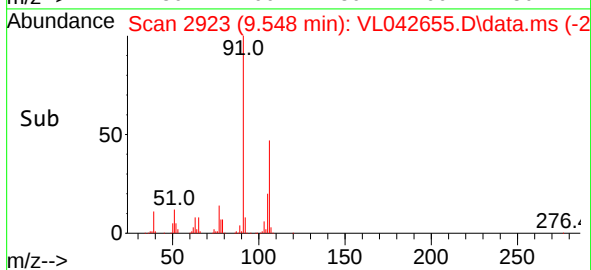
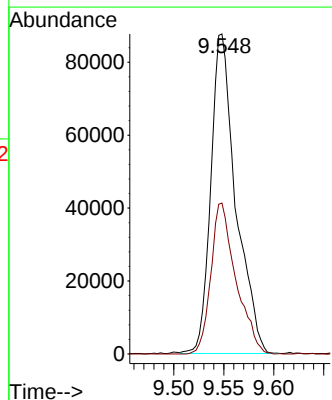
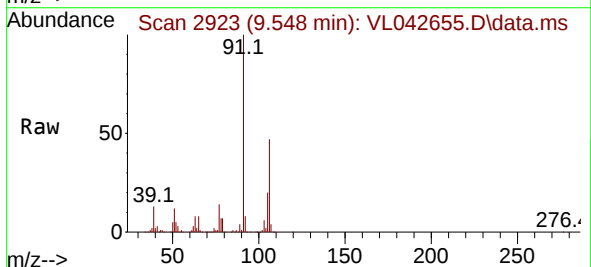
Manual Integrations
APPROVED

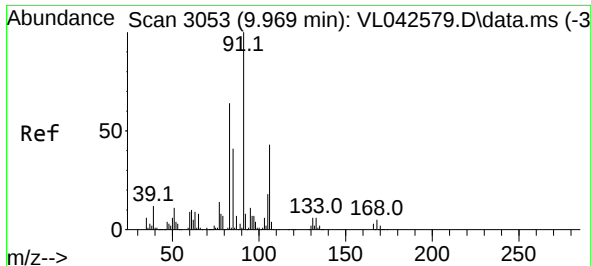
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#59
m/p-Xylene
Concen: 4.246 ppbv
RT: 9.548 min Scan# 2923
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Tgt Ion: 91 Resp: 152600
Ion Ratio Lower Upper
91 100
106 47.3 38.8 58.2





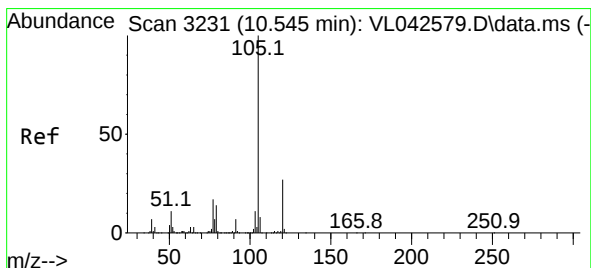
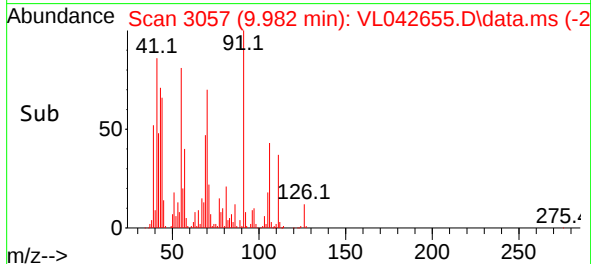
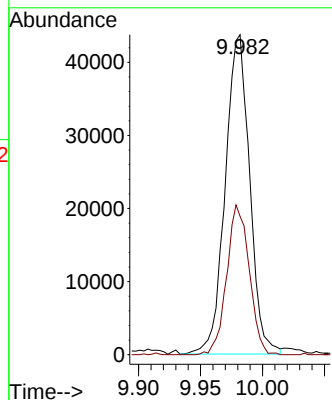
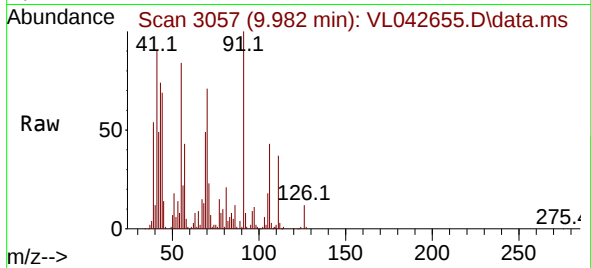
#60
o-Xylene
Concen: 1.675 ppbv
RT: 9.982 min Scan# 3053
Delta R.T. 0.013 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 6005
Ion Ratio Lower Upper
91 100
106 43.1 22.9 68.5

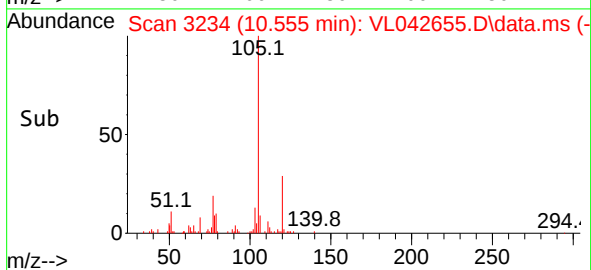
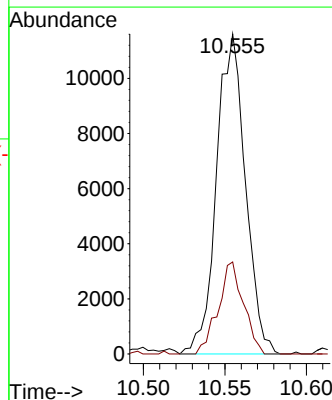
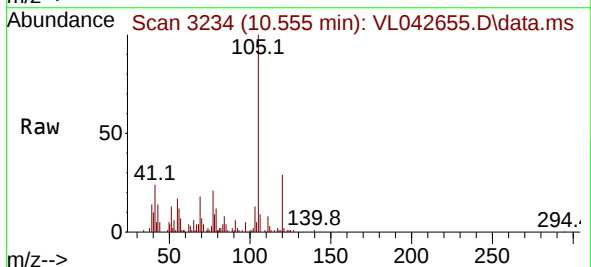
Manual Integrations
APPROVED

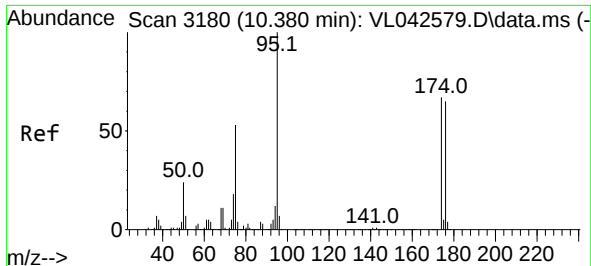
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#62
Isopropylbenzene
Concen: 0.270 ppbv
RT: 10.555 min Scan# 3234
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

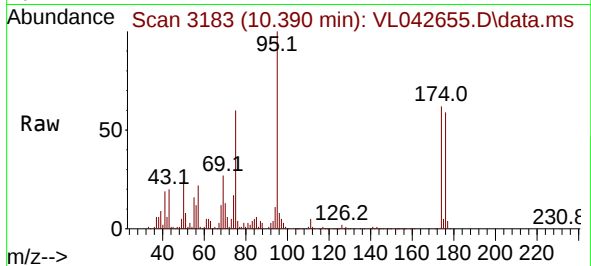
Tgt Ion:105 Resp: 14294
Ion Ratio Lower Upper
105 100
120 25.2 20.9 31.3





#68
1-Bromo-4-Fluorobenzene
Concen: 10.243 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

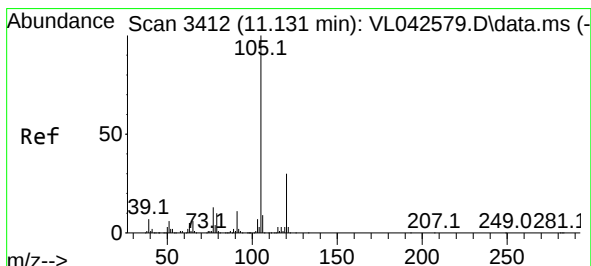
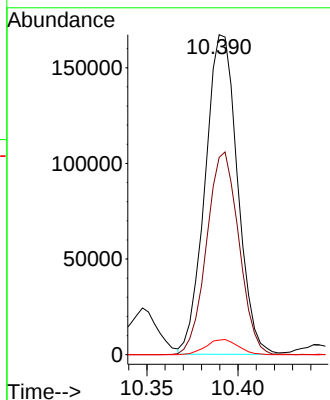
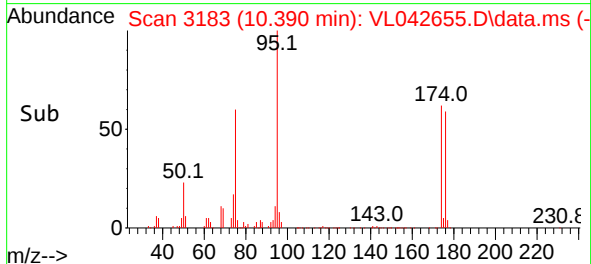
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 95 Resp: 206728
Ion Ratio Lower Upper
95 100
174 63.2 53.1 79.7
175 4.7 4.2 6.2

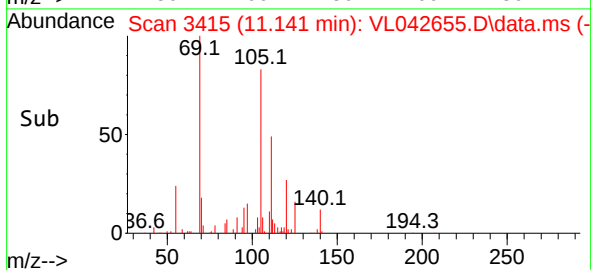
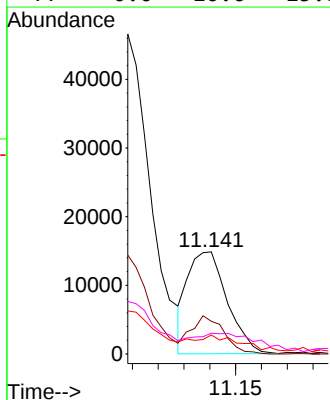
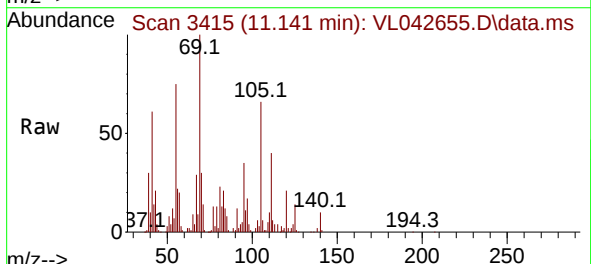
Manual Integrations
APPROVED

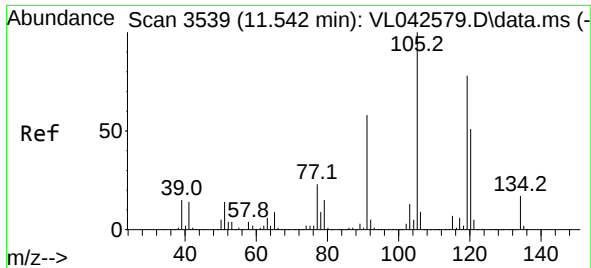
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#72
4-Ethyltoluene
Concen: 0.354 ppbv
RT: 11.141 min Scan# 3415
Delta R.T. 0.010 min
Lab File: VL042655.D
Acq: 19 Jun 2025 15:09

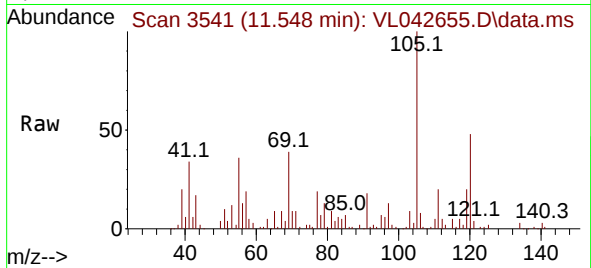
Tgt Ion:105 Resp: 15820
Ion Ratio Lower Upper
105 100
120 0.0 24.6 36.8#
91 0.0 9.6 14.4#
77 0.0 10.6 15.8#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.734 ppbv
 RT: 11.548 min Scan# 3541
 Delta R.T. 0.006 min
 Lab File: VL042655.D
 Acq: 19 Jun 2025 15:09

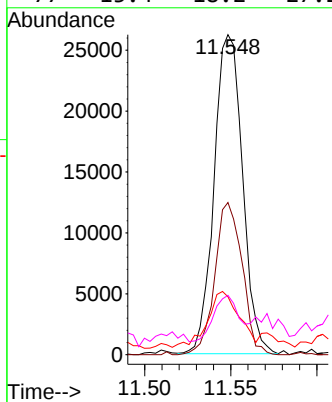
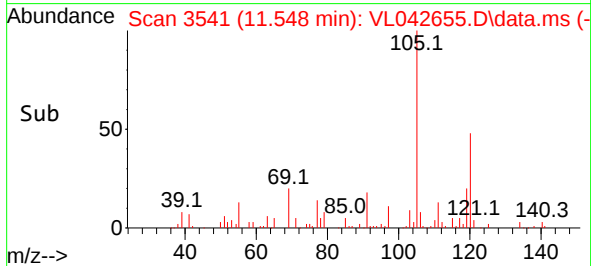
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:	105	Resp:	30144
Ion Ratio	Lower	Upper	
105	100		
120	47.7	40.8	61.2
91	14.9	46.8	70.2
77	13.4	18.2	27.2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	06/18/25
Project:	1426 Ogden Ave, Bronx NY	Date Received:	06/19/25
Client Sample ID:	IA1	SDG No.:	Q2368
Lab Sample ID:	Q2368-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042654.D	1		06/19/25 14:36	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.040	0.10		0.080	0.080	ug/m3
142-82-5	Heptane	3.00	12.3		0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
110-82-7	Cyclohexane	2.00	6.88		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.30	1.19	J	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	4.00	18.7		0.65	2.34	ug/m3
71-43-2	Benzene	5.00	16.0		0.26	1.60	ug/m3
79-01-6	Trichloroethene	0.23	1.24		0.11	0.16	ug/m3
108-88-3	Toluene	22.5	84.8	E	0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	160	1080	E	0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	5.80	25.2		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	21.0	91.2		1.78	4.34	ug/m3
95-47-6	o-Xylene	8.10	35.2		0.91	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.20	5.90		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.90	19.2		0.88	2.46	ug/m3
91-20-3	Naphthalene	0.24	1.26		0.050	0.52	ug/m3
110-54-3	Hexane	8.50	30.0		0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	111000			2.803		
540-36-3	1,4-Difluorobenzene	298000			3.985		
3114-55-4	Chlorobenzene-d5	266000			8.908		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042654.D
 Acq On : 19 Jun 2025 14:36
 Operator : SY/MD
 Sample : Q2368-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/23/2025
 Supervised By : Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:38:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	110926	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.985	114	297809	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.908	117	265686	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.397	95	210213	10.555	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.506	85	6377	0.468	ppbv	96
3) Chlorodifluoromethane	1.483	51	10882m	0.580	ppbv	
4) Chloromethane	1.538	50	4217	0.781	ppbv	97
5) Vinyl Chloride	1.590	62	228	0.041	ppbv #	64
9) Propene	1.493	41	45621	6.033	ppbv #	76
10) Heptane	5.011	43	64933	3.046	ppbv	99
11) Trichlorofluoromethane	1.888	101	3436m	0.271	ppbv	
13) Ethanol	1.739	45	2411786	2676.402	ppbv	73
15) Acetone	1.845	43	410602m	30.730	ppbv	
19) Isopropyl Alcohol	1.897	45	72050	9.020	ppbv #	1
20) Methylene Chloride	2.075	84	3118	0.707	ppbv #	59
26) Hexane	2.842	57	141631	8.524	ppbv	82
29) Chloroform	2.865	83	25995	1.203	ppbv	93
30) Cyclohexane	3.881	84	28176	2.046	ppbv	94
31) cis-1,2-Dichloroethene	2.739	61	4593	0.302	ppbv #	85
34) 2-Butanone	2.570	43	27969	1.317	ppbv	97
35) Carbon Tetrachloride	3.784	117	1706m	0.087	ppbv	
36) Benzene	3.677	78	145194	4.951	ppbv	98
38) Trichloroethene	4.571	130	2806m	0.225	ppbv	
41) Tetrahydrofuran	3.075	42	7319m	0.589	ppbv	
44) 2,2,4-Trimethylpentane	4.668	57	202489	4.037	ppbv	90
50) 4-Methyl-2-Pentanone	5.804	43	16487m	0.560	ppbv	
52) Tetrachloroethene	8.264	164	1758047	160.426	ppbv	98
53) Toluene	6.966	91	762011	22.482	ppbv	99
58) Ethyl Benzene	9.377	91	262805	5.831	ppbv	94
59) m/p-Xylene	9.555	91	745066	21.008	ppbv	97
60) o-Xylene	9.986	91	285317	8.066	ppbv	97
61) Styrene	9.895	104	26386	1.578	ppbv	96
62) Isopropylbenzene	10.558	105	10455	0.200	ppbv	91
64) n-propylbenzene	11.005	120	8498	0.607	ppbv	91
69) p-Isopropyltoluene	11.941	119	8167	0.146	ppbv	95
70) n-Butylbenzene	12.297	91	10981	0.199	ppbv #	46
72) 4-Ethyltoluene	11.141	105	45232	1.026	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.222	105	45144	1.237	ppbv	89
74) 1,2,4-Trimethylbenzene	11.552	105	158301	3.908	ppbv #	64
76) 1,4-Dichlorobenzene	11.688	146	123874	4.883	ppbv	97
79) Naphthalene	13.530	128	9254	0.242	ppbv	97

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

Manual Integrations

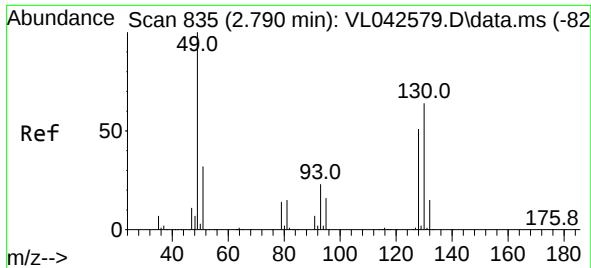
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

Abundance

TIC: VL042654.D\data.ms

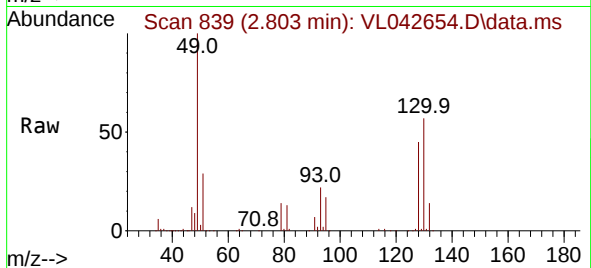
Time-->

Chlorobenzene-d5, I
Ethand
Acetene, T
Methylene Chloride, T
Benzene, T
2-Butanone, T
Dis-Chlorodifluoromethane, I
Tetrahydrofuran, T
Benzene, T
Cyclohexane, T
1,1-Difluorobenzene, I
Trichloroethylene, T
Heptane, T
4-Methyl-2-Pentanone, T
Toluene, T
Tetrahydroethene, T
Chlorobenzene-d5, I
Ethyl Benzene, T
m/p-Xylene, T
Styrene, T
o-Xylene, T
1-Bromo-4-Fluorobenzene, S
Isopropylbenzene
1-Ethyl-3-methylbenzene, T
1,3-Dimethylbenzene, T
1,2,4-Trimethylbenzene, T
p-Isopropyltoluene
n-Butylbenzene
Naphthalene, T



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

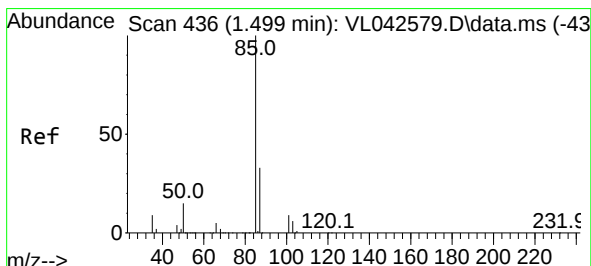
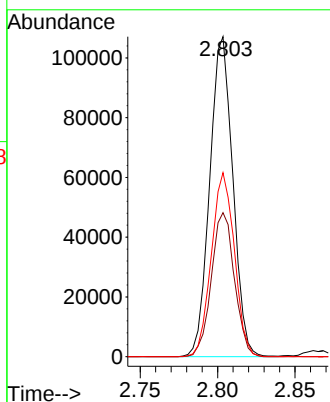
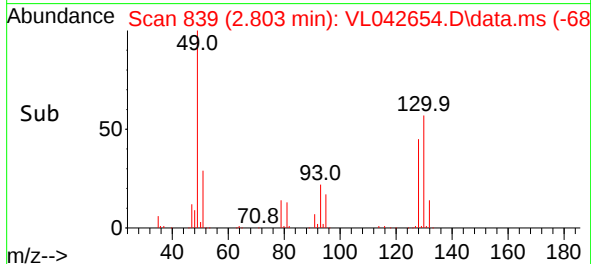
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 110920
Ion Ratio Lower Upper
49 100
128 45.0 24.2 72.6
130 57.3 30.4 91.2

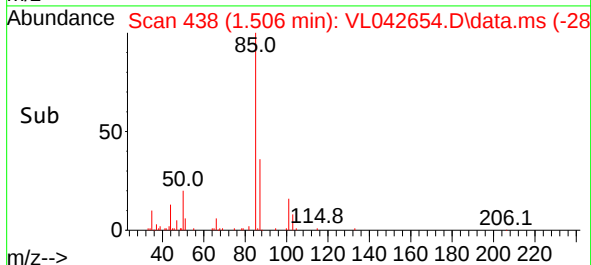
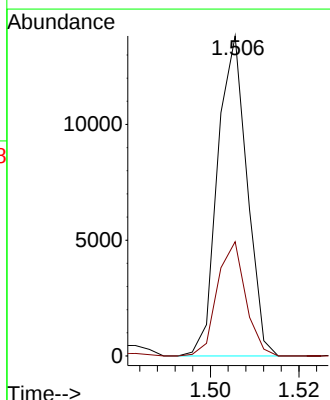
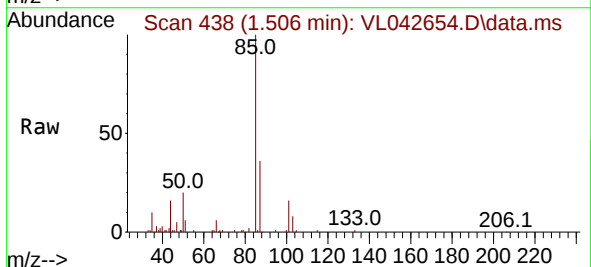
Manual Integrations
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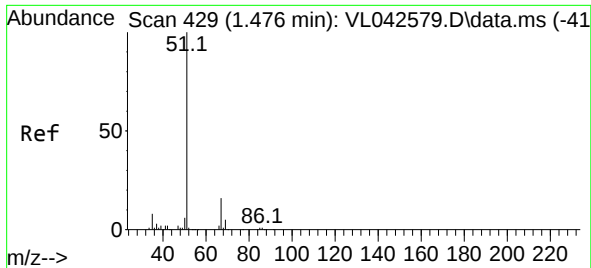
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#2
Dichlorodifluoromethane
Concen: 0.468 ppbv
RT: 1.506 min Scan# 438
Delta R.T. 0.007 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

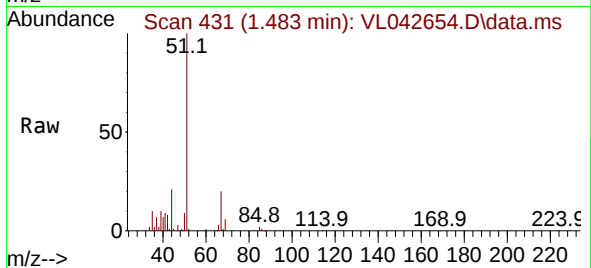
Tgt Ion: 85 Resp: 6377
Ion Ratio Lower Upper
85 100
87 35.7 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.580 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

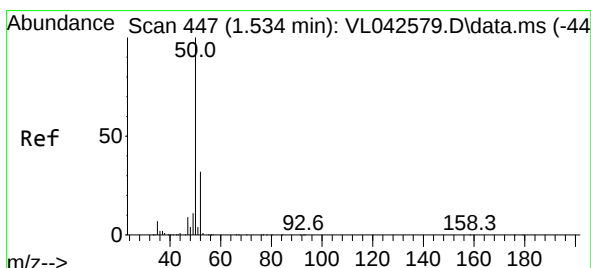
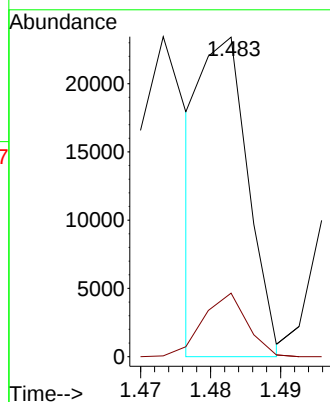
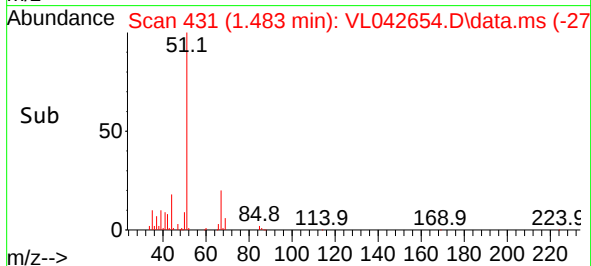
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 1088
Ion Ratio Lower Upper
51 100
67 21.0 13.4 20.2

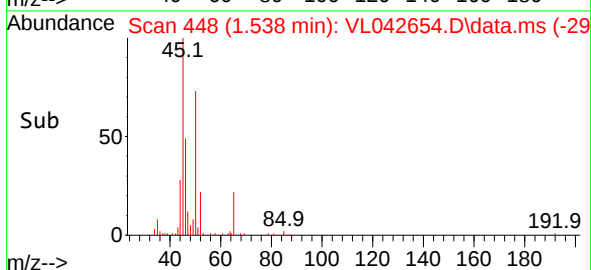
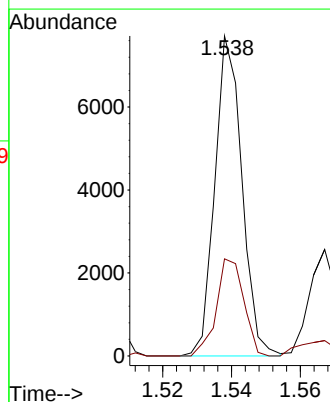
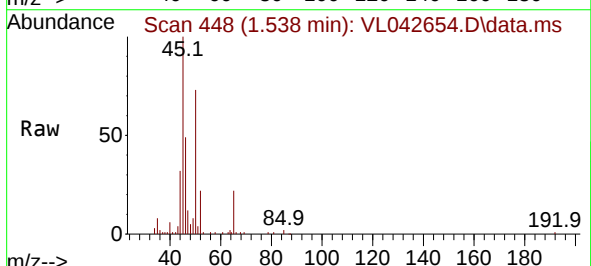
Manual Integrations
APPROVED

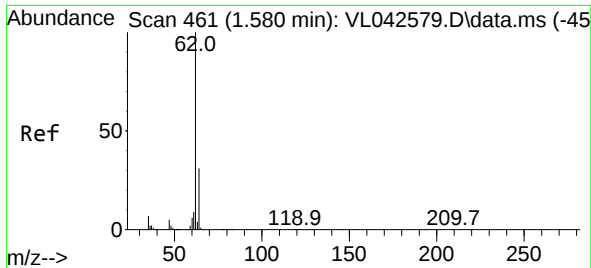
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#4
Chloromethane
Concen: 0.781 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.004 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

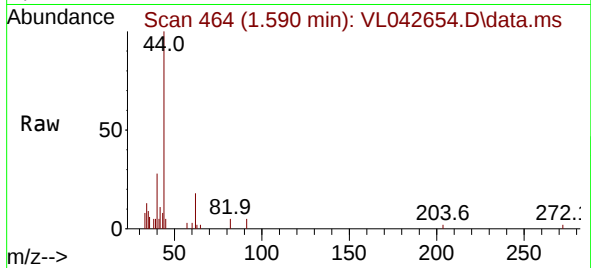
Tgt Ion: 50 Resp: 4217
Ion Ratio Lower Upper
50 100
52 30.4 25.8 38.6





#5
 Vinyl Chloride
 Concen: 0.041 ppbv
 RT: 1.590 min Scan# 40
 Delta R.T. 0.010 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

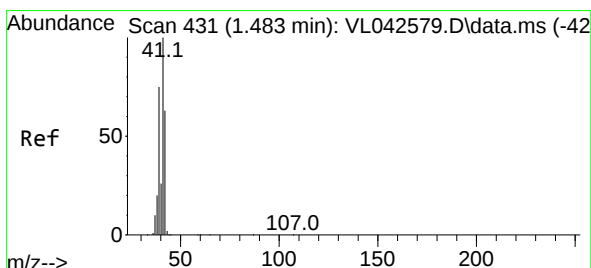
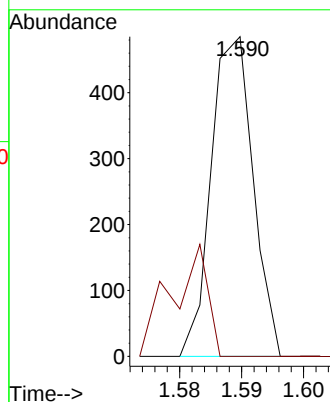
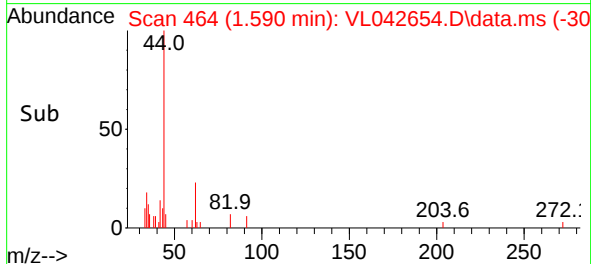
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 62 Resp: 228
 Ion Ratio Lower Upper
 62 100
 64 11.2 24.9 37.3

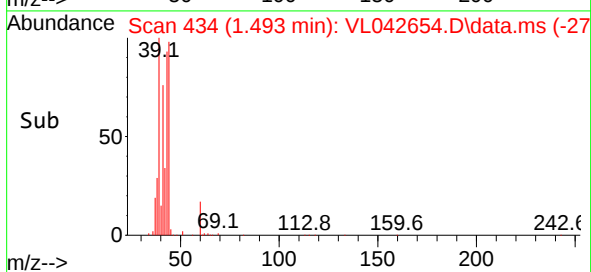
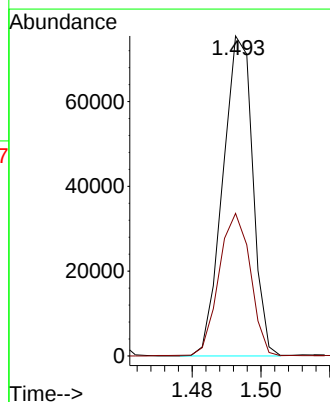
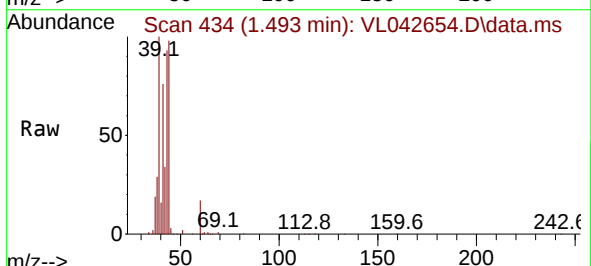
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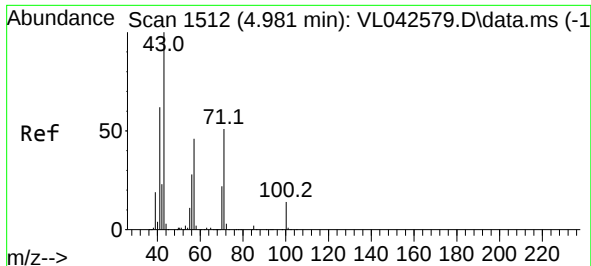
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#9
 Propene
 Concen: 6.033 ppbv
 RT: 1.493 min Scan# 434
 Delta R.T. 0.010 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

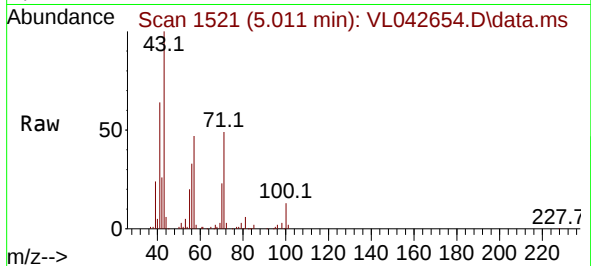
Tgt Ion: 41 Resp: 45621
 Ion Ratio Lower Upper
 41 100
 42 47.4 53.3 79.9





#10
Heptane
Concen: 3.046 ppbv
RT: 5.011 min Scan# 11
Delta R.T. 0.029 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

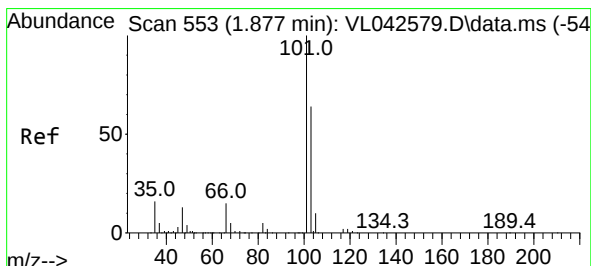
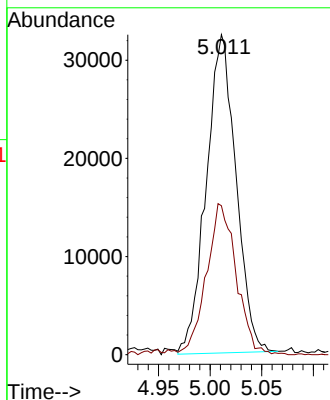
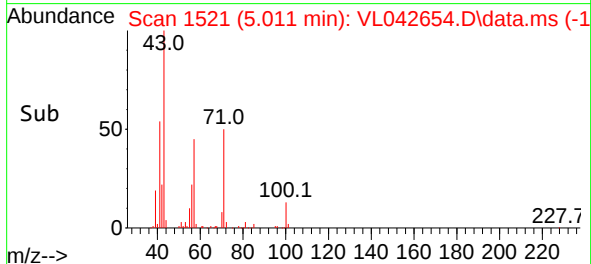
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 6493
Ion Ratio Lower Upper
43 100
57 49.2 38.9 58.3

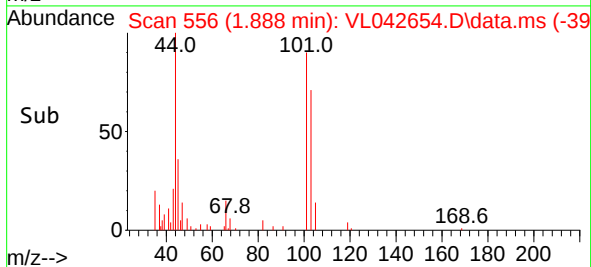
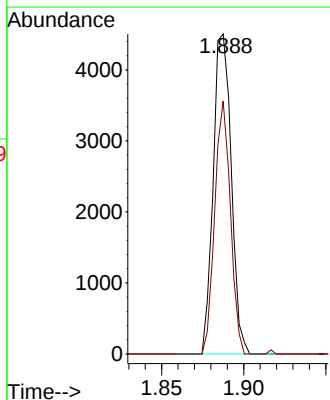
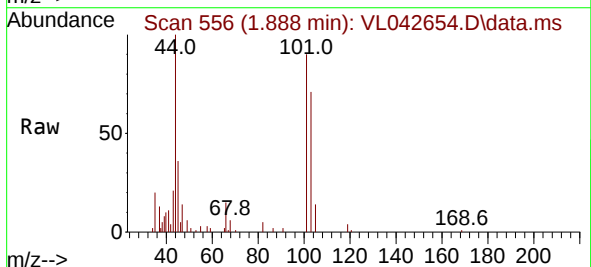
Manual Integrations
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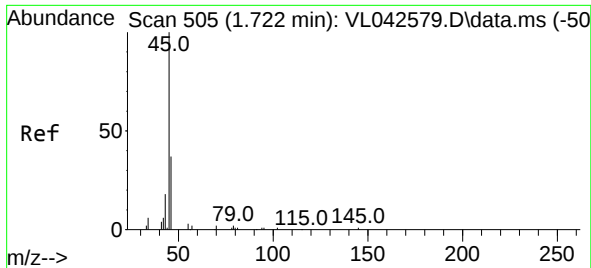
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#11
Trichlorofluoromethane
Concen: 0.271 ppbv m
RT: 1.888 min Scan# 556
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

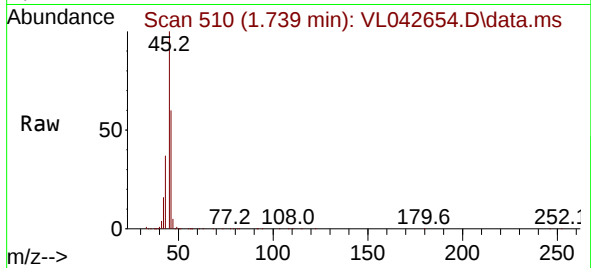
Tgt Ion:101 Resp: 3436
Ion Ratio Lower Upper
101 100
103 79.0 51.5 77.3#





#13
Ethanol
Concen: 2676.402 ppbv
RT: 1.739 min Scan# 510
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

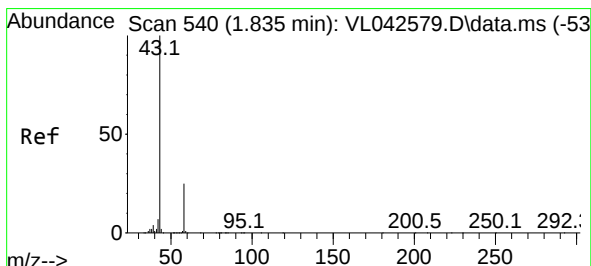
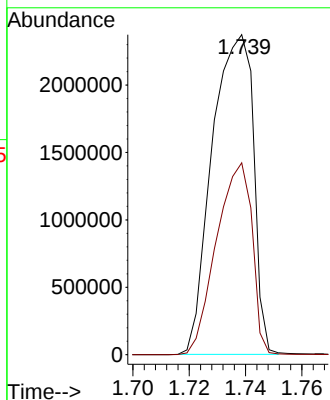
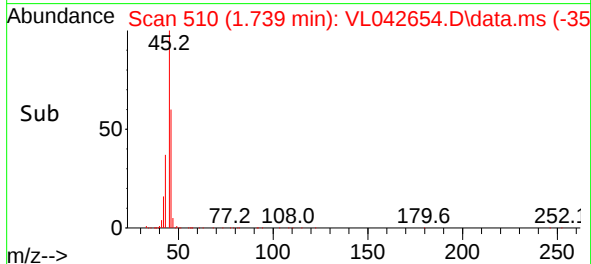
Instrument :
MSVOA_L
ClientSampleId :
IA1



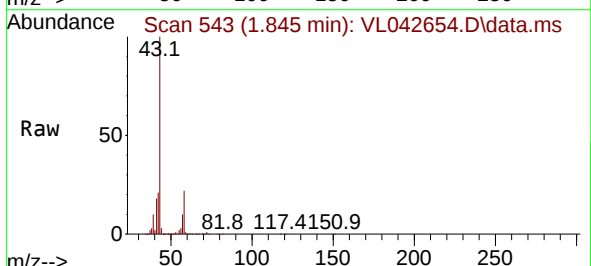
Tgt Ion: 45 Resp: 2411780
Ion Ratio Lower Upper
45 100
46 52.0 14.5 58.1

Manual Integrations
APPROVED

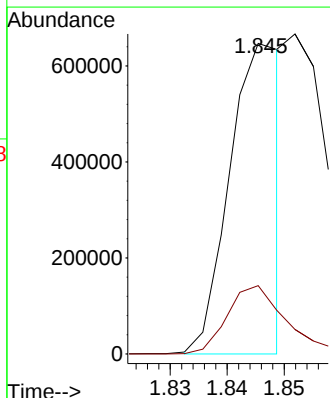
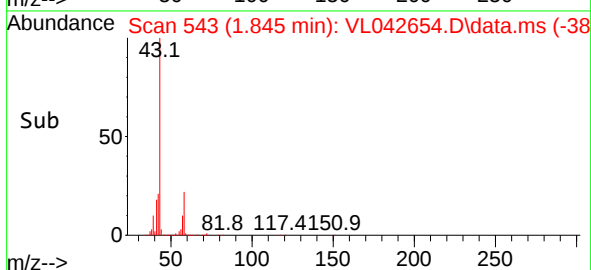
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

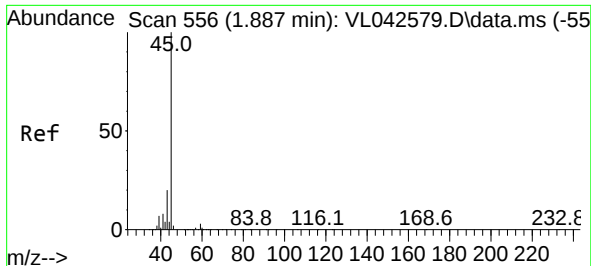


#15
Acetone
Concen: 30.730 ppbv m
RT: 1.845 min Scan# 543
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36



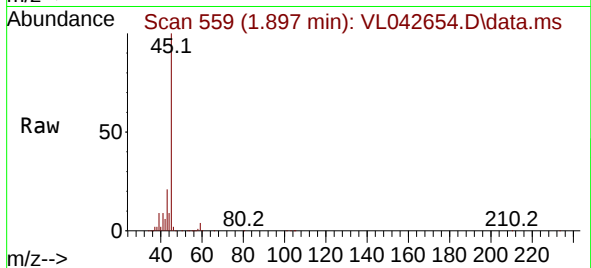
Tgt Ion: 43 Resp: 410602
Ion Ratio Lower Upper
43 100
58 24.9 21.0 31.4





#19
Isopropyl Alcohol
Concen: 9.020 ppbv
RT: 1.897 min Scan# 511
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

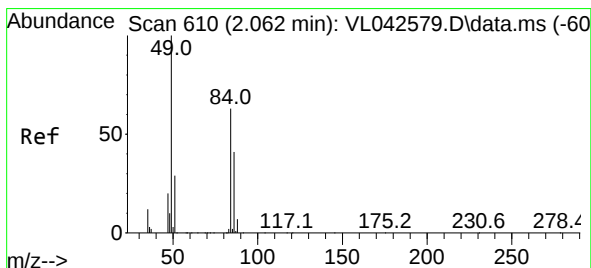
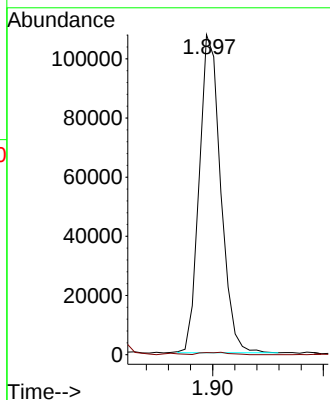
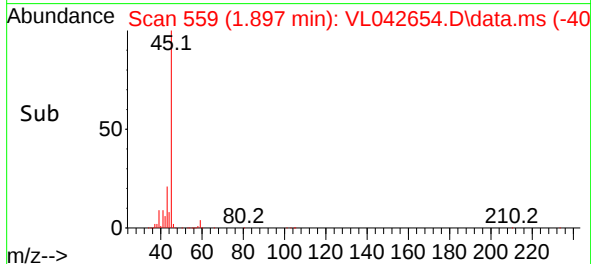
Instrument :
MSVOA_L
ClientSampleId :
IA1



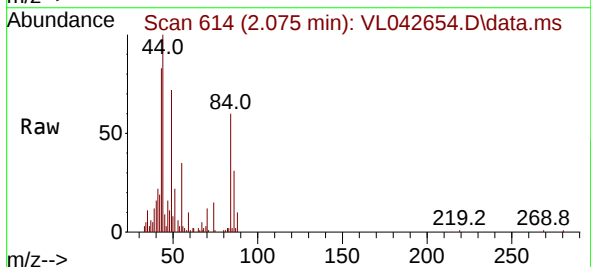
Tgt Ion: 45 Resp: 72050
Ion Ratio Lower Upper
45 100
58 142.3 29.4 44.23

Manual Integrations
APPROVED

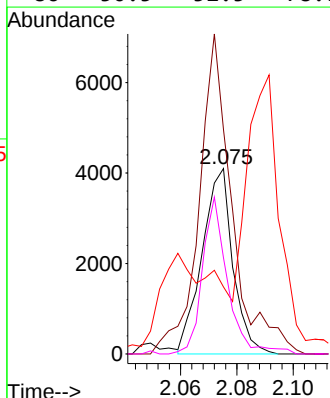
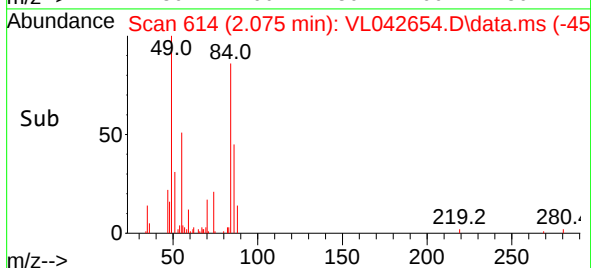
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

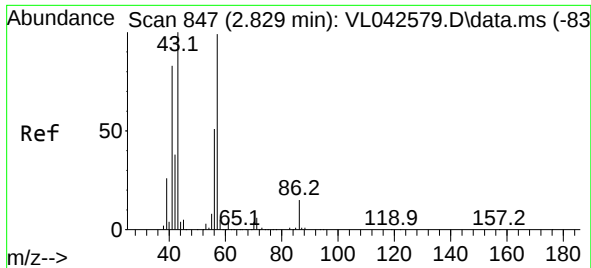


#20
Methylene Chloride
Concen: 0.707 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36



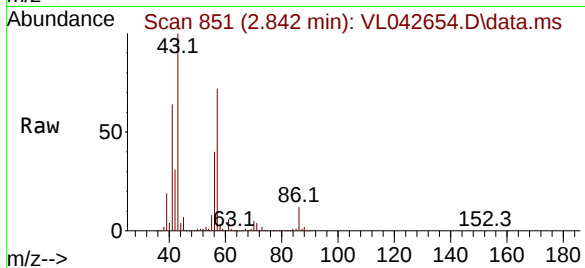
Tgt Ion: 84 Resp: 3118
Ion Ratio Lower Upper
84 100
49 106.9 128.8 193.2#
51 0.0 38.6 57.8#
86 50.5 52.5 78.7#





#26
Hexane
Concen: 8.524 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

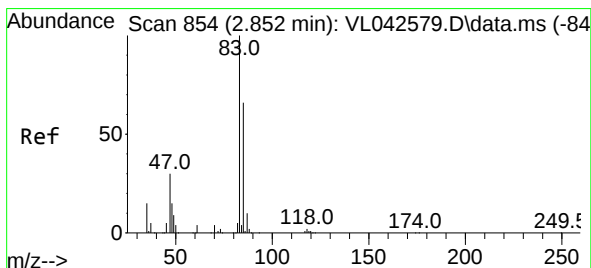
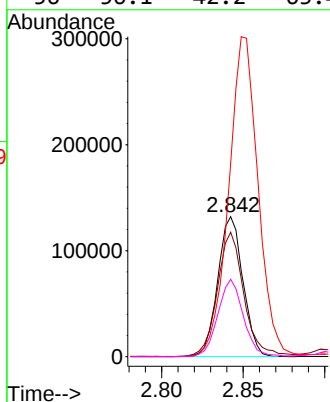
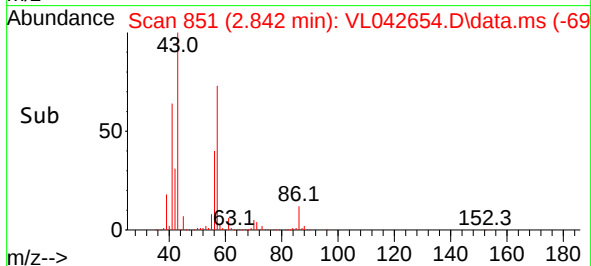
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 14163
Ion Ratio Lower Upper
57 100
41 94.8 70.6 106.0
43 268.9 181.1 271.7
56 56.1 42.2 63.4

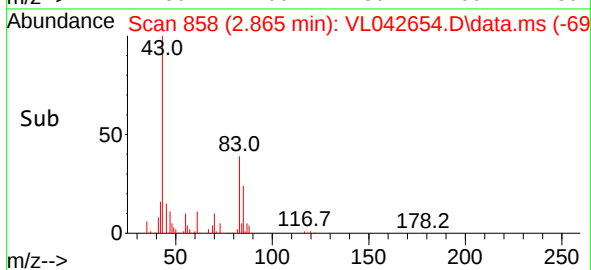
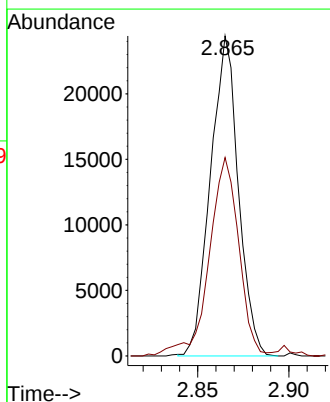
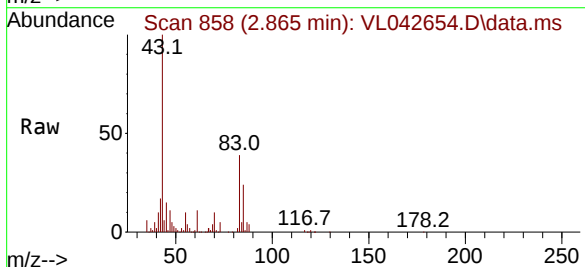
Manual Integrations
APPROVED

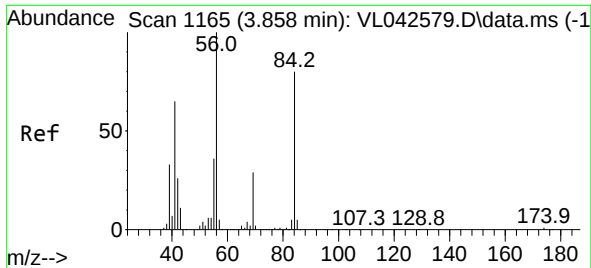
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#29
Chloroform
Concen: 1.203 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

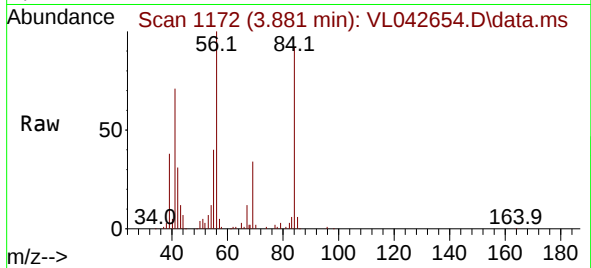
Tgt Ion: 83 Resp: 25995
Ion Ratio Lower Upper
83 100
85 60.6 52.8 79.2





#30
Cyclohexane
Concen: 2.046 ppbv
RT: 3.881 min Scan# 1172
Delta R.T. 0.023 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

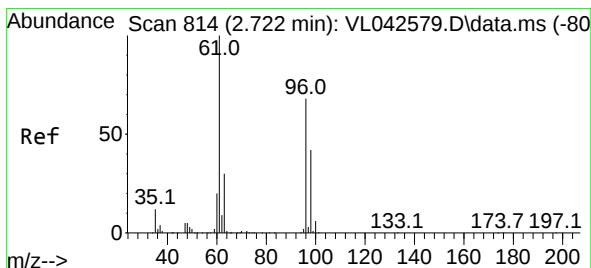
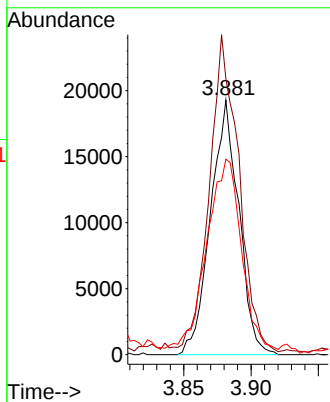
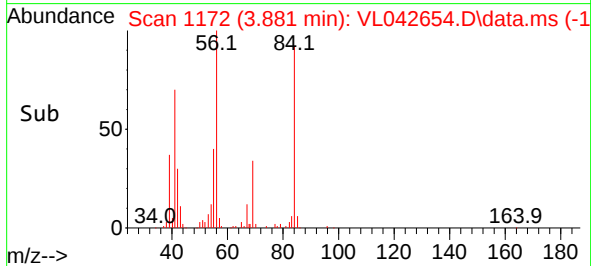
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 28170
Ion Ratio Lower Upper
84 100
56 131.3 103.7 155.5
41 93.4 65.1 97.7

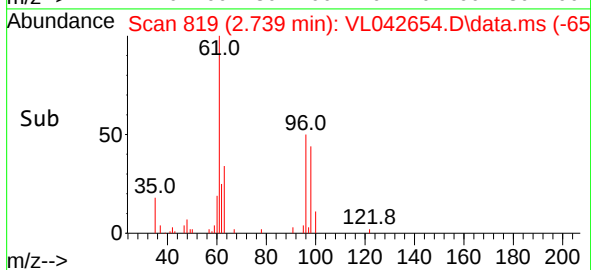
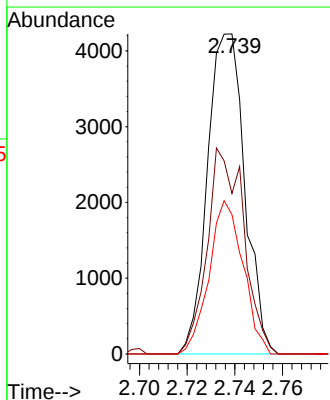
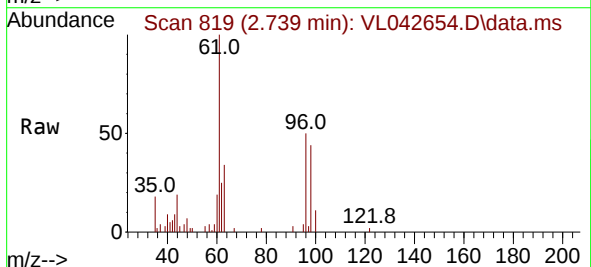
Manual Integrations
APPROVED

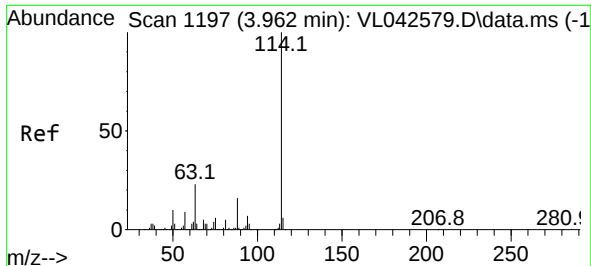
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#31
cis-1,2-Dichloroethene
Concen: 0.302 ppbv
RT: 2.739 min Scan# 819
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

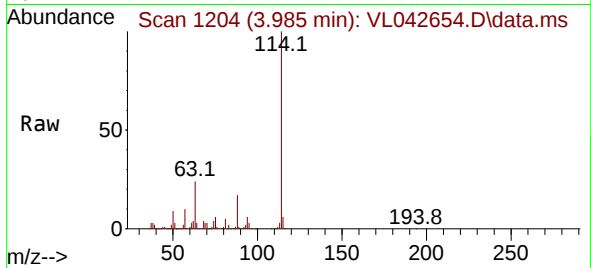
Tgt Ion: 61 Resp: 4593
Ion Ratio Lower Upper
61 100
96 50.1 54.5 81.7#
98 43.5 33.4 50.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.985 min Scan# 1197
Delta R.T. 0.023 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

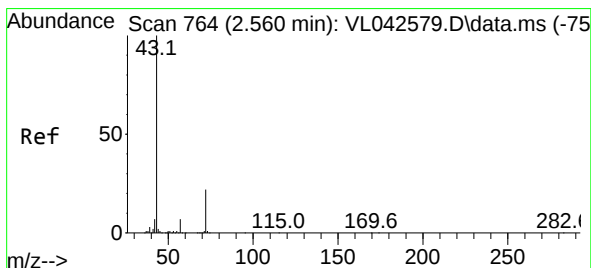
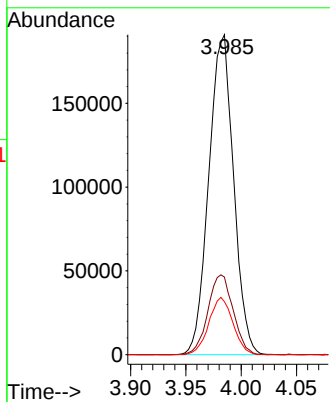
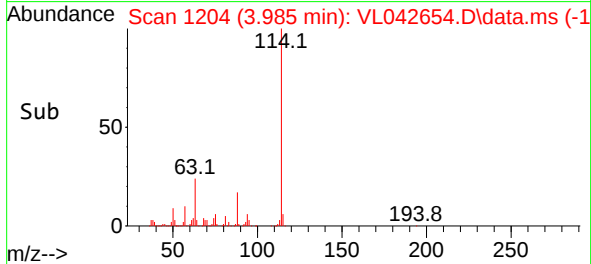
Instrument :
MSVOA_L
ClientSampleId :
IA1



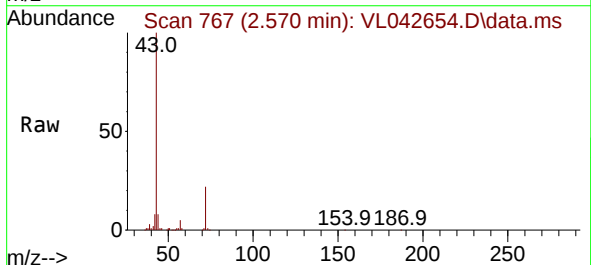
Tgt Ion:114 Resp: 297809
Ion Ratio Lower Upper
114 100
63 25.4 19.0 28.6
88 17.4 13.6 20.4

Manual Integrations
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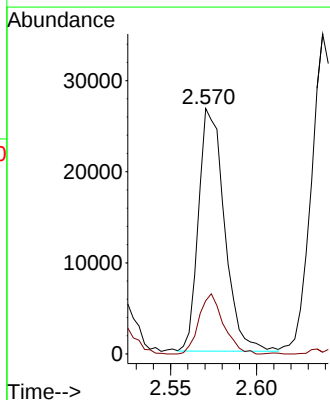
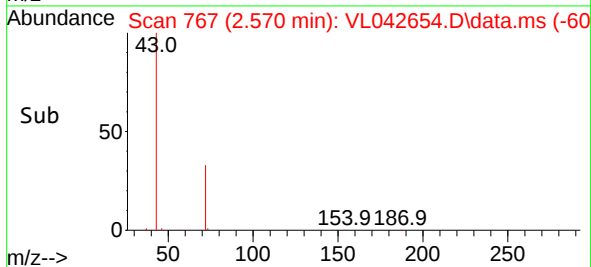
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

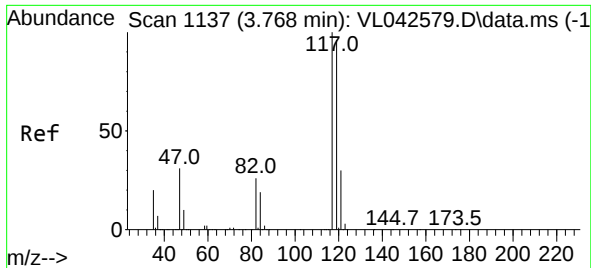


#34
2-Butanone
Concen: 1.317 ppbv
RT: 2.570 min Scan# 767
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36



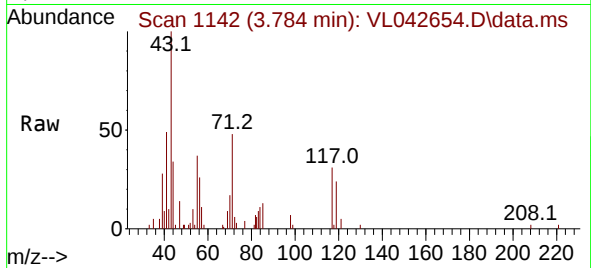
Tgt Ion: 43 Resp: 27969
Ion Ratio Lower Upper
43 100
72 23.6 17.7 26.5





#35
Carbon Tetrachloride
Concen: 0.087 ppbv m
RT: 3.784 min Scan# 1137
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

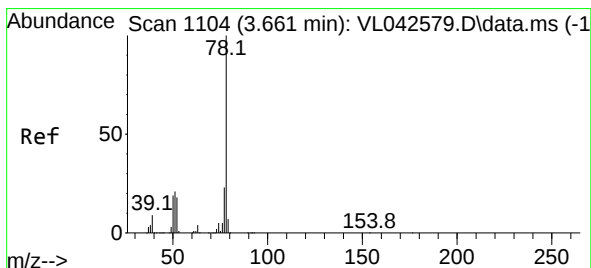
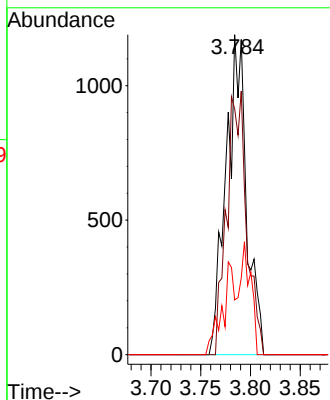
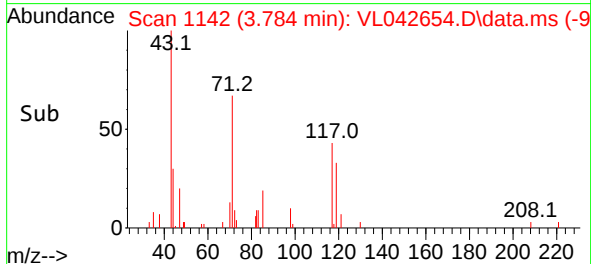
Instrument :
MSVOA_L
ClientSampleId :
IA1



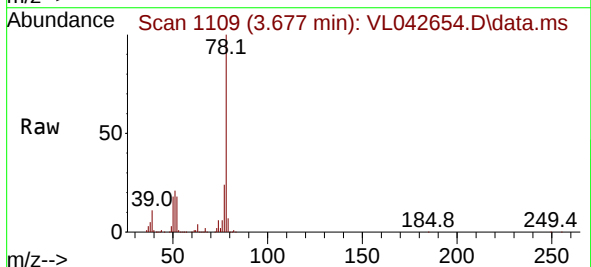
Tgt Ion: 117 Resp: 1700
Ion Ratio Lower Upper
117 100
119 76.7 76.8 115.2
121 17.1 24.3 36.5

Manual Integrations
APPROVED

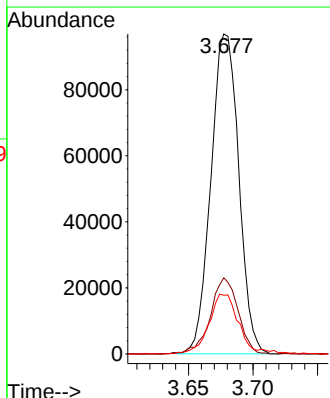
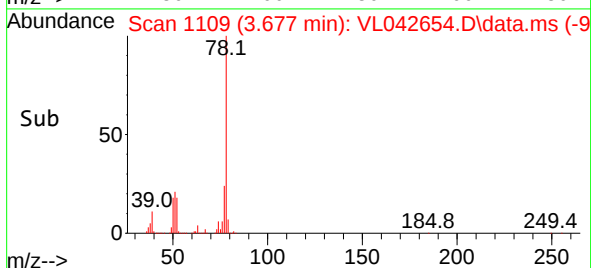
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

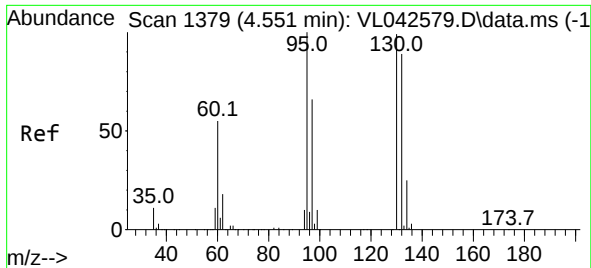


#36
Benzene
Concen: 4.951 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36



Tgt Ion: 78 Resp: 145194
Ion Ratio Lower Upper
78 100
77 23.8 18.2 27.2
50 18.0 15.2 22.8





#38

Trichloroethene

Concen: 0.225 ppbv m

RT: 4.571 min Scan# 1379

Delta R.T. 0.020 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

IA1

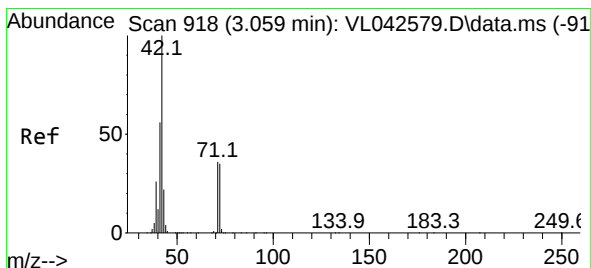
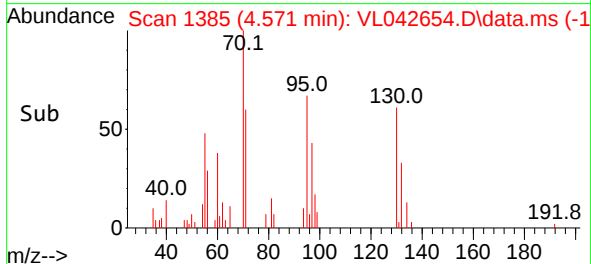
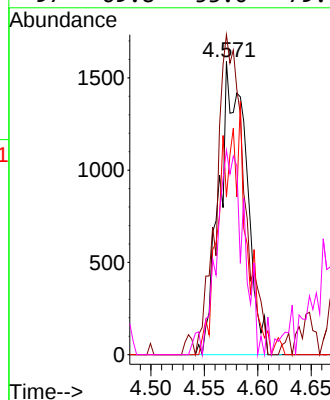
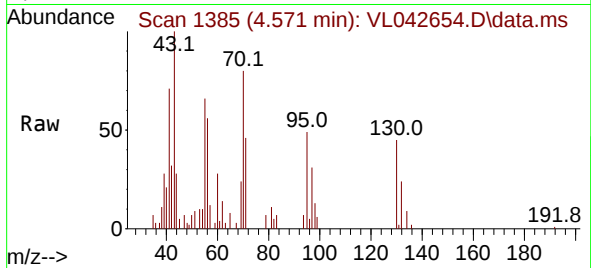
Tgt Ion:130 Resp: 2800

Ion	Ratio	Lower	Upper
130	100		
95	109.2	80.6	121.0
132	53.8	71.8	107.6
97	69.8	53.0	79.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#41

Tetrahydrofuran

Concen: 0.589 ppbv m

RT: 3.075 min Scan# 923

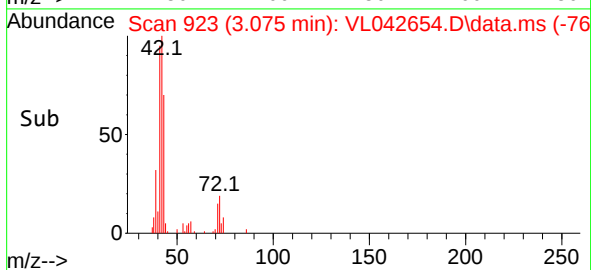
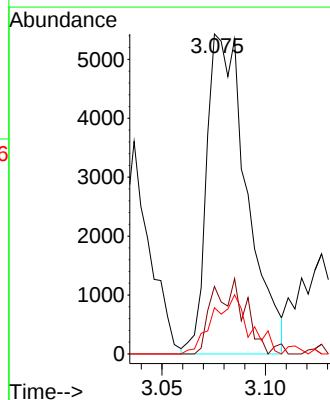
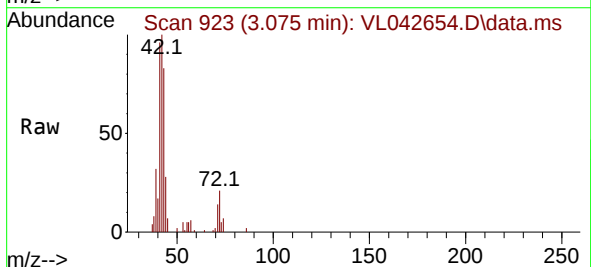
Delta R.T. 0.016 min

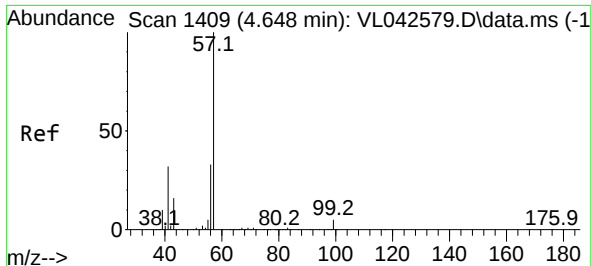
Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Tgt Ion: 42 Resp: 7319

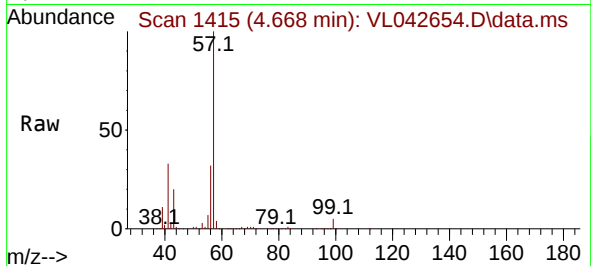
Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.9	43.3#
71	0.0	28.5	42.7#





#44
 2,2,4-Trimethylpentane
 Concen: 4.037 ppbv
 RT: 4.668 min Scan# 1409
 Delta R.T. 0.020 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

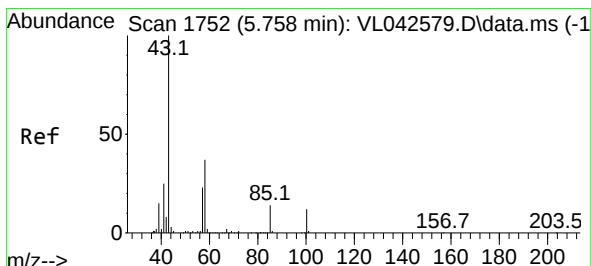
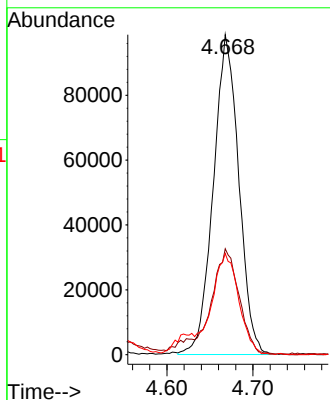
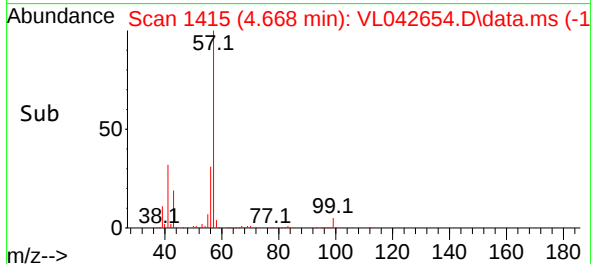
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 57 Resp: 202489
 Ion Ratio Lower Upper
 57 100
 41 37.8 26.1 39.1
 56 38.6 25.9 38.9

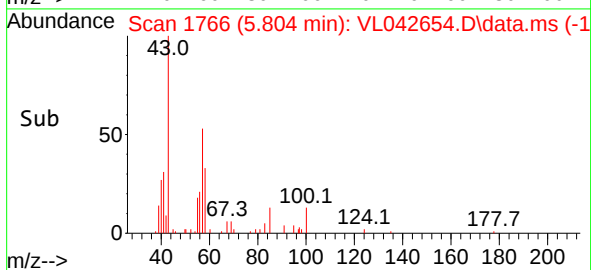
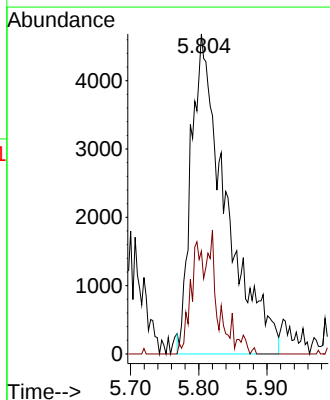
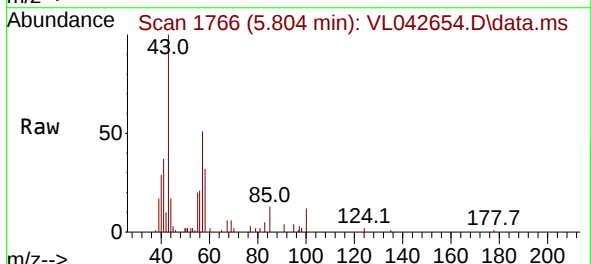
Manual Integrations
 APPROVED

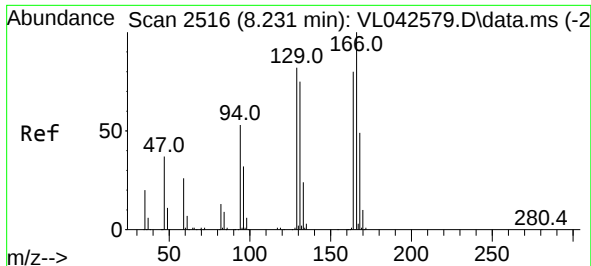
Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025



#50
 4-Methyl-2-Pentanone
 Concen: 0.560 ppbv m
 RT: 5.804 min Scan# 1766
 Delta R.T. 0.046 min
 Lab File: VL042654.D
 Acq: 19 Jun 2025 14:36

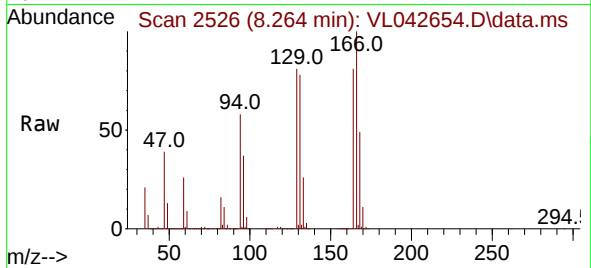
Tgt Ion: 43 Resp: 16487
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.3 42.5#





#52
Tetrachloroethene
Concen: 160.426 ppbv
RT: 8.264 min Scan# 2125
Delta R.T. 0.033 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

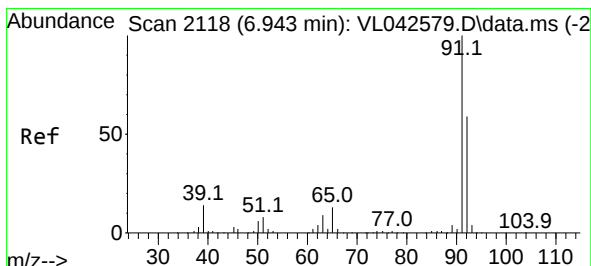
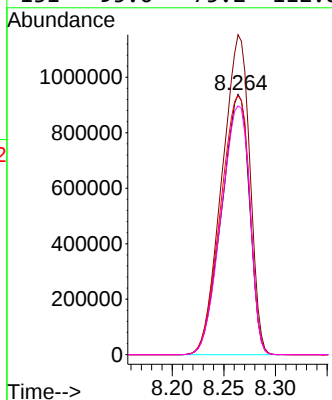
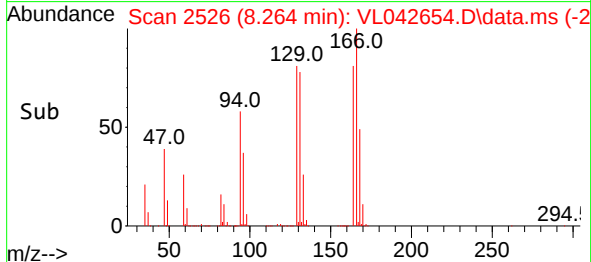
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 175804
Ion Ratio Lower Upper
164 100
166 122.9 100.0 150.0
129 99.5 82.2 123.4
131 95.6 75.2 112.8

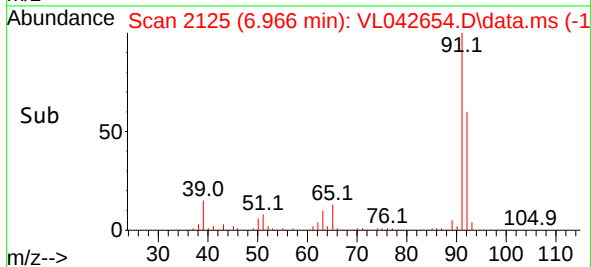
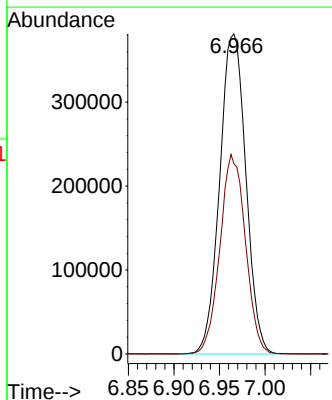
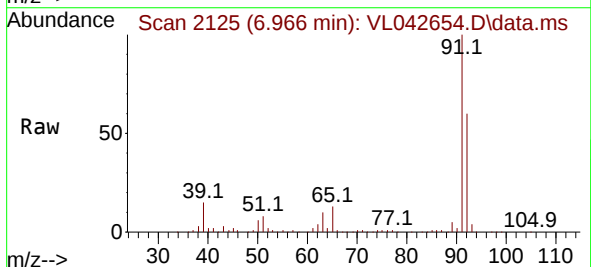
Manual Integrations
APPROVED

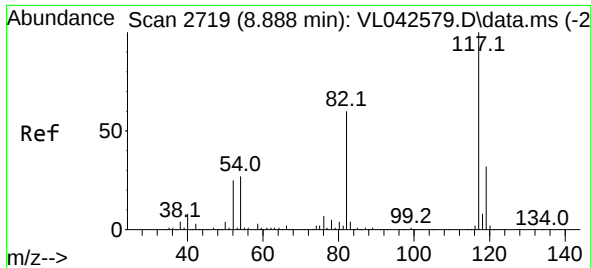
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#53
Toluene
Concen: 22.482 ppbv
RT: 6.966 min Scan# 2125
Delta R.T. 0.023 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

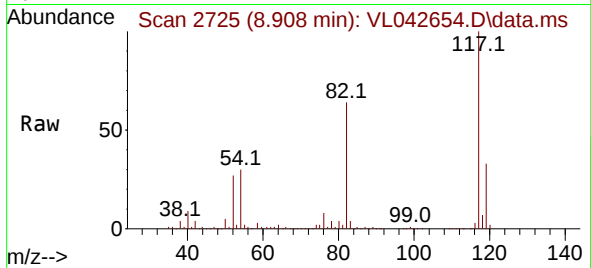
Tgt Ion: 91 Resp: 762011
Ion Ratio Lower Upper
91 100
92 60.8 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.908 min Scan# 21
Delta R.T. 0.020 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

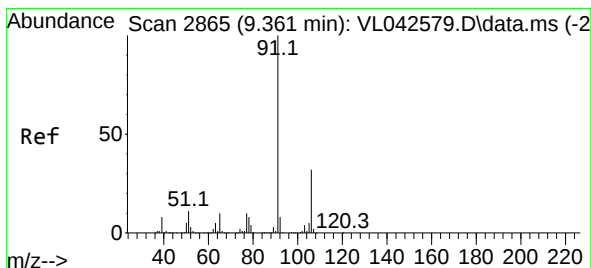
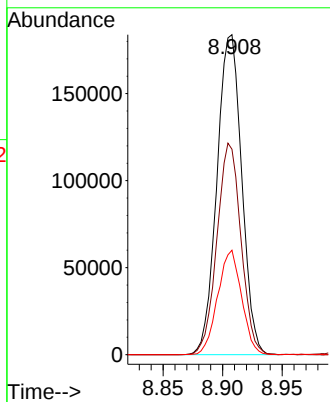
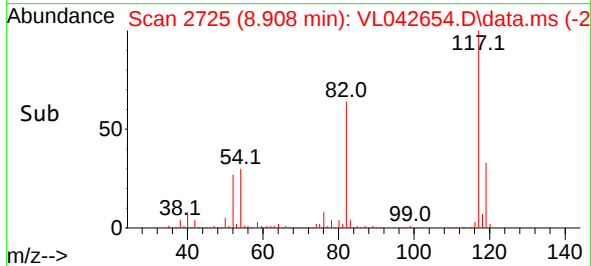
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:117 Resp: 265680
Ion Ratio Lower Upper
117 100
82 64.3 51.2 76.8
119 31.5 26.3 39.5

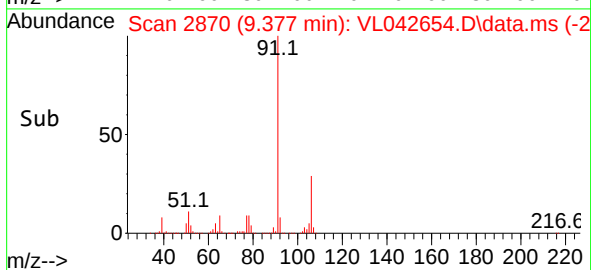
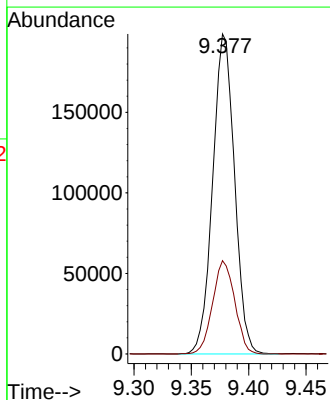
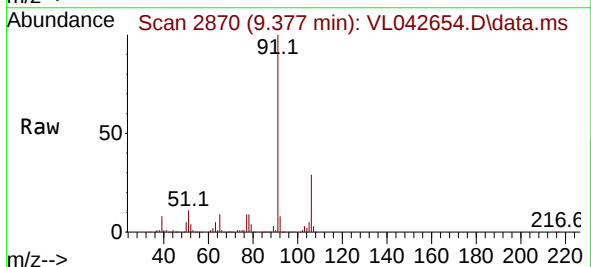
Manual Integrations
APPROVED

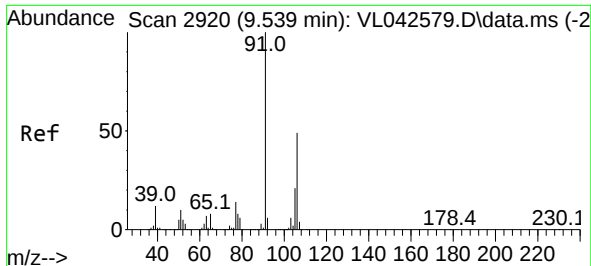
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#58
Ethyl Benzene
Concen: 5.831 ppbv
RT: 9.377 min Scan# 2870
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 91 Resp: 262805
Ion Ratio Lower Upper
91 100
106 29.2 25.9 38.9





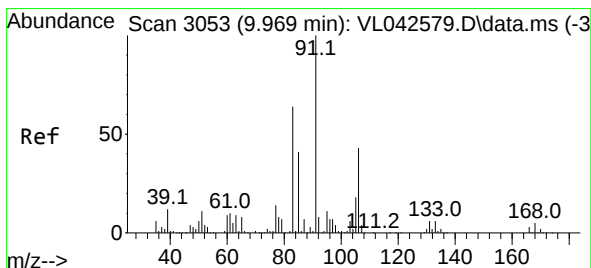
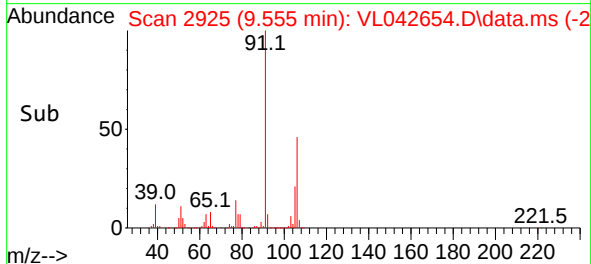
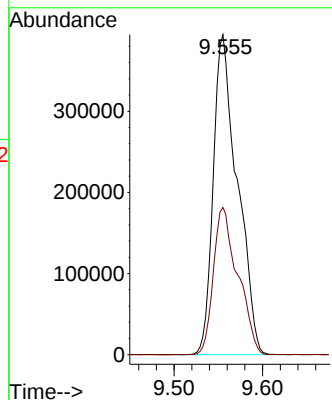
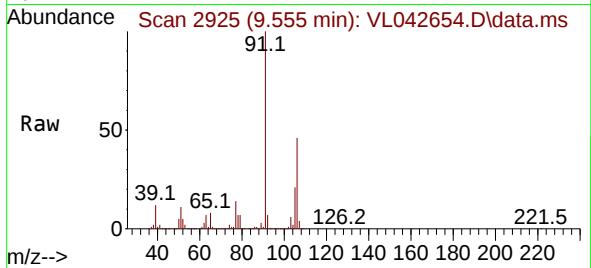
#59
m/p-Xylene
Concen: 21.008 ppbv
RT: 9.555 min Scan# 2920
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 745060
Ion Ratio Lower Upper
91 100
106 46.7 38.8 58.2

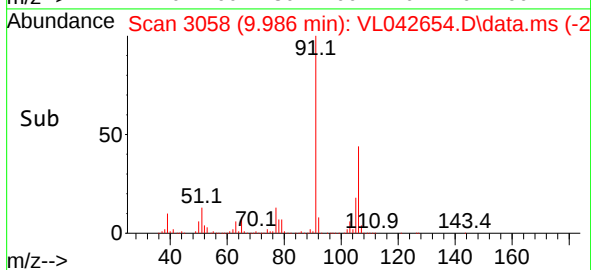
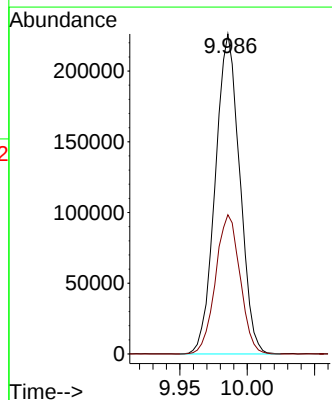
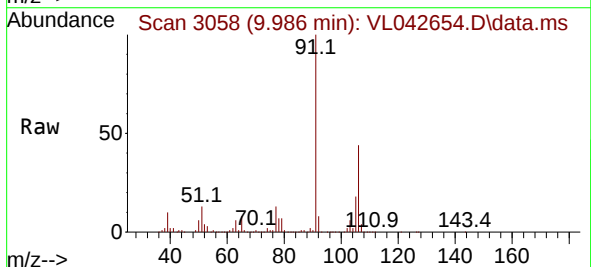
Manual Integrations
APPROVED

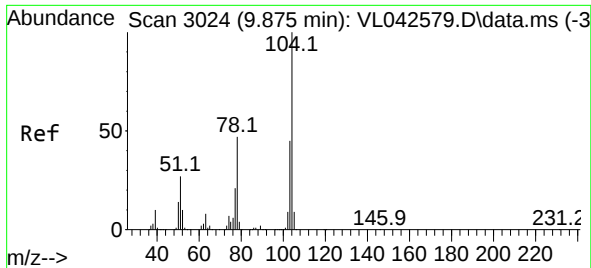
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#60
o-Xylene
Concen: 8.066 ppbv
RT: 9.986 min Scan# 3058
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

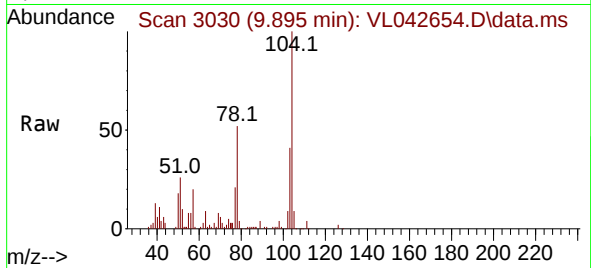
Tgt Ion: 91 Resp: 285317
Ion Ratio Lower Upper
91 100
106 43.6 22.9 68.5





#61
Styrene
Concen: 1.578 ppbv
RT: 9.895 min Scan# 3024
Delta R.T. 0.020 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

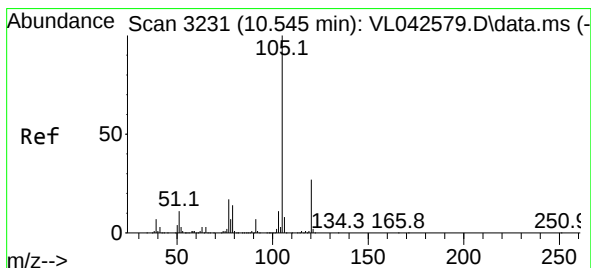
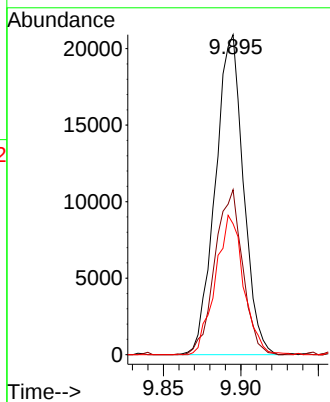
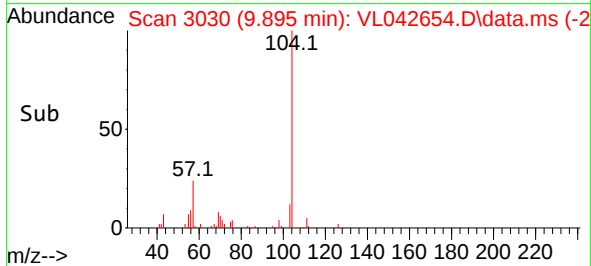
Instrument :
MSVOA_L
ClientSampleId :
IA1



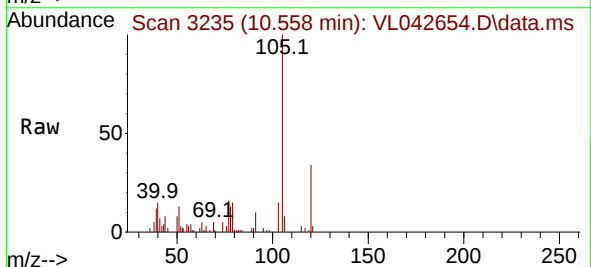
Tgt Ion:104 Resp: 26380
Ion Ratio Lower Upper
104 100
78 50.8 38.2 57.4
103 44.0 36.7 55.1

Manual Integrations
APPROVED

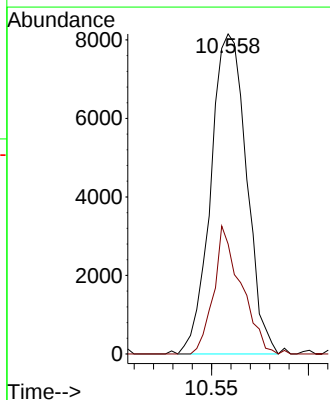
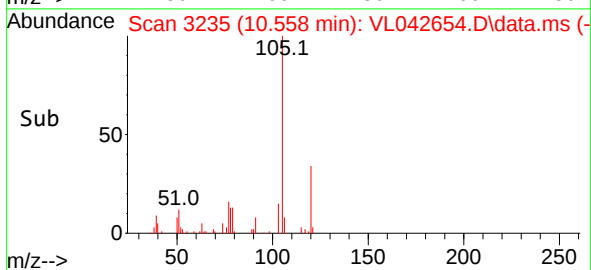
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

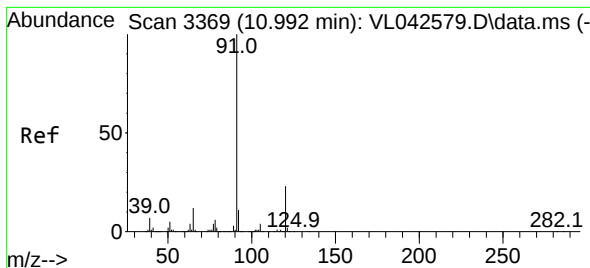


#62
Isopropylbenzene
Concen: 0.200 ppbv
RT: 10.558 min Scan# 3235
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36



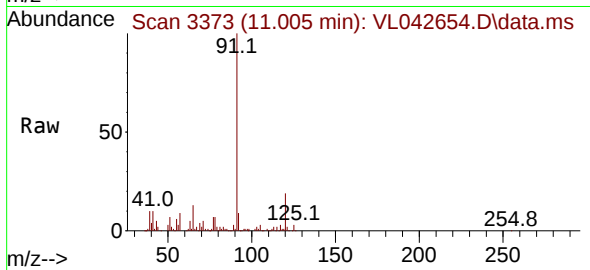
Tgt Ion:105 Resp: 10455
Ion Ratio Lower Upper
105 100
120 30.8 20.9 31.3





#64
n-propylbenzene
Concen: 0.607 ppbv
RT: 11.005 min Scan# 3185
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

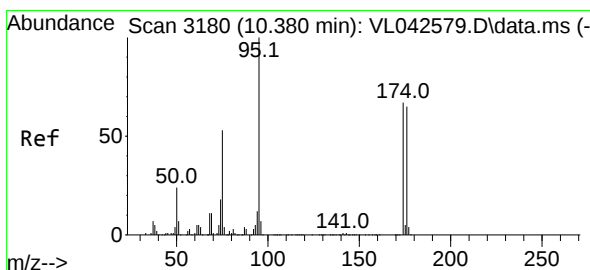
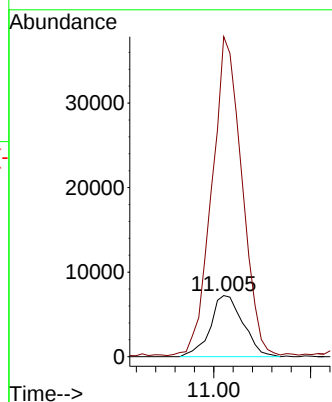
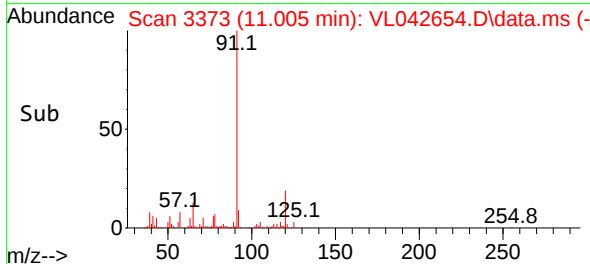
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:120 Resp: 8498
Ion Ratio Lower Upper
120 100
91 477.2 363.0 544.6

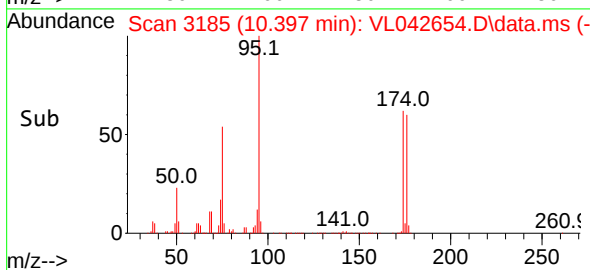
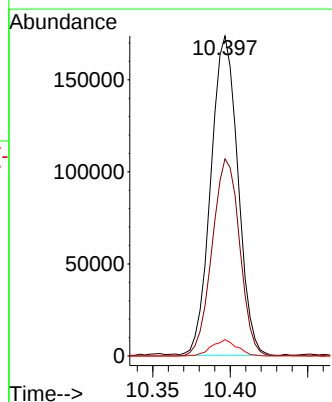
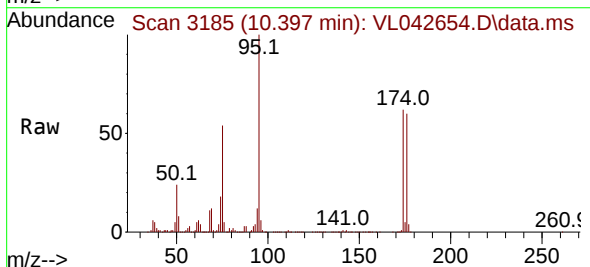
Manual Integrations
APPROVED

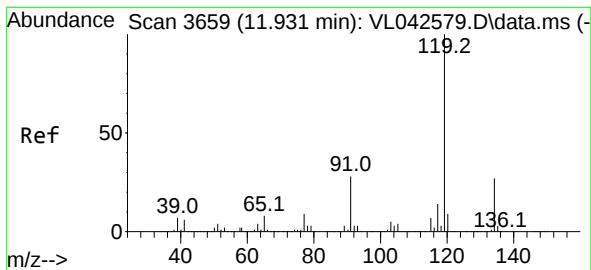
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.555 ppbv
RT: 10.397 min Scan# 3185
Delta R.T. 0.016 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Tgt Ion: 95 Resp: 210213
Ion Ratio Lower Upper
95 100
174 63.0 53.1 79.7
175 4.8 4.2 6.2





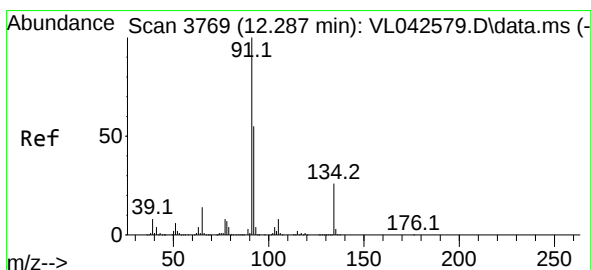
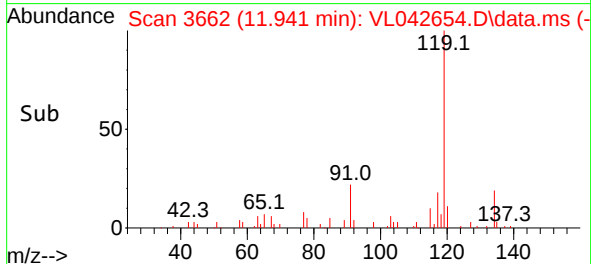
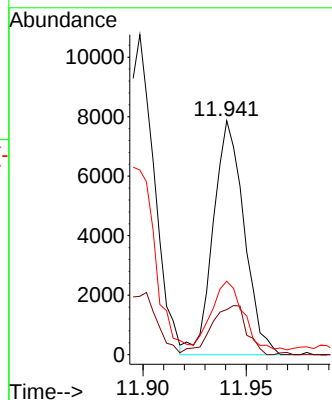
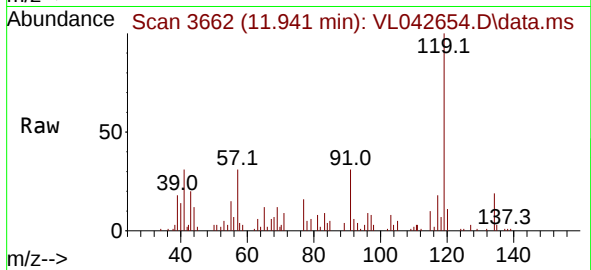
#69
p-Isopropyltoluene
Concen: 0.146 ppbv
RT: 11.941 min Scan# 3065
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:119 Resp: 816
Ion Ratio Lower Upper
119 100
134 23.9 21.1 31.7
91 30.1 21.9 32.9

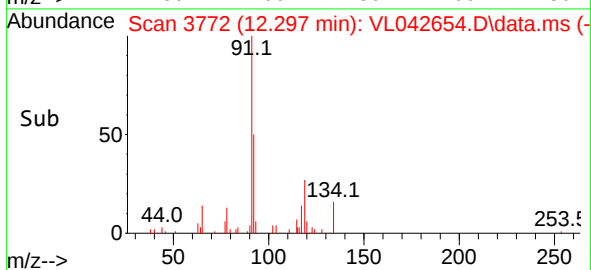
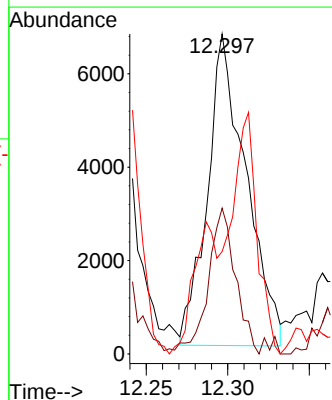
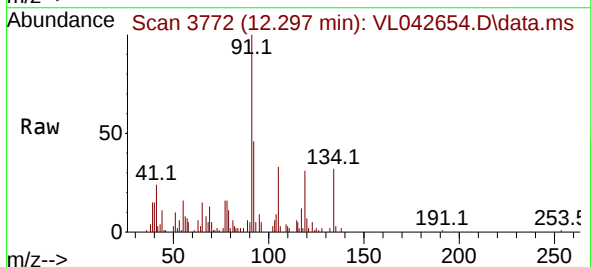
Manual Integrations
APPROVED

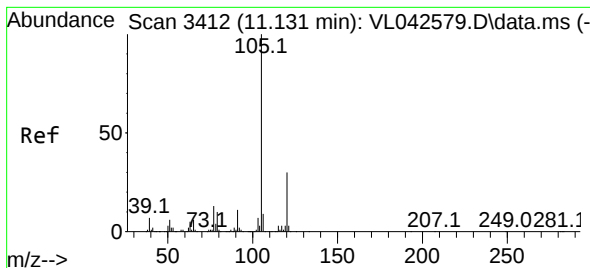
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#70
n-Butylbenzene
Concen: 0.199 ppbv
RT: 12.297 min Scan# 3772
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

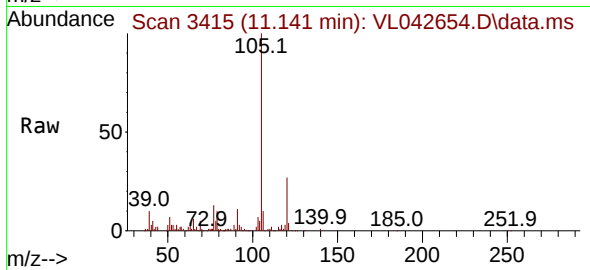
Tgt Ion: 91 Resp: 10981
Ion Ratio Lower Upper
91 100
92 34.8 44.4 66.6#
134 80.3 20.1 30.1#





#72
4-Ethyltoluene
Concen: 1.026 ppbv
RT: 11.141 min Scan# 3412
Delta R.T. 0.010 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

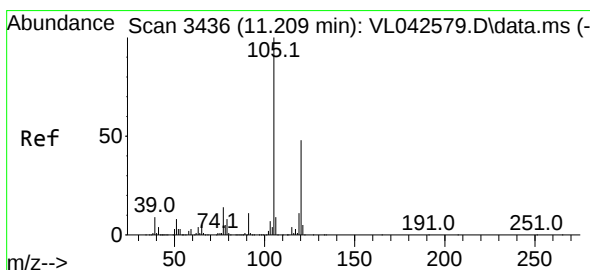
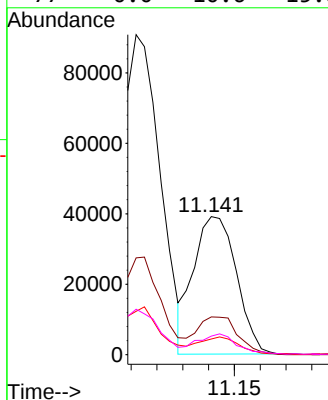
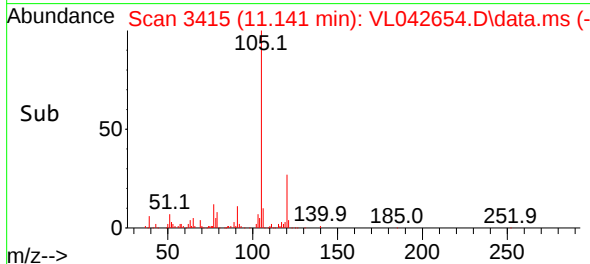
Instrument :
MSVOA_L
ClientSampleId :
IA1



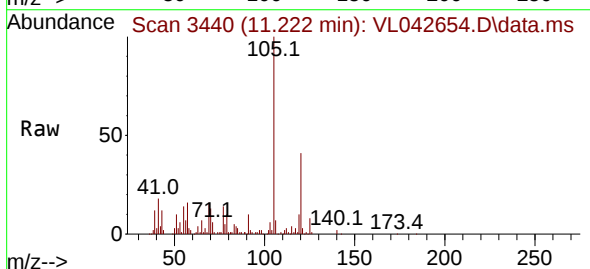
Tgt Ion:105 Resp: 45232
Ion Ratio Lower Upper
105 100
120 0.0 24.6 36.8
91 0.0 9.6 14.4
77 0.0 10.6 15.8

Manual Integrations
APPROVED

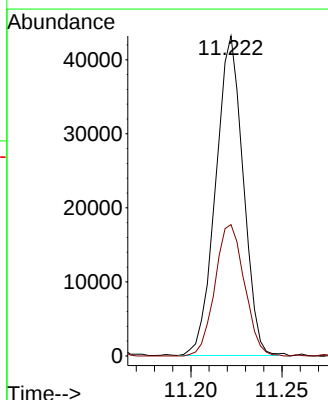
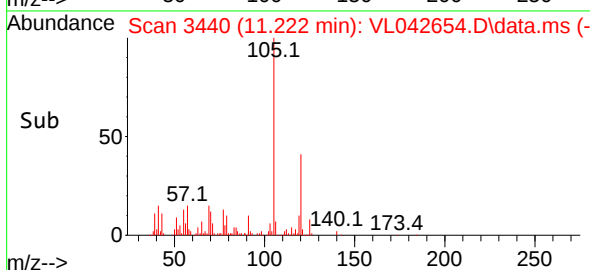
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

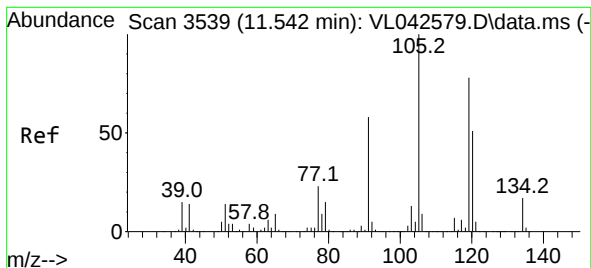


#73
1,3,5-Trimethylbenzene
Concen: 1.237 ppbv
RT: 11.222 min Scan# 3440
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36



Tgt Ion:105 Resp: 45144
Ion Ratio Lower Upper
105 100
120 41.1 38.8 58.2





#74

1,2,4-Trimethylbenzene

Concen: 3.908 ppbv

RT: 11.552 min Scan# 3542

Delta R.T. 0.010 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

Instrument :

MSVOA_L

ClientSampleId :

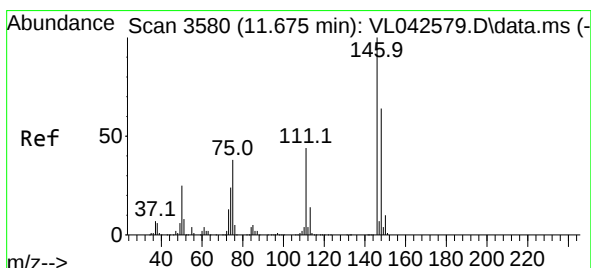
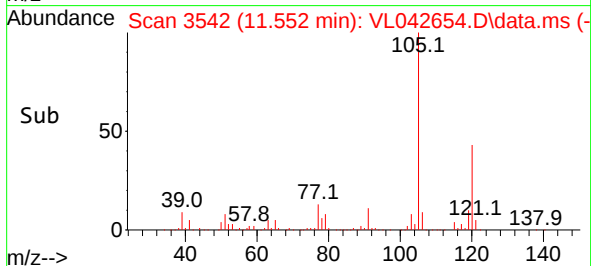
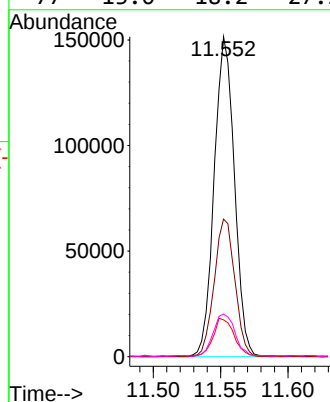
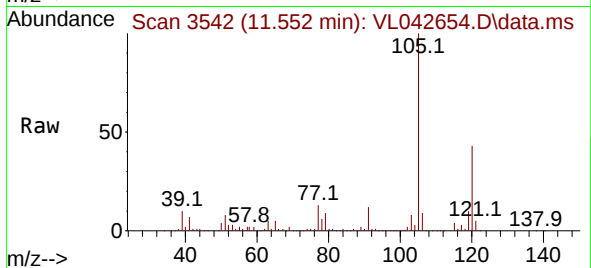
IA1

Tgt Ion:105	Resp: 15830
Ion Ratio	Lower Upper
105 100	
120 43.0	40.8 61.2
91 11.4	46.8 70.2
77 13.0	18.2 27.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#76

1,4-Dichlorobenzene

Concen: 4.883 ppbv

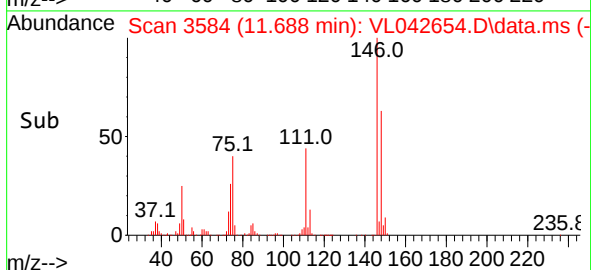
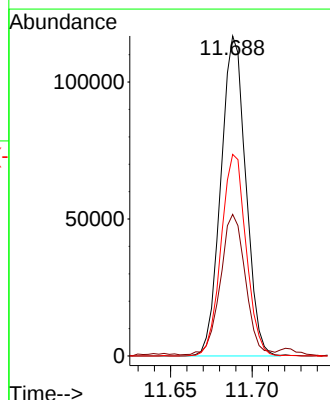
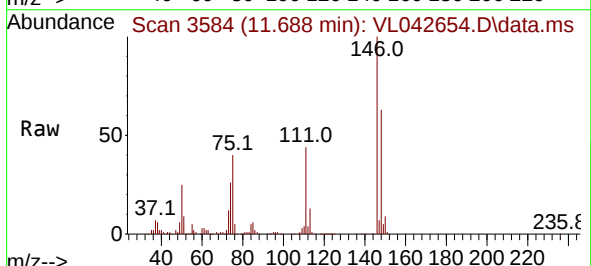
RT: 11.688 min Scan# 3584

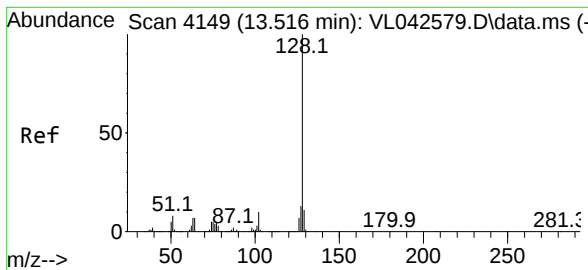
Delta R.T. 0.013 min

Lab File: VL042654.D

Acq: 19 Jun 2025 14:36

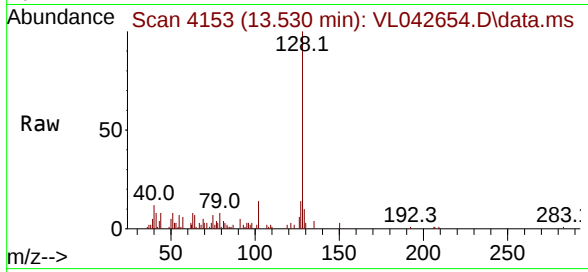
Tgt Ion:146	Resp: 123874
Ion Ratio	Lower Upper
146 100	
111 47.4	21.6 64.8
148 63.4	32.1 96.5





#79
Naphthalene
Concen: 0.242 ppbv
RT: 13.530 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042654.D
Acq: 19 Jun 2025 14:36

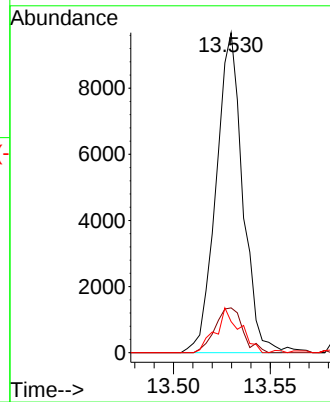
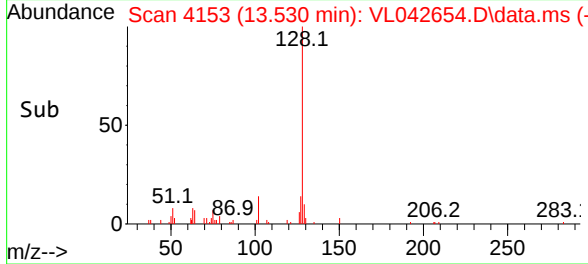
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:128 Resp: 9254
Ion Ratio Lower Upper
128 100
127 14.0 10.2 15.4
129 9.7 8.8 13.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	06/18/25
Project:	1426 Ogden Ave, Bronx NY	Date Received:	06/19/25
Client Sample ID:	IA1DL	SDG No.:	Q2368
Lab Sample ID:	Q2368-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042660.D	40		06/19/25 18:00	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1.00	2.56	UD	2.56	3.07	ug/m3
142-82-5	Heptane	6.80	27.9	UD	27.9	82.0	ug/m3
75-35-4	1,1-Dichloroethene	6.00	23.8	UD	23.8	79.3	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
156-59-2	cis-1,2-Dichloroethene	4.00	15.9	UD	15.9	79.3	ug/m3
71-55-6	1,1,1-Trichloroethane	0.64	3.49	UD	3.49	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	5.60	26.2	UD	26.2	93.4	ug/m3
71-43-2	Benzene	4.20	13.4	JD	10.2	63.9	ug/m3
79-01-6	Trichloroethene	0.96	5.16	UD	5.16	6.45	ug/m3
108-88-3	Toluene	16.1	60.7	JD	24.1	75.4	ug/m3
127-18-4	Tetrachloroethene	220	1490	D	4.07	8.14	ug/m3
100-41-4	Ethyl Benzene	7.60	33.0	UD	33.0	86.9	ug/m3
179601-23-1	m/p-Xylene	16.4	71.2	UD	71.2	174	ug/m3
95-47-6	o-Xylene	8.40	36.5	UD	36.5	86.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	7.20	35.4	UD	35.4	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.20	35.4	UD	35.4	98.3	ug/m3
91-20-3	Naphthalene	0.52	2.73	UD	2.73	21.0	ug/m3
110-54-3	Hexane	6.40	22.6	JD	22.6	70.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	108000		2.8			
540-36-3	1,4-Difluorobenzene	275000		3.981			
3114-55-4	Chlorobenzene-d5	237000		8.904			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042660.D
 Acq On : 19 Jun 2025 18:00
 Operator : SY/MD
 Sample : Q2368-02DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/23/2025
 Supervised By : Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:41:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	108048	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.981	114	274999	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.904	117	237440	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	177692	9.983	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
9) Propene	1.492	41	1258	0.171	ppbv	94
13) Ethanol	1.729	45	121725	138.678	ppbv	98
15) Acetone	1.848	43	11510m	0.884	ppbv	
19) Isopropyl Alcohol	1.894	45	2465m	0.317	ppbv	
26) Hexane	2.845	57	2590	0.160	ppbv #	46
36) Benzene	3.671	78	2840m	0.105	ppbv	
52) Tetrachloroethene	8.247	164	56199	5.554	ppbv	94
53) Toluene	6.966	91	12587	0.402	ppbv	97
59) m/p-Xylene	9.548	91	10224m	0.323	ppbv	
60) o-Xylene	9.982	91	3631m	0.115	ppbv	

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

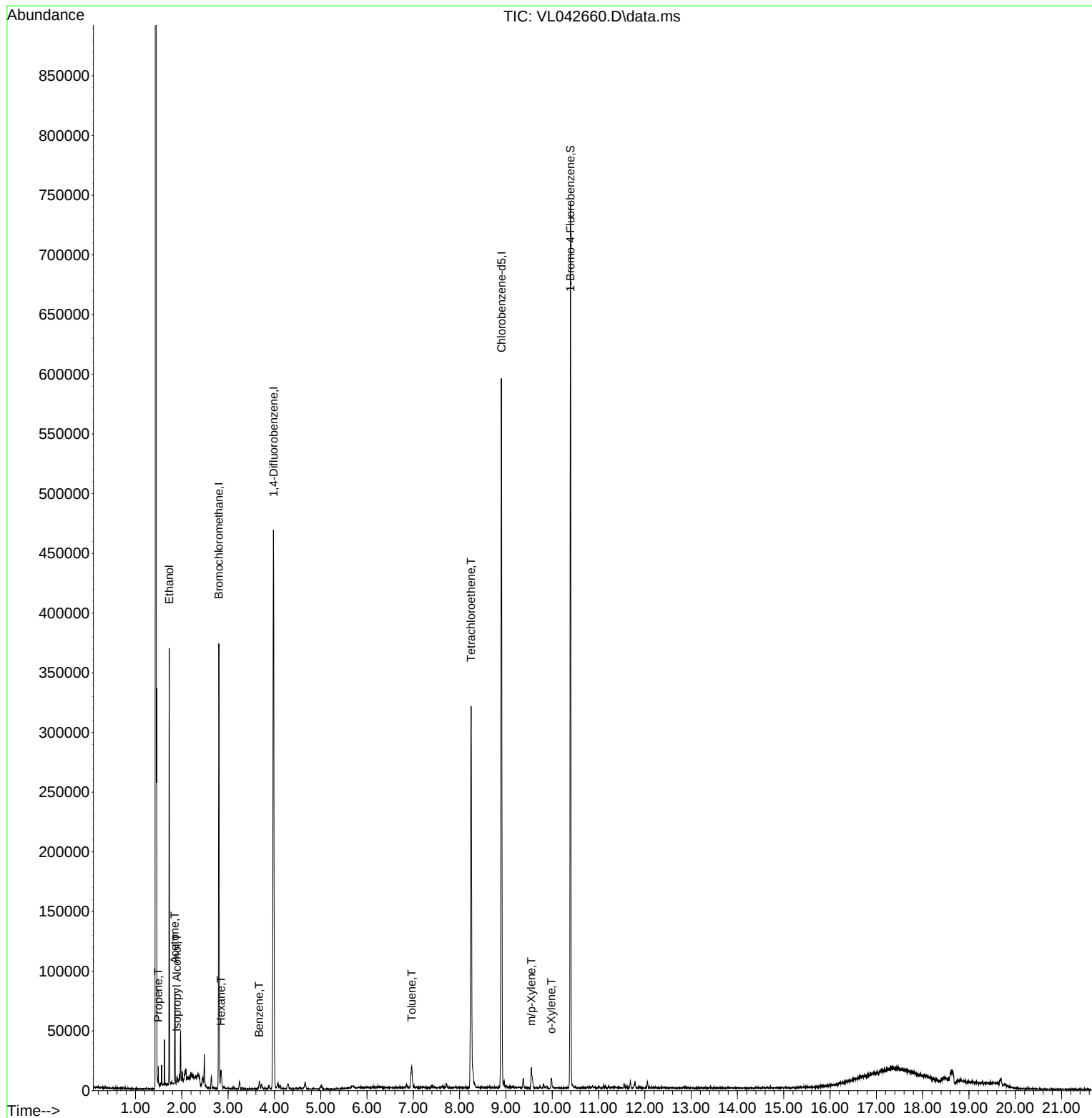
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042660.D
Acq On : 19 Jun 2025 18:00
Operator : SY/MD
Sample : Q2368-02DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

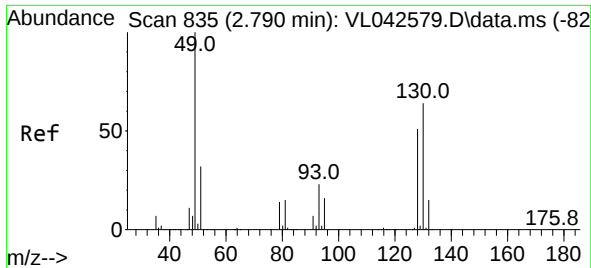
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Quant Time: Jun 20 01:41:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

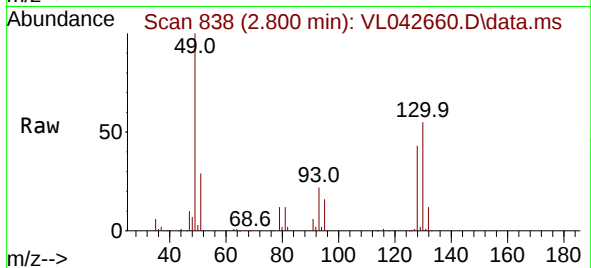
Reviewed By : Semsettin Yesilyurt 06/23/2025
Supervised By : Mahesh Dadoda 06/23/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 835
Delta R.T. 0.010 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00

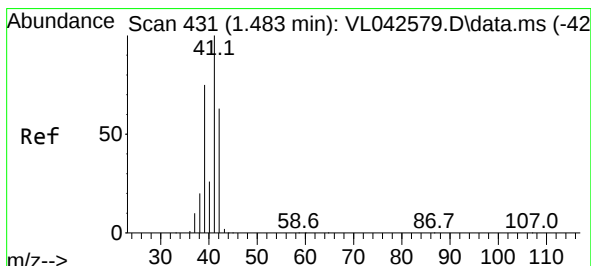
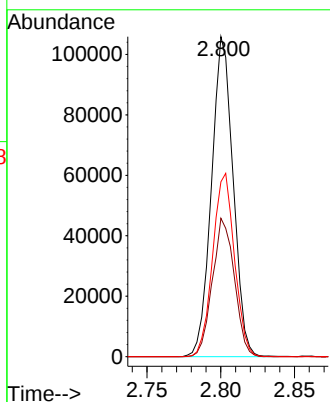
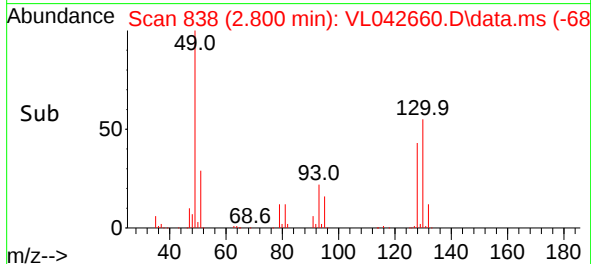
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



Tgt Ion: 49 Resp: 108048
Ion Ratio Lower Upper
49 100
128 43.8 24.2 72.6
130 57.7 30.4 91.2

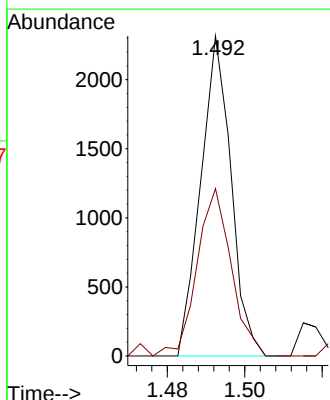
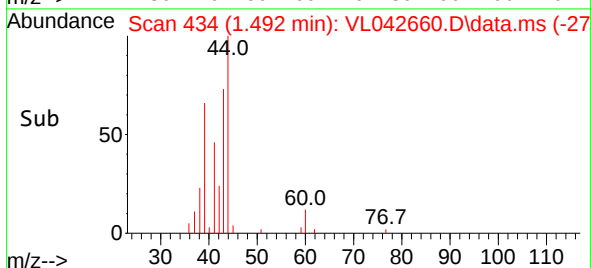
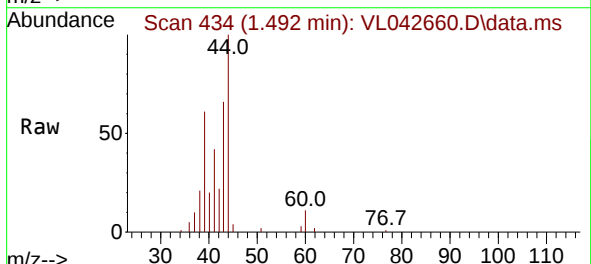
Manual Integrations
APPROVED

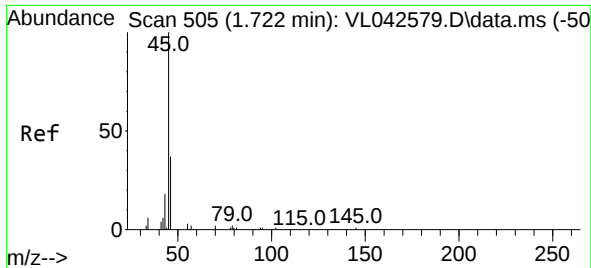
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#9
Propene
Concen: 0.171 ppbv
RT: 1.492 min Scan# 434
Delta R.T. 0.010 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00

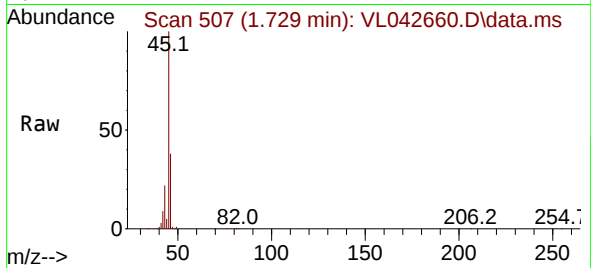
Tgt Ion: 41 Resp: 1258
Ion Ratio Lower Upper
41 100
42 61.4 53.3 79.9





#13
Ethanol
Concen: 138.678 ppbv
RT: 1.729 min Scan# 505
Delta R.T. 0.007 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00

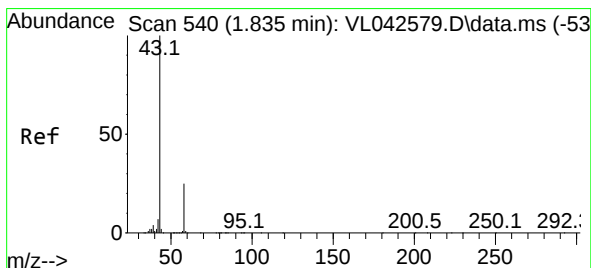
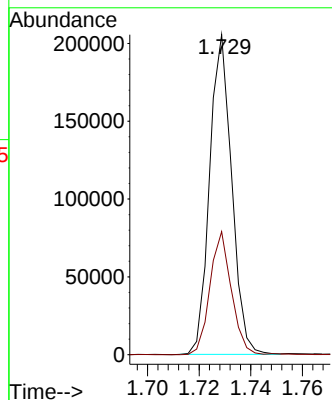
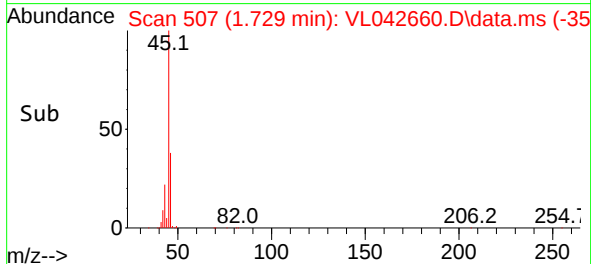
Instrument :
MSVOA_L
Client Sample Id :
IA1DL



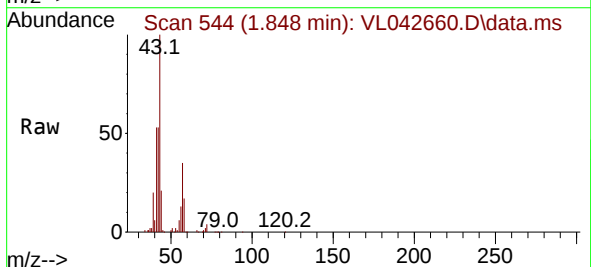
Tgt Ion: 45 Resp: 121725
Ion Ratio Lower Upper
45 100
46 37.7 14.5 58.1

Manual Integrations
APPROVED

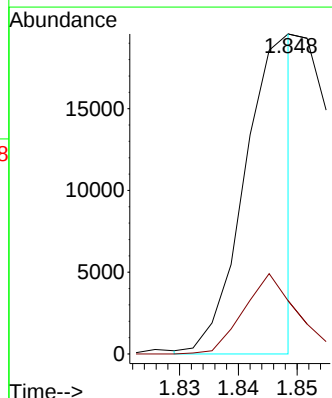
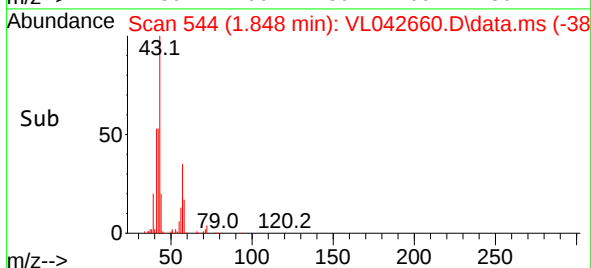
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

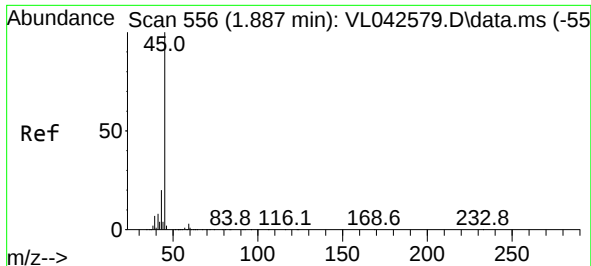


#15
Acetone
Concen: 0.884 ppbv m
RT: 1.848 min Scan# 544
Delta R.T. 0.013 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00



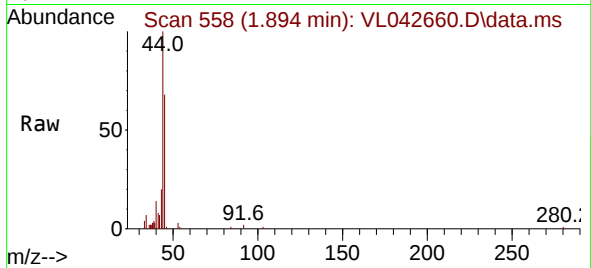
Tgt Ion: 43 Resp: 11510
Ion Ratio Lower Upper
43 100
58 28.0 21.0 31.4





#19
Isopropyl Alcohol
Concen: 0.317 ppbv m
RT: 1.894 min Scan# 51
Delta R.T. 0.007 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00

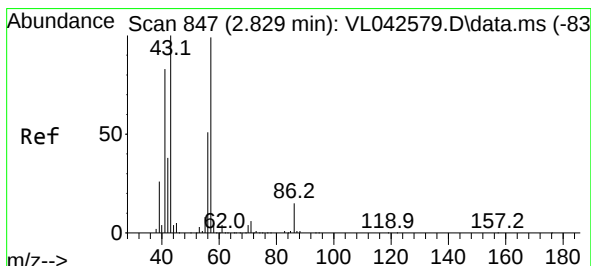
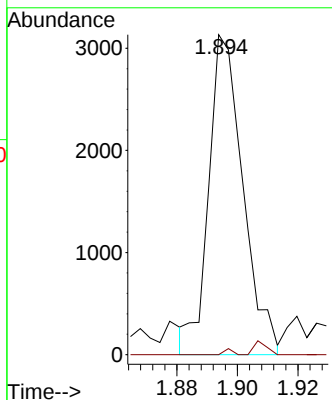
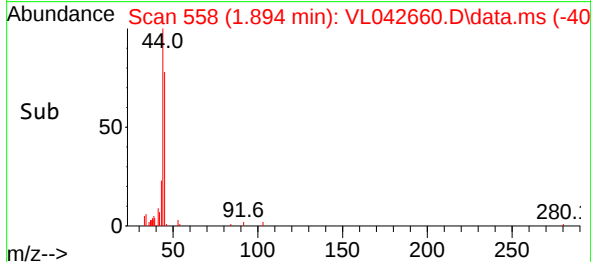
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



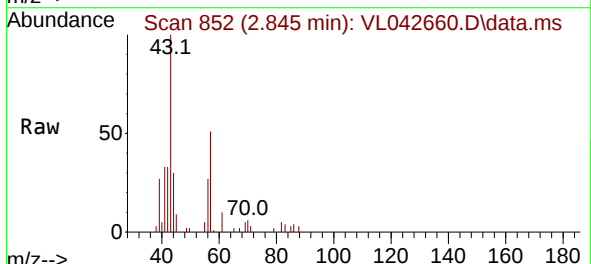
Tgt Ion: 45 Resp: 246
Ion Ratio Lower Upper
45 100
58 56.7 29.4 44.2

Manual Integrations
APPROVED

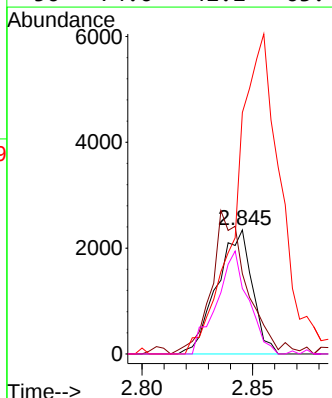
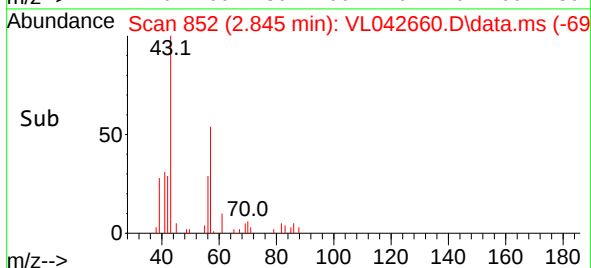
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025

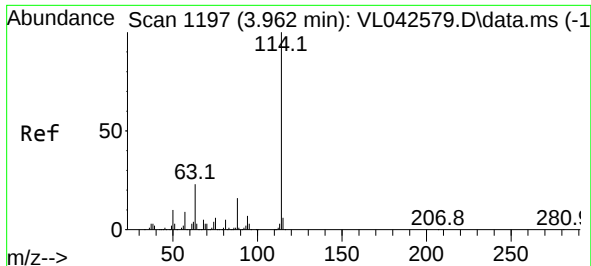


#26
Hexane
Concen: 0.160 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.016 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00



Tgt Ion: 57 Resp: 2590
Ion Ratio Lower Upper
57 100
41 118.0 70.6 106.0#
43 336.7 181.1 271.7#
56 74.6 42.2 63.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.981 min Scan# 1197

Delta R.T. 0.020 min

Lab File: VL042660.D

Acq: 19 Jun 2025 18:00

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tgt Ion:114 Resp: 274999

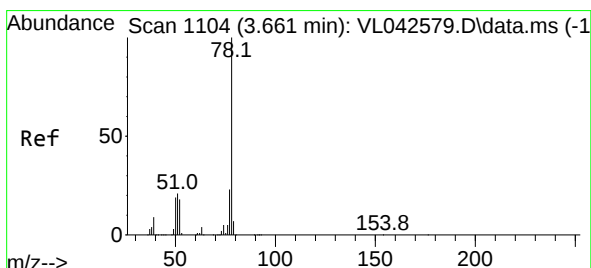
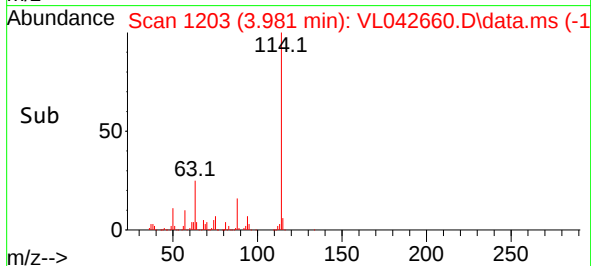
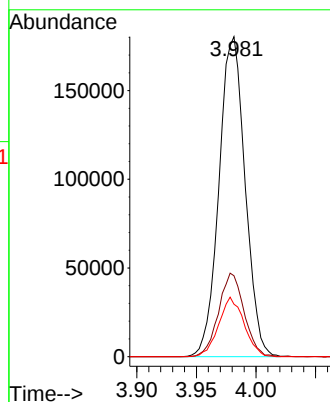
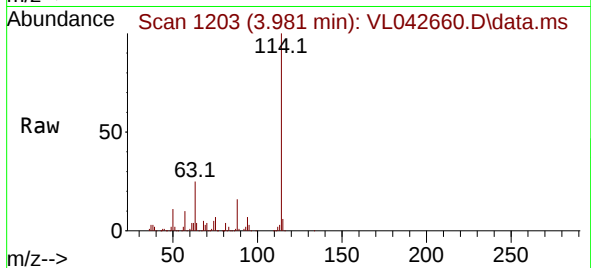
Ion	Ratio	Lower	Upper
114	100		
63	25.5	19.0	28.6
88	18.0	13.6	20.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025

Supervised By :Mahesh Dadoda 06/23/2025



#36

Benzene

Concen: 0.105 ppbv m

RT: 3.671 min Scan# 1107

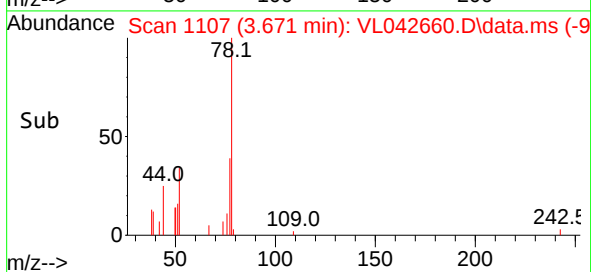
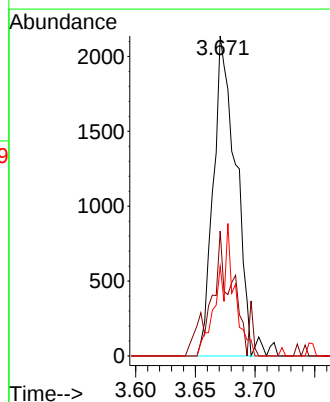
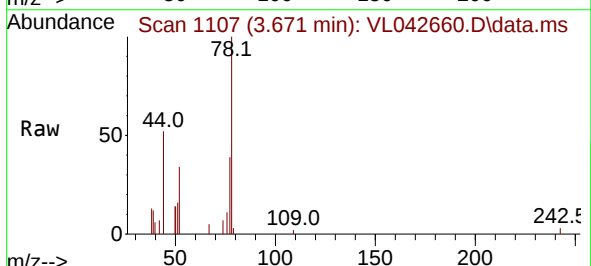
Delta R.T. 0.010 min

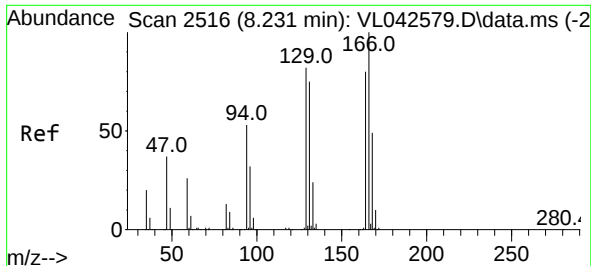
Lab File: VL042660.D

Acq: 19 Jun 2025 18:00

Tgt Ion: 78 Resp: 2840

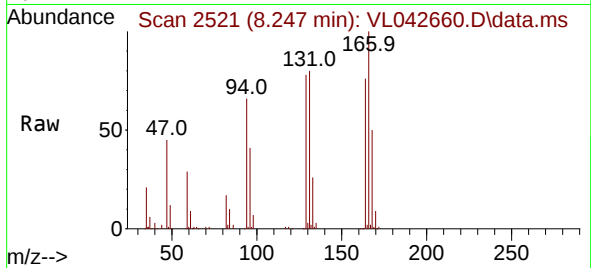
Ion	Ratio	Lower	Upper
78	100		
77	39.1	18.2	27.2#
50	14.2	15.2	22.8#





#52
Tetrachloroethene
Concen: 5.554 ppbv
RT: 8.247 min Scan# 2125
Delta R.T. 0.016 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00

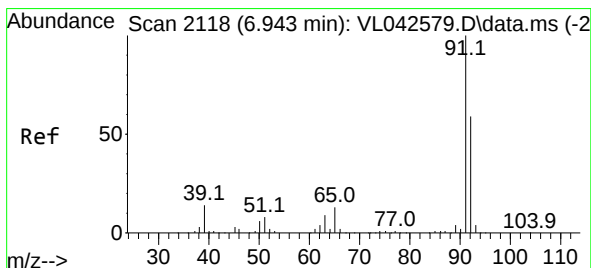
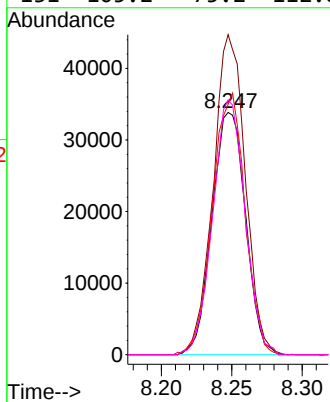
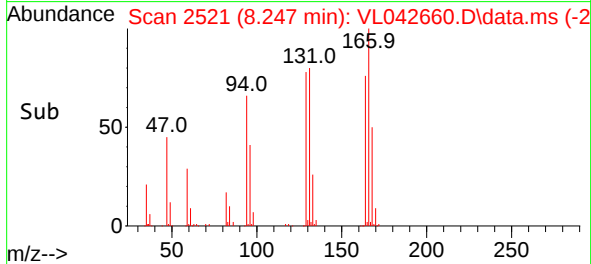
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



Tgt Ion:164 Resp: 56199
Ion Ratio Lower Upper
164 100
166 132.1 100.0 150.0
129 102.8 82.2 123.4
131 105.2 75.2 112.8

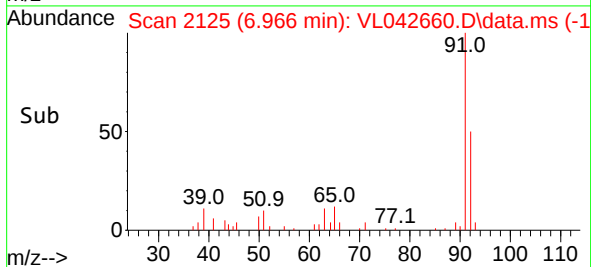
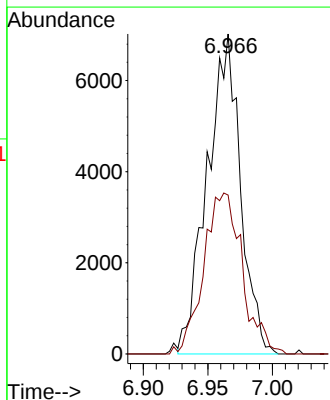
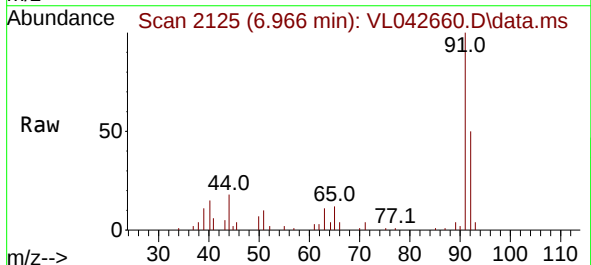
Manual Integrations
APPROVED

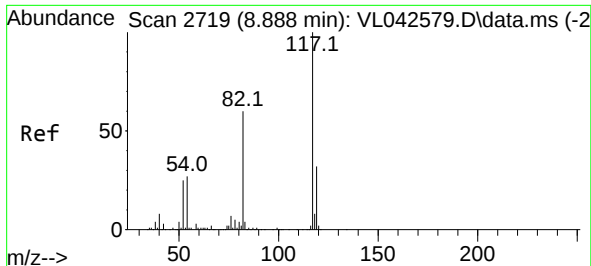
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#53
Toluene
Concen: 0.402 ppbv
RT: 6.966 min Scan# 2125
Delta R.T. 0.023 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00

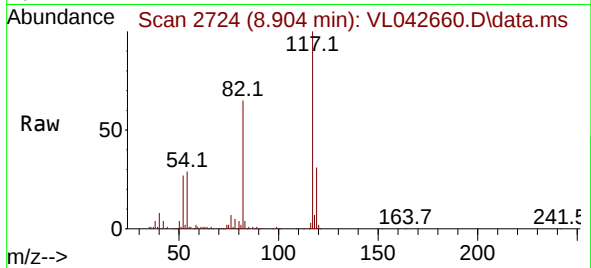
Tgt Ion: 91 Resp: 12587
Ion Ratio Lower Upper
91 100
92 58.3 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00

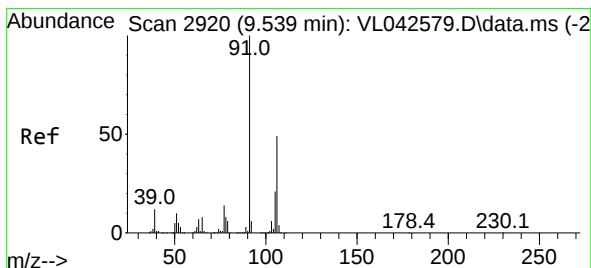
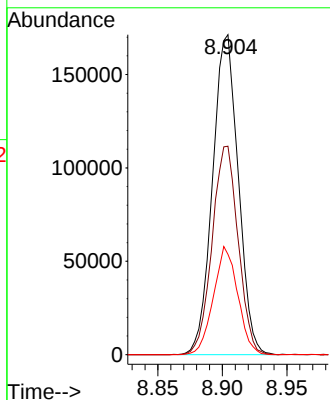
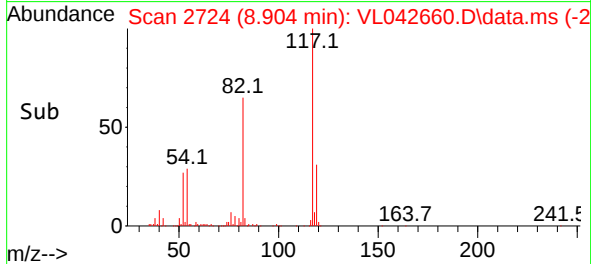
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



Tgt Ion:117 Resp: 237440
Ion Ratio Lower Upper
117 100
82 65.8 51.2 76.8
119 32.0 26.3 39.5

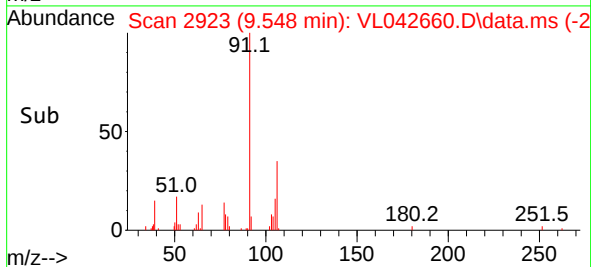
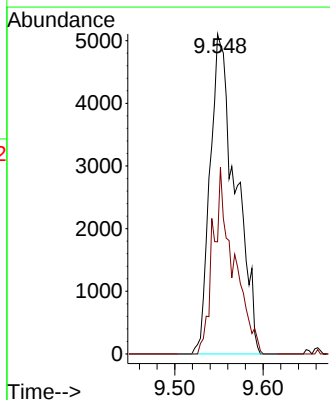
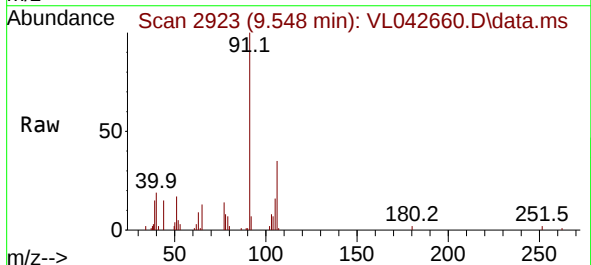
Manual Integrations
APPROVED

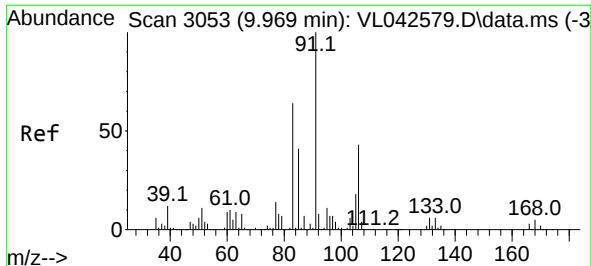
Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#59
m/p-Xylene
Concen: 0.323 ppbv m
RT: 9.548 min Scan# 2923
Delta R.T. 0.010 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00

Tgt Ion: 91 Resp: 10224
Ion Ratio Lower Upper
91 100
106 46.9 38.8 58.2





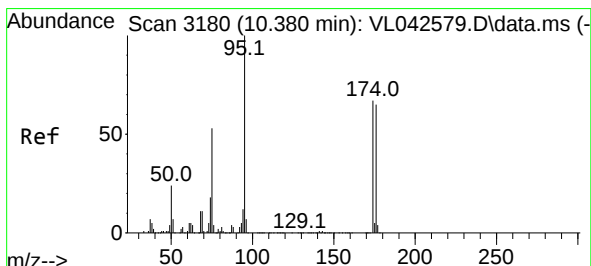
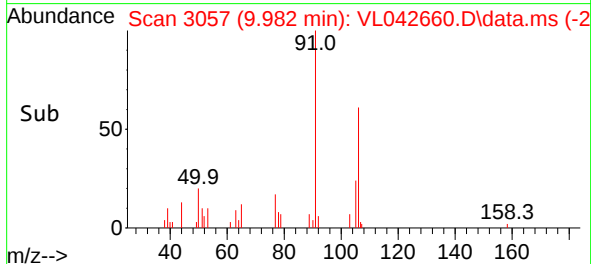
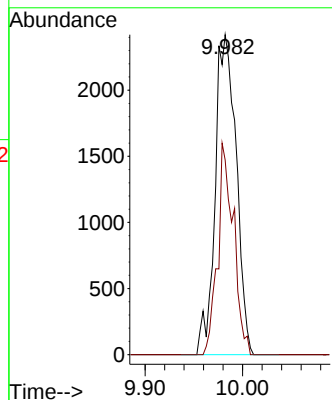
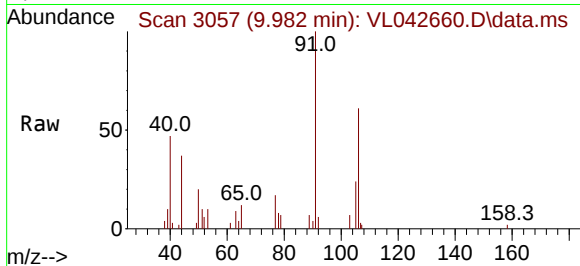
#60
o-Xylene
Concen: 0.115 ppbv m
RT: 9.982 min Scan# 3053
Delta R.T. 0.013 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion: 91 Resp: 363
Ion Ratio Lower Upper
91 100
106 132.1 22.9 68.5

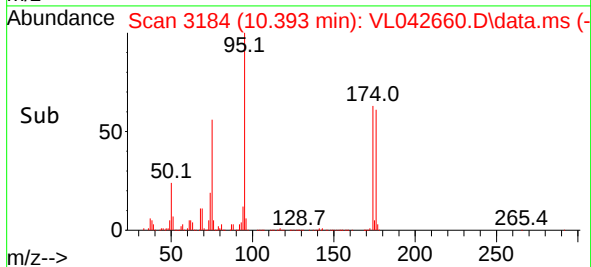
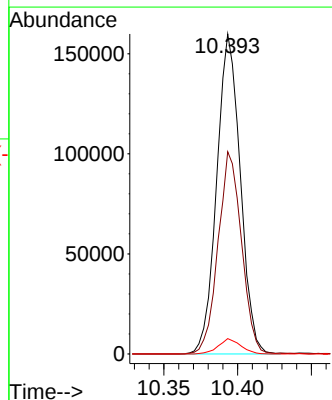
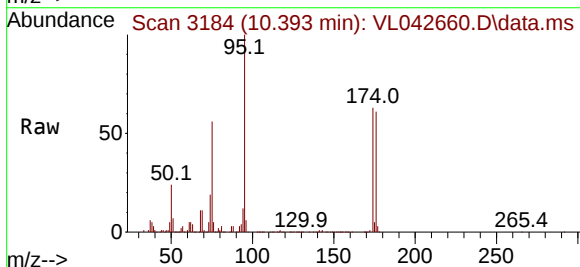
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
Supervised By :Mahesh Dadoda 06/23/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.983 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.013 min
Lab File: VL042660.D
Acq: 19 Jun 2025 18:00

Tgt Ion: 95 Resp: 177692
Ion Ratio Lower Upper
95 100
174 63.1 53.1 79.7
175 4.6 4.2 6.2





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q2368 SAS No.: Q2368 SDG No.: Q2368
 Instrument ID: MSVOA_L Calibration Date(s): 05/29/2025 05/29/2025
 Heated Purge: (Y/N) N Calibration Time(s): 11:09 14:24
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL042579.D		RRF002 = VL042580.D		RRF001 = VL042581.D		
		RRF0.5 = VL042582.D		RRF0.1 = VL042583.D		RRF.03 = VL042584.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.437	0.468	0.487	0.529	0.465	0.675	0.496	17.7
Heptane	1.777	1.981	2.082	2.079			1.921	9.4
1,1-Dichloroethene	0.377	0.437	0.451	0.451			0.416	10.1
Cyclohexane	1.146	1.288	1.363	1.318			1.242	9.4
cis-1,2-Dichloroethene	1.271	1.465	1.461	1.419			1.370	8
1,1,1-Trichloroethane	1.794	2.029	2.043	2.004	2.083	2.207	1.990	7.9
2,2,4-Trimethylpentane	1.522	1.765	1.830	1.811			1.684	9.7
Benzene	0.900	1.027	1.052	1.051			0.985	8.2
Trichloroethene	0.376	0.438	0.455	0.468	0.432	0.389	0.419	9.3
Toluene	1.054	1.197	1.190	1.210			1.138	7.4
Tetrachloroethene	0.333	0.390	0.383	0.391	0.407	0.351	0.368	8.9
Ethyl Benzene	1.547	1.833	1.786	1.770			1.696	8.2
m/p-Xylene	1.212	1.431	1.412	1.411			1.335	8.5
o-Xylene	1.187	1.441	1.410	1.430			1.331	9.9
1,3,5-Trimethylbenzene	1.235	1.475	1.482	1.441			1.374	9.3
1,2,4-Trimethylbenzene	1.335	1.666	1.675	1.640			1.524	12.3
Naphthalene	1.384	1.785	1.634	1.366	1.088		1.437	16.9
1-Bromo-4-Fluorobenzene	0.744	0.741	0.751	0.755	0.751	0.752	0.750	0.7
Hexane	1.350	1.526	1.638	1.690			1.498	11.8

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL052925AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Fri May 30 02:01:56 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042584.D 0.1 =VL042583.D 0.5 =VL042582.D 1 =VL042581.D 2 =VL042580.D 10 =VL042579.D 15 =VL042585.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.257	1.353	1.300	1.135	1.101	1.229	8.78
3) Chlorodifluoro...			1.881	1.861	1.826	1.475	1.420	1.693	13.32
4) Chloromethane			0.502	0.529	0.507	0.461	0.434	0.487	7.85
5) T Vinyl Chloride	0.675	0.465	0.529	0.487	0.468	0.437	0.409	0.496	17.69
6) T Bromomethane			0.310	0.251	0.230	0.216	0.200	0.241	17.69
7) Chloroethane			0.214	0.212	0.198	0.175	0.164	0.193	11.60
8) T Dichlorotetra...			1.099	1.098	1.075	0.948	0.900	1.024	9.11
9) T Propene			0.710	0.728	0.722	0.650	0.599	0.682	8.18
10) T Heptane			2.079	2.082	1.981	1.777	1.688	1.921	9.37
11) T Trichlorofluor...			1.193	1.209	1.202	1.071	1.043	1.144	6.98
12) T 1,1,2-Trichlor...			0.903	0.980	0.951	0.838	0.818	0.898	7.79
13) Ethanol			0.114	0.095	0.092	0.058	0.047	0.081	33.96
14) T Bromoethene			0.359	0.346	0.362	0.317	0.304	0.338	7.71
15) T Acetone			1.404	1.484	1.299	0.928	0.908	1.205	22.39
16) T 1,3-Butadiene			0.649	0.636	0.597	0.491	0.480	0.571	14.07
17) tert-Butyl alc...			1.337	1.334	1.279	1.237	1.088	1.255	8.14
18) T 1,1-Dichloroet...			0.451	0.451	0.437	0.377	0.364	0.416	10.11
19) T Isopropyl Alcohol			0.825	0.782	0.742	0.659	0.593	0.720	13.03
20) T Methylene Chlo...			0.473	0.457	0.418	0.326	0.314	0.398	18.57
21) T Allyl Chloride			0.924	0.921	0.866	0.789	0.749	0.850	9.22
22) T trans-1,2-Dich...			0.496	0.517	0.466	0.427	0.418	0.465	9.21
23) T Vinyl Acetate			1.750	1.663	1.686	1.458	1.584	1.628	6.89
24) T 1,1-Dichloroet...			0.996	1.046	1.004	0.903	0.833	0.957	9.03
25) T Ethyl Acetate			3.496	3.585	3.412	3.054	2.934	3.296	8.67
26) T Hexane			1.690	1.638	1.526	1.350	1.286	1.498	11.76
27) T Carbon Disulfide			1.174	1.267	1.198	1.069	1.040	1.150	8.16
28) T Methyl tert-Bu...			0.664	0.693	0.621	0.550	0.511	0.608	12.59
29) T Chloroform			2.099	2.120	2.034	1.755	1.731	1.948	9.74
30) T Cyclohexane			1.318	1.363	1.288	1.146	1.092	1.242	9.38
31) T cis-1,2-Dichlo...			1.419	1.461	1.465	1.271	1.235	1.370	7.96
32) T 1,1,1-Trichlor...	2.207	2.083	2.004	2.043	2.029	1.794	1.771	1.990	7.86

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.760	0.754	0.746	0.655	0.651	0.713	7.71
35) T Carbon Tetrach...	0.681	0.706	0.665	0.684	0.670	0.603	0.612	0.660	5.82
36) T Benzene			1.051	1.052	1.027	0.900	0.894	0.985	8.20
37) T 1,2-Dichloroet...			0.518	0.509	0.513	0.448	0.460	0.489	6.72
38) T Trichloroethene	0.389	0.432	0.468	0.455	0.438	0.376	0.373	0.419	9.28
39) T 1,2-Dichloropr...			0.415	0.374	0.373	0.329	0.330	0.364	9.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL052925AIR.M											
40)	T	1,4-Dioxane			0.172	0.178	0.168	0.152	0.145	0.163	8.70
41)	T	Tetrahydrofuran			0.445	0.446	0.426	0.388	0.382	0.417	7.33
42)	T	Bromodichlorom...			0.702	0.737	0.721	0.656	0.660	0.695	5.17
43)		Methyl Methacr...			0.398	0.384	0.406	0.366	0.357	0.382	5.36
44)	T	2,2,4-Trimethy...			1.811	1.830	1.765	1.522	1.495	1.684	9.67
45)	T	t-1,3-Dichloro...			0.433	0.455	0.456	0.424	0.418	0.437	4.01
46)	T	cis-1,3-Dichlo...			0.567	0.568	0.555	0.527	0.523	0.548	3.99
47)	T	1,1,2-Trichlor...			0.406	0.401	0.394	0.343	0.340	0.377	8.69
48)	T	Dibromochlorom...			0.600	0.642	0.635	0.570	0.571	0.603	5.64
49)	T	Bromoform			0.524	0.519	0.553	0.508	0.501	0.521	3.83
50)	T	4-Methyl-2-Pen...			1.036	1.030	1.002	0.958	0.919	0.989	5.05
51)	T	2-Hexanone			0.752	0.818	0.824	0.779	0.749	0.784	4.49
52)	T	Tetrachloroethene	0.351	0.407	0.391	0.383	0.390	0.333	0.321	0.368	8.93
53)	T	Toluene			1.210	1.190	1.197	1.054	1.040	1.138	7.35
54)	T	1,2-Dibromoethane		0.575	0.578	0.590	0.576	0.516	0.513	0.558	6.15
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.520	0.536	0.528	0.467	0.464	0.503	6.95
57)	T	Chlorobenzene			1.081	1.028	1.014	0.868	0.865	0.971	10.17
58)	T	Ethyl Benzene			1.770	1.786	1.833	1.547	1.545	1.696	8.19
59)	T	m/p-Xylene			1.411	1.412	1.431	1.212	1.208	1.335	8.55
60)	T	o-Xylene			1.430	1.410	1.441	1.187	1.188	1.331	9.87
61)	T	Styrene			0.626	0.658	0.678	0.590	0.596	0.629	6.07
62)		Isopropylbenzene			2.060	2.129	2.121	1.772	1.751	1.967	9.62
63)	T	1,1,2,2-Tetrac...	1.054	0.828	0.879	0.861	0.855	0.723	0.727	0.847	13.16
64)		n-propylbenzene			0.579	0.541	0.570	0.471	0.475	0.527	9.74
65)		tert-Butylbenzene			1.945	1.923	1.942	1.577	1.538	1.785	11.68
66)	T	Benzyl Chloride			0.199	0.237	0.252	0.241	0.220	0.230	8.94
67)		sec-Butylbenzene			2.745	2.743	2.699	2.195	2.165	2.509	12.01
68)	S	1-Bromo-4-Fluo...	0.752	0.751	0.755	0.751	0.741	0.744	0.754	0.750	0.68
69)		p-Isopropyltol...			2.241	2.249	2.299	1.868	1.851	2.101	10.57
70)		n-Butylbenzene			2.110	2.267	2.299	1.842	1.853	2.074	10.56
71)		2-Chlorotoluene			1.603	1.620	1.596	1.343	1.339	1.500	9.70
72)	T	4-Ethyltoluene			1.704	1.797	1.823	1.481	1.494	1.660	9.86
73)	T	1,3,5-Trimethy...			1.441	1.482	1.475	1.235	1.236	1.374	9.25
74)	T	1,2,4-Trimethy...			1.640	1.675	1.666	1.335	1.306	1.524	12.26
75)	T	1,3-Dichlorobe...			1.031	1.034	1.040	0.839	0.843	0.957	11.13
76)	T	1,4-Dichlorobe...			0.998	1.040	1.037	0.849	0.851	0.955	10.18
77)	T	1,2-Dichlorobe...			1.019	1.008	1.027	0.798	0.793	0.929	13.14
78)	T	Hexachloro-1,3...			0.872	0.893	0.880	0.607	0.593	0.769	20.11
79)	T	Naphthalene		1.088	1.366	1.634	1.785	1.383	1.366	1.437	16.89
80)	T	Naphthalene,2-...			0.444	0.562	0.781	0.716	0.743	0.649	21.85
81)	T	1,2,4-Trichlor...			0.716	0.889	0.944	0.735	0.727	0.802	13.26

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:16:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102792	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	307854	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	285844	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 212758 9.929 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	116625	9.232	ppbv	100
3) Chlorodifluoromethane	1.476	51	151637	8.715	ppbv	100
4) Chloromethane	1.534	50	47416	9.478	ppbv	100
5) Vinyl Chloride	1.580	62	44895	8.809	ppbv	100
6) Bromomethane	1.667	94	22207	8.953	ppbv	100
7) Chloroethane	1.706	64	17953	9.066	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	97419	9.255	ppbv	100
9) Propene	1.483	41	66767	9.529	ppbv	100
10) Heptane	4.981	43	182619	9.236	ppbv	100
11) Trichlorofluoromethane	1.877	101	110055	9.363	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	86117	9.330	ppbv	100
13) Ethanol	1.722	45	5975m	7.639	ppbv	
14) Bromoethene	1.784	108	32588	9.386	ppbv	100
15) Acetone	1.835	43	95441	7.708	ppbv	100
16) 1,3-Butadiene	1.609	39	50485	8.607	ppbv	100
17) tert-Butyl alcohol	2.043	59	127162	9.858	ppbv	100
18) 1,1-Dichloroethene	2.036	96	38765	9.026	ppbv	100
19) Isopropyl Alcohol	1.887	45	67731	9.151	ppbv	100
20) Methylene Chloride	2.062	84	33544	8.209	ppbv	100
21) Allyl Chloride	2.098	41	81153	9.289	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	43936	9.165	ppbv	100
23) Vinyl Acetate	2.467	43	149858	8.954	ppbv	100
24) 1,1-Dichloroethane	2.412	63	92836	9.442	ppbv	100
25) Ethyl Acetate	2.839	43	313915	9.264	ppbv	100
26) Hexane	2.829	57	138771	9.013	ppbv	100
27) Carbon Disulfide	2.153	76	109904	9.298	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	56510	9.045	ppbv	100
29) Chloroform	2.852	83	180449	9.013	ppbv	100
30) Cyclohexane	3.858	84	117833	9.232	ppbv	100
31) cis-1,2-Dichloroethene	2.722	61	130618	9.274	ppbv	100
32) 1,1,1-Trichloroethane	3.370	97	184372	9.177	ppbv	100
34) 2-Butanone	2.560	43	201796	9.192	ppbv	100
35) Carbon Tetrachloride	3.768	117	185629	9.132	ppbv	100
36) Benzene	3.661	78	277132	9.142	ppbv	100
37) 1,2-Dichloroethane	3.221	62	137914	9.153	ppbv	100
38) Trichloroethene	4.551	130	115772	8.916	ppbv	100
39) 1,2-Dichloropropane	4.318	63	101185	9.029	ppbv	100
40) 1,4-Dioxane	4.590	88	46671	9.797	ppbv #	100
41) Tetrahydrofuran	3.059	42	119530	9.301	ppbv	100
42) Bromodichloromethane	4.496	83	202026	9.441	ppbv	100
43) Methyl Methacrylate	4.884	69	112746	9.595	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	468572	9.043	ppbv	100
45) t-1,3-Dichloropropene	6.422	75	130611	9.700	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042579.D
 Acq On : 29 May 2025 11:09
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:16:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	162155	9.614	ppbv	100
47) 1,1,2-Trichloroethane	6.587	97	105576	9.097	ppbv	100
48) Dibromochloromethane	7.396	129	175572	9.450	ppbv	100
49) Bromoform	9.490	173	156317	9.751	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	294836	9.643	ppbv	100
51) 2-Hexanone	7.445	43	239826	9.930	ppbv	100
52) Tetrachloroethene	8.231	164	102403	9.038	ppbv	100
53) Toluene	6.943	91	324605	9.264	ppbv	100
54) 1,2-Dibromoethane	7.658	107	158813	9.231	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.930	131	133368	9.279	ppbv	100
57) Chlorobenzene	8.927	112	248085	8.938	ppbv	100
58) Ethyl Benzene	9.361	91	442268	9.121	ppbv	100
59) m/p-Xylene	9.539	91	692934m	18.156	ppbv	
60) o-Xylene	9.969	91	339403	8.919	ppbv	100
61) Styrene	9.875	104	168674	9.374	ppbv	100
62) Isopropylbenzene	10.545	105	506586	9.010	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	206564	8.536	ppbv	100
64) n-propylbenzene	10.992	120	134675	8.936	ppbv	99
65) tert-Butylbenzene	11.536	119	450639	8.833	ppbv	100
66) Benzyl Chloride	11.620	91	68801	10.457	ppbv	100
67) sec-Butylbenzene	11.772	105	627565	8.749	ppbv	100
69) p-Isopropyltoluene	11.931	119	533961	8.889	ppbv	100
70) n-Butylbenzene	12.287	91	526566	8.881	ppbv	100
71) 2-Chlorotoluene	10.904	91	383881	8.952	ppbv	100
72) 4-Ethyltoluene	11.131	105	423227	8.920	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	352978	8.989	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	381512	8.755	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	239782	8.762	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	242731	8.894	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	228222	8.593	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	173447	7.893	ppbv	100
79) Naphthalene	13.516	128	395465	9.666	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	204746	11.045	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	210120	9.163	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:17:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	104930	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	310090	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	284199	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	210508	9.881	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	27278	2.115	ppbv	99
3) Chlorodifluoromethane	1.476	51	38320	2.157	ppbv	98
4) Chloromethane	1.534	50	10641	2.084	ppbv	98
5) Vinyl Chloride	1.580	62	9819	1.887	ppbv	98
6) Bromomethane	1.670	94	4819	1.903	ppbv	83
7) Chloroethane	1.706	64	4162	2.059	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	22568	2.100	ppbv	98
9) Propene	1.483	41	15155	2.119	ppbv	96
10) Heptane	4.988	43	41577	2.060	ppbv	97
11) Trichlorofluoromethane	1.878	101	25215	2.101	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.143	101	19963	2.119	ppbv	99
13) Ethanol	1.722	45	1925m	2.411	ppbv	
14) Bromoethene	1.784	108	7607	2.146	ppbv #	94
15) Acetone	1.839	43	27254	2.156	ppbv	100
16) 1,3-Butadiene	1.609	39	12523	2.092	ppbv	95
17) tert-Butyl alcohol	2.046	59	26842	2.039	ppbv	96
18) 1,1-Dichloroethene	2.036	96	9179	2.094	ppbv	95
19) Isopropyl Alcohol	1.887	45	15567	2.060	ppbv #	43
20) Methylene Chloride	2.062	84	8763	2.101	ppbv	95
21) Allyl Chloride	2.098	41	18178	2.038	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9775	1.998	ppbv	97
23) Vinyl Acetate	2.467	43	35373	2.070	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	21077	2.100	ppbv	98
25) Ethyl Acetate	2.842	43	71613	2.070	ppbv	99
26) Hexane	2.829	57	32018	2.037	ppbv	97
27) Carbon Disulfide	2.153	76	25143	2.084	ppbv #	62
28) Methyl tert-Butyl Ether	2.444	73	13034	2.044	ppbv #	90
29) Chloroform	2.852	83	42693	2.089	ppbv	93
30) Cyclohexane	3.858	84	27030	2.075	ppbv	96
31) cis-1,2-Dichloroethene	2.726	61	30737	2.138	ppbv	93
32) 1,1,1-Trichloroethane	3.373	97	42588	2.077	ppbv	99
34) 2-Butanone	2.564	43	46279	2.093	ppbv	100
35) Carbon Tetrachloride	3.768	117	41545	2.029	ppbv	95
36) Benzene	3.661	78	63709	2.086	ppbv	96
37) 1,2-Dichloroethane	3.221	62	31831	2.097	ppbv	97
38) Trichloroethene	4.554	130	27139	2.075	ppbv	95
39) 1,2-Dichloropropane	4.321	63	23145	2.050	ppbv	98
40) 1,4-Dioxane	4.603	88	10426m	2.173	ppbv	
41) Tetrahydrofuran	3.062	42	26391	2.039	ppbv	96
42) Bromodichloromethane	4.496	83	44705	2.074	ppbv	90
43) Methyl Methacrylate	4.894	69	25156m	2.126	ppbv	
44) 2,2,4-Trimethylpentane	4.648	57	109446	2.097	ppbv	100
45) t-1,3-Dichloropropene	6.432	75	28273m	2.085	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042580.D
 Acq On : 29 May 2025 11:43
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:17:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

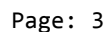
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	34445	2.027	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	24455	2.092	ppbv	94
48) Dibromochloromethane	7.396	129	39361	2.103	ppbv	99
49) Bromoform	9.487	173	34270	2.122	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	62167	2.018	ppbv	99
51) 2-Hexanone	7.451	43	51074	2.100	ppbv #	97
52) Tetrachloroethene	8.234	164	24205	2.121	ppbv	95
53) Toluene	6.940	91	74240	2.104	ppbv	99
54) 1,2-Dibromoethane	7.661	107	35750	2.063	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.933	131	30026	2.101	ppbv	97
57) Chlorobenzene	8.930	112	57617	2.088	ppbv	95
58) Ethyl Benzene	9.361	91	104171	2.161	ppbv	96
59) m/p-Xylene	9.558	91	162694m	4.288	ppbv	
60) o-Xylene	9.969	91	81886	2.164	ppbv	97
61) Styrene	9.879	104	38542	2.154	ppbv	99
62) Isopropylbenzene	10.545	105	120576	2.157	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	48590	2.020	ppbv	99
64) n-propylbenzene	10.995	120	32406	2.163	ppbv	100
65) tert-Butylbenzene	11.536	119	110380	2.176	ppbv	99
66) Benzyl Chloride	11.620	91	14327	2.190	ppbv	98
67) sec-Butylbenzene	11.772	105	153401	2.151	ppbv	99
69) p-Isopropyltoluene	11.931	119	130647	2.188	ppbv	99
70) n-Butylbenzene	12.287	91	130662	2.216	ppbv	100
71) 2-Chlorotoluene	10.908	91	90725	2.128	ppbv	99
72) 4-Ethyltoluene	11.128	105	103640	2.197	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	83829	2.147	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	94716	2.186	ppbv	98
75) 1,3-Dichlorobenzene	11.610	146	59138	2.174	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	58920	2.171	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	58400	2.212	ppbv	96
78) Hexachloro-1,3-Butadiene	13.885	225	49999	2.288	ppbv	98
79) Naphthalene	13.517	128	101451	2.494	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	44376	2.408	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	53653	2.353	ppbv	97

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

Manual Integrations APPROVED

Quant Time: May 30 01:17:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:18:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	101864	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	307159	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	279402	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 209886 10.021 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	13779	1.101	ppbv	95
3) Chlorodifluoromethane	1.476	51	18960	1.100	ppbv	99
4) Chloromethane	1.531	50	5387	1.087	ppbv	89
5) Vinyl Chloride	1.580	62	4964	0.983	ppbv	99
6) Bromomethane	1.667	94	2560	1.041	ppbv	99
7) Chloroethane	1.703	64	2164	1.103	ppbv #	84
8) Dichlorotetrafluoroethane	1.554	85	11182	1.072	ppbv	98
9) Propene	1.483	41	7413	1.068	ppbv	97
10) Heptane	4.981	43	21213m	1.083	ppbv	
11) Trichlorofluoromethane	1.878	101	12319	1.058	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	9979	1.091	ppbv	98
13) Ethanol	1.722	45	968	1.249	ppbv #	61
14) Bromoethene	1.780	108	3524	1.024	ppbv #	97
15) Acetone	1.835	43	15114	1.232	ppbv	98
16) 1,3-Butadiene	1.609	39	6483	1.115	ppbv	92
17) tert-Butyl alcohol	2.043	59	13587	1.063	ppbv #	83
18) 1,1-Dichloroethene	2.036	96	4598	1.080	ppbv	85
19) Isopropyl Alcohol	1.887	45	7964	1.086	ppbv #	38
20) Methylene Chloride	2.062	84	4654	1.149	ppbv	98
21) Allyl Chloride	2.094	41	9378	1.083	ppbv #	83
22) trans-1,2-Dichloroethene	2.340	96	5269	1.109	ppbv	98
23) Vinyl Acetate	2.463	43	16945	1.022	ppbv #	96
24) 1,1-Dichloroethane	2.408	63	10651	1.093	ppbv #	98
25) Ethyl Acetate	2.839	43	36518	1.088	ppbv	99
26) Hexane	2.826	57	16686	1.094	ppbv	99
27) Carbon Disulfide	2.149	76	12910	1.102	ppbv #	22
28) Methyl tert-Butyl Ether	2.441	73	7064	1.141	ppbv	93
29) Chloroform	2.849	83	21594	1.088	ppbv	100
30) Cyclohexane	3.858	84	13889	1.098	ppbv	96
31) cis-1,2-Dichloroethene	2.722	61	14880	1.066	ppbv	89
32) 1,1,1-Trichloroethane	3.370	97	20811	1.045	ppbv	97
34) 2-Butanone	2.560	43	23148	1.057	ppbv	99
35) Carbon Tetrachloride	3.765	117	21013	1.036	ppbv	89
36) Benzene	3.658	78	32310	1.068	ppbv	99
37) 1,2-Dichloroethane	3.218	62	15623	1.039	ppbv	97
38) Trichloroethene	4.551	130	13969	1.078	ppbv	98
39) 1,2-Dichloropropane	4.321	63	11488	1.027	ppbv	87
40) 1,4-Dioxane	4.600	88	5479m	1.153	ppbv	
41) Tetrahydrofuran	3.062	42	13711	1.069	ppbv	99
42) Bromodichloromethane	4.490	83	22628	1.060	ppbv #	96
43) Methyl Methacrylate	4.884	69	11810	1.007	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	56202m	1.087	ppbv	
45) t-1,3-Dichloropropene	6.415	75	13988m	1.041	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042581.D
 Acq On : 29 May 2025 12:15
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:18:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	17453m	1.037	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	12328m	1.065	ppbv	
48) Dibromochloromethane	7.393	129	19719	1.064	ppbv	99
49) Bromoform	9.484	173	15937	0.996	ppbv	96
50) 4-Methyl-2-Pentanone	5.765	43	31646	1.037	ppbv	99
51) 2-Hexanone	7.445	43	25135	1.043	ppbv #	96
52) Tetrachloroethene	8.228	164	11770	1.041	ppbv	97
53) Toluene	6.936	91	36540	1.045	ppbv	97
54) 1,2-Dibromoethane	7.658	107	18114	1.055	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.927	131	14971	1.066	ppbv	95
57) Chlorobenzene	8.927	112	28714	1.058	ppbv	100
58) Ethyl Benzene	9.357	91	49899	1.053	ppbv	96
59) m/p-Xylene	9.535	91	78893m	2.115	ppbv	
60) o-Xylene	9.966	91	39398	1.059	ppbv	99
61) Styrene	9.875	104	18371	1.045	ppbv	100
62) Isopropylbenzene	10.542	105	59492	1.083	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	24057	1.017	ppbv	99
64) n-propylbenzene	10.992	120	15107	1.026	ppbv	90
65) tert-Butylbenzene	11.532	119	53720	1.077	ppbv	99
66) Benzyl Chloride	11.617	91	6617	1.029	ppbv	98
67) sec-Butylbenzene	11.769	105	76631	1.093	ppbv	100
69) p-Isopropyltoluene	11.927	119	62849	1.070	ppbv	100
70) n-Butylbenzene	12.283	91	63350	1.093	ppbv	99
71) 2-Chlorotoluene	10.901	91	45250	1.080	ppbv	99
72) 4-Ethyltoluene	11.128	105	50214	1.083	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	41412	1.079	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	46810	1.099	ppbv #	90
75) 1,3-Dichlorobenzene	11.610	146	28889	1.080	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	29060	1.089	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	28176	1.085	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	24950	1.162	ppbv	98
79) Naphthalene	13.517	128	45649	1.141	ppbv #	94
80) Naphthalene,2-methyl-	14.458	142	15700	0.866	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	24843	1.108	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: May 30 01:19:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	102909	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	304613	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	276104	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	208325	10.065	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	6470	0.512	ppbv	98
3) Chlorodifluoromethane	1.476	51	9678	0.556	ppbv	96
4) Chloromethane	1.531	50	2584	0.516	ppbv	97
5) Vinyl Chloride	1.580	62	2721	0.533	ppbv	96
6) Bromomethane	1.667	94	1594	0.642	ppbv #	74
7) Chloroethane	1.706	64	1099	0.554	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	5655	0.537	ppbv	97
9) Propene	1.483	41	3653	0.521	ppbv	87
10) Heptane	4.988	43	10697	0.540	ppbv	98
11) Trichlorofluoromethane	1.878	101	6138	0.522	ppbv	91
12) 1,1,2-Trichlorotrifluo...	2.140	101	4647	0.503	ppbv	89
13) Ethanol	1.722	45	586m	0.748	ppbv	
14) Bromoethene	1.781	108	1849	0.532	ppbv #	84
15) Acetone	1.836	43	7225	0.583	ppbv	95
16) 1,3-Butadiene	1.609	39	3340	0.569	ppbv	89
17) tert-Butyl alcohol	2.046	59	6877	0.533	ppbv #	92
18) 1,1-Dichloroethene	2.036	96	2319	0.539	ppbv #	73
19) Isopropyl Alcohol	1.887	45	4245	0.573	ppbv #	44
20) Methylene Chloride	2.062	84	2435	0.595	ppbv	93
21) Allyl Chloride	2.098	41	4754	0.544	ppbv	96
22) trans-1,2-Dichloroethene	2.341	96	2553	0.532	ppbv	93
23) Vinyl Acetate	2.464	43	9005	0.537	ppbv #	86
24) 1,1-Dichloroethane	2.409	63	5127	0.521	ppbv #	89
25) Ethyl Acetate	2.842	43	17990	0.530	ppbv	98
26) Hexane	2.826	57	8694	0.564	ppbv	96
27) Carbon Disulfide	2.153	76	6043	0.511	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	3416	0.546	ppbv #	81
29) Chloroform	2.849	83	10798	0.539	ppbv	98
30) Cyclohexane	3.855	84	6784m	0.531	ppbv	
31) cis-1,2-Dichloroethene	2.722	61	7302	0.518	ppbv	97
32) 1,1,1-Trichloroethane	3.367	97	10309	0.513	ppbv	98
34) 2-Butanone	2.564	43	11569	0.533	ppbv	99
35) Carbon Tetrachloride	3.761	117	10126	0.503	ppbv	92
36) Benzene	3.661	78	16000	0.533	ppbv	95
37) 1,2-Dichloroethane	3.224	62	7883	0.529	ppbv	98
38) Trichloroethene	4.554	130	7126	0.555	ppbv	92
39) 1,2-Dichloropropane	4.318	63	6317m	0.570	ppbv	
40) 1,4-Dioxane	4.609	88	2618m	0.555	ppbv	
41) Tetrahydrofuran	3.066	42	6775	0.533	ppbv	96
42) Bromodichloromethane	4.490	83	10688	0.505	ppbv	94
43) Methyl Methacrylate	4.888	69	6056	0.521	ppbv	96
44) 2,2,4-Trimethylpentane	4.645	57	27584	0.538	ppbv	96
45) t-1,3-Dichloropropene	6.422	75	6598	0.495	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042582.D
 Acq On : 29 May 2025 12:47
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:19:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

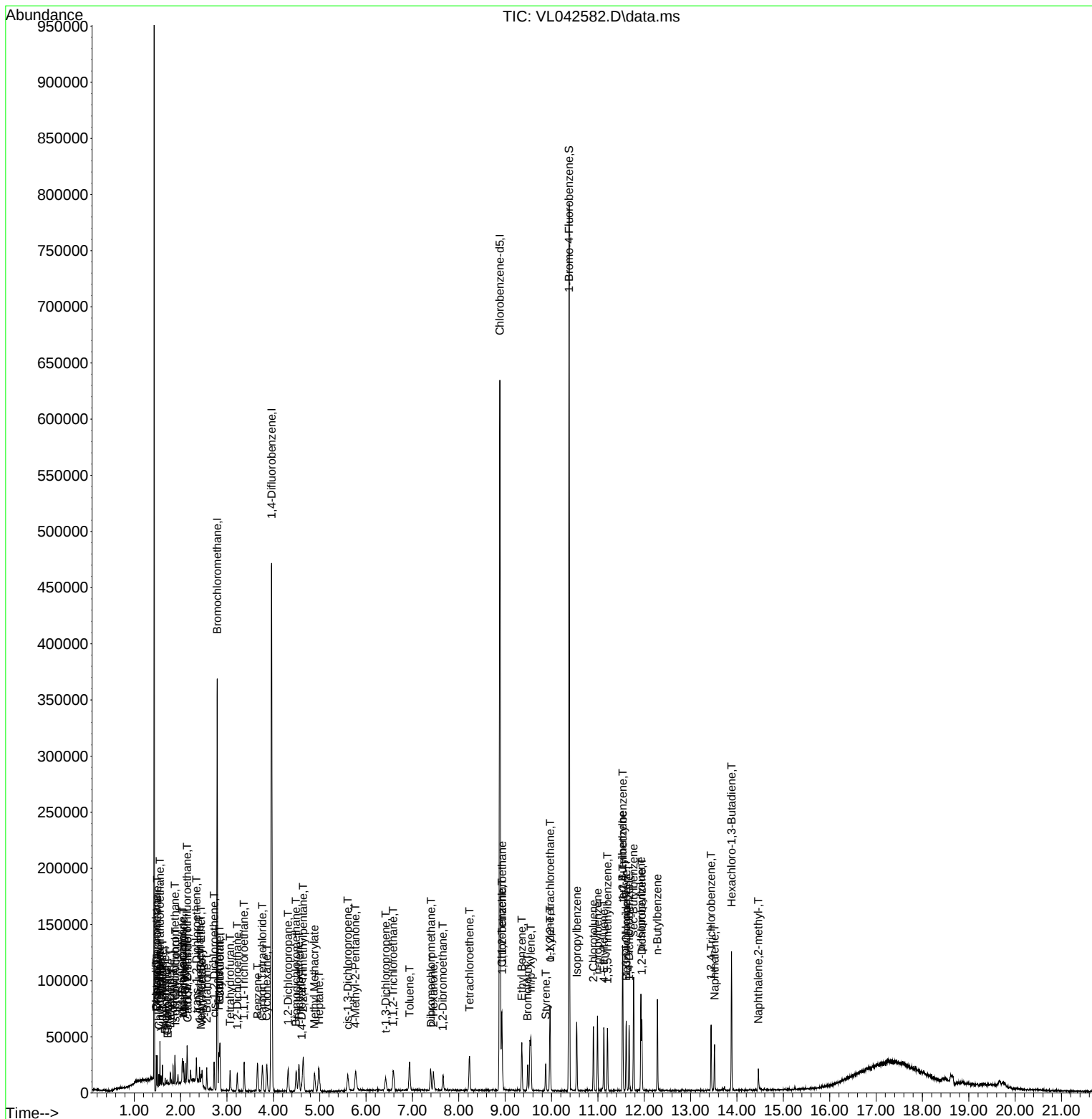
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	8637m	0.518	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	6189m	0.539	ppbv	
48) Dibromochloromethane	7.399	129	9133m	0.497	ppbv	
49) Bromoform	9.484	173	7974	0.503	ppbv	98
50) 4-Methyl-2-Pentanone	5.771	43	15782m	0.522	ppbv	
51) 2-Hexanone	7.451	43	11458	0.479	ppbv #	98
52) Tetrachloroethene	8.231	164	5950	0.531	ppbv	87
53) Toluene	6.940	91	18429	0.532	ppbv	100
54) 1,2-Dibromoethane	7.655	107	8810	0.518	ppbv	82
56) 1,1,1,2-Tetrachloroethane	8.934	131	7178	0.517	ppbv	89
57) Chlorobenzene	8.930	112	14920	0.557	ppbv	89
58) Ethyl Benzene	9.358	91	24442	0.522	ppbv	88
59) m/p-Xylene	9.555	91	38955m	1.057	ppbv	
60) o-Xylene	9.966	91	19745	0.537	ppbv	99
61) Styrene	9.875	104	8639	0.497	ppbv	99
62) Isopropylbenzene	10.545	105	28442	0.524	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	12137	0.519	ppbv	97
64) n-propylbenzene	10.995	120	7993	0.549	ppbv	97
65) tert-Butylbenzene	11.533	119	26856	0.545	ppbv	99
66) Benzyl Chloride	11.614	91	2753m	0.433	ppbv	
67) sec-Butylbenzene	11.769	105	37899	0.547	ppbv	98
69) p-Isopropyltoluene	11.931	119	30931	0.533	ppbv	99
70) n-Butylbenzene	12.284	91	29130	0.509	ppbv	98
71) 2-Chlorotoluene	10.905	91	22135	0.534	ppbv	100
72) 4-Ethyltoluene	11.128	105	23521	0.513	ppbv	97
73) 1,3,5-Trimethylbenzene	11.206	105	19891	0.524	ppbv	86
74) 1,2,4-Trimethylbenzene	11.536	105	22635	0.538	ppbv #	83
75) 1,3-Dichlorobenzene	11.610	146	14232	0.538	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	13773	0.522	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	14062	0.548	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	12036	0.567	ppbv	97
79) Naphthalene	13.517	128	18853	0.477	ppbv	96
80) Naphthalene,2-methyl-	14.462	142	6126	0.342	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	9879	0.446	ppbv	99

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

Manual Integrations

Quant Time: May 30 01:19:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042583.D
 Acq On : 29 May 2025 13:19
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:35:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103370	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	302218	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	205672	10.018	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	481	0.094	ppbv #	31
32) 1,1,1-Trichloroethane	3.373	97	2153	0.107	ppbv	90
35) Carbon Tetrachloride	3.768	117	2135	0.107	ppbv #	76
38) Trichloroethene	4.548	130	1305m	0.102	ppbv	
52) Tetrachloroethene	8.238	164	1230m	0.111	ppbv	
54) 1,2-Dibromoethane	7.658	107	1737m	0.103	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	2267	0.098	ppbv	96
79) Naphthalene	13.523	128	2980m	0.076	ppbv	

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

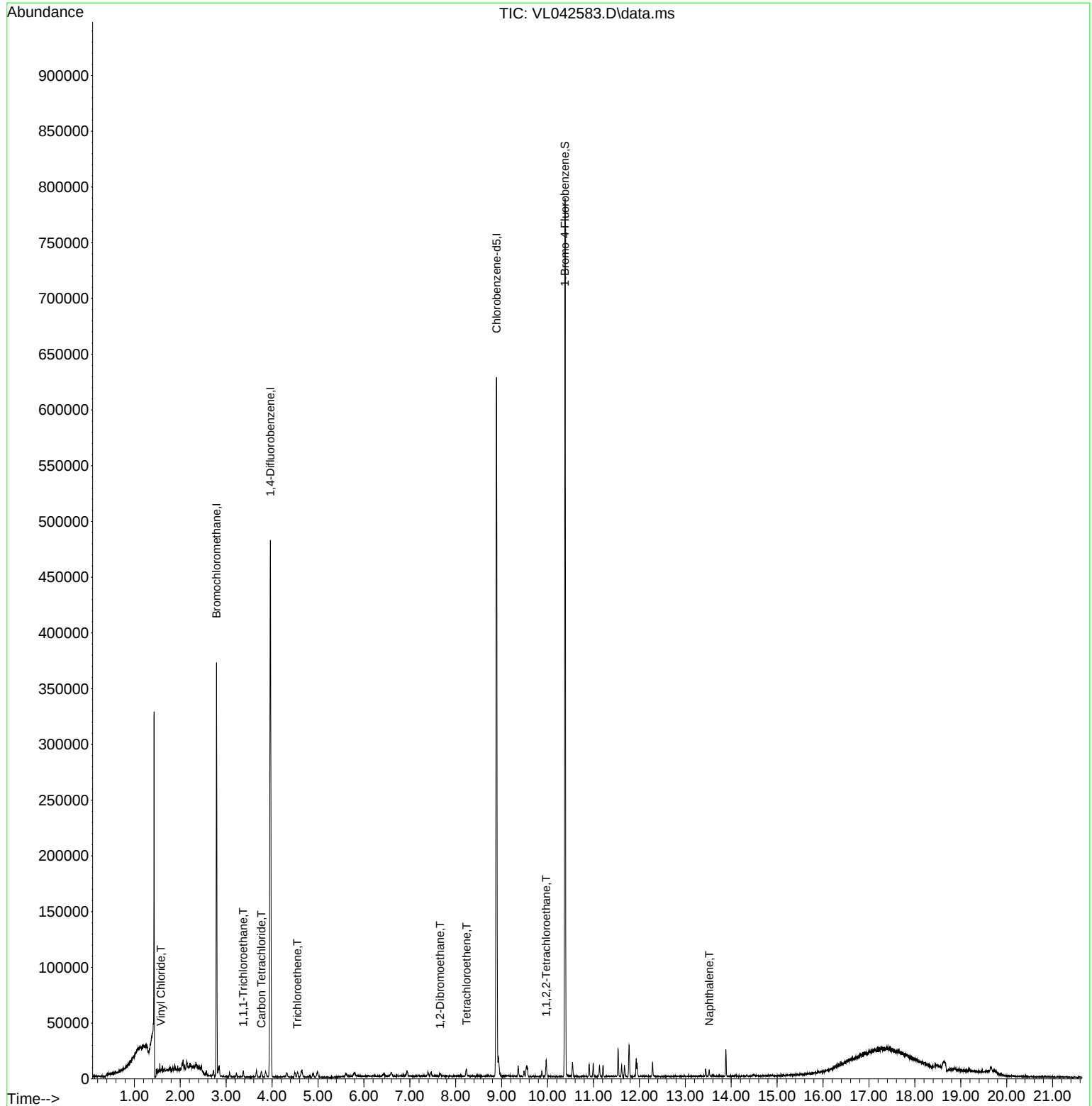
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042583.D
Acq On : 29 May 2025 13:19
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:35:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042584.D
 Acq On : 29 May 2025 13:51
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:36:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri May 30 01:15:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103144	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	305114	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	273881	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	205981	10.033	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.577	62	209	0.041	ppbv #	77
32) 1,1,1-Trichloroethane	3.373	97	683m	0.034	ppbv	
35) Carbon Tetrachloride	3.764	117	623m	0.031	ppbv	
38) Trichloroethene	4.541	130	356m	0.028	ppbv	
52) Tetrachloroethene	8.228	164	321m	0.029	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	866	0.037	ppbv #	82

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

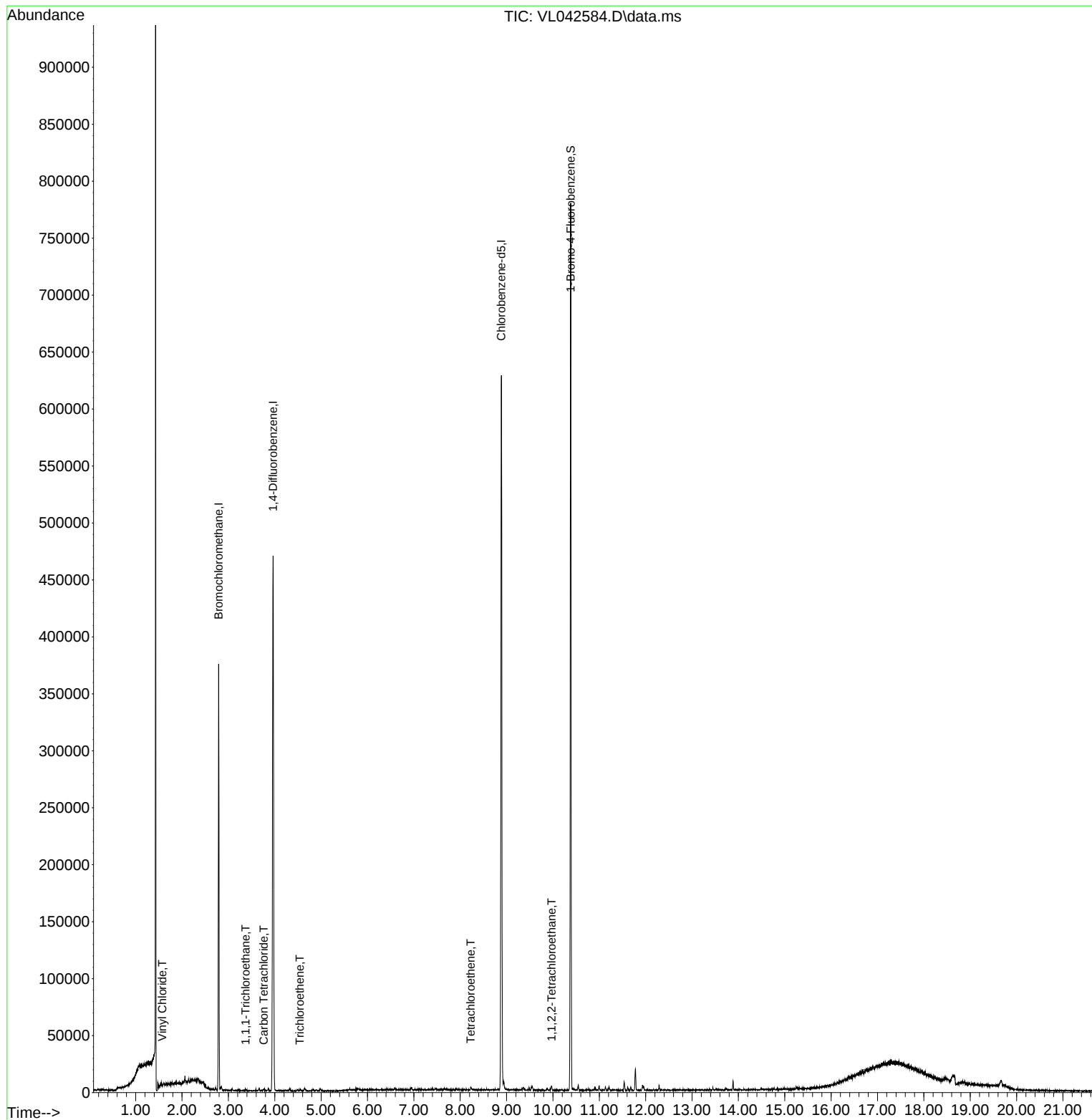
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042584.D
Acq On : 29 May 2025 13:51
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: May 30 01:36:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
Supervised By : Mahesh Dadoda 05/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:21:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	103906	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	301797	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	274912	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 207170 10.053 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	171529	13.432	ppbv	98
3) Chlorodifluoromethane	1.476	51	221334	12.584	ppbv	99
4) Chloromethane	1.534	50	67662	13.380	ppbv	99
5) Vinyl Chloride	1.580	62	63738	12.373	ppbv	98
6) Bromomethane	1.667	94	31141	12.420	ppbv	100
7) Chloroethane	1.706	64	25591	12.785	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	140345	13.189	ppbv	99
9) Propene	1.483	41	93357	13.181	ppbv	97
10) Heptane	4.988	43	263111	13.165	ppbv	100
11) Trichlorofluoromethane	1.877	101	162591	13.684	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	127489	13.664	ppbv	99
13) Ethanol	1.722	45	7390m	9.346	ppbv	
14) Bromoethene	1.784	108	47382	13.501	ppbv	99
15) Acetone	1.835	43	141460	11.302	ppbv	98
16) 1,3-Butadiene	1.609	39	74743	12.607	ppbv	100
17) tert-Butyl alcohol	2.042	59	169533	13.002	ppbv	100
18) 1,1-Dichloroethene	2.036	96	56808	13.085	ppbv	99
19) Isopropyl Alcohol	1.887	45	92408	12.351	ppbv	98
20) Methylene Chloride	2.062	84	48862	11.830	ppbv	97
21) Allyl Chloride	2.097	41	116771	13.223	ppbv	100
22) trans-1,2-Dichloroethene	2.343	96	65132	13.441	ppbv	97
23) Vinyl Acetate	2.466	43	246907	14.594	ppbv	99
24) 1,1-Dichloroethane	2.411	63	129870	13.067	ppbv	99
25) Ethyl Acetate	2.839	43	457327	13.352	ppbv	99
26) Hexane	2.829	57	200386	12.876	ppbv	99
27) Carbon Disulfide	2.152	76	162143	13.571	ppbv	96
28) Methyl tert-Butyl Ether	2.441	73	79625	12.608	ppbv	100
29) Chloroform	2.852	83	269752	13.328	ppbv	98
30) Cyclohexane	3.861	84	170261	13.196	ppbv	99
31) cis-1,2-Dichloroethene	2.722	61	192562	13.526	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	276026	13.591	ppbv	99
34) 2-Butanone	2.560	43	294628	13.689	ppbv	99
35) Carbon Tetrachloride	3.768	117	277042	13.903	ppbv	98
36) Benzene	3.661	78	404641	13.615	ppbv	99
37) 1,2-Dichloroethane	3.221	62	208081	14.088	ppbv	100
38) Trichloroethene	4.551	130	168824	13.263	ppbv	91
39) 1,2-Dichloropropane	4.318	63	149476	13.606	ppbv	98
40) 1,4-Dioxane	4.590	88	65543	14.035	ppbv #	98
41) Tetrahydrofuran	3.056	42	173023	13.734	ppbv	99
42) Bromodichloromethane	4.493	83	298835	14.245	ppbv	96
43) Methyl Methacrylate	4.887	69	161641	14.033	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	676574	13.319	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	189257	14.338	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042585.D
 Acq On : 29 May 2025 14:24
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:21:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 01:15:52 2025

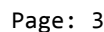
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	236653	14.313	ppbv	94
47) 1,1,2-Trichloroethane	6.590	97	153862	13.524	ppbv	93
48) Dibromochloromethane	7.393	129	258374	14.187	ppbv	100
49) Bromoform	9.490	173	226719	14.427	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	416119	13.882	ppbv	100
51) 2-Hexanone	7.441	43	339220	14.328	ppbv	98
52) Tetrachloroethene	8.231	164	145485	13.098	ppbv	99
53) Toluene	6.939	91	470632	13.702	ppbv	100
54) 1,2-Dibromoethane	7.661	107	232051	13.758	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	191145	13.828	ppbv	99
57) Chlorobenzene	8.930	112	356655	13.361	ppbv	98
58) Ethyl Benzene	9.361	91	637083	13.662	ppbv	99
59) m/p-Xylene	9.561	91	996602m	27.151	ppbv	
60) o-Xylene	9.969	91	490036	13.389	ppbv	98
61) Styrene	9.875	104	245714	14.199	ppbv	100
62) Isopropylbenzene	10.545	105	722166	13.356	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	299633	12.875	ppbv	99
64) n-propylbenzene	10.995	120	195952	13.519	ppbv	97
65) tert-Butylbenzene	11.536	119	634159	12.924	ppbv	99
66) Benzyl Chloride	11.620	91	90617	14.320	ppbv	99
67) sec-Butylbenzene	11.772	105	892638	12.939	ppbv	100
69) p-Isopropyltoluene	11.930	119	763150	13.210	ppbv	100
70) n-Butylbenzene	12.286	91	764173	13.401	ppbv	99
71) 2-Chlorotoluene	10.908	91	552265	13.390	ppbv	100
72) 4-Ethyltoluene	11.131	105	616187	13.504	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	509801	13.498	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	538704	12.854	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	347478	13.203	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	350757	13.363	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	326960	12.800	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	244375	11.563	ppbv	98
79) Naphthalene	13.516	128	563437	14.318	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	306586	17.196	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	299869	13.598	ppbv	99

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

Manual Integrations

Quant Time: May 30 01:21:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 01:15:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL052925

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 05/30/2025
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:03:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	102428	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	301054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	275875	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 203743 9.852 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	115266	9.156	ppbv	97
3) Chlorodifluoromethane	1.476	51	150107	8.658	ppbv	99
4) Chloromethane	1.534	50	45964	9.220	ppbv	99
5) Vinyl Chloride	1.583	62	43925	8.650	ppbv	98
6) Bromomethane	1.670	94	20899	8.455	ppbv	96
7) Chloroethane	1.706	64	16853	8.541	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	97812	9.325	ppbv	98
9) Propene	1.486	41	60663	8.688	ppbv	98
10) Heptane	4.991	43	179146	9.102	ppbv	99
11) Trichlorofluoromethane	1.881	101	111088	9.484	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	90493	9.839	ppbv	98
13) Ethanol	1.722	45	5315m	6.387	ppbv	
14) Bromoethene	1.783	108	31882	9.215	ppbv	97
15) Acetone	1.838	43	93713	7.596	ppbv	99
16) 1,3-Butadiene	1.612	39	51473	8.807	ppbv	98
17) tert-Butyl alcohol	2.042	59	123536	9.611	ppbv	99
18) 1,1-Dichloroethene	2.036	96	40171	9.423	ppbv	94
19) Isopropyl Alcohol	1.887	45	65635	8.899	ppbv	99
20) Methylene Chloride	2.065	84	34380	8.444	ppbv	98
21) Allyl Chloride	2.097	41	80936	9.297	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	46389	9.742	ppbv	99
23) Vinyl Acetate	2.466	43	168496	10.103	ppbv	99
24) 1,1-Dichloroethane	2.411	63	92180	9.408	ppbv	99
25) Ethyl Acetate	2.839	43	309666	9.171	ppbv	99
26) Hexane	2.829	57	136378	8.889	ppbv	99
27) Carbon Disulfide	2.152	76	114756	9.743	ppbv #	92
28) Methyl tert-Butyl Ether	2.444	73	57913	9.302	ppbv	100
29) Chloroform	2.852	83	180696	9.057	ppbv	96
30) Cyclohexane	3.861	84	116986	9.198	ppbv	97
31) cis-1,2-Dichloroethene	2.725	61	130619	9.307	ppbv	97
32) 1,1,1-Trichloroethane	3.373	97	185017	9.077	ppbv	100
34) 2-Butanone	2.560	43	198226	9.233	ppbv	100
35) Carbon Tetrachloride	3.771	117	186286	9.374	ppbv	100
36) Benzene	3.664	78	274314	9.253	ppbv	99
37) 1,2-Dichloroethane	3.224	62	140785	9.555	ppbv	99
38) Trichloroethene	4.557	130	115086	9.133	ppbv	96
39) 1,2-Dichloropropane	4.324	63	98542	8.988	ppbv	99
40) 1,4-Dioxane	4.590	88	45655	9.306	ppbv #	99
41) Tetrahydrofuran	3.059	42	116984	9.309	ppbv	98
42) Bromodichloromethane	4.496	83	202489	9.676	ppbv	92
43) Methyl Methacrylate	4.891	69	108397	9.421	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	461095	9.093	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	125588m	9.538	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 05/30/2025
 Supervised By :Mahesh Dadoda 05/30/2025

Quant Time: May 30 02:03:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	156828	9.505	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	103138	9.088	ppbv	92
48) Dibromochloromethane	7.399	129	170606	9.391	ppbv	99
49) Bromoform	9.493	173	152725	9.742	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	278990	9.369	ppbv	100
51) 2-Hexanone	7.444	43	228036	9.655	ppbv	98
52) Tetrachloroethene	8.231	164	98872	8.925	ppbv	99
53) Toluene	6.943	91	319640	9.329	ppbv	99
54) 1,2-Dibromoethane	7.661	107	157298	9.364	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	127601	9.199	ppbv	97
57) Chlorobenzene	8.930	112	242533	9.054	ppbv	97
58) Ethyl Benzene	9.364	91	432250	9.237	ppbv	97
59) m/p-Xylene	9.558	91	676743m	18.377	ppbv	
60) o-Xylene	9.972	91	333107	9.069	ppbv	100
61) Styrene	9.878	104	163167	9.396	ppbv	100
62) Isopropylbenzene	10.545	105	491107	9.051	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	204322	8.749	ppbv	100
64) n-propylbenzene	10.995	120	131695	9.054	ppbv	100
65) tert-Butylbenzene	11.539	119	431251	8.758	ppbv	98
66) Benzyl Chloride	11.620	91	59801	9.435	ppbv	100
67) sec-Butylbenzene	11.772	105	607905	8.781	ppbv	99
69) p-Isopropyltoluene	11.930	119	512739	8.844	ppbv	100
70) n-Butylbenzene	12.286	91	514931	8.998	ppbv	100
71) 2-Chlorotoluene	10.908	91	377413	9.119	ppbv	99
72) 4-Ethyltoluene	11.131	105	412686	9.012	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	346043	9.131	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	371879	8.842	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	234703	8.886	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	237978	9.034	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	224400	8.754	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	169185	7.977	ppbv	99
79) Naphthalene	13.516	128	383192	9.666	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	194375	10.853	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	198696	8.978	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 T	Dichlorodifluoromethane	1.229	1.125	8.5	99	0.00
3	Chlorodifluoromethane	1.693	1.465	13.5	99	0.00
4	Chloromethane	0.487	0.449	7.8	97	0.00
5 T	Vinyl Chloride	0.496	0.429	13.5	98	0.00
6 T	Bromomethane	0.241	0.204	15.4	94	0.00
7	Chloroethane	0.193	0.165	14.5	94	0.00
8 T	Dichlorotetrafluoroethane	1.024	0.955	6.7	100	0.00
9 T	Propene	0.682	0.592	13.2	91	0.00
10 T	Heptane	1.921	1.749	9.0	98	0.00
11 T	Trichlorofluoromethane	1.144	1.085	5.2	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.898	0.883	1.7	105	0.00
13	Ethanol	0.081	0.052	35.8#	89	0.00
14 T	Bromoethene	0.338	0.311	8.0	98	0.00
15 T	Acetone	1.205	0.915	24.1	98	0.00
16 T	1,3-Butadiene	0.571	0.503	11.9	102	0.00
17	tert-Butyl alcohol	1.255	1.206	3.9	97	0.00
18 T	1,1-Dichloroethene	0.416	0.392	5.8	104	0.00
19 T	Isopropyl Alcohol	0.720	0.641	11.0	97	0.00
20 T	Methylene Chloride	0.398	0.336	15.6	102	0.00
21 T	Allyl Chloride	0.850	0.790	7.1	100	0.00
22 T	trans-1,2-Dichloroethene	0.465	0.453	2.6	106	0.00
23 T	Vinyl Acetate	1.628	1.645	-1.0	112	0.00
24 T	1,1-Dichloroethane	0.957	0.900	6.0	99	0.00
25 T	Ethyl Acetate	3.296	3.023	8.3	99	0.00
26 T	Hexane	1.498	1.331	11.1	98	0.00
27 T	Carbon Disulfide	1.150	1.120	2.6	104	0.00
28 T	Methyl tert-Butyl Ether	0.608	0.565	7.1	102	0.00
29 T	Chloroform	1.948	1.764	9.4	100	0.00
30 T	Cyclohexane	1.242	1.142	8.1	99	0.00
31 T	cis-1,2-Dichloroethene	1.370	1.275	6.9	100	0.00
32 T	1,1,1-Trichloroethane	1.990	1.806	9.2	100	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	98	0.00
34 T	2-Butanone	0.713	0.658	7.7	98	0.00
35 T	Carbon Tetrachloride	0.660	0.619	6.2	100	0.00
36 T	Benzene	0.985	0.911	7.5	99	0.00
37 T	1,2-Dichloroethane	0.489	0.468	4.3	102	0.00
38 T	Trichloroethene	0.419	0.382	8.8	99	0.00
39 T	1,2-Dichloropropane	0.364	0.327	10.2	97	0.00
40 T	1,4-Dioxane	0.163	0.152	6.7	98	0.00
41 T	Tetrahydrofuran	0.417	0.389	6.7	98	0.00
42 T	Bromodichloromethane	0.695	0.673	3.2	100	0.00
43	Methyl Methacrylate	0.382	0.360	5.8	96	0.00
44 T	2,2,4-Trimethylpentane	1.684	1.532	9.0	98	0.00
45 T	t-1,3-Dichloropropene	0.437	0.417	4.6	96	0.00
46 T	cis-1,3-Dichloropropene	0.548	0.521	4.9	97	0.00
47 T	1,1,2-Trichloroethane	0.377	0.343	9.0	98	0.00
48 T	Dibromochloromethane	0.603	0.567	6.0	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.521	0.507	2.7	98	0.00
50 T	4-Methyl-2-Pentanone	0.989	0.927	6.3	95	0.00
51 T	2-Hexanone	0.784	0.757	3.4	95	0.00
52 T	Tetrachloroethene	0.368	0.328	10.9	97	0.00
53 T	Toluene	1.138	1.062	6.7	98	0.00
54 T	1,2-Dibromoethane	0.558	0.522	6.5	99	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	0.503	0.463	8.0	96	0.00
57 T	Chlorobenzene	0.971	0.879	9.5	98	0.00
58 T	Ethyl Benzene	1.696	1.567	7.6	98	0.00
59 T	m/p-Xylene	1.335	1.227	8.1	98	0.02
60 T	o-Xylene	1.331	1.207	9.3	98	0.00
61 T	Styrene	0.629	0.591	6.0	97	0.00
62	Isopropylbenzene	1.967	1.780	9.5	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.847	0.741	12.5	99	0.00
64	n-propylbenzene	0.527	0.477	9.5	98	0.00
65	tert-Butylbenzene	1.785	1.563	12.4	96	0.00
66 T	Benzyl Chloride	0.230	0.217	5.7	87	0.00
67	sec-Butylbenzene	2.509	2.204	12.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.739	1.5	96	0.00
69	p-Isopropyltoluene	2.101	1.859	11.5	96	0.00
70	n-Butylbenzene	2.074	1.867	10.0	98	0.00
71	2-Chlorotoluene	1.500	1.368	8.8	98	0.00
72 T	4-Ethyltoluene	1.660	1.496	9.9	98	0.00
73 T	1,3,5-Trimethylbenzene	1.374	1.254	8.7	98	0.00
74 T	1,2,4-Trimethylbenzene	1.524	1.348	11.5	97	0.00
75 T	1,3-Dichlorobenzene	0.957	0.851	11.1	98	0.00
76 T	1,4-Dichlorobenzene	0.955	0.863	9.6	98	0.00
77 T	1,2-Dichlorobenzene	0.929	0.813	12.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.769	0.613	20.3	98	0.00
79 T	Naphthalene	1.437	1.389	3.3	97	0.00
80 T	Naphthalene,2-methyl-	0.649	0.705	-8.6	95	0.00
81 T	1,2,4-Trichlorobenzene	0.802	0.720	10.2	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 T	Dichlorodifluoromethane	10.000	9.156	8.4	99	0.00
3	Chlorodifluoromethane	10.000	8.658	13.4	99	0.00
4	Chloromethane	10.000	9.220	7.8	97	0.00
5 T	Vinyl Chloride	10.000	8.650	13.5	98	0.00
6 T	Bromomethane	10.000	8.455	15.4	94	0.00
7	Chloroethane	10.000	8.541	14.6	94	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.325	6.8	100	0.00
9 T	Propene	10.000	8.688	13.1	91	0.00
10 T	Heptane	10.000	9.102	9.0	98	0.00
11 T	Trichlorofluoromethane	10.000	9.484	5.2	101	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.839	1.6	105	0.00
13	Ethanol	10.000	6.387	36.1#	89	0.00
14 T	Bromoethene	10.000	9.215	7.9	98	0.00
15 T	Acetone	10.000	7.596	24.0	98	0.00
16 T	1,3-Butadiene	10.000	8.807	11.9	102	0.00
17	tert-Butyl alcohol	10.000	9.611	3.9	97	0.00
18 T	1,1-Dichloroethene	10.000	9.423	5.8	104	0.00
19 T	Isopropyl Alcohol	10.000	8.899	11.0	97	0.00
20 T	Methylene Chloride	10.000	8.444	15.6	102	0.00
21 T	Allyl Chloride	10.000	9.297	7.0	100	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.742	2.6	106	0.00
23 T	Vinyl Acetate	10.000	10.103	-1.0	112	0.00
24 T	1,1-Dichloroethane	10.000	9.408	5.9	99	0.00
25 T	Ethyl Acetate	10.000	9.171	8.3	99	0.00
26 T	Hexane	10.000	8.889	11.1	98	0.00
27 T	Carbon Disulfide	10.000	9.743	2.6	104	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.302	7.0	102	0.00
29 T	Chloroform	10.000	9.057	9.4	100	0.00
30 T	Cyclohexane	10.000	9.198	8.0	99	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.307	6.9	100	0.00
32 T	1,1,1-Trichloroethane	10.000	9.077	9.2	100	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	98	0.00
34 T	2-Butanone	10.000	9.233	7.7	98	0.00
35 T	Carbon Tetrachloride	10.000	9.374	6.3	100	0.00
36 T	Benzene	10.000	9.253	7.5	99	0.00
37 T	1,2-Dichloroethane	10.000	9.555	4.5	102	0.00
38 T	Trichloroethene	10.000	9.133	8.7	99	0.00
39 T	1,2-Dichloropropane	10.000	8.988	10.1	97	0.00
40 T	1,4-Dioxane	10.000	9.306	6.9	98	0.00
41 T	Tetrahydrofuran	10.000	9.309	6.9	98	0.00
42 T	Bromodichloromethane	10.000	9.676	3.2	100	0.00
43	Methyl Methacrylate	10.000	9.421	5.8	96	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.093	9.1	98	0.00
45 T	t-1,3-Dichloropropene	10.000	9.538	4.6	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.505	4.9	97	0.00
47 T	1,1,2-Trichloroethane	10.000	9.088	9.1	98	0.00
48 T	Dibromochloromethane	10.000	9.391	6.1	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
 Data File : VL042586.D
 Acq On : 29 May 2025 14:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL052925

Quant Time: May 30 02:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	9.742	2.6	98	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.369	6.3	95	0.00
51 T	2-Hexanone	10.000	9.655	3.5	95	0.00
52 T	Tetrachloroethene	10.000	8.925	10.7	97	0.00
53 T	Toluene	10.000	9.329	6.7	98	0.00
54 T	1,2-Dibromoethane	10.000	9.364	6.4	99	0.00

55 I	Chlorobenzene-d5	10.000	10.000	0.0	97	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.199	8.0	96	0.00
57 T	Chlorobenzene	10.000	9.054	9.5	98	0.00
58 T	Ethyl Benzene	10.000	9.237	7.6	98	0.00
59 T	m/p-Xylene	20.000	18.377	8.1	98	0.02
60 T	o-Xylene	10.000	9.069	9.3	98	0.00
61 T	Styrene	10.000	9.396	6.0	97	0.00
62	Isopropylbenzene	10.000	9.051	9.5	97	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.749	12.5	99	0.00
64	n-propylbenzene	10.000	9.054	9.5	98	0.00
65	tert-Butylbenzene	10.000	8.758	12.4	96	0.00
66 T	Benzyl Chloride	10.000	9.435	5.6	87	0.00
67	sec-Butylbenzene	10.000	8.781	12.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.852	1.5	96	0.00
69	p-Isopropyltoluene	10.000	8.844	11.6	96	0.00
70	n-Butylbenzene	10.000	8.998	10.0	98	0.00
71	2-Chlorotoluene	10.000	9.119	8.8	98	0.00
72 T	4-Ethyltoluene	10.000	9.012	9.9	98	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.131	8.7	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.842	11.6	97	0.00
75 T	1,3-Dichlorobenzene	10.000	8.886	11.1	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.034	9.7	98	0.00
77 T	1,2-Dichlorobenzene	10.000	8.754	12.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.977	20.2	98	0.00
79 T	Naphthalene	10.000	9.666	3.3	97	0.00
80 T	Naphthalene,2-methyl-	10.000	10.853	-8.5	95	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.978	10.2	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q2368 SAS No.: Q2368 SDG No.: Q2368

Instrument ID: MSVOA_L Calibration Date/Time: 06/19/2025 08:56

Lab File ID: VL042647.D Init. Calib. Date(s): 05/29/2025 05/29/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:09 14:24

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.496	0.448		-9.68	30
Heptane	1.921	1.822		-5.15	30
1,1-Dichloroethene	0.416	0.435		4.57	30
Cyclohexane	1.242	1.116		-10.15	30
cis-1,2-Dichloroethene	1.370	1.350		-1.46	30
1,1,1-Trichloroethane	1.990	2.027		1.86	30
2,2,4-Trimethylpentane	1.684	1.861		10.51	30
Benzene	0.985	1.082		9.85	30
Trichloroethene	0.419	0.422		0.72	30
Toluene	1.138	1.178		3.52	30
Tetrachloroethene	0.368	0.367		-0.27	30
Ethyl Benzene	1.696	1.878		10.73	30
m/p-Xylene	1.335	1.580		18.35	30
o-Xylene	1.331	1.565		17.58	30
1,3,5-Trimethylbenzene	1.374	1.596		16.16	30
1,2,4-Trimethylbenzene	1.524	1.789		17.39	30
Naphthalene	1.437	1.673		16.42	30
1-Bromo-4-Fluorobenzene	0.750	0.814		8.53	30
Hexane	1.498	1.411		-5.81	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 06/23/2025
 Supervised By : Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:33:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	105774	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	271342	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.898	117	241435	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 196559 10.861 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 108.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	136240	10.480	ppbv	97
3) Chlorodifluoromethane	1.479	51	173781	9.706	ppbv	97
4) Chloromethane	1.538	50	51600	10.023	ppbv	98
5) Vinyl Chloride	1.586	62	47359	9.031	ppbv	98
6) Bromomethane	1.674	94	23626	9.256	ppbv	92
7) Chloroethane	1.709	64	19363	9.503	ppbv	94
8) Dichlorotetrafluoroethane	1.560	85	110759	10.225	ppbv	99
9) Propene	1.489	41	61227	8.492	ppbv	93
10) Heptane	4.998	43	192684	9.481	ppbv	100
11) Trichlorofluoromethane	1.884	101	138922	11.485	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	107085	11.274	ppbv	97
13) Ethanol	1.729	45	5756	6.699	ppbv	94
14) Bromoethene	1.787	108	36607	10.246	ppbv	98
15) Acetone	1.842	43	111893	8.782	ppbv	97
16) 1,3-Butadiene	1.615	39	55514	9.198	ppbv	95
17) tert-Butyl alcohol	2.046	59	127048	9.572	ppbv	99
18) 1,1-Dichloroethene	2.043	96	46032	10.456	ppbv	88
19) Isopropyl Alcohol	1.894	45	71320	9.364	ppbv	97
20) Methylene Chloride	2.068	84	40012	9.516	ppbv	97
21) Allyl Chloride	2.104	41	88888	9.888	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	51990	10.572	ppbv	97
23) Vinyl Acetate	2.470	43	216348	12.562	ppbv #	97
24) 1,1-Dichloroethane	2.418	63	104587	10.337	ppbv	98
25) Ethyl Acetate	2.845	43	344364	9.877	ppbv	100
26) Hexane	2.836	57	149241	9.420	ppbv	97
27) Carbon Disulfide	2.159	76	130069	10.694	ppbv	93
28) Methyl tert-Butyl Ether	2.450	73	67907	10.562	ppbv	97
29) Chloroform	2.858	83	224802	10.911	ppbv	94
30) Cyclohexane	3.871	84	118051	8.988	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	142746	9.850	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	214355	10.183	ppbv	98
34) 2-Butanone	2.567	43	223326	11.541	ppbv	99
35) Carbon Tetrachloride	3.777	117	215300	12.020	ppbv	99
36) Benzene	3.671	78	293622	10.989	ppbv	99
37) 1,2-Dichloroethane	3.230	62	166507	12.538	ppbv	98
38) Trichloroethene	4.567	130	114475	10.079	ppbv	87
39) 1,2-Dichloropropane	4.334	63	109999	11.132	ppbv	97
40) 1,4-Dioxane	4.600	88	46358	10.484	ppbv #	87
41) Tetrahydrofuran	3.065	42	119620	10.561	ppbv	98
42) Bromodichloromethane	4.509	83	233466	12.378	ppbv	100
43) Methyl Methacrylate	4.901	69	110041	10.611	ppbv	98
44) 2,2,4-Trimethylpentane	4.661	57	504893	11.047	ppbv	98
45) t-1,3-Dichloropropene	6.438	75	125932	10.611	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:33:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	160436	10.789	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	115320	11.274	ppbv	95
48) Dibromochloromethane	7.409	129	187063	11.424	ppbv	100
49) Bromoform	9.500	173	168088	11.897	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	298895	11.136	ppbv	98
51) 2-Hexanone	7.454	43	237889	11.175	ppbv #	97
52) Tetrachloroethene	8.244	164	99591	9.974	ppbv	95
53) Toluene	6.956	91	319753	10.354	ppbv	99
54) 1,2-Dibromoethane	7.671	107	170816	11.282	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.943	131	145178	11.959	ppbv	97
57) Chlorobenzene	8.940	112	258681	11.034	ppbv	99
58) Ethyl Benzene	9.370	91	453357	11.070	ppbv	95
59) m/p-Xylene	9.568	91	763052m	23.676	ppbv	
60) o-Xylene	9.979	91	377860	11.756	ppbv	97
61) Styrene	9.888	104	158381	10.422	ppbv	97
62) Isopropylbenzene	10.552	105	548530	11.551	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	247429	12.106	ppbv	99
64) n-propylbenzene	11.002	120	145207	11.407	ppbv	94
65) tert-Butylbenzene	11.542	119	482745	11.202	ppbv	97
66) Benzyl Chloride	11.630	91	53662	9.674	ppbv	97
67) sec-Butylbenzene	11.778	105	690565	11.398	ppbv	98
69) p-Isopropyltoluene	11.937	119	569182	11.219	ppbv	98
70) n-Butylbenzene	12.293	91	589246	11.766	ppbv	98
71) 2-Chlorotoluene	10.914	91	419351	11.577	ppbv	96
72) 4-Ethyltoluene	11.138	105	465148	11.607	ppbv	98
73) 1,3,5-Trimethylbenzene	11.215	105	385257	11.615	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	431897	11.734	ppbv	91
75) 1,3-Dichlorobenzene	11.620	146	266086	11.512	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	266486	11.560	ppbv	98
77) 1,2-Dichlorobenzene	11.960	146	256200	11.421	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	183922	9.909	ppbv	99
79) Naphthalene	13.523	128	403844	11.640	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	190371	12.145	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	208409	10.761	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jun 20 01:33:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	1.229	1.288	-4.8	117	0.00
3	Chlorodifluoromethane	1.693	1.643	3.0	115	0.00
4	Chloromethane	0.487	0.488	-0.2	109	0.00
5 T	Vinyl Chloride	0.496	0.448	9.7	105	0.00
6 T	Bromomethane	0.241	0.223	7.5	106	0.00
7	Chloroethane	0.193	0.183	5.2	108	0.00
8 T	Dichlorotetrafluoroethane	1.024	1.047	-2.2	114	0.00
9 T	Propene	0.682	0.579	15.1	92	0.00
10 T	Heptane	1.921	1.822	5.2	106	0.02
11 T	Trichlorofluoromethane	1.144	1.313	-14.8	126	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.898	1.012	-12.7	124	0.00
13	Ethanol	0.081	0.054	33.3#	96	0.00
14 T	Bromoethene	0.338	0.346	-2.4	112	0.00
15 T	Acetone	1.205	1.058	12.2	117	0.00
16 T	1,3-Butadiene	0.571	0.525	8.1	110	0.00
17	tert-Butyl alcohol	1.255	1.201	4.3	100	0.00
18 T	1,1-Dichloroethene	0.416	0.435	-4.6	119	0.00
19 T	Isopropyl Alcohol	0.720	0.674	6.4	105	0.00
20 T	Methylene Chloride	0.398	0.378	5.0	119	0.00
21 T	Allyl Chloride	0.850	0.840	1.2	110	0.00
22 T	trans-1,2-Dichloroethene	0.465	0.492	-5.8	118	0.00
23 T	Vinyl Acetate	1.628	2.045	-25.6	144	0.00
24 T	1,1-Dichloroethane	0.957	0.989	-3.3	113	0.00
25 T	Ethyl Acetate	3.296	3.256	1.2	110	0.00
26 T	Hexane	1.498	1.411	5.8	108	0.00
27 T	Carbon Disulfide	1.150	1.230	-7.0	118	0.00
28 T	Methyl tert-Butyl Ether	0.608	0.642	-5.6	120	0.00
29 T	Chloroform	1.948	2.125	-9.1	125	0.00
30 T	Cyclohexane	1.242	1.116	10.1	100	0.01
31 T	cis-1,2-Dichloroethene	1.370	1.350	1.5	109	0.00
32 T	1,1,1-Trichloroethane	1.990	2.027	-1.9	116	0.01
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	88	0.01
34 T	2-Butanone	0.713	0.823	-15.4	111	0.00
35 T	Carbon Tetrachloride	0.660	0.793	-20.2	116	0.00
36 T	Benzene	0.985	1.082	-9.8	106	0.00
37 T	1,2-Dichloroethane	0.489	0.614	-25.6	121	0.00
38 T	Trichloroethene	0.419	0.422	-0.7	99	0.02
39 T	1,2-Dichloropropane	0.364	0.405	-11.3	109	0.02
40 T	1,4-Dioxane	0.163	0.171	-4.9	99	0.00
41 T	Tetrahydrofuran	0.417	0.441	-5.8	100	0.00
42 T	Bromodichloromethane	0.695	0.860	-23.7	116	0.01
43	Methyl Methacrylate	0.382	0.406	-6.3	98	0.02
44 T	2,2,4-Trimethylpentane	1.684	1.861	-10.5	108	0.01
45 T	t-1,3-Dichloropropene	0.437	0.464	-6.2	96	0.02
46 T	cis-1,3-Dichloropropene	0.548	0.591	-7.8	99	0.02
47 T	1,1,2-Trichloroethane	0.377	0.425	-12.7	109	0.02
48 T	Dibromochloromethane	0.603	0.689	-14.3	107	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jun 20 01:33:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.521	0.619	-18.8	108	0.00
50 T	4-Methyl-2-Pentanone	0.989	1.102	-11.4	101	0.02
51 T	2-Hexanone	0.784	0.877	-11.9	99	0.00
52 T	Tetrachloroethene	0.368	0.367	0.3	97	0.01
53 T	Toluene	1.138	1.178	-3.5	99	0.01
54 T	1,2-Dibromoethane	0.558	0.630	-12.9	108	0.01
55 I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
56	1,1,1,2-Tetrachloroethane	0.503	0.601	-19.5	109	0.01
57 T	Chlorobenzene	0.971	1.071	-10.3	104	0.01
58 T	Ethyl Benzene	1.696	1.878	-10.7	103	0.00
59 T	m/p-Xylene	1.335	1.580	-18.4	110	0.03
60 T	o-Xylene	1.331	1.565	-17.6	111	0.00
61 T	Styrene	0.629	0.656	-4.3	94	0.01
62	Isopropylbenzene	1.967	2.272	-15.5	108	0.00
63 T	1,1,2,2-Tetrachloroethane	0.847	1.025	-21.0	120	0.00
64	n-propylbenzene	0.527	0.601	-14.0	108	0.00
65	tert-Butylbenzene	1.785	1.999	-12.0	107	0.00
66 T	Benzyl Chloride	0.230	0.222	3.5	78	0.00
67	sec-Butylbenzene	2.509	2.860	-14.0	110	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.814	-8.5	92	0.00
69	p-Isopropyltoluene	2.101	2.357	-12.2	107	0.00
70	n-Butylbenzene	2.074	2.441	-17.7	112	0.00
71	2-Chlorotoluene	1.500	1.737	-15.8	109	0.00
72 T	4-Ethyltoluene	1.660	1.927	-16.1	110	0.00
73 T	1,3,5-Trimethylbenzene	1.374	1.596	-16.2	109	0.00
74 T	1,2,4-Trimethylbenzene	1.524	1.789	-17.4	113	0.00
75 T	1,3-Dichlorobenzene	0.957	1.102	-15.2	111	0.00
76 T	1,4-Dichlorobenzene	0.955	1.104	-15.6	110	0.00
77 T	1,2-Dichlorobenzene	0.929	1.061	-14.2	112	0.00
78 T	Hexachloro-1,3-Butadiene	0.769	0.762	0.9	106	0.00
79 T	Naphthalene	1.437	1.673	-16.4	102	0.00
80 T	Naphthalene,2-methyl-	0.649	0.788	-21.4	93	0.00
81 T	1,2,4-Trichlorobenzene	0.802	0.863	-7.6	99	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jun 20 01:33:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	10.000	10.480	-4.8	117	0.00
3	Chlorodifluoromethane	10.000	9.706	2.9	115	0.00
4	Chloromethane	10.000	10.023	-0.2	109	0.00
5 T	Vinyl Chloride	10.000	9.031	9.7	105	0.00
6 T	Bromomethane	10.000	9.256	7.4	106	0.00
7	Chloroethane	10.000	9.503	5.0	108	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.225	-2.2	114	0.00
9 T	Propene	10.000	8.492	15.1	92	0.00
10 T	Heptane	10.000	9.481	5.2	106	0.02
11 T	Trichlorofluoromethane	10.000	11.485	-14.8	126	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	11.274	-12.7	124	0.00
13	Ethanol	10.000	6.699	33.0#	96	0.00
14 T	Bromoethene	10.000	10.246	-2.5	112	0.00
15 T	Acetone	10.000	8.782	12.2	117	0.00
16 T	1,3-Butadiene	10.000	9.198	8.0	110	0.00
17	tert-Butyl alcohol	10.000	9.572	4.3	100	0.00
18 T	1,1-Dichloroethene	10.000	10.456	-4.6	119	0.00
19 T	Isopropyl Alcohol	10.000	9.364	6.4	105	0.00
20 T	Methylene Chloride	10.000	9.516	4.8	119	0.00
21 T	Allyl Chloride	10.000	9.888	1.1	110	0.00
22 T	trans-1,2-Dichloroethene	10.000	10.572	-5.7	118	0.00
23 T	Vinyl Acetate	10.000	12.562	-25.6	144	0.00
24 T	1,1-Dichloroethane	10.000	10.337	-3.4	113	0.00
25 T	Ethyl Acetate	10.000	9.877	1.2	110	0.00
26 T	Hexane	10.000	9.420	5.8	108	0.00
27 T	Carbon Disulfide	10.000	10.694	-6.9	118	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.562	-5.6	120	0.00
29 T	Chloroform	10.000	10.911	-9.1	125	0.00
30 T	Cyclohexane	10.000	8.988	10.1	100	0.01
31 T	cis-1,2-Dichloroethene	10.000	9.850	1.5	109	0.00
32 T	1,1,1-Trichloroethane	10.000	10.183	-1.8	116	0.01
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	88	0.01
34 T	2-Butanone	10.000	11.541	-15.4	111	0.00
35 T	Carbon Tetrachloride	10.000	12.020	-20.2	116	0.00
36 T	Benzene	10.000	10.989	-9.9	106	0.00
37 T	1,2-Dichloroethane	10.000	12.538	-25.4	121	0.00
38 T	Trichloroethene	10.000	10.079	-0.8	99	0.02
39 T	1,2-Dichloropropane	10.000	11.132	-11.3	109	0.02
40 T	1,4-Dioxane	10.000	10.484	-4.8	99	0.00
41 T	Tetrahydrofuran	10.000	10.561	-5.6	100	0.00
42 T	Bromodichloromethane	10.000	12.378	-23.8	116	0.01
43	Methyl Methacrylate	10.000	10.611	-6.1	98	0.02
44 T	2,2,4-Trimethylpentane	10.000	11.047	-10.5	108	0.01
45 T	t-1,3-Dichloropropene	10.000	10.611	-6.1	96	0.02
46 T	cis-1,3-Dichloropropene	10.000	10.789	-7.9	99	0.02
47 T	1,1,2-Trichloroethane	10.000	11.274	-12.7	109	0.02
48 T	Dibromochloromethane	10.000	11.424	-14.2	107	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042647.D
 Acq On : 19 Jun 2025 08:56
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jun 20 01:33:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 30 02:01:56 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	11.897	-19.0	108	0.00
50 T	4-Methyl-2-Pentanone	10.000	11.136	-11.4	101	0.02
51 T	2-Hexanone	10.000	11.175	-11.8	99	0.00
52 T	Tetrachloroethene	10.000	9.974	0.3	97	0.01
53 T	Toluene	10.000	10.354	-3.5	99	0.01
54 T	1,2-Dibromoethane	10.000	11.282	-12.8	108	0.01
55 I	Chlorobenzene-d5	10.000	10.000	0.0	84	0.00
56	1,1,1,2-Tetrachloroethane	10.000	11.959	-19.6	109	0.01
57 T	Chlorobenzene	10.000	11.034	-10.3	104	0.01
58 T	Ethyl Benzene	10.000	11.070	-10.7	103	0.00
59 T	m/p-Xylene	20.000	23.676	-18.4	110	0.03
60 T	o-Xylene	10.000	11.756	-17.6	111	0.00
61 T	Styrene	10.000	10.422	-4.2	94	0.01
62	Isopropylbenzene	10.000	11.551	-15.5	108	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	12.106	-21.1	120	0.00
64	n-propylbenzene	10.000	11.407	-14.1	108	0.00
65	tert-Butylbenzene	10.000	11.202	-12.0	107	0.00
66 T	Benzyl Chloride	10.000	9.674	3.3	78	0.00
67	sec-Butylbenzene	10.000	11.398	-14.0	110	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.861	-8.6	92	0.00
69	p-Isopropyltoluene	10.000	11.219	-12.2	107	0.00
70	n-Butylbenzene	10.000	11.766	-17.7	112	0.00
71	2-Chlorotoluene	10.000	11.577	-15.8	109	0.00
72 T	4-Ethyltoluene	10.000	11.607	-16.1	110	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.615	-16.2	109	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.734	-17.3	113	0.00
75 T	1,3-Dichlorobenzene	10.000	11.512	-15.1	111	0.00
76 T	1,4-Dichlorobenzene	10.000	11.560	-15.6	110	0.00
77 T	1,2-Dichlorobenzene	10.000	11.421	-14.2	112	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.909	0.9	106	0.00
79 T	Naphthalene	10.000	11.640	-16.4	102	0.00
80 T	Naphthalene,2-methyl-	10.000	12.145	-21.4	93	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.761	-7.6	99	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



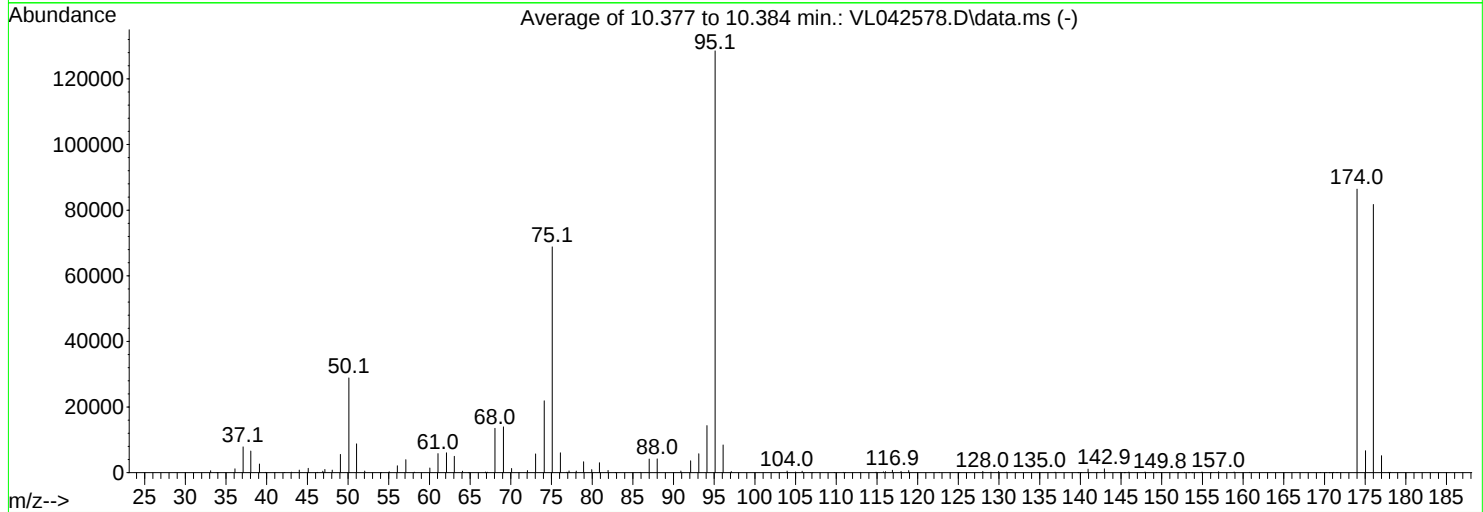
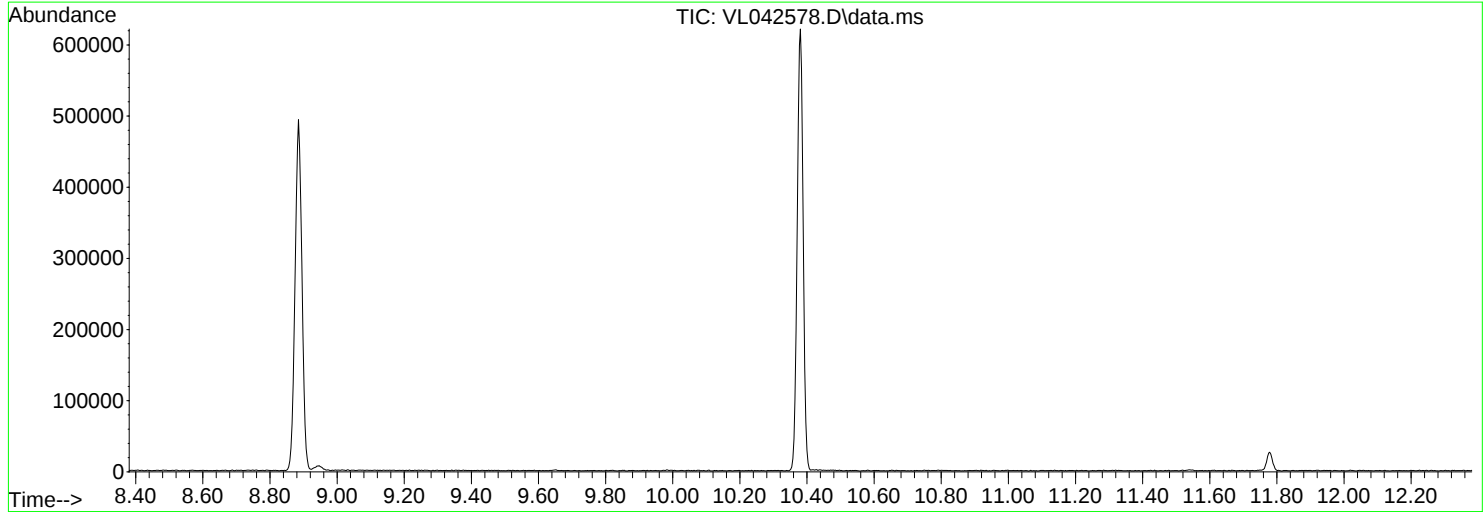
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052925\
Data File : VL042578.D
Acq On : 29 May 2025 08:05
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed May 21 00:21:29 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.4	28861	PASS
75	95	30	66	53.5	68792	PASS
95	95	100	100	100.0	128557	PASS
96	95	5	9	6.6	8426	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	67.2	86397	PASS
175	174	4	9	7.7	6664	PASS
176	174	93	101	94.6	81744	PASS
177	176	5	9	6.3	5154	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	604	45.10	1310	56.05	2107	68.05	1349
33.90	20	46.20	82	57.10	3938	69.10	1396
36.10	1179	46.90	454	58.15	159	70.10	125
37.10	7865	47.15	999	60.05	1394	71.00	7
38.05	6599	48.05	784	61.05	5793	72.05	616
39.10	2657	49.05	5570	62.10	6048	73.05	5702
39.90	81	50.10	28861	63.05	4979	74.10	21883
41.00	66	51.05	8796	64.05	430	75.10	68792
42.20	45	52.05	485	64.80	28	76.10	6072
43.05	164	54.00	17	66.90	188	76.90	143
44.00	762	55.05	314	67.10	147	77.15	541

Average of 10.377 to 10.384 min.: VL042578.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.05	512	93.10	5769	110.85	127	128.00	371
78.95	3322	94.10	14351	111.10	39	129.00	147
79.95	936	95.10	128557	112.95	118	129.95	325
80.90	3038	96.10	8426	114.90	160	130.95	149
81.95	666	97.10	324	115.80	234	132.10	57
82.85	69	103.95	507	116.05	275	134.80	45
85.90	102	105.00	185	116.90	719	135.00	127
87.00	4138	105.80	434	117.95	400	136.90	144
88.00	4195	106.80	76	118.90	638	139.70	25
90.90	504	107.00	24	122.65	40	140.10	50
92.10	3594	109.75	56	125.00	20	140.95	1056

Average of 10.377 to 10.384 min.: VL042578.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
142.05	103	152.80	86	170.90	53		
142.95	1152	153.30	25	171.10	116		
144.90	93	153.70	29	171.50	43		
145.10	33	154.95	214	171.65	64		
145.40	18	156.00	20	172.00	56		
145.95	182	157.00	303	174.00	86397		
147.00	65	158.90	220	175.05	6664		
147.95	210	160.80	92	176.00	81744		
149.35	45	169.50	60	177.00	5154		
149.80	42	170.20	51	177.90	98		
152.00	19	170.60	17	178.10	81		

Instrument :

MSVOA_L

ClientSampleId :

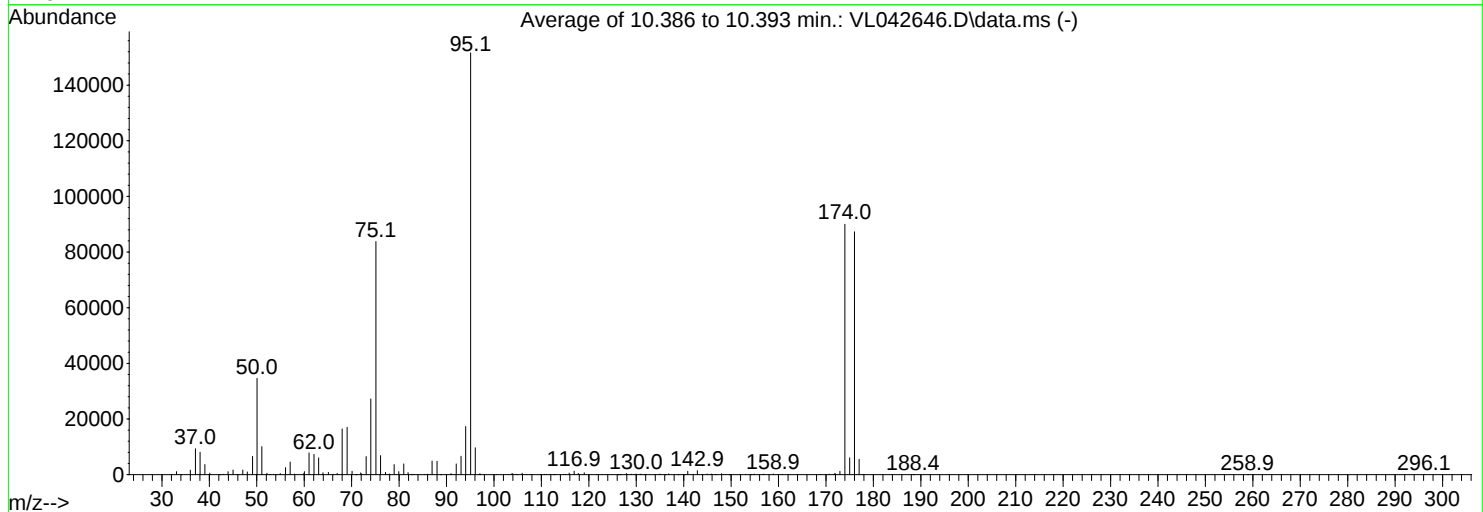
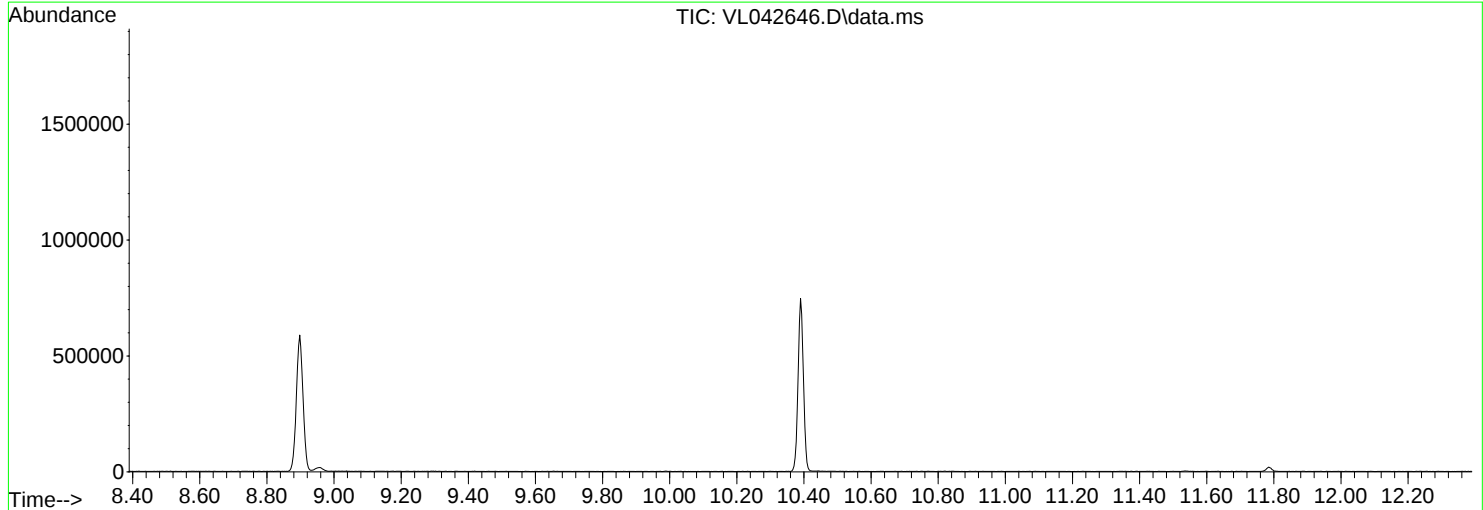
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042646.D
Acq On : 19 Jun 2025 08:10
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri May 30 02:01:56 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3159

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.8	34621	PASS
75	95	30	66	55.3	83795	PASS
95	95	100	100	100.0	151616	PASS
96	95	5	9	6.4	9668	PASS
173	174	0.00	2	1.3	1201	PASS
174	95	50	120	59.4	90011	PASS
175	174	4	9	6.7	6045	PASS
176	174	93	101	97.0	87299	PASS
177	176	5	9	6.3	5534	PASS

Average of 10.386 to 10.393 min.: VL042646.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1122	45.85	98	54.00	17	65.10	80
34.00	29	46.20	72	54.95	378	66.10	11
36.00	1599	47.05	1666	56.05	2524	66.95	48
37.05	9321	48.00	962	57.05	4546	68.00	1645
38.05	8036	49.10	6571	57.95	233	69.05	17042
39.05	3601	50.05	34621	59.90	418	70.10	1196
40.10	553	51.05	10079	60.05	1094	70.85	25
42.20	30	52.15	530	61.00	7816	71.90	611
42.95	104	52.70	25	62.05	7313	72.10	311
43.95	1103	53.00	82	63.05	6070	73.05	6496
45.00	1671	53.55	46	63.95	709	74.05	27232

Average of 10.386 to 10.393 min.: VL042646.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
75.10	83795	85.45	121	96.05	9668	109.80	18
76.10	6864	85.95	199	97.00	279	110.65	137
77.15	818	86.95	4911	97.20	155	111.15	70
77.70	112	88.00	4830	100.50	52	111.80	56
78.00	243	88.70	31	103.80	345	111.95	106
78.95	3634	90.85	249	103.95	335	112.60	28
79.95	1101	91.10	297	104.70	119	112.95	80
81.00	3837	92.05	3843	104.90	81	114.65	60
81.90	769	93.05	6644	105.95	517	115.05	81
82.60	22	94.05	17330	106.90	66	115.85	598
83.10	102	95.10	151616	107.70	63	116.90	1262

Average of 10.386 to 10.393 min.: VL042646.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.80	448	130.00	228	142.00	117	150.10	41
119.05	699	130.85	175	142.90	1460	151.90	82
121.70	49	131.05	128	143.85	122	153.10	112
122.85	57	131.70	17	144.95	213	154.20	18
123.80	127	133.90	58	145.60	67	154.80	136
126.20	30	135.00	249	145.90	259	155.00	195
126.60	22	136.10	21	146.70	23	155.80	17
127.90	416	136.85	280	148.00	327	156.70	106
128.10	102	138.80	18	148.75	94	156.90	178
128.95	198	140.10	28	149.60	25	158.90	229
129.70	148	140.85	1236	149.80	134	160.85	120

Average of 10.386 to 10.393 min.: VL042646.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
168.80	63	177.95	80				
170.70	185	188.40	19				
171.50	58	258.90	18				
171.80	321	296.15	48				
172.00	366						
172.95	1201						
174.00	90011						
175.00	6045						
176.00	87299						
177.00	5534						
177.80	79						

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	1426 Ogden Ave, Bronx NY	Date Received:	
Client Sample ID:	VL0619ABL01	SDG No.:	Q2368
Lab Sample ID:	VL0619ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042648.D	1		06/19/25 09:42	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.080	0.26	U	0.26	1.60	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.16	0.60	U	0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
110-54-3	Hexane	0.16	0.56	U	0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	105000		2.8			
540-36-3	1,4-Difluorobenzene	274000		3.978			
3114-55-4	Chlorobenzene-d5	234000		8.901			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042648.D
Acq On : 19 Jun 2025 09:42
Operator : SY/MD
Sample : VL0619ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABL01

Quant Time: Jun 20 01:34:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	105000	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.978	114	273905	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.901	117	233634	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.393	95	178374	10.185	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%

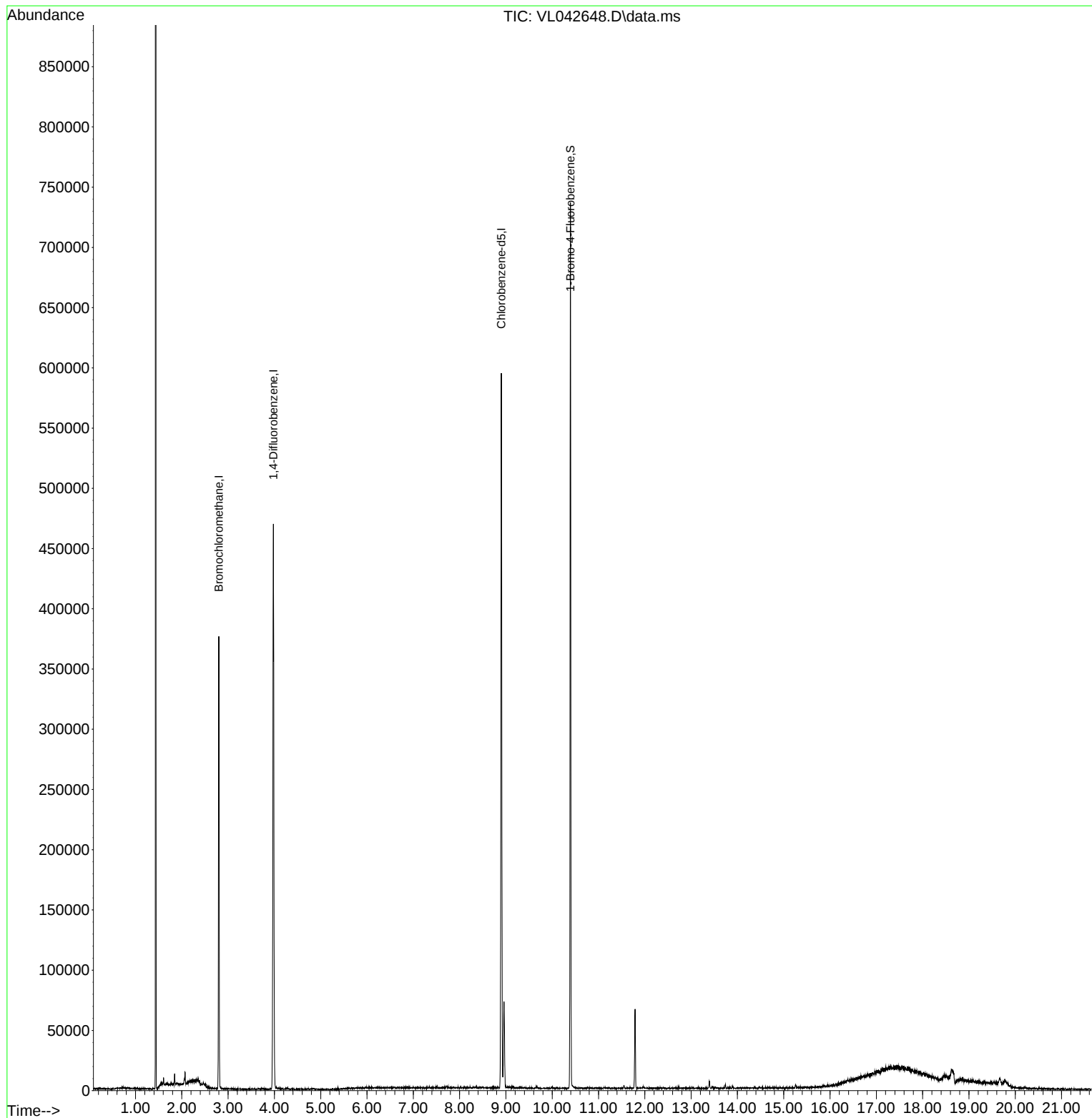
Target Compounds	Qvalue

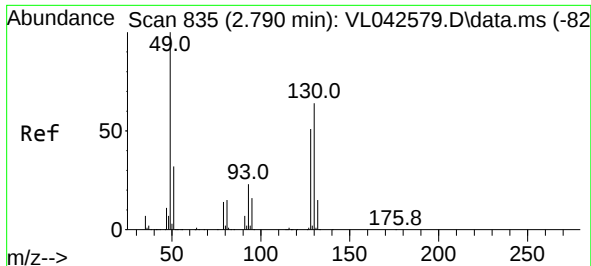
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
Data File : VL042648.D
Acq On : 19 Jun 2025 09:42
Operator : SY/MD
Sample : VL0619ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0619ABL01

Quant Time: Jun 20 01:34:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration

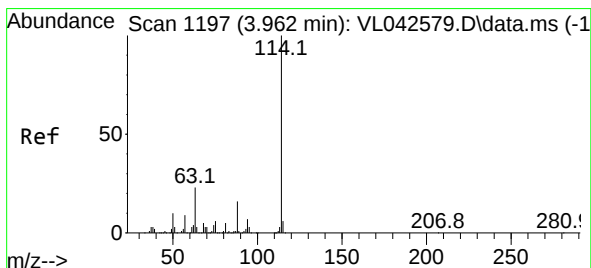
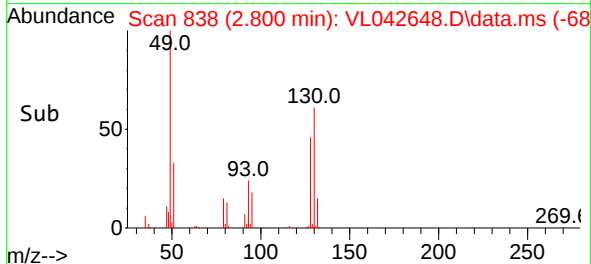
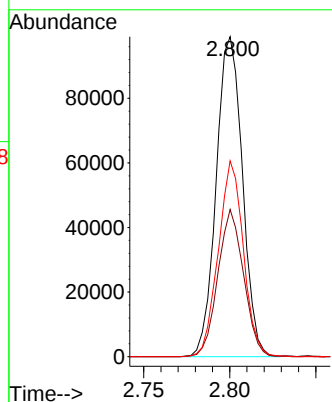
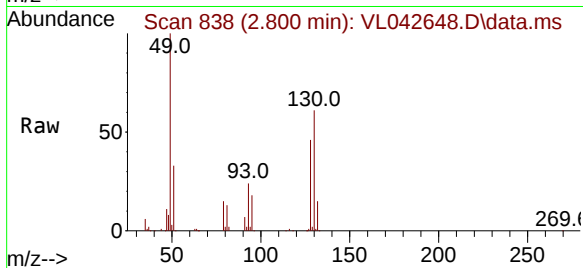




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.800 min Scan# 81
 Delta R.T. 0.010 min
 Lab File: VL042648.D
 Acq: 19 Jun 2025 09:42

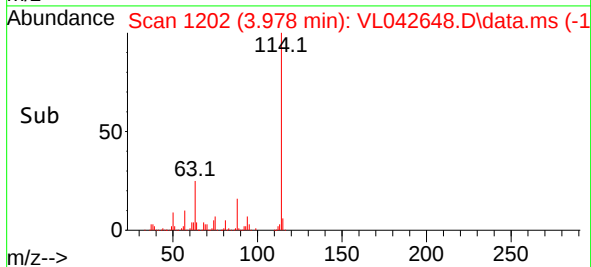
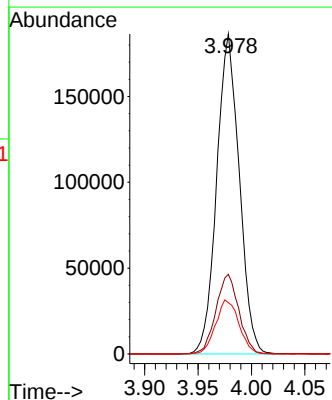
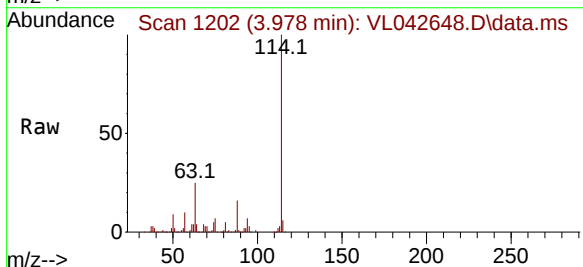
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABL01

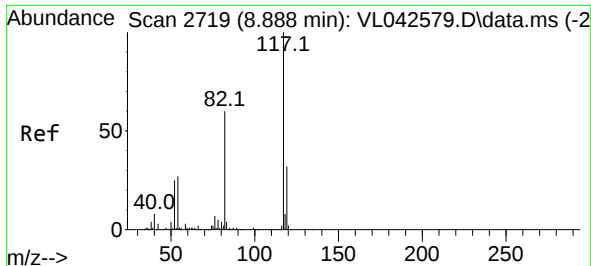
Tgt Ion: 49 Resp: 105000
 Ion Ratio Lower Upper
 49 100
 128 45.2 24.2 72.6
 130 58.6 30.4 91.2



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.978 min Scan# 1202
 Delta R.T. 0.016 min
 Lab File: VL042648.D
 Acq: 19 Jun 2025 09:42

Tgt Ion: 114 Resp: 273905
 Ion Ratio Lower Upper
 114 100
 63 25.4 19.0 28.6
 88 17.4 13.6 20.4

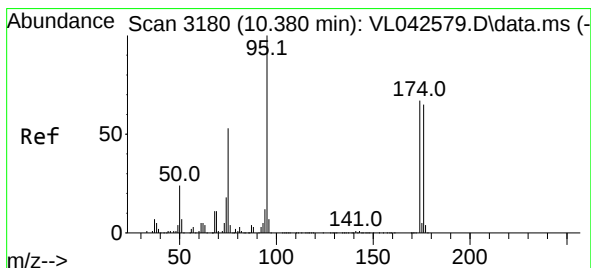
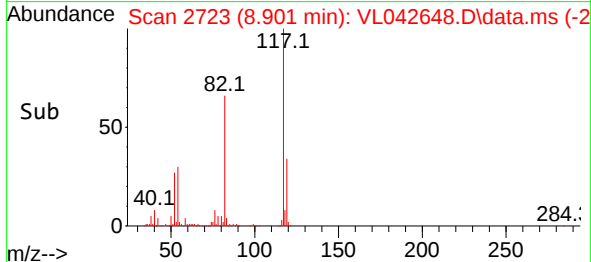
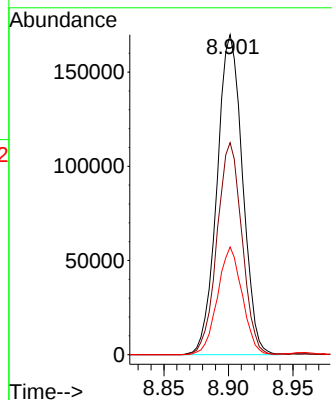
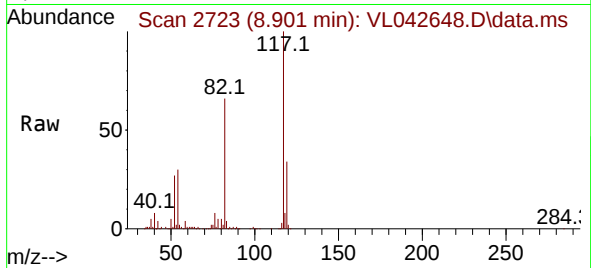




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042648.D
Acq: 19 Jun 2025 09:42

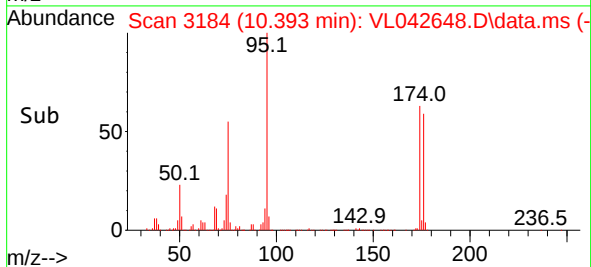
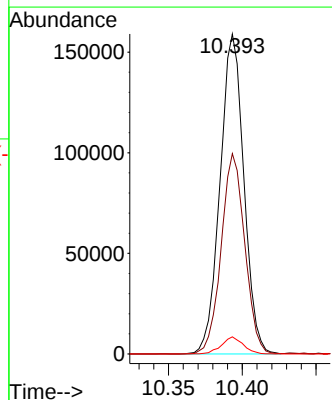
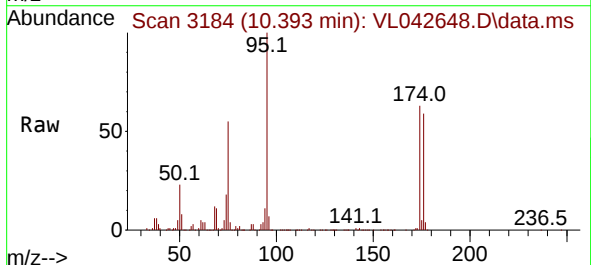
Instrument :
MSVOA_L
ClientSampleId :
VL0619ABL01

Tgt Ion:117 Resp: 233634
Ion Ratio Lower Upper
117 100
82 64.8 51.2 76.8
119 32.5 26.3 39.5



#68
1-Bromo-4-Fluorobenzene
Concen: 10.185 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.013 min
Lab File: VL042648.D
Acq: 19 Jun 2025 09:42

Tgt Ion: 95 Resp: 178374
Ion Ratio Lower Upper
95 100
174 62.1 53.1 79.7
175 4.9 4.2 6.2



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	1426 Ogden Ave, Bronx NY	Date Received:	
Client Sample ID:	VL0619ABS01	SDG No.:	Q2368
Lab Sample ID:	VL0619ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042649.D	1		06/19/25 10:26	VL061925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	9.30	23.8		0.080	0.080	ug/m3
142-82-5	Heptane	9.50	38.9		0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	10.9	43.2		0.59	1.98	ug/m3
110-82-7	Cyclohexane	9.10	31.3		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.70	38.5		0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	10.0	54.6		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.1	51.9		0.65	2.34	ug/m3
71-43-2	Benzene	10.8	34.5		0.26	1.60	ug/m3
79-01-6	Trichloroethene	10.2	54.8		0.11	0.16	ug/m3
108-88-3	Toluene	10.5	39.6		0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	9.80	66.5		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	11.1	48.2		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	23.2	101		1.78	4.34	ug/m3
95-47-6	o-Xylene	11.7	50.8		0.91	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.5	56.5		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	11.6	57.0		0.88	2.46	ug/m3
91-20-3	Naphthalene	11.8	61.9		0.050	0.52	ug/m3
110-54-3	Hexane	9.40	33.1		0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	108000		2.8			
540-36-3	1,4-Difluorobenzene	277000		3.975			
3114-55-4	Chlorobenzene-d5	244000		8.901			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042649.D
 Acq On : 19 Jun 2025 10:26
 Operator : SY/MD
 Sample : VL0619ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

Quant Time: Jun 20 01:35:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri May 30 02:01:56 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 06/23/2025
 Supervised By : Mahesh Dadoda 06/23/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	107593	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	277113	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.901	117	244062	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 194374 10.624 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	142090	10.745	ppbv	99
3) Chlorodifluoromethane	1.479	51	178086	9.778	ppbv	95
4) Chloromethane	1.538	50	52647	10.054	ppbv	97
5) Vinyl Chloride	1.586	62	49813	9.338	ppbv	93
6) Bromomethane	1.674	94	24497	9.435	ppbv	93
7) Chloroethane	1.712	64	20025	9.661	ppbv	97
8) Dichlorotetrafluoroethane	1.560	85	115548	10.487	ppbv	98
9) Propene	1.489	41	67588	9.215	ppbv	99
10) Heptane	5.004	43	196137	9.487	ppbv	99
11) Trichlorofluoromethane	1.884	101	148395	12.061	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	114662	11.868	ppbv	96
13) Ethanol	1.729	45	5283	6.044	ppbv	87
14) Bromoethene	1.790	108	40199	11.062	ppbv	96
15) Acetone	1.842	43	118513	9.145	ppbv	97
16) 1,3-Butadiene	1.615	39	56246	9.162	ppbv	97
17) tert-Butyl alcohol	2.046	59	133965	9.922	ppbv	99
18) 1,1-Dichloroethene	2.043	96	48846	10.908	ppbv	95
19) Isopropyl Alcohol	1.894	45	75712	9.772	ppbv	96
20) Methylene Chloride	2.068	84	41003	9.587	ppbv	97
21) Allyl Chloride	2.104	41	91875	10.047	ppbv	95
22) trans-1,2-Dichloroethene	2.350	96	54912	10.978	ppbv	93
23) Vinyl Acetate	2.473	43	216370	12.351	ppbv #	98
24) 1,1-Dichloroethane	2.418	63	110695	10.756	ppbv	100
25) Ethyl Acetate	2.845	43	348113	9.815	ppbv	99
26) Hexane	2.839	57	150708	9.352	ppbv	96
27) Carbon Disulfide	2.159	76	133837	10.818	ppbv #	93
28) Methyl tert-Butyl Ether	2.450	73	73405	11.225	ppbv	99
29) Chloroform	2.858	83	224279	10.702	ppbv	97
30) Cyclohexane	3.871	84	121943	9.127	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	143034	9.703	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	214588	10.022	ppbv	99
34) 2-Butanone	2.567	43	230485	11.663	ppbv	99
35) Carbon Tetrachloride	3.781	117	219519	12.000	ppbv	97
36) Benzene	3.671	78	295149	10.816	ppbv	100
37) 1,2-Dichloroethane	3.230	62	171230	12.625	ppbv	97
38) Trichloroethene	4.570	130	117728	10.150	ppbv	91
39) 1,2-Dichloropropane	4.331	63	110494	10.949	ppbv	97
40) 1,4-Dioxane	4.596	88	46497	10.297	ppbv #	89
41) Tetrahydrofuran	3.065	42	122612	10.599	ppbv	98
42) Bromodichloromethane	4.509	83	237205	12.314	ppbv	95
43) Methyl Methacrylate	4.901	69	110610	10.443	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	516730	11.070	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	126703	10.454	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061925\
 Data File : VL042649.D
 Acq On : 19 Jun 2025 10:26
 Operator : SY/MD
 Sample : VL0619ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0619ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 06/23/2025
 Supervised By :Mahesh Dadoda 06/23/2025

Quant Time: Jun 20 01:35:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Fri May 30 02:01:56 2025

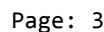
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	160871	10.593	ppbv	97
47) 1,1,2-Trichloroethane	6.603	97	120343	11.520	ppbv	97
48) Dibromochloromethane	7.409	129	188153	11.251	ppbv	100
49) Bromoform	9.503	173	162341	11.251	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	300801	10.974	ppbv	98
51) 2-Hexanone	7.454	43	237712	10.935	ppbv #	97
52) Tetrachloroethene	8.244	164	100098	9.816	ppbv	99
53) Toluene	6.959	91	330131	10.467	ppbv	100
54) 1,2-Dibromoethane	7.674	107	172654	11.166	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.943	131	144799	11.799	ppbv	98
57) Chlorobenzene	8.940	112	263529	11.120	ppbv	95
58) Ethyl Benzene	9.374	91	458900	11.085	ppbv	95
59) m/p-Xylene	9.568	91	756459m	23.219	ppbv	
60) o-Xylene	9.982	91	380653	11.715	ppbv	96
61) Styrene	9.888	104	157508	10.253	ppbv	96
62) Isopropylbenzene	10.555	105	547590	11.407	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	242285	11.726	ppbv	99
64) n-propylbenzene	11.002	120	145308	11.293	ppbv	94
65) tert-Butylbenzene	11.545	119	480384	11.028	ppbv	96
66) Benzyl Chloride	11.626	91	51799	9.238	ppbv	100
67) sec-Butylbenzene	11.782	105	694122	11.334	ppbv	98
69) p-Isopropyltoluene	11.937	119	576427	11.239	ppbv	98
70) n-Butylbenzene	12.293	91	593718	11.728	ppbv	98
71) 2-Chlorotoluene	10.914	91	414838	11.330	ppbv	97
72) 4-Ethyltoluene	11.138	105	468085	11.555	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	385574	11.500	ppbv	97
74) 1,2,4-Trimethylbenzene	11.552	105	431688	11.602	ppbv	94
75) 1,3-Dichlorobenzene	11.620	146	267433	11.446	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	266891	11.453	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	256891	11.328	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	184233	9.819	ppbv	99
79) Naphthalene	13.523	128	414690	11.824	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	191696	12.098	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	208526	10.651	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Jun 20 01:35:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri May 30 02:01:56 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VL052925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042579.D	Ethanol	SAM	5/30/2025 7:46:58 AM	MMDadoda	5/30/2025 12:25:20 PM	Peak Integrated by Software
VSTDICCC010	VL042579.D	m/p-Xylene	SAM	5/30/2025 7:46:58 AM	MMDadoda	5/30/2025 12:25:20 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	1,4-Dioxane	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	Ethanol	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	m/p-Xylene	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	Methyl Methacrylate	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC002	VL042580.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:04 AM	MMDadoda	5/30/2025 12:25:22 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	1,4-Dioxane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	2,2,4-Trimethylpentane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	Heptane	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDICC001	VL042581.D	m/p-Xylene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL052925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VL042581.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:47:55 AM	MMDadoda	5/30/2025 12:25:24 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,1,2-Trichloroethane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,2-Dichloropropane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	1,4-Dioxane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	4-Methyl-2-Pentanone	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Benzyl Chloride	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	cis-1,3-Dichloropropene	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Cyclohexane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Dibromochloromethane	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	Ethanol	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.5	VL042582.D	m/p-Xylene	SAM	5/30/2025 7:48:07 AM	MMDadoda	5/30/2025 12:25:26 PM	Peak Integrated by Software
VSTDIC0.1	VL042583.D	1,2-Dibromoethane	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDIC0.1	VL042583.D	Naphthalene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl052925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042583.D	Tetrachloroethene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDICC0.1	VL042583.D	Trichloroethene	SAM	5/30/2025 7:48:14 AM	MMDadoda	5/30/2025 12:25:28 PM	Peak Integrated by Software
VSTDICC0.03	VL042584.D	1,1,1-Trichloroethane	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDICC0.03	VL042584.D	Carbon Tetrachloride	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDICC0.03	VL042584.D	Tetrachloroethene	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDICC0.03	VL042584.D	Trichloroethene	SAM	5/30/2025 7:47:15 AM	MMDadoda	5/30/2025 12:25:30 PM	Peak Integrated by Software
VSTDICC015	VL042585.D	Ethanol	SAM	5/30/2025 7:48:19 AM	MMDadoda	5/30/2025 12:25:32 PM	Peak Integrated by Software
VSTDICC015	VL042585.D	m/p-Xylene	SAM	5/30/2025 7:48:19 AM	MMDadoda	5/30/2025 12:25:32 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	Ethanol	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	m/p-Xylene	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software
VSTDICV010	VL042586.D	t-1,3-Dichloropropene	SAM	5/30/2025 7:48:25 AM	MMDadoda	5/30/2025 12:25:34 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL061925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042647.D	m/p-Xylene	SAM	6/23/2025 7:55:57 AM	MMDadoda	6/23/2025 1:16:41 PM	Peak Integrated by Software
VL0619ABS01	VL042649.D	m/p-Xylene	SAM	6/23/2025 7:56:11 AM	MMDadoda	6/23/2025 1:16:45 PM	Peak Integrated by Software
Q2368-02	VL042654.D	4-Methyl-2-Pentanone	SAM	6/23/2025 7:56:26 AM	MMDadoda	6/23/2025 1:16:58 PM	Peak Integrated by Software
Q2368-02	VL042654.D	Acetone	SAM	6/23/2025 7:56:26 AM	MMDadoda	6/23/2025 1:16:58 PM	Peak Integrated by Software
Q2368-02	VL042654.D	Carbon Tetrachloride	SAM	6/23/2025 7:56:26 AM	MMDadoda	6/23/2025 1:16:58 PM	Peak Integrated by Software
Q2368-02	VL042654.D	Chlorodifluoromethane	SAM	6/23/2025 7:56:26 AM	MMDadoda	6/23/2025 1:16:58 PM	Peak Integrated by Software
Q2368-02	VL042654.D	Tetrahydrofuran	SAM	6/23/2025 7:56:26 AM	MMDadoda	6/23/2025 1:16:58 PM	Peak Integrated by Software
Q2368-02	VL042654.D	Trichloroethene	SAM	6/23/2025 7:56:26 AM	MMDadoda	6/23/2025 1:16:58 PM	Peak Integrated by Software
Q2368-02	VL042654.D	Trichlorofluoromethane	SAM	6/23/2025 7:56:26 AM	MMDadoda	6/23/2025 1:16:58 PM	Peak Integrated by Software
Q2368-01	VL042655.D	Cyclohexane	SAM	6/23/2025 7:57:10 AM	MMDadoda	6/23/2025 1:16:59 PM	Peak Integrated by Software
Q2368-01	VL042655.D	Tetrachloroethene	SAM	6/23/2025 7:57:10 AM	MMDadoda	6/23/2025 1:16:59 PM	Peak Integrated by Software
Q2368-01	VL042655.D	Tetrahydrofuran	SAM	6/23/2025 7:57:10 AM	MMDadoda	6/23/2025 1:16:59 PM	Peak Integrated by Software
Q2368-02DL	VL042660.D	Acetone	SAM	6/23/2025 7:56:40 AM	MMDadoda	6/23/2025 1:17:08 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL061925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2368-02DL	VL042660.D	Benzene	SAM	6/23/2025 7:56:40 AM	MMDadoda	6/23/2025 1:17:08 PM	Peak Integrated by Software
Q2368-02DL	VL042660.D	Isopropyl Alcohol	SAM	6/23/2025 7:56:40 AM	MMDadoda	6/23/2025 1:17:08 PM	Peak Integrated by Software
Q2368-02DL	VL042660.D	m/p-Xylene	SAM	6/23/2025 7:56:40 AM	MMDadoda	6/23/2025 1:17:08 PM	Peak Integrated by Software
Q2368-02DL	VL042660.D	o-Xylene	SAM	6/23/2025 7:56:40 AM	MMDadoda	6/23/2025 1:17:08 PM	Peak Integrated by Software
Q2368-01DUP	VL042661.D	2-Hexanone	SAM	6/23/2025 7:56:06 AM	MMDadoda	6/23/2025 1:17:10 PM	Peak Integrated by Software
Q2368-01DUP	VL042661.D	Cyclohexane	SAM	6/23/2025 7:56:06 AM	MMDadoda	6/23/2025 1:17:10 PM	Peak Integrated by Software
Q2368-01DUP	VL042661.D	Heptane	SAM	6/23/2025 7:56:06 AM	MMDadoda	6/23/2025 1:17:10 PM	Peak Integrated by Software
Q2368-01DUP	VL042661.D	Tetrachloroethene	SAM	6/23/2025 7:56:06 AM	MMDadoda	6/23/2025 1:17:10 PM	Peak Integrated by Software
Q2368-01DUP	VL042661.D	Tetrahydrofuran	SAM	6/23/2025 7:56:06 AM	MMDadoda	6/23/2025 1:17:10 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042578.D	29 May 2025 08:05	SY/MD	Ok
2	VSTDICCC010	VL042579.D	29 May 2025 11:09	SY/MD	Ok,M
3	VSTDICCC002	VL042580.D	29 May 2025 11:43	SY/MD	Ok,M
4	VSTDICCC001	VL042581.D	29 May 2025 12:15	SY/MD	Ok,M
5	VSTDICCC0.5	VL042582.D	29 May 2025 12:47	SY/MD	Ok,M
6	VSTDICCC0.1	VL042583.D	29 May 2025 13:19	SY/MD	Ok,M
7	VSTDICCC0.03	VL042584.D	29 May 2025 13:51	SY/MD	Ok,M
8	VSTDICCC015	VL042585.D	29 May 2025 14:24	SY/MD	Ok,M
9	VSTDICV010	VL042586.D	29 May 2025 14:56	SY/MD	Ok,M
10	VL0529ABL01	VL042587.D	29 May 2025 15:44	SY/MD	Not Ok
11	VL0529ABL02	VL042588.D	29 May 2025 16:50	SY/MD	Ok
12	Q2124-01	VL042589.D	29 May 2025 17:22	SY/MD	Dilution
13	Q2124-01DL	VL042590.D	29 May 2025 17:55	SY/MD	Ok,M
14	VL0529ABS01	VL042591.D	29 May 2025 18:27	SY/MD	Ok,M
15	Q2124-02	VL042592.D	29 May 2025 19:00	SY/MD	Ok,M
16	Q2124-02DL	VL042593.D	29 May 2025 19:32	SY/MD	Not Ok
17	Q2124-03	VL042594.D	29 May 2025 20:05	SY/MD	Ok,M
18	Q2124-03DL	VL042595.D	29 May 2025 20:37	SY/MD	Not Ok
19	Q2124-01DUP	VL042596.D	29 May 2025 21:10	SY/MD	Not Ok
20	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	SY/MD	Not Ok
21	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18	SY/MD	Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2629			
Initial Calibration Stds		AP2623,AP2625,AP2626			
CCC		AP2623			
Internal Standard/PEM		AP2629			
ICV/I.BLK		AP2627			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	CAN10053	VL042599.D	29 May 2025 22:52	SY/MD	Ok
23	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26	SY/MD	Ok
24	Q2124-01DUP	VL042601.D	29 May 2025 23:58	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL061925

Review By	Semsettin Yesilyurt	Review On	6/23/2025 8:05:26 AM		
Supervise By	Maresh Dadoda	Supervise On	6/23/2025 1:17:37 PM		
SubDirectory	VL061925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042646.D	19 Jun 2025 08:10	SY/MD	Ok
2	VSTDCCC010	VL042647.D	19 Jun 2025 08:56	SY/MD	Ok,M
3	VL0619ABL01	VL042648.D	19 Jun 2025 09:42	SY/MD	Ok
4	VL0619ABS01	VL042649.D	19 Jun 2025 10:26	SY/MD	Ok,M
5	Q2359-01DL	VL042650.D	19 Jun 2025 11:09	SY/MD	Ok,M
6	Q2359-01	VL042651.D	19 Jun 2025 11:58	SY/MD	Dilution
7	Q2359-01DUP	VL042652.D	19 Jun 2025 12:34	SY/MD	Ok,M
8	Q2369-02	VL042653.D	19 Jun 2025 13:37	SY/MD	Ok,M
9	Q2368-02	VL042654.D	19 Jun 2025 14:36	SY/MD	Dilution
10	Q2368-01	VL042655.D	19 Jun 2025 15:09	SY/MD	Ok,M
11	Q2368-01DL	VL042656.D	19 Jun 2025 15:43	SY/MD	Not Ok
12	Q2369-01	VL042657.D	19 Jun 2025 16:17	SY/MD	Dilution
13	Q2369-01DL	VL042658.D	19 Jun 2025 16:52	SY/MD	Ok,M
14	VIBLK	VL042659.D	19 Jun 2025 17:26	SY/MD	Ok
15	Q2368-02DL	VL042660.D	19 Jun 2025 18:00	SY/MD	Ok,M
16	Q2368-01DUP	VL042661.D	20 Jun 2025 07:50	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM
Supervise By	Maresh Dadoda	Supervise On	5/30/2025 12:26:19 PM
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL052925AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2629		
Initial Calibration Stds	AP2623,AP2625,AP2626		
CCC	AP2623		
Internal Standard/PEM	AP2629		
ICV/I.BLK	AP2627		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042578.D	29 May 2025 08:05		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042579.D	29 May 2025 11:09		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042580.D	29 May 2025 11:43		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042581.D	29 May 2025 12:15		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042582.D	29 May 2025 12:47		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042583.D	29 May 2025 13:19		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042584.D	29 May 2025 13:51		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042585.D	29 May 2025 14:24		SY/MD	Ok,M
9	VSTDICV010	ICVVL052925	VL042586.D	29 May 2025 14:56	comp#13 fail	SY/MD	Ok,M
10	VL0529ABL01	VL0529ABL01	VL042587.D	29 May 2025 15:44	carryover	SY/MD	Not Ok
11	VL0529ABL02	VL0529ABL02	VL042588.D	29 May 2025 16:50		SY/MD	Ok
12	Q2124-01	SV1	VL042589.D	29 May 2025 17:22	Need 20X	SY/MD	Dilution
13	Q2124-01DL	SV1DL	VL042590.D	29 May 2025 17:55		SY/MD	Ok,M
14	VL0529ABS01	VL0529ABS01	VL042591.D	29 May 2025 18:27		SY/MD	Ok,M
15	Q2124-02	SV2	VL042592.D	29 May 2025 19:00		SY/MD	Ok,M
16	Q2124-02DL	SV2DL	VL042593.D	29 May 2025 19:32	Not Required	SY/MD	Not Ok
17	Q2124-03	SV3	VL042594.D	29 May 2025 20:05		SY/MD	Ok,M
18	Q2124-03DL	SV3DL	VL042595.D	29 May 2025 20:37	Not Required	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL052925

Review By	Semsettin Yesilyurt	Review On	5/30/2025 7:50:21 AM		
Supervise By	Mahesh Dadoda	Supervise On	5/30/2025 12:26:19 PM		
SubDirectory	VL052925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL052925AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2629				
Initial Calibration Stds	AP2623,AP2625,AP2626				
CCC	AP2623				
Internal Standard/PEM	AP2629				
ICV/I.BLK	AP2627				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2124-01DUP	SV1DUP	VL042596.D	29 May 2025 21:10	wrong purge	SY/MD	Not Ok
20	QC052725 CAN 10609	QC052725 CAN 10609	VL042597.D	29 May 2025 21:44	Contaminated	SY/MD	Not Ok
21	QC052725 CAN 10609	QC052725 CAN 10609	VL042598.D	29 May 2025 22:18		SY/MD	Ok
22	CAN10053	CAN10053	VL042599.D	29 May 2025 22:52		SY/MD	Ok
23	QC05225 CAN 10154	QC05225 CAN 10154	VL042600.D	29 May 2025 23:26		SY/MD	Ok
24	Q2124-01DUP	SV1DUP	VL042601.D	29 May 2025 23:58		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL061925

Review By	Semsettin Yesilyurt	Review On	6/23/2025 8:05:26 AM
Supervise By	Maresh Dadoda	Supervise On	6/23/2025 1:17:37 PM
SubDirectory	VL061925	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL052925AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2629
Initial Calibration Stds	AP2623,AP2625,AP2626
CCC	AP2623
Internal Standard/PEM	AP2629
ICV/I.BLK	AP2627
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042646.D	19 Jun 2025 08:10		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042647.D	19 Jun 2025 08:56		SY/MD	Ok,M
3	VL0619ABL01	VL0619ABL01	VL042648.D	19 Jun 2025 09:42		SY/MD	Ok
4	VL0619ABS01	VL0619ABS01	VL042649.D	19 Jun 2025 10:26		SY/MD	Ok,M
5	Q2359-01DL	SS-1DL	VL042650.D	19 Jun 2025 11:09		SY/MD	Ok,M
6	Q2359-01	SS-1	VL042651.D	19 Jun 2025 11:58	Need 10X	SY/MD	Dilution
7	Q2359-01DUP	SS-1DUP	VL042652.D	19 Jun 2025 12:34		SY/MD	Ok,M
8	Q2369-02	IA1	VL042653.D	19 Jun 2025 13:37		SY/MD	Ok,M
9	Q2368-02	IA1	VL042654.D	19 Jun 2025 14:36	Need 40X	SY/MD	Dilution
10	Q2368-01	SV1	VL042655.D	19 Jun 2025 15:09		SY/MD	Ok,M
11	Q2368-01DL	SV1DL	VL042656.D	19 Jun 2025 15:43	Not required	SY/MD	Not Ok
12	Q2369-01	SV1	VL042657.D	19 Jun 2025 16:17	Need 40X	SY/MD	Dilution
13	Q2369-01DL	SV1DL	VL042658.D	19 Jun 2025 16:52		SY/MD	Ok,M
14	VIBLK	VIBLK	VL042659.D	19 Jun 2025 17:26		SY/MD	Ok
15	Q2368-02DL	IA1DL	VL042660.D	19 Jun 2025 18:00		SY/MD	Ok,M
16	Q2368-01DUP	SV1DUP	VL042661.D	20 Jun 2025 07:50		SY/MD	Ok,M

M : Manual Integration

Client Contact Information		Bottle Order ID : B2506029		Courier : Frank Galdun		1 of 2 COCs													
Client ID : GFE01		Project ID : Unknown Bronx		Sampler Name(s) : Frank Galdun		Analysis Matrix													
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified															
Address : 58 Nokomis Ave		Phone Number : 646-542-3465																	
City : Lake Hiawatha		Fax Number : 973-334-1692																	
State : NJ		Analysis Turnaround Time : 5 DAY		Data Package Type : Resonance															
Zip Code : 07034		Standard : 10-business days OR Days		EDD Type :															
Country :		Rush (Specify):																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)												
SV1	1/18/05 10:52	10:52	12:20	0.00	0.00	75	75												
				Out going Can Pressure ("Hg) (Lab)	In coming Can Pressure ("Hg) (Lab)	Flow Reg. ID	Flow Controller Readout (ml/min)												
				-30	-4.7	10649	50												
				Can ID	Can Cert ID														
				10606	VL042491.D														
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																			
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>								Ambient	Maximum	Minimum				Start			Stop		
Ambient	Maximum	Minimum																	
Start																			
Stop																			
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>								Ambient	Maximum	Minimum				Start			Stop		
Ambient	Maximum	Minimum																	
Start																			
Stop																			
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.																			
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium Low																			
Sampling site (State):																			
Quick Connector required : NLO																			
Canisters Shipped by: Seam		Date/Time: 1/13/05		Canisters Received by:		Date/Time:													
Samples Relinquished by: Frank		Date/Time: 1/13/05		Received by:		Date/Time:													
Relinquished by:		Date/Time:		Received by:		Date/Time: 1/19/05 1237													
PTD Readings: 0.7																			
B2506029 - 4																			

Client Contact Information		Bottle Order ID : B2506029		Courier : F. Galdun		Analysis		Matrix											
Client ID : GFELO1		Project ID : Unlabeled Air - Bronx		Sampler Name(s) : FRANK GILDUN															
Customer Name : GFE LLC		Project Manager : Frank galdun																	
Address : 58 Nokomis Ave		Phone Number : 646-542-3465																	
		Fax Number : 973-334-1692																	
City : Lake Hiawatha		Site Details: 1426 OGDEN AVE. BRONX, NY																	
State : NJ		Analysis Turnaround Time 5 DAY																	
Zip Code : 07034		Standard : 16 business days OR 5 DAY																	
Country : USA		Rush (Specify): 5 Days																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID						
TA1	6/18/25	12:00	12:45	4.5	4.5	75	75	-30	-5.9	10511	10321	50	VL042490.D	1	1	1	1	1	1
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																			
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.																			
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium Low Low PID Readings: Q.O																			
Sampling site (State):																			
Quick Connector required : NO																			
Canisters Shipped by: <i>[Signature]</i>																			
Samples Relinquished by: <i>[Signature]</i>																			
Relinquished by: <i>[Signature]</i>																			
Date/Time: 6/13/25 Canisters Received by: 6/13/25																			
Date/Time: 6/19/25 Received by: 6/19/25																			
Date/Time: 6/19/25 Received by: 6/19/25																			
B2506029 - 2																			

REQUESTED ANALYTE LIST:

PCE
TCE
cis-1,2-DCE
1,1,1-TCA
1,2-DCE
1,1-DCE
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Naphthalene
Cyclohexane
2,2,4-Trimethylpentane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
o-xylene
m,p-xylene
Heptane
Hexane

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample		Laboratory: Chemtech	
Location: 284 Sheffield Street, Mountainside, NJ 7092		Title: Sample Custodian	
Date Broken: 6/19/2025		Field Sample Seal No. Q2368	
Military Time Seal Broken: 12:37:00		Case No.: 1426 Qden Ave, Bronx NJ	
Analytical Parameter/Fraction/OCMS Group2			

Sample No.	Alliquot/Extract No.	Sample No.	Alliquot/Extract No.
Q2368-01	SV1		
Q2368-02	IA1		

[illegible]

Distribution: White - Original (Sent With Report)
Yellow - Contractor Archive
Pink - Sample Custodian - Interim Copy

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

METHOD: TO-15

Analyst Signature:

Supervisor Signature:

Pressure Gauge ID: A755971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
6/19/18	Q2359-01	10280	10.6	-8.4				
6/19/18	Q2368-01	10606	12.4	-4.7				
	Q2368-02	10321	11.8	-5.9				
	Q2369-01	10153	12.4	-4.7				
	Q2369-02	10590	12.0	-5.5				

Process Report

284 Sheffield Street, Mountinside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Order ID : Q2368

Date	Bottle ID	Lab Sample Number	Incoming Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
06/19/2025	B2506029	Q2368-01	-4.7	10606	6 L	10649		C2504015	VL042491.D Seq: V1050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D
06/19/2025	B2506029	Q2368-02	-5.9	10321	6 L	10511		C2504016	VL042490.D Seq: V1050625 TUNE : VL042486.D ICAL : VL042466.D CCAL : VL042487.D MB : VL042488.D

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #:

Client Name:

Project Name:

Date:

Analysis:

Comments:

CHEMTECH

Date Received:

Storage Location: VOA Lab

Sample: Q2368-01

Cust #: SV1

Time:

Disposal:

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #:

Client Name:

Project Name:

Date:

Analysis:

Comments:

CHEMTECH'S

Date Received:

Storage Location: VOA Lab

Sample: Q2368-02

Cust #: IA1

Time:

Disposal: