



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2508043				Courier : F GALDUN				1 of 3 COCs																	
Client ID : GFEL01				Project ID : 213 FLORIDA ST ELIZABETH NJ				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix															
Customer : GFE LLC Name : Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 118 FULTON AVE. GARDEN CITY PARK, NY																									
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY																					
State : NJ				Standard : 10 business days OR																									
Zip Code : 07034				Rush (Specify): 5 Days				EDD Type : PID																					
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												
0A1	8/27/25	8:52	10:52	30	5.5			-30	-5.9	10185	10153	6 L	50	VL042860.D															
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>63</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>68</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	63			Stop	68			GC/MS Analyst Signature (TO-15) 							
	Ambient	Maximum	Minimum																										
Start	63																												
Stop	68																												
Pressure (Inches of Hg) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC Indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES IN 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: 0, 0																													
Sampling site (State):																													
Quick Connector required : NO																													
Canisters Shipped by: 				Date/Time: 8/27/25				Canisters Received by: 				Date/Time: 9/2/25 1049																	
Samples Relinquished by:				Date/Time:				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2508025				Courier : F. GALDUN				2 THH of 3 THH COCs																	
Client ID : GFEL01				Project ID : 739 Nostrand Ave, Brooklyn, NY				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 Individual Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 118 FULTON AVE. GARDEN CITY PARK NY																									
				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY																					
				Standard : 10 days 5 days OR				EDD Type : PDF																					
				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												
JA1	8/21/25	8:49	10:49	30	4.5	61	63	-30	.55	10502	10283	6 L	50	VL042829.D	1	1													
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) Sut							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES IN 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: 0.0																													
Sampling site (State):																													
Quick Connector required : NO																													
Canisters Shipped by: Sut				Date/Time: 8/13/25				Canisters Received by: OR				Date/Time: 9/2/25 12:15																	
Samples Relinquished by: Sut				Date/Time:				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2508025				Courier : F. GALDUN				3 of 3 COCs			
Client ID : GFEL01				Project ID : 739 Nostrand Ave, Brooklyn, NY				Sampler Name(s) : FRANK GALDUN				Analysis			
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				Indoor Ambient Air Soil Gas			
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 118 FULTON AVE GREENWICH CITY PARK, NY											
Analysis Turnaround Time 5 DAY				Standard : 10 business days OR				Data Package Type : RESULTS ONLY							
Rush (Specify): 5 Days				EDD Type : PDF											

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				
SA 2	8/29/25	8:58	10:58	OVER 30	6.5	61	63	-30	-5.5	10616	10266	6 L	50	VL042829.D	1			1	

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) Sut

** 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 PID Readings: **0.0**

Sampling site (State):

Quick Connector required : **NO**

Canisters Shipped by: Sam	Date/Time: 08/13/25	Canisters Received by: af	Date/Time: 9/2/25 1049
Samples Relinquished by: FW	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2508025 - 3

Date

PCE

TCE

cis-1,2-DCE

1,1-DCE

1,1,1-TCA

VINYL CHLORIDE

BENZENE

ETHYLBENZENE

NAPHTHALENE

CYCLOHEXANE

2,2,4-TRIMETHYLPENTANE

1,2,4-TRIMETHYLBENZENE

1,3,5-TRIMETHYLBENZENE

O-XYLENE

m,p-XYLENE

HEPTANE

HEXANE

TOLUENE



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

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

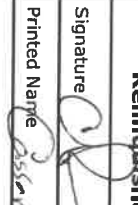
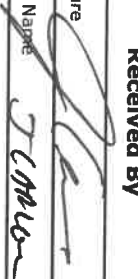
New Jersey Department of Environmental Protection

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> QA/QC Field Sample Seal No. <u>Q3000</u> Case No.: <u>118 Fulton Ave</u>	Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u> Title: <u>Sample Custodian</u> Date Broken <u>9/3/2025</u> Analytical Parameter/Fraction <u>MOCMS Group2</u>
Military Time Seal Broken: <u>10:45:00</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3000-01	OA1		
Q3000-02	IA1		
Q3000-03	IA2		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
9/3/25	13:30	Signature		Signature		As IL LAB
		Printed Name	Christine Lee	Printed Name	J. Miller	
		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

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

LAB CHRONICLE

OrderID:	Q3000	OrderDate:	9/2/2025 12:24:00 PM
Client:	GFE LLC	Project:	118 Fulton Ave, GARDENCITYPARK,NY
Contact:	Frank Galdun	Location:	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3000-01	OA1	Air	VOCMS Group2	TO-15	08/29/25		09/04/25	09/02/25
Q3000-02	IA1	Air	VOCMS Group2	TO-15	08/29/25		09/04/25	09/02/25
Q3000-03	IA2	Air	VOCMS Group2	TO-15	08/29/25		09/04/25	09/02/25

Hit Summary Sheet
SW-846

SDG No.: Q3000
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	OA1							
Q3000-01	OA1	Air	2,2,4-Trimethylpentane	3.88		0.65	2.34	ug/m3
Q3000-01	OA1	Air	Benzene	1.18	J	0.26	1.60	ug/m3
Q3000-01	OA1	Air	Toluene	7.54		0.60	1.88	ug/m3
Q3000-01	OA1	Air	m/p-Xylene	1.87	J	1.78	4.34	ug/m3
Q3000-01	OA1	Air	Hexane	1.83		0.56	1.76	ug/m3
			Total Voc :			16.3		
			Total Concentration:			16.3		
Client ID:	IA1							
Q3000-02	IA1	Air	Benzene	0.35	J	0.26	1.60	ug/m3
Q3000-02	IA1	Air	Toluene	0.94	J	0.60	1.88	ug/m3
Q3000-02	IA1	Air	Tetrachloroethene	0.34		0.14	0.20	ug/m3
Q3000-02	IA1	Air	Hexane	0.81	J	0.56	1.76	ug/m3
			Total Voc :			2.44		
			Total Concentration:			2.44		
Client ID:	IA2							
Q3000-03	IA2	Air	Benzene	0.48	J	0.26	1.60	ug/m3
Q3000-03	IA2	Air	Toluene	1.39	J	0.60	1.88	ug/m3
Q3000-03	IA2	Air	Tetrachloroethene	0.41		0.14	0.20	ug/m3
Q3000-03	IA2	Air	Hexane	1.02	J	0.56	1.76	ug/m3
			Total Voc :			3.30		
			Total Concentration:			3.30		



QC SUMMARY

Surrogate Summary

SDG No.: Q3000

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3000-01	OA1	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135
Q3000-01DUP	OA1DUP	1-Bromo-4-Fluorobenzene	10	10.3	104		65	135
Q3000-02	IA1	1-Bromo-4-Fluorobenzene	10	10.2	102		65	135
Q3000-02DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
Q3000-03	IA2	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
VL0904ABL01	VL0904ABL01	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
VL0904ABS01	VL0904ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3000</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>GFE LLC</u>	Datafile :	<u>VL042890.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0904ABS01	Vinyl Chloride	10	9.30	ppbv	93			70	130	
	Heptane	10	9.50	ppbv	95			70	130	
	1,1-Dichloroethene	10	10.5	ppbv	105			70	130	
	Cyclohexane	10	9.40	ppbv	94			70	130	
	cis-1,2-Dichloroethene	10	9.70	ppbv	97			70	130	
	1,1,1-Trichloroethane	10	9.70	ppbv	97			70	130	
	2,2,4-Trimethylpentane	10	10.8	ppbv	108			70	130	
	Benzene	10	10.8	ppbv	108			70	130	
	Trichloroethene	10	10.1	ppbv	101			70	130	
	Toluene	10	10.2	ppbv	102			70	130	
	Tetrachloroethene	10	9.30	ppbv	93			70	130	
	Ethyl Benzene	10	10.7	ppbv	107			70	130	
	m/p-Xylene	20	22.3	ppbv	112			70	130	
	o-Xylene	10	11.3	ppbv	113			70	130	
	1,3,5-Trimethylbenzene	10	10.8	ppbv	108			70	130	
	1,2,4-Trimethylbenzene	10	10.9	ppbv	109			70	130	
	Naphthalene	10	10.4	ppbv	104			70	130	
	Hexane	10	9.60	ppbv	96			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q3000-02DUP	Q3000-02
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL042893.D	VL042892.D
Anal Date & Time :	09/04/2025 16:53	09/04/2025 16:16

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,3,5-Trimethylbenzene	0	0	0
2,2,4-Trimethylpentane	0	0	0
Benzene	0.12	0.11	8.7
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexane	0.24	0.23	4.3
m/p-Xylene	0	0	0
Naphthalene	0	0	0
o-Xylene	0	0	0
Tetrachloroethene	0.05	0.05	0
Toluene	0.23	0.25	8.3
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

Client ID

IA1DUP

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3000

Lab File ID: VL042893.D

Lab Sample ID: Q3000-02DUP

Date Analyzed: 09/04/2025

Time Analyzed: 16:53

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
IA1DUP	Q3000-02DUP	VL042893.D	09/04/2025
OA1DUP	Q3000-01DUP	VL042897.D	09/04/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0904ABL01

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3000

Lab File ID: VL042889.D

Lab Sample ID: VL0904ABL01

Date Analyzed: 09/04/2025

Time Analyzed: 13:09

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
VL0904ABS01	VL0904ABS01	VL042890.D	09/04/2025
IA1	Q3000-02	VL042892.D	09/04/2025
IA2	Q3000-03	VL042894.D	09/04/2025
OA1	Q3000-01	VL042896.D	09/04/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3000

Lab File ID: VL042841.D

BFB Injection Date: 08/13/2025

Instrument ID: MSVOA_L

BFB Injection Time: 07:45

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	20.8
75	30.0 - 66.0% of mass 95	53.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 120.0% of mass 95	62
175	4.0 - 9.0% of mass 174	4.5 (7.3) 1
176	93.0 - 101.0% of mass 174	60 (96.7) 1
177	5.0 - 9.0% of mass 176	3.7 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042842.D	08/13/2025	08:30
VSTDICCC002	VSTDICCC002	VL042843.D	08/13/2025	09:06
VSTDICCC001	VSTDICCC001	VL042844.D	08/13/2025	09:41
VSTDICCC0.5	VSTDICCC0.5	VL042845.D	08/13/2025	10:17
VSTDICCC0.1	VSTDICCC0.1	VL042846.D	08/13/2025	10:53
VSTDICCC0.03	VSTDICCC0.03	VL042847.D	08/13/2025	11:30
VSTDICCC015	VSTDICCC015	VL042848.D	08/13/2025	12:06

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VL042887.D
Instrument ID: MSVOA_L
GC Column: RTX-1 ID: 0.32 (mm)

Contract: GFEL01
SDG NO.: Q3000
BFB Injection Date: 09/04/2025
BFB Injection Time: 09:58
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.1
75	30.0 - 66.0% of mass 95	57
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.4 (0.7) 1
174	50.0 - 120.0% of mass 95	55.1
175	4.0 - 9.0% of mass 174	4.2 (7.6) 1
176	93.0 - 101.0% of mass 174	51.9 (94.1) 1
177	5.0 - 9.0% of mass 176	3.3 (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:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042888.D	09/04/2025	12:21
VL0904ABL01	VL0904ABL01	VL042889.D	09/04/2025	13:09
VL0904ABS01	VL0904ABS01	VL042890.D	09/04/2025	14:45
IA1	Q3000-02	VL042892.D	09/04/2025	16:16
IA1DUP	Q3000-02DUP	VL042893.D	09/04/2025	16:53
IA2	Q3000-03	VL042894.D	09/04/2025	17:29
OA1	Q3000-01	VL042896.D	09/04/2025	18:41
OA1DUP	Q3000-01DUP	VL042897.D	09/04/2025	19:18

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
 Lab Code: ACE SDG NO.: Q3000
 Lab File ID: VL042888.D Date Analyzed: 09/04/2025
 Instrument ID: MSVOA_L Time Analyzed: 12:21
 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	126170	2.79	354548	3.97	305322	8.89
UPPER LIMIT	176638	3.12	496367	4.30	427451	9.22
LOWER LIMIT	75702	2.46	212729	3.64	183193	8.56
EPA SAMPLE NO.						
OA1	121887	2.80	317296	3.97	269956	8.90
OA1DUP	117843	2.79	310691	3.97	265064	8.89
IA1	123311	2.80	330308	3.97	285076	8.90
IA1DUP	122666	2.80	326405	3.98	275541	8.90
IA2	124375	2.80	330230	3.98	278452	8.90
VL0904ABL01	124977	2.80	337917	3.98	288118	8.90
VL0904ABS01	126424	2.79	347754	3.97	295195	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: Alliance Contract: GFEL01
 Lab Code: ACE SDG NO.: Q3000
 Lab File ID: VL042888.D Date Analyzed: 09/04/2025
 Instrument ID: MSVOA_L Time Analyzed: 12:21
 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.						
OA1	0	0.00				
OA1DUP	0	0.00				
IA1	0	0.00				
IA1DUP	0	0.00				
IA2	0	0.00				
VL0904ABL01	0	0.00				
VL0904ABS01	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:	08/29/25
Project:	118 Fulton Ave, GARDENCITYPARK,NY	Date Received:	09/02/25
Client Sample ID:	OA1	SDG No.:	Q3000
Lab Sample ID:	Q3000-01	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
VL042896.D	1		09/04/25 18:41	VL090425

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	0.83	3.88		0.65	2.34	ug/m3
71-43-2	Benzene	0.37	1.18	J	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	2.00	7.54		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	0.43	1.87	J	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	0.52	1.83		0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	122000		2.797			
540-36-3	1,4-Difluorobenzene	317000		3.972			
3114-55-4	Chlorobenzene-d5	270000		8.895			

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\VL090425\
 Data File : VL042896.D
 Acq On : 04 Sep 2025 18:41
 Operator : SY/MD
 Sample : Q3000-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 01:25:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

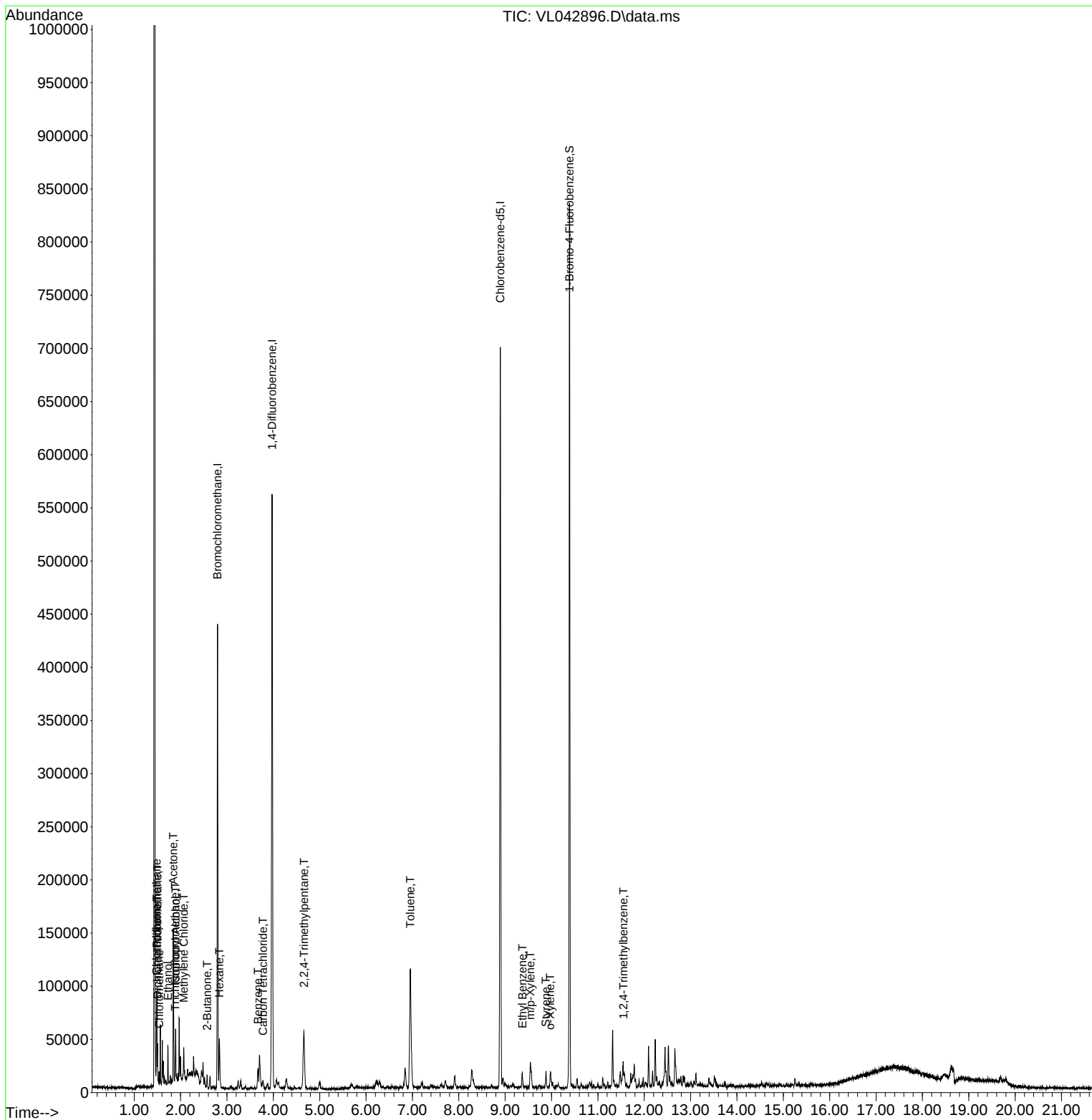
Internal Standards						
1) Bromochloromethane	2.797	49	121887	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	317296	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	269956	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	212487	10.495	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	8904	0.498	ppbv	94
3) Chlorodifluoromethane	1.479	51	20069	1.016	ppbv	98
4) Chloromethane	1.538	50	3344	0.464	ppbv	99
9) Propene	1.486	41	12586	1.476	ppbv	97
11) Trichlorofluoromethane	1.884	101	4432m	0.251	ppbv	
13) Ethanol	1.725	45	12605	16.166	ppbv	97
15) Acetone	1.842	43	64844	4.022	ppbv	95
19) Isopropyl Alcohol	1.894	45	20554	2.134	ppbv #	39
20) Methylene Chloride	2.068	84	4141	0.613	ppbv #	75
26) Hexane	2.839	57	9357	0.519	ppbv #	55
34) 2-Butanone	2.570	43	7209	0.336	ppbv	96
35) Carbon Tetrachloride	3.777	117	2043m	0.093	ppbv	
36) Benzene	3.671	78	11374	0.374	ppbv	99
44) 2,2,4-Trimethylpentane	4.661	57	42566	0.825	ppbv #	85
53) Toluene	6.953	91	72080	1.995	ppbv	100
58) Ethyl Benzene	9.370	91	6883	0.144	ppbv	92
59) m/p-Xylene	9.545	91	16076m	0.431	ppbv	
60) o-Xylene	9.972	91	6702m	0.178	ppbv	
61) Styrene	9.878	104	4364	0.248	ppbv	94
74) 1,2,4-Trimethylbenzene	11.549	105	6066	0.143	ppbv #	63

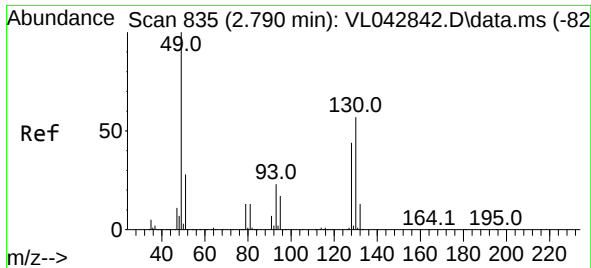
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integrations

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

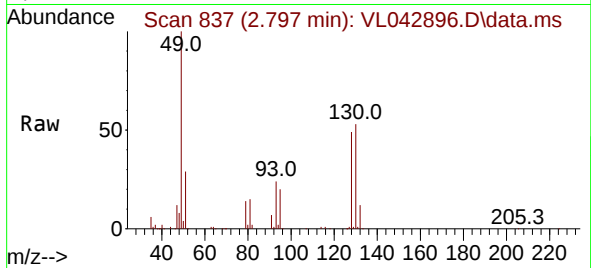
Quant Time: Sep 05 01:25:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

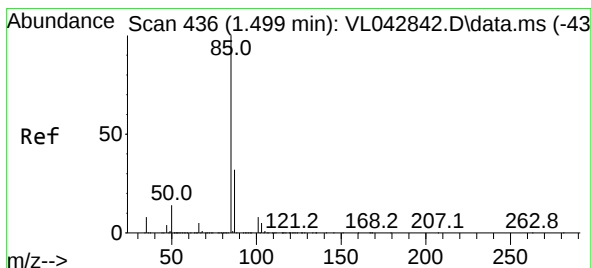
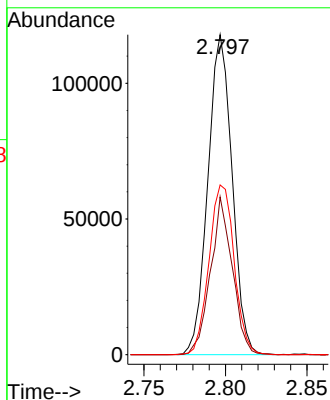
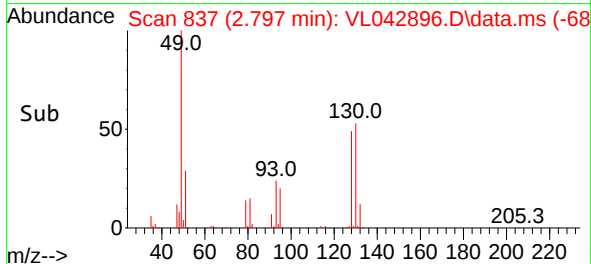
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 12188
Ion Ratio Lower Upper
49 100
128 44.5 23.7 71.1
130 55.3 30.6 91.6

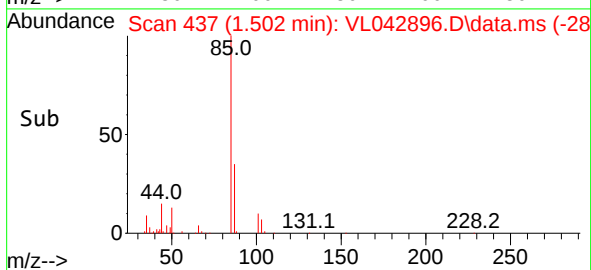
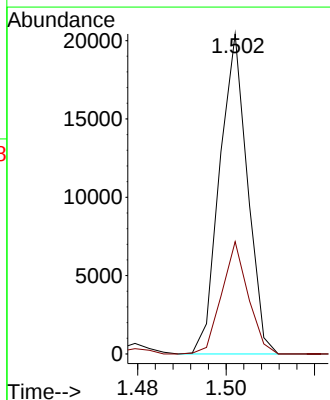
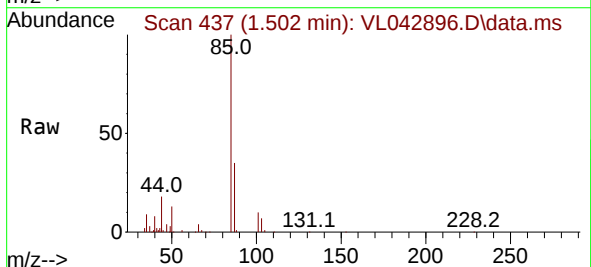
Manual Integrations
APPROVED

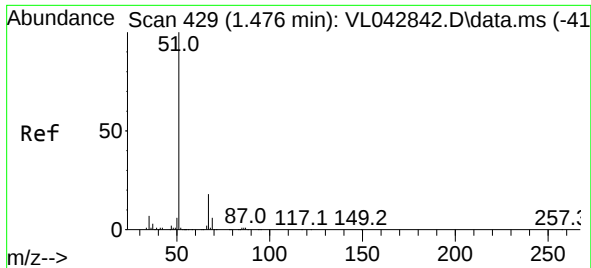
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#2
Dichlorodifluoromethane
Concen: 0.498 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

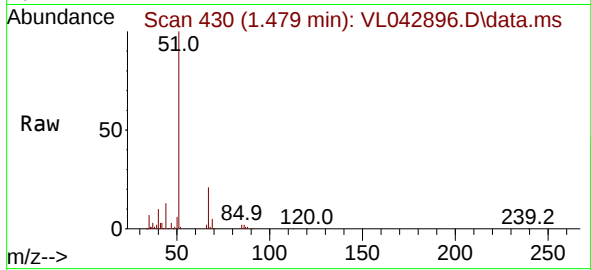
Tgt Ion: 85 Resp: 8904
Ion Ratio Lower Upper
85 100
87 35.1 25.3 37.9





#3
Chlorodifluoromethane
Concen: 1.016 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

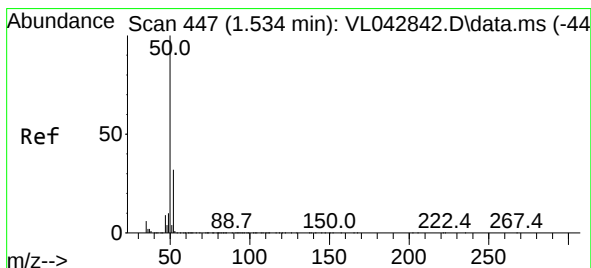
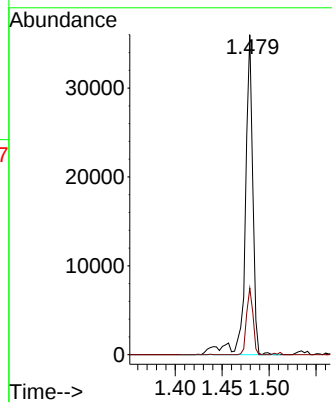
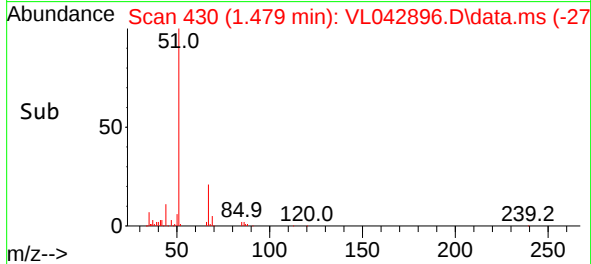
Instrument :
MSVOA_L
ClientSampleId :
OA1



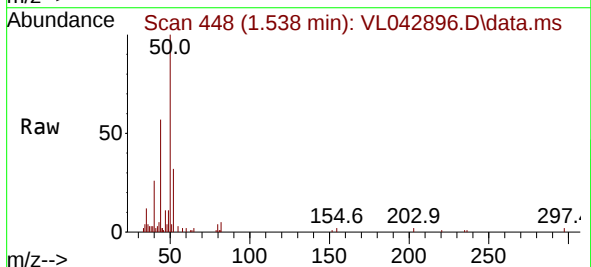
Tgt Ion: 51 Resp: 20069
Ion Ratio Lower Upper
51 100
67 17.7 14.9 22.3

Manual Integrations
APPROVED

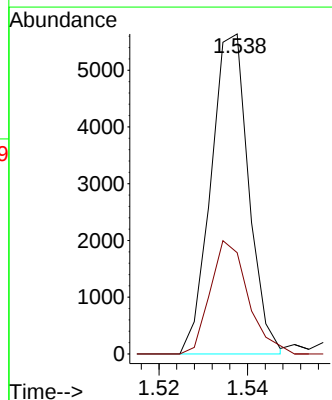
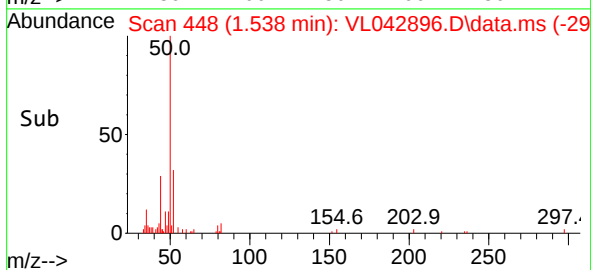
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

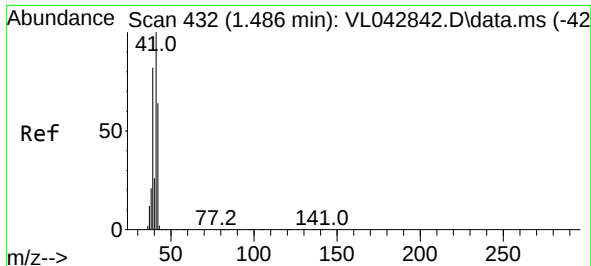


#4
Chloromethane
Concen: 0.464 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41



Tgt Ion: 50 Resp: 3344
Ion Ratio Lower Upper
50 100
52 31.7 25.9 38.9





#9

Propene

Concen: 1.476 ppbv

RT: 1.486 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042896.D

Acq: 04 Sep 2025 18:41

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 41 Resp: 1258

Ion Ratio Lower Upper

41 100

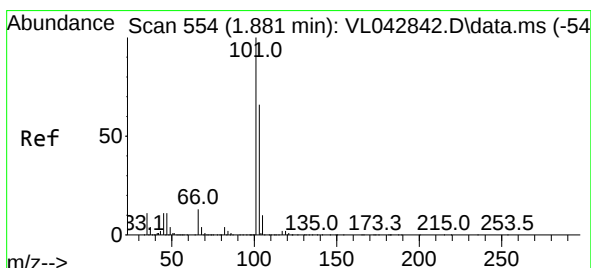
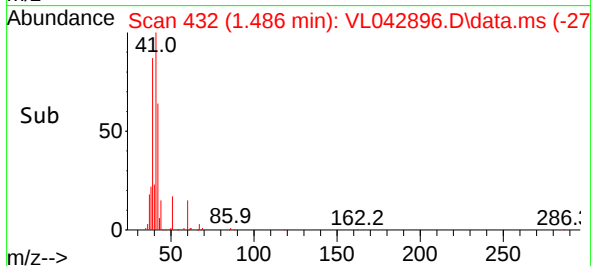
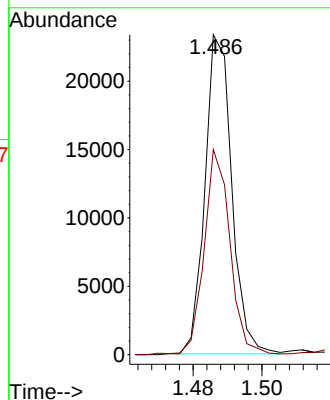
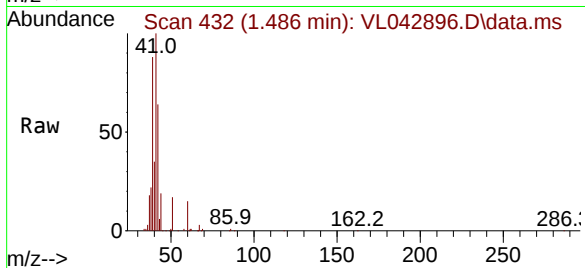
42 63.5 53.0 79.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#11

Trichlorofluoromethane

Concen: 0.251 ppbv m

RT: 1.884 min Scan# 555

Delta R.T. 0.003 min

Lab File: VL042896.D

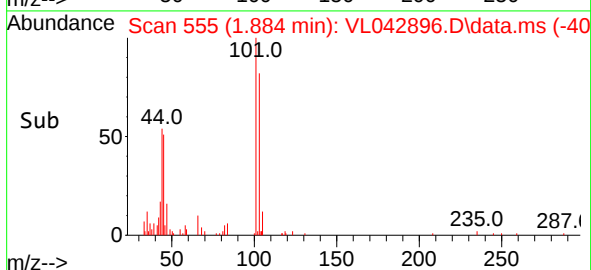
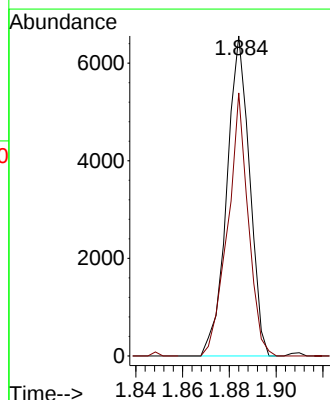
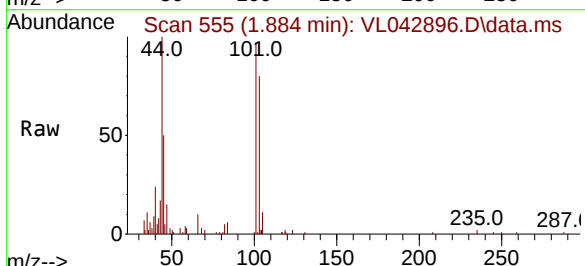
Acq: 04 Sep 2025 18:41

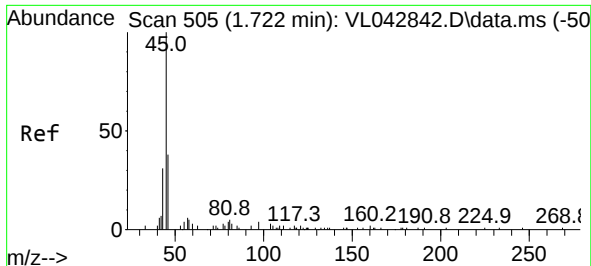
Tgt Ion:101 Resp: 4432

Ion Ratio Lower Upper

101 100

103 82.2 52.5 78.7#





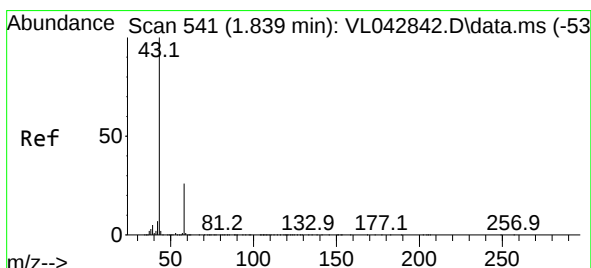
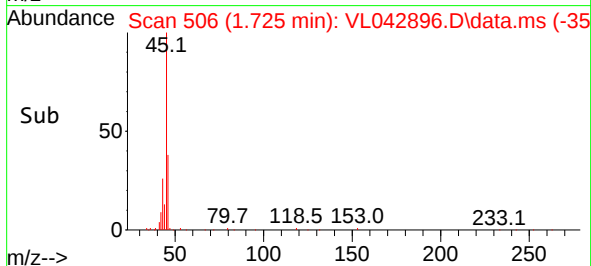
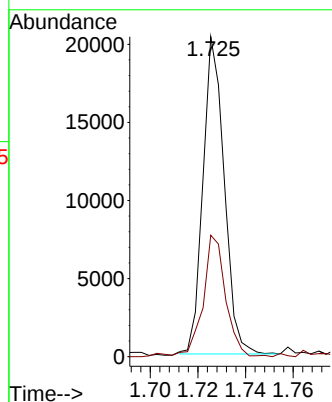
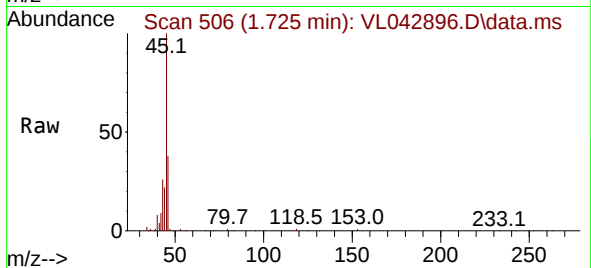
#13
Ethanol
Concen: 16.166 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 1260
Ion Ratio Lower Upper
45 100
46 41.5 17.5 69.9

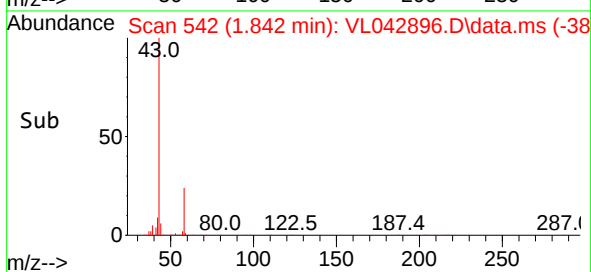
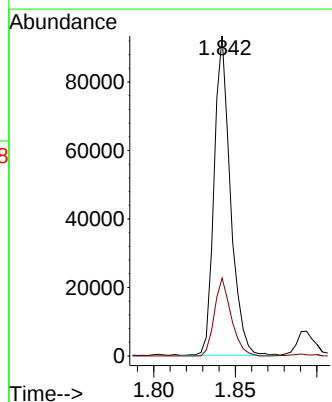
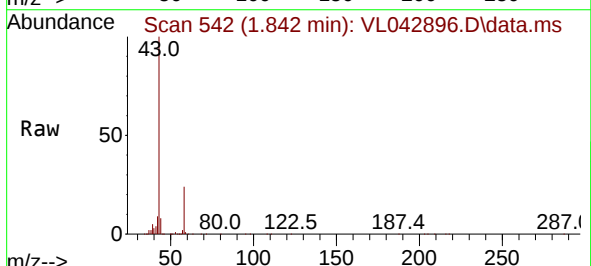
Manual Integrations
APPROVED

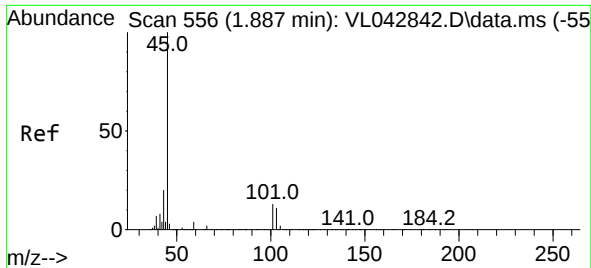
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#15
Acetone
Concen: 4.022 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.003 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

Tgt Ion: 43 Resp: 64844
Ion Ratio Lower Upper
43 100
58 25.1 22.4 33.6





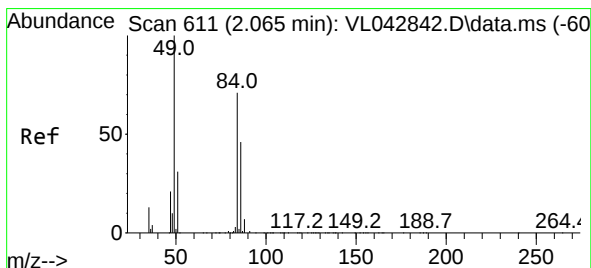
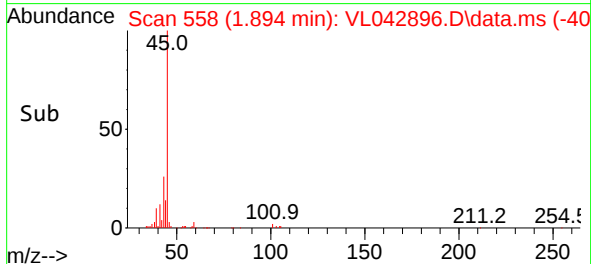
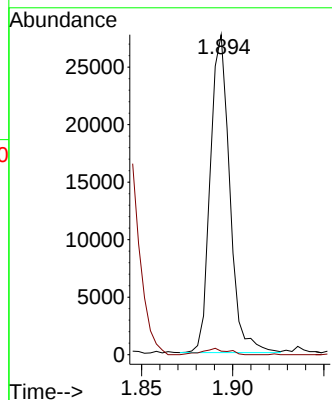
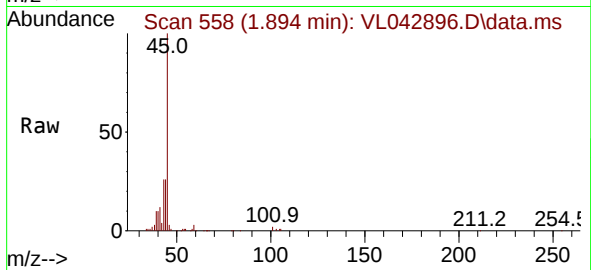
#19
Isopropyl Alcohol
Concen: 2.134 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.006 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 20554
Ion Ratio Lower Upper
45 100
58 79.3 32.7 49.1

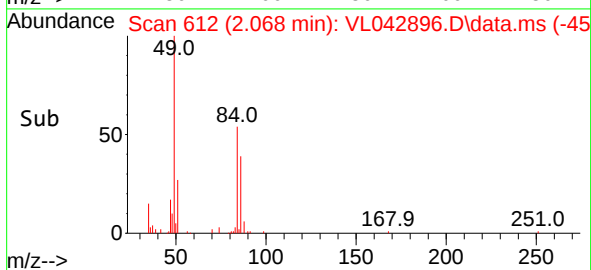
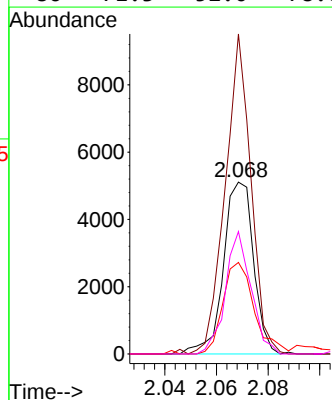
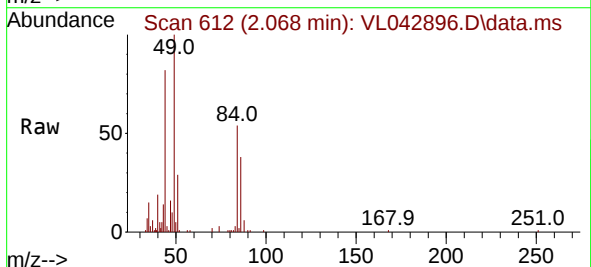
Manual Integrations
APPROVED

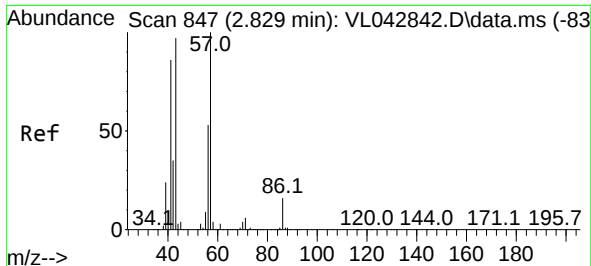
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#20
Methylene Chloride
Concen: 0.613 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

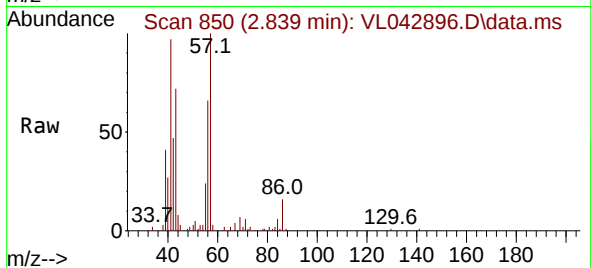
Tgt Ion: 84 Resp: 4141
Ion Ratio Lower Upper
84 100
49 185.0 112.3 168.5#
51 53.3 36.0 54.0
86 71.3 52.0 78.0





#26
Hexane
Concen: 0.519 ppbv
RT: 2.839 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

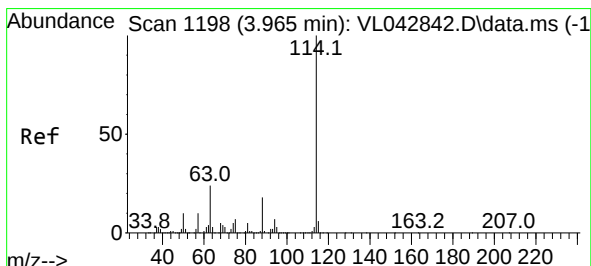
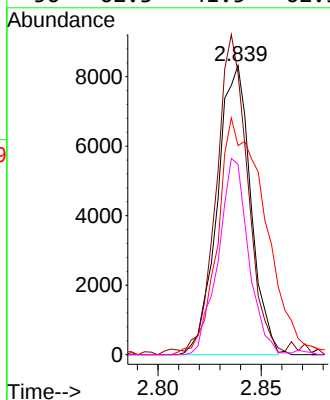
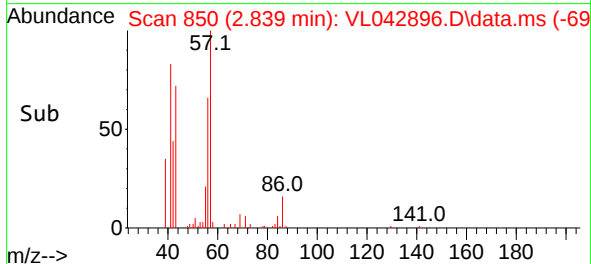
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 57 Resp: 935
Ion Ratio Lower Upper
57 100
41 109.0 68.6 103.0
43 115.8 168.5 252.7
56 62.3 41.5 62.3

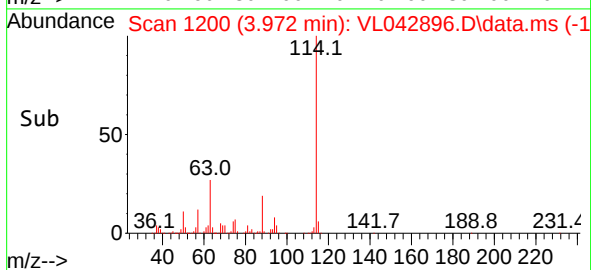
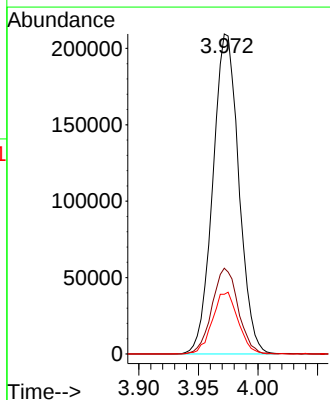
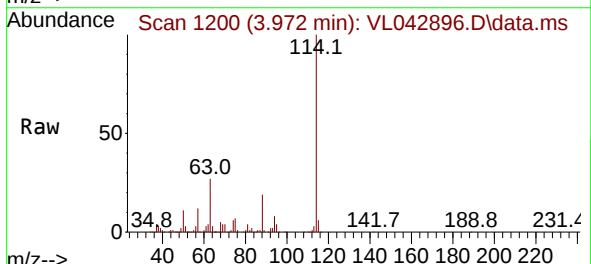
Manual Integrations
APPROVED

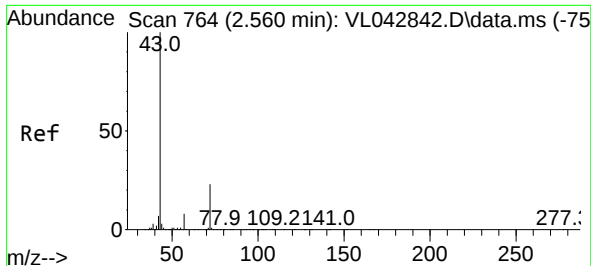
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.006 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

Tgt Ion:114 Resp: 317296
Ion Ratio Lower Upper
114 100
63 27.0 19.7 29.5
88 19.1 14.4 21.6





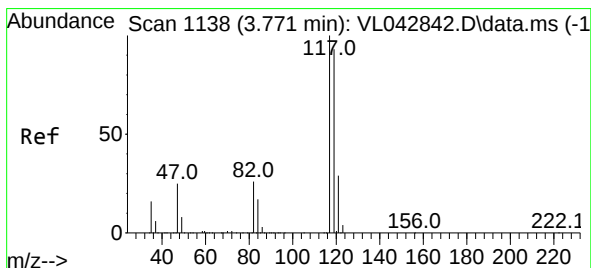
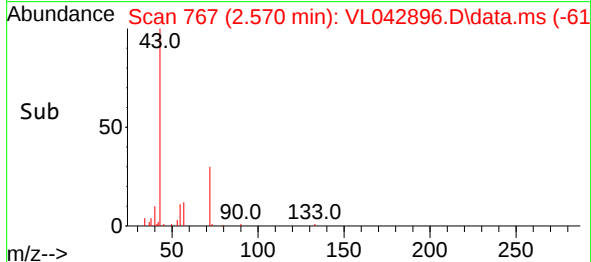
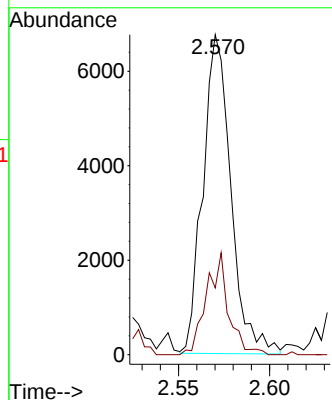
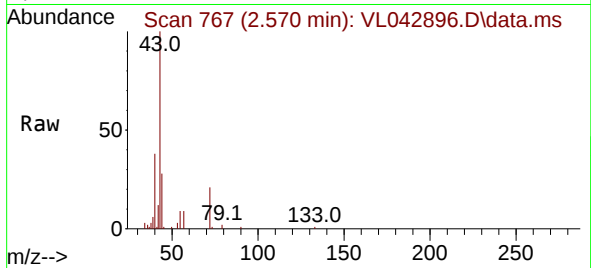
#34
2-Butanone
Concen: 0.336 ppbv
RT: 2.570 min Scan# 710
Delta R.T. 0.010 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 7209
Ion Ratio Lower Upper
43 100
72 25.3 18.6 28.0

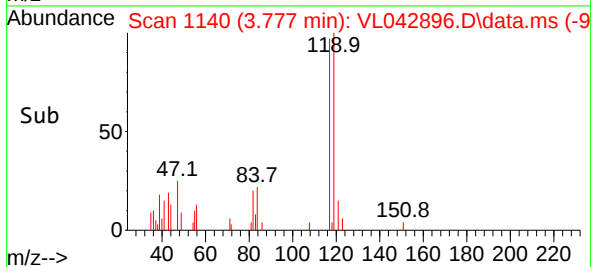
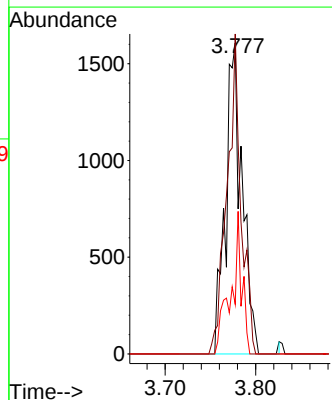
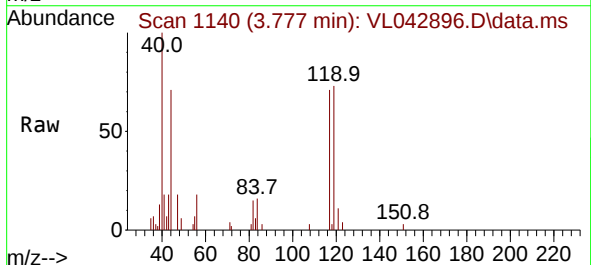
Manual Integrations
APPROVED

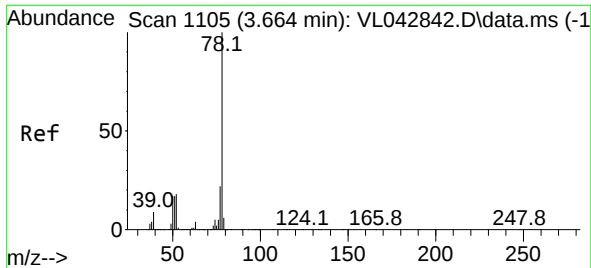
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#35
Carbon Tetrachloride
Concen: 0.093 ppbv m
RT: 3.777 min Scan# 1140
Delta R.T. 0.006 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

Tgt Ion:117 Resp: 2043
Ion Ratio Lower Upper
117 100
119 102.9 74.7 112.1
121 15.9 23.2 34.8#





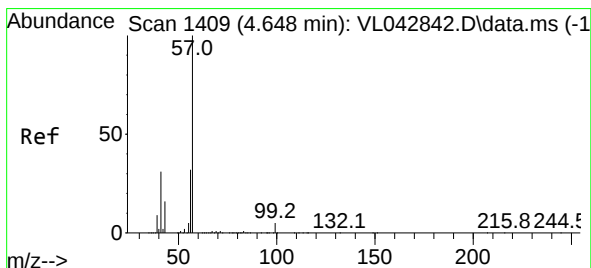
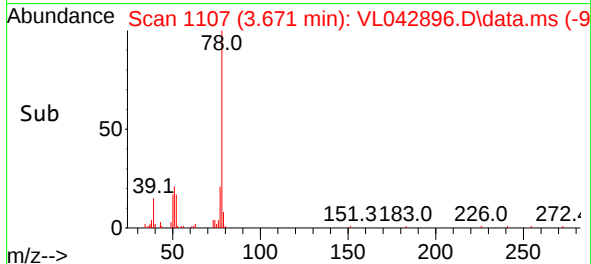
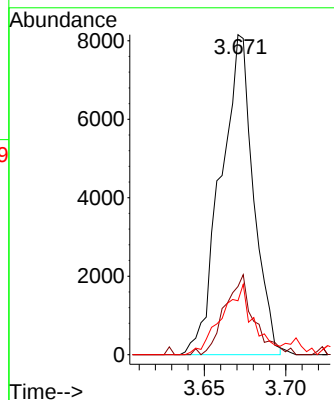
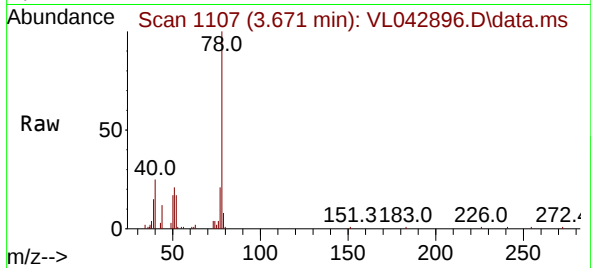
#36
Benzene
Concen: 0.374 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 78 Resp: 11374
Ion Ratio Lower Upper
78 100
77 21.3 17.7 26.5
50 16.8 13.9 20.9

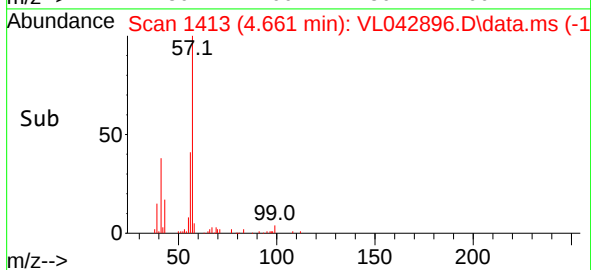
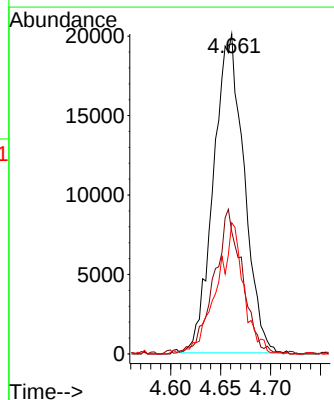
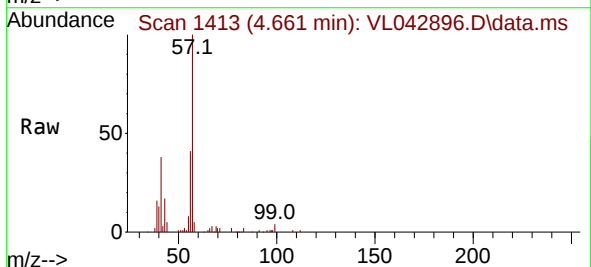
Manual Integrations
APPROVED

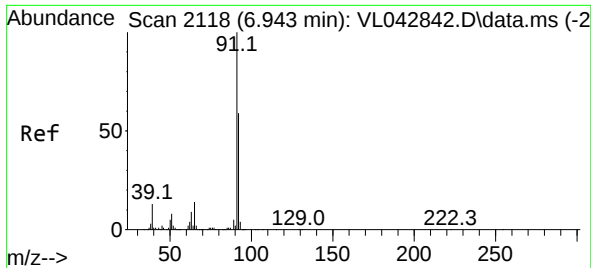
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#44
2,2,4-Trimethylpentane
Concen: 0.825 ppbv
RT: 4.661 min Scan# 1413
Delta R.T. 0.013 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

Tgt Ion: 57 Resp: 42566
Ion Ratio Lower Upper
57 100
41 42.4 24.8 37.2#
56 36.6 25.5 38.3





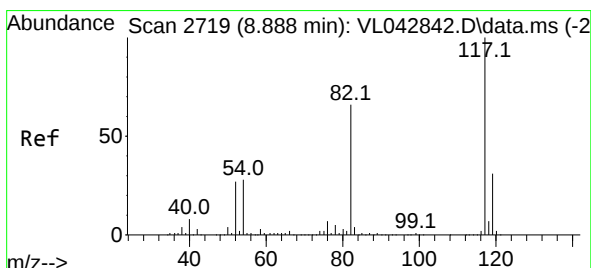
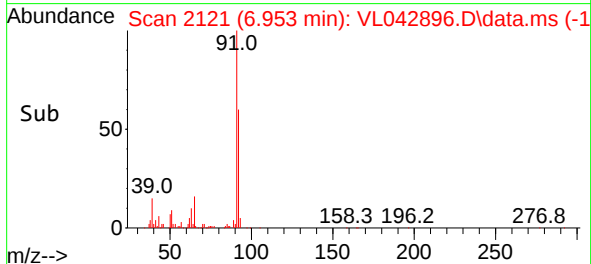
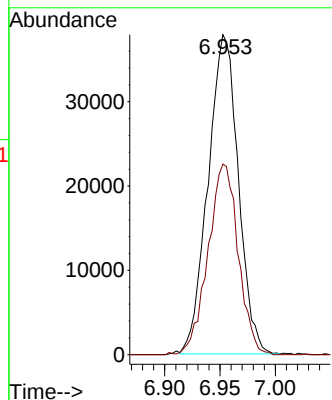
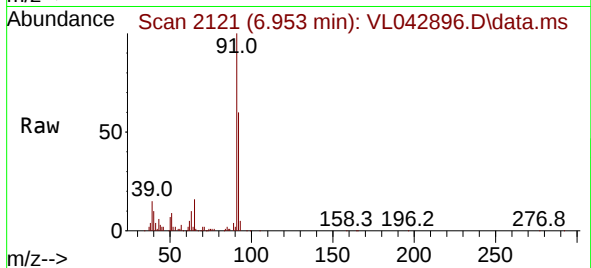
#53
Toluene
Concen: 1.995 ppbv
RT: 6.953 min Scan# 2118
Delta R.T. 0.010 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 72080
Ion Ratio Lower Upper
91 100
92 59.5 47.8 71.6

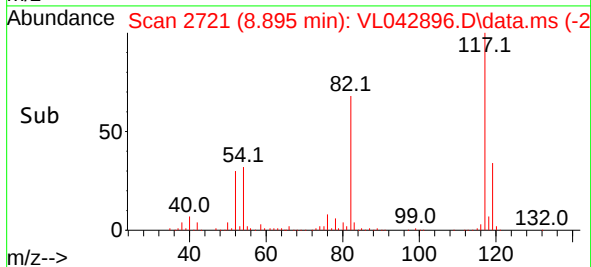
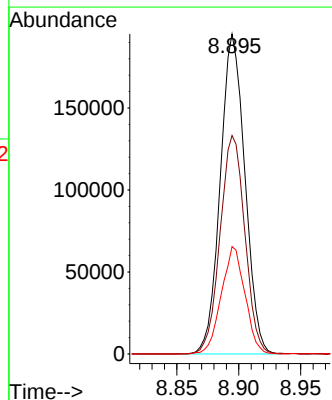
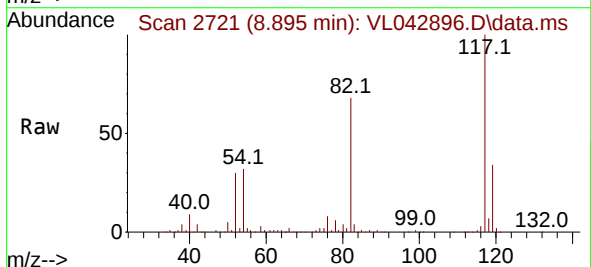
Manual Integrations
APPROVED

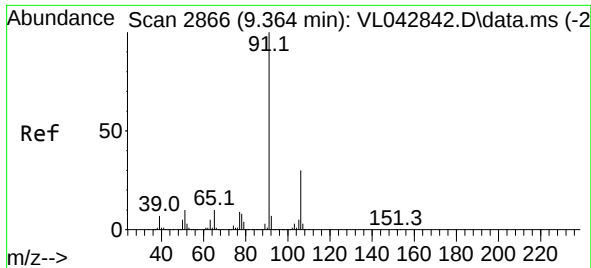
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. 0.006 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

Tgt Ion:117 Resp: 269956
Ion Ratio Lower Upper
117 100
82 68.8 54.6 81.8
119 32.3 25.9 38.9





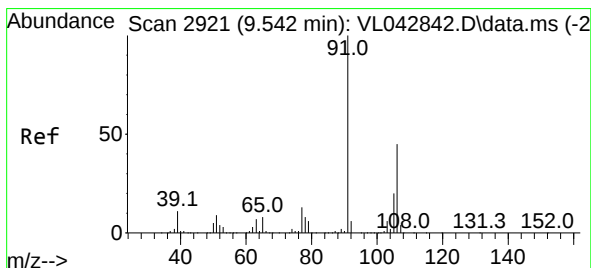
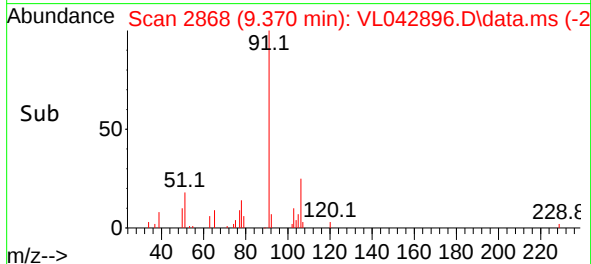
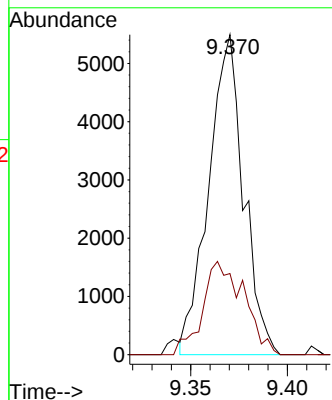
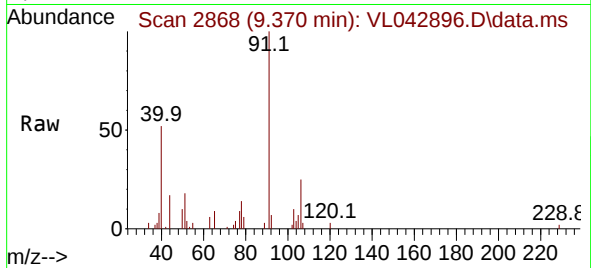
#58
Ethyl Benzene
Concen: 0.144 ppbv
RT: 9.370 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 688
Ion Ratio Lower Upper
91 100
106 25.3 23.9 35.9

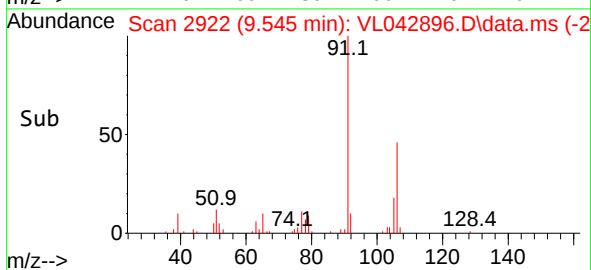
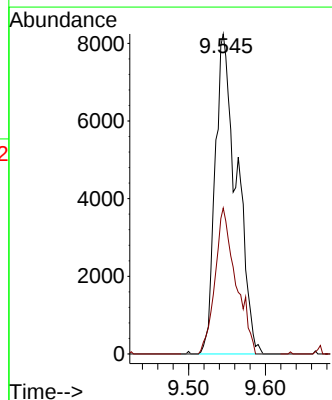
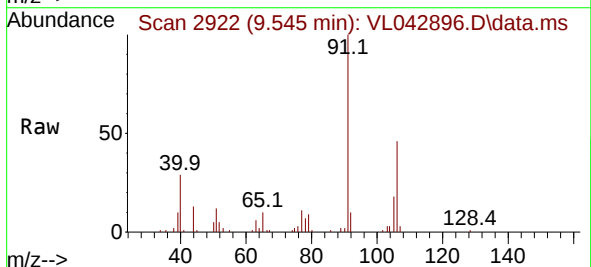
Manual Integrations
APPROVED

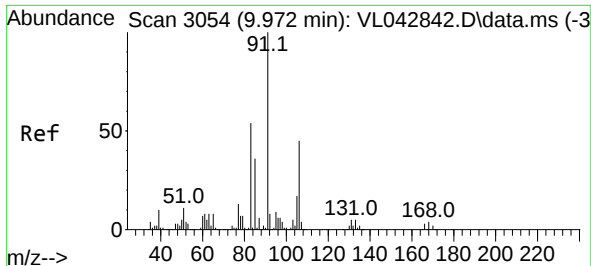
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#59
m/p-Xylene
Concen: 0.431 ppbv m
RT: 9.545 min Scan# 2922
Delta R.T. 0.003 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

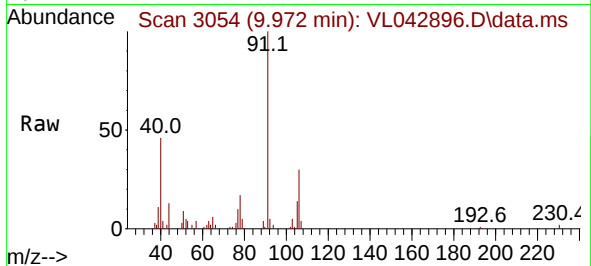
Tgt Ion: 91 Resp: 16076
Ion Ratio Lower Upper
91 100
106 44.0 0.0 0.0#





#60
o-Xylene
Concen: 0.178 ppbv m
RT: 9.972 min Scan# 3054
Delta R.T. -0.000 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

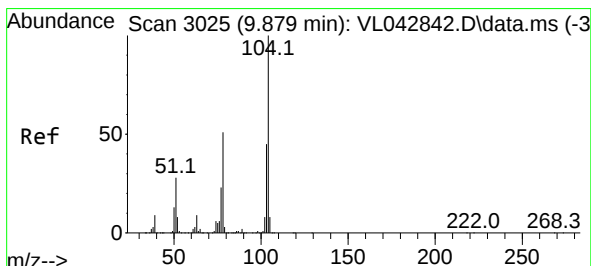
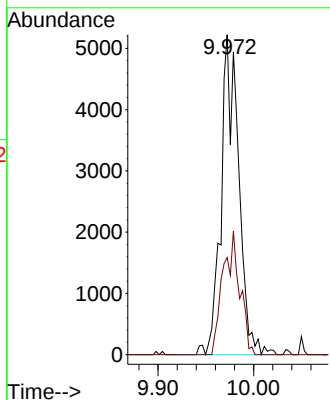
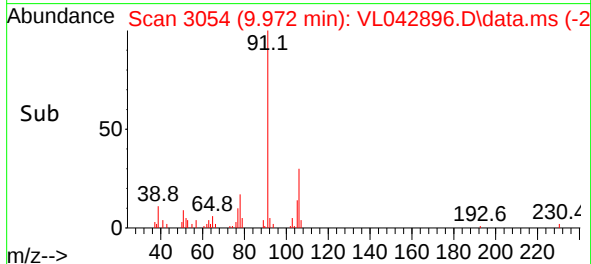
Instrument :
MSVOA_L
ClientSampleId :
OA1



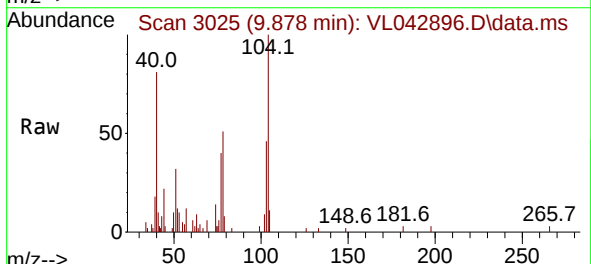
Tgt Ion: 91 Resp: 6702
Ion Ratio Lower Upper
91 100
106 105.5 21.8 65.4

Manual Integrations
APPROVED

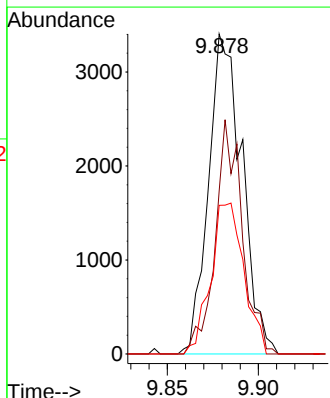
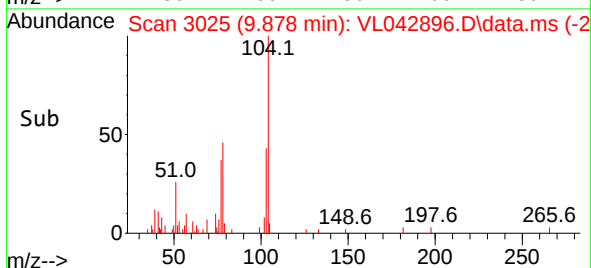
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

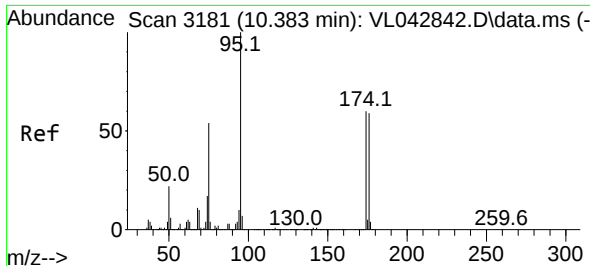


#61
Styrene
Concen: 0.248 ppbv
RT: 9.878 min Scan# 3025
Delta R.T. -0.000 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41



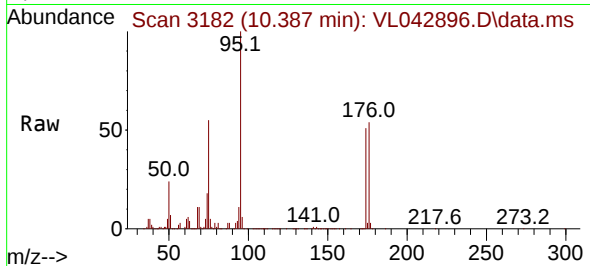
Tgt Ion:104 Resp: 4364
Ion Ratio Lower Upper
104 100
78 58.7 40.6 61.0
103 46.4 37.7 56.5





#68
1-Bromo-4-Fluorobenzene
Concen: 10.495 ppbv
RT: 10.387 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41

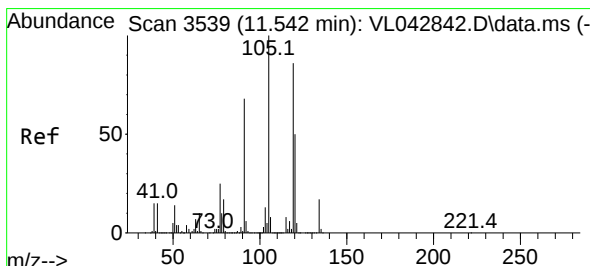
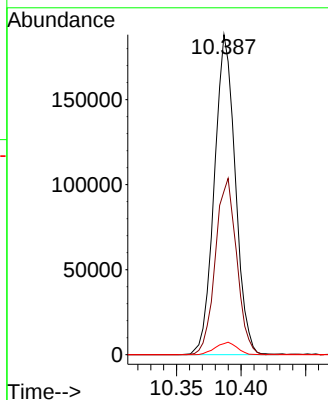
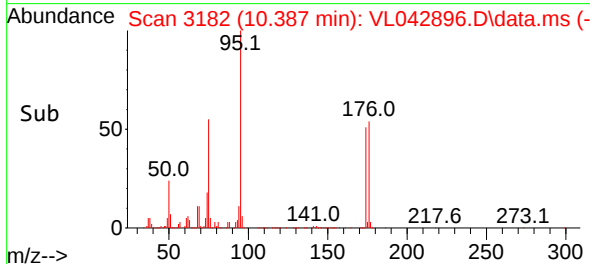
Instrument :
MSVOA_L
ClientSampleId :
OA1



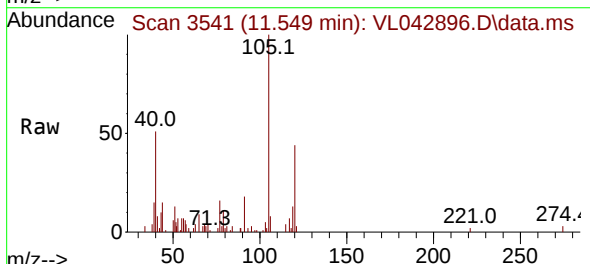
Tgt Ion: 95 Resp: 21248
Ion Ratio Lower Upper
95 100
174 56.3 48.4 72.6
175 4.0 3.8 5.8

Manual Integrations
APPROVED

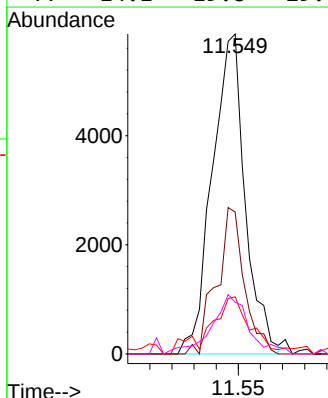
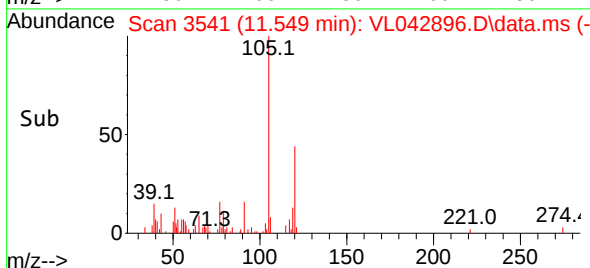
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.143 ppbv
RT: 11.549 min Scan# 3541
Delta R.T. 0.006 min
Lab File: VL042896.D
Acq: 04 Sep 2025 18:41



Tgt Ion:105 Resp: 6066
Ion Ratio Lower Upper
105 100
120 44.4 39.8 59.6
91 16.4 54.2 81.4#
77 14.1 19.8 29.6#



Report of Analysis

Client:	GFE LLC	Date Collected:	08/29/25
Project:	118 Fulton Ave, GARDENCITYPARK,NY	Date Received:	09/02/25
Client Sample ID:	IA1	SDG No.:	Q3000
Lab Sample ID:	Q3000-02	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
VL042892.D	1		09/04/25 16:16	VL090425

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	0.11	0.35	J	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	0.25	0.94	J	0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	0.050	0.34		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	0.23	0.81	J	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	123000		2.797			
540-36-3	1,4-Difluorobenzene	330000		3.972			
3114-55-4	Chlorobenzene-d5	285000		8.895			

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\VL090425\
 Data File : VL042892.D
 Acq On : 04 Sep 2025 16:16
 Operator : SY/MD
 Sample : Q3000-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 01:23:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	123311	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	330308	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	285076	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	217596	10.178	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	8318	0.460	ppbv	95
3) Chlorodifluoromethane	1.479	51	19172	0.960	ppbv	95
4) Chloromethane	1.534	50	3412	0.468	ppbv	93
9) Propene	1.489	41	3042	0.353	ppbv #	17
11) Trichlorofluoromethane	1.881	101	4930	0.276	ppbv	97
13) Ethanol	1.725	45	12082	15.317	ppbv	97
15) Acetone	1.842	43	71081	4.358	ppbv	99
19) Isopropyl Alcohol	1.894	45	8455	0.868	ppbv #	1
20) Methylene Chloride	2.068	84	5029	0.736	ppbv #	86
26) Hexane	2.832	57	4193	0.230	ppbv #	50
34) 2-Butanone	2.570	43	6686	0.300	ppbv	97
35) Carbon Tetrachloride	3.774	117	2174m	0.095	ppbv	
36) Benzene	3.671	78	3509m	0.111	ppbv	
52) Tetrachloroethene	8.247	164	608m	0.053	ppbv	
53) Toluene	6.953	91	9569m	0.254	ppbv	
59) m/p-Xylene	9.539	91	5125m	0.130	ppbv	

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

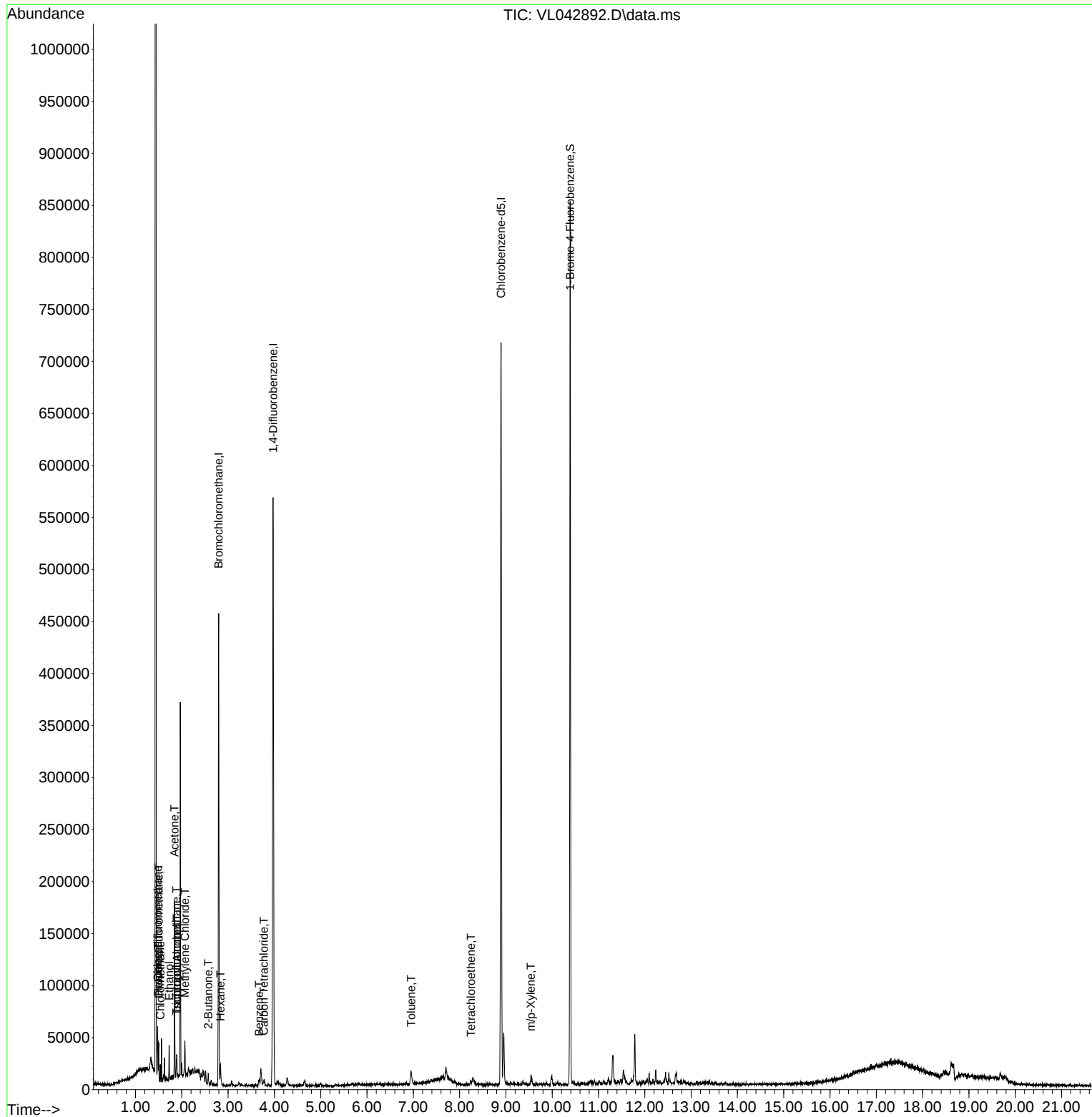
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
Data File : VL042892.D
Acq On : 04 Sep 2025 16:16
Operator : SY/MD
Sample : Q3000-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

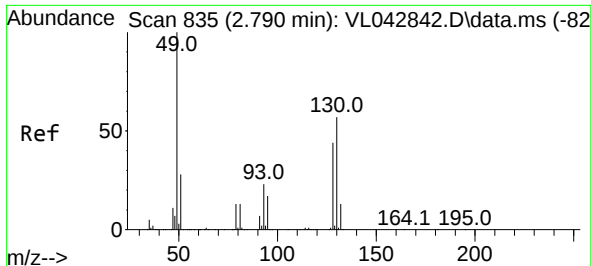
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Sep 05 01:23:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

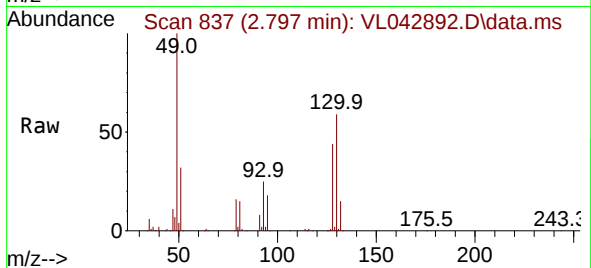
Reviewed By : Semsettin Yesilyurt 09/05/2025
Supervised By : Mahesh Dadoda 09/05/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 811
Delta R.T. 0.007 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

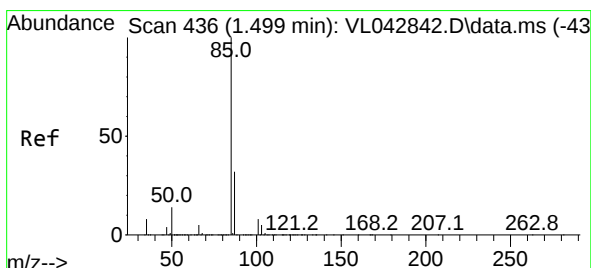
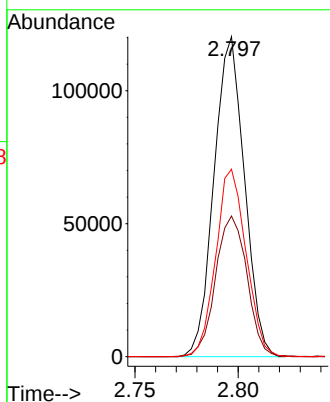
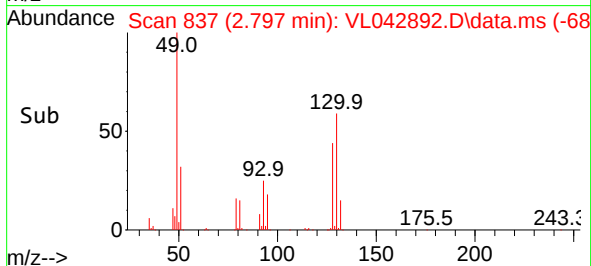
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 12331
Ion Ratio Lower Upper
49 100
128 45.3 23.7 71.1
130 58.5 30.6 91.6

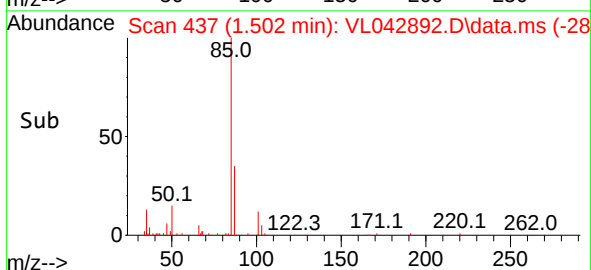
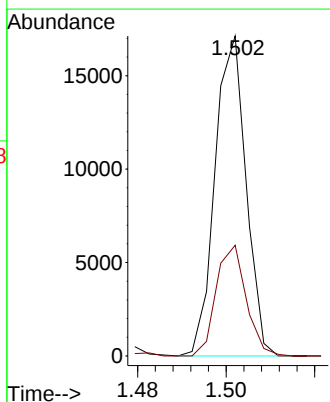
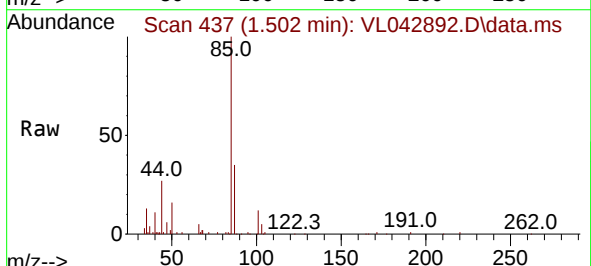
Manual Integrations
APPROVED

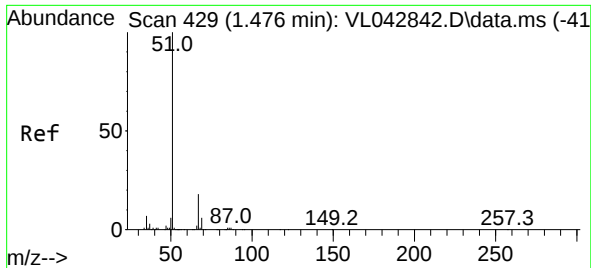
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#2
Dichlorodifluoromethane
Concen: 0.460 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

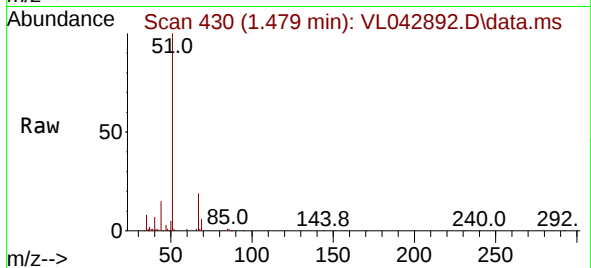
Tgt Ion: 85 Resp: 8318
Ion Ratio Lower Upper
85 100
87 34.6 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.960 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

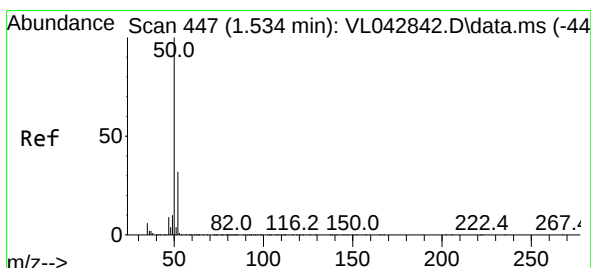
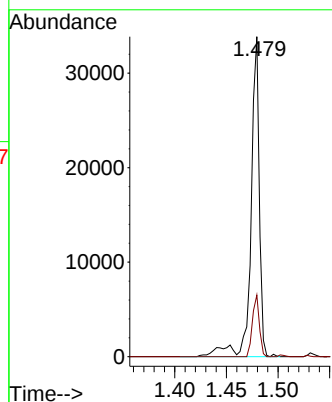
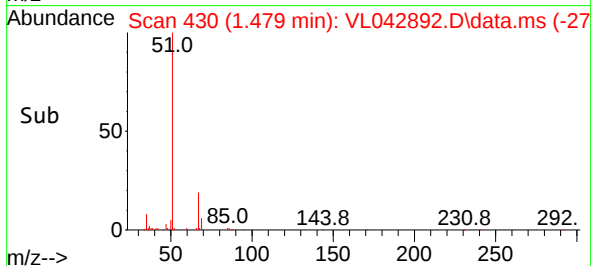
Instrument :
MSVOA_L
ClientSampleId :
IA1



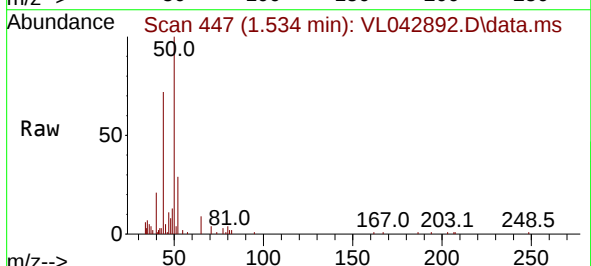
Tgt Ion: 51 Resp: 1917
Ion Ratio Lower Upper
51 100
67 16.3 14.9 22.3

Manual Integrations
APPROVED

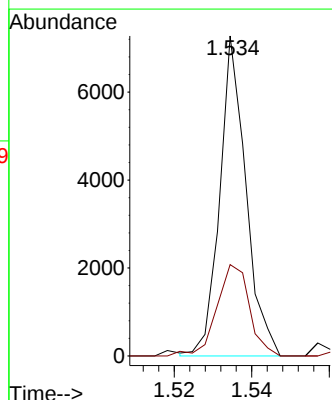
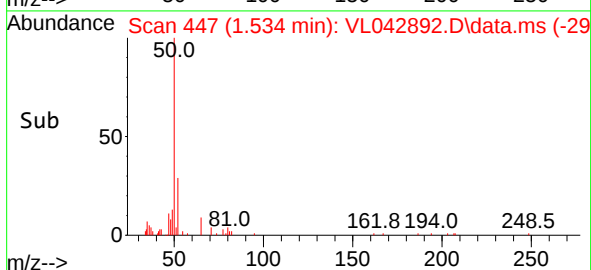
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

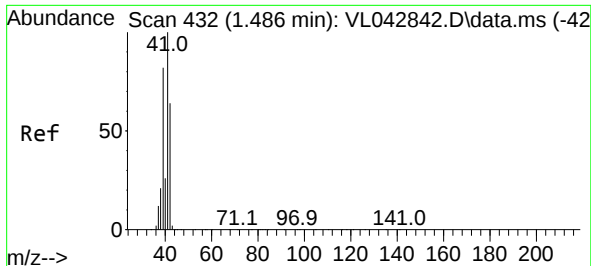


#4
Chloromethane
Concen: 0.468 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.000 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16



Tgt Ion: 50 Resp: 3412
Ion Ratio Lower Upper
50 100
52 28.5 25.9 38.9





#9

Propene

Concen: 0.353 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042892.D

Acq: 04 Sep 2025 16:16

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 304

Ion Ratio Lower Upper

41 100

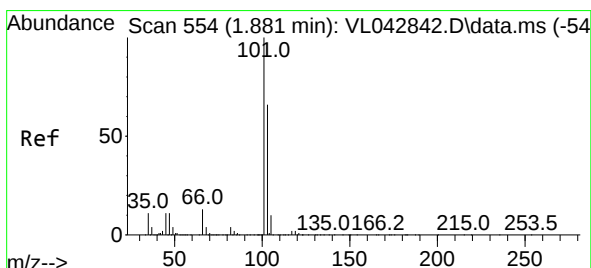
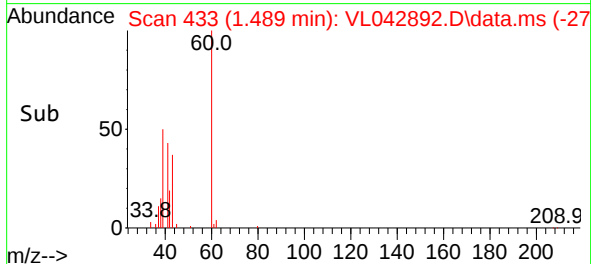
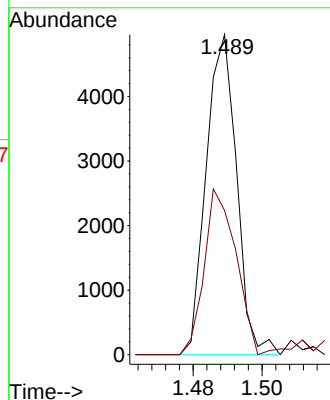
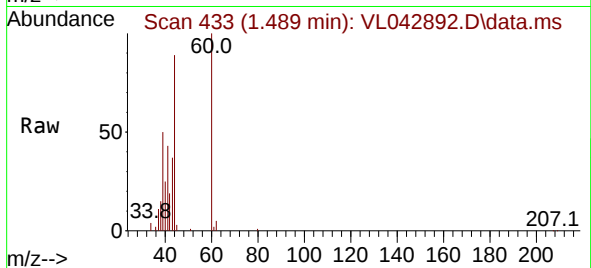
42 0.0 53.0 79.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#11

Trichlorofluoromethane

Concen: 0.276 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.000 min

Lab File: VL042892.D

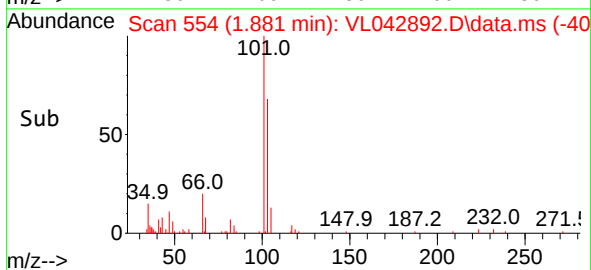
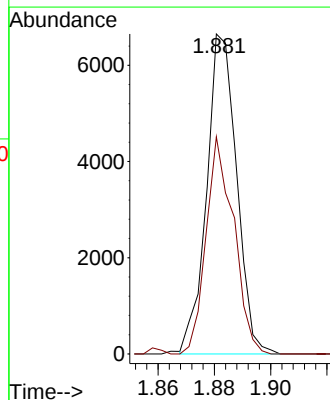
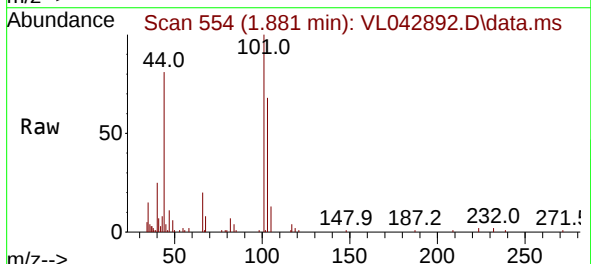
Acq: 04 Sep 2025 16:16

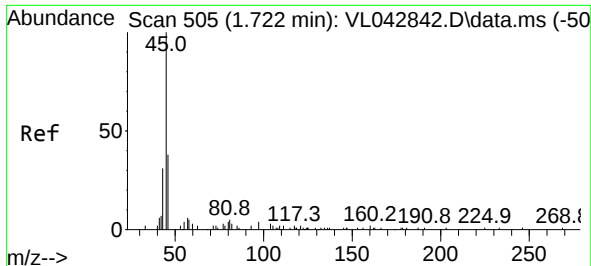
Tgt Ion:101 Resp: 4930

Ion Ratio Lower Upper

101 100

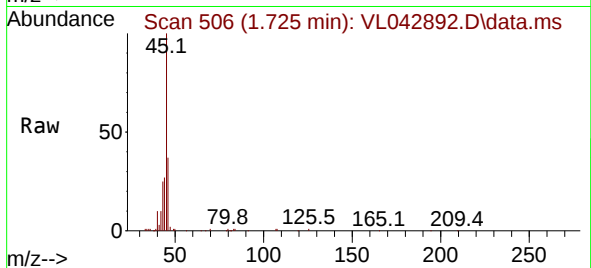
103 67.9 52.5 78.7





#13
Ethanol
Concen: 15.317 ppbv
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

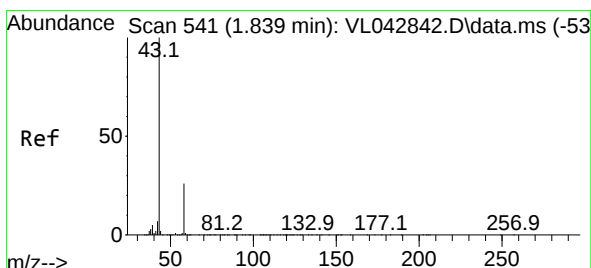
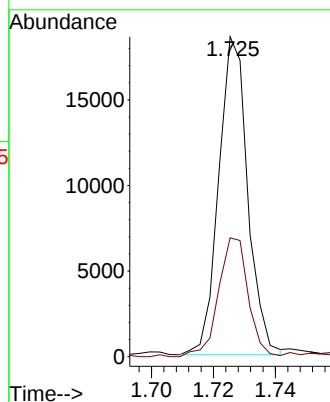
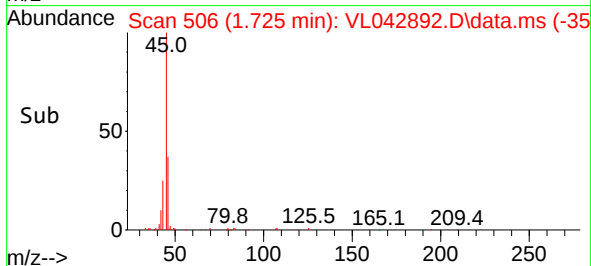
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 12081
Ion Ratio Lower Upper
45 100
46 41.6 17.5 69.9

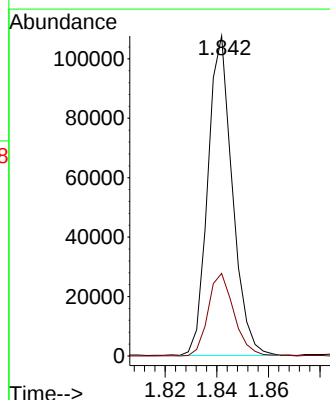
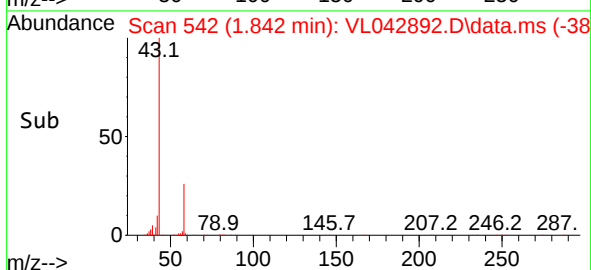
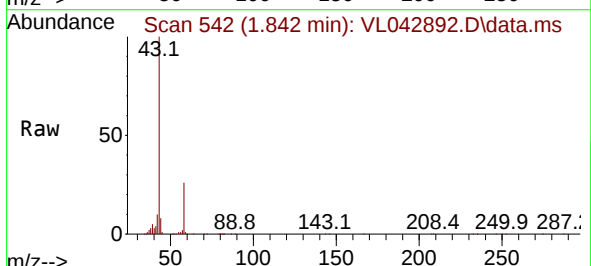
Manual Integrations
APPROVED

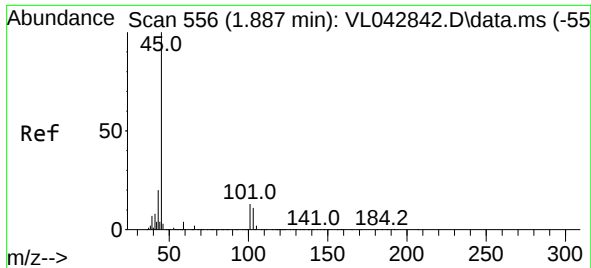
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#15
Acetone
Concen: 4.358 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.003 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

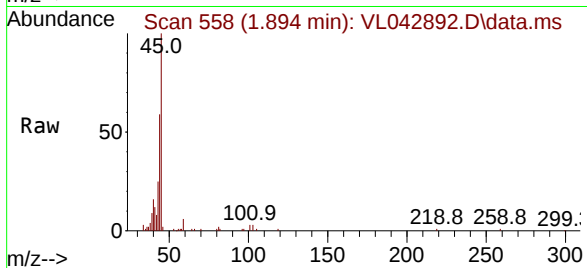
Tgt Ion: 43 Resp: 71081
Ion Ratio Lower Upper
43 100
58 27.4 22.4 33.6





#19
Isopropyl Alcohol
Concen: 0.868 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

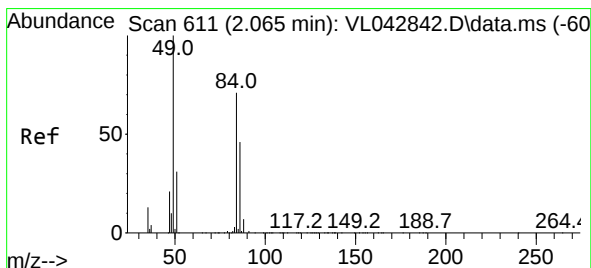
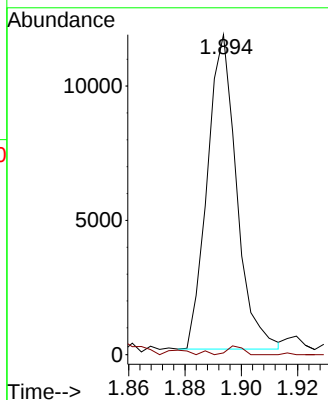
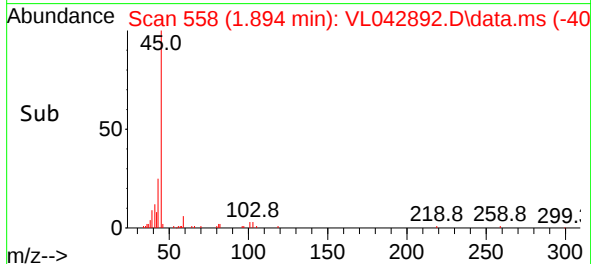
Instrument :
MSVOA_L
ClientSampleId :
IA1



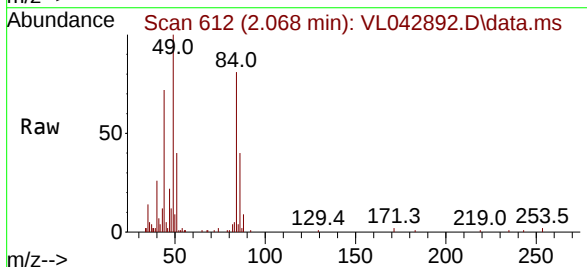
Tgt Ion: 45 Resp: 845
Ion Ratio Lower Upper
45 100
58 230.6 32.7 49.1

Manual Integrations
APPROVED

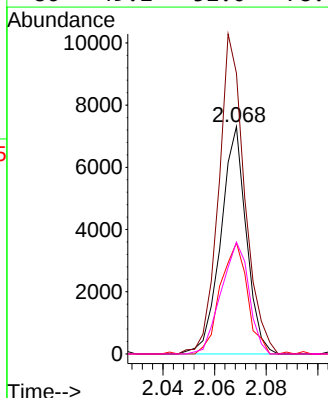
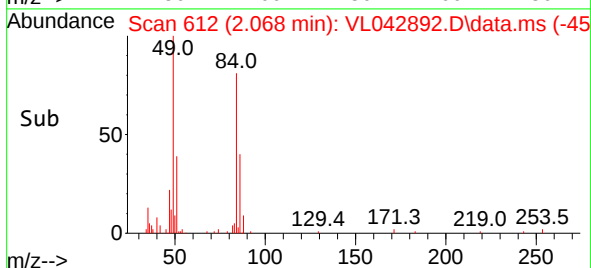
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

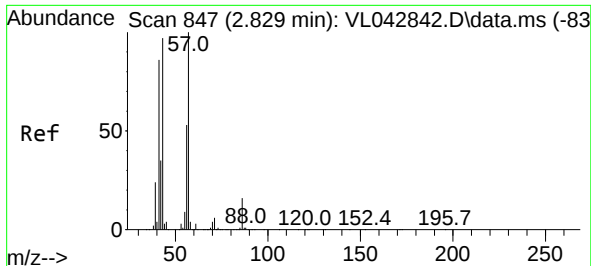


#20
Methylene Chloride
Concen: 0.736 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16



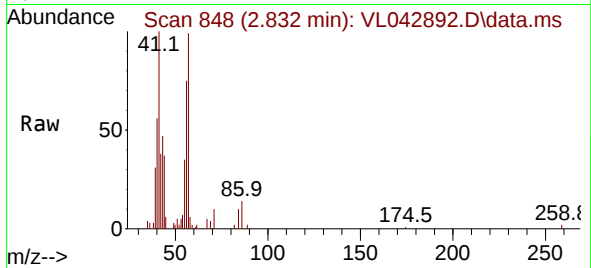
Tgt Ion: 84 Resp: 5029
Ion Ratio Lower Upper
84 100
49 123.5 112.3 168.5
51 48.9 36.0 54.0
86 49.2 52.0 78.0





#26
Hexane
Concen: 0.230 ppbv
RT: 2.832 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

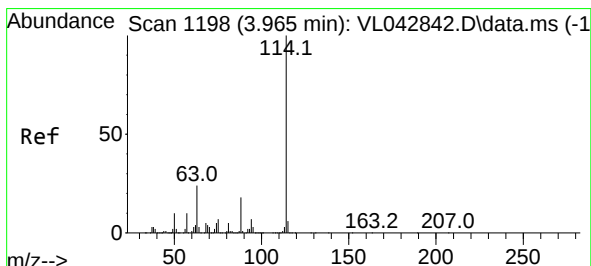
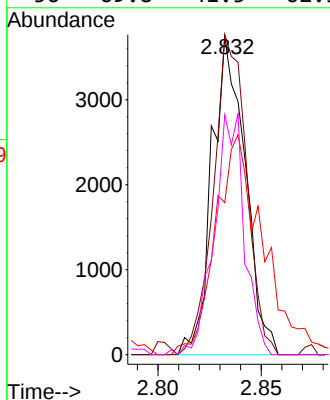
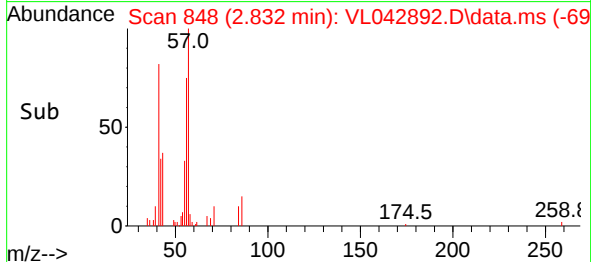
Instrument :
MSVOA_L
ClientSampleId :
IA1



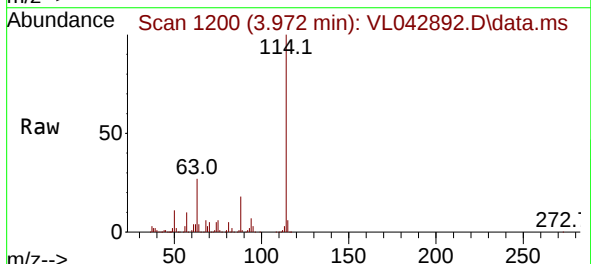
Tgt Ion: 57 Resp: 419
Ion Ratio Lower Upper
57 100
41 102.2 68.6 103.0
43 102.3 168.5 252.7
56 69.8 41.5 62.3

Manual Integrations
APPROVED

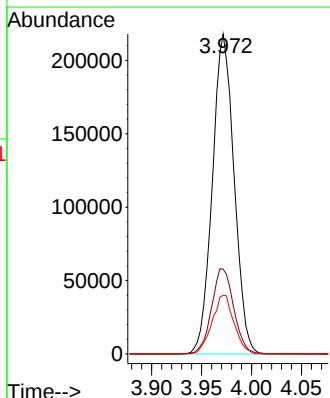
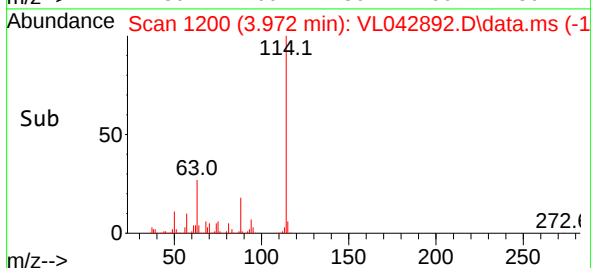
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

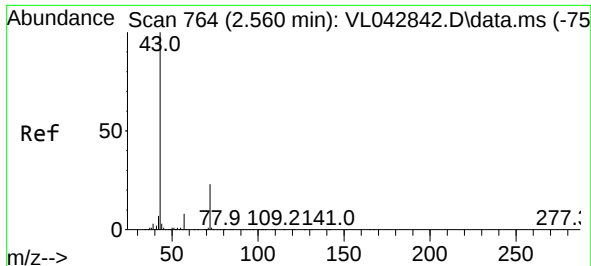


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.006 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16



Tgt Ion:114 Resp: 330308
Ion Ratio Lower Upper
114 100
63 27.2 19.7 29.5
88 18.5 14.4 21.6





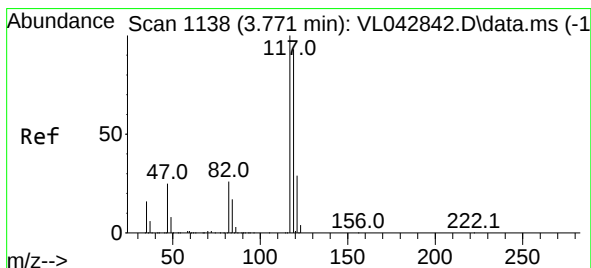
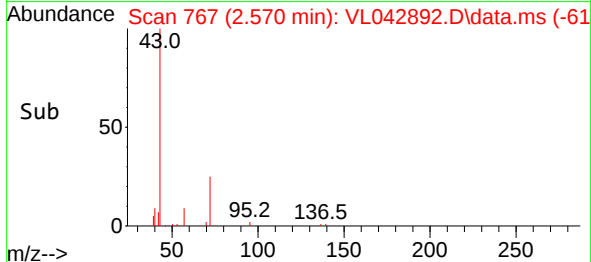
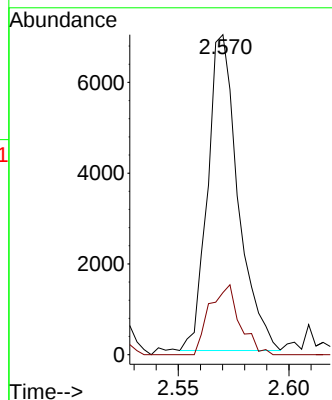
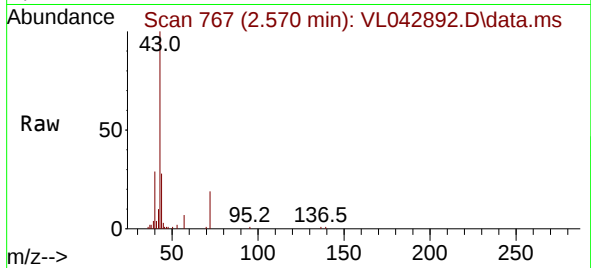
#34
2-Butanone
Concen: 0.300 ppbv
RT: 2.570 min Scan# 764
Delta R.T. 0.010 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 6680
Ion Ratio Lower Upper
43 100
72 21.8 18.6 28.0

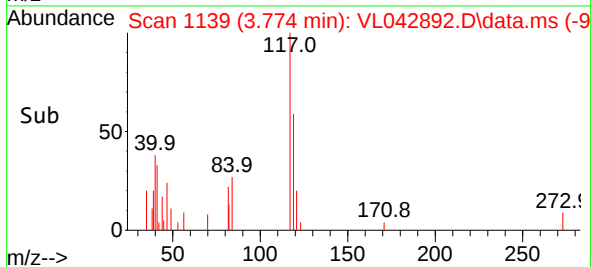
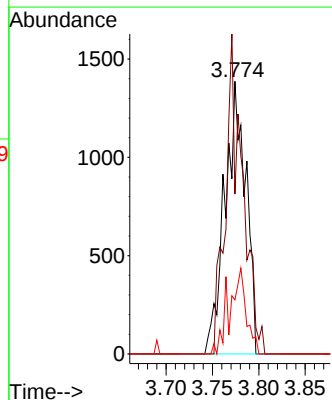
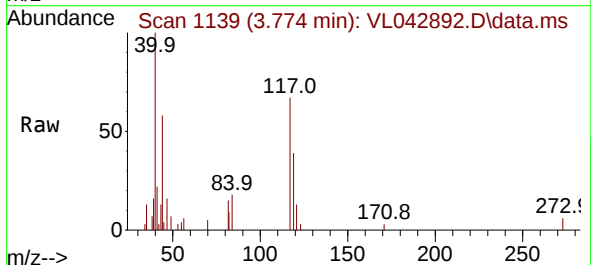
Manual Integrations
APPROVED

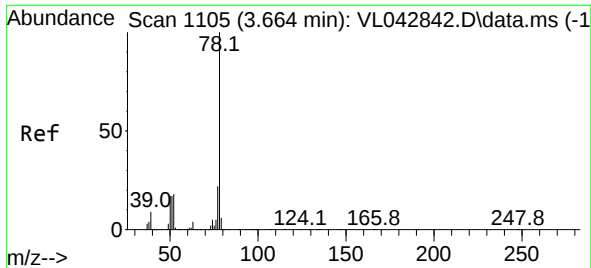
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#35
Carbon Tetrachloride
Concen: 0.095 ppbv m
RT: 3.774 min Scan# 1139
Delta R.T. 0.003 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

Tgt Ion:117 Resp: 2174
Ion Ratio Lower Upper
117 100
119 58.6 74.7 112.1#
121 19.8 23.2 34.8#





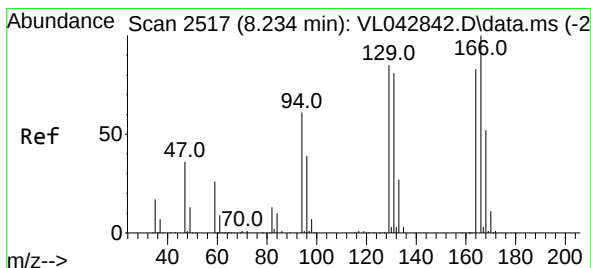
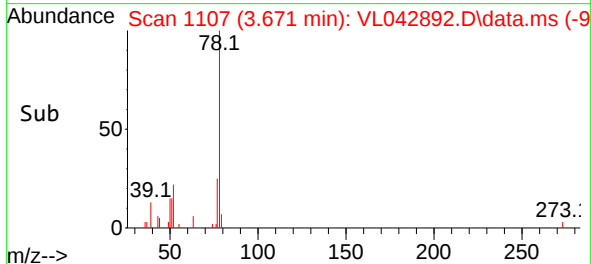
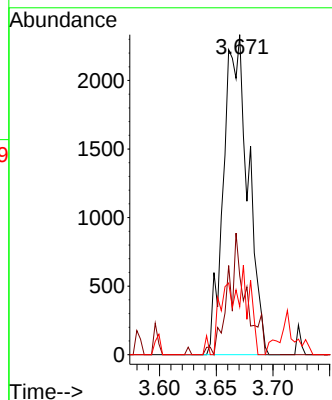
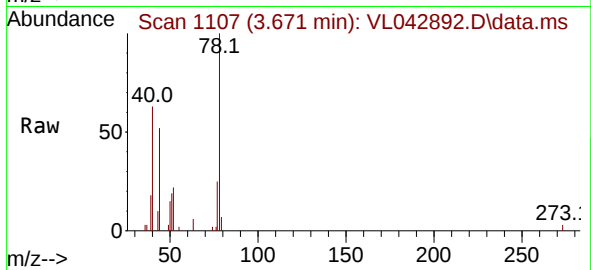
#36
Benzene
Concen: 0.111 ppbv m
RT: 3.671 min Scan# 1107
Delta R.T. 0.006 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 78 Resp: 3509
Ion Ratio Lower Upper
78 100
77 24.7 17.7 26.5
50 15.0 13.9 20.9

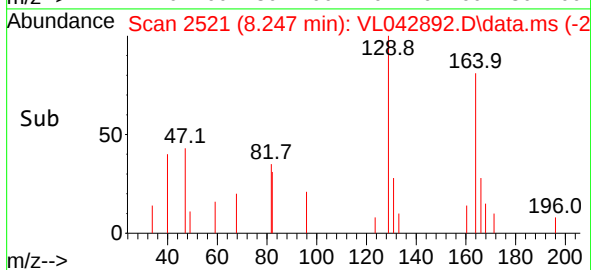
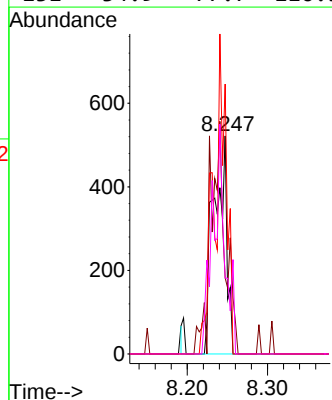
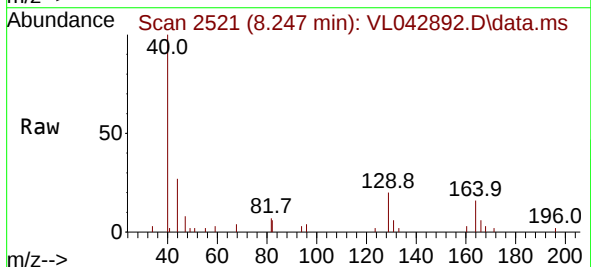
Manual Integrations
APPROVED

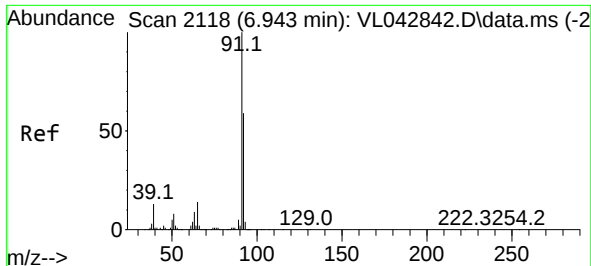
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#52
Tetrachloroethene
Concen: 0.053 ppbv m
RT: 8.247 min Scan# 2521
Delta R.T. 0.013 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

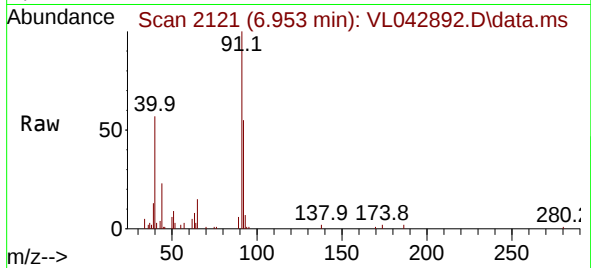
Tgt Ion:164 Resp: 608
Ion Ratio Lower Upper
164 100
166 34.9 96.5 144.7#
129 123.8 81.8 122.6#
131 34.9 77.7 116.5#





#53
Toluene
Concen: 0.254 ppbv m
RT: 6.953 min Scan# 2118
Delta R.T. 0.010 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

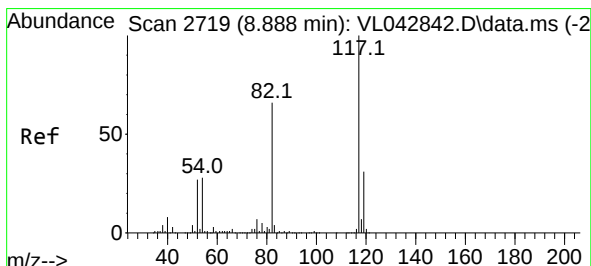
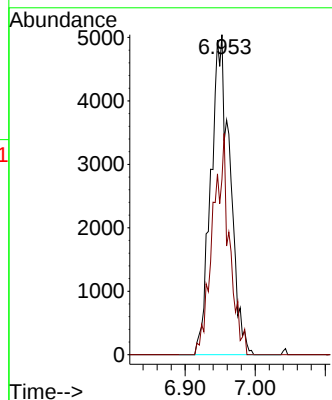
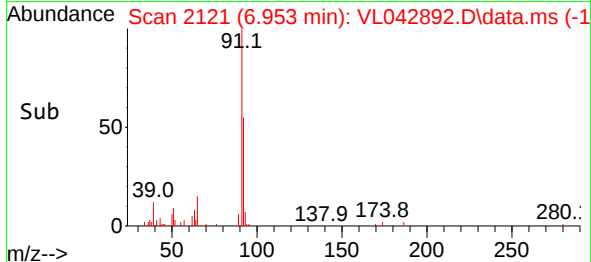
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 91 Resp: 956
Ion Ratio Lower Upper
91 100
92 0.0 47.8 71.6

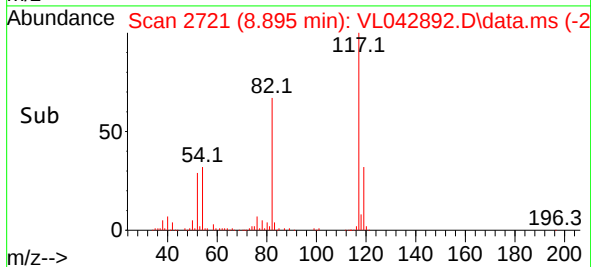
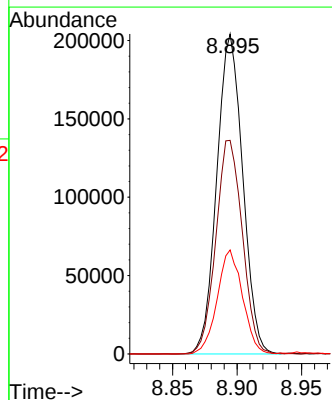
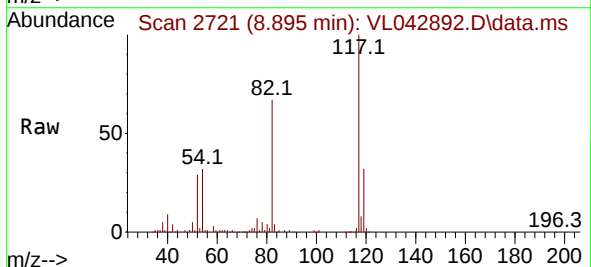
Manual Integrations
APPROVED

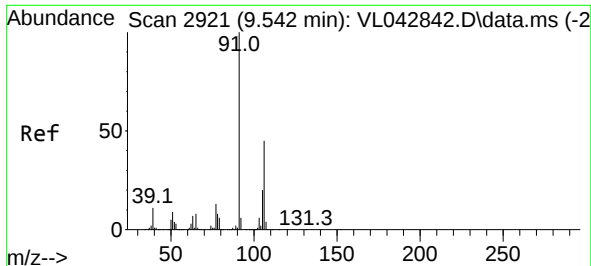
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 2721
Delta R.T. 0.006 min
Lab File: VL042892.D
Acq: 04 Sep 2025 16:16

Tgt Ion:117 Resp: 285076
Ion Ratio Lower Upper
117 100
82 68.2 54.6 81.8
119 31.8 25.9 38.9





#59

m/p-Xylene

Concen: 0.130 ppbv m

RT: 9.539 min Scan# 2921

Delta R.T. -0.003 min

Lab File: VL042892.D

Acq: 04 Sep 2025 16:16

Instrument :

MSVOA_L

ClientSampleId :

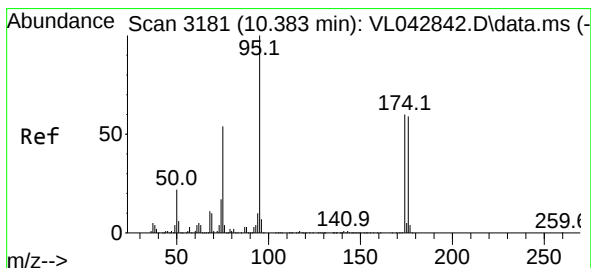
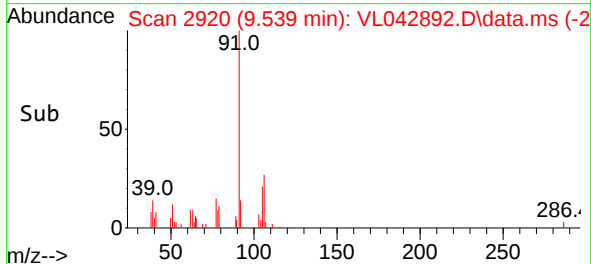
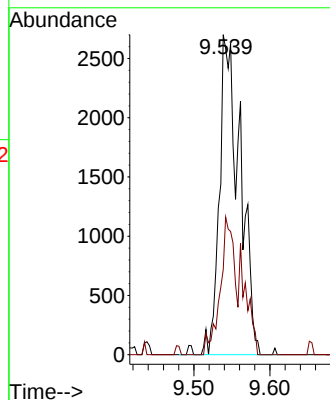
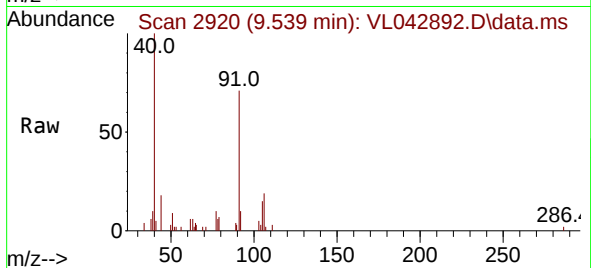
IA1

Tgt Ion: 91 Resp: 512
 Ion Ratio Lower Upper
 91 100
 106 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.178 ppbv

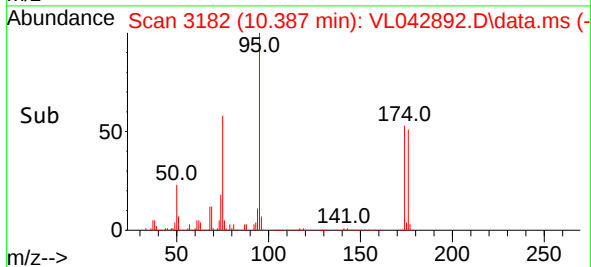
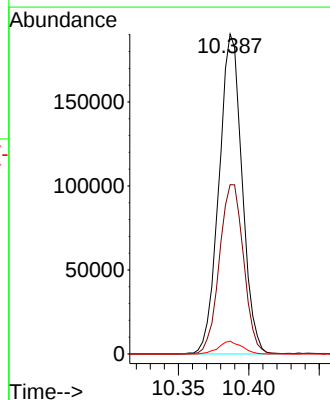
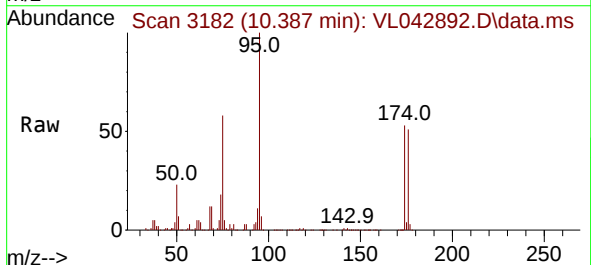
RT: 10.387 min Scan# 3182

Delta R.T. 0.003 min

Lab File: VL042892.D

Acq: 04 Sep 2025 16:16

Tgt Ion: 95 Resp: 217596
 Ion Ratio Lower Upper
 95 100
 174 55.5 48.4 72.6
 175 4.0 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	08/29/25
Project:	118 Fulton Ave, GARDENCITYPARK,NY	Date Received:	09/02/25
Client Sample ID:	IA2	SDG No.:	Q3000
Lab Sample ID:	Q3000-03	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
VL042894.D	1		09/04/25 17:29	VL090425

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	0.15	0.48	J	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	0.37	1.39	J	0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	0.060	0.41		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	0.29	1.02	J	0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	124000		2.8			
540-36-3	1,4-Difluorobenzene	330000		3.978			
3114-55-4	Chlorobenzene-d5	278000		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\VL090425\
 Data File : VL042894.D
 Acq On : 04 Sep 2025 17:29
 Operator : SY/MD
 Sample : Q3000-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 01:24:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	124375	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	330230	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.901	117	278452	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	215513	10.320	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	8606	0.472	ppbv	97
3) Chlorodifluoromethane	1.479	51	16901	0.839	ppbv	97
4) Chloromethane	1.538	50	5706	0.776	ppbv	94
9) Propene	1.489	41	4649	0.534	ppbv	88
11) Trichlorofluoromethane	1.887	101	4904	0.273	ppbv	89
13) Ethanol	1.729	45	165456	207.960	ppbv	90
15) Acetone	1.842	43	100830	6.129	ppbv	99
17) tert-Butyl alcohol	2.052	59	2549m	0.131	ppbv	
19) Isopropyl Alcohol	1.897	45	10775	1.096	ppbv #	1
20) Methylene Chloride	2.072	84	5980	0.868	ppbv	99
26) Hexane	2.842	57	5276	0.287	ppbv #	54
34) 2-Butanone	2.573	43	12924	0.580	ppbv	99
35) Carbon Tetrachloride	3.781	117	2240	0.098	ppbv #	57
36) Benzene	3.677	78	4724m	0.149	ppbv	
44) 2,2,4-Trimethylpentane	4.667	57	7094m	0.132	ppbv	
52) Tetrachloroethene	8.237	164	691m	0.060	ppbv	
53) Toluene	6.959	91	13707	0.365	ppbv	94
59) m/p-Xylene	9.548	91	6836m	0.177	ppbv	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
Data File : VL042894.D
Acq On : 04 Sep 2025 17:29
Operator : SY/MD
Sample : Q3000-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

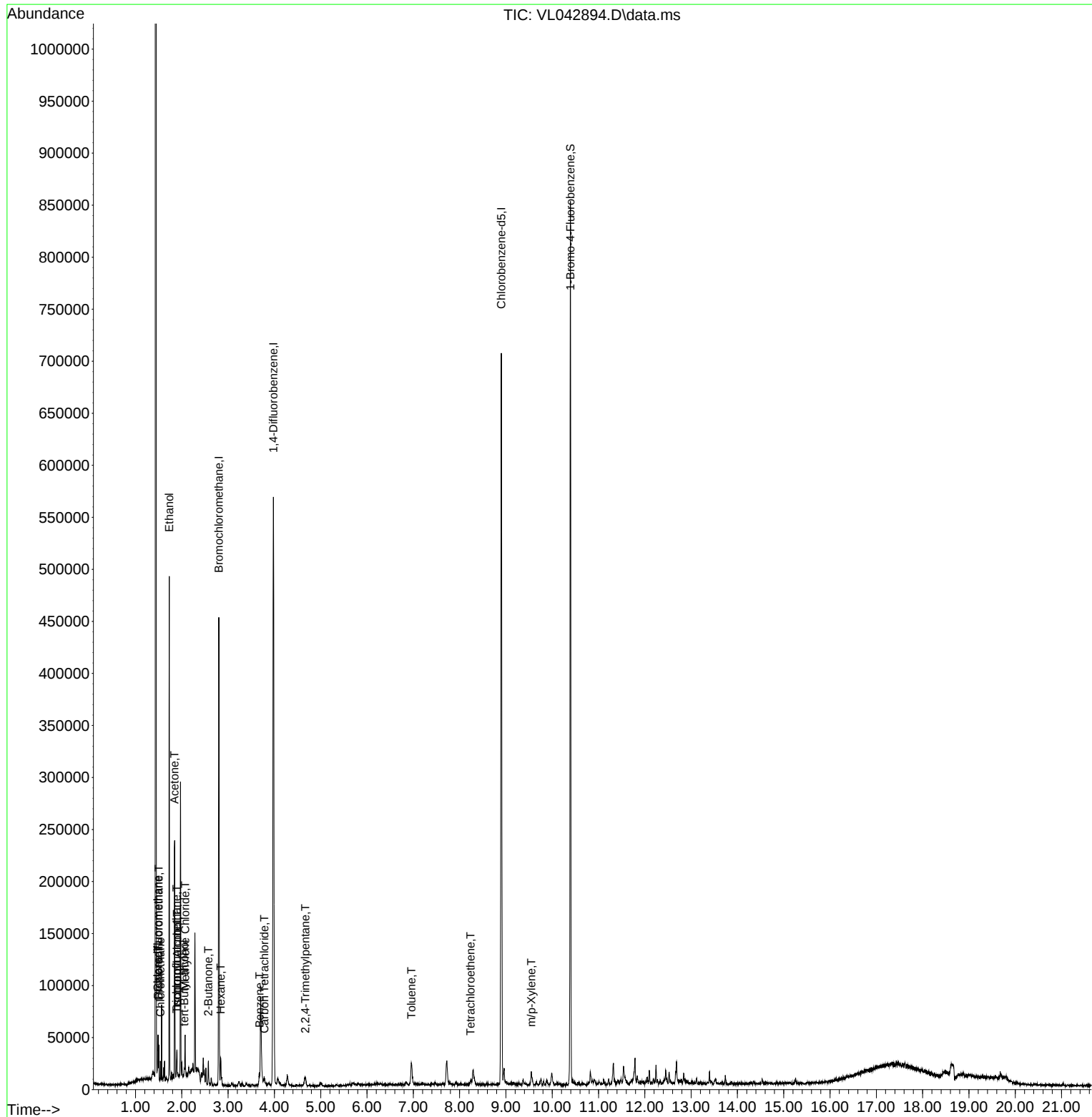
Quant Time: Sep 05 01:24:18 2025

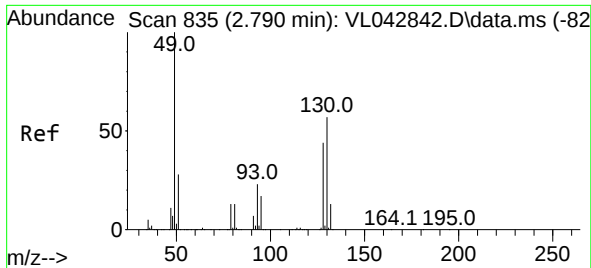
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration





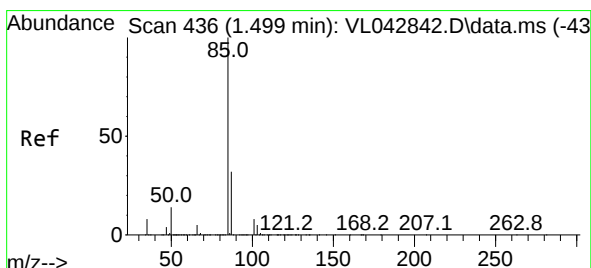
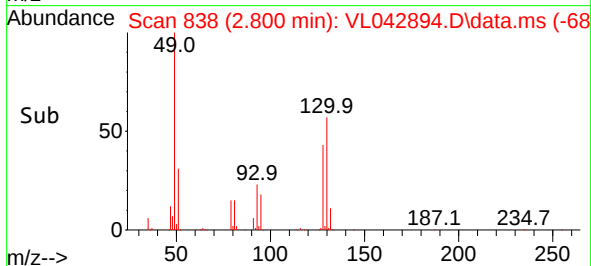
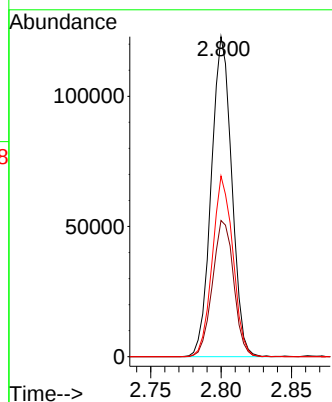
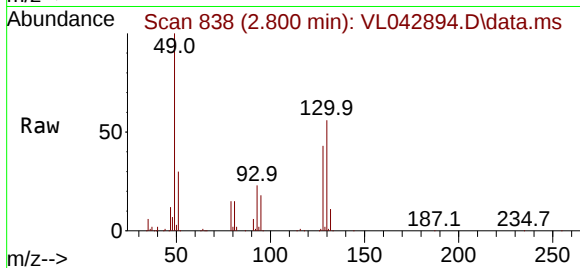
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 835
Delta R.T. 0.010 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 49 Resp: 124375
Ion Ratio Lower Upper
49 100
128 44.0 23.7 71.1
130 56.6 30.6 91.6

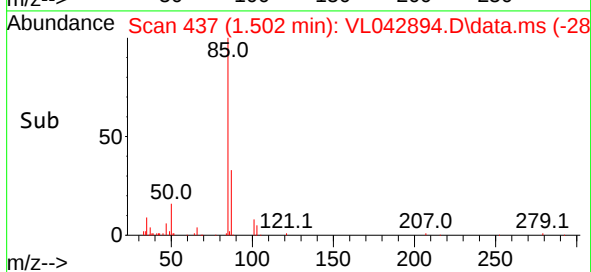
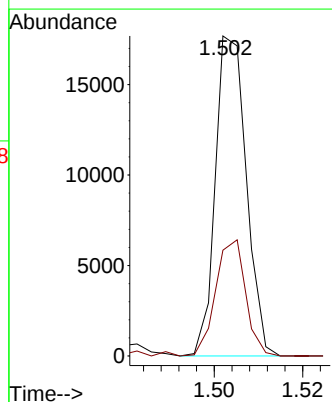
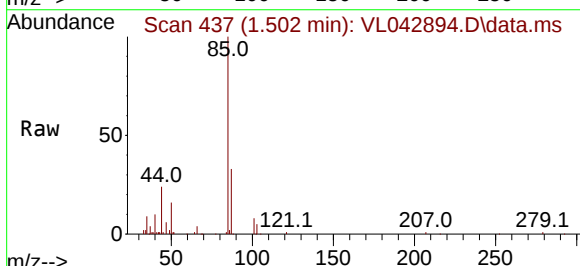
Manual Integrations
APPROVED

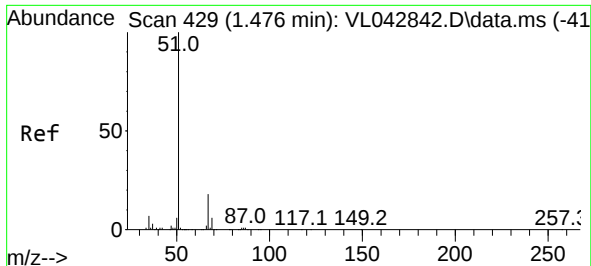
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#2
Dichlorodifluoromethane
Concen: 0.472 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.003 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

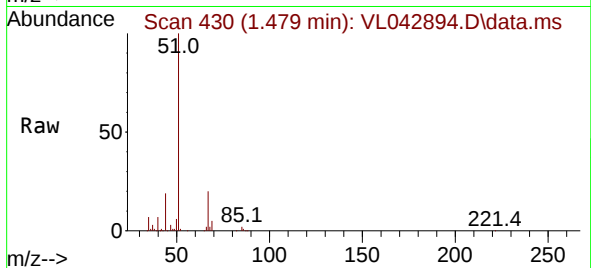
Tgt Ion: 85 Resp: 8606
Ion Ratio Lower Upper
85 100
87 33.0 25.3 37.9





#3
Chlorodifluoromethane
Concen: 0.839 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

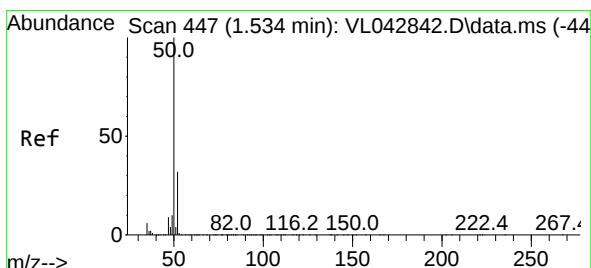
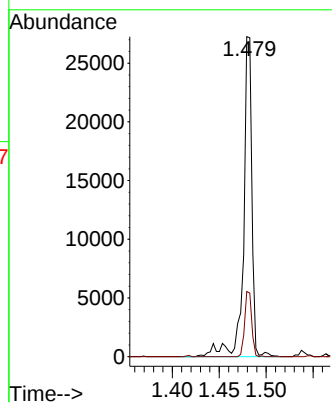
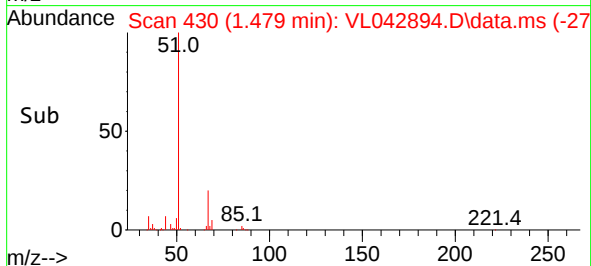
Instrument :
MSVOA_L
ClientSampleId :
IA2



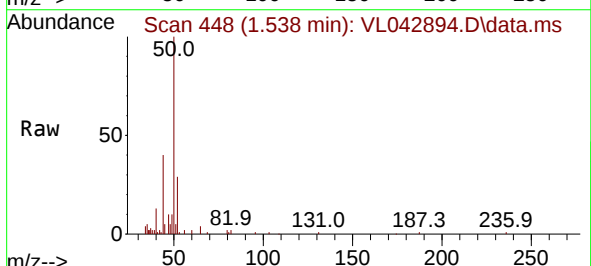
Tgt Ion: 51 Resp: 1690
Ion Ratio Lower Upper
51 100
67 17.1 14.9 22.3

Manual Integrations
APPROVED

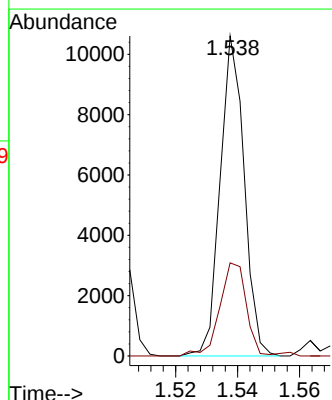
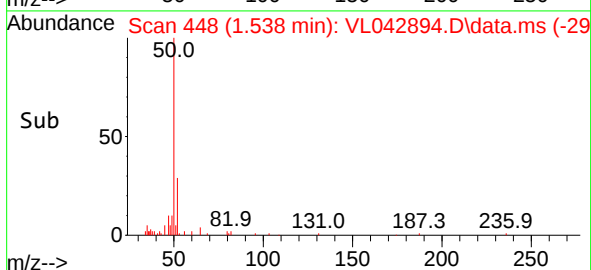
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

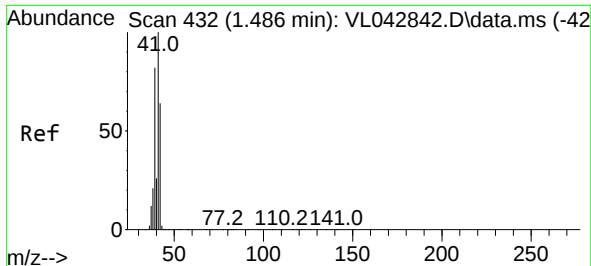


#4
Chloromethane
Concen: 0.776 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.003 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29



Tgt Ion: 50 Resp: 5706
Ion Ratio Lower Upper
50 100
52 29.1 25.9 38.9





#9

Propene

Concen: 0.534 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 41 Resp: 4649

Ion Ratio Lower Upper

41 100

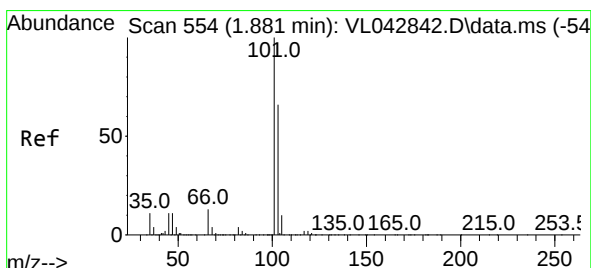
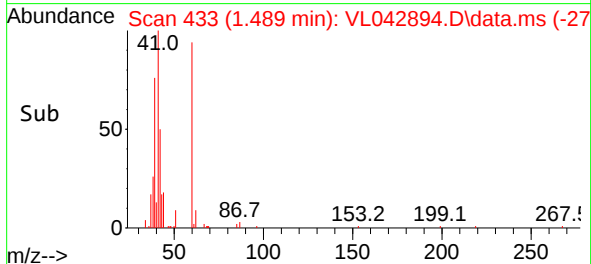
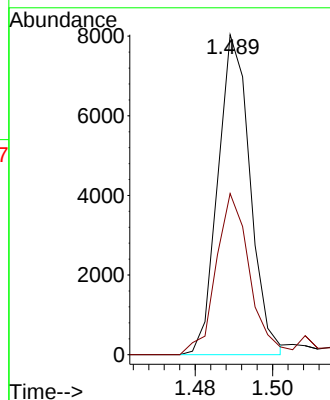
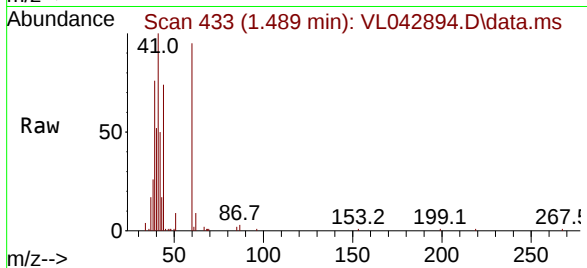
42 56.9 53.0 79.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#11

Trichlorofluoromethane

Concen: 0.273 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.006 min

Lab File: VL042894.D

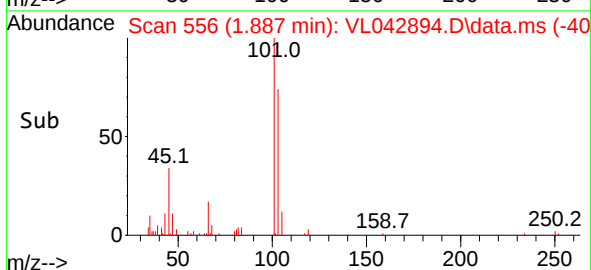
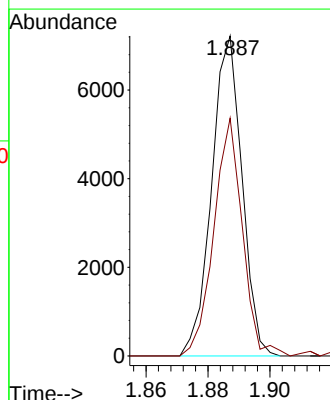
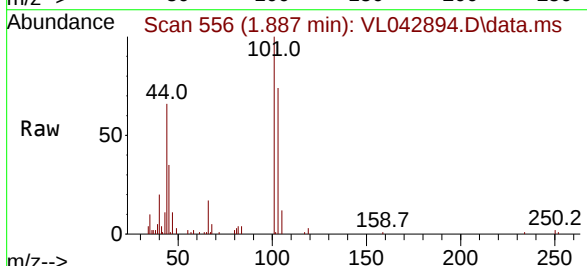
Acq: 04 Sep 2025 17:29

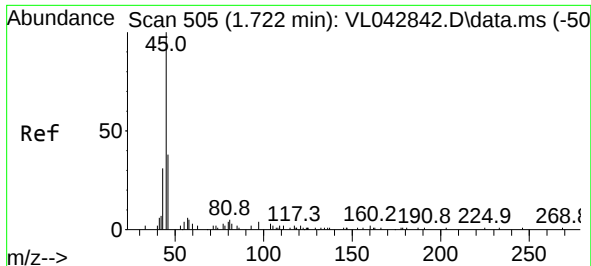
Tgt Ion:101 Resp: 4904

Ion Ratio Lower Upper

101 100

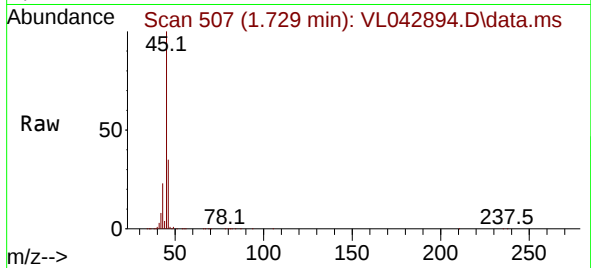
103 74.3 52.5 78.7





#13
Ethanol
Concen: 207.960 ppbv
RT: 1.729 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

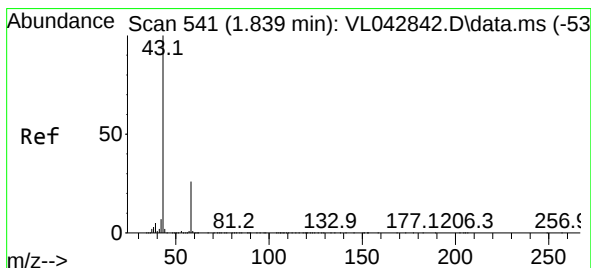
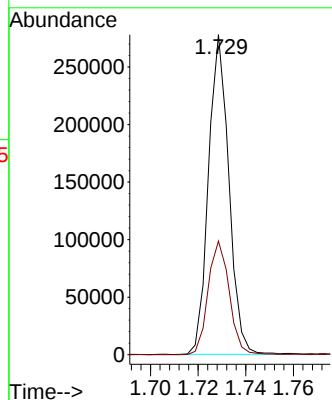
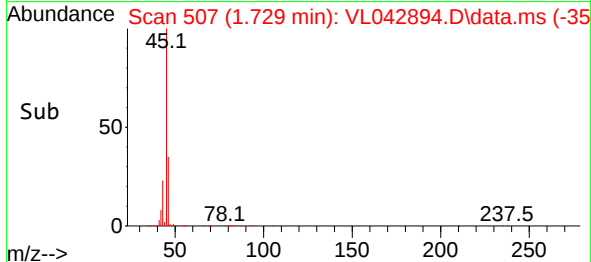
Instrument :
MSVOA_L
ClientSampleId :
IA2



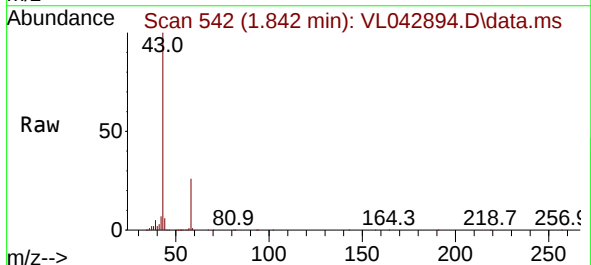
Tgt Ion: 45 Resp: 165450
Ion Ratio Lower Upper
45 100
46 37.3 17.5 69.9

Manual Integrations
APPROVED

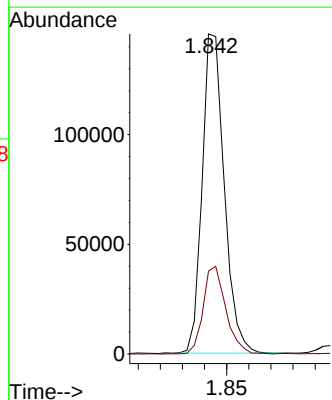
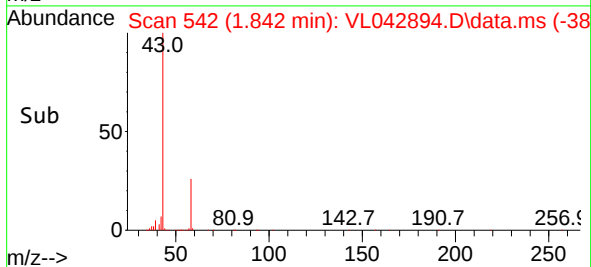
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

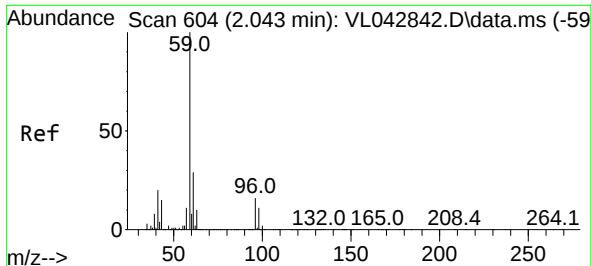


#15
Acetone
Concen: 6.129 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.003 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29



Tgt Ion: 43 Resp: 100830
Ion Ratio Lower Upper
43 100
58 28.5 22.4 33.6





#17

tert-Butyl alcohol

Concen: 0.131 ppbv m

RT: 2.052 min Scan# 604

Delta R.T. 0.010 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

Instrument :

MSVOA_L

ClientSampleId :

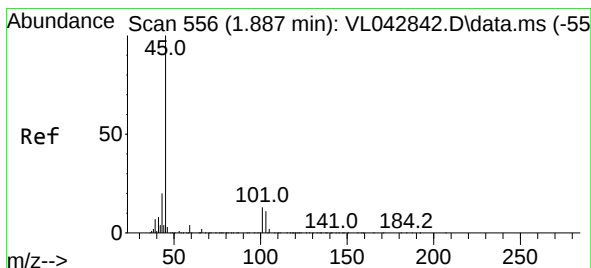
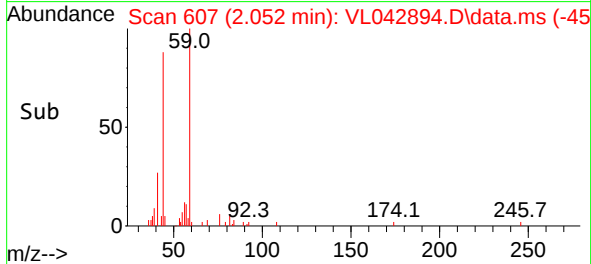
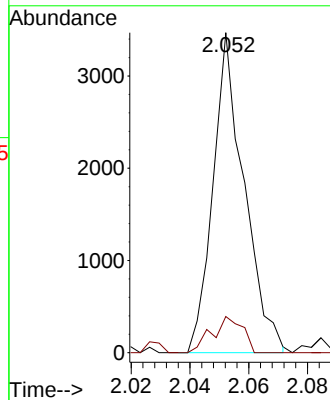
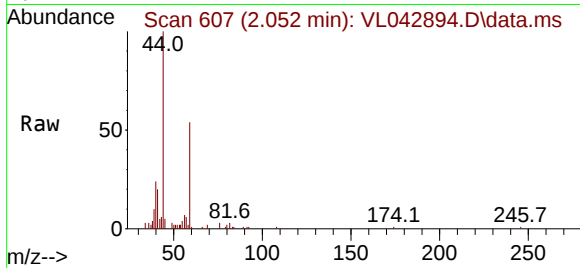
IA2

Tgt Ion: 59 Resp: 2549
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025



#19

Isopropyl Alcohol

Concen: 1.096 ppbv

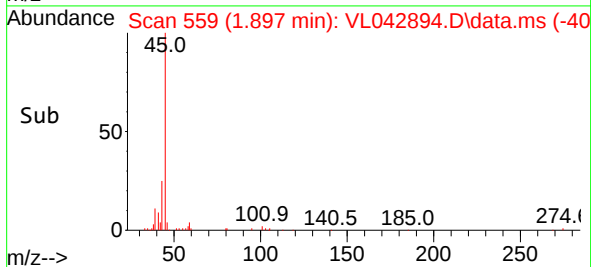
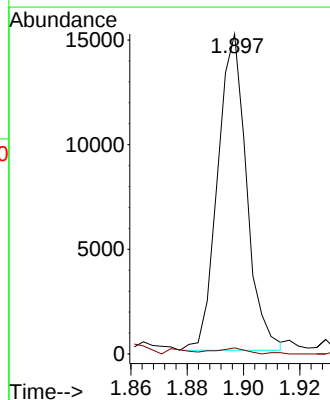
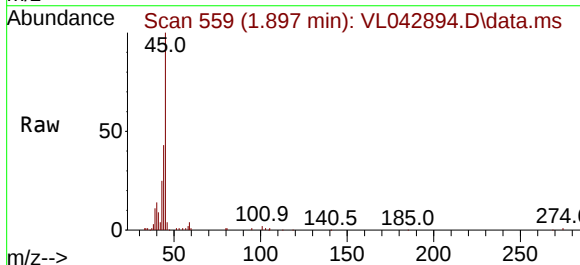
RT: 1.897 min Scan# 559

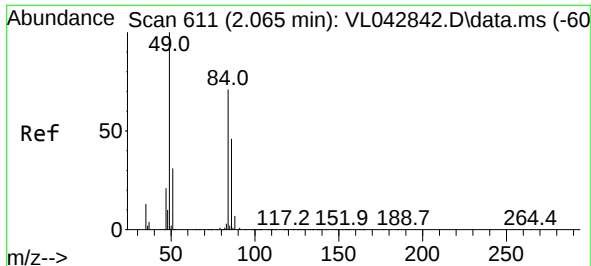
Delta R.T. 0.010 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

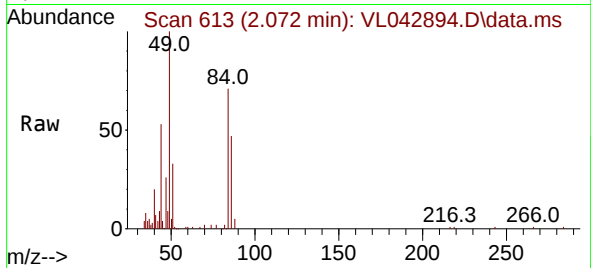
Tgt Ion: 45 Resp: 10775
 Ion Ratio Lower Upper
 45 100
 58 266.5 32.7 49.1





#20
Methylene Chloride
Concen: 0.868 ppbv
RT: 2.072 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

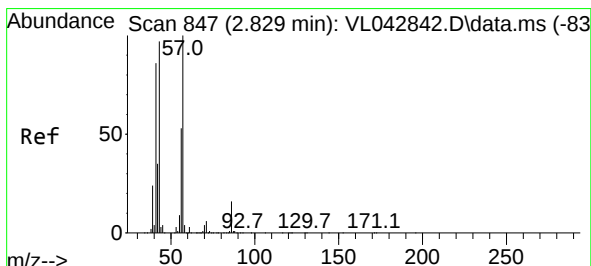
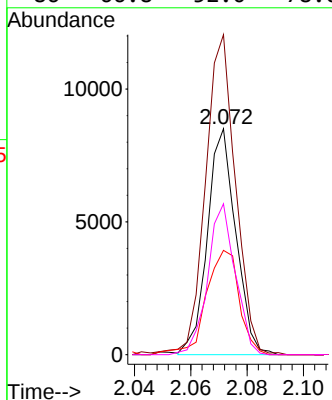
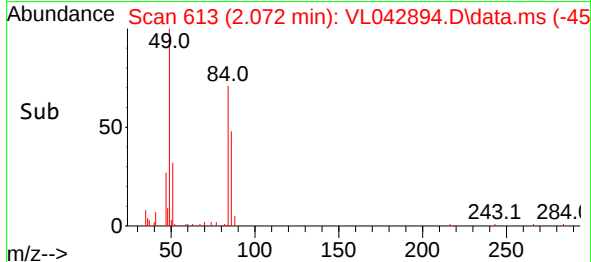
Instrument :
MSVOA_L
ClientSampleId :
IA2



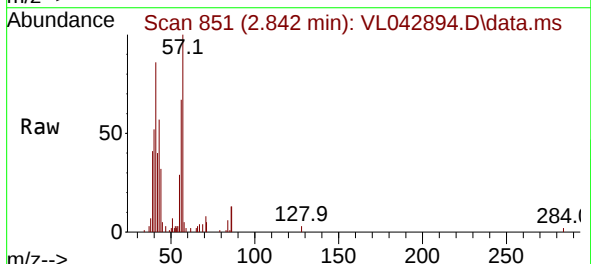
Tgt Ion: 84 Resp: 5980
Ion Ratio Lower Upper
84 100
49 140.8 112.3 168.5
51 46.2 36.0 54.0
86 66.8 52.0 78.0

Manual Integrations
APPROVED

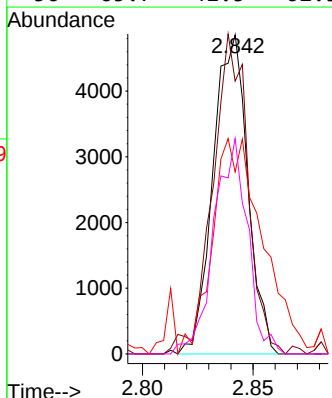
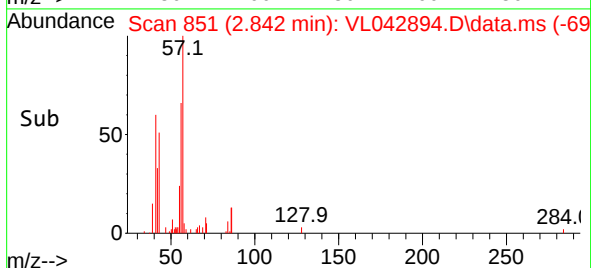
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

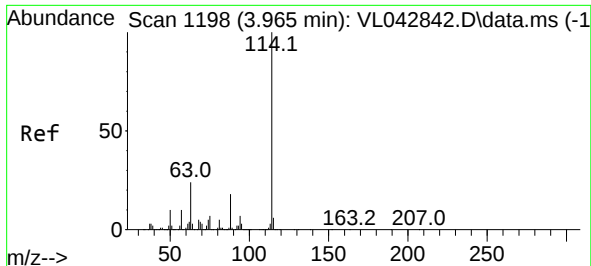


#26
Hexane
Concen: 0.287 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.013 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29



Tgt Ion: 57 Resp: 5276
Ion Ratio Lower Upper
57 100
41 102.5 68.6 103.0
43 110.4 168.5 252.7#
56 65.7 41.5 62.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion:114 Resp: 330230

Ion Ratio Lower Upper

114 100

63 26.3 19.7 29.5

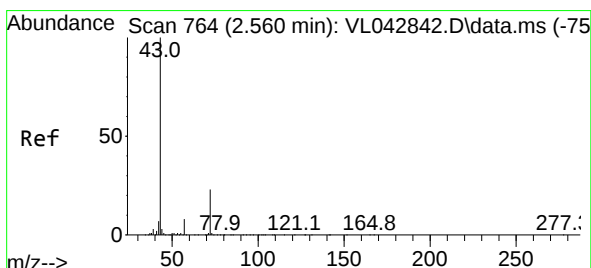
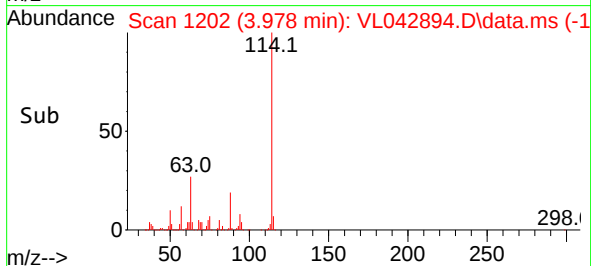
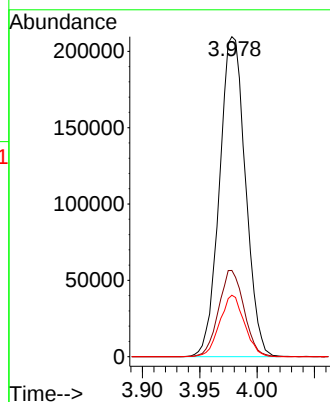
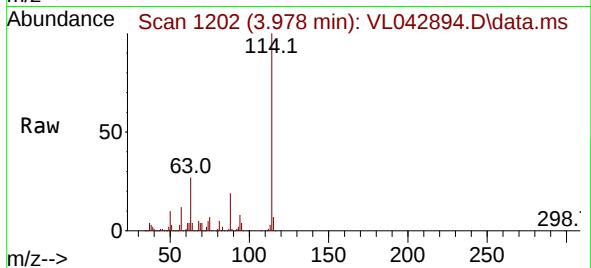
88 18.3 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025

Supervised By :Mahesh Dadoda 09/05/2025



#34

2-Butanone

Concen: 0.580 ppbv

RT: 2.573 min Scan# 768

Delta R.T. 0.013 min

Lab File: VL042894.D

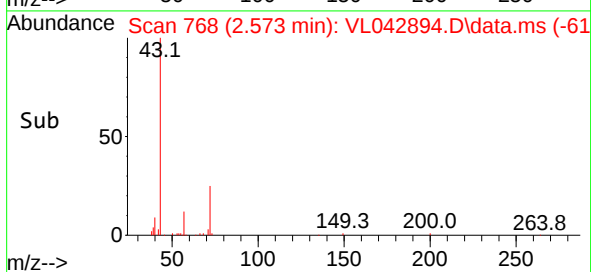
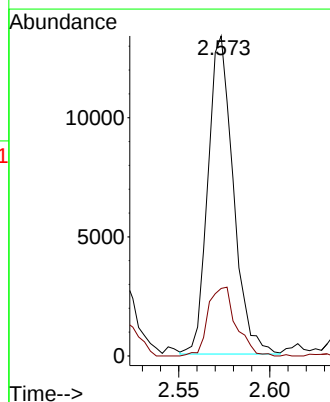
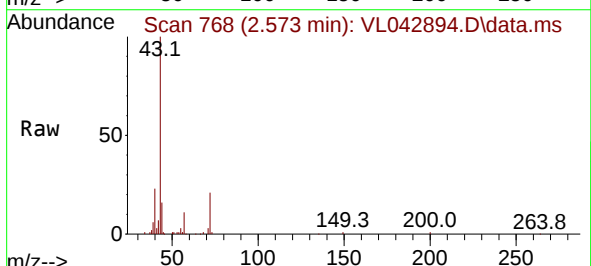
Acq: 04 Sep 2025 17:29

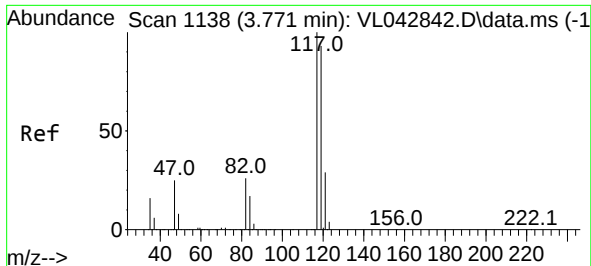
Tgt Ion: 43 Resp: 12924

Ion Ratio Lower Upper

43 100

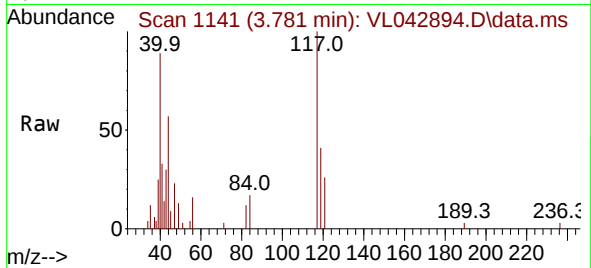
72 23.8 18.6 28.0





#35
Carbon Tetrachloride
Concen: 0.098 ppbv
RT: 3.781 min Scan# 1138
Delta R.T. 0.010 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

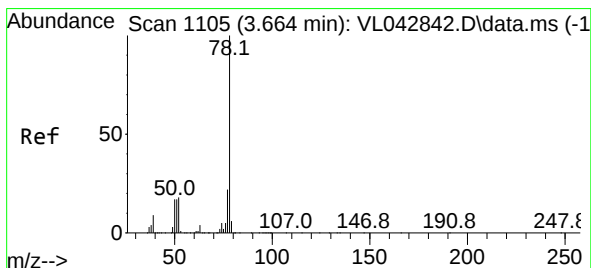
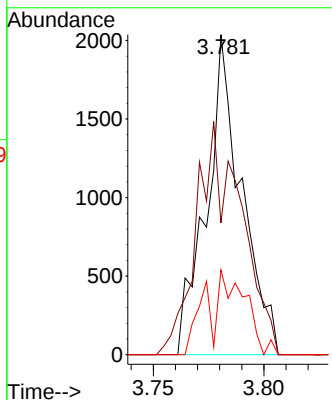
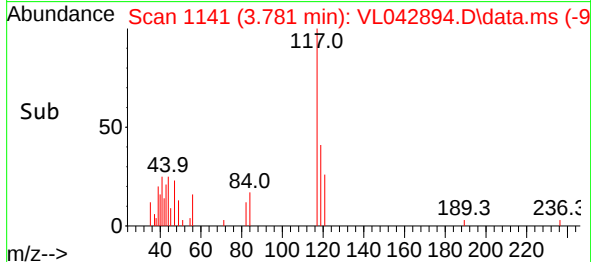
Instrument :
MSVOA_L
ClientSampleId :
IA2



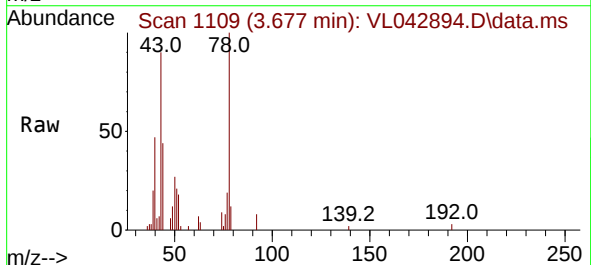
Tgt Ion: 117 Resp: 2240
Ion Ratio Lower Upper
117 100
119 41.2 74.7 112.1
121 26.5 23.2 34.8

Manual Integrations
APPROVED

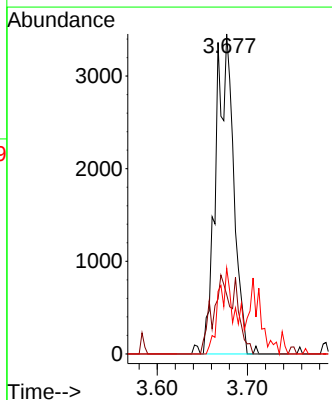
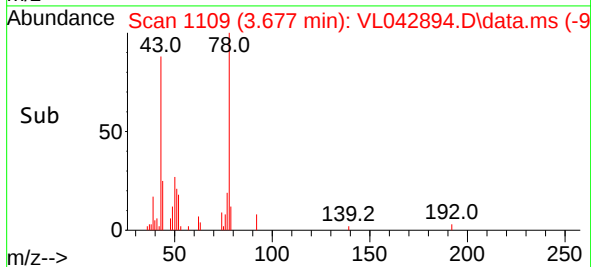
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025

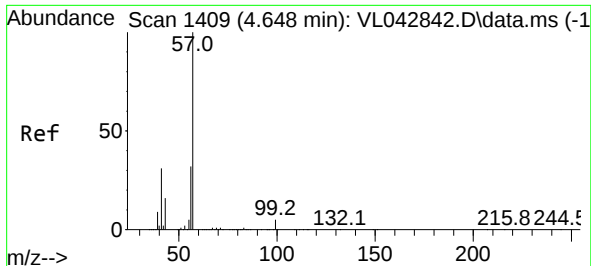


#36
Benzene
Concen: 0.149 ppbv m
RT: 3.677 min Scan# 1109
Delta R.T. 0.013 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29



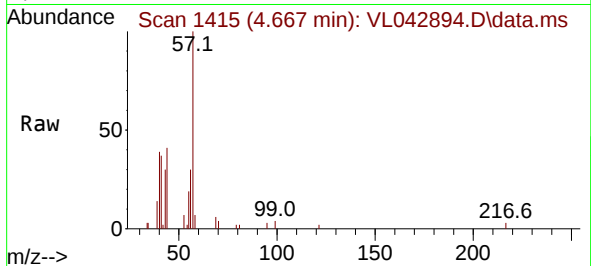
Tgt Ion: 78 Resp: 4724
Ion Ratio Lower Upper
78 100
77 18.5 17.7 26.5
50 26.8 13.9 20.9





#44
2,2,4-Trimethylpentane
Concen: 0.132 ppbv m
RT: 4.667 min Scan# 1415
Delta R.T. 0.019 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

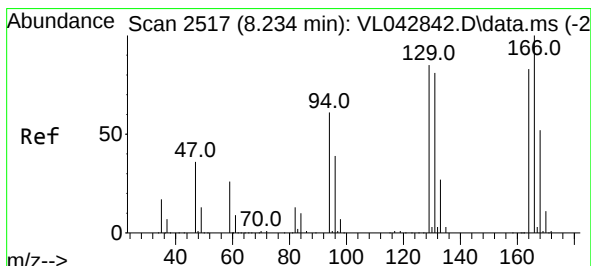
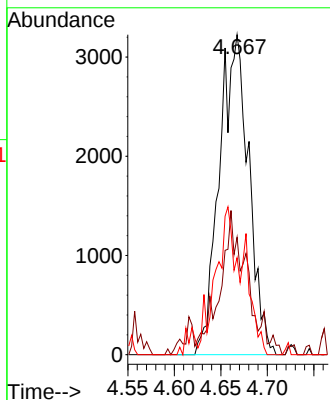
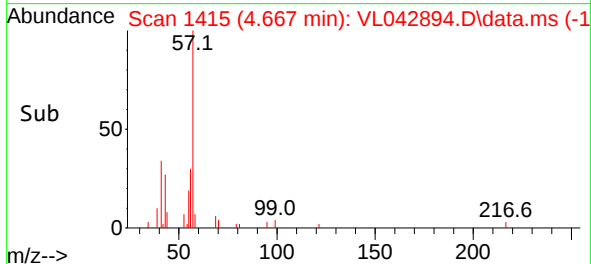
Instrument : MSVOA_L
ClientSampleId : IA2



Tgt Ion: 57 Resp: 7094
Ion Ratio Lower Upper
57 100
41 46.2 24.8 37.2
56 0.0 25.5 38.3

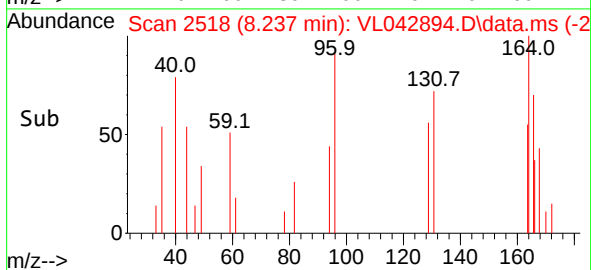
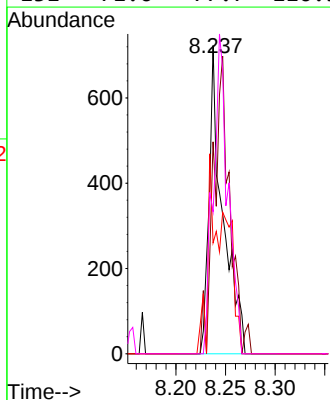
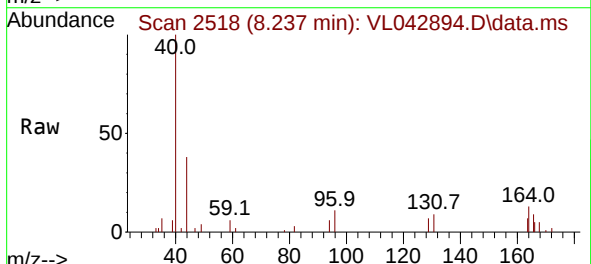
Manual Integrations
APPROVED

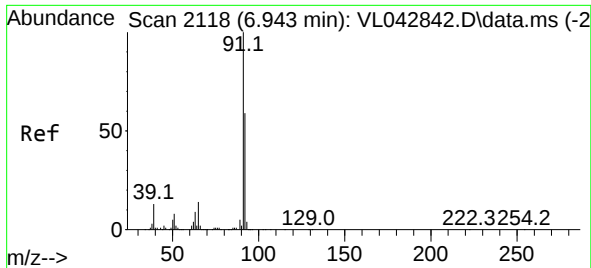
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#52
Tetrachloroethene
Concen: 0.060 ppbv m
RT: 8.237 min Scan# 2518
Delta R.T. 0.003 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

Tgt Ion:164 Resp: 691
Ion Ratio Lower Upper
164 100
166 70.1 96.5 144.7#
129 55.9 81.8 122.6#
131 71.6 77.7 116.5#





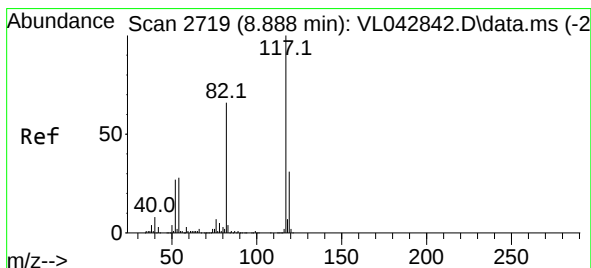
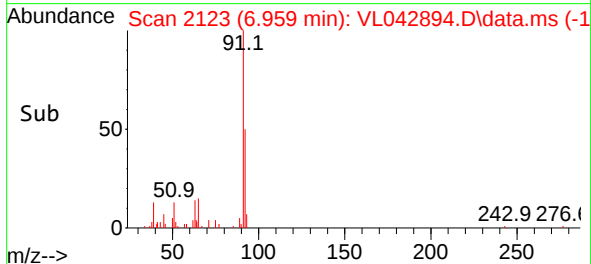
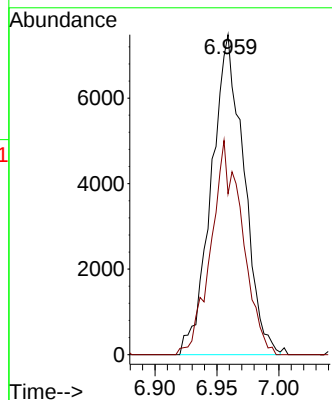
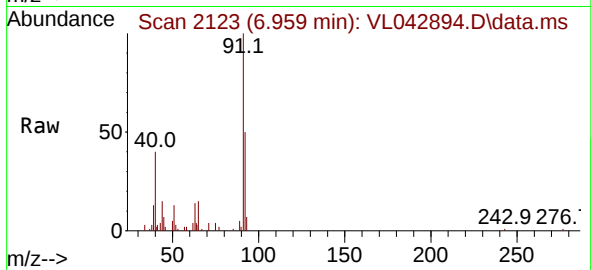
#53
Toluene
Concen: 0.365 ppbv
RT: 6.959 min Scan# 2118
Delta R.T. 0.016 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 91 Resp: 1370
Ion Ratio Lower Upper
91 100
92 64.5 47.8 71.6

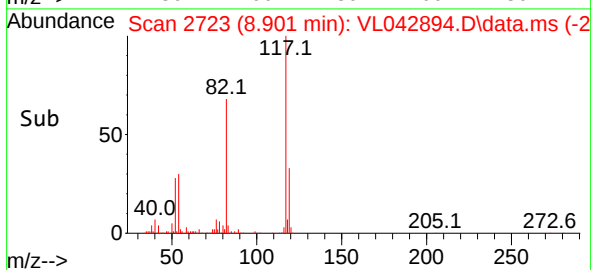
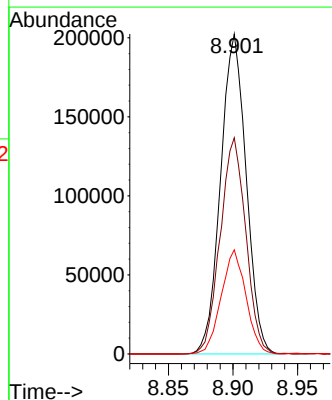
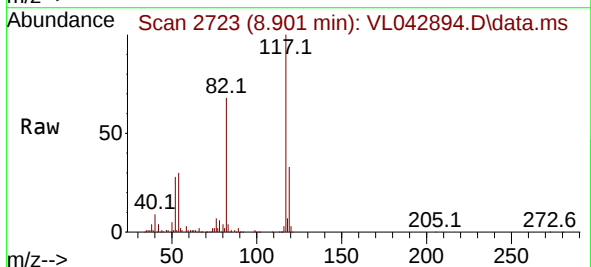
Manual Integrations
APPROVED

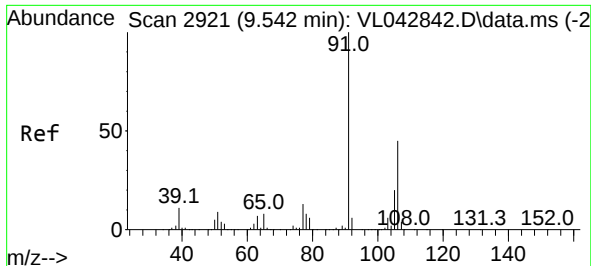
Reviewed By :Semsettin Yesilyurt 09/05/2025
Supervised By :Mahesh Dadoda 09/05/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.013 min
Lab File: VL042894.D
Acq: 04 Sep 2025 17:29

Tgt Ion:117 Resp: 278452
Ion Ratio Lower Upper
117 100
82 67.7 54.6 81.8
119 31.8 25.9 38.9





#59

m/p-Xylene

Concen: 0.177 ppbv m

RT: 9.548 min Scan# 2921

Delta R.T. 0.006 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

Instrument :

MSVOA_L

ClientSampleId :

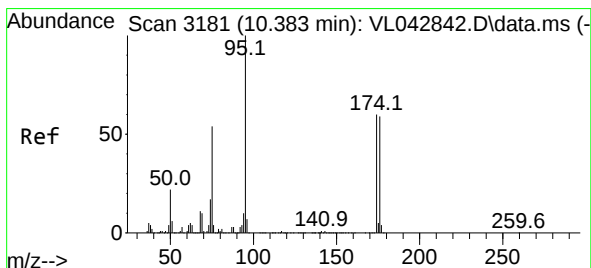
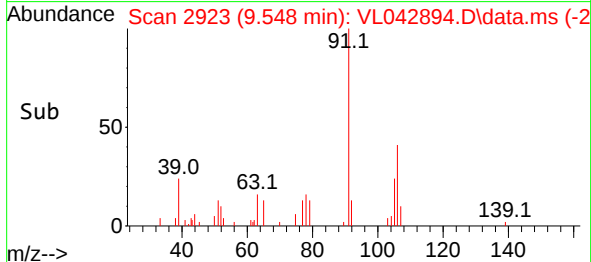
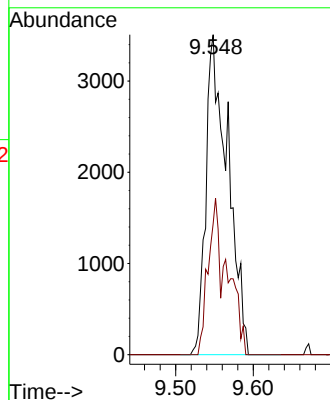
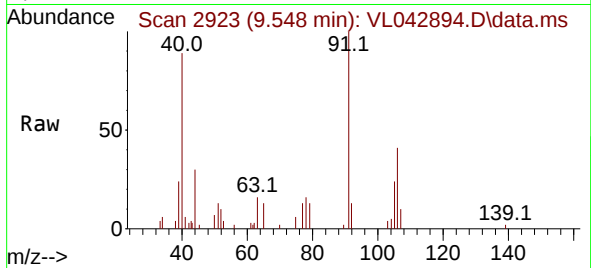
IA2

Tgt Ion: 91 Resp: 6830
 Ion Ratio Lower Upper
 91 100
 106 42.6 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/05/2025
 Supervised By :Mahesh Dadoda 09/05/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.320 ppbv

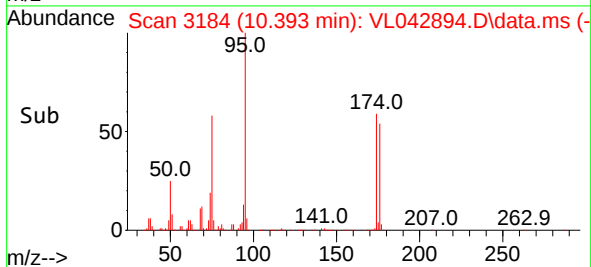
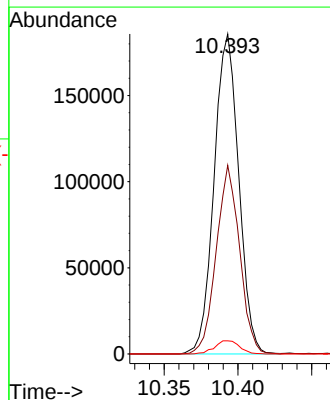
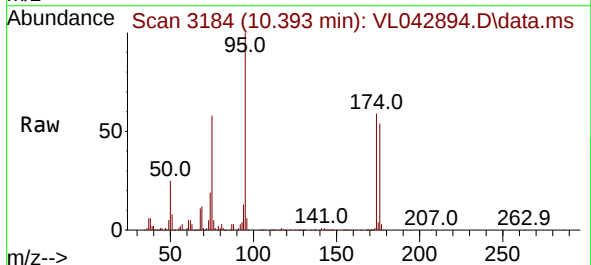
RT: 10.393 min Scan# 3184

Delta R.T. 0.010 min

Lab File: VL042894.D

Acq: 04 Sep 2025 17:29

Tgt Ion: 95 Resp: 215513
 Ion Ratio Lower Upper
 95 100
 174 56.0 48.4 72.6
 175 4.2 3.8 5.8





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>GFEL01</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3000</u>
Instrument ID: <u>MSVOA_L</u>	Calibration Date(s): <u>08/13/2025</u> <u>08/13/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>08:30</u> <u>12:06</u>
GC Column: <u>RTX-1</u> ID: <u>0.32</u> (mm)	

LAB FILE ID:		RRF010 = VL042842.D		RRF002 = VL042843.D		RRF001 = VL042844.D		
		RRF0.5 = VL042845.D		RRF0.1 = VL042846.D		RRF.03 = VL042847.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.502	0.550	0.559	0.593	0.639	0.728	0.582	13.7
Heptane	1.718	1.917	2.011	2.009			1.874	8
1,1-Dichloroethene	0.469	0.532	0.509	0.552			0.507	7.2
Cyclohexane	1.214	1.340	1.283	1.425			1.296	6.9
cis-1,2-Dichloroethene	1.346	1.524	1.524	1.625			1.476	8.1
1,1,1-Trichloroethane	1.999	2.215	2.148	2.209	2.528	2.448	2.230	8.7
2,2,4-Trimethylpentane	1.515	1.676	1.719	1.728			1.625	7.1
Benzene	0.912	0.990	0.978	1.013			0.958	5.3
Trichloroethene	0.399	0.453	0.448	0.501	0.448	0.416	0.437	8.3
Toluene	1.072	1.160	1.181	1.219			1.138	6.1
Tetrachloroethene	0.313	0.345	0.333	0.369	0.379	0.391	0.346	10.2
Ethyl Benzene	1.636	1.838	1.866	1.854			1.765	6.8
m/p-Xylene	1.283	1.455	1.454	1.447			1.383	6.8
o-Xylene	1.266	1.445	1.472	1.532			1.391	9.3
1,3,5-Trimethylbenzene	1.293	1.512	1.535	1.548			1.434	9.4
1,2,4-Trimethylbenzene	1.394	1.698	1.706	1.710			1.574	11.3
Naphthalene	1.315	1.746	1.647	1.383	1.174		1.427	15.5
1-Bromo-4-Fluorobenzene	0.755	0.744	0.760	0.755	0.746	0.736	0.750	1.1
Hexane	1.392	1.522	1.552	1.557			1.478	6.2

* 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 : VL081325AIR.M

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

Last Update : Thu Aug 14 02:12:54 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042847.D 0.1 =VL042846.D 0.5 =VL042845.D 1 =VL042844.D 2 =VL042843.D 10 =VL042842.D 15 =VL042848.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.566	1.525	1.511	1.343	1.383	1.466	6.61
3) Chlorodifluoro...			1.752	1.621	1.714	1.509	1.504	1.620	7.05
4) Chloromethane			0.648	0.618	0.606	0.533	0.551	0.591	8.09
5) T Vinyl Chloride	0.728	0.639	0.593	0.559	0.550	0.502	0.507	0.582	13.72
6) T Bromomethane			0.248	0.268	0.239	0.203	0.206	0.233	12.06
7) Chloroethane			0.266	0.240	0.219	0.202	0.210	0.227	11.46
8) T Dichlorotetra...			1.273	1.235	1.245	1.122	1.122	1.199	6.02
9) T Propene			0.824	0.692	0.715	0.656	0.611	0.700	11.40
10) T Heptane			2.009	2.011	1.917	1.718	1.713	1.874	7.96
11) T Trichlorofluor...			1.614	1.533	1.467	1.271	1.345	1.446	9.59
12) T 1,1,2-Trichlor...			1.259	1.202	1.189	1.047	1.066	1.152	7.95
13) Ethanol			0.089	0.069	0.070	0.046	0.047	0.064	27.87
14) T Bromoethene			0.462	0.416	0.436	0.381	0.391	0.417	7.89
15) T Acetone			1.708	1.475	1.476	0.950	1.005	1.323	24.92
16) T 1,3-Butadiene			0.783	0.633	0.579	0.500	0.503	0.600	19.47
17) tert-Butyl alc...			1.920	1.660	1.557	1.371	1.335	1.569	15.14
18) T 1,1-Dichloroet...			0.552	0.509	0.532	0.469	0.472	0.507	7.21
19) T Isopropyl Alcohol			0.976	0.847	0.799	0.649	0.679	0.790	16.79
20) T Methylene Chlo...			0.792	0.596	0.544	0.414	0.425	0.554	27.79
21) T Allyl Chloride			1.122	0.902	0.945	0.850	0.854	0.935	11.98
22) T trans-1,2-Dich...			0.630	0.613	0.604	0.537	0.546	0.586	7.10
23) T Vinyl Acetate			2.161	1.733	1.849	1.663	1.689	1.819	11.22
24) T 1,1-Dichloroet...			1.317	1.223	1.185	1.040	1.088	1.171	9.38
25) T Ethyl Acetate			3.491	3.346	3.324	2.932	2.914	3.202	8.19
26) T Hexane			1.557	1.552	1.522	1.392	1.366	1.478	6.19
27) T Carbon Disulfide			1.504	1.513	1.511	1.314	1.348	1.438	6.84
28) T Methyl tert-Bu...			0.833	0.747	0.817	0.661	0.710	0.754	9.61
29) T Chloroform			2.299	2.183	2.166	1.932	1.970	2.110	7.32
30) T Cyclohexane			1.425	1.283	1.340	1.214	1.217	1.296	6.87
31) T cis-1,2-Dichlo...			1.625	1.524	1.524	1.346	1.362	1.476	8.06
32) T 1,1,1-Trichlor...	2.448	2.528	2.209	2.148	2.215	1.999	2.063	2.230	8.69

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.753	0.702	0.700	0.610	0.611	0.675	9.33
35) T Carbon Tetrach...	0.736	0.738	0.682	0.700	0.692	0.636	0.643	0.689	5.84
36) T Benzene			1.013	0.978	0.990	0.912	0.896	0.958	5.33
37) T 1,2-Dichloroet...			0.512	0.516	0.503	0.483	0.488	0.500	2.87
38) T Trichloroethene	0.416	0.448	0.501	0.448	0.453	0.399	0.397	0.437	8.35
39) T 1,2-Dichloropr...			0.378	0.365	0.356	0.324	0.326	0.350	6.84

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL081325AIR.M										
40)	T	1,4-Dioxane		0.189	0.185	0.166	0.148	0.144	0.166	12.22
41)	T	Tetrahydrofuran		0.395	0.389	0.392	0.355	0.351	0.376	5.64
42)	T	Bromodichlorom...		0.786	0.742	0.777	0.708	0.714	0.745	4.77
43)		Methyl Methacr...		0.427	0.402	0.415	0.368	0.362	0.394	7.31
44)	T	2,2,4-Trimethy...		1.728	1.719	1.676	1.515	1.489	1.625	7.06
45)	T	t-1,3-Dichloro...		0.450	0.464	0.456	0.428	0.427	0.445	3.73
46)	T	cis-1,3-Dichlo...		0.568	0.559	0.578	0.539	0.529	0.555	3.67
47)	T	1,1,2-Trichlor...		0.395	0.382	0.386	0.341	0.348	0.371	6.52
48)	T	Dibromochlorom...		0.596	0.605	0.632	0.584	0.581	0.600	3.44
49)	T	Bromoform		0.466	0.514	0.535	0.491	0.467	0.495	6.07
50)	T	4-Methyl-2-Pen...		0.960	0.917	0.946	0.881	0.859	0.913	4.67
51)	T	2-Hexanone		0.723	0.737	0.750	0.699	0.683	0.718	3.82
52)	T	Tetrachloroethene	0.391 0.379	0.369	0.333	0.345	0.313	0.295	0.346	10.19
53)	T	Toluene		1.219	1.180	1.160	1.072	1.061	1.138	6.09
54)	T	1,2-Dibromoethane	0.599	0.549	0.532	0.552	0.506	0.512	0.542	6.24
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.534	0.549	0.551	0.476	0.476	0.517	7.39
57)	T	Chlorobenzene		1.026	0.990	0.994	0.878	0.866	0.951	7.68
58)	T	Ethyl Benzene		1.854	1.866	1.838	1.636	1.630	1.765	6.84
59)	T	m/p-Xylene		1.447	1.454	1.455	1.283	1.277	1.383	6.81
60)	T	o-Xylene		1.532	1.472	1.445	1.266	1.242	1.391	9.31
61)	T	Styrene		0.711	0.677	0.660	0.610	0.601	0.652	7.09
62)		Isopropylbenzene		2.149	2.194	2.133	1.852	1.838	2.033	8.53
63)	T	1,1,2,2-Tetrac...	0.881 0.774	0.795	0.784	0.772	0.674	0.677	0.765	9.39
64)		n-propylbenzene		0.570	0.528	0.549	0.475	0.472	0.519	8.47
65)		tert-Butylbenzene		1.907	1.991	1.910	1.605	1.549	1.793	11.19
66)	T	Benzyl Chloride		0.232	0.226	0.246	0.227	0.207	0.228	6.21
67)		sec-Butylbenzene		2.669	2.754	2.706	2.250	2.202	2.516	10.62
68)	S	1-Bromo-4-Fluo...	0.736 0.746	0.755	0.760	0.744	0.755	0.754	0.750	1.09
69)		p-Isopropyltol...		2.338	2.372	2.328	1.905	1.856	2.160	11.85
70)		n-Butylbenzene		2.234	2.303	2.333	1.927	1.915	2.142	9.58
71)		2-Chlorotoluene		1.709	1.719	1.641	1.418	1.408	1.579	9.77
72)	T	4-Ethyltoluene		1.738	1.806	1.784	1.563	1.543	1.687	7.39
73)	T	1,3,5-Trimethy...		1.548	1.535	1.512	1.293	1.283	1.434	9.37
74)	T	1,2,4-Trimethy...		1.710	1.706	1.698	1.394	1.365	1.574	11.33
75)	T	1,3-Dichlorobe...		0.937	0.946	0.967	0.831	0.795	0.895	8.59
76)	T	1,4-Dichlorobe...		0.966	0.946	0.978	0.833	0.803	0.905	8.93
77)	T	1,2-Dichlorobe...		0.937	0.956	0.947	0.781	0.761	0.876	11.03
78)	T	Hexachloro-1,3...		0.814	0.845	0.804	0.572	0.556	0.718	19.74
79)	T	Naphthalene	1.174	1.383	1.647	1.746	1.315	1.300	1.427	15.50
80)	T	Naphthalene,2-...		0.430	0.554	0.708	0.478	0.497	0.533	20.15
81)	T	1,2,4-Trichlor...		0.623	0.797	0.855	0.661	0.650	0.717	14.24

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	133104	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	413632	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	370372	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 279557 10.064 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	178799	9.166	ppbv	100
3) Chlorodifluoromethane	1.476	51	200866	9.306	ppbv	100
4) Chloromethane	1.534	50	70952	9.013	ppbv	100
5) Vinyl Chloride	1.583	62	66768	8.612	ppbv	100
6) Bromomethane	1.670	94	26964	8.698	ppbv	100
7) Chloroethane	1.706	64	26884	8.879	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	149341	9.355	ppbv	100
9) Propene	1.486	41	87352	9.380	ppbv	100
10) Heptane	4.988	43	228679	9.186	ppbv	100
11) Trichlorofluoromethane	1.881	101	169157	8.789	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	139340	9.083	ppbv	100
13) Ethanol	1.722	45	6172	6.690	ppbv	100
14) Bromoethene	1.784	108	50730	9.135	ppbv	100
15) Acetone	1.839	43	126419	7.180	ppbv	100
16) 1,3-Butadiene	1.612	39	66595	8.343	ppbv	100
17) tert-Butyl alcohol	2.043	59	182511	8.741	ppbv	100
18) 1,1-Dichloroethene	2.036	96	62397	9.252	ppbv	100
19) Isopropyl Alcohol	1.887	45	86367	8.213	ppbv	100
20) Methylene Chloride	2.065	84	55107	7.471	ppbv	100
21) Allyl Chloride	2.098	41	113105	9.093	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	71518	9.482	ppbv	100
23) Vinyl Acetate	2.467	43	221395	9.558	ppbv	100
24) 1,1-Dichloroethane	2.412	63	138444	8.885	ppbv	100
25) Ethyl Acetate	2.839	43	390295	9.159	ppbv	100
26) Hexane	2.829	57	185288	9.420	ppbv	100
27) Carbon Disulfide	2.153	76	174928	9.138	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	87929	8.767	ppbv	100
29) Chloroform	2.852	83	257176	9.158	ppbv	100
30) Cyclohexane	3.862	84	161540	9.367	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	179162	9.107	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	266021	8.946	ppbv	100
34) 2-Butanone	2.560	43	252300	9.033	ppbv	100
35) Carbon Tetrachloride	3.771	117	262983	9.222	ppbv	100
36) Benzene	3.664	78	377113	9.521	ppbv	100
37) 1,2-Dichloroethane	3.224	62	199762	9.653	ppbv	100
38) Trichloroethene	4.557	130	164881	9.115	ppbv	100
39) 1,2-Dichloropropane	4.324	63	133996	9.263	ppbv	100
40) 1,4-Dioxane	4.590	88	61378	9.064	ppbv #	100
41) Tetrahydrofuran	3.059	42	147025	9.442	ppbv	100
42) Bromodichloromethane	4.499	83	292909	9.499	ppbv	100
43) Methyl Methacrylate	4.891	69	152035	9.357	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	626465	9.420	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	177207	9.616	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	222921	9.635	ppbv	100
47) 1,1,2-Trichloroethane	6.590	97	141105	9.215	ppbv	100
48) Dibromochloromethane	7.396	129	241553	9.739	ppbv	100
49) Bromoform	9.490	173	202975	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	5.761	43	364306	9.616	ppbv	100
51) 2-Hexanone	7.441	43	289052	9.730	ppbv #	100
52) Tetrachloroethene	8.234	164	129484	9.026	ppbv	100
53) Toluene	6.943	91	443400	9.407	ppbv	100
54) 1,2-Dibromoethane	7.661	107	209330	9.345	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.933	131	176135	9.196	ppbv	100
57) Chlorobenzene	8.930	112	325303	9.237	ppbv	100
58) Ethyl Benzene	9.364	91	605785	9.268	ppbv	100
59) m/p-Xylene	9.542	91	950548m	18.524	ppbv	
60) o-Xylene	9.972	91	469073	9.102	ppbv	100
61) Styrene	9.879	104	226056	9.362	ppbv	100
62) Isopropylbenzene	10.549	105	685983	9.108	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	249621	8.870	ppbv	100
64) n-propylbenzene	10.995	120	175986	9.158	ppbv	100
65) tert-Butylbenzene	11.539	119	594314	8.951	ppbv	100
66) Benzyl Chloride	11.620	91	84156	9.985	ppbv	100
67) sec-Butylbenzene	11.772	105	833378	8.943	ppbv	100
69) p-Isopropyltoluene	11.931	119	705700	8.820	ppbv	100
70) n-Butylbenzene	12.287	91	713713	8.995	ppbv	100
71) 2-Chlorotoluene	10.908	91	525235	8.981	ppbv	100
72) 4-Ethyltoluene	11.131	105	578931	9.267	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	478784	9.012	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	516253	8.853	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	307640	9.280	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	308542	9.203	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	289119	8.907	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	211996	7.968	ppbv	100
79) Naphthalene	13.516	128	487174	9.335	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	176880	9.000	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	244998	9.220	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	130555	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	408144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	363830	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 270774 9.923 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	39443	2.061	ppbv	99
3) Chlorodifluoromethane	1.480	51	44759	2.114	ppbv	96
4) Chloromethane	1.535	50	15826	2.050	ppbv	99
5) Vinyl Chloride	1.583	62	14358	1.888	ppbv	97
6) Bromomethane	1.670	94	6248	2.055	ppbv	97
7) Chloroethane	1.706	64	5717	1.925	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	32496	2.075	ppbv	98
9) Propene	1.486	41	18678	2.045	ppbv	89
10) Heptane	4.991	43	50062	2.050	ppbv	97
11) Trichlorofluoromethane	1.881	101	38308	2.029	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.146	101	31052	2.064	ppbv	99
13) Ethanol	1.725	45	1817m	2.008	ppbv	
14) Bromoethene	1.784	108	11376	2.089	ppbv	96
15) Acetone	1.839	43	38531	2.231	ppbv	96
16) 1,3-Butadiene	1.612	39	15122	1.932	ppbv	98
17) tert-Butyl alcohol	2.046	59	40652	1.985	ppbv	97
18) 1,1-Dichloroethene	2.039	96	13883	2.099	ppbv	95
19) Isopropyl Alcohol	1.891	45	20866	2.023	ppbv #	39
20) Methylene Chloride	2.065	84	14204	1.963	ppbv #	92
21) Allyl Chloride	2.101	41	24662	2.021	ppbv	96
22) trans-1,2-Dichloroethene	2.344	96	15773	2.132	ppbv	96
23) Vinyl Acetate	2.467	43	48269	2.125	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	30931	2.024	ppbv	98
25) Ethyl Acetate	2.842	43	86804	2.077	ppbv	98
26) Hexane	2.832	57	39735	2.060	ppbv	94
27) Carbon Disulfide	2.156	76	39466	2.102	ppbv #	15
28) Methyl tert-Butyl Ether	2.444	73	21341	2.169	ppbv	96
29) Chloroform	2.855	83	56553	2.053	ppbv	95
30) Cyclohexane	3.868	84	34992	2.069	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	39783	2.062	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	57837	1.983	ppbv	100
34) 2-Butanone	2.564	43	57172	2.075	ppbv	98
35) Carbon Tetrachloride	3.771	117	56459	2.007	ppbv	97
36) Benzene	3.664	78	80781	2.067	ppbv	98
37) 1,2-Dichloroethane	3.227	62	41034	2.010	ppbv	97
38) Trichloroethene	4.561	130	36990	2.072	ppbv #	86
39) 1,2-Dichloropropane	4.328	63	29059	2.036	ppbv	98
40) 1,4-Dioxane	4.606	88	13510m	2.022	ppbv	
41) Tetrahydrofuran	3.062	42	31994	2.082	ppbv	97
42) Bromodichloromethane	4.503	83	63436	2.085	ppbv	97
43) Methyl Methacrylate	4.888	69	33851m	2.111	ppbv	
44) 2,2,4-Trimethylpentane	4.655	57	136794	2.085	ppbv	98
45) t-1,3-Dichloropropene	6.428	75	37248	2.048	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	47201m	2.067	ppbv	
47) 1,1,2-Trichloroethane	6.593	97	31477m	2.083	ppbv	
48) Dibromochloromethane	7.399	129	51620	2.109	ppbv	100
49) Bromoform	9.493	173	43662	2.163	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	77225	2.066	ppbv	99
51) 2-Hexanone	7.451	43	61210	2.088	ppbv #	98
52) Tetrachloroethene	8.234	164	28166	1.990	ppbv	92
53) Toluene	6.946	91	94690	2.036	ppbv	98
54) 1,2-Dibromoethane	7.665	107	45071	2.039	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.933	131	40090	2.131	ppbv	97
57) Chlorobenzene	8.933	112	72296	2.090	ppbv	97
58) Ethyl Benzene	9.364	91	133719	2.083	ppbv	99
59) m/p-Xylene	9.558	91	211704m	4.200	ppbv	
60) o-Xylene	9.972	91	105125	2.077	ppbv	100
61) Styrene	9.879	104	48027	2.025	ppbv	96
62) Isopropylbenzene	10.545	105	155223	2.098	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	56139	2.031	ppbv	98
64) n-propylbenzene	10.995	120	39922	2.115	ppbv	97
65) tert-Butylbenzene	11.536	119	139019	2.132	ppbv	99
66) Benzyl Chloride	11.623	91	17893	2.161	ppbv	97
67) sec-Butylbenzene	11.772	105	196899	2.151	ppbv	98
69) p-Isopropyltoluene	11.931	119	169429	2.156	ppbv	99
70) n-Butylbenzene	12.287	91	169768	2.178	ppbv	99
71) 2-Chlorotoluene	10.908	91	119382	2.078	ppbv	99
72) 4-Ethyltoluene	11.131	105	129786	2.115	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	110043	2.109	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	123554	2.157	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	70330	2.160	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	71160	2.161	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	68944	2.162	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	58509	2.239	ppbv	100
79) Naphthalene	13.517	128	127025	2.478	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	51541	2.670	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	62216	2.384	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	128542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	400305	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	349577	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 265708 10.135 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	19603	1.041	ppbv	99
3) Chlorodifluoromethane	1.476	51	20833	0.999	ppbv	93
4) Chloromethane	1.535	50	7948	1.045	ppbv	96
5) Vinyl Chloride	1.583	62	7189	0.960	ppbv	96
6) Bromomethane	1.667	94	3446	1.151	ppbv	84
7) Chloroethane	1.706	64	3089	1.056	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	15872	1.030	ppbv	100
9) Propene	1.486	41	8897	0.989	ppbv	89
10) Heptane	4.985	43	25850m	1.075	ppbv	
11) Trichlorofluoromethane	1.881	101	19701	1.060	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	15446	1.043	ppbv	97
13) Ethanol	1.722	45	883m	0.991	ppbv	
14) Bromoethene	1.784	108	5343	0.996	ppbv #	78
15) Acetone	1.839	43	18961	1.115	ppbv	98
16) 1,3-Butadiene	1.609	39	8133	1.055	ppbv	98
17) tert-Butyl alcohol	2.046	59	21342	1.058	ppbv #	93
18) 1,1-Dichloroethene	2.040	96	6549	1.006	ppbv	93
19) Isopropyl Alcohol	1.888	45	10893	1.073	ppbv #	39
20) Methylene Chloride	2.062	84	7661	1.076	ppbv #	90
21) Allyl Chloride	2.098	41	11598	0.966	ppbv	88
22) trans-1,2-Dichloroethene	2.344	96	7882m	1.082	ppbv	
23) Vinyl Acetate	2.467	43	22270	0.996	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	15727	1.045	ppbv	98
25) Ethyl Acetate	2.842	43	43007	1.045	ppbv	98
26) Hexane	2.829	57	19944	1.050	ppbv	92
27) Carbon Disulfide	2.153	76	19450	1.052	ppbv #	2
28) Methyl tert-Butyl Ether	2.444	73	9600	0.991	ppbv #	88
29) Chloroform	2.852	83	28055	1.034	ppbv	97
30) Cyclohexane	3.865	84	16492	0.990	ppbv	90
31) cis-1,2-Dichloroethene	2.723	61	19591	1.031	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	27607	0.961	ppbv	97
34) 2-Butanone	2.564	43	28105	1.040	ppbv	98
35) Carbon Tetrachloride	3.768	117	28008	1.015	ppbv	93
36) Benzene	3.661	78	39137	1.021	ppbv #	94
37) 1,2-Dichloroethane	3.224	62	20645	1.031	ppbv	97
38) Trichloroethene	4.555	130	17921	1.024	ppbv #	89
39) 1,2-Dichloropropane	4.325	63	14595m	1.042	ppbv	
40) 1,4-Dioxane	4.603	88	7386m	1.127	ppbv	
41) Tetrahydrofuran	3.062	42	15552	1.032	ppbv	94
42) Bromodichloromethane	4.499	83	29683	0.995	ppbv	99
43) Methyl Methacrylate	4.885	69	16073m	1.022	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	68813m	1.069	ppbv	
45) t-1,3-Dichloropropene	6.419	75	18580m	1.042	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

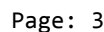
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	22372	0.999	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	15295	1.032	ppbv	86
48) Dibromochloromethane	7.396	129	24214	1.009	ppbv	99
49) Bromoform	9.490	173	20579	1.040	ppbv	98
50) 4-Methyl-2-Pentanone	5.768	43	36710	1.001	ppbv	98
51) 2-Hexanone	7.451	43	29487	1.026	ppbv #	99
52) Tetrachloroethene	8.235	164	13322	0.960	ppbv	90
53) Toluene	6.946	91	47256	1.036	ppbv	99
54) 1,2-Dibromoethane	7.665	107	21280	0.982	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	19176	1.061	ppbv	96
57) Chlorobenzene	8.930	112	34617	1.041	ppbv #	91
58) Ethyl Benzene	9.361	91	65223	1.057	ppbv	95
59) m/p-Xylene	9.558	91	101634m	2.098	ppbv	
60) o-Xylene	9.969	91	51445	1.058	ppbv	99
61) Styrene	9.879	104	23660	1.038	ppbv	100
62) Isopropylbenzene	10.546	105	76708	1.079	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	27410	1.032	ppbv	98
64) n-propylbenzene	10.995	120	18462	1.018	ppbv	90
65) tert-Butylbenzene	11.536	119	69617	1.111	ppbv	99
66) Benzyl Chloride	11.617	91	7900	0.993	ppbv	98
67) sec-Butylbenzene	11.772	105	96288	1.095	ppbv	98
69) p-Isopropyltoluene	11.931	119	82934	1.098	ppbv	99
70) n-Butylbenzene	12.287	91	80511	1.075	ppbv	99
71) 2-Chlorotoluene	10.908	91	60086	1.089	ppbv	100
72) 4-Ethyltoluene	11.131	105	63147	1.071	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	53676	1.070	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	59633	1.083	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	33061	1.057	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	33064	1.045	ppbv	96
77) 1,2-Dichlorobenzene	11.950	146	33404	1.090	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	29555	1.177	ppbv	95
79) Naphthalene	13.517	128	57580	1.169	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	19375	1.045	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	27861	1.111	ppbv	99

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

Manual Integrations

Quant Time: Aug 14 01:47:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Aug 14 01:48:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 01:48:25 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	126879	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	396264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	348005	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	262663	10.064	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.600%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.502	85	9937	0.534	ppbv	100
3) Chlorodifluoromethane	1.479	51	11115	0.540	ppbv	96
4) Chloromethane	1.538	50	4112	0.548	ppbv	90
5) Vinyl Chloride	1.586	62	3762	0.509	ppbv	94
6) Bromomethane	1.674	94	1576	0.533	ppbv	82
7) Chloroethane	1.709	64	1690	0.586	ppbv #	85
8) Dichlorotetrafluoroethane	1.557	85	8079	0.531	ppbv	95
9) Propene	1.489	41	5225	0.589	ppbv	91
10) Heptane	4.998	43	12747	0.537	ppbv	93
11) Trichlorofluoromethane	1.884	101	10238	0.558	ppbv	98
12) 1,1,2-Trichlorotrifluoro...	2.146	101	7984	0.546	ppbv	98
13) Ethanol	1.725	45	562	0.639	ppbv #	1
14) Bromoethene	1.787	108	2932	0.554	ppbv #	85
15) Acetone	1.842	43	10836	0.646	ppbv	98
16) 1,3-Butadiene	1.612	39	4970	0.653	ppbv	99
17) tert-Butyl alcohol	2.049	59	12182	0.612	ppbv #	89
18) 1,1-Dichloroethene	2.039	96	3501	0.545	ppbv	92
19) Isopropyl Alcohol	1.891	45	6194	0.618	ppbv #	56
20) Methylene Chloride	2.069	84	5025	0.715	ppbv	90
21) Allyl Chloride	2.104	41	7120	0.600	ppbv #	76
22) trans-1,2-Dichloroethene	2.350	96	3996	0.556	ppbv	96
23) Vinyl Acetate	2.470	43	13709	0.621	ppbv #	98
24) 1,1-Dichloroethane	2.418	63	8354	0.562	ppbv #	96
25) Ethyl Acetate	2.845	43	22148	0.545	ppbv #	96
26) Hexane	2.832	57	9879	0.527	ppbv	85
27) Carbon Disulfide	2.156	76	9539	0.523	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	5284	0.553	ppbv #	62
29) Chloroform	2.858	83	14586	0.545	ppbv	100
30) Cyclohexane	3.868	84	9037	0.550	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	10308	0.550	ppbv #	86
32) 1,1,1-Trichloroethane	3.379	97	14011	0.494	ppbv	97
34) 2-Butanone	2.567	43	14923	0.558	ppbv	100
35) Carbon Tetrachloride	3.774	117	13507	0.494	ppbv	97
36) Benzene	3.671	78	20073	0.529	ppbv	98
37) 1,2-Dichloroethane	3.230	62	10141	0.512	ppbv #	93
38) Trichloroethene	4.564	130	9918	0.572	ppbv #	88
39) 1,2-Dichloropropane	4.334	63	7491	0.541	ppbv	86
40) 1,4-Dioxane	4.613	88	3743m	0.577	ppbv	
41) Tetrahydrofuran	3.072	42	7827	0.525	ppbv	93
42) Bromodichloromethane	4.509	83	15580	0.527	ppbv #	94
43) Methyl Methacrylate	4.897	69	8461m	0.544	ppbv	
44) 2,2,4-Trimethylpentane	4.661	57	34237m	0.537	ppbv	
45) t-1,3-Dichloropropene	6.435	75	8911m	0.505	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:48:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	11259m	0.508	ppbv	
47) 1,1,2-Trichloroethane	6.603	97	7835m	0.534	ppbv	
48) Dibromochloromethane	7.406	129	11805	0.497	ppbv	100
49) Bromoform	9.497	173	9232	0.471	ppbv	95
50) 4-Methyl-2-Pentanone	5.778	43	19028m	0.524	ppbv	
51) 2-Hexanone	7.458	43	14329	0.503	ppbv #	99
52) Tetrachloroethene	8.244	164	7304	0.531	ppbv #	87
53) Toluene	6.956	91	24155m	0.535	ppbv	
54) 1,2-Dibromoethane	7.668	107	10873	0.507	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.940	131	9300	0.517	ppbv #	1
57) Chlorobenzene	8.937	112	17845	0.539	ppbv #	96
58) Ethyl Benzene	9.370	91	32261	0.525	ppbv	99
59) m/p-Xylene	9.561	91	50372m	1.045	ppbv	
60) o-Xylene	9.979	91	26662	0.551	ppbv	100
61) Styrene	9.885	104	12379	0.546	ppbv	95
62) Isopropylbenzene	10.552	105	37401	0.529	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.976	83	13828	0.523	ppbv	95
64) n-propylbenzene	10.998	120	9922	0.550	ppbv	98
65) tert-Butylbenzene	11.542	119	33183	0.532	ppbv	97
66) Benzyl Chloride	11.626	91	4039	0.510	ppbv #	97
67) sec-Butylbenzene	11.778	105	46433	0.530	ppbv	96
69) p-Isopropyltoluene	11.934	119	40686	0.541	ppbv	99
70) n-Butylbenzene	12.290	91	38867	0.521	ppbv	99
71) 2-Chlorotoluene	10.911	91	29736	0.541	ppbv	97
72) 4-Ethyltoluene	11.138	105	30234	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.212	105	26942	0.540	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	29750	0.543	ppbv	94
75) 1,3-Dichlorobenzene	11.617	146	16311	0.524	ppbv	95
76) 1,4-Dichlorobenzene	11.681	146	16803	0.533	ppbv	98
77) 1,2-Dichlorobenzene	11.956	146	16306	0.535	ppbv	97
78) Hexachloro-1,3-Butadiene	13.885	225	14165	0.567	ppbv	99
79) Naphthalene	13.520	128	24056	0.491	ppbv	96
80) Naphthalene,2-methyl-	14.465	142	7482	0.405	ppbv	95
81) 1,2,4-Trichlorobenzene	13.449	180	10844	0.434	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042846.D
 Acq On : 13 Aug 2025 10:53
 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

08/14/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: Aug 14 01:49:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							08/18/2025
1) Bromochloromethane	2.790	49	123711	10.000	ppbv	0.00	
33) 1,4-Difluorobenzene	3.962	114	390520	10.000	ppbv	0.00	
55) Chlorobenzene-d5	8.888	117	345073	10.000	ppbv	0.00	
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	257439	9.948	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%	
Target Compounds							Qvalue
5) Vinyl Chloride	1.583	62	790	0.110	ppbv	#	86
32) 1,1,1-Trichloroethane	3.373	97	3128m	0.113	ppbv		
35) Carbon Tetrachloride	3.774	117	2883	0.107	ppbv		89
38) Trichloroethene	4.557	130	1748m	0.102	ppbv		
52) Tetrachloroethene	8.234	164	1479m	0.109	ppbv		
54) 1,2-Dibromoethane	7.665	107	2339m	0.111	ppbv		
63) 1,1,2,2-Tetrachloroethane	9.972	83	2672	0.102	ppbv		99
79) Naphthalene	13.520	128	4051m	0.083	ppbv		

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042846.D
Acq On : 13 Aug 2025 10:53
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

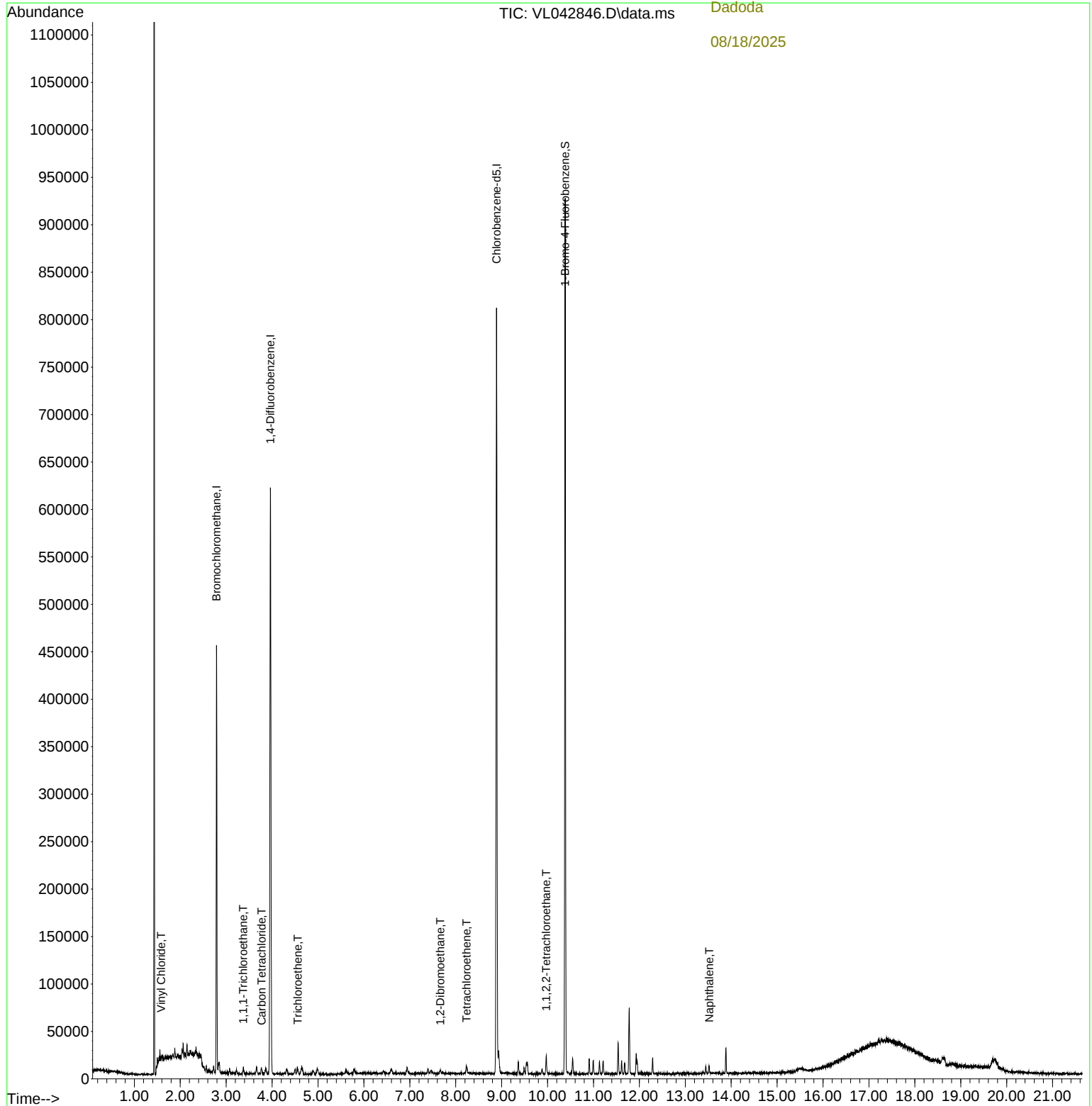
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

08/14/2025
Supervised By :Mahesh
Dadoda

08/18/2025

Quant Time: Aug 14 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042847.D
 Acq On : 13 Aug 2025 11:30
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:50:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	122705	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	390076	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	339700	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	250082	9.816	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	268	0.037	ppbv #	81
32) 1,1,1-Trichloroethane	3.379	97	901m	0.033	ppbv	
35) Carbon Tetrachloride	3.774	117	861m	0.032	ppbv	
38) Trichloroethene	4.573	130	487m	0.029	ppbv	
52) Tetrachloroethene	8.241	164	458m	0.034	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.979	83	898m	0.035	ppbv	

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

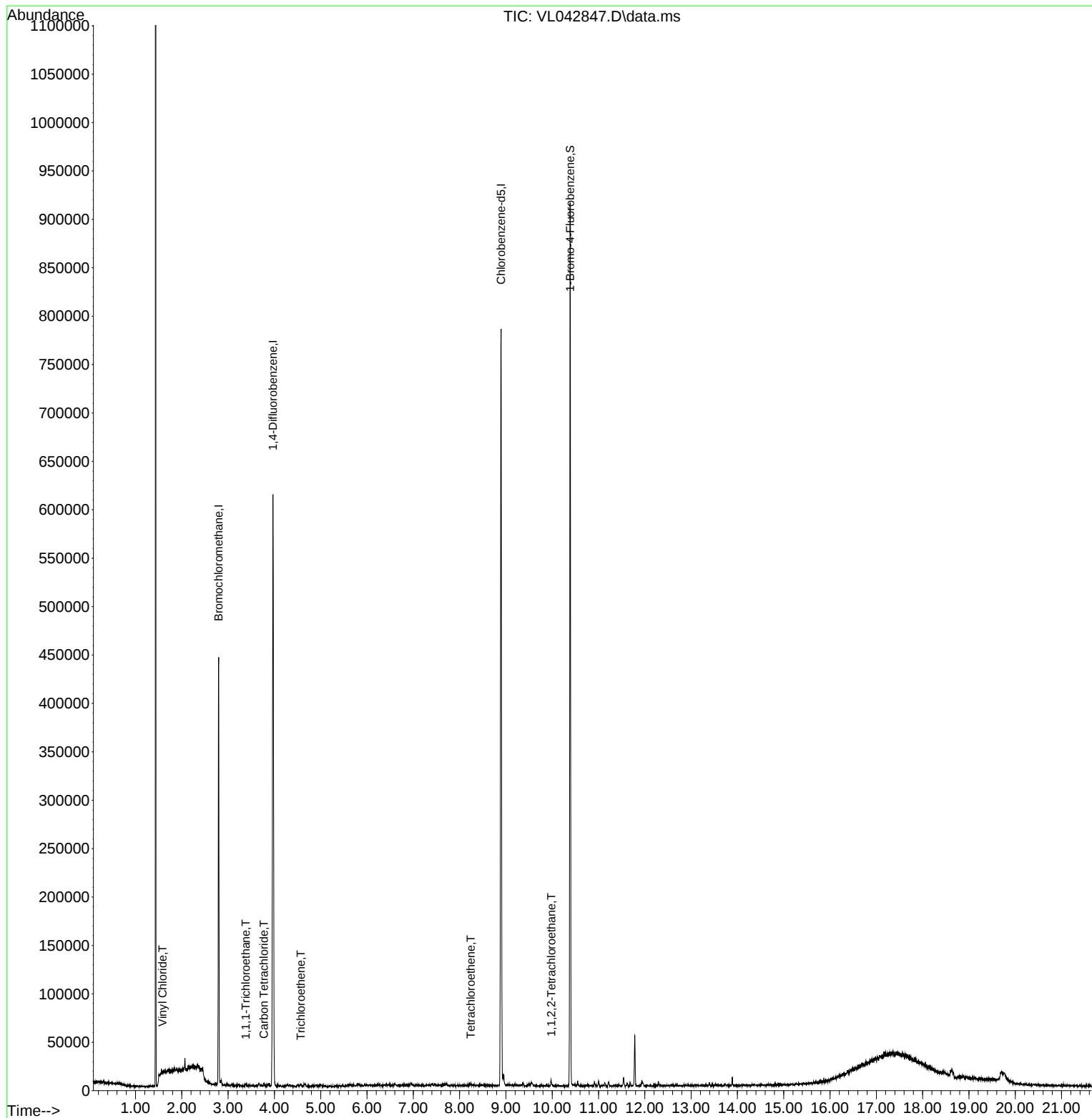
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042847.D
Acq On : 13 Aug 2025 11:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Aug 14 01:50:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
Supervised By : Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	122073	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	380877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	337876	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 254655 10.050 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	253151	14.150	ppbv	99
3) Chlorodifluoromethane	1.480	51	275350	13.910	ppbv	99
4) Chloromethane	1.535	50	100974	13.986	ppbv	99
5) Vinyl Chloride	1.583	62	92812	13.053	ppbv	100
6) Bromomethane	1.671	94	37740	13.275	ppbv	96
7) Chloroethane	1.706	64	38398	13.828	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	205386	14.029	ppbv	98
9) Propene	1.486	41	111824	13.094	ppbv	99
10) Heptane	4.988	43	313734	13.742	ppbv	99
11) Trichlorofluoromethane	1.881	101	246354	13.957	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	195231	13.877	ppbv	99
13) Ethanol	1.722	45	8534	10.086	ppbv	98
14) Bromoethene	1.784	108	71671	14.072	ppbv	99
15) Acetone	1.839	43	184116	11.402	ppbv	100
16) 1,3-Butadiene	1.612	39	92068	12.577	ppbv	100
17) tert-Butyl alcohol	2.043	59	244441	12.765	ppbv	100
18) 1,1-Dichloroethene	2.036	96	86349	13.961	ppbv	97
19) Isopropyl Alcohol	1.887	45	124270	12.885	ppbv	99
20) Methylene Chloride	2.065	84	77749	11.494	ppbv	97
21) Allyl Chloride	2.101	41	156318	13.703	ppbv	95
22) trans-1,2-Dichloroethene	2.344	96	100064	14.465	ppbv	95
23) Vinyl Acetate	2.467	43	309236	14.557	ppbv	98
24) 1,1-Dichloroethane	2.412	63	199276	13.944	ppbv	98
25) Ethyl Acetate	2.839	43	533600	13.653	ppbv	99
26) Hexane	2.833	57	250189	13.869	ppbv	98
27) Carbon Disulfide	2.153	76	246868	14.062	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	129978	14.131	ppbv	91
29) Chloroform	2.855	83	360661	14.003	ppbv	99
30) Cyclohexane	3.865	84	222820	14.088	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	249376	13.821	ppbv	96
32) 1,1,1-Trichloroethane	3.376	97	377739	13.851	ppbv	100
34) 2-Butanone	2.561	43	348815	13.563	ppbv	99
35) Carbon Tetrachloride	3.771	117	367354	13.990	ppbv	97
36) Benzene	3.664	78	511811	14.033	ppbv	99
37) 1,2-Dichloroethane	3.224	62	278934	14.639	ppbv	99
38) Trichloroethene	4.558	130	227091	13.634	ppbv	96
39) 1,2-Dichloropropane	4.325	63	186277	13.984	ppbv	95
40) 1,4-Dioxane	4.593	88	82385	13.212	ppbv #	91
41) Tetrahydrofuran	3.056	42	200751	14.001	ppbv	99
42) Bromodichloromethane	4.499	83	408089	14.372	ppbv	97
43) Methyl Methacrylate	4.888	69	206590	13.808	ppbv	99
44) 2,2,4-Trimethylpentane	4.652	57	850847	13.895	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	244117	14.387	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	302339	14.191	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	199067	14.118	ppbv	98
48) Dibromochloromethane	7.399	129	331947	14.535	ppbv	99
49) Bromoform	9.494	173	266732	14.162	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	490917	14.073	ppbv	100
51) 2-Hexanone	7.448	43	389940	14.255	ppbv	100
52) Tetrachloroethene	8.238	164	168712	12.772	ppbv	98
53) Toluene	6.943	91	605941	13.961	ppbv	100
54) 1,2-Dibromoethane	7.665	107	292327	14.173	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.934	131	241293	13.810	ppbv	99
57) Chlorobenzene	8.934	112	439109	13.668	ppbv	99
58) Ethyl Benzene	9.364	91	826316	13.859	ppbv	99
59) m/p-Xylene	9.561	91	1294381m	27.650	ppbv	
60) o-Xylene	9.973	91	629445	13.389	ppbv	100
61) Styrene	9.882	104	304560	13.827	ppbv	99
62) Isopropylbenzene	10.549	105	931574	13.559	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.973	83	342890	13.356	ppbv	98
64) n-propylbenzene	10.999	120	239209	13.646	ppbv	98
65) tert-Butylbenzene	11.539	119	785250	12.965	ppbv	98
66) Benzyl Chloride	11.623	91	104698	13.617	ppbv	99
67) sec-Butylbenzene	11.775	105	1115979	13.127	ppbv	100
69) p-Isopropyltoluene	11.931	119	940888	12.891	ppbv	98
70) n-Butylbenzene	12.287	91	970700	13.410	ppbv	100
71) 2-Chlorotoluene	10.911	91	713696	13.378	ppbv	99
72) 4-Ethyltoluene	11.134	105	782057	13.722	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	650280	13.418	ppbv	99
74) 1,2,4-Trimethylbenzene	11.546	105	691709	13.003	ppbv	95
75) 1,3-Dichlorobenzene	11.617	146	402850	13.321	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	407214	13.314	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	385866	13.031	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	281581	11.602	ppbv	99
79) Naphthalene	13.517	128	658732	13.837	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	251753	14.042	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	329641	13.599	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	122486	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	374448	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	333493	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 252268 10.086 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	163446	9.105	ppbv	96
3) Chlorodifluoromethane	1.476	51	185078	9.327	ppbv	100
4) Chloromethane	1.535	50	63634	8.784	ppbv	100
5) Vinyl Chloride	1.583	62	58729	8.232	ppbv	96
6) Bromomethane	1.670	94	25105	8.801	ppbv	97
7) Chloroethane	1.706	64	23293	8.360	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	135845	9.248	ppbv	99
9) Propene	1.483	41	76457	8.922	ppbv	97
10) Heptane	4.988	43	206333	8.990	ppbv	99
11) Trichlorofluoromethane	1.881	101	154211	8.707	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.143	101	124558	8.824	ppbv	99
13) Ethanol	1.722	45	6016	7.678	ppbv	96
14) Bromoethene	1.784	108	46528	9.105	ppbv	98
15) Acetone	1.839	43	119723	7.389	ppbv	99
16) 1,3-Butadiene	1.612	39	60853	8.285	ppbv	99
17) tert-Butyl alcohol	2.043	59	166457	8.663	ppbv	99
18) 1,1-Dichloroethene	2.036	96	56397	9.087	ppbv	94
19) Isopropyl Alcohol	1.887	45	78832	8.146	ppbv	98
20) Methylene Chloride	2.065	84	47793	7.041	ppbv	90
21) Allyl Chloride	2.098	41	102514	8.956	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	63932	8.904	ppbv	95
23) Vinyl Acetate	2.467	43	198083	8.891	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	127660	8.903	ppbv	99
25) Ethyl Acetate	2.839	43	362325	9.240	ppbv	99
26) Hexane	2.829	57	167364	9.246	ppbv	97
27) Carbon Disulfide	2.153	76	155729	8.841	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	82126	8.898	ppbv	92
29) Chloroform	2.855	83	242320	9.377	ppbv	99
30) Cyclohexane	3.865	84	147417	9.289	ppbv	99
31) cis-1,2-Dichloroethene	2.726	61	166268	9.196	ppbv	99
32) 1,1,1-Trichloroethane	3.373	97	252813	9.256	ppbv	99
34) 2-Butanone	2.561	43	230961	9.135	ppbv	100
35) Carbon Tetrachloride	3.771	117	244671	9.478	ppbv	95
36) Benzene	3.664	78	343952	9.592	ppbv	98
37) 1,2-Dichloroethane	3.224	62	187160	9.991	ppbv	100
38) Trichloroethene	4.558	130	150693	9.202	ppbv	96
39) 1,2-Dichloropropane	4.324	63	123566	9.436	ppbv	97
40) 1,4-Dioxane	4.590	88	55292	8.879	ppbv #	93
41) Tetrahydrofuran	3.059	42	132108	9.372	ppbv	99
42) Bromodichloromethane	4.499	83	270154	9.678	ppbv	99
43) Methyl Methacrylate	4.888	69	136329	9.229	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	565415	9.290	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	160784	9.645	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	199988m	9.628	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	132548	9.553	ppbv	99
48) Dibromochloromethane	7.399	129	217970	9.708	ppbv	100
49) Bromoform	9.493	173	174914	9.446	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	322264	9.430	ppbv	100
51) 2-Hexanone	7.445	43	263321	9.791	ppbv #	98
52) Tetrachloroethene	8.234	164	110828	8.544	ppbv	89
53) Toluene	6.946	91	398138	9.340	ppbv	100
54) 1,2-Dibromoethane	7.665	107	193340	9.535	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.937	131	160225	9.291	ppbv	99
57) Chlorobenzene	8.933	112	297375	9.378	ppbv	97
58) Ethyl Benzene	9.364	91	554015	9.414	ppbv	100
59) m/p-Xylene	9.561	91	865106m	18.754	ppbv	
60) o-Xylene	9.972	91	428721	9.239	ppbv	99
61) Styrene	9.879	104	203858	9.377	ppbv	100
62) Isopropylbenzene	10.549	105	624287	9.206	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	225237	8.826	ppbv	100
64) n-propylbenzene	10.998	120	158234	9.145	ppbv	97
65) tert-Butylbenzene	11.539	119	534795	8.946	ppbv	98
66) Benzyl Chloride	11.623	91	68533	9.031	ppbv	99
67) sec-Butylbenzene	11.775	105	762602	9.088	ppbv	100
69) p-Isopropyltoluene	11.934	119	634670	8.810	ppbv	98
70) n-Butylbenzene	12.287	91	647453	9.062	ppbv	99
71) 2-Chlorotoluene	10.908	91	485171	9.214	ppbv	98
72) 4-Ethyltoluene	11.131	105	525262	9.338	ppbv	100
73) 1,3,5-Trimethylbenzene	11.212	105	435705	9.108	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	469573	8.943	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	274876	9.209	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	270976	8.976	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	255347	8.736	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	186318	7.778	ppbv	97
79) Naphthalene	13.520	128	441940	9.284	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	145644	8.188	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	215715	9.016	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	92	0.00
2 T	Dichlorodifluoromethane	1.466	1.334	9.0	91	0.00
3	Chlorodifluoromethane	1.620	1.511	6.7	92	0.00
4	Chloromethane	0.591	0.520	12.0	90	0.00
5 T	Vinyl Chloride	0.582	0.479	17.7	88	0.00
6 T	Bromomethane	0.233	0.205	12.0	93	0.00
7	Chloroethane	0.227	0.190	16.3	87	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.109	7.5	91	0.00
9 T	Propene	0.700	0.624	10.9	88	0.00
10 T	Heptane	1.874	1.685	10.1	90	0.00
11 T	Trichlorofluoromethane	1.446	1.259	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.017	11.7	89	0.00
13	Ethanol	0.064	0.049#	23.4	97	0.00
14 T	Bromoethene	0.417	0.380	8.9	92	0.00
15 T	Acetone	1.323	0.977	26.2	95	0.00
16 T	1,3-Butadiene	0.600	0.497	17.2	91	0.00
17	tert-Butyl alcohol	1.569	1.359	13.4	91	0.00
18 T	1,1-Dichloroethene	0.507	0.460	9.3	90	0.00
19 T	Isopropyl Alcohol	0.790	0.644	18.5	91	0.00
20 T	Methylene Chloride	0.554	0.390	29.6	87	0.00
21 T	Allyl Chloride	0.935	0.837	10.5	91	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.522	10.9	89	0.00
23 T	Vinyl Acetate	1.819	1.617	11.1	89	0.00
24 T	1,1-Dichloroethane	1.171	1.042	11.0	92	0.00
25 T	Ethyl Acetate	3.202	2.958	7.6	93	0.00
26 T	Hexane	1.478	1.366	7.6	90	0.00
27 T	Carbon Disulfide	1.438	1.271	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.670	11.1	93	0.00
29 T	Chloroform	2.110	1.978	6.3	94	0.00
30 T	Cyclohexane	1.296	1.204	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	1.476	1.357	8.1	93	0.00
32 T	1,1,1-Trichloroethane	2.230	2.064	7.4	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.675	0.617	8.6	92	0.00
35 T	Carbon Tetrachloride	0.689	0.653	5.2	93	0.00
36 T	Benzene	0.958	0.919	4.1	91	0.00
37 T	1,2-Dichloroethane	0.500	0.500	0.0	94	0.00
38 T	Trichloroethene	0.437	0.402	8.0	91	0.00
39 T	1,2-Dichloropropane	0.350	0.330	5.7	92	0.00
40 T	1,4-Dioxane	0.166	0.148	10.8	90	0.00
41 T	Tetrahydrofuran	0.376	0.353	6.1	90	0.00
42 T	Bromodichloromethane	0.745	0.721	3.2	92	0.00
43	Methyl Methacrylate	0.394	0.364	7.6	90	0.00
44 T	2,2,4-Trimethylpentane	1.625	1.510	7.1	90	0.00
45 T	t-1,3-Dichloropropene	0.445	0.429	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	0.555	0.534	3.8	90	0.00
47 T	1,1,2-Trichloroethane	0.371	0.354	4.6	94	0.00
48 T	Dibromochloromethane	0.600	0.582	3.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	0.495	0.467	5.7	86	0.00
50 T	4-Methyl-2-Pentanone	0.913	0.861	5.7	88	0.00
51 T	2-Hexanone	0.718	0.703	2.1	91	0.00
52 T	Tetrachloroethene	0.346	0.296	14.5	86	0.00
53 T	Toluene	1.138	1.063	6.6	90	0.00
54 T	1,2-Dibromoethane	0.542	0.516	4.8	92	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.480	7.2	91	0.00
57 T	Chlorobenzene	0.951	0.892	6.2	91	0.00
58 T	Ethyl Benzene	1.765	1.661	5.9	91	0.00
59 T	m/p-Xylene	1.383	1.297	6.2	91	0.02
60 T	o-Xylene	1.391	1.286	7.5	91	0.00
61 T	Styrene	0.652	0.611	6.3	90	0.00
62	Isopropylbenzene	2.033	1.872	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.675	11.8	90	0.00
64	n-propylbenzene	0.519	0.474	8.7	90	0.00
65	tert-Butylbenzene	1.793	1.604	10.5	90	0.00
66 T	Benzyl Chloride	0.228	0.206	9.6	81	0.00
67	sec-Butylbenzene	2.516	2.287	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.756	-0.8	90	0.00
69	p-Isopropyltoluene	2.160	1.903	11.9	90	0.00
70	n-Butylbenzene	2.142	1.941	9.4	91	0.00
71	2-Chlorotoluene	1.579	1.455	7.9	92	0.00
72 T	4-Ethyltoluene	1.687	1.575	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.306	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.408	10.5	91	0.00
75 T	1,3-Dichlorobenzene	0.895	0.824	7.9	89	0.00
76 T	1,4-Dichlorobenzene	0.905	0.813	10.2	88	0.00
77 T	1,2-Dichlorobenzene	0.876	0.766	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.559	22.1	88	0.00
79 T	Naphthalene	1.427	1.325	7.1	91	0.00
80 T	Naphthalene,2-methyl-	0.533	0.437	18.0	82	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.647	9.8	88	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	92	0.00
2 T	Dichlorodifluoromethane	10.000	9.105	8.9	91	0.00
3	Chlorodifluoromethane	10.000	9.327	6.7	92	0.00
4	Chloromethane	10.000	8.784	12.2	90	0.00
5 T	Vinyl Chloride	10.000	8.232	17.7	88	0.00
6 T	Bromomethane	10.000	8.801	12.0	93	0.00
7	Chloroethane	10.000	8.360	16.4	87	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.248	7.5	91	0.00
9 T	Propene	10.000	8.922	10.8	88	0.00
10 T	Heptane	10.000	8.990	10.1	90	0.00
11 T	Trichlorofluoromethane	10.000	8.707	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.824	11.8	89	0.00
13	Ethanol	10.000	7.678	23.2	97	0.00
14 T	Bromoethene	10.000	9.105	8.9	92	0.00
15 T	Acetone	10.000	7.389	26.1	95	0.00
16 T	1,3-Butadiene	10.000	8.285	17.1	91	0.00
17	tert-Butyl alcohol	10.000	8.663	13.4	91	0.00
18 T	1,1-Dichloroethene	10.000	9.087	9.1	90	0.00
19 T	Isopropyl Alcohol	10.000	8.146	18.5	91	0.00
20 T	Methylene Chloride	10.000	7.041	29.6	87	0.00
21 T	Allyl Chloride	10.000	8.956	10.4	91	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.904	11.0	89	0.00
23 T	Vinyl Acetate	10.000	8.891	11.1	89	0.00
24 T	1,1-Dichloroethane	10.000	8.903	11.0	92	0.00
25 T	Ethyl Acetate	10.000	9.240	7.6	93	0.00
26 T	Hexane	10.000	9.246	7.5	90	0.00
27 T	Carbon Disulfide	10.000	8.841	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.898	11.0	93	0.00
29 T	Chloroform	10.000	9.377	6.2	94	0.00
30 T	Cyclohexane	10.000	9.289	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.196	8.0	93	0.00
32 T	1,1,1-Trichloroethane	10.000	9.256	7.4	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34 T	2-Butanone	10.000	9.135	8.7	92	0.00
35 T	Carbon Tetrachloride	10.000	9.478	5.2	93	0.00
36 T	Benzene	10.000	9.592	4.1	91	0.00
37 T	1,2-Dichloroethane	10.000	9.991	0.1	94	0.00
38 T	Trichloroethene	10.000	9.202	8.0	91	0.00
39 T	1,2-Dichloropropane	10.000	9.436	5.6	92	0.00
40 T	1,4-Dioxane	10.000	8.879	11.2	90	0.00
41 T	Tetrahydrofuran	10.000	9.372	6.3	90	0.00
42 T	Bromodichloromethane	10.000	9.678	3.2	92	0.00
43	Methyl Methacrylate	10.000	9.229	7.7	90	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.290	7.1	90	0.00
45 T	t-1,3-Dichloropropene	10.000	9.645	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.628	3.7	90	0.00
47 T	1,1,2-Trichloroethane	10.000	9.553	4.5	94	0.00
48 T	Dibromochloromethane	10.000	9.708	2.9	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	9.446	5.5	86	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.430	5.7	88	0.00
51 T	2-Hexanone	10.000	9.791	2.1	91	0.00
52 T	Tetrachloroethene	10.000	8.544	14.6	86	0.00
53 T	Toluene	10.000	9.340	6.6	90	0.00
54 T	1,2-Dibromoethane	10.000	9.535	4.6	92	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.291	7.1	91	0.00
57 T	Chlorobenzene	10.000	9.378	6.2	91	0.00
58 T	Ethyl Benzene	10.000	9.414	5.9	91	0.00
59 T	m/p-Xylene	20.000	18.754	6.2	91	0.02
60 T	o-Xylene	10.000	9.239	7.6	91	0.00
61 T	Styrene	10.000	9.377	6.2	90	0.00
62	Isopropylbenzene	10.000	9.206	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.826	11.7	90	0.00
64	n-propylbenzene	10.000	9.145	8.6	90	0.00
65	tert-Butylbenzene	10.000	8.946	10.5	90	0.00
66 T	Benzyl Chloride	10.000	9.031	9.7	81	0.00
67	sec-Butylbenzene	10.000	9.088	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.086	-0.9	90	0.00
69	p-Isopropyltoluene	10.000	8.810	11.9	90	0.00
70	n-Butylbenzene	10.000	9.062	9.4	91	0.00
71	2-Chlorotoluene	10.000	9.214	7.9	92	0.00
72 T	4-Ethyltoluene	10.000	9.338	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.108	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.943	10.6	91	0.00
75 T	1,3-Dichlorobenzene	10.000	9.209	7.9	89	0.00
76 T	1,4-Dichlorobenzene	10.000	8.976	10.2	88	0.00
77 T	1,2-Dichlorobenzene	10.000	8.736	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.778	22.2	88	0.00
79 T	Naphthalene	10.000	9.284	7.2	91	0.00
80 T	Naphthalene,2-methyl-	10.000	8.188	18.1	82	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.016	9.8	88	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GFEL01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3000</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>09/04/2025 12:21</u>
Lab File ID:	<u>VL042888.D</u>	Init. Calib. Date(s):	<u>08/13/2025 08/13/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>08:30 12:06</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.582	0.546		-6.19	30
Heptane	1.874	1.801		-3.89	30
1,1-Dichloroethene	0.507	0.509		0.39	30
Cyclohexane	1.296	1.224		-5.56	30
cis-1,2-Dichloroethene	1.476	1.469		-0.47	30
1,1,1-Trichloroethane	2.230	2.242		0.54	30
2,2,4-Trimethylpentane	1.625	1.740		7.08	30
Benzene	0.958	1.039		8.45	30
Trichloroethene	0.437	0.437		0	30
Toluene	1.138	1.173		3.08	30
Tetrachloroethene	0.346	0.324		-6.36	30
Ethyl Benzene	1.765	1.885		6.8	30
m/p-Xylene	1.383	1.521		9.98	30
o-Xylene	1.391	1.527		9.78	30
1,3,5-Trimethylbenzene	1.434	1.516		5.72	30
1,2,4-Trimethylbenzene	1.574	1.696		7.75	30
Naphthalene	1.427	1.454		1.89	30
1-Bromo-4-Fluorobenzene	0.750	0.780		4	30
Hexane	1.478	1.464		-0.95	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\VL090425\
 Data File : VL042888.D
 Acq On : 04 Sep 2025 12:21
 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 09/05/2025
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 01:20:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	126170	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	354548	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	305322	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 238170 10.401 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	193328	10.455	ppbv	100
3) Chlorodifluoromethane	1.479	51	217495	10.641	ppbv	100
4) Chloromethane	1.538	50	76287	10.223	ppbv	99
5) Vinyl Chloride	1.583	62	68873	9.372	ppbv	99
6) Bromomethane	1.670	94	28366	9.653	ppbv	94
7) Chloroethane	1.709	64	26816	9.344	ppbv	90
8) Dichlorotetrafluoroethane	1.557	85	156776	10.361	ppbv	94
9) Propene	1.486	41	84339	9.555	ppbv	97
10) Heptane	4.994	43	227172	9.609	ppbv	99
11) Trichlorofluoromethane	1.881	101	180337	9.885	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.146	101	145704	10.020	ppbv	96
13) Ethanol	1.725	45	6319	7.829	ppbv	92
14) Bromoethene	1.787	108	50855	9.661	ppbv	97
15) Acetone	1.839	43	140571	8.422	ppbv	98
16) 1,3-Butadiene	1.612	39	67467	8.917	ppbv	98
17) tert-Butyl alcohol	2.046	59	172174	8.699	ppbv	98
18) 1,1-Dichloroethene	2.039	96	64265	10.053	ppbv	96
19) Isopropyl Alcohol	1.890	45	88687	8.897	ppbv	97
20) Methylene Chloride	2.065	84	56482	8.079	ppbv	92
21) Allyl Chloride	2.101	41	111750	9.478	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	72316	9.778	ppbv	96
23) Vinyl Acetate	2.470	43	240753	10.491	ppbv	99
24) 1,1-Dichloroethane	2.415	63	144798	9.803	ppbv	99
25) Ethyl Acetate	2.842	43	402614	9.967	ppbv	98
26) Hexane	2.832	57	184675	9.905	ppbv	96
27) Carbon Disulfide	2.156	76	186403	10.273	ppbv	98
28) Methyl tert-Butyl Ether	2.447	73	90259	9.494	ppbv	94
29) Chloroform	2.855	83	280390	10.533	ppbv	99
30) Cyclohexane	3.868	84	154459	9.449	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	185311	9.950	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	282844	10.053	ppbv	99
34) 2-Butanone	2.564	43	267855	11.188	ppbv	99
35) Carbon Tetrachloride	3.774	117	277458	11.351	ppbv	97
36) Benzene	3.667	78	368328	10.849	ppbv	98
37) 1,2-Dichloroethane	3.227	62	216745	12.220	ppbv	97
38) Trichloroethene	4.561	130	155001	9.997	ppbv	92
39) 1,2-Dichloropropane	4.324	63	135713	10.945	ppbv	95
40) 1,4-Dioxane	4.596	88	57426	9.739	ppbv #	89
41) Tetrahydrofuran	3.062	42	144304	10.811	ppbv	98
42) Bromodichloromethane	4.502	83	312742	11.832	ppbv	98
43) Methyl Methacrylate	4.897	69	142269	10.172	ppbv	97
44) 2,2,4-Trimethylpentane	4.654	57	616871	10.705	ppbv	99
45) t-1,3-Dichloropropene	6.431	75	162419	10.290	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
 Data File : VL042888.D
 Acq On : 04 Sep 2025 12:21
 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 09/05/2025
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 01:20:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	208989	10.626	ppbv	99
47) 1,1,2-Trichloroethane	6.596	97	143562	10.928	ppbv	98
48) Dibromochloromethane	7.402	129	238088	11.199	ppbv	99
49) Bromoform	9.496	173	186758	10.652	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	352340	10.888	ppbv	98
51) 2-Hexanone	7.448	43	281377	11.050	ppbv #	97
52) Tetrachloroethene	8.237	164	114794	9.346	ppbv	93
53) Toluene	6.946	91	415989	10.306	ppbv	100
54) 1,2-Dibromoethane	7.665	107	207852	10.826	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.940	131	172051	10.897	ppbv	100
57) Chlorobenzene	8.933	112	308473	10.626	ppbv	95
58) Ethyl Benzene	9.367	91	575425	10.680	ppbv	98
59) m/p-Xylene	9.564	91	928810m	21.993	ppbv	
60) o-Xylene	9.975	91	466103	10.972	ppbv	98
61) Styrene	9.885	104	201466	10.122	ppbv	99
62) Isopropylbenzene	10.548	105	663141	10.681	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.975	83	264816	11.335	ppbv	98
64) n-propylbenzene	10.998	120	167388	10.567	ppbv	92
65) tert-Butylbenzene	11.539	119	573769	10.483	ppbv	95
66) Benzyl Chloride	11.623	91	52019	7.487	ppbv	97
67) sec-Butylbenzene	11.775	105	835362	10.874	ppbv	98
69) p-Isopropyltoluene	11.934	119	675014	10.234	ppbv	98
70) n-Butylbenzene	12.290	91	720311	11.012	ppbv	98
71) 2-Chlorotoluene	10.911	91	510985	10.599	ppbv	98
72) 4-Ethyltoluene	11.134	105	555877	10.794	ppbv	98
73) 1,3,5-Trimethylbenzene	11.212	105	462968	10.571	ppbv	98
74) 1,2,4-Trimethylbenzene	11.545	105	517749	10.770	ppbv	98
75) 1,3-Dichlorobenzene	11.616	146	293988	10.758	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	290294	10.504	ppbv	98
77) 1,2-Dichlorobenzene	11.956	146	285558	10.671	ppbv	98
78) Hexachloro-1,3-Butadiene	13.889	225	175105	7.984	ppbv	98
79) Naphthalene	13.520	128	444012	10.188	ppbv	98
80) Naphthalene,2-methyl-	14.465	142	141188	8.670	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	216348	9.877	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
 Data File : VL042888.D
 Acq On : 04 Sep 2025 12:21
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 05 01:20:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	95	0.00
2 T	Dichlorodifluoromethane	1.466	1.532	-4.5	108	0.00
3	Chlorodifluoromethane	1.620	1.724	-6.4	108	0.00
4	Chloromethane	0.591	0.605	-2.4	108	0.00
5 T	Vinyl Chloride	0.582	0.546	6.2	103	0.00
6 T	Bromomethane	0.233	0.225	3.4	105	0.00
7	Chloroethane	0.227	0.213	6.2	100	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.243	-3.7	105	0.00
9 T	Propene	0.700	0.668	4.6	97	0.00
10 T	Heptane	1.874	1.801	3.9	99	0.00
11 T	Trichlorofluoromethane	1.446	1.429	1.2	107	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.155	-0.3	105	0.00
13	Ethanol	0.064	0.050	21.9	102	0.00
14 T	Bromoethene	0.417	0.403	3.4	100	0.00
15 T	Acetone	1.323	1.114	15.8	111	0.00
16 T	1,3-Butadiene	0.600	0.535	10.8	101	0.00
17	tert-Butyl alcohol	1.569	1.365	13.0	94	0.00
18 T	1,1-Dichloroethene	0.507	0.509	-0.4	103	0.00
19 T	Isopropyl Alcohol	0.790	0.703	11.0	103	0.00
20 T	Methylene Chloride	0.554	0.448	19.1	102	0.00
21 T	Allyl Chloride	0.935	0.886	5.2	99	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.573	2.2	101	0.00
23 T	Vinyl Acetate	1.819	1.908	-4.9	109	0.00
24 T	1,1-Dichloroethane	1.171	1.148	2.0	105	0.00
25 T	Ethyl Acetate	3.202	3.191	0.3	103	0.00
26 T	Hexane	1.478	1.464	0.9	100	0.00
27 T	Carbon Disulfide	1.438	1.477	-2.7	107	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.715	5.2	103	0.00
29 T	Chloroform	2.110	2.222	-5.3	109	0.00
30 T	Cyclohexane	1.296	1.224	5.6	96	0.00
31 T	cis-1,2-Dichloroethene	1.476	1.469	0.5	103	0.00
32 T	1,1,1-Trichloroethane	2.230	2.242	-0.5	106	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	86	0.00
34 T	2-Butanone	0.675	0.755	-11.9	106	0.00
35 T	Carbon Tetrachloride	0.689	0.783	-13.6	106	0.00
36 T	Benzene	0.958	1.039	-8.5	98	0.00
37 T	1,2-Dichloroethane	0.500	0.611	-22.2	109	0.00
38 T	Trichloroethene	0.437	0.437	0.0	94	0.00
39 T	1,2-Dichloropropane	0.350	0.383	-9.4	101	0.00
40 T	1,4-Dioxane	0.166	0.162	2.4	94	0.00
41 T	Tetrahydrofuran	0.376	0.407	-8.2	98	0.00
42 T	Bromodichloromethane	0.745	0.882	-18.4	107	0.00
43	Methyl Methacrylate	0.394	0.401	-1.8	94	0.00
44 T	2,2,4-Trimethylpentane	1.625	1.740	-7.1	98	0.00
45 T	t-1,3-Dichloropropene	0.445	0.458	-2.9	92	0.00
46 T	cis-1,3-Dichloropropene	0.555	0.589	-6.1	94	0.00
47 T	1,1,2-Trichloroethane	0.371	0.405	-9.2	102	0.00
48 T	Dibromochloromethane	0.600	0.672	-12.0	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
 Data File : VL042888.D
 Acq On : 04 Sep 2025 12:21
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 05 01:20:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	0.495	0.527	-6.5	92	0.00
50 T	4-Methyl-2-Pentanone	0.913	0.994	-8.9	97	0.00
51 T	2-Hexanone	0.718	0.794	-10.6	97	0.00
52 T	Tetrachloroethene	0.346	0.324	6.4	89	0.00
53 T	Toluene	1.138	1.173	-3.1	94	0.00
54 T	1,2-Dibromoethane	0.542	0.586	-8.1	99	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	82	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.564	-9.1	98	0.00
57 T	Chlorobenzene	0.951	1.010	-6.2	95	0.00
58 T	Ethyl Benzene	1.765	1.885	-6.8	95	0.00
59 T	m/p-Xylene	1.383	1.521	-10.0	98	0.02
60 T	o-Xylene	1.391	1.527	-9.8	99	0.00
61 T	Styrene	0.652	0.660	-1.2	89	0.00
62	Isopropylbenzene	2.033	2.172	-6.8	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.867	-13.3	106	0.00
64	n-propylbenzene	0.519	0.548	-5.6	95	0.00
65	tert-Butylbenzene	1.793	1.879	-4.8	97	0.00
66 T	Benzyl Chloride	0.228	0.170	25.4	62	0.00
67	sec-Butylbenzene	2.516	2.736	-8.7	100	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.780	-4.0	85	0.00
69	p-Isopropyltoluene	2.160	2.211	-2.4	96	0.00
70	n-Butylbenzene	2.142	2.359	-10.1	101	0.00
71	2-Chlorotoluene	1.579	1.674	-6.0	97	0.00
72 T	4-Ethyltoluene	1.687	1.821	-7.9	96	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.516	-5.7	97	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.696	-7.8	100	0.00
75 T	1,3-Dichlorobenzene	0.895	0.963	-7.6	96	0.00
76 T	1,4-Dichlorobenzene	0.905	0.951	-5.1	94	0.00
77 T	1,2-Dichlorobenzene	0.876	0.935	-6.7	99	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.574	20.1	83	0.00
79 T	Naphthalene	1.427	1.454	-1.9	91	0.00
80 T	Naphthalene,2-methyl-	0.533	0.462	13.3	80	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.709	1.1	88	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
 Data File : VL042888.D
 Acq On : 04 Sep 2025 12:21
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 05 01:20:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	95	0.00
2 T	Dichlorodifluoromethane	10.000	10.455	-4.6	108	0.00
3	Chlorodifluoromethane	10.000	10.641	-6.4	108	0.00
4	Chloromethane	10.000	10.223	-2.2	108	0.00
5 T	Vinyl Chloride	10.000	9.372	6.3	103	0.00
6 T	Bromomethane	10.000	9.653	3.5	105	0.00
7	Chloroethane	10.000	9.344	6.6	100	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.361	-3.6	105	0.00
9 T	Propene	10.000	9.555	4.5	97	0.00
10 T	Heptane	10.000	9.609	3.9	99	0.00
11 T	Trichlorofluoromethane	10.000	9.885	1.2	107	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	10.020	-0.2	105	0.00
13	Ethanol	10.000	7.829	21.7	102	0.00
14 T	Bromoethene	10.000	9.661	3.4	100	0.00
15 T	Acetone	10.000	8.422	15.8	111	0.00
16 T	1,3-Butadiene	10.000	8.917	10.8	101	0.00
17	tert-Butyl alcohol	10.000	8.699	13.0	94	0.00
18 T	1,1-Dichloroethene	10.000	10.053	-0.5	103	0.00
19 T	Isopropyl Alcohol	10.000	8.897	11.0	103	0.00
20 T	Methylene Chloride	10.000	8.079	19.2	102	0.00
21 T	Allyl Chloride	10.000	9.478	5.2	99	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.778	2.2	101	0.00
23 T	Vinyl Acetate	10.000	10.491	-4.9	109	0.00
24 T	1,1-Dichloroethane	10.000	9.803	2.0	105	0.00
25 T	Ethyl Acetate	10.000	9.967	0.3	103	0.00
26 T	Hexane	10.000	9.905	1.0	100	0.00
27 T	Carbon Disulfide	10.000	10.273	-2.7	107	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.494	5.1	103	0.00
29 T	Chloroform	10.000	10.533	-5.3	109	0.00
30 T	Cyclohexane	10.000	9.449	5.5	96	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.950	0.5	103	0.00
32 T	1,1,1-Trichloroethane	10.000	10.053	-0.5	106	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	86	0.00
34 T	2-Butanone	10.000	11.188	-11.9	106	0.00
35 T	Carbon Tetrachloride	10.000	11.351	-13.5	106	0.00
36 T	Benzene	10.000	10.849	-8.5	98	0.00
37 T	1,2-Dichloroethane	10.000	12.220	-22.2	109	0.00
38 T	Trichloroethene	10.000	9.997	0.0	94	0.00
39 T	1,2-Dichloropropane	10.000	10.945	-9.5	101	0.00
40 T	1,4-Dioxane	10.000	9.739	2.6	94	0.00
41 T	Tetrahydrofuran	10.000	10.811	-8.1	98	0.00
42 T	Bromodichloromethane	10.000	11.832	-18.3	107	0.00
43	Methyl Methacrylate	10.000	10.172	-1.7	94	0.00
44 T	2,2,4-Trimethylpentane	10.000	10.705	-7.1	98	0.00
45 T	t-1,3-Dichloropropene	10.000	10.290	-2.9	92	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.626	-6.3	94	0.00
47 T	1,1,2-Trichloroethane	10.000	10.928	-9.3	102	0.00
48 T	Dibromochloromethane	10.000	11.199	-12.0	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
 Data File : VL042888.D
 Acq On : 04 Sep 2025 12:21
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 05 01:20:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	10.652	-6.5	92	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.888	-8.9	97	0.00
51 T	2-Hexanone	10.000	11.050	-10.5	97	0.00
52 T	Tetrachloroethene	10.000	9.346	6.5	89	0.00
53 T	Toluene	10.000	10.306	-3.1	94	0.00
54 T	1,2-Dibromoethane	10.000	10.826	-8.3	99	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	82	0.00
56	1,1,1,2-Tetrachloroethane	10.000	10.897	-9.0	98	0.00
57 T	Chlorobenzene	10.000	10.626	-6.3	95	0.00
58 T	Ethyl Benzene	10.000	10.680	-6.8	95	0.00
59 T	m/p-Xylene	20.000	21.993	-10.0	98	0.02
60 T	o-Xylene	10.000	10.972	-9.7	99	0.00
61 T	Styrene	10.000	10.122	-1.2	89	0.00
62	Isopropylbenzene	10.000	10.681	-6.8	97	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	11.335	-13.4	106	0.00
64	n-propylbenzene	10.000	10.567	-5.7	95	0.00
65	tert-Butylbenzene	10.000	10.483	-4.8	97	0.00
66 T	Benzyl Chloride	10.000	7.487	25.1	62	0.00
67	sec-Butylbenzene	10.000	10.874	-8.7	100	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.401	-4.0	85	0.00
69	p-Isopropyltoluene	10.000	10.234	-2.3	96	0.00
70	n-Butylbenzene	10.000	11.012	-10.1	101	0.00
71	2-Chlorotoluene	10.000	10.599	-6.0	97	0.00
72 T	4-Ethyltoluene	10.000	10.794	-7.9	96	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.571	-5.7	97	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.770	-7.7	100	0.00
75 T	1,3-Dichlorobenzene	10.000	10.758	-7.6	96	0.00
76 T	1,4-Dichlorobenzene	10.000	10.504	-5.0	94	0.00
77 T	1,2-Dichlorobenzene	10.000	10.671	-6.7	99	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.984	20.2	83	0.00
79 T	Naphthalene	10.000	10.188	-1.9	91	0.00
80 T	Naphthalene,2-methyl-	10.000	8.670	13.3	80	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.877	1.2	88	0.00

(#) = Out of Range

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



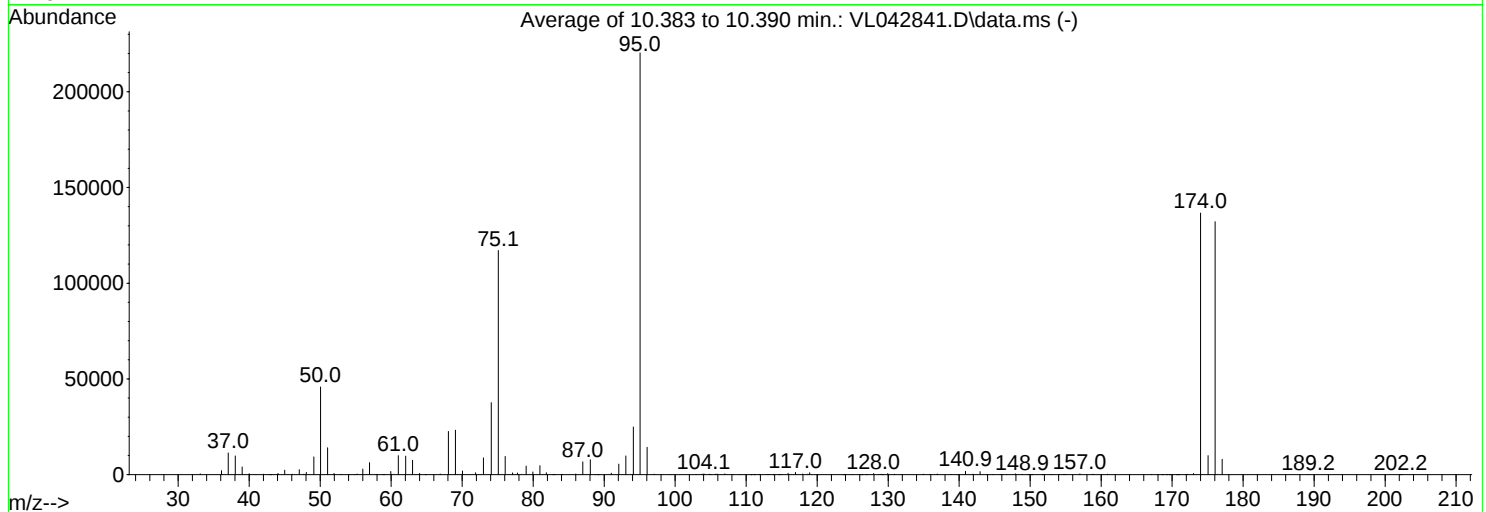
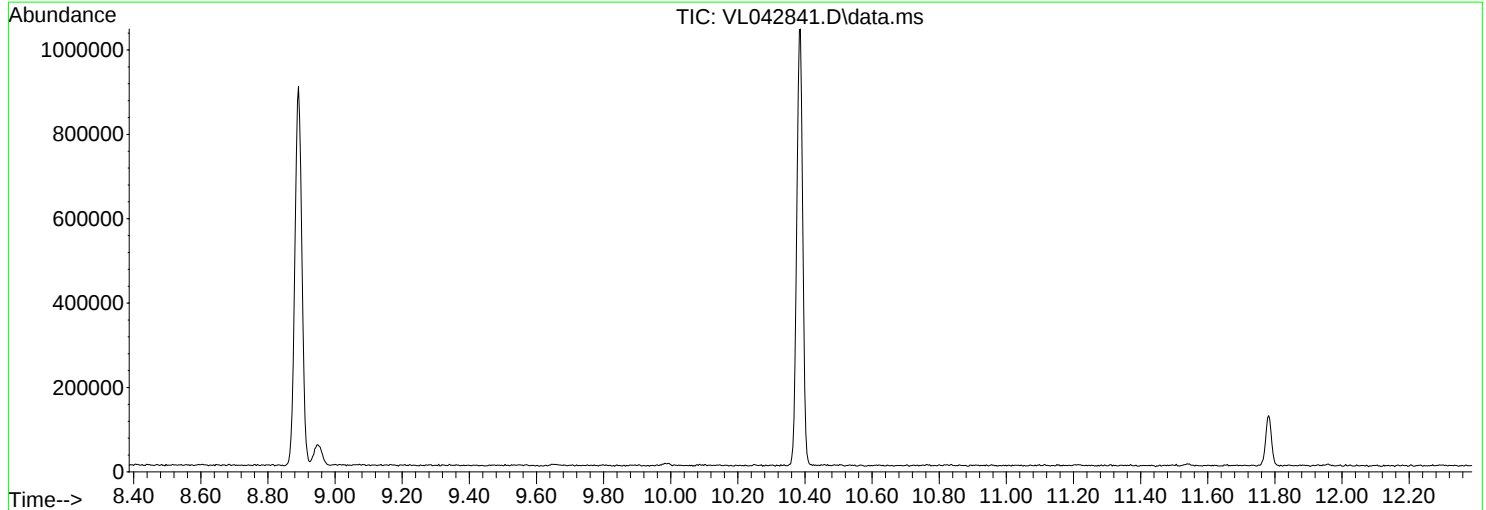
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042841.D
Acq On : 13 Aug 2025 07:45
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\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Aug 14 02:12:54 2025



AutoFind: Scans 3181, 3182, 3183; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.8	45819	PASS
75	95	30	66	53.1	117101	PASS
95	95	100	100	100.0	220336	PASS
96	95	5	9	6.5	14308	PASS
173	174	0.00	2	0.4	581	PASS
174	95	50	120	62.0	136669	PASS
175	174	4	9	7.3	9984	PASS
176	174	93	101	96.7	132147	PASS
177	176	5	9	6.1	8054	PASS

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	435	45.00	2327	54.85	120	64.00	681
36.10	2065	46.05	279	55.20	357	64.80	30
37.05	11354	47.05	2620	56.00	2948	65.95	9
38.05	9819	47.70	280	56.95	6253	66.90	32
39.00	4004	48.05	1145	57.90	171	68.05	22548
40.00	533	49.10	9251	58.10	91	69.05	23213
40.95	49	50.05	45819	58.90	22	70.05	1937
42.00	227	51.05	14036	59.95	1687	71.90	1041
42.80	161	51.95	671	61.00	9948	73.00	8793
43.05	39	52.95	188	62.05	9678	74.10	37600
44.05	666	53.95	37	63.00	7566	75.10	117101

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.05	9555	87.00	6682	98.15	54	109.10	102
77.10	918	88.05	7760	99.30	64	110.70	18
77.80	815	88.80	77	102.95	130	111.15	1
79.00	4555	89.10	20	103.80	231	111.85	129
79.95	1463	91.00	725	104.05	430	112.95	69
80.95	4661	92.05	5511	104.85	224	113.20	121
81.85	1009	93.05	9746	105.05	89	113.80	17
82.80	45	94.10	24915	105.70	222	114.60	40
83.10	154	95.05	220336	105.90	378	115.00	164
84.10	59	96.05	14308	107.00	405	115.90	792
86.00	343	97.05	232	108.25	56	116.95	1160

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.95	357	127.95	629	138.85	68	147.95	426
118.70	248	128.70	103	139.80	86	148.90	159
118.95	989	129.00	282	140.05	107	149.70	172
120.00	35	129.20	46	140.90	1771	149.90	92
121.95	196	129.95	557	141.95	222	150.20	25
123.70	34	130.90	241	142.95	1603	151.70	42
124.00	187	131.95	49	143.90	46	152.10	65
125.00	93	134.00	75	144.75	112	152.90	115
125.90	42	134.95	263	145.80	52	153.10	90
126.30	20	135.85	80	146.05	101	154.10	102
126.90	38	136.90	300	146.70	83	154.70	65

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

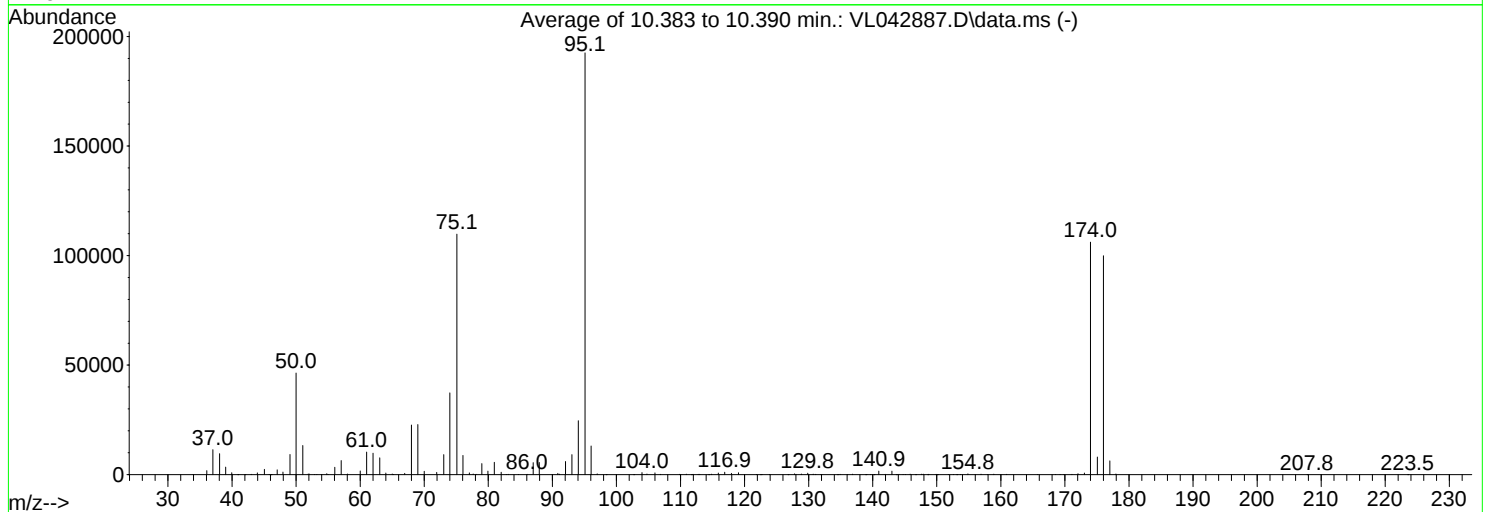
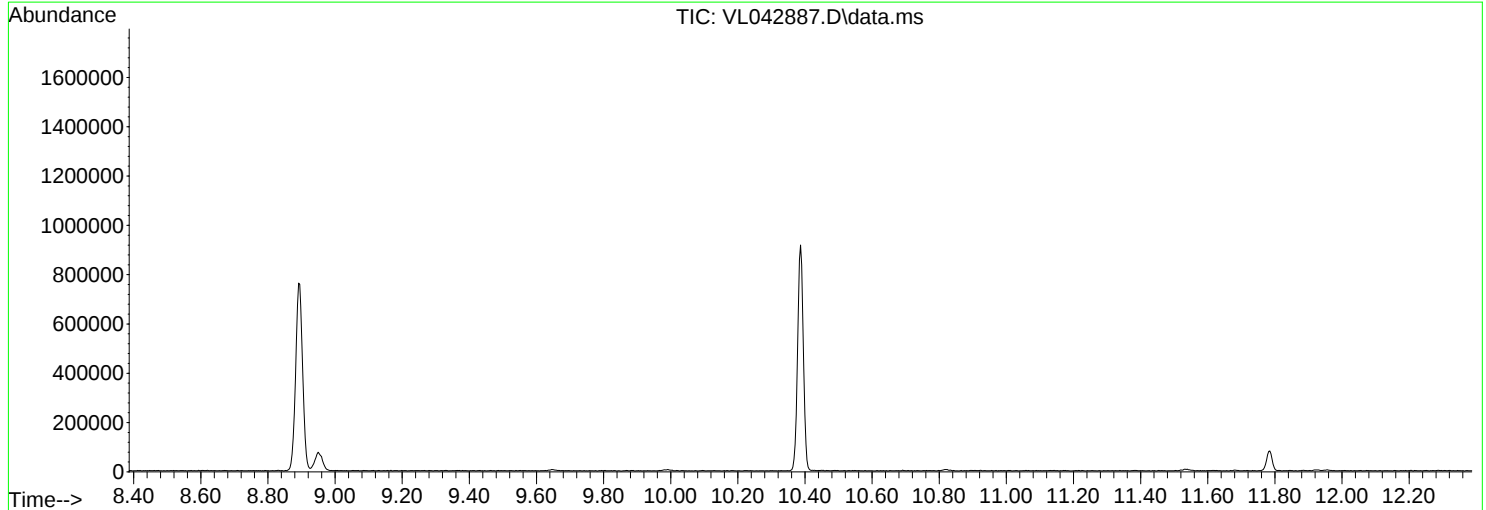
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.90	185	170.60	19	189.20	100		
155.10	115	170.90	27	202.20	25		
157.00	453	171.05	82				
158.85	271	171.90	66				
160.90	247	172.20	170				
167.10	83	173.00	581				
168.00	69	174.00	136669				
168.60	43	175.05	9984				
169.20	47	176.05	132147				
169.60	20	177.05	8054				
170.05	75	177.95	182				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
Data File : VL042887.D
Acq On : 04 Sep 2025 09:58
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\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Aug 14 02:12:54 2025



AutoFind: Scans 3181, 3182, 3183; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.1	46379	PASS
75	95	30	66	57.0	109781	PASS
95	95	100	100	100.0	192555	PASS
96	95	5	9	6.8	13091	PASS
173	174	0.00	2	0.7	765	PASS
174	95	50	120	55.1	106109	PASS
175	174	4	9	7.6	8017	PASS
176	174	93	101	94.1	99893	PASS
177	176	5	9	6.3	6290	PASS

Average of 10.383 to 10.390 min.: VL042887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.95	106	45.80	85	54.00	59	65.00	27
36.05	1861	46.10	27	54.80	471	65.20	4
37.00	11413	47.05	2160	55.00	87	66.95	60
38.05	9586	47.95	1173	56.05	3345	68.00	2262
39.00	3439	49.05	9247	57.05	6461	69.00	22861
39.95	866	50.00	46379	58.05	302	70.00	1523
40.90	20	51.05	13297	60.00	1692	71.95	1000
42.00	25	51.90	266	61.00	10332	73.05	9133
43.00	177	52.05	304	62.00	9815	74.00	37360
43.95	793	52.90	70	63.05	7645	75.10	109781
45.05	2394	53.25	67	64.00	708	76.05	8778

Average of 10.383 to 10.390 min.: VL042887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	828	87.00	5476	102.70	19	114.40	19
77.65	276	87.95	5585	104.00	989	114.85	241
78.10	152	90.85	599	104.75	306	115.90	723
79.00	5032	91.10	194	106.00	807	116.90	1111
79.95	1601	92.05	5972	106.85	175	117.95	552
80.95	5648	93.05	9109	109.85	124	119.05	858
82.00	1075	94.05	24592	110.90	204	120.00	50
82.80	56	95.10	192555	111.70	28	121.85	47
83.10	116	96.05	13091	111.95	186	122.50	19
84.70	43	97.00	386	112.75	123	122.75	86
86.05	186	98.40	21	113.00	121	123.90	70

Average of 10.383 to 10.390 min.: VL042887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.80	24	136.85	260	145.10	44	153.10	31
127.80	393	138.90	22	145.85	216	153.70	54
128.00	171	139.10	44	146.70	26	154.85	354
128.85	333	139.70	89	147.65	250	156.00	70
129.85	624	140.20	25	147.90	196	156.90	251
130.70	211	140.95	1646	148.60	17	157.95	50
131.10	136	141.95	160	148.75	114	158.90	233
131.90	24	143.00	1615	149.90	161	160.90	184
134.50	33	143.70	26	150.10	17	165.75	42
134.90	154	144.10	143	151.80	101	168.55	86
136.05	74	144.75	96	152.60	49	169.25	73

Average of 10.383 to 10.390 min.: VL042887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
169.85	44						
171.10	130						
172.05	415						
173.05	765						
174.00	106109						
175.05	8017						
176.00	99893						
177.00	6290						
177.95	295						
207.80	19						
223.50	23						

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	118 Fulton Ave, GARDENCITYPARK,NY	Date Received:	
Client Sample ID:	VL0904ABL01	SDG No.:	Q3000
Lab Sample ID:	VL0904ABL01	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
VL042889.D	1		09/04/25 13:09	VL090425

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	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	125000		2.797			
540-36-3	1,4-Difluorobenzene	338000		3.975			
3114-55-4	Chlorobenzene-d5	288000		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\VL090425\
 Data File : VL042889.D
 Acq On : 04 Sep 2025 13:09
 Operator : SY/MD
 Sample : VL0904ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0904ABL01

Quant Time: Sep 05 01:21:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	124977	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	337917	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	288118	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	221808	10.265	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.700%

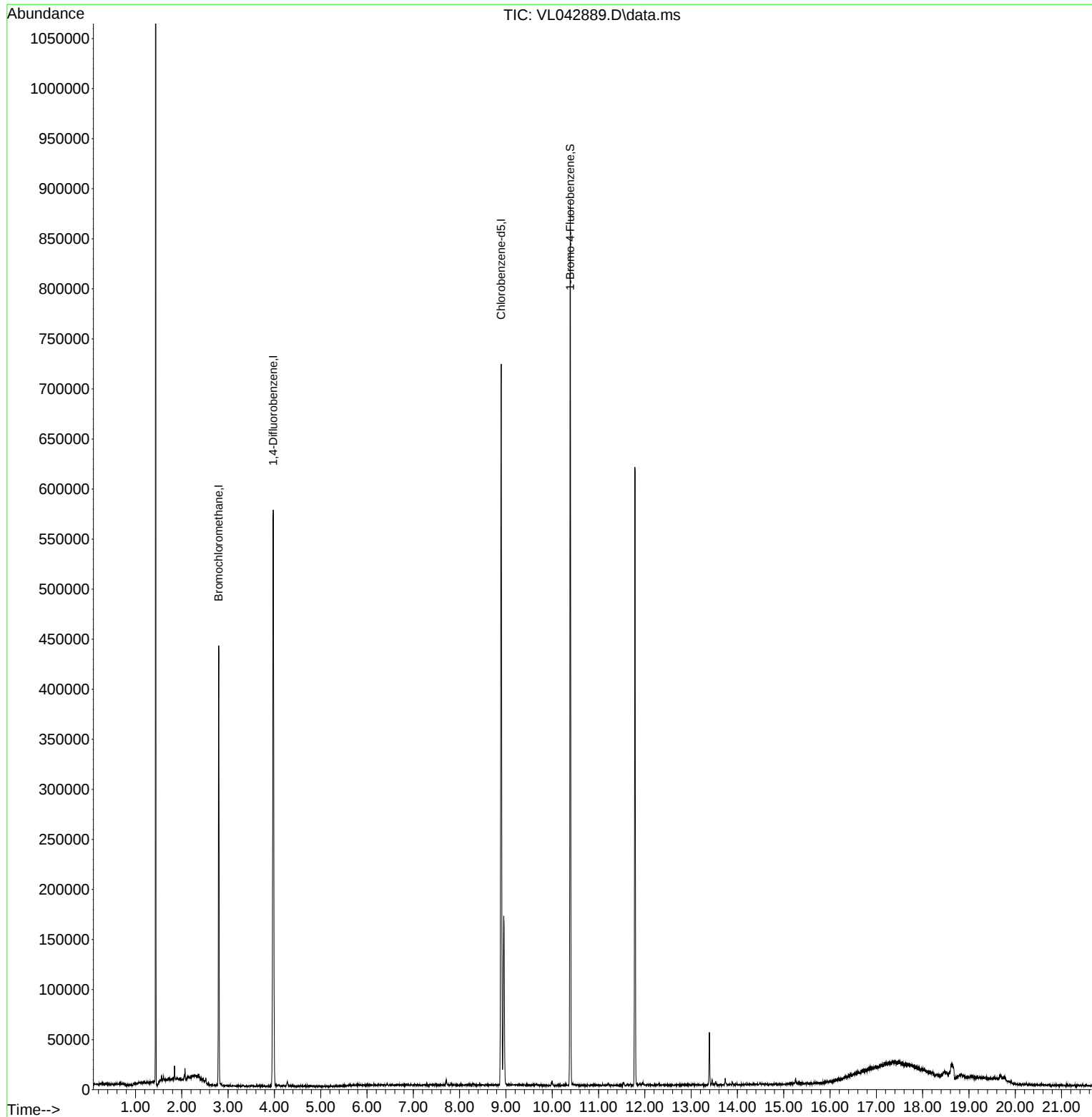
Target Compounds	Qvalue

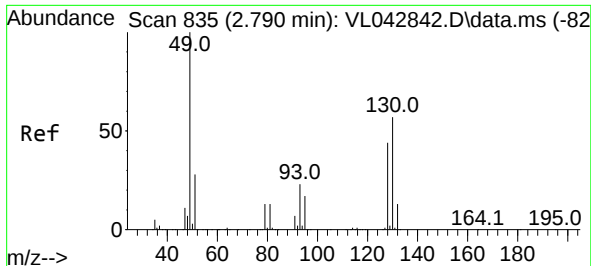
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
Data File : VL042889.D
Acq On : 04 Sep 2025 13:09
Operator : SY/MD
Sample : VL0904ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0904ABL01

Quant Time: Sep 05 01:21:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

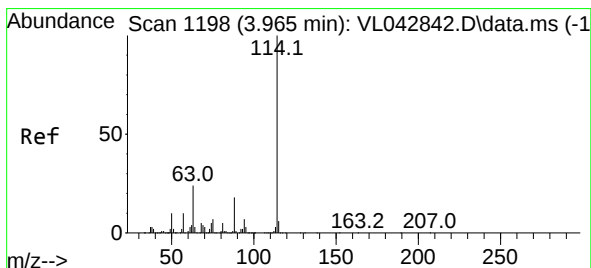
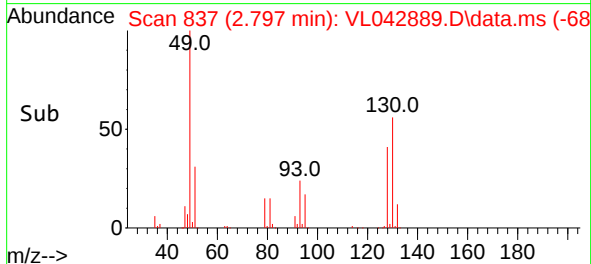
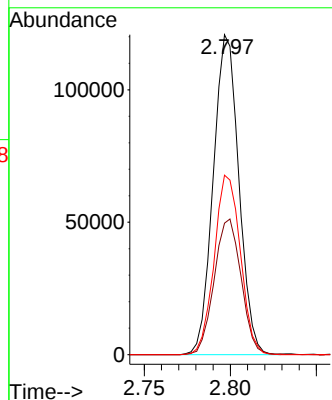
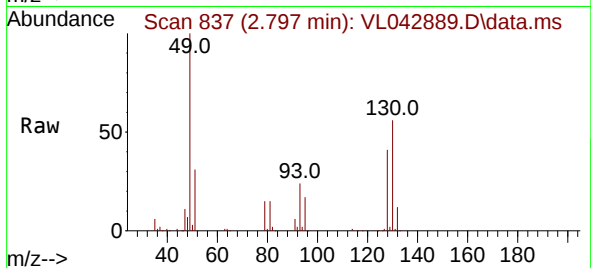




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.797 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042889.D
 Acq: 04 Sep 2025 13:09

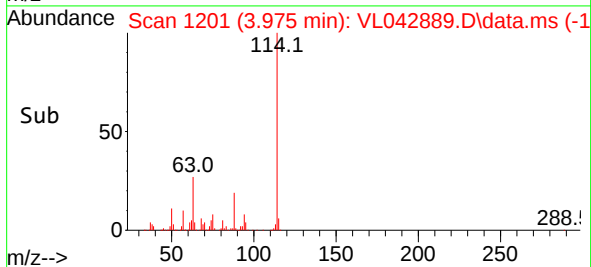
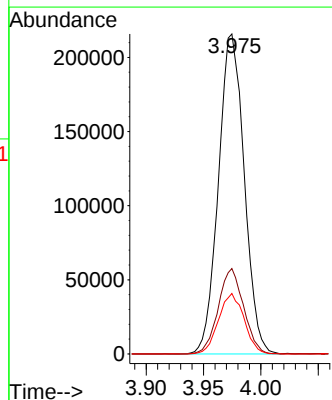
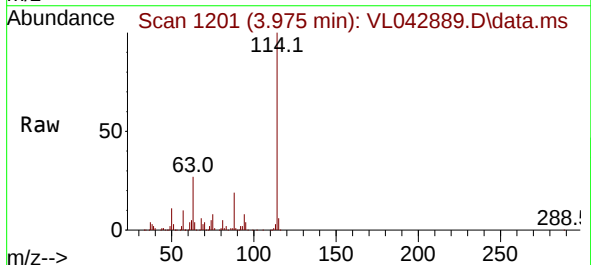
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0904ABL01

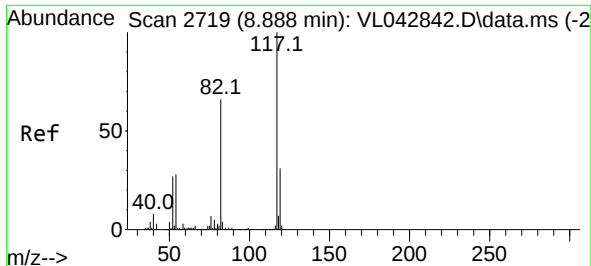
Tgt Ion: 49 Resp: 124977
 Ion Ratio Lower Upper
 49 100
 128 44.6 23.7 71.1
 130 57.4 30.6 91.6



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.975 min Scan# 1201
 Delta R.T. 0.010 min
 Lab File: VL042889.D
 Acq: 04 Sep 2025 13:09

Tgt Ion: 114 Resp: 337917
 Ion Ratio Lower Upper
 114 100
 63 26.2 19.7 29.5
 88 18.7 14.4 21.6

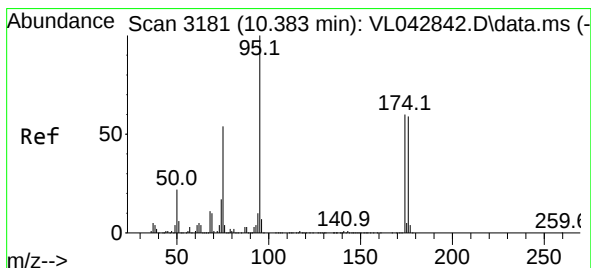
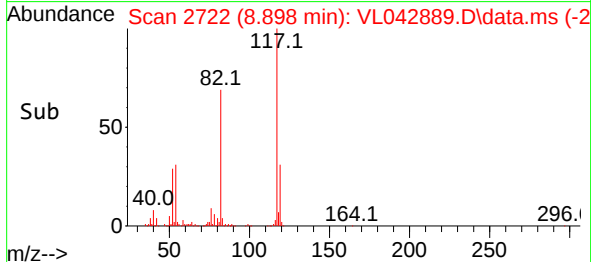
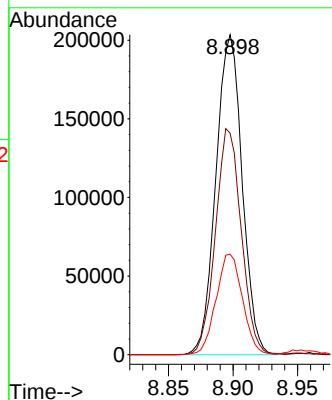
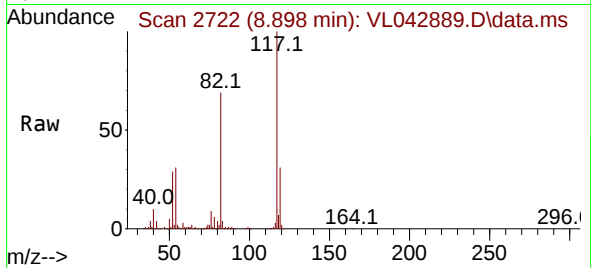




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 211
Delta R.T. 0.010 min
Lab File: VL042889.D
Acq: 04 Sep 2025 13:09

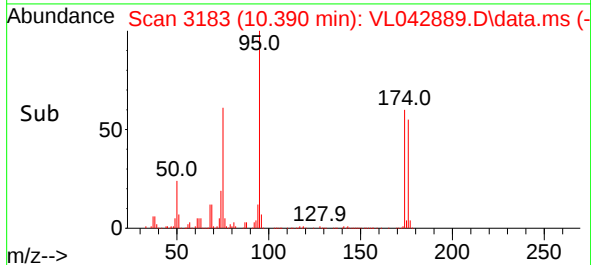
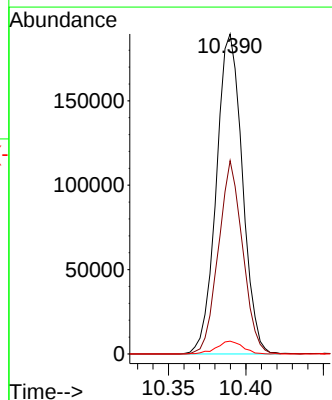
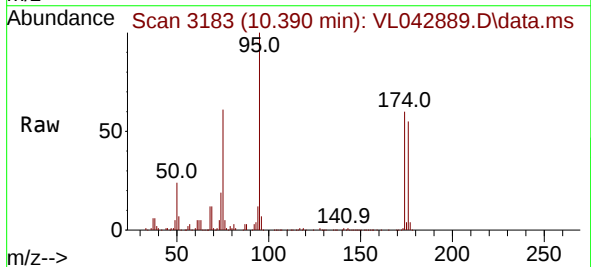
Instrument :
MSVOA_L
ClientSampleId :
VL0904ABL01

Tgt Ion:117 Resp: 288118
Ion Ratio Lower Upper
117 100
82 69.4 54.6 81.8
119 31.6 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.265 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.006 min
Lab File: VL042889.D
Acq: 04 Sep 2025 13:09

Tgt Ion: 95 Resp: 221808
Ion Ratio Lower Upper
95 100
174 56.6 48.4 72.6
175 4.0 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	118 Fulton Ave, GARDENCITYPARK,NY	Date Received:	
Client Sample ID:	VL0904ABS01	SDG No.:	Q3000
Lab Sample ID:	VL0904ABS01	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
VL042890.D	1		09/04/25 14:45	VL090425

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	10.5	41.6		0.59	1.98	ug/m3
110-82-7	Cyclohexane	9.40	32.4		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	9.70	52.9		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.8	50.4		0.65	2.34	ug/m3
71-43-2	Benzene	10.8	34.5		0.26	1.60	ug/m3
79-01-6	Trichloroethene	10.1	54.3		0.11	0.16	ug/m3
108-88-3	Toluene	10.2	38.4		0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	9.30	63.1		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	10.7	46.5		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	22.3	96.9		1.78	4.34	ug/m3
95-47-6	o-Xylene	11.3	49.1		0.91	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.8	53.1		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.9	53.6		0.88	2.46	ug/m3
91-20-3	Naphthalene	10.4	54.5		0.050	0.52	ug/m3
110-54-3	Hexane	9.60	33.8		0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	126000		2.794			
540-36-3	1,4-Difluorobenzene	348000		3.969			
3114-55-4	Chlorobenzene-d5	295000		8.895			

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\VL090425\
 Data File : VL042890.D
 Acq On : 04 Sep 2025 14:45
 Operator : SY/MD
 Sample : VL0904ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0904ABS01

Quant Time: Sep 05 01:22:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025
 Supervised By : Mahesh Dadoda 09/05/2025

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

Internal Standards						
1) Bromochloromethane	2.794	49	126424	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	347754	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	295195	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	233141	10.531	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.300%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.502	85	190156	10.263	ppbv	98
3) Chlorodifluoromethane	1.480	51	215829	10.538	ppbv	99
4) Chloromethane	1.535	50	71767	9.598	ppbv	97
5) Vinyl Chloride	1.583	62	68114	9.250	ppbv	99
6) Bromomethane	1.670	94	27284	9.267	ppbv	99
7) Chloroethane	1.706	64	26790	9.316	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	155450	10.253	ppbv	95
9) Propene	1.486	41	82956	9.379	ppbv	100
10) Heptane	4.995	43	225153	9.504	ppbv	98
11) Trichlorofluoromethane	1.881	101	188180	10.294	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	148429	10.187	ppbv	96
13) Ethanol	1.726	45	6078m	7.516	ppbv	
14) Bromoethene	1.787	108	53382	10.121	ppbv	98
15) Acetone	1.839	43	143057	8.554	ppbv	100
16) 1,3-Butadiene	1.612	39	67073	8.847	ppbv	98
17) tert-Butyl alcohol	2.046	59	169678	8.556	ppbv	98
18) 1,1-Dichloroethene	2.039	96	67507	10.539	ppbv	99
19) Isopropyl Alcohol	1.891	45	87358	8.746	ppbv	92
20) Methylene Chloride	2.065	84	57578	8.219	ppbv	93
21) Allyl Chloride	2.101	41	113052	9.569	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	73133	9.868	ppbv	97
23) Vinyl Acetate	2.467	43	234878	10.215	ppbv	99
24) 1,1-Dichloroethane	2.415	63	145841	9.854	ppbv	98
25) Ethyl Acetate	2.842	43	398993	9.858	ppbv	99
26) Hexane	2.832	57	179880	9.628	ppbv	94
27) Carbon Disulfide	2.156	76	186064	10.234	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	86578	9.089	ppbv	94
29) Chloroform	2.855	83	278130	10.427	ppbv	98
30) Cyclohexane	3.868	84	154277	9.419	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	181358	9.718	ppbv	92
32) 1,1,1-Trichloroethane	3.376	97	274827	9.749	ppbv	97
34) 2-Butanone	2.564	43	262356	11.173	ppbv	99
35) Carbon Tetrachloride	3.771	117	274384	11.445	ppbv	97
36) Benzene	3.667	78	360165	10.816	ppbv	96
37) 1,2-Dichloroethane	3.227	62	214659	12.338	ppbv	97
38) Trichloroethene	4.561	130	152993	10.060	ppbv	98
39) 1,2-Dichloropropane	4.325	63	135529	11.144	ppbv	93
40) 1,4-Dioxane	4.590	88	56645	9.795	ppbv #	93
41) Tetrahydrofuran	3.059	42	142257	10.866	ppbv	98
42) Bromodichloromethane	4.503	83	307835	11.874	ppbv	98
43) Methyl Methacrylate	4.894	69	138461	10.093	ppbv	95
44) 2,2,4-Trimethylpentane	4.651	57	609738	10.788	ppbv	99
45) t-1,3-Dichloropropene	6.432	75	160460	10.365	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090425\
 Data File : VL042890.D
 Acq On : 04 Sep 2025 14:45
 Operator : SY/MD
 Sample : VL0904ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0904ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/05/2025
 Supervised By : Mahesh Dadoda 09/05/2025

Quant Time: Sep 05 01:22:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	203769	10.563	ppbv	97
47) 1,1,2-Trichloroethane	6.593	97	142646	11.070	ppbv	96
48) Dibromochloromethane	7.399	129	232710	11.160	ppbv	98
49) Bromoform	9.493	173	185108	10.764	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	341811	10.769	ppbv	98
51) 2-Hexanone	7.448	43	271565	10.873	ppbv #	97
52) Tetrachloroethene	8.234	164	111720	9.274	ppbv	92
53) Toluene	6.949	91	402563	10.168	ppbv	99
54) 1,2-Dibromoethane	7.665	107	202313	10.743	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.937	131	169496	11.103	ppbv	99
57) Chlorobenzene	8.937	112	303624	10.818	ppbv	97
58) Ethyl Benzene	9.364	91	556627	10.685	ppbv	99
59) m/p-Xylene	9.561	91	910133m	22.290	ppbv	
60) o-Xylene	9.972	91	462674	11.264	ppbv	98
61) Styrene	9.882	104	194594	10.112	ppbv	99
62) Isopropylbenzene	10.549	105	654902	10.910	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.972	83	259275	11.478	ppbv	98
64) n-propylbenzene	10.998	120	165171	10.785	ppbv	92
65) tert-Butylbenzene	11.539	119	563255	10.644	ppbv	96
66) Benzyl Chloride	11.623	91	48287	7.188	ppbv	99
67) sec-Butylbenzene	11.775	105	818922	11.025	ppbv	98
69) p-Isopropyltoluene	11.934	119	667469	10.467	ppbv	97
70) n-Butylbenzene	12.290	91	712683	11.269	ppbv	98
71) 2-Chlorotoluene	10.911	91	503794	10.809	ppbv	97
72) 4-Ethyltoluene	11.134	105	555714	11.161	ppbv	98
73) 1,3,5-Trimethylbenzene	11.212	105	457648	10.808	ppbv	96
74) 1,2,4-Trimethylbenzene	11.545	105	507321	10.916	ppbv	98
75) 1,3-Dichlorobenzene	11.617	146	290724	11.004	ppbv	100
76) 1,4-Dichlorobenzene	11.681	146	290443	10.870	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	276916	10.703	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	173101	8.164	ppbv	99
79) Naphthalene	13.520	128	440047	10.443	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	140135	8.900	ppbv	97
81) 1,2,4-Trichlorobenzene	13.449	180	215766	10.188	ppbv	98

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

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042842.D	m/p-Xylene	SAM	8/14/2025 7:48:06 AM	MMDadoda	8/18/2025 8:42:07 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	1,4-Dioxane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	Ethanol	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	m/p-Xylene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	Methyl Methacrylate	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	1,2-Dichloropropane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	1,4-Dioxane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	Ethanol	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	Heptane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	m/p-Xylene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042844.D	Methyl Methacrylate	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	VL042844.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	VL042844.D	trans-1,2-Dichloroethene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	1,4-Dioxane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	4-Methyl-2-Pentanone	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	m/p-Xylene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	Methyl Methacrylate	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	Toluene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042846.D	1,2-Dibromoethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Naphthalene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Tetrachloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Trichloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	1,1,2,2-Tetrachloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Carbon Tetrachloride	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Tetrachloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Trichloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC015	VL042848.D	m/p-Xylene	SAM	8/14/2025 7:49:35 AM	MMDadoda	8/18/2025 8:42:35 AM	Peak Integrated by Software
VSTDICV010	VL042849.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software
VSTDICV010	VL042849.D	m/p-Xylene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software
VSTDCCC010	VL042864.D	m/p-Xylene	SAM	8/14/2025 7:47:54 AM	MMDadoda	8/18/2025 8:43:18 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VL081325

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VL090425	Instrument	MSVOA_I
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042888.D	m/p-Xylene	sam	9/5/2025 2:20:26 PM	MMDadoda	9/5/2025 2:55:38 PM	Peak Integrated by Software
VL0904ABS01	VL042890.D	Ethanol	sam	9/5/2025 2:20:32 PM	MMDadoda	9/5/2025 2:55:39 PM	Peak Integrated by Software
VL0904ABS01	VL042890.D	m/p-Xylene	sam	9/5/2025 2:20:32 PM	MMDadoda	9/5/2025 2:55:39 PM	Peak Integrated by Software
Q3000-02	VL042892.D	Benzene	sam	9/5/2025 2:20:37 PM	MMDadoda	9/5/2025 2:55:41 PM	Peak Integrated by Software
Q3000-02	VL042892.D	Carbon Tetrachloride	sam	9/5/2025 2:20:37 PM	MMDadoda	9/5/2025 2:55:41 PM	Peak Integrated by Software
Q3000-02	VL042892.D	m/p-Xylene	sam	9/5/2025 2:20:37 PM	MMDadoda	9/5/2025 2:55:41 PM	Peak Integrated by Software
Q3000-02	VL042892.D	Tetrachloroethene	sam	9/5/2025 2:20:37 PM	MMDadoda	9/5/2025 2:55:41 PM	Peak Integrated by Software
Q3000-02	VL042892.D	Toluene	sam	9/5/2025 2:20:37 PM	MMDadoda	9/5/2025 2:55:41 PM	Peak Integrated by Software
Q3000-02DUP	VL042893.D	Benzene	sam	9/5/2025 2:20:45 PM	MMDadoda	9/5/2025 2:55:42 PM	Peak Integrated by Software
Q3000-02DUP	VL042893.D	Carbon Tetrachloride	sam	9/5/2025 2:20:45 PM	MMDadoda	9/5/2025 2:55:42 PM	Peak Integrated by Software
Q3000-02DUP	VL042893.D	m/p-Xylene	sam	9/5/2025 2:20:45 PM	MMDadoda	9/5/2025 2:55:42 PM	Peak Integrated by Software
Q3000-02DUP	VL042893.D	Tetrachloroethene	sam	9/5/2025 2:20:45 PM	MMDadoda	9/5/2025 2:55:42 PM	Peak Integrated by Software
Q3000-03	VL042894.D	2,2,4-Trimethylpentane	sam	9/5/2025 2:20:49 PM	MMDadoda	9/5/2025 2:55:44 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL090425	Instrument	MSVOA_I
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3000-03	VL042894.D	Benzene	sam	9/5/2025 2:20:49 PM	MMDadoda	9/5/2025 2:55:44 PM	Peak Integrated by Software
Q3000-03	VL042894.D	m/p-Xylene	sam	9/5/2025 2:20:49 PM	MMDadoda	9/5/2025 2:55:44 PM	Peak Integrated by Software
Q3000-03	VL042894.D	Tetrachloroethene	sam	9/5/2025 2:20:49 PM	MMDadoda	9/5/2025 2:55:44 PM	Peak Integrated by Software
Q3000-01	VL042896.D	Carbon Tetrachloride	sam	9/5/2025 2:20:55 PM	MMDadoda	9/5/2025 2:55:46 PM	Peak Integrated by Software
Q3000-01	VL042896.D	m/p-Xylene	sam	9/5/2025 2:20:55 PM	MMDadoda	9/5/2025 2:55:46 PM	Peak Integrated by Software
Q3000-01	VL042896.D	o-Xylene	sam	9/5/2025 2:20:55 PM	MMDadoda	9/5/2025 2:55:46 PM	Peak Integrated by Software
Q3000-01	VL042896.D	Trichlorofluoromethane	sam	9/5/2025 2:20:55 PM	MMDadoda	9/5/2025 2:55:46 PM	Peak Integrated by Software
Q3000-01DUP	VL042897.D	2,2,4-Trimethylpentane	sam	9/5/2025 2:20:59 PM	MMDadoda	9/5/2025 2:55:48 PM	Peak Integrated by Software
Q3000-01DUP	VL042897.D	Carbon Tetrachloride	sam	9/5/2025 2:20:59 PM	MMDadoda	9/5/2025 2:55:48 PM	Peak Integrated by Software
Q3000-01DUP	VL042897.D	m/p-Xylene	sam	9/5/2025 2:20:59 PM	MMDadoda	9/5/2025 2:55:48 PM	Peak Integrated by Software
Q3000-01DUP	VL042897.D	Styrene	sam	9/5/2025 2:20:59 PM	MMDadoda	9/5/2025 2:55:48 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Maresh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2655				
Initial Calibration Stds	AP2650,AP2652,AP2653				
CCC	AP2650				
Internal Standard/PEM	AP2655				
ICV/I.BLK	AP2654				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042841.D	13 Aug 2025 07:45	SY/MD	Ok
2	VSTDICCC010	VL042842.D	13 Aug 2025 08:30	SY/MD	Ok,M
3	VSTDICCC002	VL042843.D	13 Aug 2025 09:06	SY/MD	Ok,M
4	VSTDICCC001	VL042844.D	13 Aug 2025 09:41	SY/MD	Ok,M
5	VSTDICCC0.5	VL042845.D	13 Aug 2025 10:17	SY/MD	Ok,M
6	VSTDICCC0.1	VL042846.D	13 Aug 2025 10:53	SY/MD	Ok,M
7	VSTDICCC0.03	VL042847.D	13 Aug 2025 11:30	SY/MD	Ok,M
8	VSTDICCC015	VL042848.D	13 Aug 2025 12:06	SY/MD	Ok,M
9	VSTDICV010	VL042849.D	13 Aug 2025 12:56	SY/MD	Ok,M
10	VL0813ABL01	VL042850.D	13 Aug 2025 13:46	SY/MD	Ok
11	VL0813ABS01	VL042851.D	13 Aug 2025 14:32	SY/MD	Ok,M
12	Q2727-01DL2	VL042852.D	13 Aug 2025 15:10	SY/MD	Ok
13	Q2126-14 0.1 PPB LOQ	VL042853.D	13 Aug 2025 15:49	SY/MD	Ok,M
14	QC080725 CAN10282	VL042854.D	13 Aug 2025 16:27	SY/MD	Ok
15	Q2794-01	VL042855.D	13 Aug 2025 17:05	SY/MD	Dilution
16	Q2794-01DUP	VL042856.D	13 Aug 2025 17:43	SY/MD	Ok,M
17	Q2794-01DL	VL042857.D	13 Aug 2025 18:21	SY/MD	Ok,M
18	Q2794-02	VL042858.D	13 Aug 2025 18:58	SY/MD	Ok,M
19	Q2794-02DL	VL042859.D	13 Aug 2025 19:35	SY/MD	Not Ok
20	QC081125 CAN 10280	VL042860.D	13 Aug 2025 20:12	SY/MD	Ok
21	Q2834-01	VL042861.D	13 Aug 2025 20:49	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2834-02	VL042862.D	13 Aug 2025 21:26	SY/MD	Ok,M
23	Q2834-02DL	VL042863.D	13 Aug 2025 22:02	SY/MD	Not Ok
24	VSTDCCC010	VL042864.D	13 Aug 2025 22:39	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL090425

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	VL090425	HP Acquire Method	TO15AIR	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042887.D	04 Sep 2025 09:58	SY/MD	Ok
2	VSTDCCC010	VL042888.D	04 Sep 2025 12:21	SY/MD	Ok,M
3	VL0904ABL01	VL042889.D	04 Sep 2025 13:09	SY/MD	Ok
4	VL0904ABS01	VL042890.D	04 Sep 2025 14:45	SY/MD	Ok,M
5	Q3000-02DL	VL042891.D	04 Sep 2025 15:36	SY/MD	Not Ok
6	Q3000-02	VL042892.D	04 Sep 2025 16:16	SY/MD	Ok,M
7	Q3000-02DUP	VL042893.D	04 Sep 2025 16:53	SY/MD	Ok,M
8	Q3000-03	VL042894.D	04 Sep 2025 17:29	SY/MD	Ok,M
9	Q3000-03DL	VL042895.D	04 Sep 2025 18:05	SY/MD	Not Ok
10	Q3000-01	VL042896.D	04 Sep 2025 18:41	SY/MD	Ok,M
11	Q3000-01DUP	VL042897.D	04 Sep 2025 19:18	SY/MD	Ok,M
12	Q3000-01DL	VL042898.D	04 Sep 2025 19:55	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL081325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2655
Initial Calibration Stds	AP2650,AP2652,AP2653
CCC	AP2650
Internal Standard/PEM	AP2655
ICV/I.BLK	AP2654
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042841.D	13 Aug 2025 07:45		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042842.D	13 Aug 2025 08:30		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042843.D	13 Aug 2025 09:06		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042844.D	13 Aug 2025 09:41		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042845.D	13 Aug 2025 10:17		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042846.D	13 Aug 2025 10:53		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042847.D	13 Aug 2025 11:30		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042848.D	13 Aug 2025 12:06		SY/MD	Ok,M
9	VSTDICV010	ICVVL081325	VL042849.D	13 Aug 2025 12:56		SY/MD	Ok,M
10	VL0813ABL01	VL0813ABL01	VL042850.D	13 Aug 2025 13:46		SY/MD	Ok
11	VL0813ABS01	VL0813ABS01	VL042851.D	13 Aug 2025 14:32		SY/MD	Ok,M
12	Q2727-01DL2	AE073-1100DL2	VL042852.D	13 Aug 2025 15:10		SY/MD	Ok
13	Q2126-14 0.1 PPB LOC	LOQ-AIR-02-QT2-2025	VL042853.D	13 Aug 2025 15:49		SY/MD	Ok,M
14	QC080725 CAN10282	QC080725 CAN10282	VL042854.D	13 Aug 2025 16:27		SY/MD	Ok
15	Q2794-01	IA1	VL042855.D	13 Aug 2025 17:05	Need 10X	SY/MD	Dilution
16	Q2794-01DUP	IA1DUP	VL042856.D	13 Aug 2025 17:43		SY/MD	Ok,M
17	Q2794-01DL	IA1DL	VL042857.D	13 Aug 2025 18:21		SY/MD	Ok,M
18	Q2794-02	OA1	VL042858.D	13 Aug 2025 18:58		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2655				
Initial Calibration Stds	AP2650,AP2652,AP2653				
CCC	AP2650				
Internal Standard/PEM	AP2655				
ICV/I.BLK	AP2654				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2794-02DL	OA1DL	VL042859.D	13 Aug 2025 19:35	Not Required	SY/MD	Not Ok
20	QC081125 CAN 10280	QC081125 CAN 10280	VL042860.D	13 Aug 2025 20:12		SY/MD	Ok
21	Q2834-01	IA1	VL042861.D	13 Aug 2025 20:49		SY/MD	Ok,M
22	Q2834-02	SV1	VL042862.D	13 Aug 2025 21:26		SY/MD	Ok,M
23	Q2834-02DL	SV1DL	VL042863.D	13 Aug 2025 22:02	Not Required	SY/MD	Not Ok
24	VSTDCCC010	VSTDCCC010EC	VL042864.D	13 Aug 2025 22:39		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL090425

Review By		Review On			
Supervise By		Supervise On			
SubDirectory	VL090425	HP Acquire Method	TO15AIR	HP Processing Method	VL081325AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2655				
Initial Calibration Stds	AP2650,AP2652,AP2653				
CCC	AP2650				
Internal Standard/PEM	AP2655				
ICV/I.BLK	AP2654				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042887.D	04 Sep 2025 09:58		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042888.D	04 Sep 2025 12:21		SY/MD	Ok,M
3	VL0904ABL01	VL0904ABL01	VL042889.D	04 Sep 2025 13:09		SY/MD	Ok
4	VL0904ABS01	VL0904ABS01	VL042890.D	04 Sep 2025 14:45		SY/MD	Ok,M
5	Q3000-02DL	IA1DL	VL042891.D	04 Sep 2025 15:36	Not Required	SY/MD	Not Ok
6	Q3000-02	IA1	VL042892.D	04 Sep 2025 16:16		SY/MD	Ok,M
7	Q3000-02DUP	IA1DUP	VL042893.D	04 Sep 2025 16:53		SY/MD	Ok,M
8	Q3000-03	IA2	VL042894.D	04 Sep 2025 17:29		SY/MD	Ok,M
9	Q3000-03DL	IA2DL	VL042895.D	04 Sep 2025 18:05	Not Required	SY/MD	Not Ok
10	Q3000-01	OA1	VL042896.D	04 Sep 2025 18:41		SY/MD	Ok,M
11	Q3000-01DUP	OA1DUP	VL042897.D	04 Sep 2025 19:18		SY/MD	Ok,M
12	Q3000-01DL	OA1DL	VL042898.D	04 Sep 2025 19:55	Not Required	SY/MD	Not Ok

M : Manual Integration

Client Contact Information		Bottle Order ID : B2508025		Courier : F GALDUN		COCs of 3/14/15									
Client ID : GFEL01		Project ID : 739 Nostrand Ave, Brooklyn, NY		Sampler Name(s) : FRANK GALDUN		Analysis									
Customer Name : GFE LLC		Project Manager : FRANK GALDUN		AIR ANALYSIS		Matrix									
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY											
		Fax Number : 973-334-1692		Individual Certified											
City : Lake Hiawatha		Site Details: 118 Fulton Ave. GREEN CITY PARK NY													
State : NJ		Analysis Turnaround Time 5 DAY													
Zip Code : 07034		Standard : 10-15 days OR		Data Package Type : RESULTS ONLY											
Country :		Rush (Specify): 5 Days		EDD Type : PDF											
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	Indoor Ambient Air	Soil Gas
118	8/22/14	10:00	10:15	20	4.5	61	63	-30	55	10502	10283	6 L	50	VL042829.D	
Temperature (Fahrenheit)															
		Ambient		Maximum		Minimum									
Start															
Stop															
Pressure (Inches of Hg)															
		Ambient		Maximum		Minimum									
Start															
Stop															
Special Instructions/QC Requirements & Comments :															
Suspected Contamination: High Medium Low															
Sampling site (State):															
Quick Connector required : NO															
Canisters Shipped by: S&S															
Samples Relinquished by: F&S															
Relinquished by:															
Canisters Received by: S&S															
Date/Time: 8/22/14															
Received by:															
Date/Time:															
Received by:															
Date/Time:															
PID Readings: 0.0															
** Submittal of this COC indicates approval of the analysis based on existing conditions.															
REPORT ONLY THOSE ANALYTES IN THE ATTACHED LIST															
Please follow the instructions on the back of this COC.															
GC/MS Analyst Signature (TO-15)															
S&S															
B2508025 - 4															

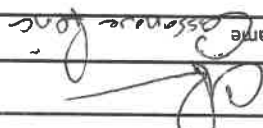
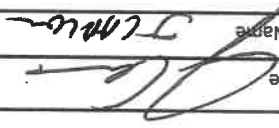
Client Contact Information		Bottle Order ID : B2508025		Courier : F. Galdun		3 of 3 COCs																									
Client ID : GFEL01		Project ID : 739 Nockland Ave. Breehills, NY		Sampler Name(s) : FRANK GILDUN		Analysis Matrix																									
Customer Name : GFE LLC		Project Manager : FRANK GILDUN		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 : RESULTS ONLY																											
Zip Code : 07034		Standard : 10 business days		EDD Type : PDF																											
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	Indoor Ambient Air	Soil Gas																
4/18/24	4/18/24	8:58	10:58	30	60.5	61	63	-30	5.5	10616	10266	50	VL042829.D	1	1																
<table border="1"> <tr> <th colspan="4">Temperature (Fahrenheit)</th> </tr> <tr> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> <th></th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>																Temperature (Fahrenheit)				Ambient	Maximum	Minimum		Start				Stop			
Temperature (Fahrenheit)																															
Ambient	Maximum	Minimum																													
Start																															
Stop																															
<table border="1"> <tr> <th colspan="4">Pressure (Inches of Hg)</th> </tr> <tr> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> <th></th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>																Pressure (Inches of Hg)				Ambient	Maximum	Minimum		Start				Stop			
Pressure (Inches of Hg)																															
Ambient	Maximum	Minimum																													
Start																															
Stop																															
GC/MS Analyst Signature (TO-15) [Signature]																															
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LSI Please follow the instructions on the back of this COC.																															
Special Instructions/QC Requirements & Comments :																															
Suspected Contamination: High Medium Low Low PID Readings: 0.0																															
Sampling site (State):																															
Quick Connector required : NO																															
Canisters Shipped by: Sam																															
Samples Relinquished by: Sam																															
Relinquished by:																															
Date/Time: 4/22/25 10:43																															
Date/Time:																															
Date/Time:																															
B2508025 - 3																															

New Jersey Department of Environmental Protection
Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory: Chemtech	
Location: 284 Sheffield Street, Mountainside, NJ 7092	
Title: Sample Custodian	
Date Broken 9/3/2025	
Military Time Seal Broken: 10:45:00	
Case No.: 118 Fulton Ave	
Field Sample Seal No. Q3000	
Q3000-01	
Q3000-02	
Q3000-03	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3000-01	0A1		
Q3000-02	1A1		
Q3000-03	1A2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/12/25	1324			AIR LAB
		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	
		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

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: *[Signature]* METHOD: TO-15

Supervisor Signature: *[Signature]*

Pressure Gauge ID: *AZ 55971*

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
08/15/15	Q2887-01	10158	11.0	-7.5				cy
	Q2887-02	10300	12.6	-4.3				cy
	Q2887-03	10607	12.0	-3.5				
8/16/15	Q2898-01	10443	11.8	-5.9				cy
	Q2898-02	10602	12.2	-5.1				
	Q2898-03	10053	11.4	-5.9				
8/16/15	Q2943-01	10060	13.0	-3.5				cy
9/2/15	Q3000-01	10153	11.8	-5.9				cy
	Q3000-02	10283	12.0	-5.5				
	Q3000-03	10266	12.0	-5.5				

Process Report

Order ID : Q3000

Date	Bottle ID	Lab Sample Number	Incoming Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
09/03/2025	B2508025	Q3000-02	-5.5	10283	6 L	10502		C2507002	VL042829.D Seq: VL080725 TUNE: VL042823.D ICAL: VL042752.D CCAL: VL042824.D MB: VL042825.D
09/03/2025	B2508025	Q3000-03	-5.5	10266	6 L	10616		C2507002	VL042829.D Seq: VL080725 TUNE: VL042823.D ICAL: VL042752.D CCAL: VL042824.D MB: VL042825.D
09/03/2025	B2508043	Q3000-01	-5.9	10153	6 L	10185		C2508003	VL042860.D Seq: VL081325 TUNE: VL042841.D ICAL: VL042847.D CCAL: VL042842.D MB: VL042850.D

CHEMTECH

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

Client Sample ID #: IA1

Client Name: GFE

Project Name: FULTON AVE

Date: 8/29

Time: 10:15

Analysis: IA1

Comments: IA1

CHEMTECH'S SAM

Date Received: 8/29

Storage Location: VOA Lab

Sample: Q3000-02

Cust #: IA1

CHEMTECH

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

Client Sample ID #: IA1

Client Name: GFE

Project Name: FULTON AVE

Date: 8/29

Time: 10:15

Analysis: IA1

Comments: IA1

CHEMTECH'S SAM

Date Received: 8/29

Storage Location: VOA Lab

Sample: Q3000-01

Cust #: OA1

CHEMTECH

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

Client Sample ID #: IA2

Client Name: GFE

Project Name: FULTON AVE

Date: 8/29

Time: 10:15

Analysis: IA2

Comments: IA2

CHEMTECH'S SAMPLE II

Date Received: 8/29

Storage Location: VOA Lab

Sample: Q3000-03

Cust #: IA2