



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2511013				Courier : F. Galdun				1 of 6 COCs			
Client ID : GFEL01				Project ID : 74-10 Express Hill St, Glen Dale NY				Sampler Name(s) : FRANK Galdun				Analysis		Matrix	
Customer Name : GFE LLC 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: 470 & 472 WESTBURY AVE CABLE PLACE, NY											
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type RESULTS ONLY							
State : NJ				Standard : 10 business days OR				EDD Type : PDF							
Zip Code : 07034				Rush (Specify): 5 Days											
Country :															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SV1	11/14/25	11:15	12:30	OVER 30	5.5	68	68	-30	-4.7	10511	10294	6 L	50	VL043082.D	1		1

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

Pressure (Inches of Hg)					** Submittal of this COC indicates approval of the analysis based on existing conditions. 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: 0.1

Sampling site (State):

Quick Connector required : NO

Canisters Shipped by: <u>Sam</u>	Date/Time: <u>11/10/25</u>	Canisters Received by: <u>[Signature]</u>	Date/Time: <u>11-14-25 1230</u>
Samples Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/14/25</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11-14-25 1230</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11-14-25 1323</u>	Received by: <u>[Signature]</u>	Date/Time:

B2511013 - 4

Client Contact Information				Bottle Order ID : B2511013				Courier : F. Galdun				2 of 6 COCs																	
Client ID : GFEL01 Project ID : 74-16 Cypress Hill St, Glendale NY				Sampler Name(s) : FRANK GILDUN				Analysis				Matrix																	
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : FRANK GILDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 4708 472 Westbury Ave CARLE PLACE, 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 : TDF																					
Country :																													
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												
S02	11/14/25	11:07	1:07	30	6	68	68	-29.5	+5.1	10649	10279	6 L	50	VL043047.D	1		1												
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</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>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</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>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST. Please follow the instructions on the back of this COC.							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings:																													
Sampling site (State):																													
Quick Connector required : NO																													
Canisters Shipped by: Sam				Date/Time: 11/10/25				Canisters Received by:				Date/Time:																	
Samples Relinquished by: F. Galdun				Date/Time: 11/14/25				Received by:				Date/Time: 11/14-25 12:30																	
Relinquished by:				Date/Time: 11-14-25 1323				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2511013				Courier : F. Galdun				3 of 6 COCs			
Client ID : GFEL01				Project ID : 74-16 Cypress Hill St, Glendale NY				Sampler Name(s) : Frank Galdun				Analysis		Matrix	
Customer Name : GFE LLC 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: 470 472 WESTBURY AVE CARLE PLACE, NY											
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY							
State : NJ				Standard : 10 business days OR				EDD Type : PDF							
Zip Code : 07034				Rush (Specify): 5 Days											
Country :															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
IA1	11/14/25	11:00	1:00	26	1.5	68	68	-30	-3-9	10502	10154	6 L	50	VL043047.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) [Signature]

** 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: <u>Sam</u>	Date/Time: <u>11/14/25</u>	Canisters Received by: <u>[Signature]</u>	Date/Time: <u>11-14-25 1230</u>
Samples Relinquished by: <u>[Signature]</u>	Date/Time: <u>11/14/25</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11-14-25 1230</u>
Relinquished by: <u>[Signature]</u>	Date/Time: <u>11-14-25 1323</u>	Received by: <u>[Signature]</u>	Date/Time: <u>11-14-25 1323</u>

Client Contact Information				Bottle Order ID : B2511012				Courier : F GALDUN				4 of 60 COCs			
Client ID : GFEL01				Project ID : 74-16 Cypress Hill St, Glendale NY				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix	
Customer Name : GFE LLC 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: 470 & 472 WESTBURY AVE, CABLE PLACE, 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 : PDF							
Country :															

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
IAZ	11/14/25	10:50	12:50	00.62 30	5	60	60	-29.5	-3.5	10550	10275	6 L 50	VL043047.D	1	1	

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

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

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0

Sampling site (State):

Quick Connector required : **NO**

Canisters Shipped by: SIA	Date/Time: 11/10/25	Canisters Received by: [Signature]	Date/Time: 11-14-23 1230
Samples Relinquished by: [Signature]	Date/Time: 11/14/25	Received by: [Signature]	Date/Time: 11-14-23 1230
Relinquished by: [Signature]	Date/Time: 11-14-23 1230	Received by: [Signature]	Date/Time: 25

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Client Contact Information				Bottle Order ID : B2511012				Courier : <u>FGALDUN</u>				5 of 6 COCs					
Client ID : GFEL01				Project ID : 74-16 Cypress Hill St, Glendale NY				Sampler Name(s) : <u>FRANK GILDUN</u>				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : FRANK GILDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: <u>470 & 472 WESTBURY AVE</u> <u>CARLE PLACE NY</u>													
City : Lake Hiawatha				Analysis Turnaround Time <u>5 DAY</u>				Data Package Type : <u>RESULTS ONLY</u>									
State : NJ				Standard : 10 business days OR													
Zip Code : 07034				Rush (Specify): <u>5</u> Days				EDD Type : <u>PDF</u>									
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
<u>IA3</u>	<u>11/1/25</u>	<u>11:00</u>	<u>1:00</u>	<u>30</u>	<u>5.25</u>	<u>68</u>	<u>68</u>	<u>-30</u>	<u>-5.1</u>	<u>10579</u>	<u>10198</u>	<u>6 L</u>	<u>50</u>	<u>VL043047.D</u>	<u>1</u>	<u>1</u>	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. <u>REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST</u> Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.0</u>																	
Sampling site (State):																	
Quick Connector required : <u>No</u>																	
Canisters Shipped by: <u>SGM</u>				Date/Time: <u>11/10/25</u>				Canisters Received by: <u>[Signature]</u>				Date/Time: <u>11-14-23 1230</u>					
Samples Relinquished by: <u>FG</u>				Date/Time: <u>11-14-23 1303</u>				Received by: <u>[Signature]</u>				Date/Time: <u>25</u>					
Relinquished by: <u>[Signature]</u>																	

Client Contact Information				Bottle Order ID : B2511012				Courier : FGALDUN				<u>6</u> of <u>6</u> COCs					
Client ID : GFEL01				Project ID : 74-18 Cypress Hill St, Glendale NY				Sampler Name(s) : Frank Galdun				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : FRANK GILDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 4108472 Westbury Ave. CARLE PLACE, NY													
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type : Results Only									
State : NJ				Standard : 10 business days OR				EDD Type : PDF									
Zip Code : 07034				Rush (Specify): 5 Days													
Country :																	
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
OAI	11/14/25	11:05	1:05	OVER 30	4	40	41	-30	-3.9	10525	10197	6 L	50	VL043047.D	1	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) SIL							
		Ambient	Maximum	Minimum													
Start		40															
Stop		41															
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYSES ON THE ATTACHED HST Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium <u>Low</u> PID Readings: 0, 0																	
Sampling site (State):																	
Quick Connector required : <u>NO</u>																	
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>11/10/25</u>				Canisters Received by: <u>[Signature]</u>				Date/Time: <u>11-14-23 12:30</u>					
Samples Relinquished by: <u>[Signature]</u>				Date/Time: <u>11-14-23</u>				Received by: <u>[Signature]</u>				Date/Time: <u>25</u>					
Relinquished by: <u>[Signature]</u>				Date/Time: <u>11-14-23 12:30</u>				Received by: <u>[Signature]</u>				Date/Time: <u>25</u>					

Laboratory Certification

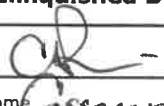
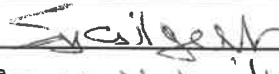
Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
QA/QC:		Title: <u>Sample Custodian</u>	
Field Sample Seal No. <u>Q3650</u>		Date Broken <u>11/14/2025</u> Military Time Seal Broken: <u>12:30:00</u>	
Case No.: <u>470 TO 472 WESTBURY AV</u>		Analytical Parameter/Fraction <u>OCMS Group2</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3650-01	SV1		
Q3650-02	SV2		
Q3650-03	IA1		
Q3650-04	IA2		
Q3650-05	IA3		
Q3650-06	OA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
11/17/25	10:05	Signature 	Signature 	
		Printed Name <u>Cassanova</u>	Printed Name <u>Sample Custodian</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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:	Q3650	OrderDate:	11/14/2025 3:23:00 PM
Client:	GFE LLC	Project:	470 TO 472 WESTBURY AVE
Contact:	Frank Galdun	Location:	Air Lab, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3650-01	SV1	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3650-02	SV2	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3650-03	IA1	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3650-04	IA2	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3650-05	IA3	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25
Q3650-06	OA1	Air	VOCMS Group2	TO-15	11/11/25		11/18/25	11/14/25

Hit Summary Sheet
SW-846

SDG No.: Q3650
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q3650-01	SV1	Air	Heptane	18.9		2.79	8.20	ug/m3
Q3650-01	SV1	Air	Cyclohexane	4.13	J	3.03	6.88	ug/m3
Q3650-01	SV1	Air	Benzene	2.30	J	1.02	6.39	ug/m3
Q3650-01	SV1	Air	Toluene	19.2		2.41	7.54	ug/m3
Q3650-01	SV1	Air	Tetrachloroethene	1.22		0.41	0.81	ug/m3
Q3650-01	SV1	Air	Ethyl Benzene	6.08	J	3.30	8.69	ug/m3
Q3650-01	SV1	Air	m/p-Xylene	12.2	J	6.95	17.4	ug/m3
Q3650-01	SV1	Air	o-Xylene	5.21	J	3.65	8.69	ug/m3
Q3650-01	SV1	Air	Hexane	92.0		2.26	7.05	ug/m3
			Total Voc :		161			
			Total Concentration:		161			
Client ID:	SV2							
Q3650-02	SV2	Air	Heptane	6.97	J	2.79	8.20	ug/m3
Q3650-02	SV2	Air	Benzene	3.83	J	1.02	6.39	ug/m3
Q3650-02	SV2	Air	Toluene	9.04		2.41	7.54	ug/m3
Q3650-02	SV2	Air	Tetrachloroethene	2.98		0.41	0.81	ug/m3
Q3650-02	SV2	Air	Hexane	36.3		2.26	7.05	ug/m3
			Total Voc :		59.1			
			Total Concentration:		59.1			
Client ID:	IA1							
Q3650-03	IA1	Air	Toluene	1.85	J	0.60	1.88	ug/m3
Q3650-03	IA1	Air	Hexane	0.67	J	0.56	1.76	ug/m3
			Total Voc :		2.52			
			Total Concentration:		2.52			
Client ID:	IA2							
Q3650-04	IA2	Air	Benzene	0.32	J	0.26	1.60	ug/m3
Q3650-04	IA2	Air	Toluene	1.51	J	0.60	1.88	ug/m3
Q3650-04	IA2	Air	Hexane	1.66	J	0.56	1.76	ug/m3
			Total Voc :		3.49			
			Total Concentration:		3.49			
Client ID:	IA3							
Q3650-05	IA3	Air	Benzene	0.35	J	0.26	1.60	ug/m3
Q3650-05	IA3	Air	Toluene	1.58	J	0.60	1.88	ug/m3
Q3650-05	IA3	Air	Hexane	1.20	J	0.56	1.76	ug/m3
			Total Voc :		3.13			
			Total Concentration:		3.13			
Client ID:	OA1							
Q3650-06	OA1	Air	Benzene	0.35	J	0.26	1.60	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q3650

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q3650-06	OA1	Air	Toluene	0.75	J	0.60	1.88	ug/m3
Q3650-06	OA1	Air	Hexane	0.85	J	0.56	1.76	ug/m3
Total Voc :				1.95				
Total Concentration:				1.95				



QC SUMMARY

Surrogate Summary

SDG No.: Q3650

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3650-01	SV1	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
Q3650-02	SV2	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
Q3650-03	IA1	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
Q3650-04	IA2	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
Q3650-05	IA3	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135
Q3650-06	OA1	1-Bromo-4-Fluorobenzene	10	10.2	102		65	135
Q3651-03DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	9.98	100		65	135
VL1118ABL01	VL1118ABL01	1-Bromo-4-Fluorobenzene	10	10.0	100		65	135
VL1118ABS01	VL1118ABS01	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3650</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>GFE LLC</u>	Datafile :	<u>VL043213.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1118ABS01	Vinyl Chloride	10	8.30	ppbv	83			70	130	
	Heptane	10	8.50	ppbv	85			70	130	
	1,1-Dichloroethane	10	9.60	ppbv	96			70	130	
	Cyclohexane	10	9.10	ppbv	91			70	130	
	cis-1,2-Dichloroethene	10	9.40	ppbv	94			70	130	
	1,1,1-Trichloroethane	10	9.60	ppbv	96			70	130	
	2,2,4-Trimethylpentane	10	9.20	ppbv	92			70	130	
	Benzene	10	9.40	ppbv	94			70	130	
	Trichloroethene	10	9.20	ppbv	92			70	130	
	Toluene	10	9.20	ppbv	92			70	130	
	Tetrachloroethene	10	8.90	ppbv	89			70	130	
	Ethyl Benzene	10	9.50	ppbv	95			70	130	
	m/p-Xylene	20	18.8	ppbv	94			70	130	
	o-Xylene	10	9.30	ppbv	93			70	130	
	1,3,5-Trimethylbenzene	10	9.40	ppbv	94			70	130	
	1,2,4-Trimethylbenzene	10	9.20	ppbv	92			70	130	
	Naphthalene	10	9.80	ppbv	98			70	130	
	Hexane	10	9.00	ppbv	90			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q3651-03DUP	Q3651-03
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL043215.D	VL043214.D
Anal Date & Time :	11/18/2025 16:31	11/18/2025 15:57

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,2,4-Trimethylbenzene	0.56	0.59	5.2
1,3,5-Trimethylbenzene	0	0	0
2,2,4-Trimethylpentane	0	0	0
Benzene	0.18	0.18	0
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0.27	0.31	13.8
Ethyl Benzene	1.4	1.5	6.9
Heptane	0.6	0.66	9.5
Hexane	0	0	0
m/p-Xylene	6.2	6.5	4.7
Naphthalene	0	0.12	200 *
o-Xylene	1.8	1.8	0
Tetrachloroethene	0.03	0.04	28.6 *
Toluene	180	180	0
Trichloroethene	0	0	0
Vinyl Chloride	0.05	0.05	0

VOLATILE METHOD BLANK SUMMARY

Client ID

IA1DUP

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3650

Lab File ID: VL043215.D

Lab Sample ID: Q3651-03DUP

Date Analyzed: 11/18/2025

Time Analyzed: 16:31

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	Q3651-03DUP	VL043215.D	11/18/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL1118ABL01

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3650

Lab File ID: VL043212.D

Lab Sample ID: VL1118ABL01

Date Analyzed: 11/18/2025

Time Analyzed: 14:41

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
VL1118ABS01	VL1118ABS01	VL043213.D	11/18/2025
IA1	Q3650-03	VL043218.D	11/18/2025
IA2	Q3650-04	VL043219.D	11/18/2025
IA3	Q3650-05	VL043220.D	11/18/2025
OA1	Q3650-06	VL043221.D	11/18/2025
SV1	Q3650-01	VL043225.D	11/18/2025
SV2	Q3650-02	VL043226.D	11/18/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3650

Lab File ID: VL043202.D

BFB Injection Date: 11/18/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:46

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.1
75	30.0 - 66.0% of mass 95	55.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.6
175	4.0 - 9.0% of mass 174	5 (7.8) 1
176	93.0 - 101.0% of mass 174	60.7 (95.5) 1
177	5.0 - 9.0% of mass 176	4 (6.6) 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
VSTDICC0.5	VSTDICC0.5	VL043203.D	11/18/2025	09:29
VSTDICCC010	VSTDICCC010	VL043204.D	11/18/2025	10:02
VSTDICC002	VSTDICC002	VL043205.D	11/18/2025	10:37
VSTDICC001	VSTDICC001	VL043206.D	11/18/2025	11:10
VSTDICC0.1	VSTDICC0.1	VL043208.D	11/18/2025	12:16
VSTDICC0.03	VSTDICC0.03	VL043209.D	11/18/2025	12:49
VSTDICC015	VSTDICC015	VL043210.D	11/18/2025	13:24
VL1118ABL01	VL1118ABL01	VL043212.D	11/18/2025	14:41
VL1118ABS01	VL1118ABS01	VL043213.D	11/18/2025	15:24
IA1DUP	Q3651-03DUP	VL043215.D	11/18/2025	16:31
IA1	Q3650-03	VL043218.D	11/18/2025	18:15
IA2	Q3650-04	VL043219.D	11/18/2025	18:49
IA3	Q3650-05	VL043220.D	11/18/2025	19:23
OA1	Q3650-06	VL043221.D	11/18/2025	19:58
SV1	Q3650-01	VL043225.D	11/18/2025	22:05
SV2	Q3650-02	VL043226.D	11/18/2025	22:37

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
 Lab Code: ACE SDG NO.: Q3650
 Lab File ID: VL043204.D Date Analyzed: 11/18/2025
 Instrument ID: MSVOA_L Time Analyzed: 10:02
 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	105095	2.78	283830	3.95	234772	8.87
UPPER LIMIT	147133	3.11	397362	4.28	328681	9.20
LOWER LIMIT	63057	2.45	170298	3.62	140863	8.54
EPA SAMPLE NO.						
SV1	93706	2.79	243965	3.96	191464	8.88
SV2	101095	2.79	261880	3.96	206328	8.88
IA1	98200	2.79	259525	3.96	203499	8.88
IA2	96487	2.79	253507	3.96	197811	8.88
IA3	91519	2.78	244106	3.95	189099	8.88
OA1	92120	2.79	243218	3.96	191077	8.88
IA1DUP	112956	2.79	275778	3.96	220714	8.88
VL1118ABL01	95971	2.79	262557	3.96	209184	8.88
VL1118ABS01	95420	2.78	253448	3.95	205104	8.87

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.



SAMPLE DATA

Report of Analysis

Client: GFE LLC
Project: 470 TO 472 WESTBURY AVE
Client Sample ID: SV1
Lab Sample ID: Q3650-01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3650
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.10	0.26	U	4	0.26	0.31	11/18/25 22:05	VL111825
142-82-5	Heptane	4.60	18.9		4	2.79	8.20	11/18/25 22:05	VL111825
75-34-3	1,1-Dichloroethane	0.52	2.10	U	4	2.10	8.09	11/18/25 22:05	VL111825
110-82-7	Cyclohexane	1.20	4.13	J	4	3.03	6.88	11/18/25 22:05	VL111825
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	U	4	1.59	7.93	11/18/25 22:05	VL111825
71-55-6	1,1,1-Trichloroethane	0.060	0.33	U	4	0.33	0.65	11/18/25 22:05	VL111825
540-84-1	2,2,4-Trimethylpentane	0.56	2.62	U	4	2.62	9.34	11/18/25 22:05	VL111825
71-43-2	Benzene	0.72	2.30	J	4	1.02	6.39	11/18/25 22:05	VL111825
79-01-6	Trichloroethene	0.10	0.54	U	4	0.54	0.64	11/18/25 22:05	VL111825
108-88-3	Toluene	5.10	19.2		4	2.41	7.54	11/18/25 22:05	VL111825
127-18-4	Tetrachloroethene	0.18	1.22		4	0.41	0.81	11/18/25 22:05	VL111825
100-41-4	Ethyl Benzene	1.40	6.08	J	4	3.30	8.69	11/18/25 22:05	VL111825
179601-23-1	m/p-Xylene	2.80	12.2	J	4	6.95	17.4	11/18/25 22:05	VL111825
95-47-6	o-Xylene	1.20	5.21	J	4	3.65	8.69	11/18/25 22:05	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/18/25 22:05	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/18/25 22:05	VL111825
91-20-3	Naphthalene	0.050	0.26	U	4	0.26	2.10	11/18/25 22:05	VL111825
110-54-3	Hexane	26.1	92.0		4	2.26	7.05	11/18/25 22:05	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.3		65 - 135	103%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	93700
540-36-3	1,4-Difluorobenzene	244000
3114-55-4	Chlorobenzene-d5	191000

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\VL111825\
 Data File : VL043225.D
 Acq On : 18 Nov 2025 22:05
 Operator : SY/MD
 Sample : Q3650-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:41:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	93706	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	243965	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	191464	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	144231	10.277	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	1498	0.113	ppbv #	82
9) Propene	1.483	41	5049	0.915	ppbv #	1
10) Heptane	4.975	43	18772	1.143	ppbv	99
13) Ethanol	1.722	45	31101	16.025	ppbv	98
15) Acetone	1.835	43	129322	9.933	ppbv	98
19) Isopropyl Alcohol	1.887	45	17070	2.320	ppbv #	1
20) Methylene Chloride	2.065	84	7438	1.252	ppbv	85
26) Hexane	2.826	57	80300	6.523	ppbv #	42
29) Chloroform	2.852	83	9485	0.542	ppbv	97
30) Cyclohexane	3.855	84	3168	0.307	ppbv	96
34) 2-Butanone	2.560	43	3662	0.213	ppbv	93
36) Benzene	3.651	78	4197	0.180	ppbv #	92
41) Tetrahydrofuran	3.062	42	1915m	0.201	ppbv	
52) Tetrachloroethene	8.228	164	389m	0.045	ppbv	
53) Toluene	6.927	91	35245	1.274	ppbv	96
58) Ethyl Benzene	9.348	91	13112	0.356	ppbv	93
59) m/p-Xylene	9.526	91	20983	0.710	ppbv	96
60) o-Xylene	9.959	91	9061	0.307	ppbv	99

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

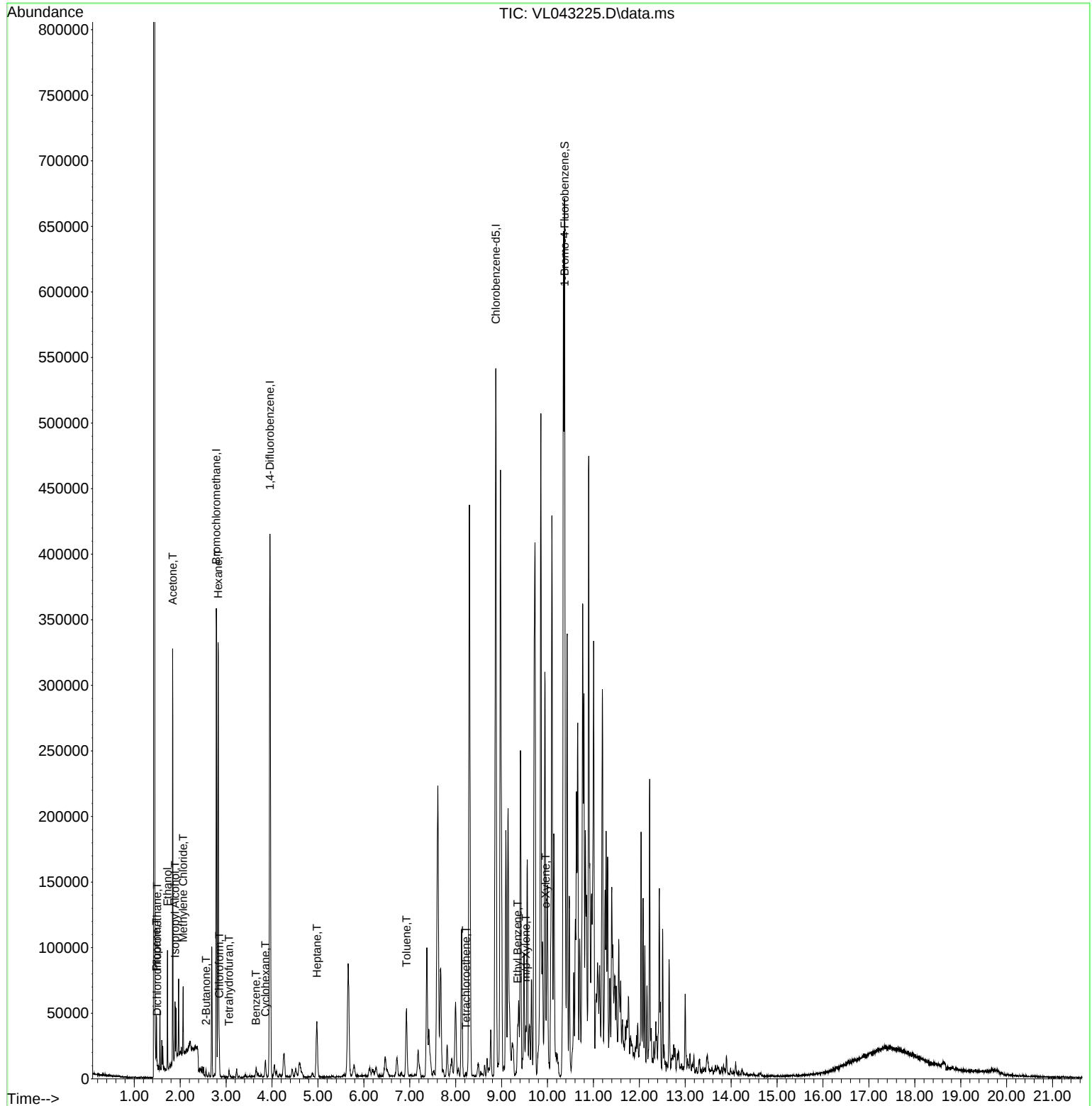
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043225.D
Acq On : 18 Nov 2025 22:05
Operator : SY/MD
Sample : Q3650-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

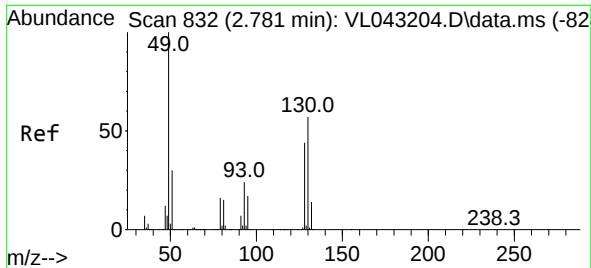
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Nov 19 01:41:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/19/2025
Supervised By : Mahesh Dadoda 11/19/2025





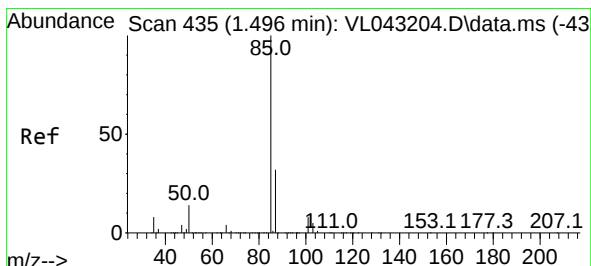
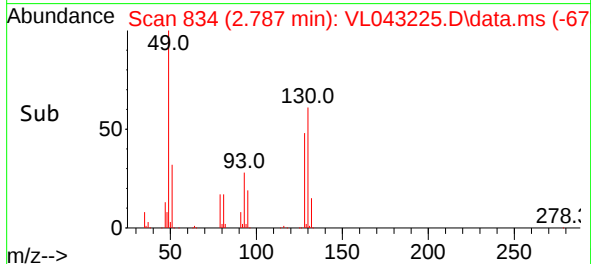
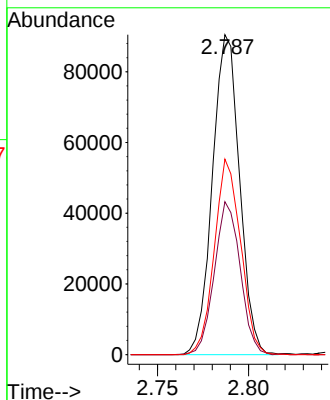
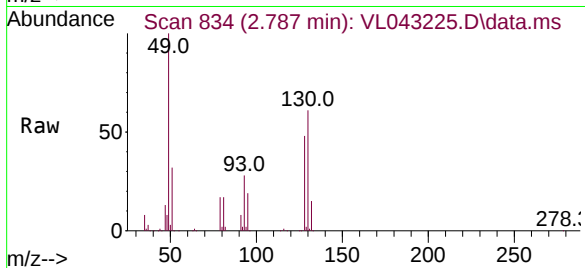
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 93700
Ion Ratio Lower Upper
49 100
128 45.6 23.0 69.0
130 59.1 29.9 89.7

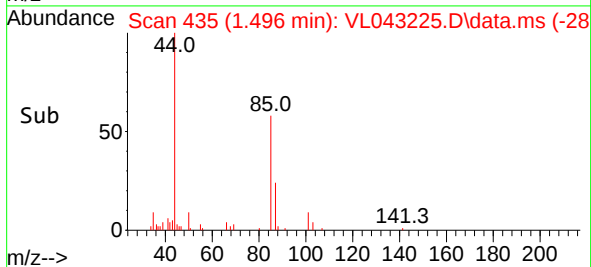
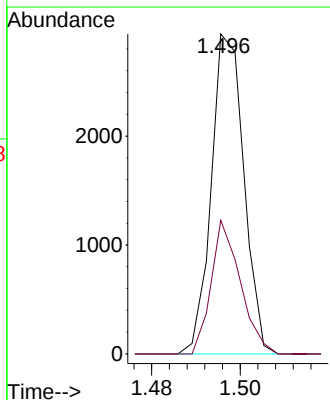
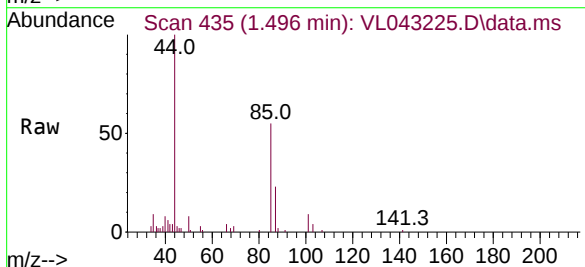
Manual Integrations
APPROVED

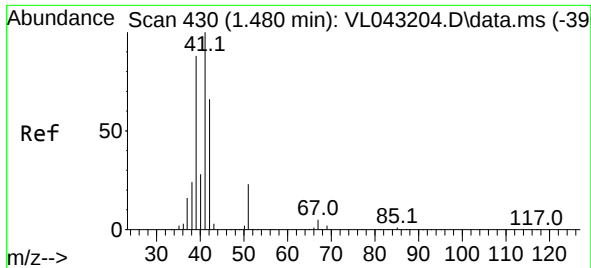
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.113 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Tgt Ion: 85 Resp: 1498
Ion Ratio Lower Upper
85 100
87 41.7 25.4 38.2#





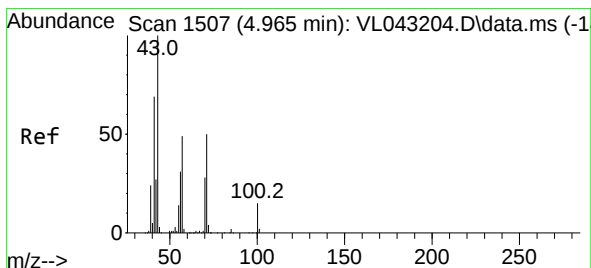
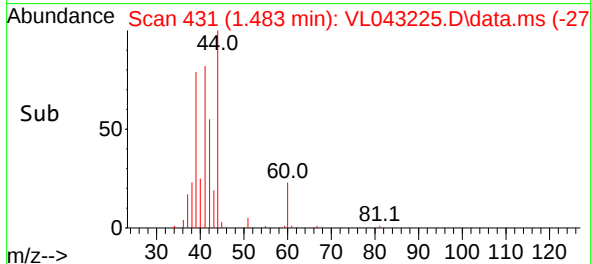
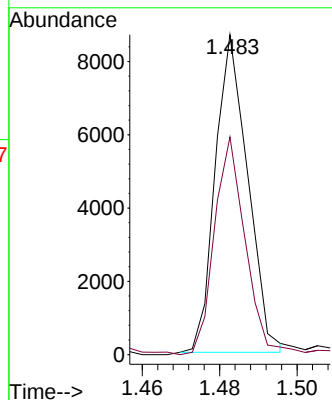
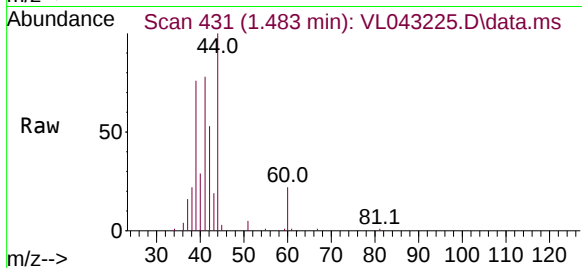
#9
 Propene
 Concen: 0.915 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.003 min
 Lab File: VL043225.D
 Acq: 18 Nov 2025 22:05

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 41 Resp: 5049
 Ion Ratio Lower Upper
 41 100
 42 69.8 3.7 5.5

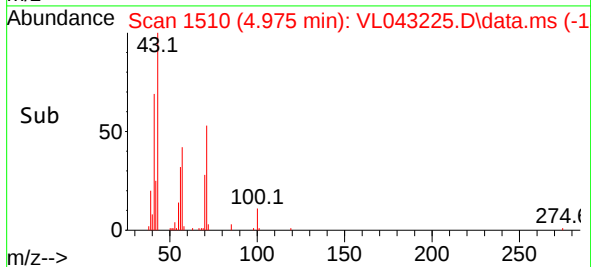
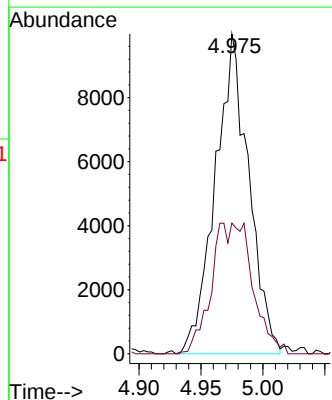
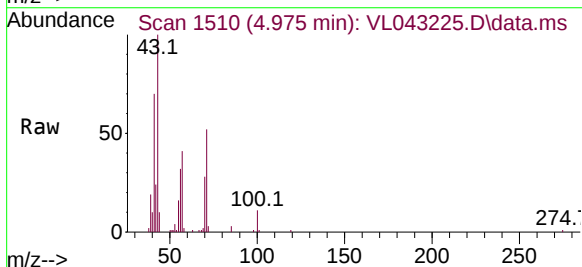
Manual Integrations
 APPROVED

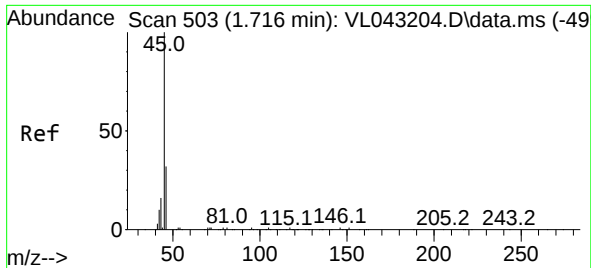
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 1.143 ppbv
 RT: 4.975 min Scan# 1510
 Delta R.T. 0.009 min
 Lab File: VL043225.D
 Acq: 18 Nov 2025 22:05

Tgt Ion: 43 Resp: 18772
 Ion Ratio Lower Upper
 43 100
 57 50.5 39.7 59.5





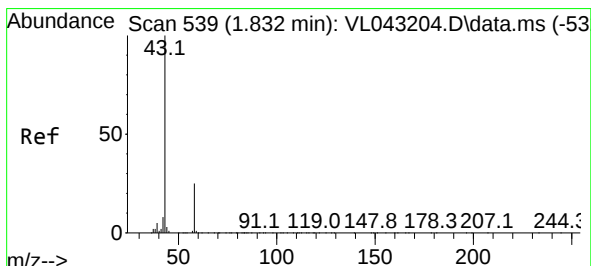
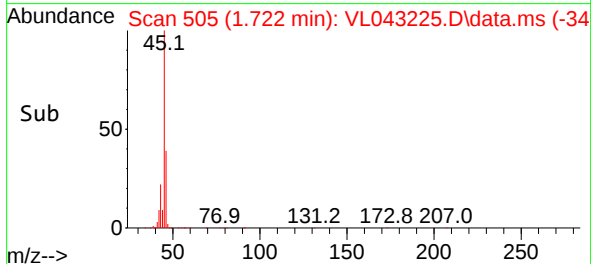
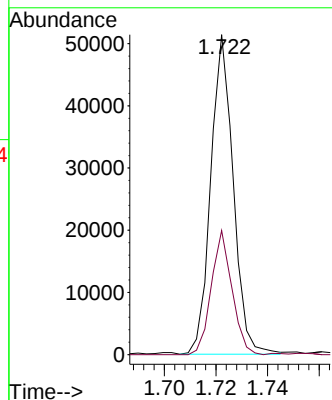
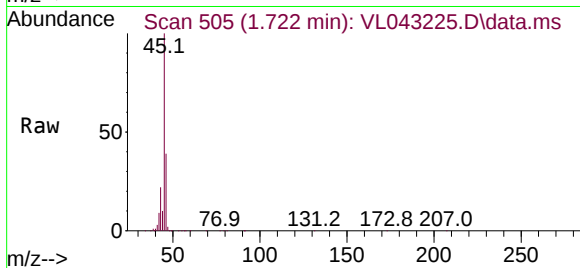
#13
Ethanol
Concen: 16.025 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 3110
Ion Ratio Lower Upper
45 100
46 36.3 15.0 59.8

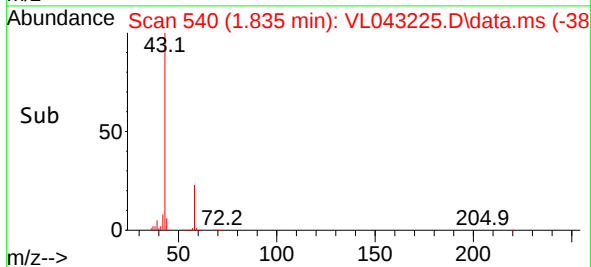
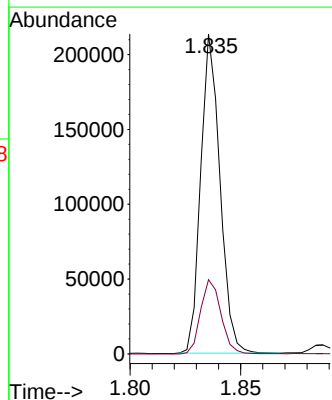
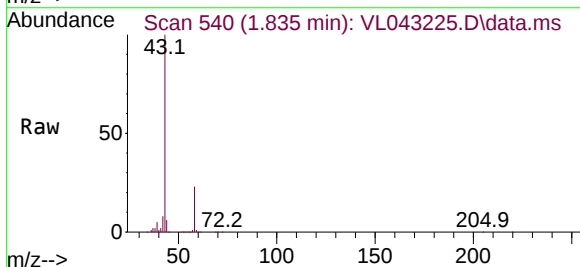
Manual Integrations
APPROVED

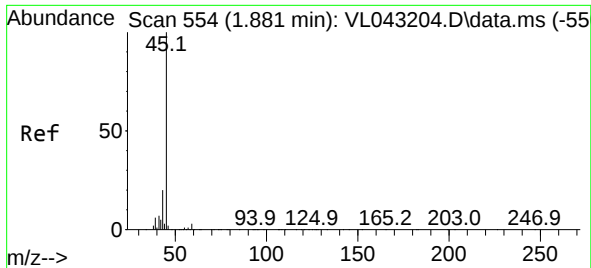
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 9.933 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

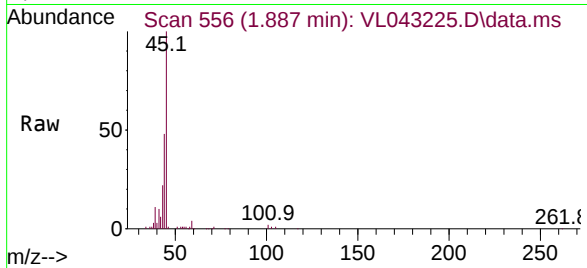
Tgt Ion: 43 Resp: 129322
Ion Ratio Lower Upper
43 100
58 24.7 20.7 31.1





#19
Isopropyl Alcohol
Concen: 2.320 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

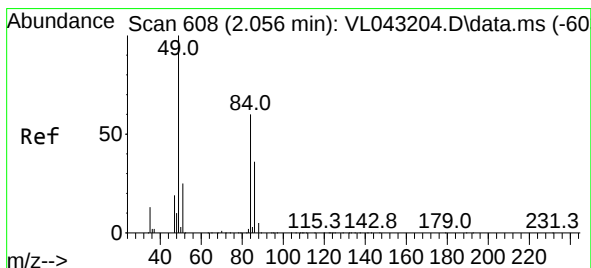
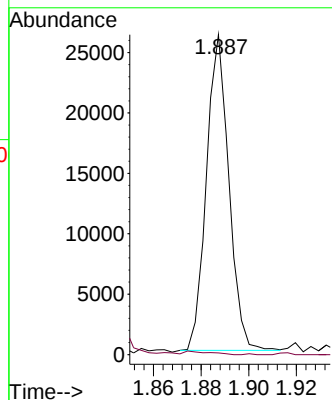
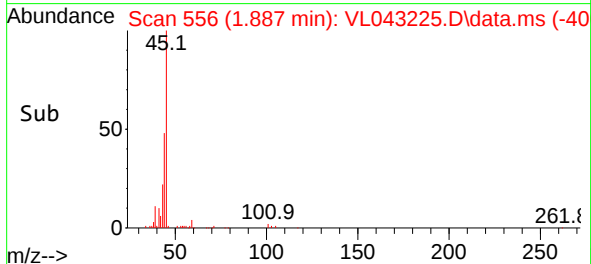
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 45 Resp: 17070
Ion Ratio Lower Upper
45 100
58 185.8 31.3 46.9

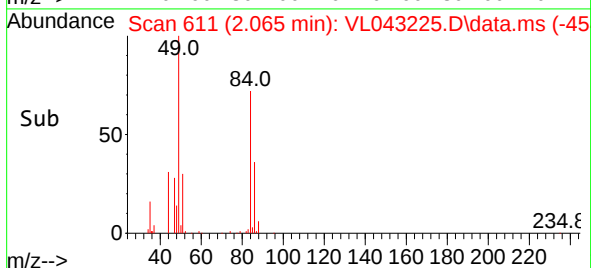
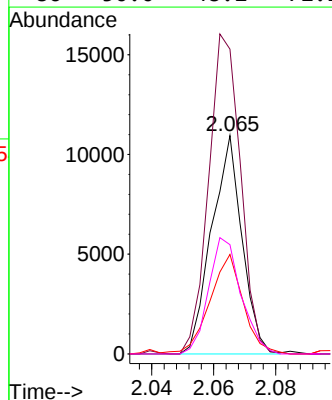
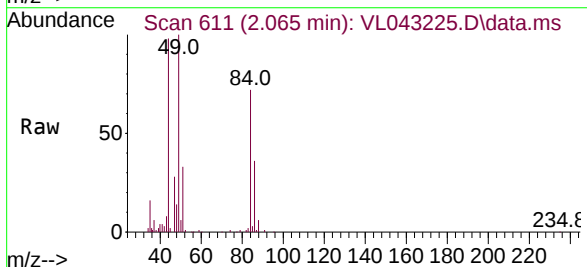
Manual Integrations
APPROVED

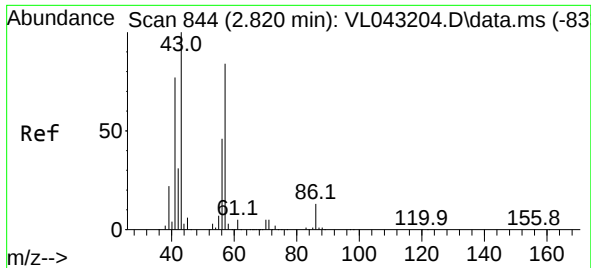
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 1.252 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.009 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

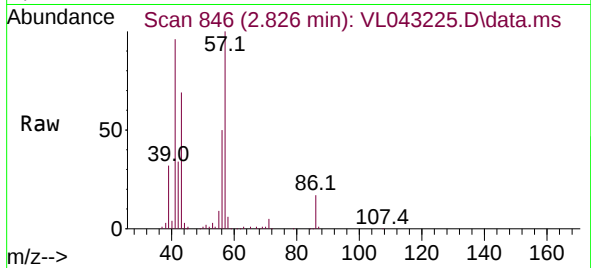
Tgt Ion: 84 Resp: 7438
Ion Ratio Lower Upper
84 100
49 139.6 132.9 199.3
51 44.7 34.8 52.2
86 50.0 48.2 72.2





#26
Hexane
Concen: 6.523 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

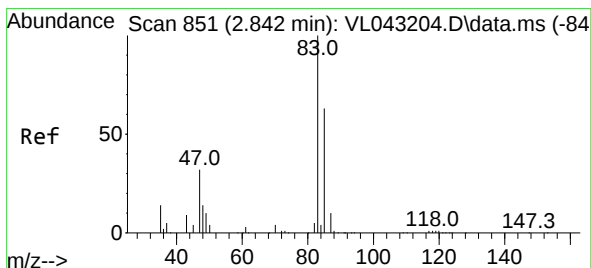
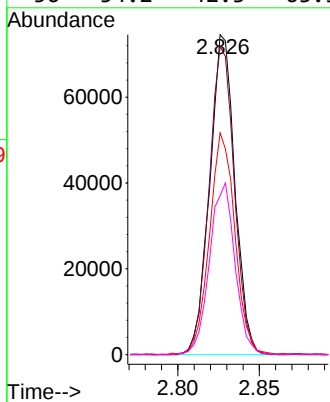
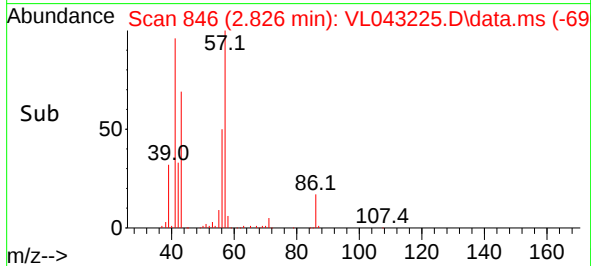
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 80300
Ion Ratio Lower Upper
57 100
41 97.2 74.6 111.8
43 70.7 179.0 268.4
56 54.2 42.3 63.5

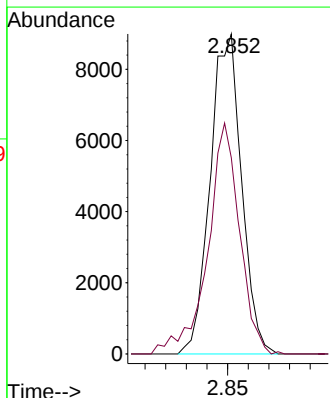
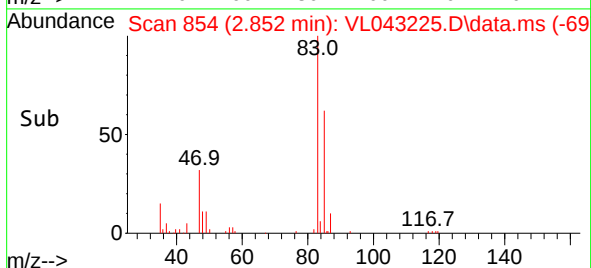
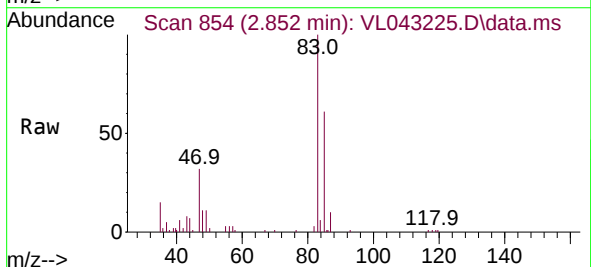
Manual Integrations
APPROVED

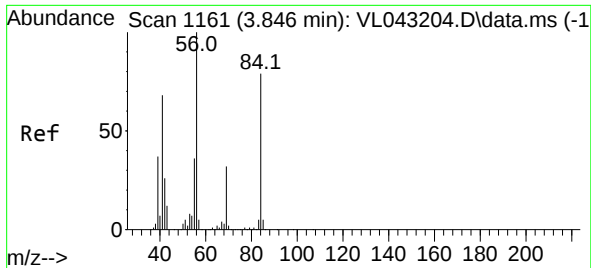
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#29
Chloroform
Concen: 0.542 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.009 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

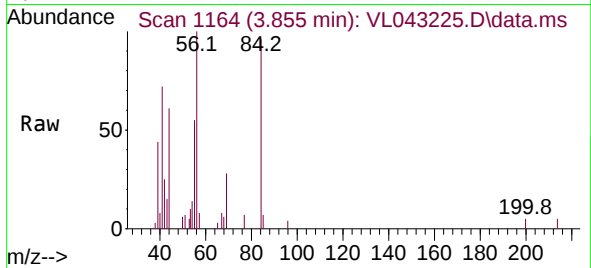
Tgt Ion: 83 Resp: 9485
Ion Ratio Lower Upper
83 100
85 60.6 50.5 75.7





#30
Cyclohexane
Concen: 0.307 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.010 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

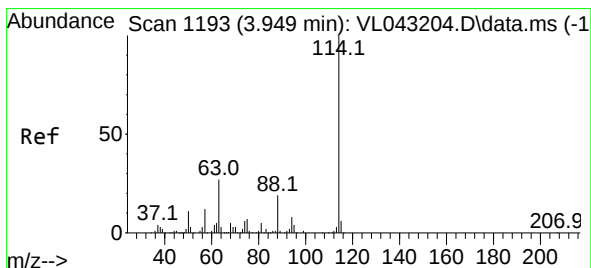
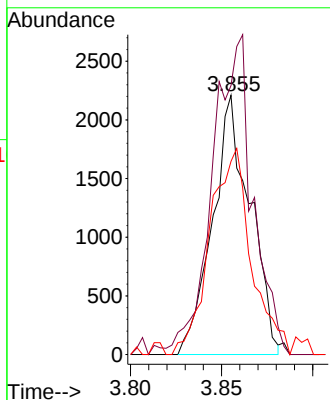
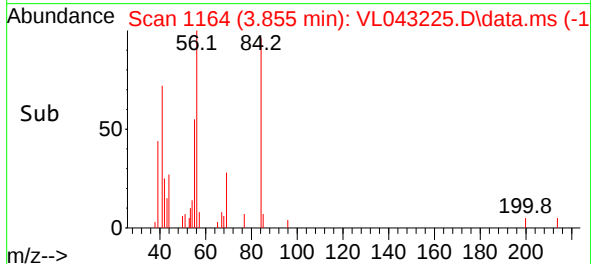
Instrument :
MSVOA_L
ClientSampleId :
SV1



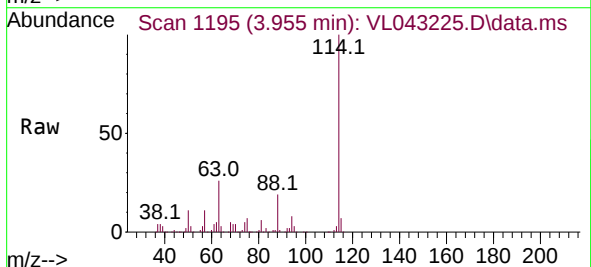
Tgt Ion: 84 Resp: 3168
Ion Ratio Lower Upper
84 100
56 134.7 104.7 157.1
41 91.3 69.0 103.6

Manual Integrations
APPROVED

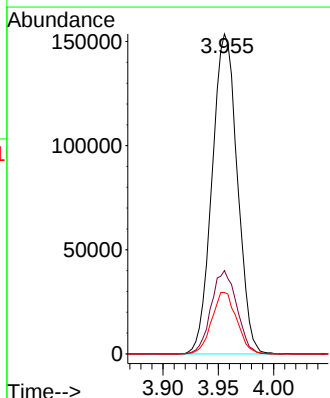
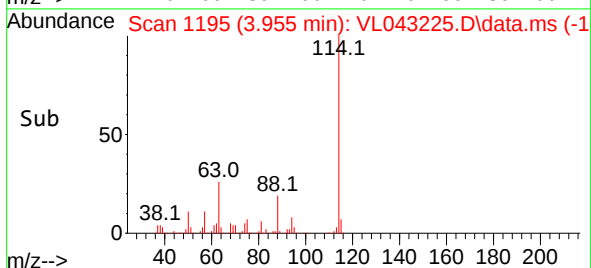
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

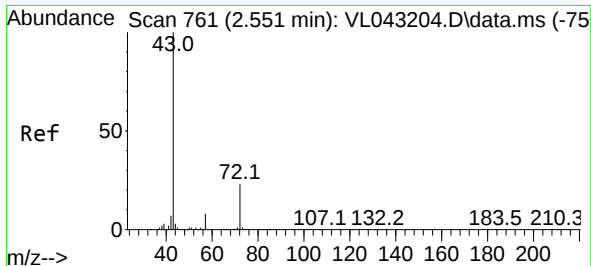


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05



Tgt Ion:114 Resp: 243965
Ion Ratio Lower Upper
114 100
63 26.4 21.0 31.6
88 19.0 14.9 22.3





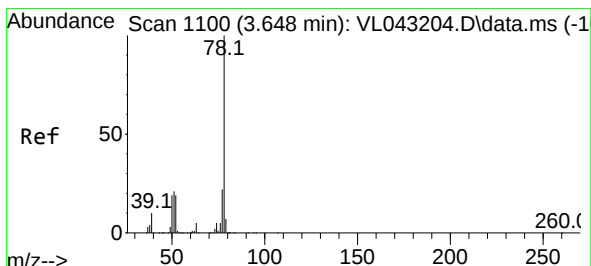
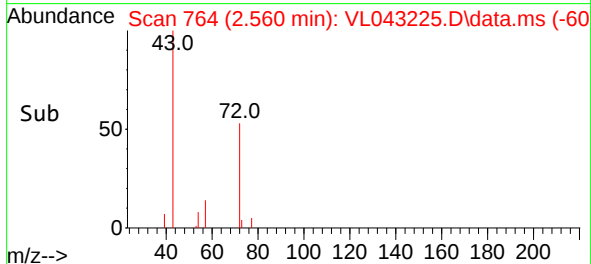
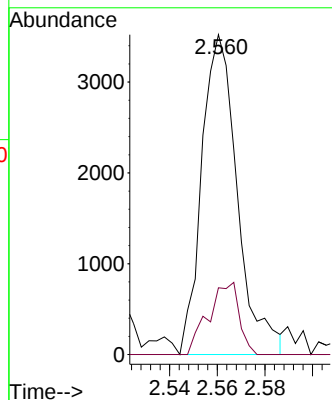
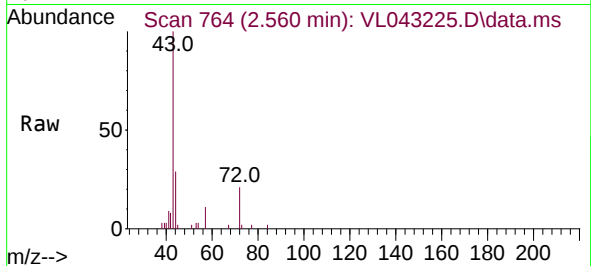
#34
2-Butanone
Concen: 0.213 ppbv
RT: 2.560 min Scan# 761
Delta R.T. 0.009 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Instrument :
MSVOA_L
Client Sample Id :
SV1

Tgt Ion: 43 Resp: 3662
Ion Ratio Lower Upper
43 100
72 19.4 18.1 27.1

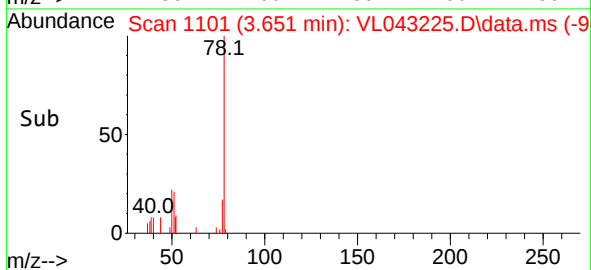
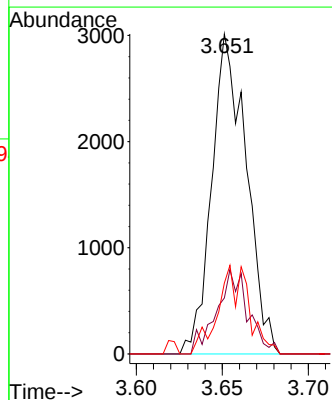
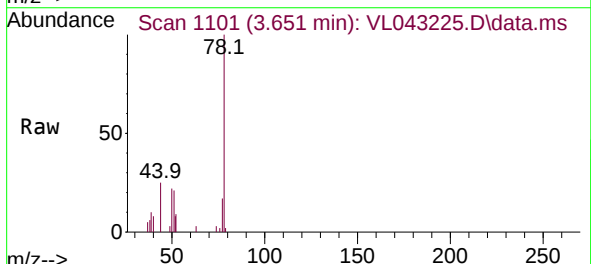
Manual Integrations
APPROVED

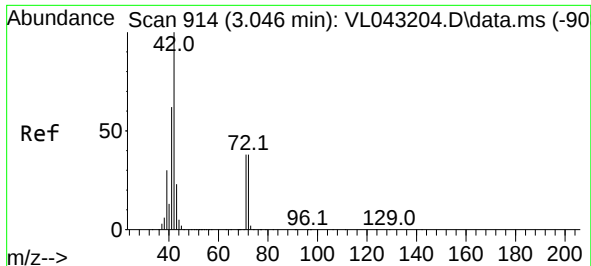
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#36
Benzene
Concen: 0.180 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

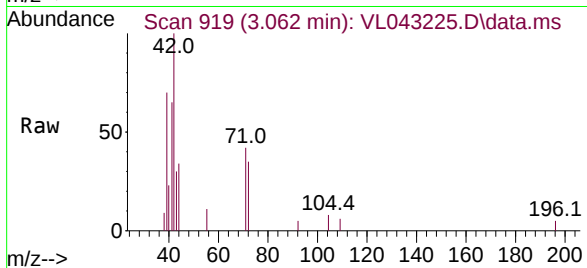
Tgt Ion: 78 Resp: 4197
Ion Ratio Lower Upper
78 100
77 17.5 17.5 26.3#
50 22.2 15.5 23.3





#41
Tetrahydrofuran
Concen: 0.201 ppbv m
RT: 3.062 min Scan# 914
Delta R.T. 0.016 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

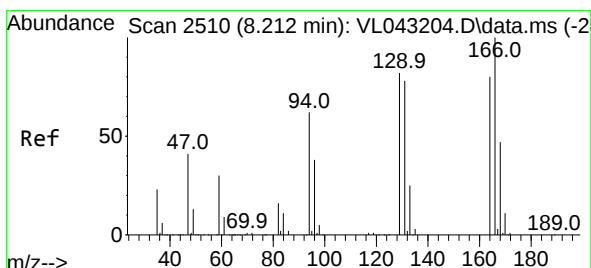
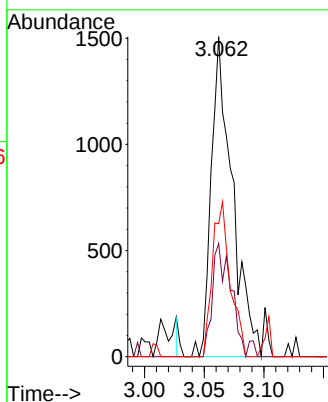
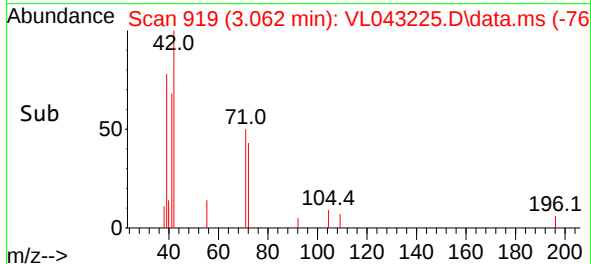
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 42 Resp: 1915
Ion Ratio Lower Upper
42 100
72 0.0 30.6 46.0
71 0.0 30.5 45.7

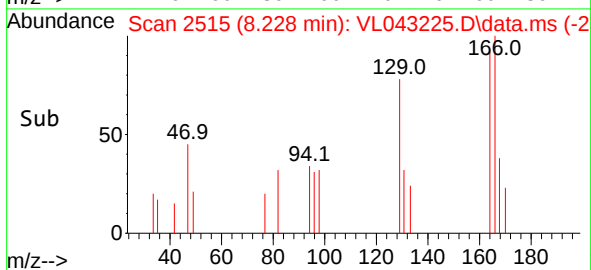
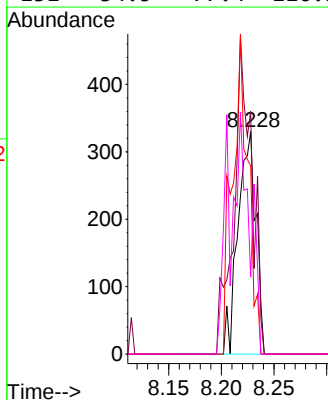
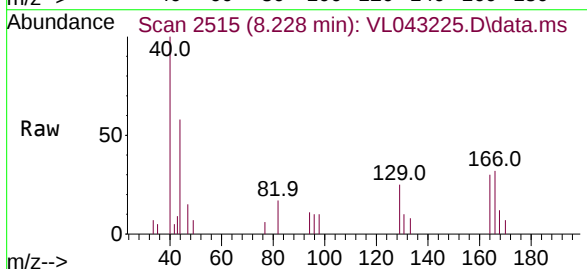
Manual Integrations
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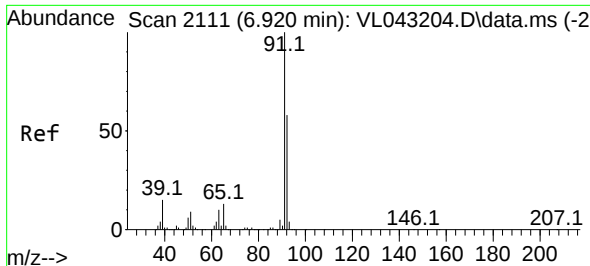
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#52
Tetrachloroethene
Concen: 0.045 ppbv m
RT: 8.228 min Scan# 2515
Delta R.T. 0.016 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Tgt Ion:164 Resp: 389
Ion Ratio Lower Upper
164 100
166 109.1 99.4 149.2
129 84.5 81.8 122.8
131 34.5 77.4 116.2#





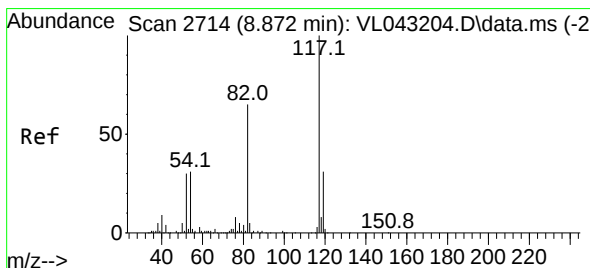
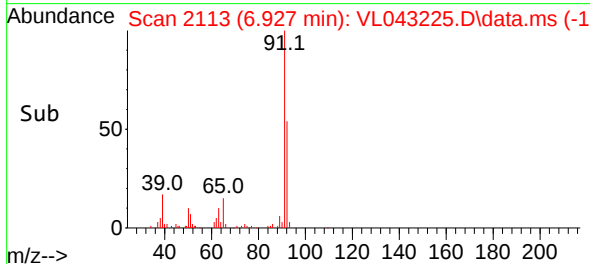
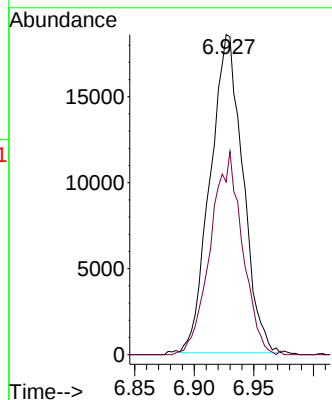
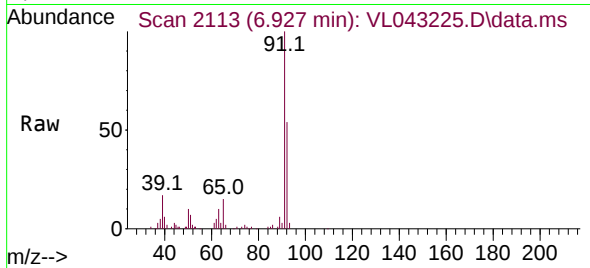
#53
Toluene
Concen: 1.274 ppbv
RT: 6.927 min Scan# 2111
Delta R.T. 0.006 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 35245
Ion Ratio Lower Upper
91 100
92 62.3 47.4 71.0

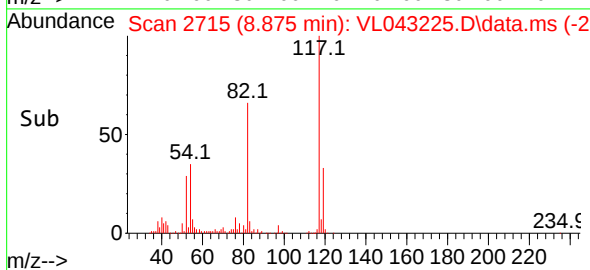
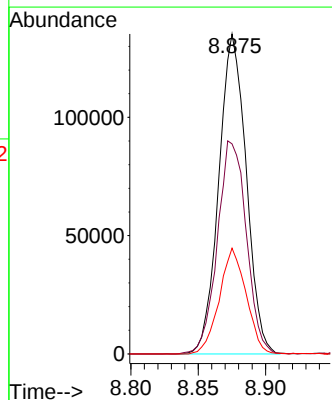
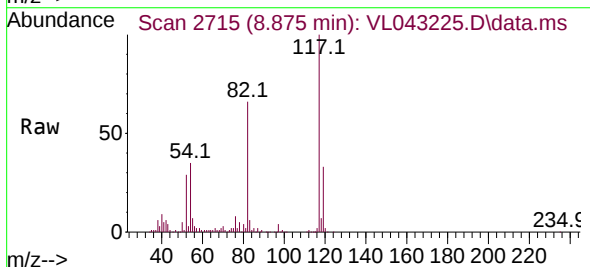
Manual Integrations
APPROVED

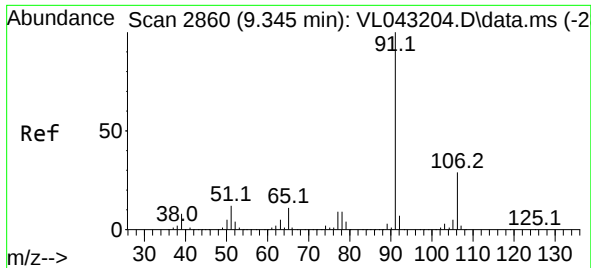
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Tgt Ion:117 Resp: 191464
Ion Ratio Lower Upper
117 100
82 70.3 56.1 84.1
119 32.4 25.0 37.6





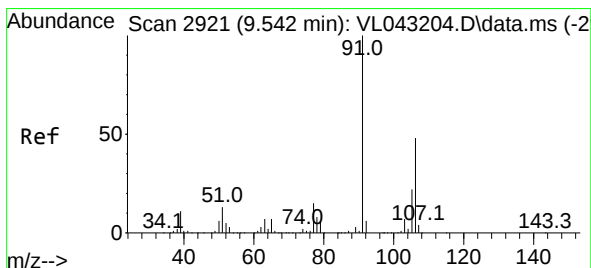
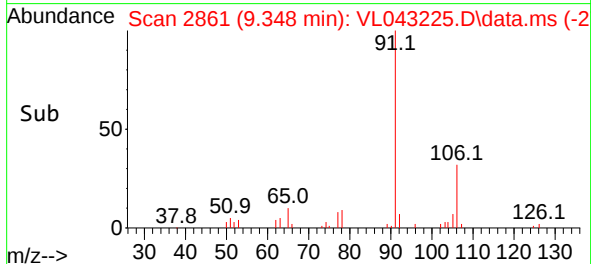
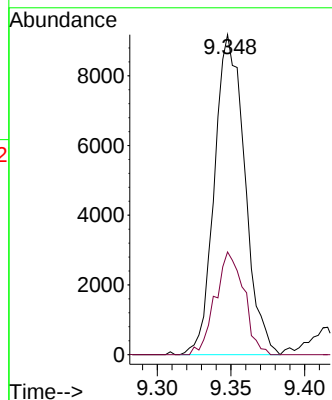
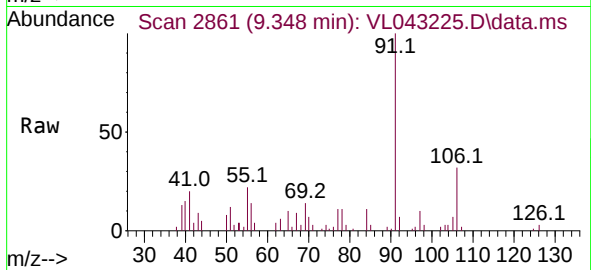
#58
Ethyl Benzene
Concen: 0.356 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 13112
Ion Ratio Lower Upper
91 100
106 32.1 22.8 34.2

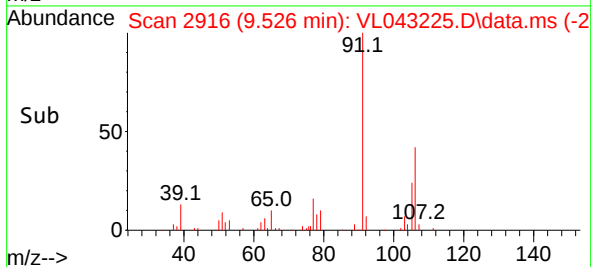
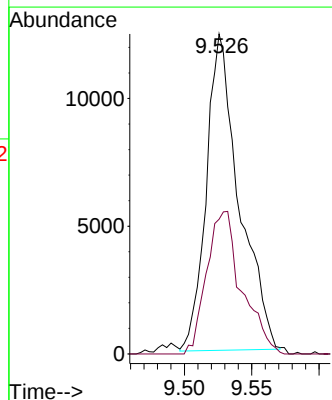
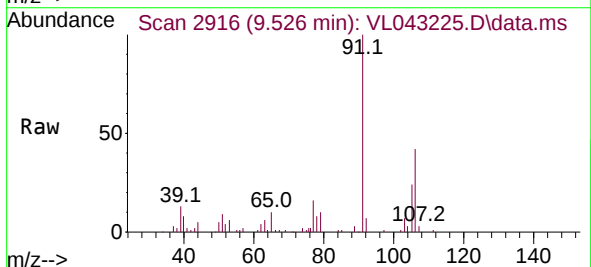
Manual Integrations
APPROVED

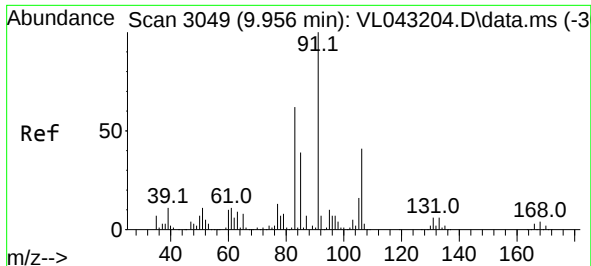
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#59
m/p-Xylene
Concen: 0.710 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

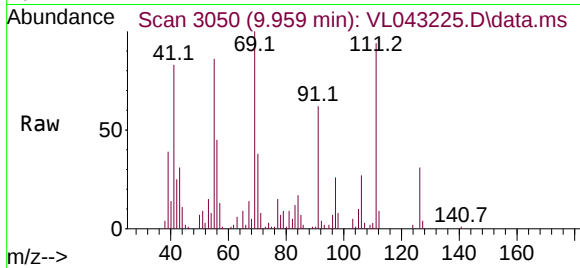
Tgt Ion: 91 Resp: 20983
Ion Ratio Lower Upper
91 100
106 48.0 36.1 54.1





#60
o-Xylene
Concen: 0.307 ppbv
RT: 9.959 min Scan# 3049
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05

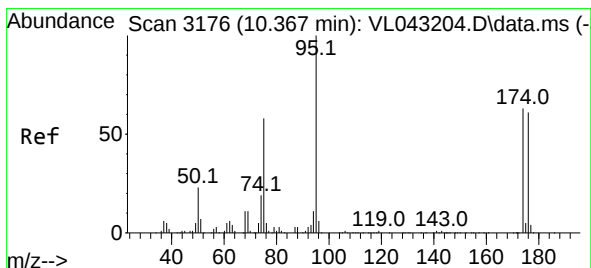
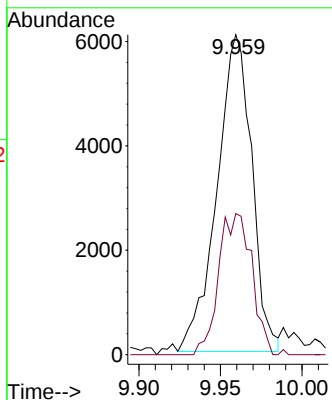
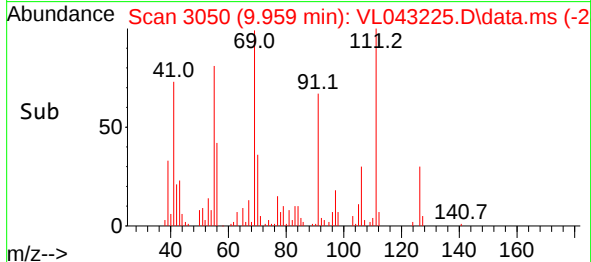
Instrument :
MSVOA_L
ClientSampleId :
SV1



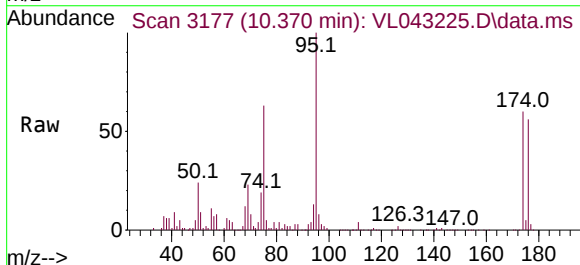
Tgt Ion: 91 Resp: 9061
Ion Ratio Lower Upper
91 100
106 42.4 20.9 62.8

Manual Integrations
APPROVED

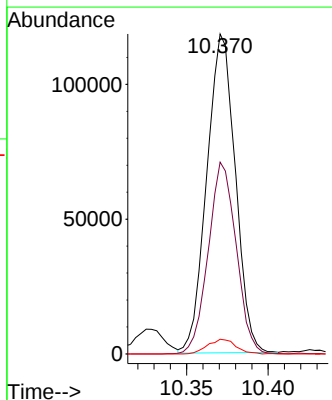
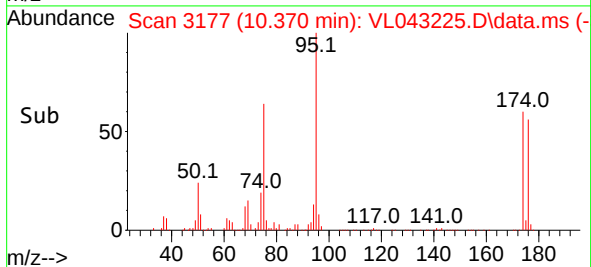
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.277 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043225.D
Acq: 18 Nov 2025 22:05



Tgt Ion: 95 Resp: 144231
Ion Ratio Lower Upper
95 100
174 58.9 50.2 75.2
175 4.5 4.1 6.1



Report of Analysis

Client: GFE LLC
Project: 470 TO 472 WESTBURY AVE
Client Sample ID: SV2
Lab Sample ID: Q3650-02
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3650
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.10	0.26	U	4	0.26	0.31	11/18/25 22:37	VL111825
142-82-5	Heptane	1.70	6.97	J	4	2.79	8.20	11/18/25 22:37	VL111825
75-34-3	1,1-Dichloroethane	0.52	2.10	U	4	2.10	8.09	11/18/25 22:37	VL111825
110-82-7	Cyclohexane	0.88	3.03	U	4	3.03	6.88	11/18/25 22:37	VL111825
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	U	4	1.59	7.93	11/18/25 22:37	VL111825
71-55-6	1,1,1-Trichloroethane	0.060	0.33	U	4	0.33	0.65	11/18/25 22:37	VL111825
540-84-1	2,2,4-Trimethylpentane	0.56	2.62	U	4	2.62	9.34	11/18/25 22:37	VL111825
71-43-2	Benzene	1.20	3.83	J	4	1.02	6.39	11/18/25 22:37	VL111825
79-01-6	Trichloroethene	0.10	0.54	U	4	0.54	0.64	11/18/25 22:37	VL111825
108-88-3	Toluene	2.40	9.04		4	2.41	7.54	11/18/25 22:37	VL111825
127-18-4	Tetrachloroethene	0.44	2.98		4	0.41	0.81	11/18/25 22:37	VL111825
100-41-4	Ethyl Benzene	0.76	3.30	U	4	3.30	8.69	11/18/25 22:37	VL111825
179601-23-1	m/p-Xylene	1.60	6.95	U	4	6.95	17.4	11/18/25 22:37	VL111825
95-47-6	o-Xylene	0.84	3.65	U	4	3.65	8.69	11/18/25 22:37	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/18/25 22:37	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.72	3.54	U	4	3.54	9.83	11/18/25 22:37	VL111825
91-20-3	Naphthalene	0.050	0.26	U	4	0.26	2.10	11/18/25 22:37	VL111825
110-54-3	Hexane	10.3	36.3		4	2.26	7.05	11/18/25 22:37	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.4		65 - 135	104%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	101000
540-36-3	1,4-Difluorobenzene	262000
3114-55-4	Chlorobenzene-d5	206000

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\VL111825\
 Data File : VL043226.D
 Acq On : 18 Nov 2025 22:37
 Operator : SY/MD
 Sample : Q3650-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:41:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	101095	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	261880	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	206328	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	157815	10.435	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	1823	0.128	ppbv	94
9) Propene	1.483	41	7066	1.187	ppbv #	1
10) Heptane	4.982	43	7732m	0.436	ppbv	
13) Ethanol	1.722	45	5393	2.576	ppbv #	38
15) Acetone	1.839	43	95505	6.800	ppbv	100
19) Isopropyl Alcohol	1.887	45	5663	0.714	ppbv #	1
20) Methylene Chloride	2.069	84	4456	0.317	ppbv #	73
26) Hexane	2.829	57	34356	2.587	ppbv #	43
29) Chloroform	2.855	83	7704	0.408	ppbv	96
30) Cyclohexane	3.862	84	1993m	0.179	ppbv	
34) 2-Butanone	2.561	43	2944m	0.159	ppbv	
36) Benzene	3.658	78	7571	0.302	ppbv #	94
52) Tetrachloroethene	8.221	164	1036m	0.111	ppbv	
53) Toluene	6.927	91	17606m	0.593	ppbv	
58) Ethyl Benzene	9.354	91	5050m	0.127	ppbv	
59) m/p-Xylene	9.526	91	11875m	0.373	ppbv	
60) o-Xylene	9.960	91	4685	0.147	ppbv	97

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

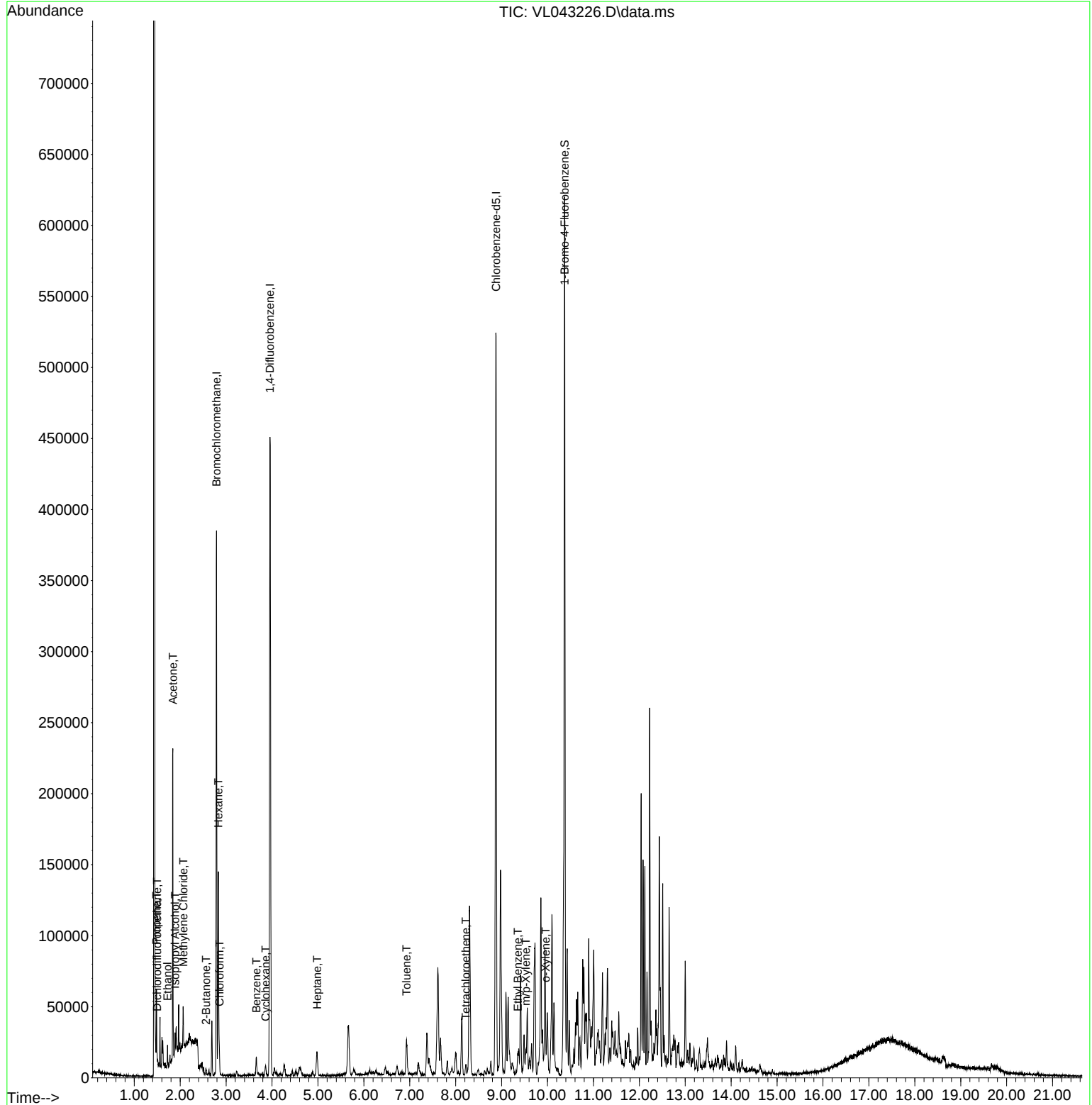
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Data File : VL043226.D
Acq On : 18 Nov 2025 22:37
Operator : SY/MD
Sample : Q3650-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

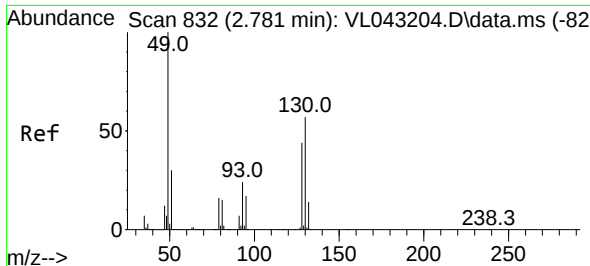
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Nov 19 01:41:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025





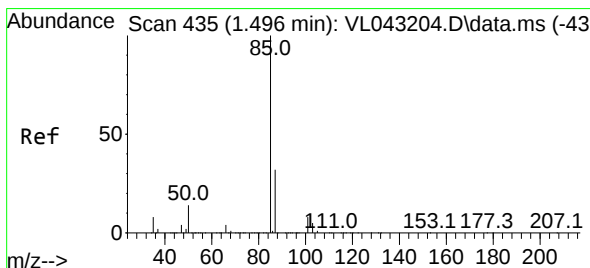
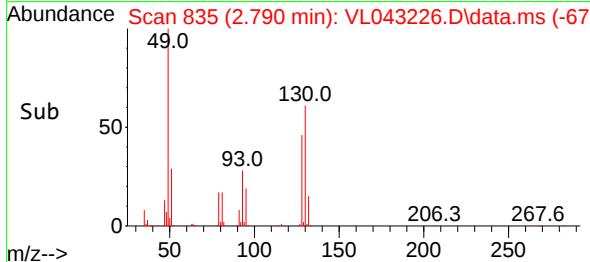
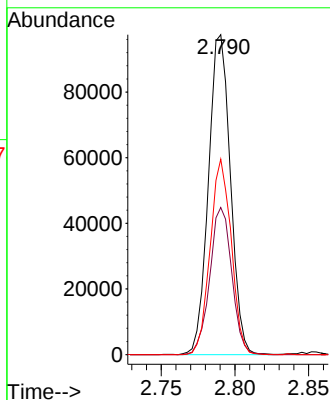
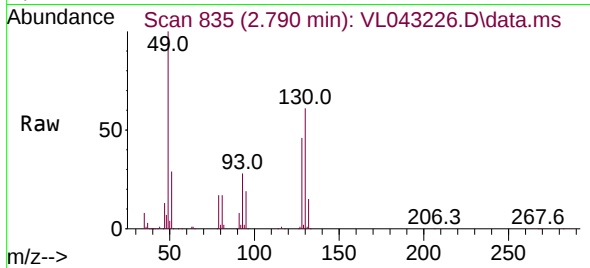
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 832
Delta R.T. 0.009 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 101095
Ion Ratio Lower Upper
49 100
128 45.9 23.0 69.0
130 58.4 29.9 89.7

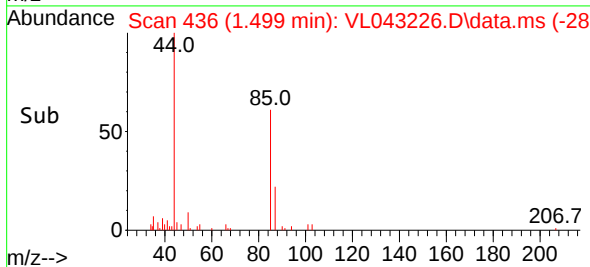
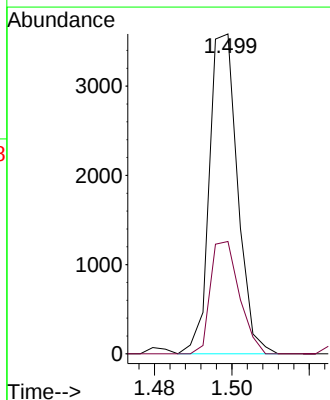
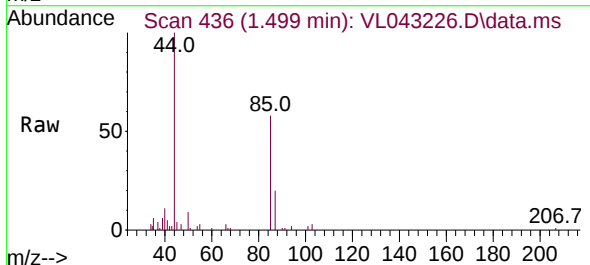
Manual Integrations
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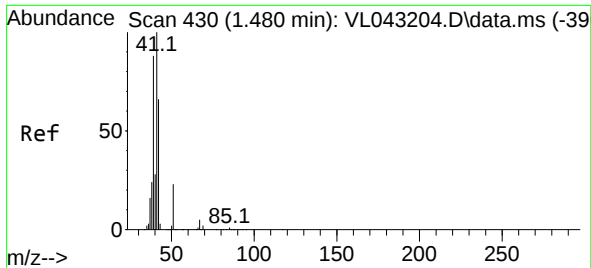
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.128 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Tgt Ion: 85 Resp: 1823
Ion Ratio Lower Upper
85 100
87 35.1 25.4 38.2





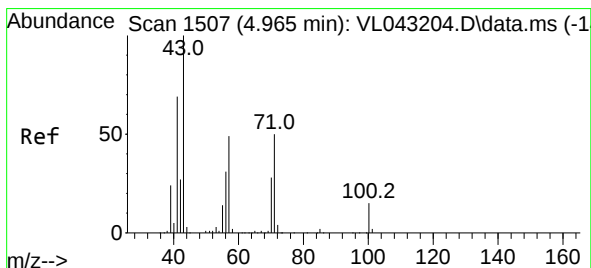
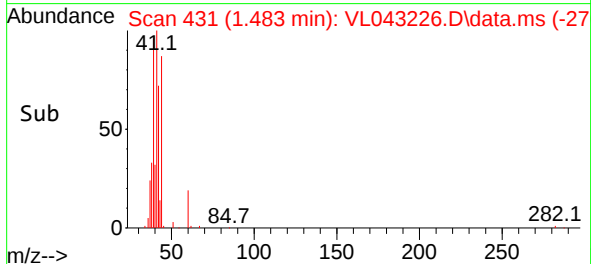
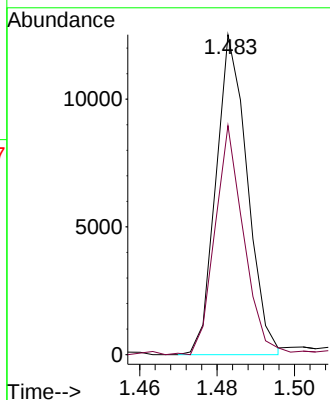
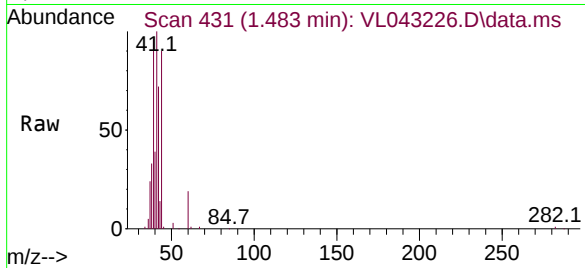
#9
 Propene
 Concen: 1.187 ppbv
 RT: 1.483 min Scan# 431
 Delta R.T. 0.003 min
 Lab File: VL043226.D
 Acq: 18 Nov 2025 22:37

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion: 41 Resp: 7066
 Ion Ratio Lower Upper
 41 100
 42 69.1 3.7 5.5

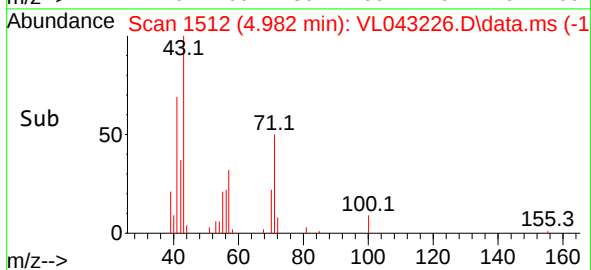
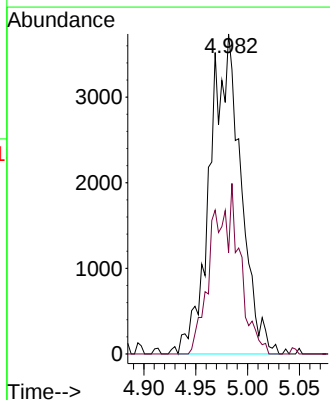
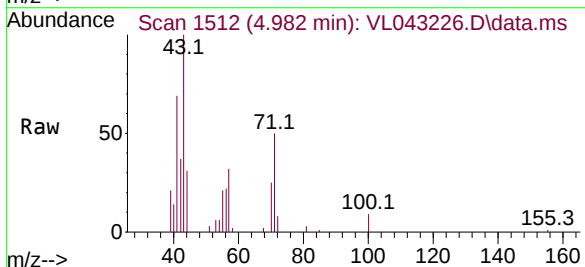
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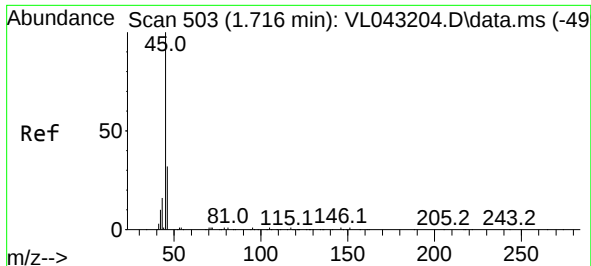
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



#10
 Heptane
 Concen: 0.436 ppbv m
 RT: 4.982 min Scan# 1512
 Delta R.T. 0.016 min
 Lab File: VL043226.D
 Acq: 18 Nov 2025 22:37

Tgt Ion: 43 Resp: 7732
 Ion Ratio Lower Upper
 43 100
 57 47.5 39.7 59.5





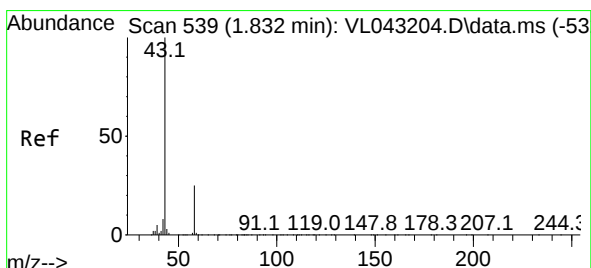
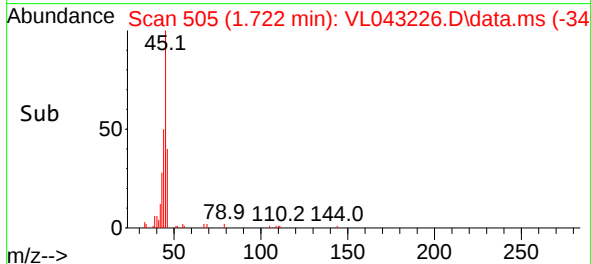
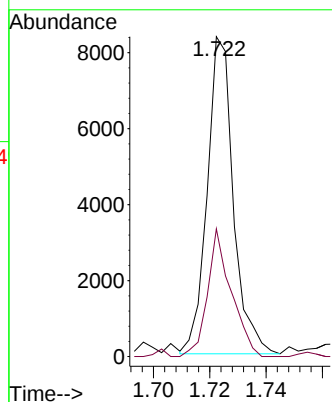
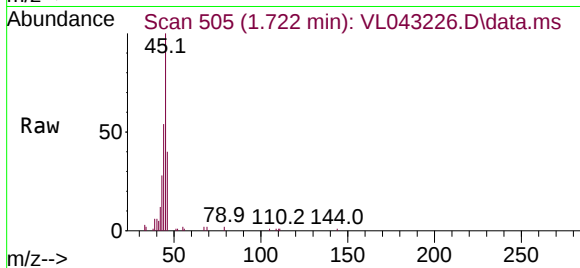
#13
Ethanol
Concen: 2.576 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 5393
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8

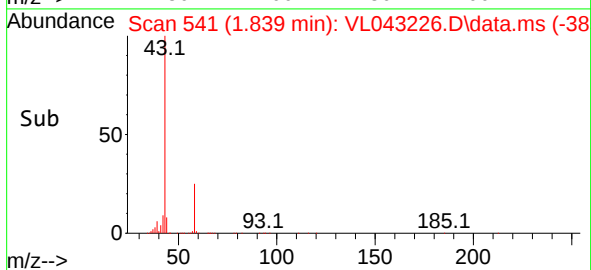
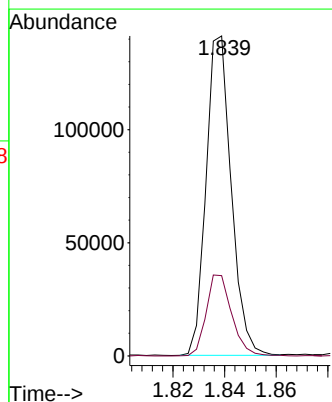
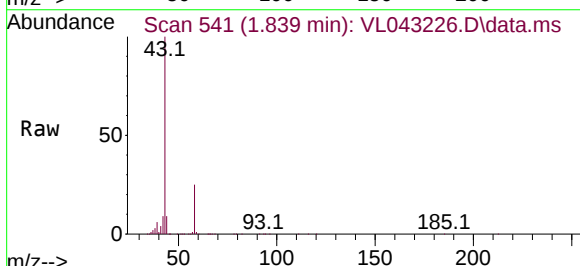
Manual Integrations
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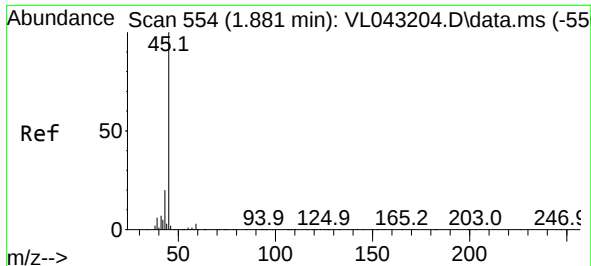
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 6.800 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Tgt Ion: 43 Resp: 95505
Ion Ratio Lower Upper
43 100
58 26.0 20.7 31.1





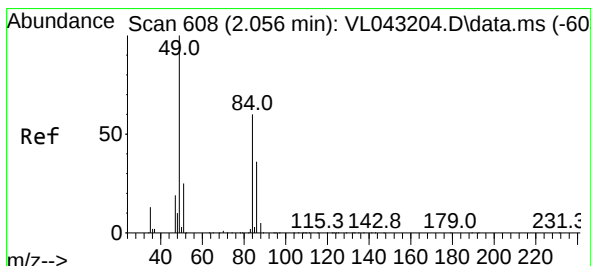
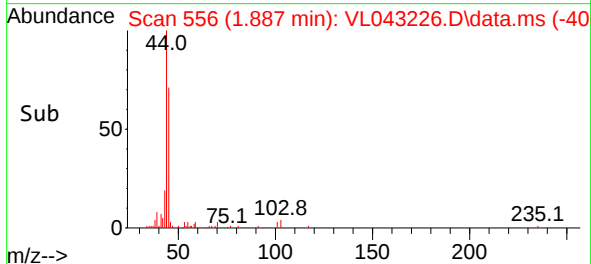
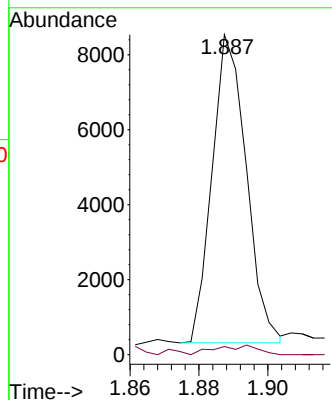
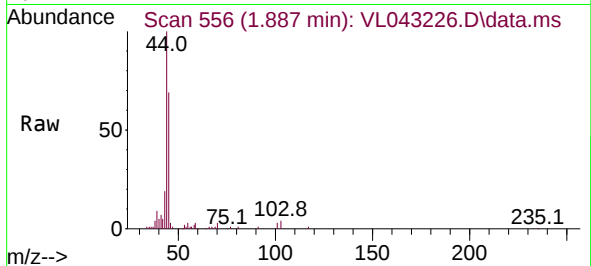
#19
Isopropyl Alcohol
Concen: 0.714 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 5663
Ion Ratio Lower Upper
45 100
58 438.4 31.3 46.9#

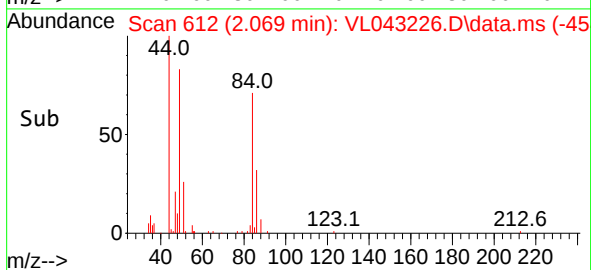
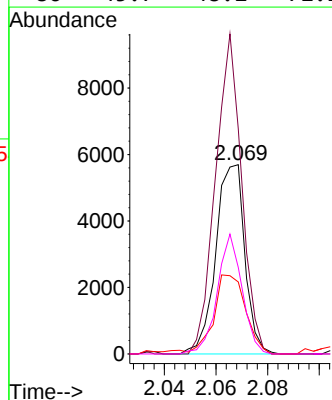
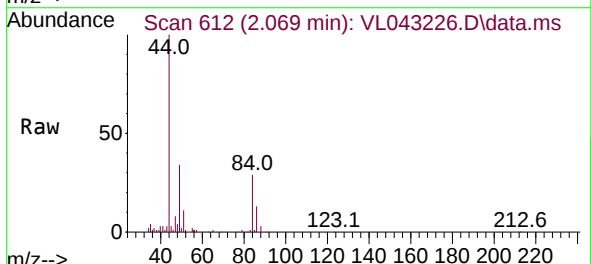
Manual Integrations
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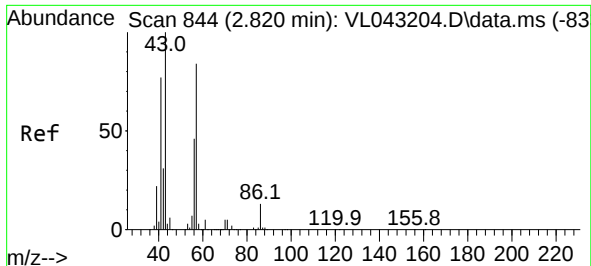
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 0.317 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.013 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

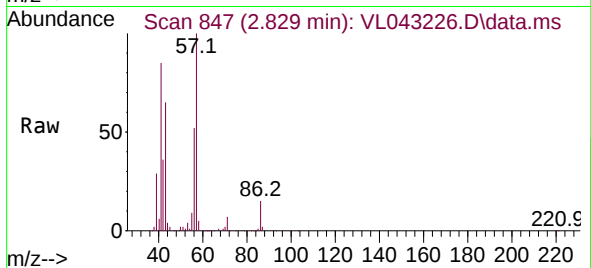
Tgt Ion: 84 Resp: 4456
Ion Ratio Lower Upper
84 100
49 119.0 132.9 199.3#
51 38.0 34.8 52.2
86 45.7 48.2 72.2#





#26
Hexane
Concen: 2.587 ppbv
RT: 2.829 min Scan# 844
Delta R.T. 0.010 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

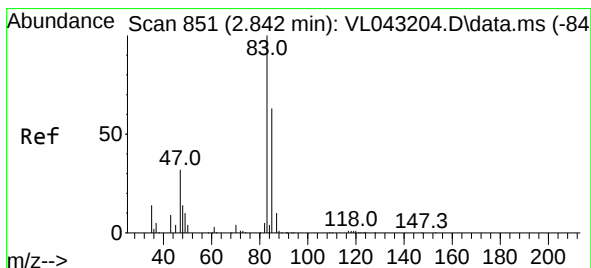
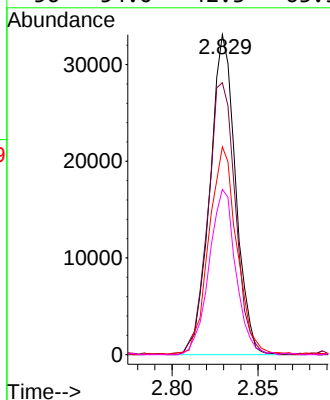
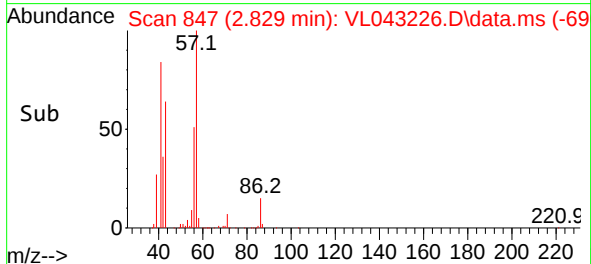
Instrument :
MSVOA_L
ClientSampleId :
SV2



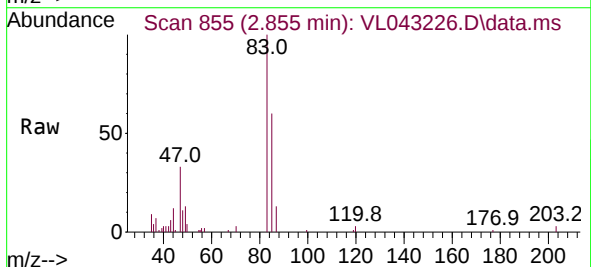
Tgt Ion: 57 Resp: 34356
Ion Ratio Lower Upper
57 100
41 91.6 74.6 111.8
43 71.5 179.0 268.4
56 54.0 42.3 63.5

Manual Integrations
APPROVED

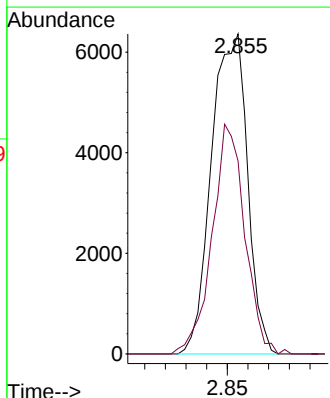
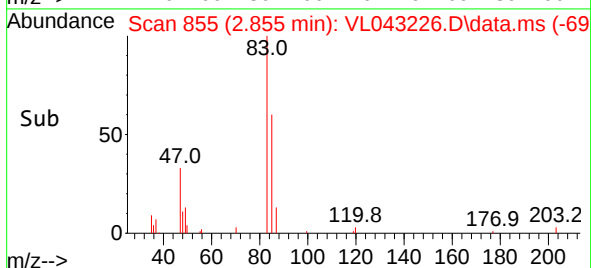
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

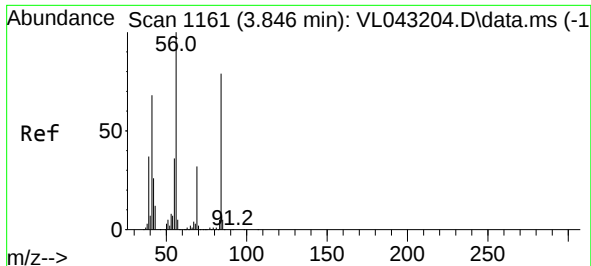


#29
Chloroform
Concen: 0.408 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.013 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37



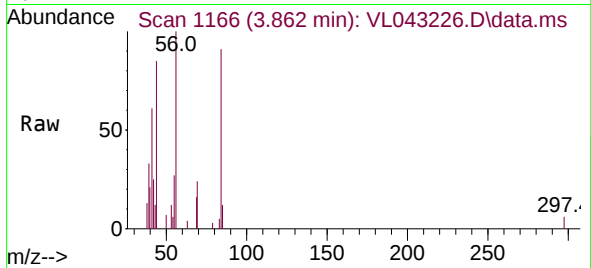
Tgt Ion: 83 Resp: 7704
Ion Ratio Lower Upper
83 100
85 60.3 50.5 75.7





#30
Cyclohexane
Concen: 0.179 ppbv m
RT: 3.862 min Scan# 1161
Delta R.T. 0.016 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

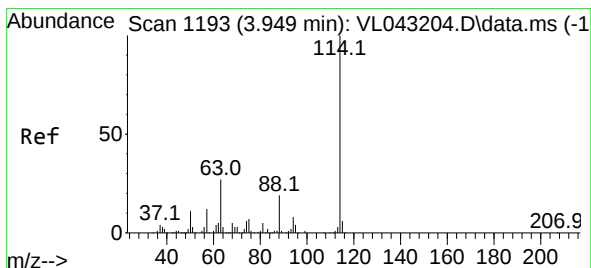
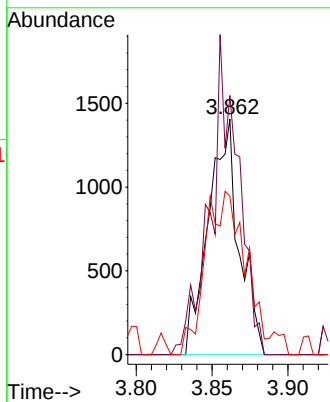
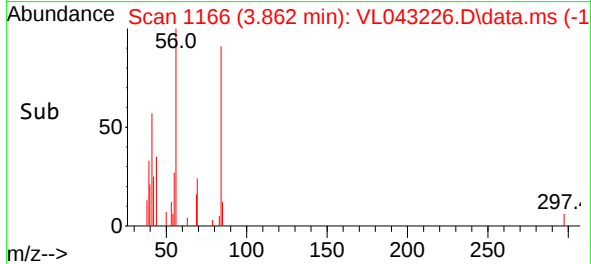
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 84 Resp: 1993
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1
41 98.5 69.0 103.6

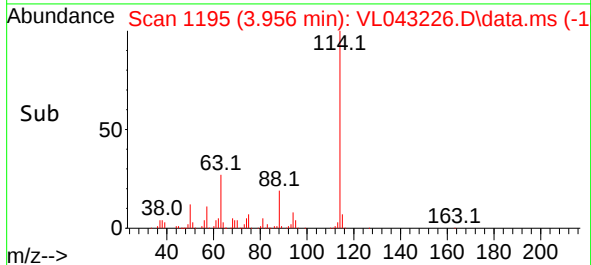
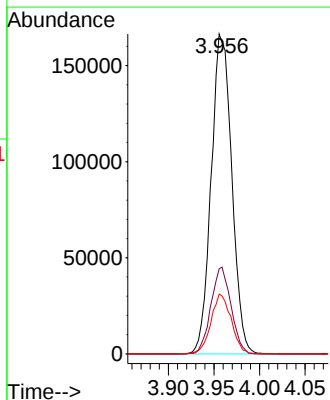
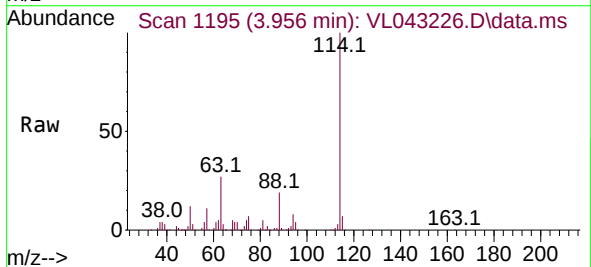
Manual Integrations
APPROVED

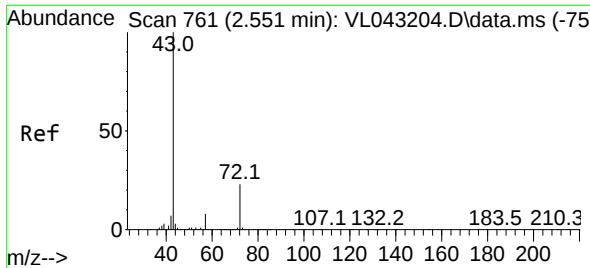
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

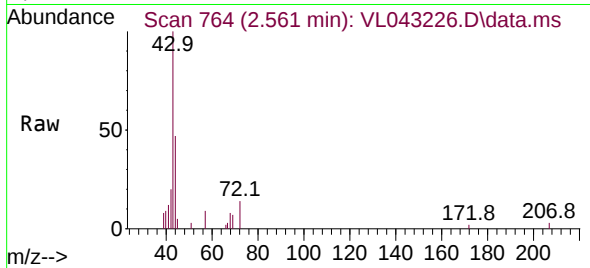
Tgt Ion:114 Resp: 261880
Ion Ratio Lower Upper
114 100
63 26.4 21.0 31.6
88 18.2 14.9 22.3





#34
2-Butanone
Concen: 0.159 ppbv m
RT: 2.561 min Scan# 761
Delta R.T. 0.010 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

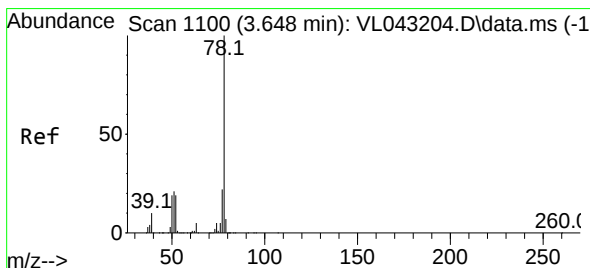
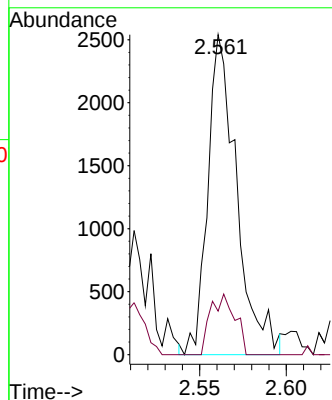
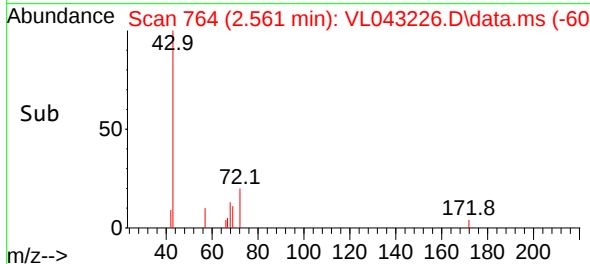
Instrument :
MSVOA_L
ClientSampleId :
SV2



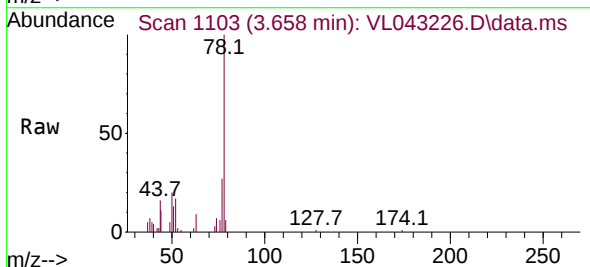
Tgt Ion: 43 Resp: 2944
Ion Ratio Lower Upper
43 100
72 0.0 18.1 27.1

Manual Integrations
APPROVED

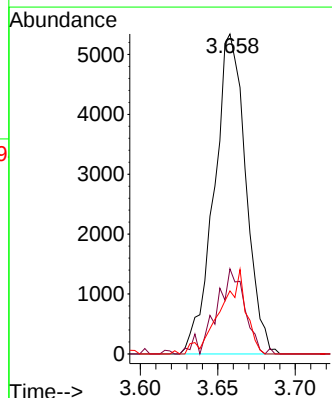
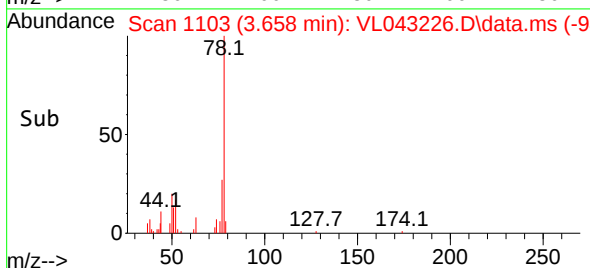
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

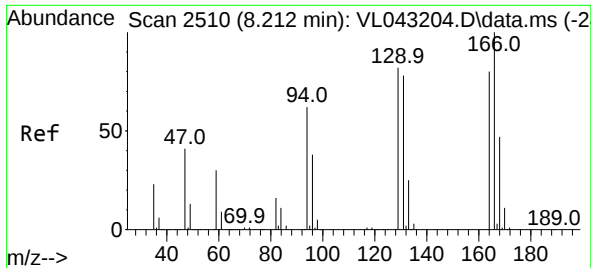


#36
Benzene
Concen: 0.302 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.010 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37



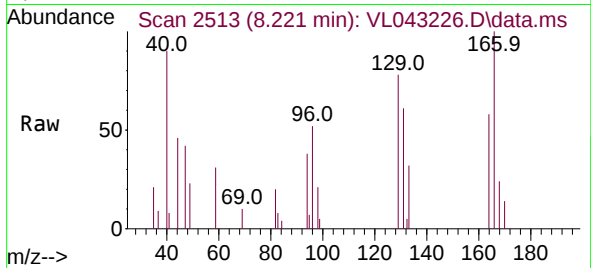
Tgt Ion: 78 Resp: 7571
Ion Ratio Lower Upper
78 100
77 26.6 17.5 26.3
50 19.7 15.5 23.3





#52
Tetrachloroethene
Concen: 0.111 ppbv m
RT: 8.221 min Scan# 2510
Delta R.T. 0.010 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

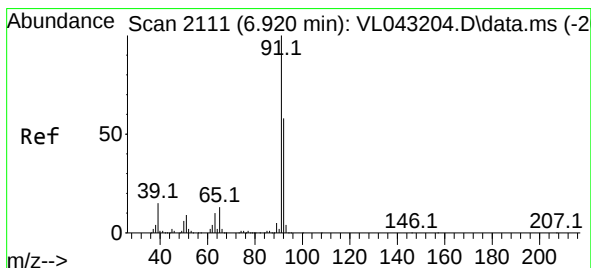
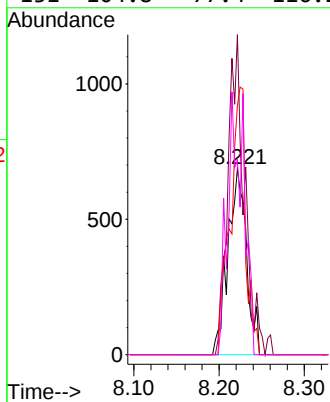
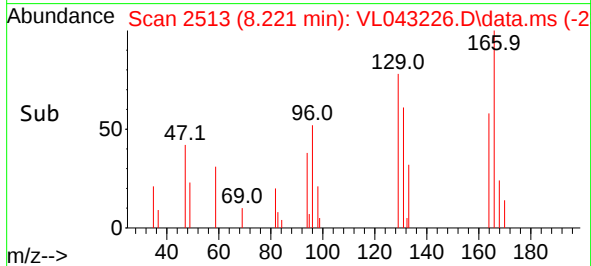
Instrument :
MSVOA_L
ClientSampleId :
SV2



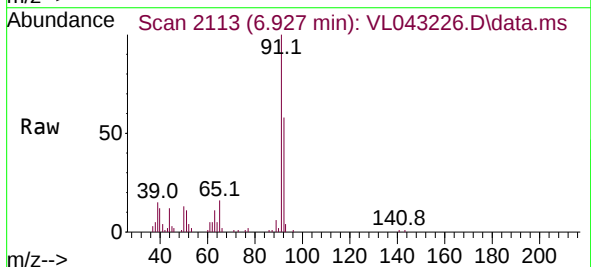
Tgt Ion:164 Resp: 1036
Ion Ratio Lower Upper
164 100
166 172.3 99.4 149.2
129 134.1 81.8 122.8
131 104.8 77.4 116.2

Manual Integrations
APPROVED

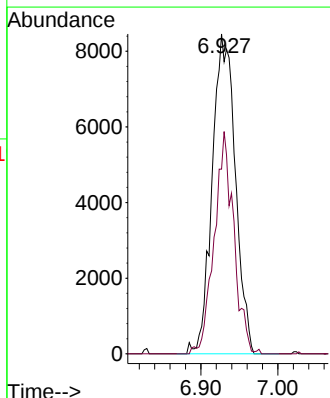
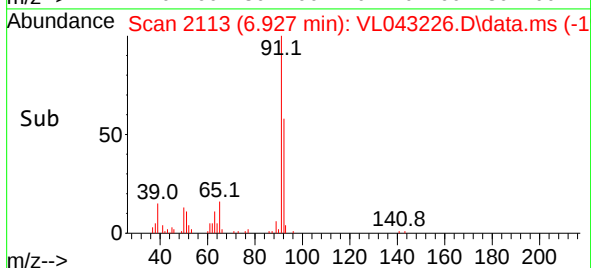
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

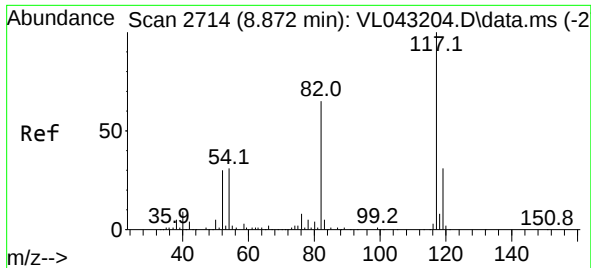


#53
Toluene
Concen: 0.593 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37



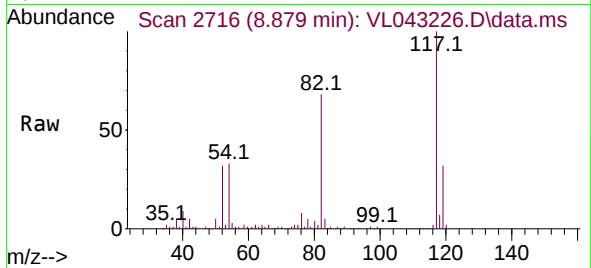
Tgt Ion: 91 Resp: 17606
Ion Ratio Lower Upper
91 100
92 58.9 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

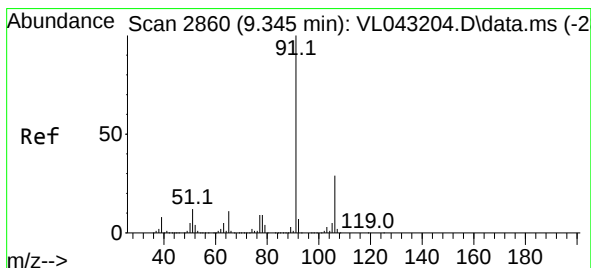
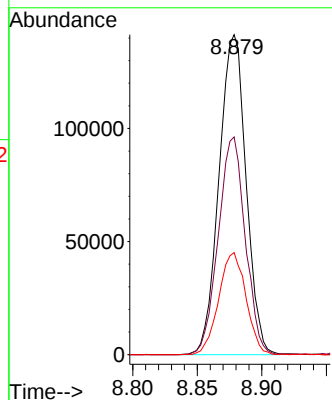
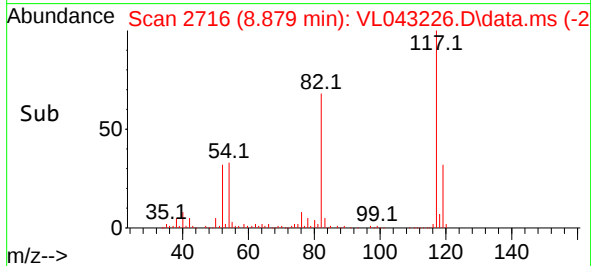
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:117 Resp: 206328
Ion Ratio Lower Upper
117 100
82 68.1 56.1 84.1
119 32.2 25.0 37.6

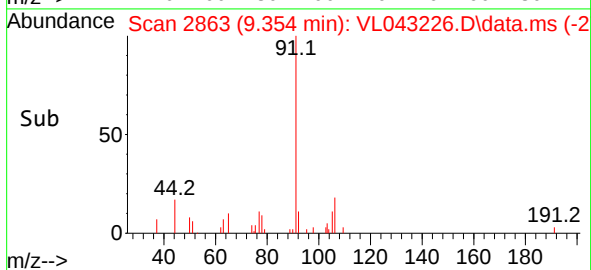
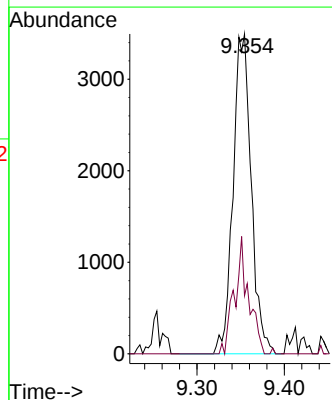
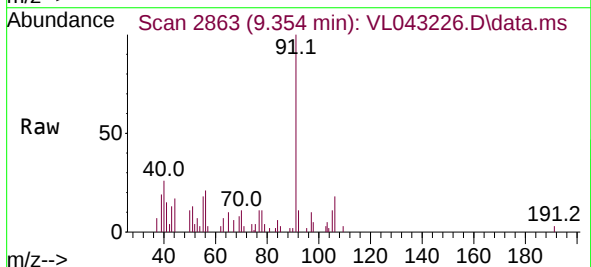
Manual Integrations
APPROVED

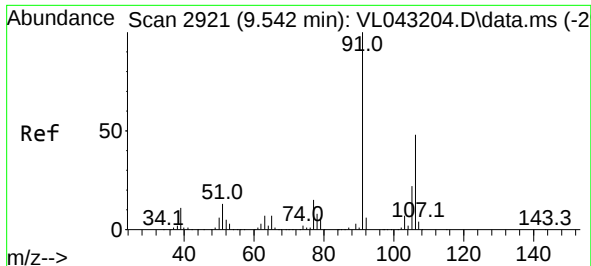
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#58
Ethyl Benzene
Concen: 0.127 ppbv m
RT: 9.354 min Scan# 2863
Delta R.T. 0.010 min
Lab File: VL043226.D
Acq: 18 Nov 2025 22:37

Tgt Ion: 91 Resp: 5050
Ion Ratio Lower Upper
91 100
106 18.2 22.8 34.2#





#59

m/p-Xylene

Concen: 0.373 ppbv m

RT: 9.526 min Scan# 29

Delta R.T. -0.016 min

Lab File: VL043226.D

Acq: 18 Nov 2025 22:37

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 91 Resp: 11875

Ion Ratio Lower Upper

91 100

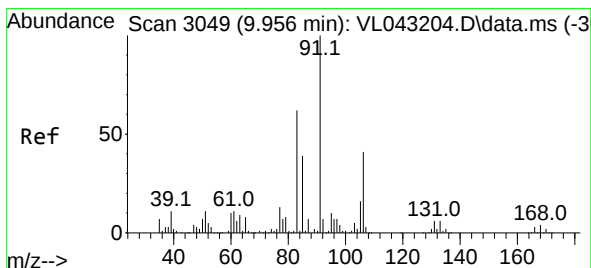
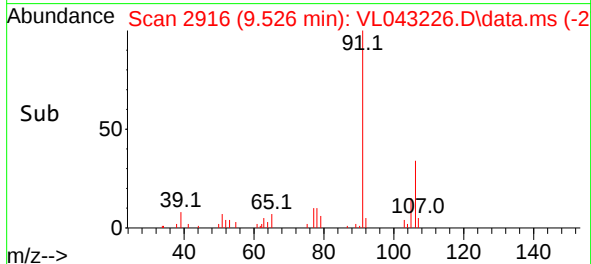
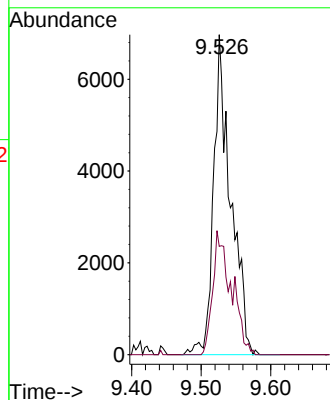
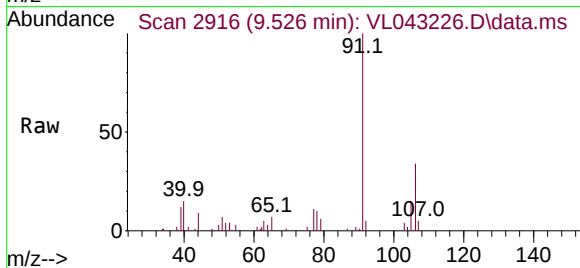
106 0.0 36.1 54.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#60

o-Xylene

Concen: 0.147 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. 0.003 min

Lab File: VL043226.D

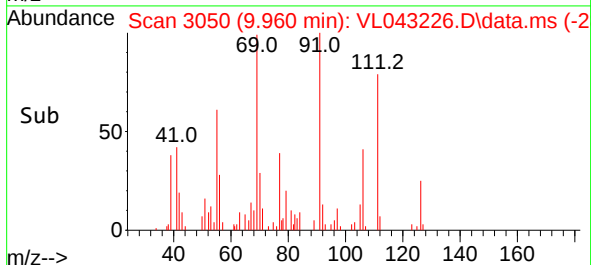
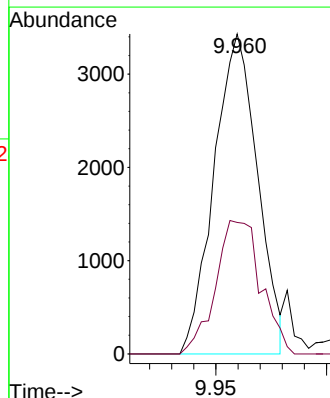
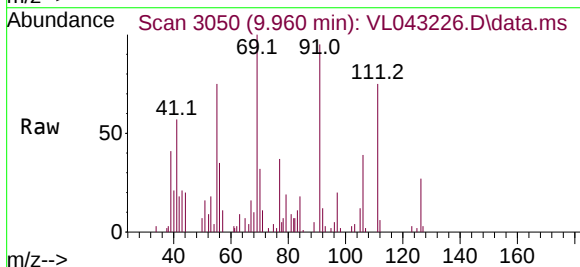
Acq: 18 Nov 2025 22:37

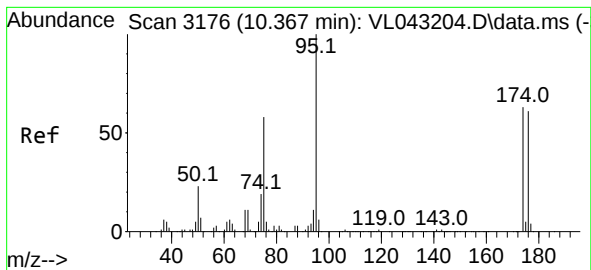
Tgt Ion: 91 Resp: 4685

Ion Ratio Lower Upper

91 100

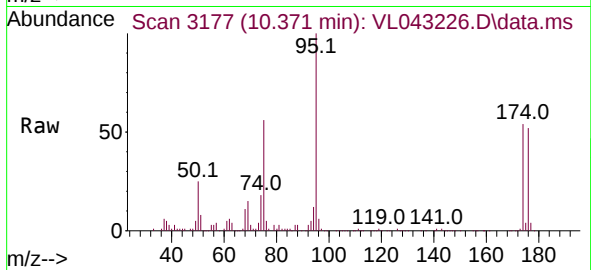
106 43.5 20.9 62.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.435 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.003 min
 Lab File: VL043226.D
 Acq: 18 Nov 2025 22:37

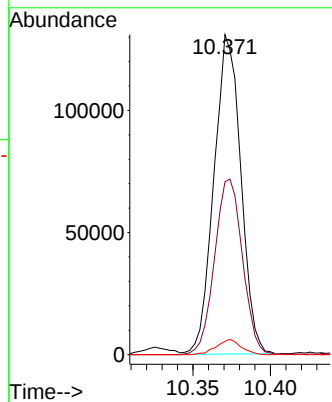
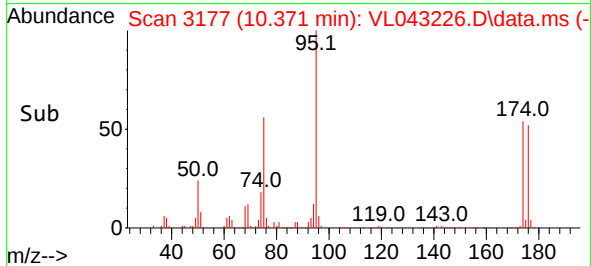
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion: 95 Resp: 157815
 Ion Ratio Lower Upper
 95 100
 174 57.1 50.2 75.2
 175 4.4 4.1 6.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



Report of Analysis

Client: GFE LLC
Project: 470 TO 472 WESTBURY AVE
Client Sample ID: IA1
Lab Sample ID: Q3650-03
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3650
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/18/25 18:15	VL111825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/18/25 18:15	VL111825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/18/25 18:15	VL111825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/18/25 18:15	VL111825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/18/25 18:15	VL111825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/18/25 18:15	VL111825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/18/25 18:15	VL111825
71-43-2	Benzene	0.080	0.26	U	1	0.26	1.60	11/18/25 18:15	VL111825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/18/25 18:15	VL111825
108-88-3	Toluene	0.49	1.85	J	1	0.60	1.88	11/18/25 18:15	VL111825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/18/25 18:15	VL111825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/18/25 18:15	VL111825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/18/25 18:15	VL111825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/18/25 18:15	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 18:15	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 18:15	VL111825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/18/25 18:15	VL111825
110-54-3	Hexane	0.19	0.67	J	1	0.56	1.76	11/18/25 18:15	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.4		65 - 135	104%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	98200
540-36-3	1,4-Difluorobenzene	260000
3114-55-4	Chlorobenzene-d5	203000

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\VL111825\
 Data File : VL043218.D
 Acq On : 18 Nov 2025 18:15
 Operator : SY/MD
 Sample : Q3650-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:38:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	98200	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	259525	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	203499	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	154823	10.379	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	5572	0.402	ppbv	99
3) Chlorodifluoromethane	1.476	51	2927m	0.215	ppbv	
4) Chloromethane	1.531	50	2438	0.471	ppbv	98
9) Propene	1.489	41	4038	0.698	ppbv #	86
11) Trichlorofluoromethane	1.877	101	2694	0.201	ppbv	87
13) Ethanol	1.722	45	89190	43.851	ppbv	99
15) Acetone	1.835	43	695771	50.997	ppbv	100
19) Isopropyl Alcohol	1.884	45	73444	9.527	ppbv #	1
20) Methylene Chloride	2.062	84	4770	0.436	ppbv #	89
26) Hexane	2.826	57	2400	0.186	ppbv #	12
34) 2-Butanone	2.557	43	4492	0.245	ppbv	98
35) Carbon Tetrachloride	3.758	117	1348m	0.068	ppbv	
43) Methyl Methacrylate	4.878	69	6969m	0.528	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	4267m	0.100	ppbv	
53) Toluene	6.923	91	14272	0.485	ppbv	94
59) m/p-Xylene	9.529	91	6905m	0.220	ppbv	

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

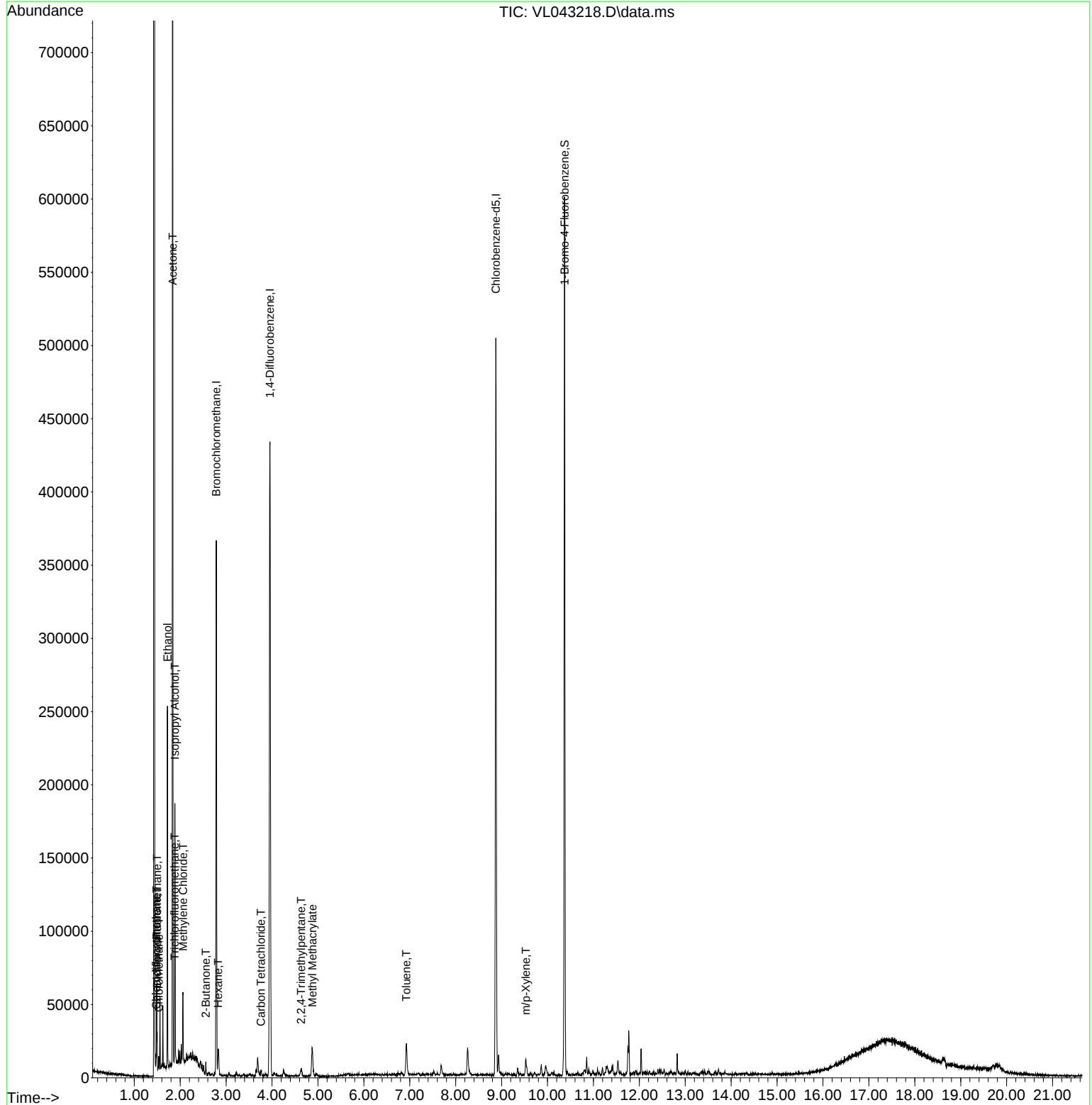
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043218.D
Acq On : 18 Nov 2025 18:15
Operator : SY/MD
Sample : Q3650-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

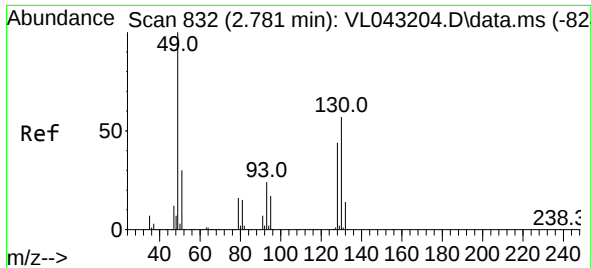
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Nov 19 01:38:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

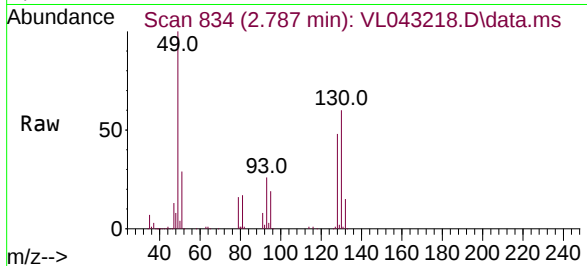
Reviewed By : Semsettin Yesilyurt 11/19/2025
Supervised By : Mahesh Dadoda 11/19/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

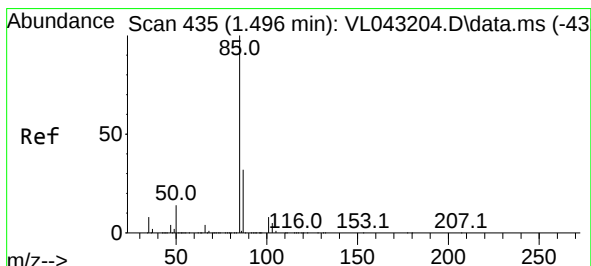
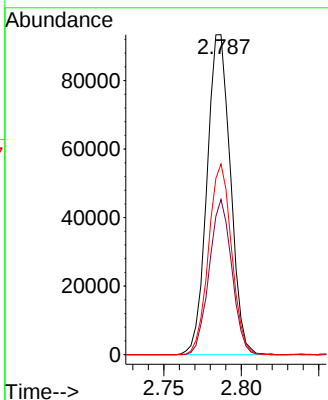
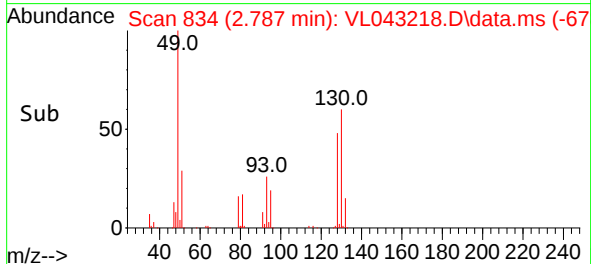
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 98200
Ion Ratio Lower Upper
49 100
128 46.6 23.0 69.0
130 58.6 29.9 89.7

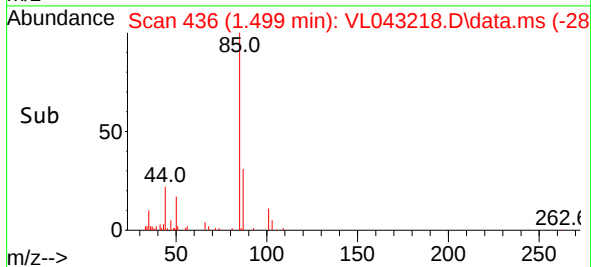
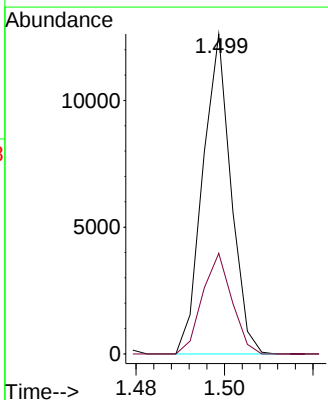
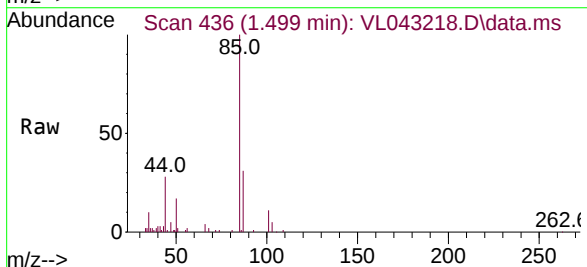
Manual Integrations
APPROVED

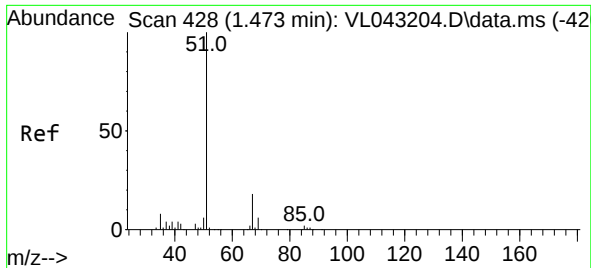
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.402 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

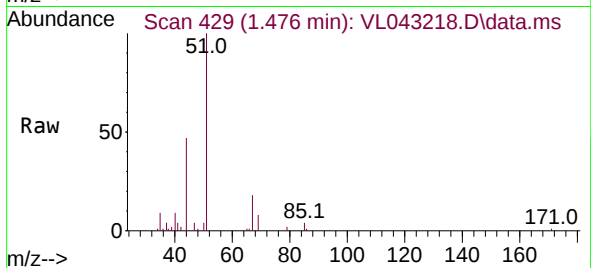
Tgt Ion: 85 Resp: 5572
Ion Ratio Lower Upper
85 100
87 31.4 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.215 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

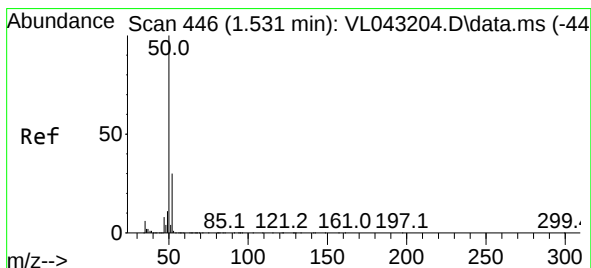
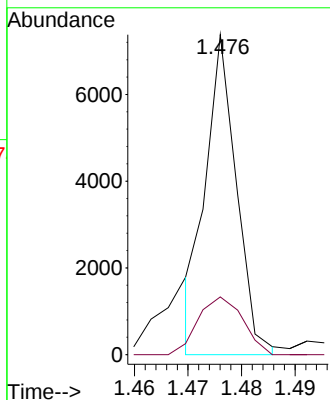
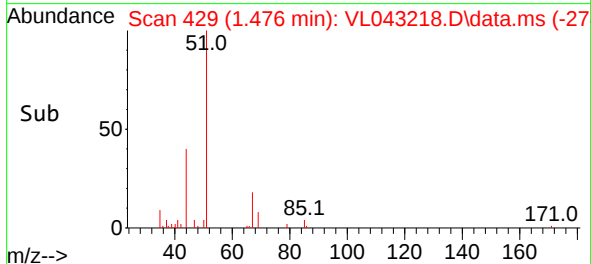
Instrument :
MSVOA_L
ClientSampleId :
IA1



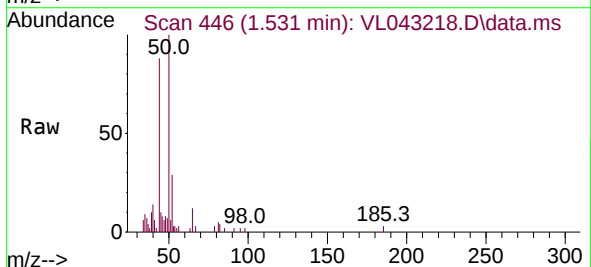
Tgt Ion: 51 Resp: 2927
Ion Ratio Lower Upper
51 100
67 26.4 14.9 22.3

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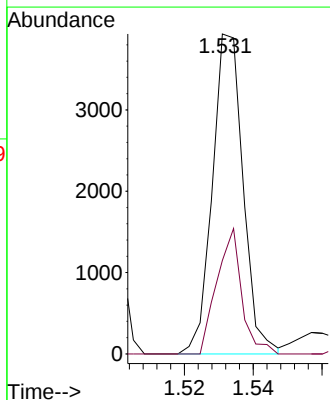
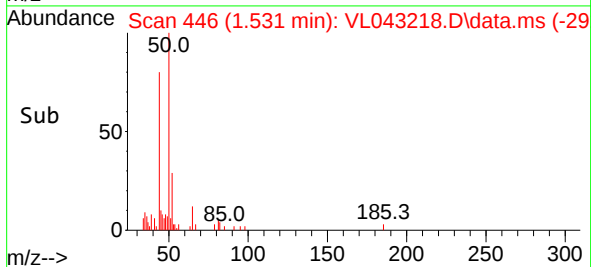
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

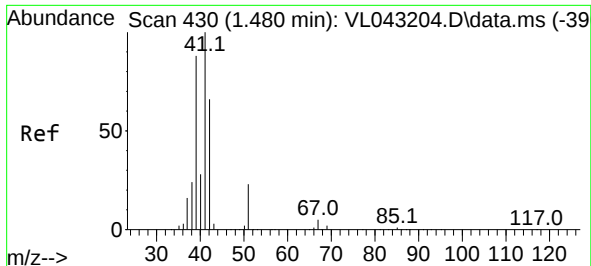


#4
Chloromethane
Concen: 0.471 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15



Tgt Ion: 50 Resp: 2438
Ion Ratio Lower Upper
50 100
52 29.2 24.1 36.1





#9

Propene

Concen: 0.698 ppbv

RT: 1.489 min Scan# 430

Delta R.T. 0.009 min

Lab File: VL043218.D

Acq: 18 Nov 2025 18:15

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 4038

Ion Ratio Lower Upper

41 100

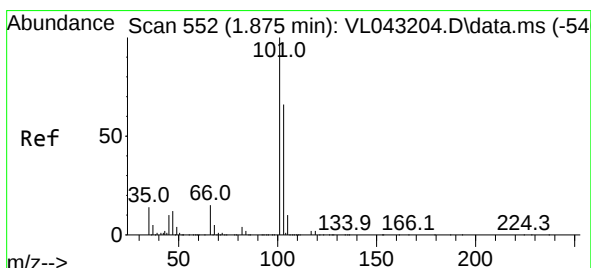
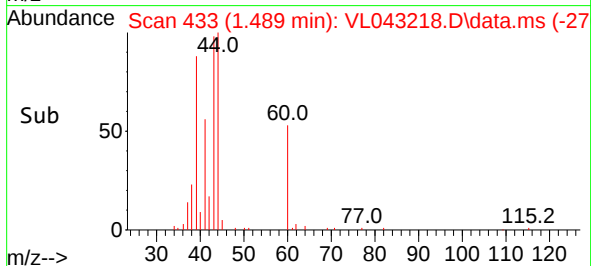
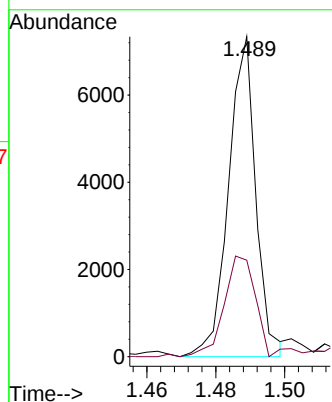
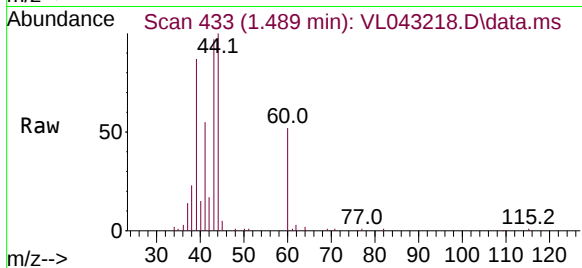
42 0.0 3.7 5.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025

Supervised By :Mahesh Dadoda 11/19/2025



#11

Trichlorofluoromethane

Concen: 0.201 ppbv

RT: 1.877 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL043218.D

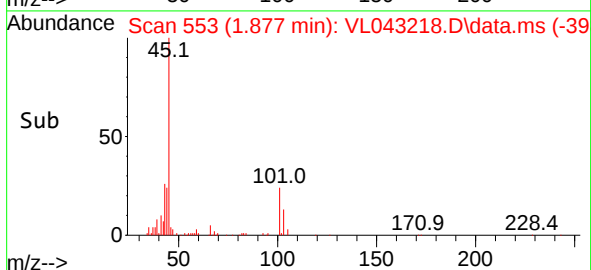
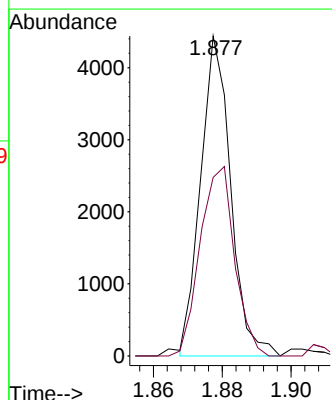
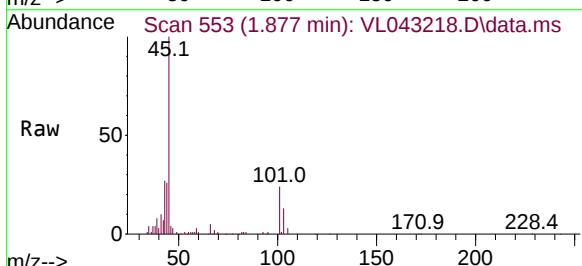
Acq: 18 Nov 2025 18:15

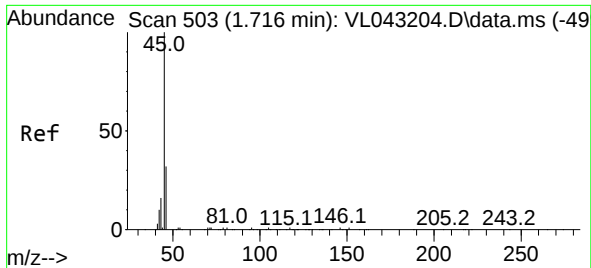
Tgt Ion:101 Resp: 2694

Ion Ratio Lower Upper

101 100

103 55.8 52.6 79.0





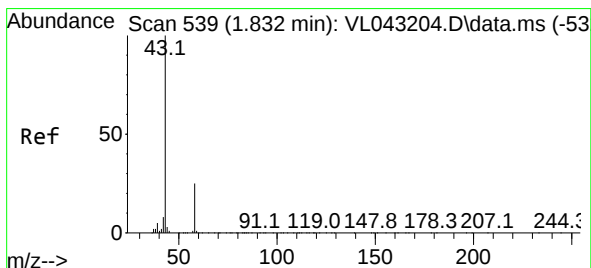
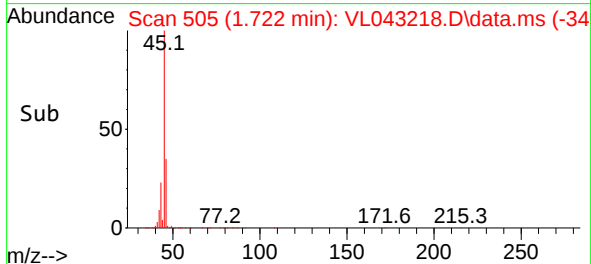
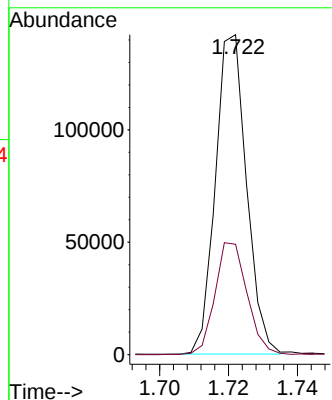
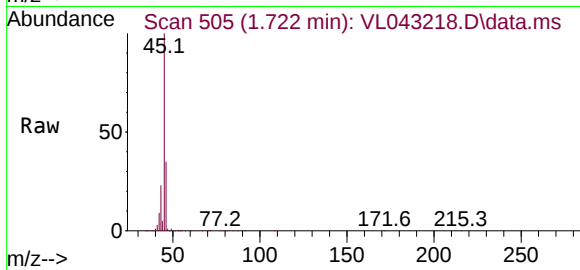
#13
Ethanol
Concen: 43.851 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 89190
Ion Ratio Lower Upper
45 100
46 36.5 15.0 59.8

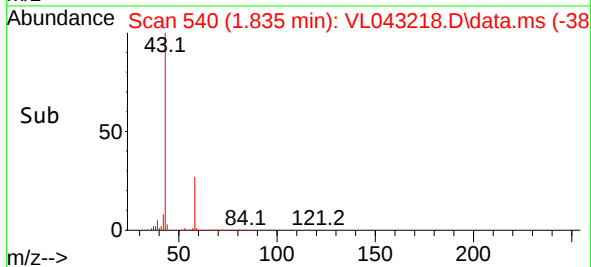
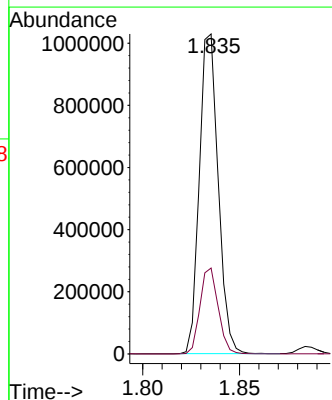
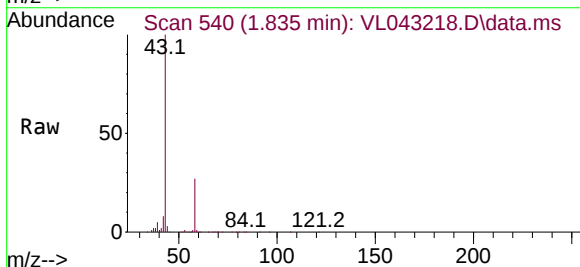
Manual Integrations
APPROVED

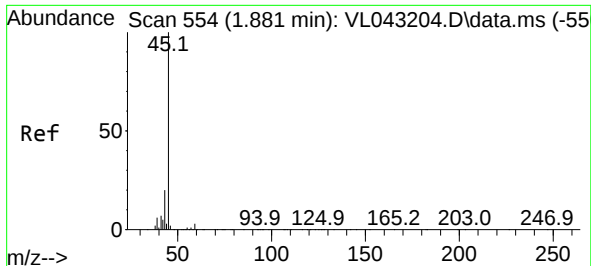
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 50.997 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

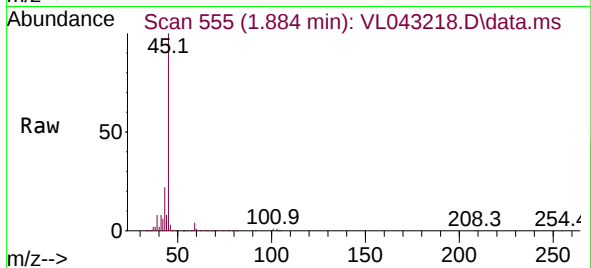
Tgt Ion: 43 Resp: 695771
Ion Ratio Lower Upper
43 100
58 25.9 20.7 31.1





#19
Isopropyl Alcohol
Concen: 9.527 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

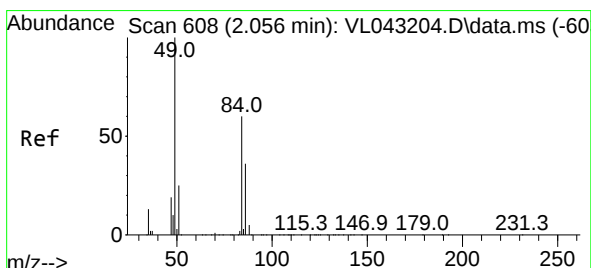
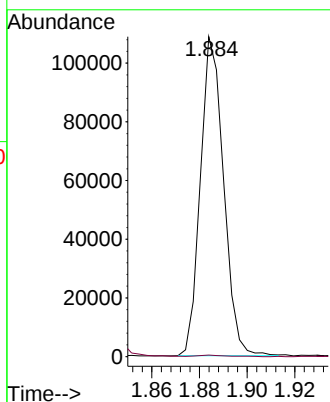
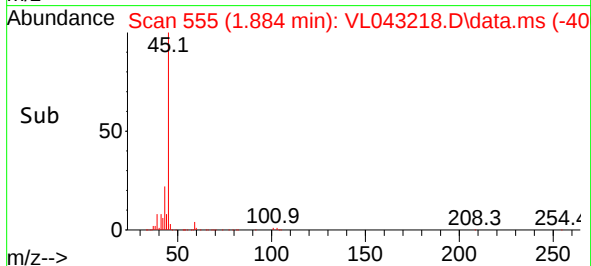
Instrument :
MSVOA_L
ClientSampleId :
IA1



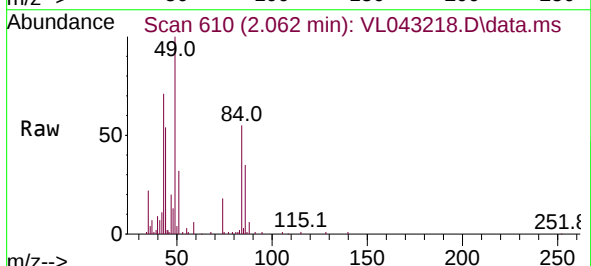
Tgt Ion: 45 Resp: 7344
Ion Ratio Lower Upper
45 100
58 245.2 31.3 46.9

Manual Integrations
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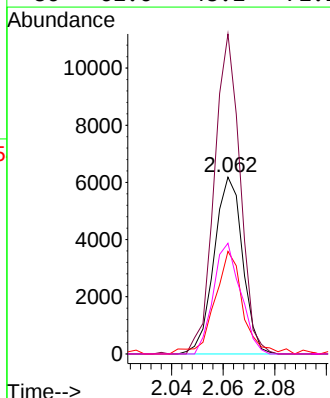
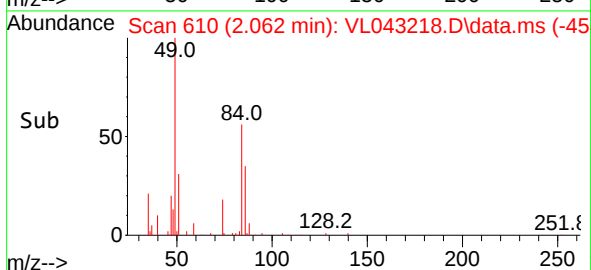
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

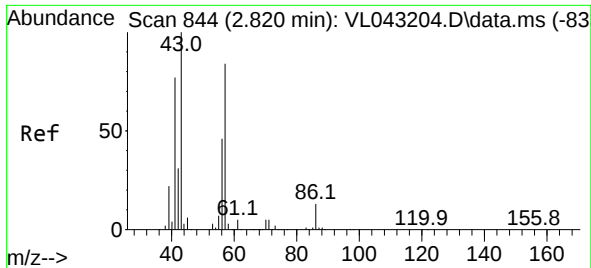


#20
Methylene Chloride
Concen: 0.436 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15



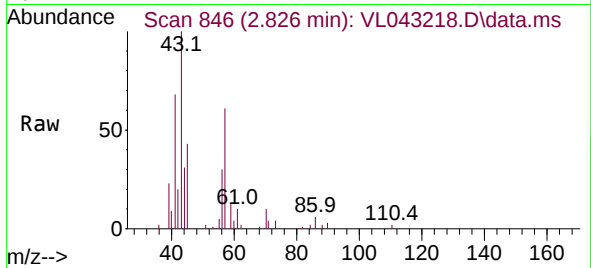
Tgt Ion: 84 Resp: 4770
Ion Ratio Lower Upper
84 100
49 181.1 132.9 199.3
51 56.7 34.8 52.2#
86 62.6 48.2 72.2





#26
Hexane
Concen: 0.186 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

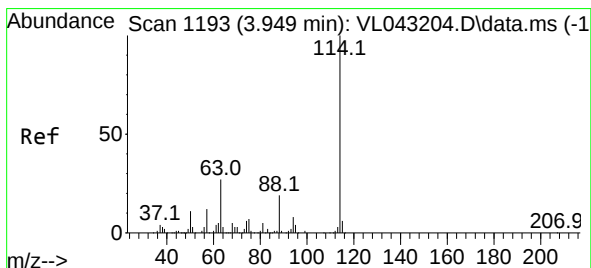
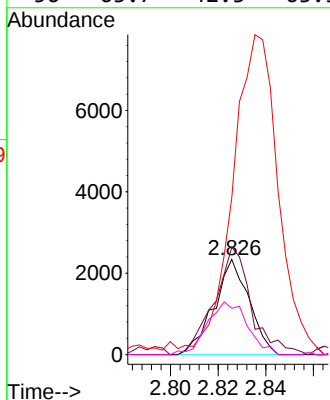
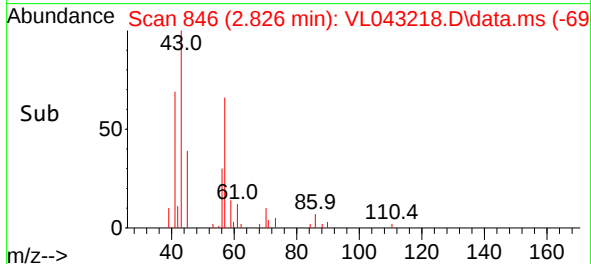
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 2400
Ion Ratio Lower Upper
57 100
41 124.7 74.6 111.8
43 431.2 179.0 268.4
56 63.7 42.3 63.5

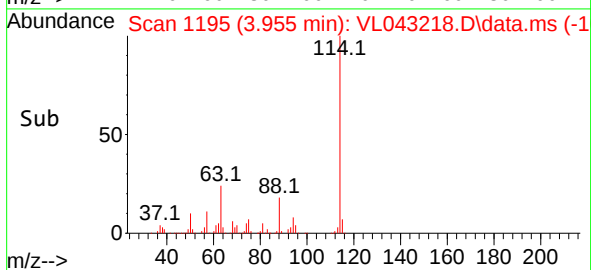
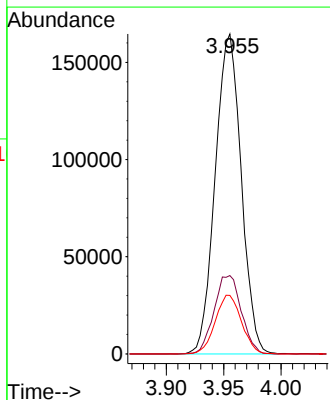
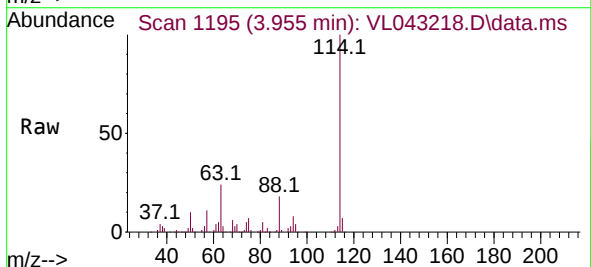
Manual Integrations
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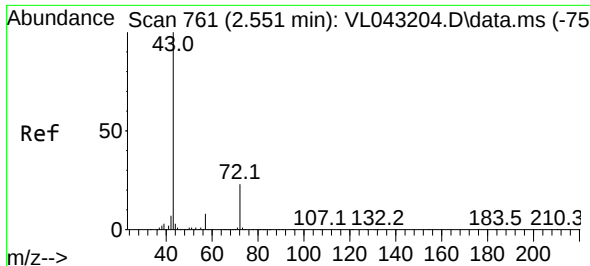
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

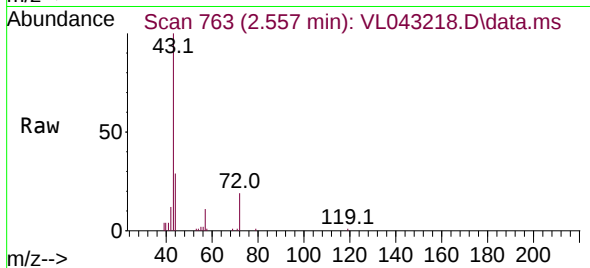
Tgt Ion:114 Resp: 259525
Ion Ratio Lower Upper
114 100
63 25.6 21.0 31.6
88 18.5 14.9 22.3





#34
2-Butanone
Concen: 0.245 ppbv
RT: 2.557 min Scan# 761
Delta R.T. 0.006 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

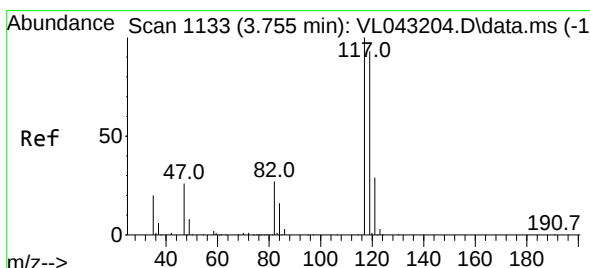
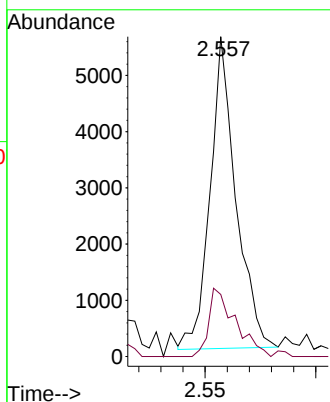
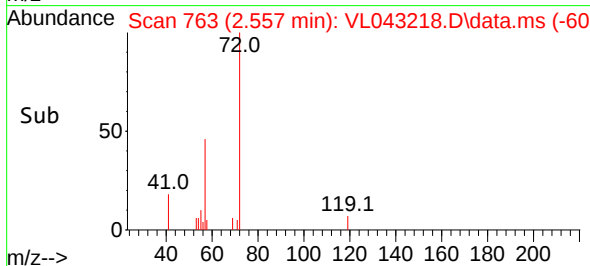
Instrument :
MSVOA_L
Client Sample Id :
IA1



Tgt Ion: 43 Resp: 4492
Ion Ratio Lower Upper
43 100
72 23.4 18.1 27.1

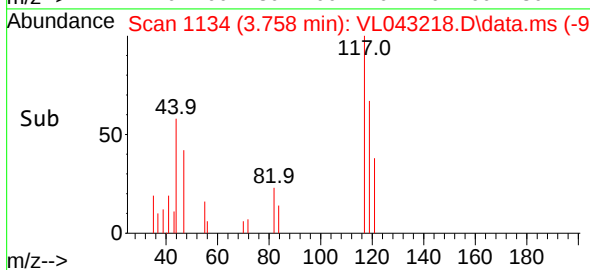
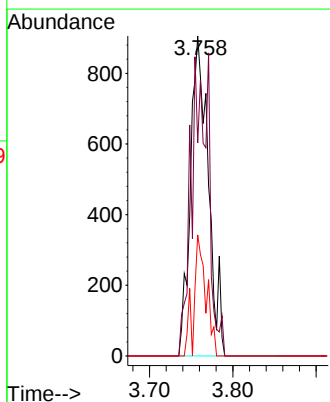
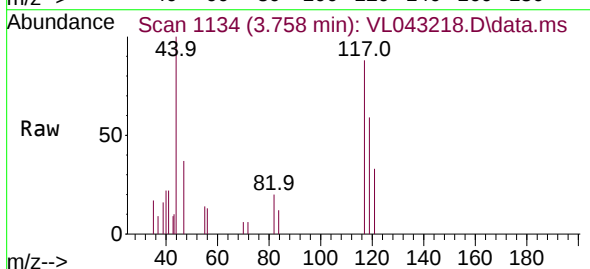
Manual Integrations
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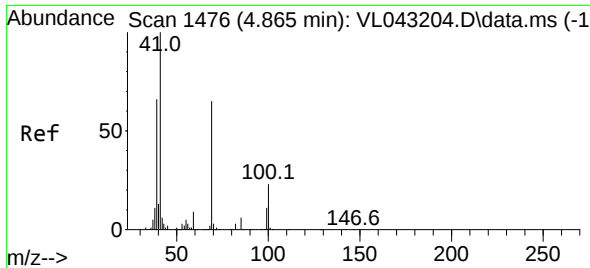
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Tgt Ion:117 Resp: 1348
Ion Ratio Lower Upper
117 100
119 66.6 74.6 112.0#
121 37.9 23.2 34.8#





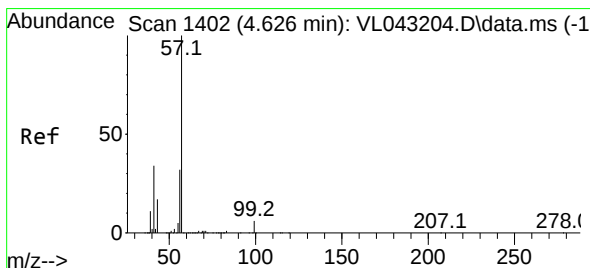
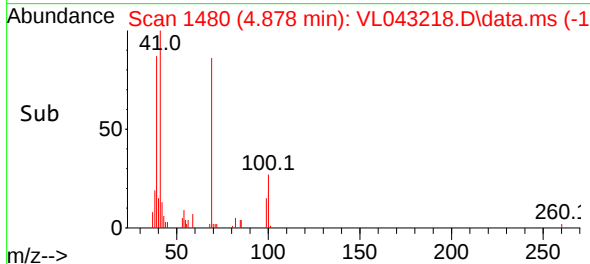
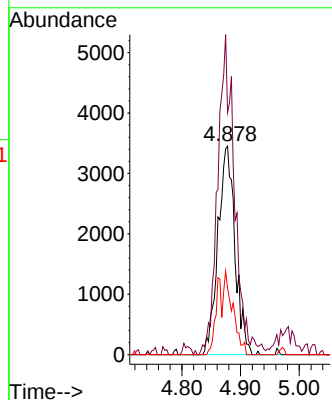
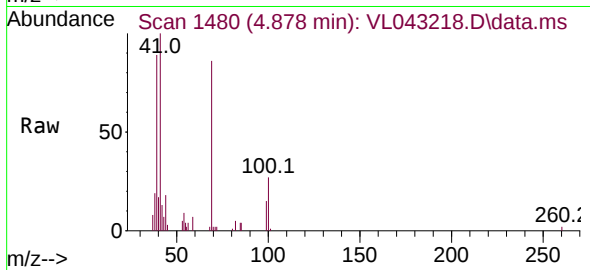
#43
Methyl Methacrylate
Concen: 0.528 ppbv m
RT: 4.878 min Scan# 1476
Delta R.T. 0.013 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 69 Resp: 6969
Ion Ratio Lower Upper
69 100
41 151.9 126.7 190.1
100 35.3 28.6 43.0

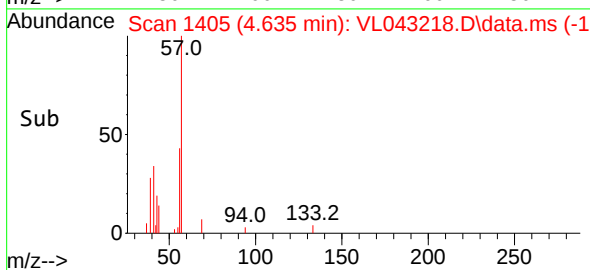
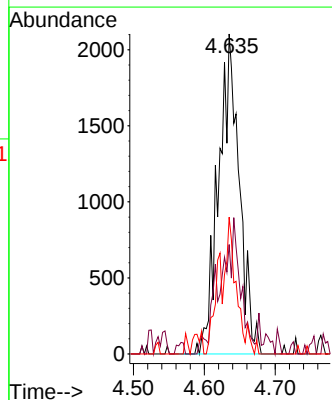
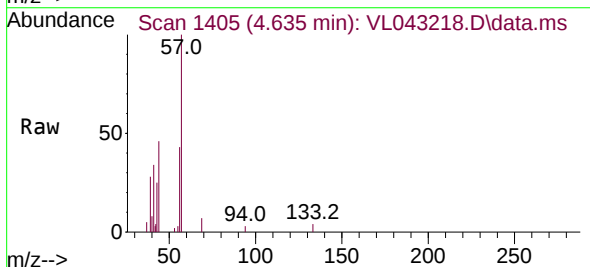
Manual Integrations
APPROVED

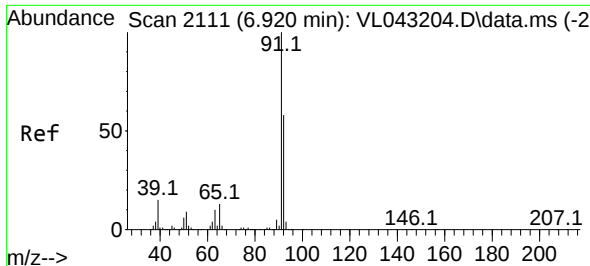
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv m
RT: 4.635 min Scan# 1405
Delta R.T. 0.009 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Tgt Ion: 57 Resp: 4267
Ion Ratio Lower Upper
57 100
41 0.0 28.0 42.0#
56 0.0 25.6 38.4#





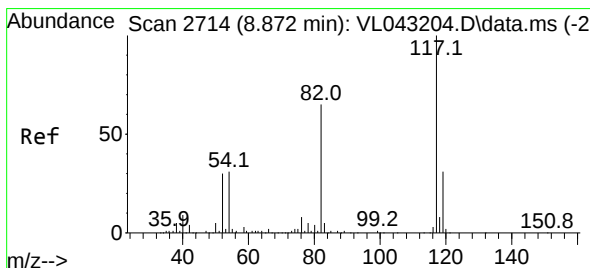
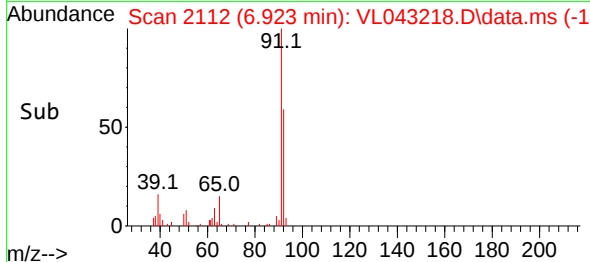
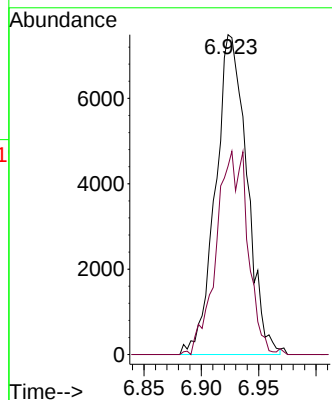
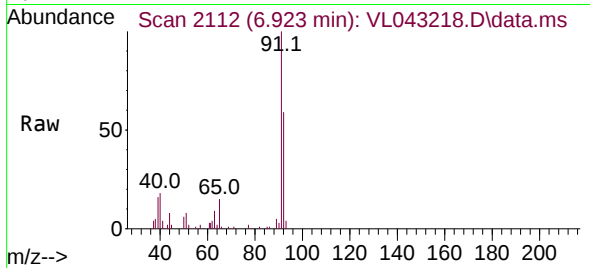
#53
Toluene
Concen: 0.485 ppbv
RT: 6.923 min Scan# 2111
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 14272
Ion Ratio Lower Upper
91 100
92 64.1 47.4 71.0

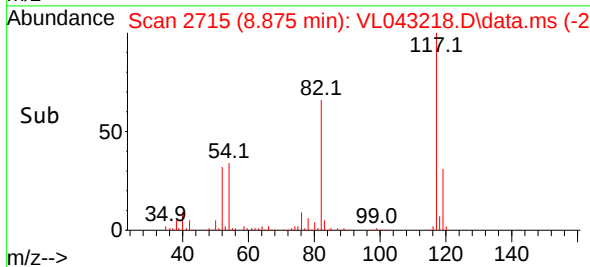
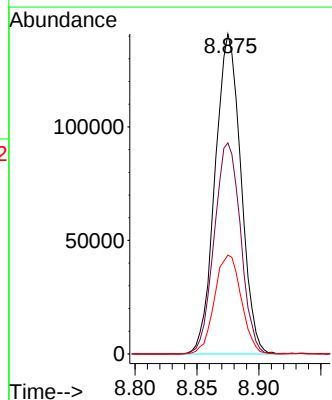
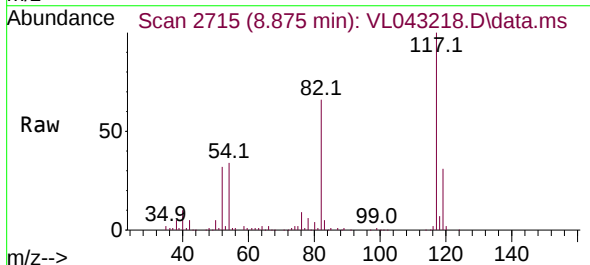
Manual Integrations
APPROVED

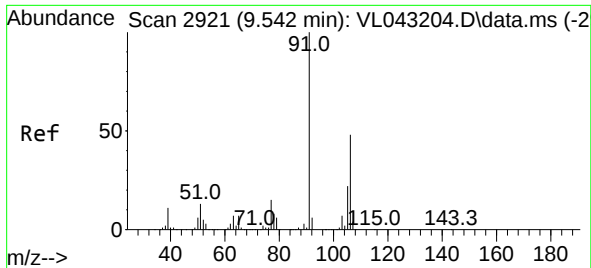
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Tgt Ion:117 Resp: 203499
Ion Ratio Lower Upper
117 100
82 67.4 56.1 84.1
119 32.2 25.0 37.6





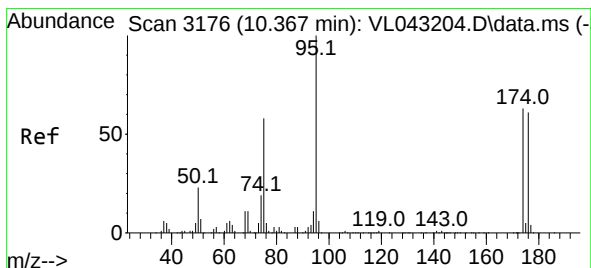
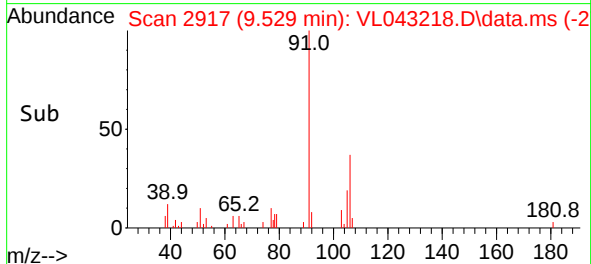
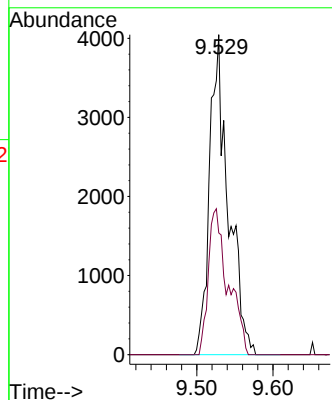
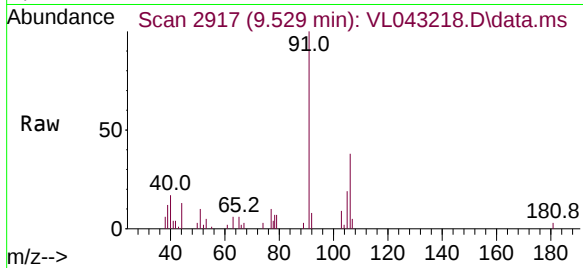
#59
m/p-Xylene
Concen: 0.220 ppbv m
RT: 9.529 min Scan# 2921
Delta R.T. -0.013 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 6905
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1

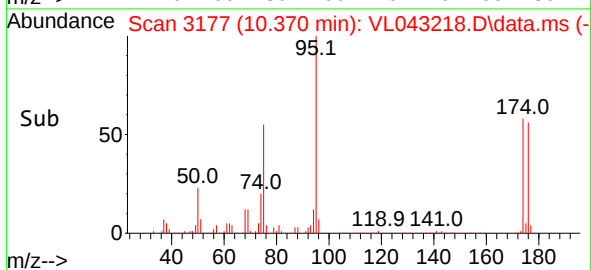
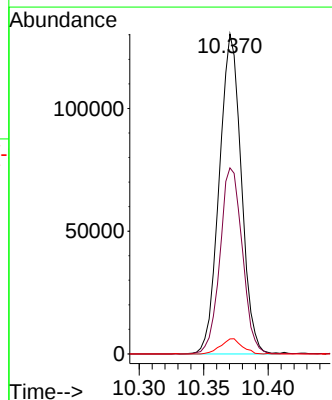
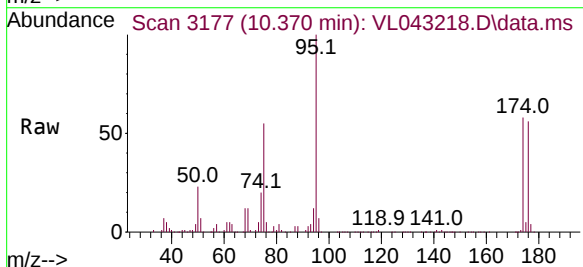
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.379 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043218.D
Acq: 18 Nov 2025 18:15

Tgt Ion: 95 Resp: 154823
Ion Ratio Lower Upper
95 100
174 59.1 50.2 75.2
175 4.6 4.1 6.1



Report of Analysis

Client: GFE LLC
Project: 470 TO 472 WESTBURY AVE
Client Sample ID: IA2
Lab Sample ID: Q3650-04
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3650
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/18/25 18:49	VL111825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/18/25 18:49	VL111825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/18/25 18:49	VL111825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/18/25 18:49	VL111825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/18/25 18:49	VL111825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/18/25 18:49	VL111825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/18/25 18:49	VL111825
71-43-2	Benzene	0.10	0.32	J	1	0.26	1.60	11/18/25 18:49	VL111825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/18/25 18:49	VL111825
108-88-3	Toluene	0.40	1.51	J	1	0.60	1.88	11/18/25 18:49	VL111825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/18/25 18:49	VL111825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/18/25 18:49	VL111825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/18/25 18:49	VL111825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/18/25 18:49	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 18:49	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 18:49	VL111825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/18/25 18:49	VL111825
110-54-3	Hexane	0.47	1.66	J	1	0.56	1.76	11/18/25 18:49	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.3		65 - 135	103%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	96500
540-36-3	1,4-Difluorobenzene	254000
3114-55-4	Chlorobenzene-d5	198000

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\VL111825\
 Data File : VL043219.D
 Acq On : 18 Nov 2025 18:49
 Operator : SY/MD
 Sample : Q3650-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:38:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	96487	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	253507	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	197811	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	148639	10.251	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	6241	0.459	ppbv	94
3) Chlorodifluoromethane	1.476	51	3315m	0.248	ppbv	
4) Chloromethane	1.534	50	2395	0.471	ppbv #	87
9) Propene	1.489	41	4862	0.856	ppbv #	1
11) Trichlorofluoromethane	1.881	101	2849m	0.216	ppbv	
13) Ethanol	1.722	45	22426	11.222	ppbv	94
15) Acetone	1.835	43	390504	29.131	ppbv	99
19) Isopropyl Alcohol	1.887	45	23947	3.161	ppbv #	1
20) Methylene Chloride	2.065	84	6139	0.835	ppbv #	92
26) Hexane	2.829	57	5923	0.467	ppbv #	64
34) 2-Butanone	2.560	43	5222	0.292	ppbv	93
35) Carbon Tetrachloride	3.761	117	1420m	0.074	ppbv	
36) Benzene	3.658	78	2456m	0.101	ppbv	
43) Methyl Methacrylate	4.881	69	3475m	0.270	ppbv	
53) Toluene	6.930	91	11489m	0.400	ppbv	
59) m/p-Xylene	9.529	91	7287m	0.239	ppbv	
61) Styrene	9.872	104	1495m	0.112	ppbv	

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

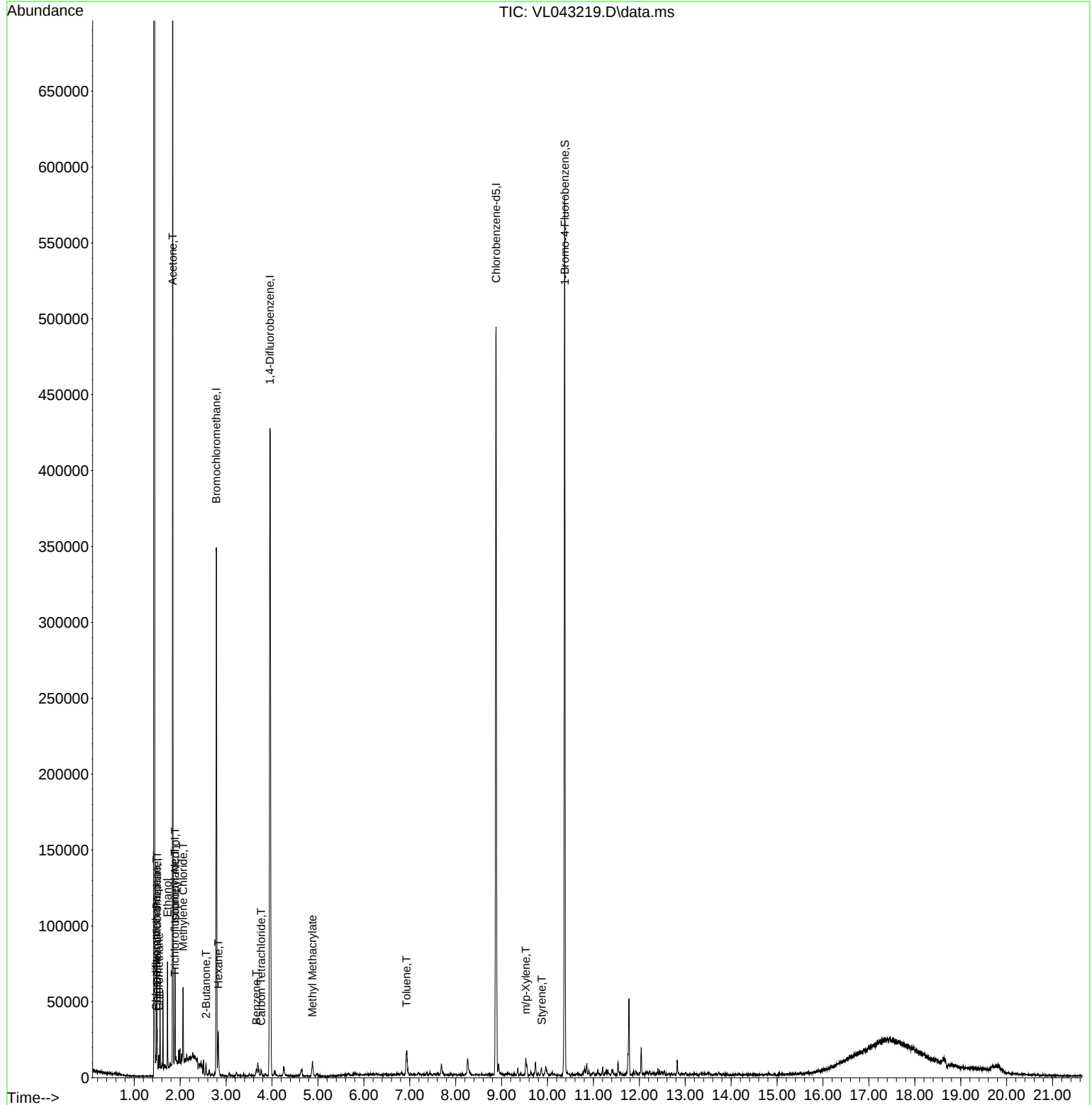
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043219.D
Acq On : 18 Nov 2025 18:49
Operator : SY/MD
Sample : Q3650-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

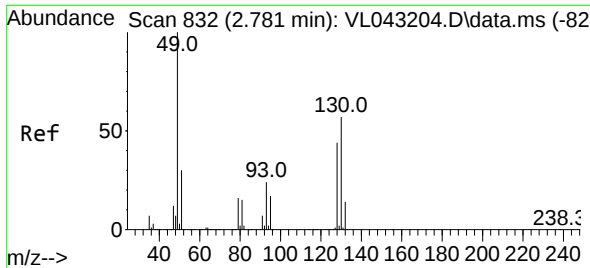
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Nov 19 01:38:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025





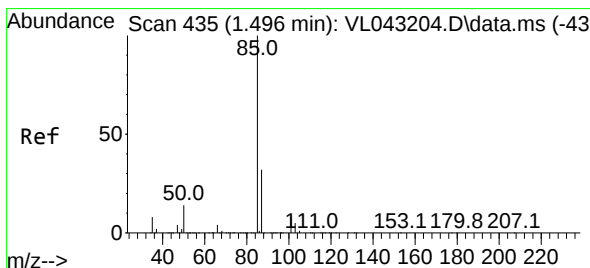
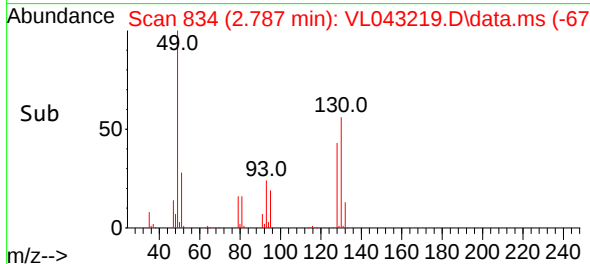
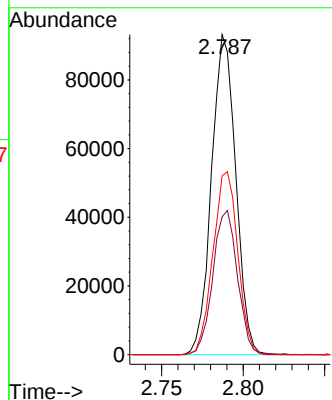
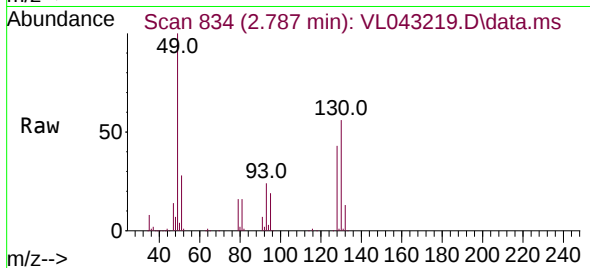
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 49 Resp: 9648
Ion Ratio Lower Upper
49 100
128 45.5 23.0 69.0
130 58.5 29.9 89.7

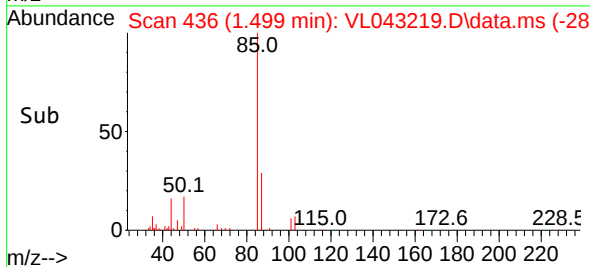
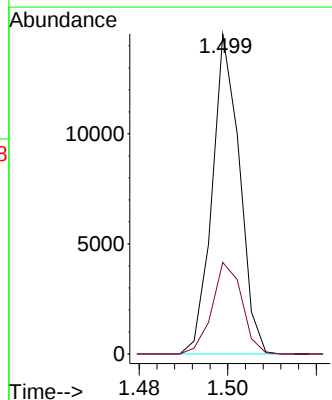
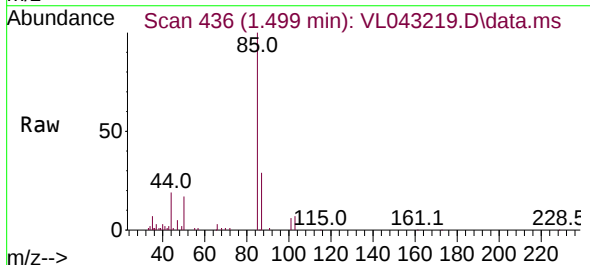
Manual Integrations
APPROVED

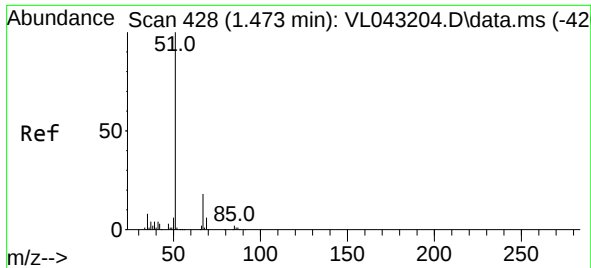
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#2
Dichlorodifluoromethane
Concen: 0.459 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

Tgt Ion: 85 Resp: 6241
Ion Ratio Lower Upper
85 100
87 28.6 25.4 38.2





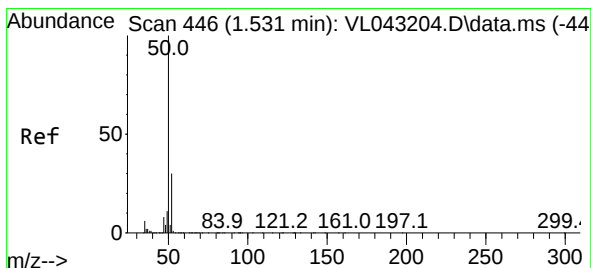
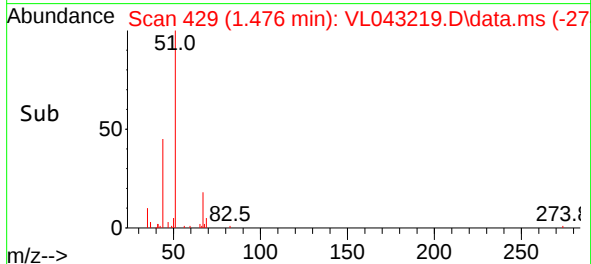
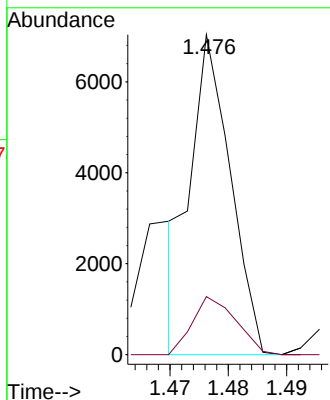
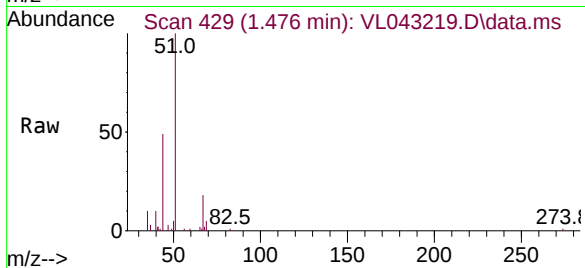
#3
Chlorodifluoromethane
Concen: 0.248 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 51 Resp: 3315
Ion Ratio Lower Upper
51 100
67 20.1 14.9 22.3

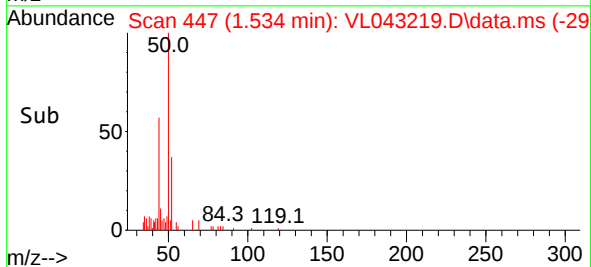
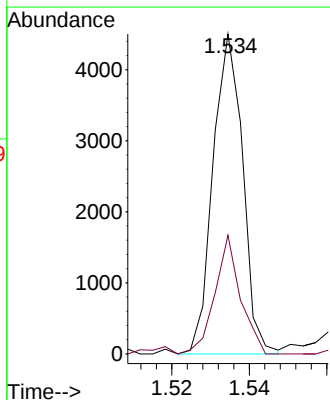
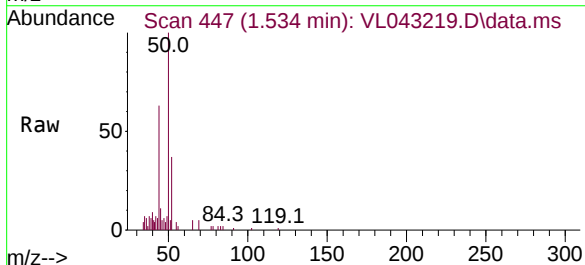
Manual Integrations
APPROVED

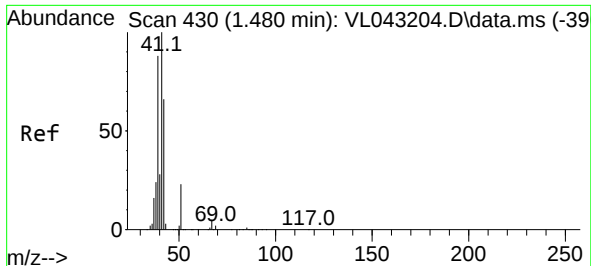
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 0.471 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

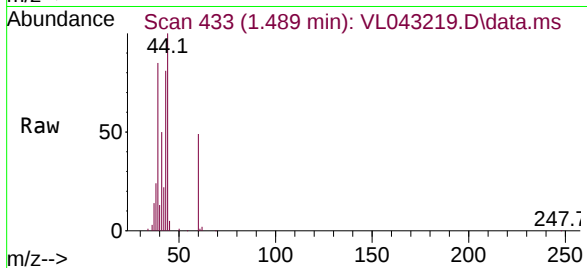
Tgt Ion: 50 Resp: 2395
Ion Ratio Lower Upper
50 100
52 37.1 24.1 36.1#





#9
 Propene
 Concen: 0.856 ppbv
 RT: 1.489 min Scan# 431
 Delta R.T. 0.010 min
 Lab File: VL043219.D
 Acq: 18 Nov 2025 18:49

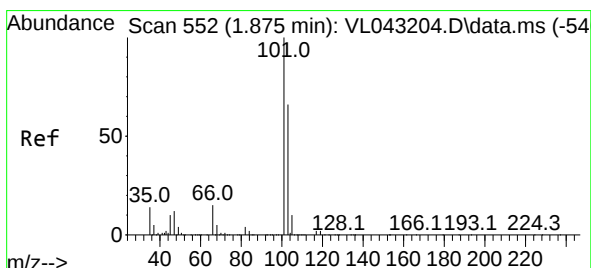
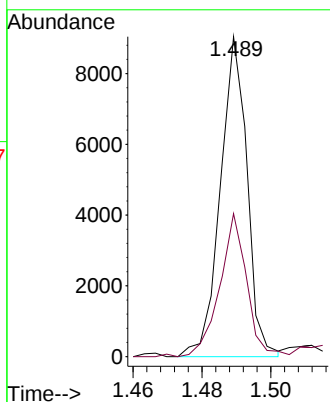
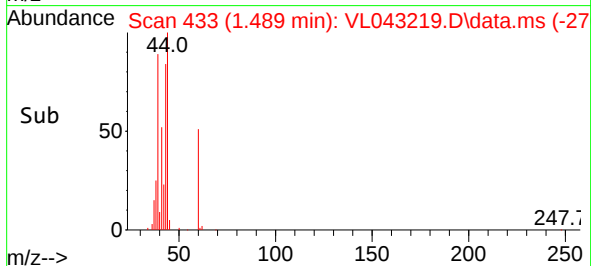
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



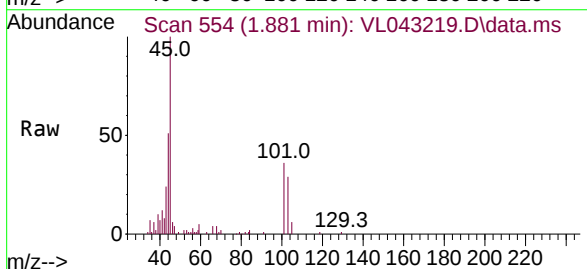
Tgt Ion: 41 Resp: 4862
 Ion Ratio Lower Upper
 41 100
 42 50.1 3.7 5.5

Manual Integrations
 APPROVED

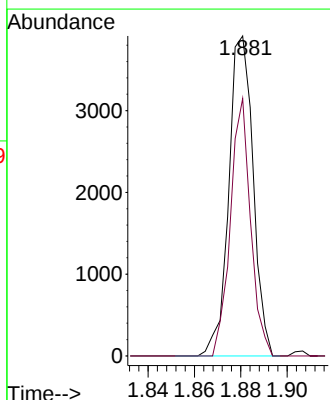
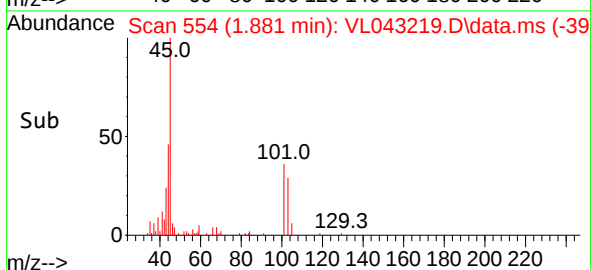
Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

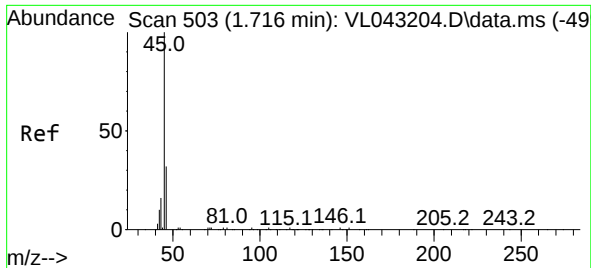


#11
 Trichlorofluoromethane
 Concen: 0.216 ppbv m
 RT: 1.881 min Scan# 554
 Delta R.T. 0.006 min
 Lab File: VL043219.D
 Acq: 18 Nov 2025 18:49



Tgt Ion:101 Resp: 2849
 Ion Ratio Lower Upper
 101 100
 103 80.4 52.6 79.0





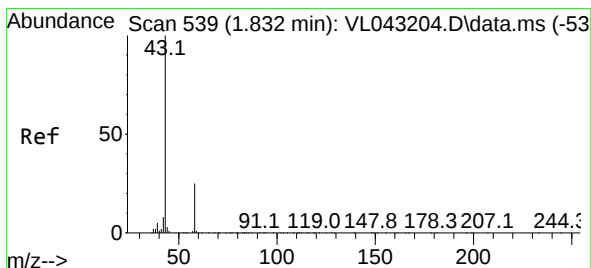
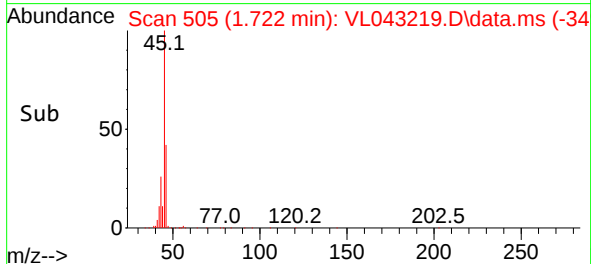
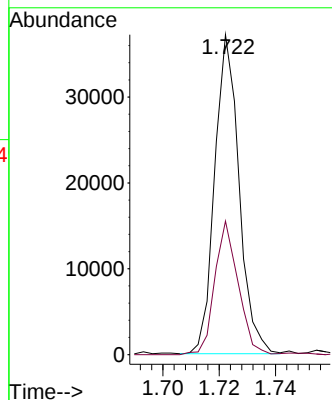
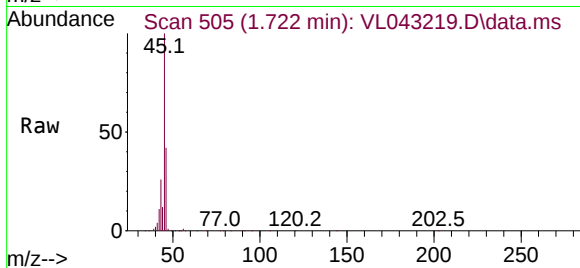
#13
Ethanol
Concen: 11.222 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 45 Resp: 22426
Ion Ratio Lower Upper
45 100
46 40.9 15.0 59.8

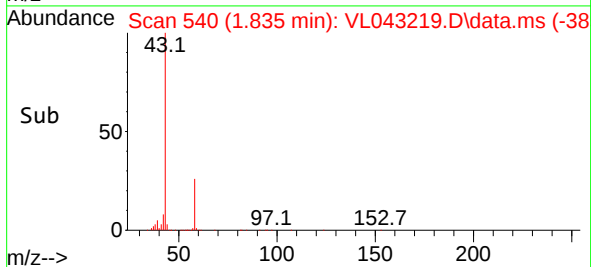
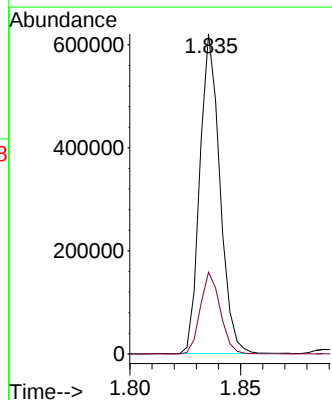
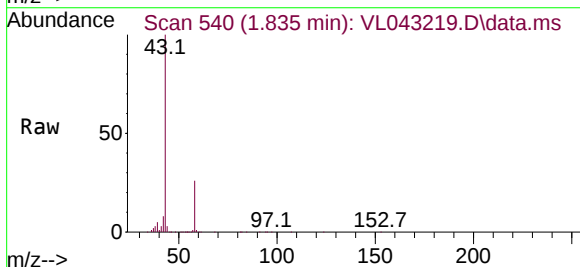
Manual Integrations
APPROVED

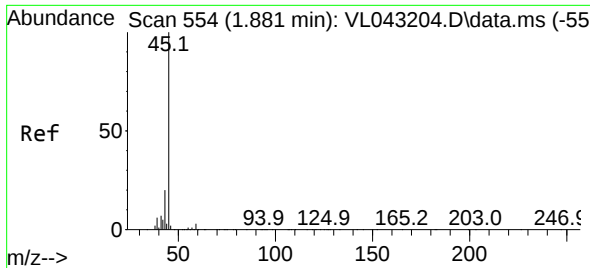
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 29.131 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

Tgt Ion: 43 Resp: 390504
Ion Ratio Lower Upper
43 100
58 25.4 20.7 31.1





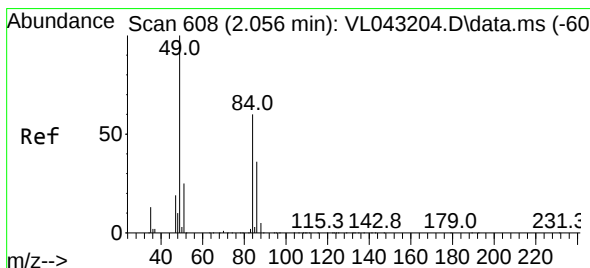
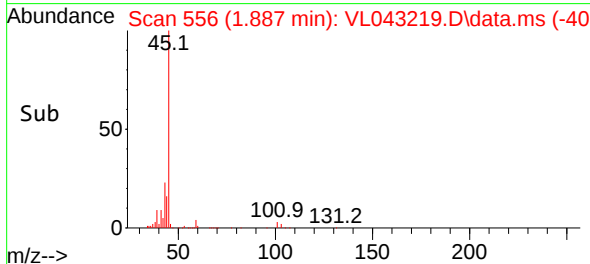
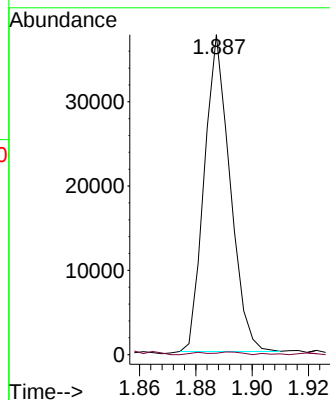
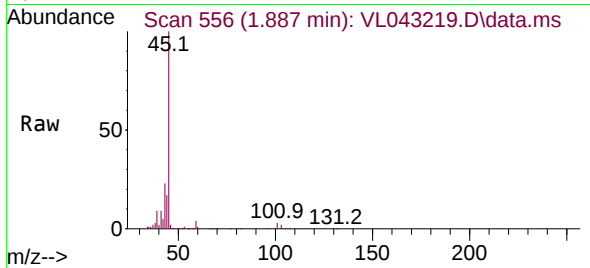
#19
Isopropyl Alcohol
Concen: 3.161 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 45 Resp: 2394
Ion Ratio Lower Upper
45 100
58 413.2 31.3 46.9

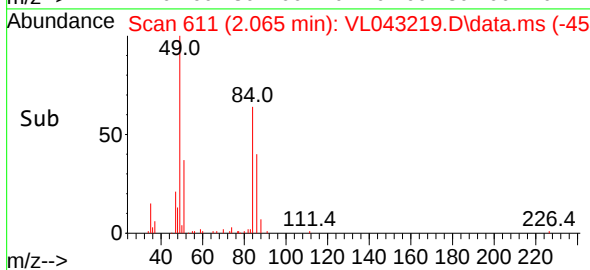
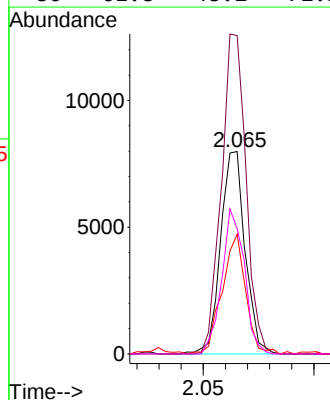
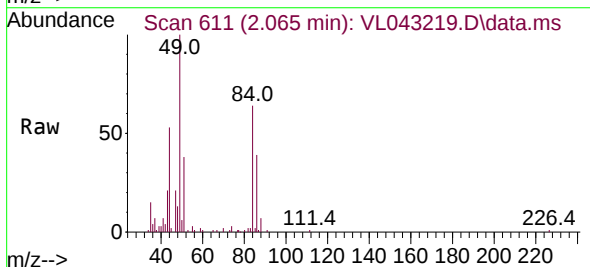
Manual Integrations
APPROVED

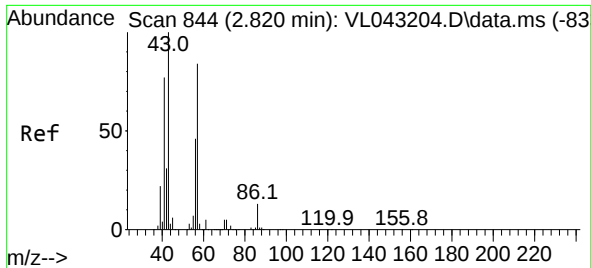
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 0.835 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.009 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

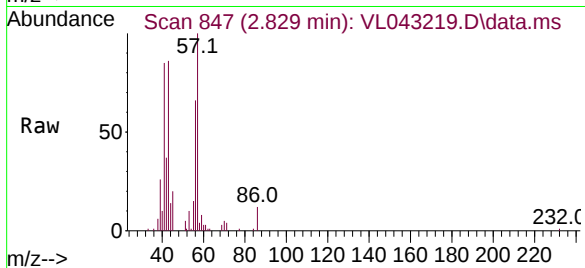
Tgt Ion: 84 Resp: 6139
Ion Ratio Lower Upper
84 100
49 157.3 132.9 199.3
51 59.1 34.8 52.2#
86 61.8 48.2 72.2





#26
Hexane
Concen: 0.467 ppbv
RT: 2.829 min Scan# 844
Delta R.T. 0.010 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

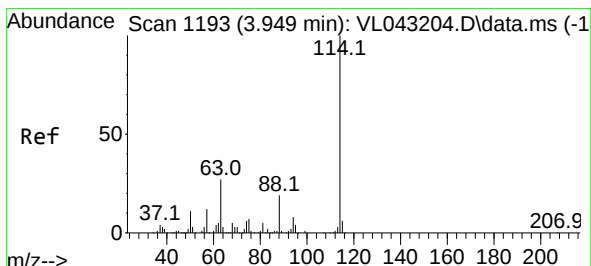
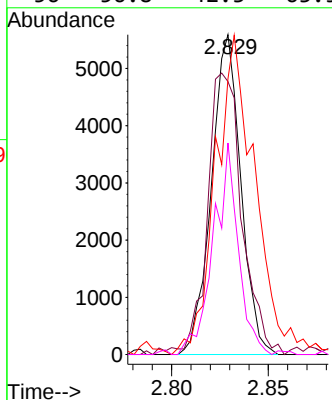
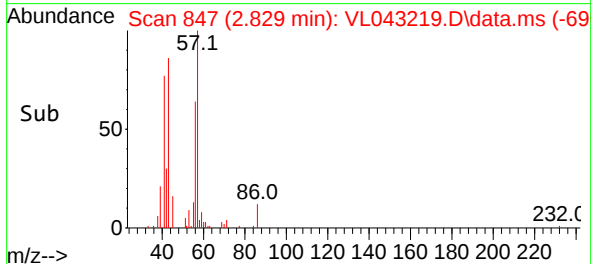
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 5923
Ion Ratio Lower Upper
57 100
41 105.1 74.6 111.8
43 137.4 179.0 268.4
56 56.8 42.3 63.5

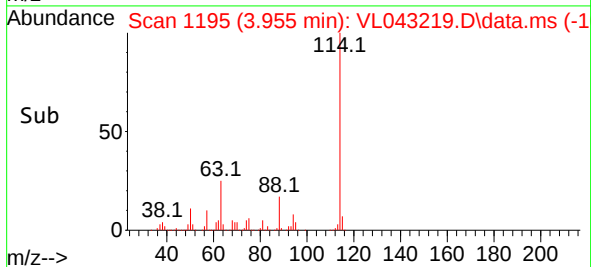
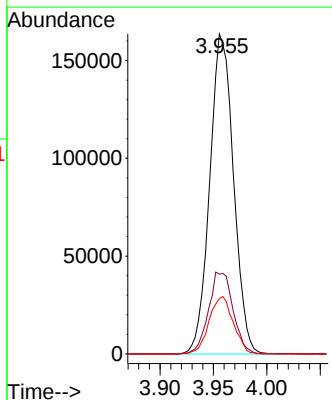
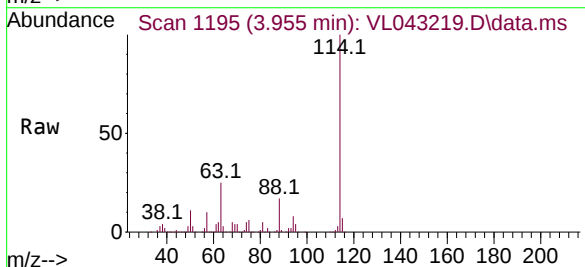
Manual Integrations
APPROVED

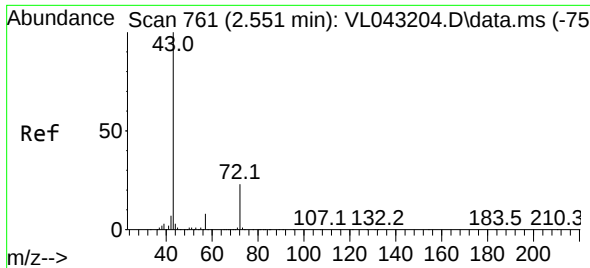
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

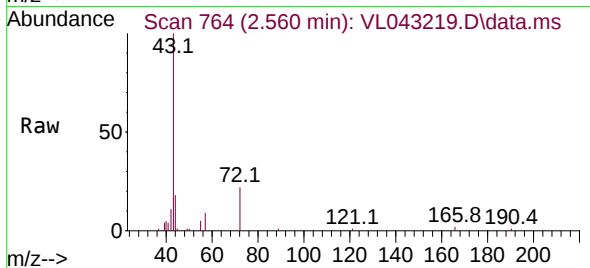
Tgt Ion:114 Resp: 253507
Ion Ratio Lower Upper
114 100
63 26.3 21.0 31.6
88 18.2 14.9 22.3





#34
2-Butanone
Concen: 0.292 ppbv
RT: 2.560 min Scan# 761
Delta R.T. 0.010 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

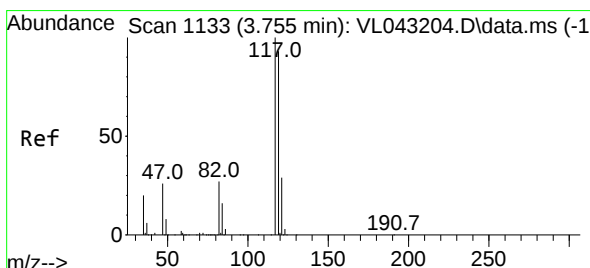
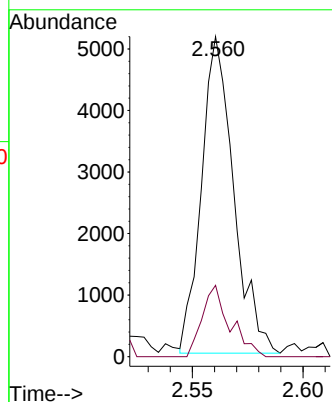
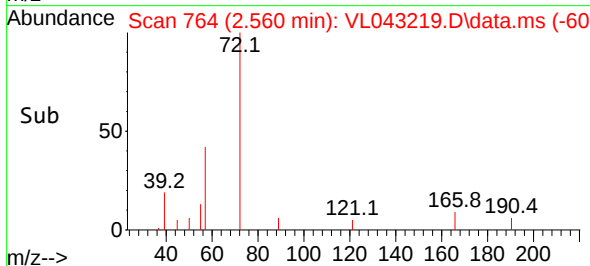
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 522
Ion Ratio Lower Upper
43 100
72 19.3 18.1 27.1

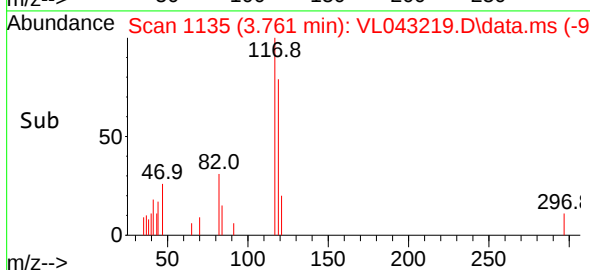
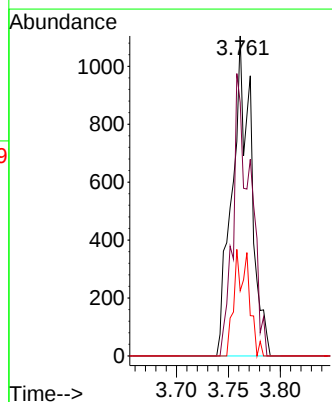
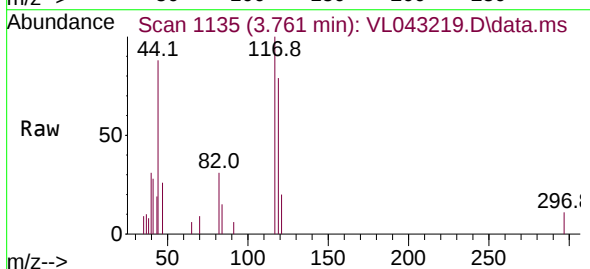
Manual Integrations
APPROVED

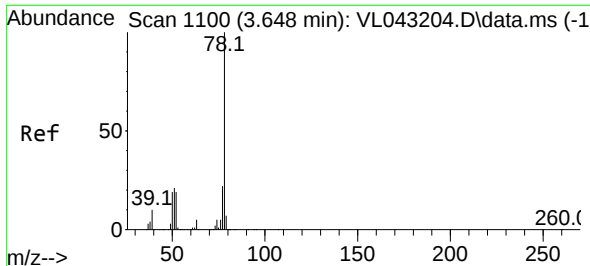
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

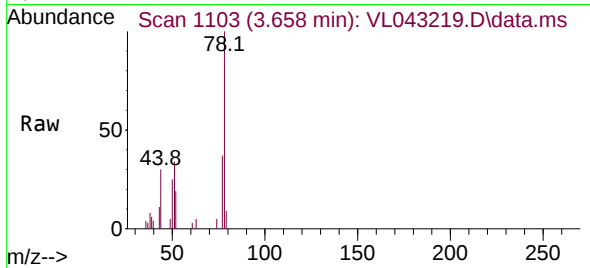
Tgt Ion:117 Resp: 1420
Ion Ratio Lower Upper
117 100
119 79.2 74.6 112.0
121 20.4 23.2 34.8#





#36
Benzene
Concen: 0.101 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. 0.010 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

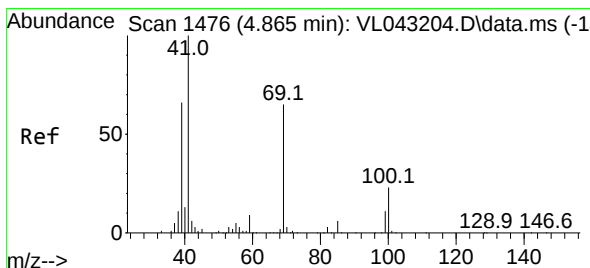
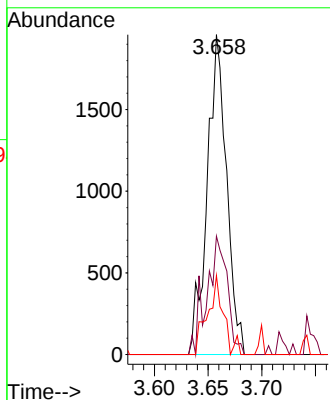
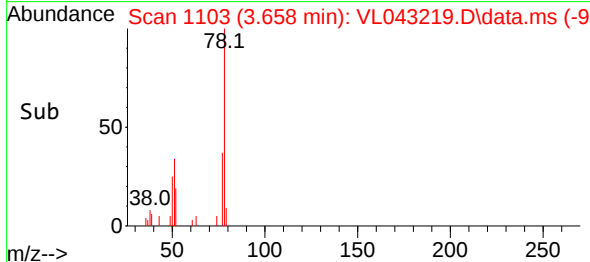
Instrument : MSVOA_L
ClientSampleId : IA2



Tgt Ion: 78 Resp: 2456
Ion Ratio Lower Upper
78 100
77 37.0 17.5 26.3#
50 24.7 15.5 23.3#

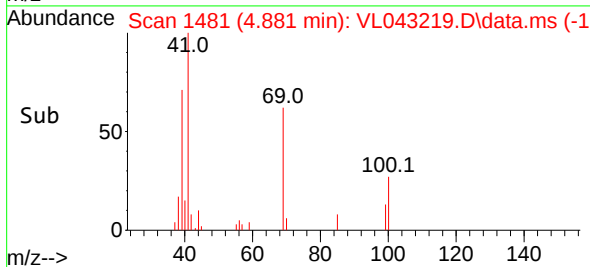
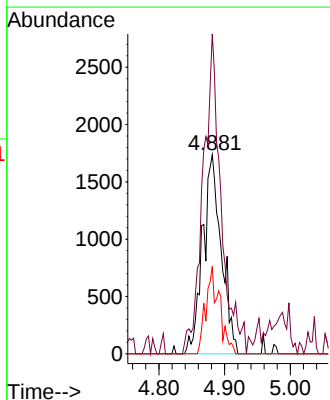
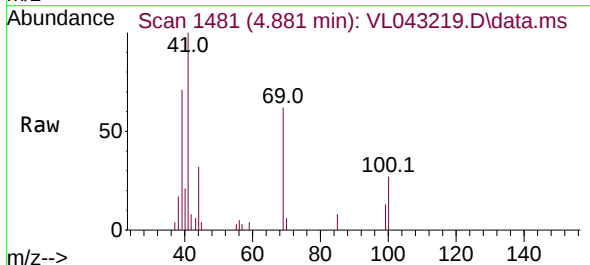
Manual Integrations
APPROVED

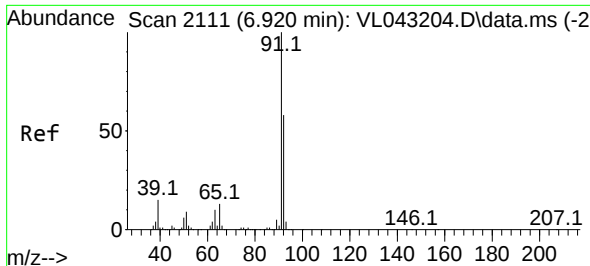
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#43
Methyl Methacrylate
Concen: 0.270 ppbv m
RT: 4.881 min Scan# 1481
Delta R.T. 0.016 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

Tgt Ion: 69 Resp: 3475
Ion Ratio Lower Upper
69 100
41 0.0 126.7 190.1#
100 0.0 28.6 43.0#





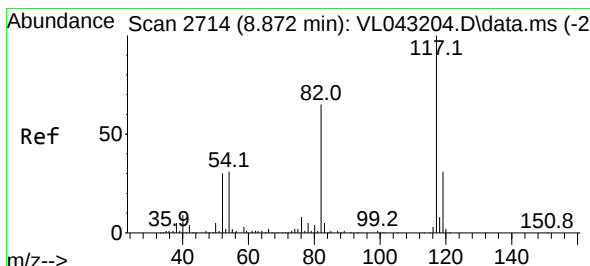
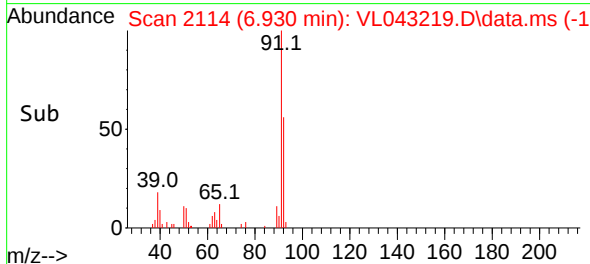
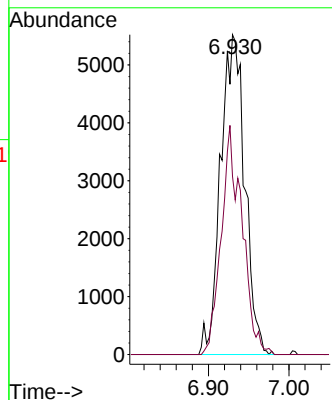
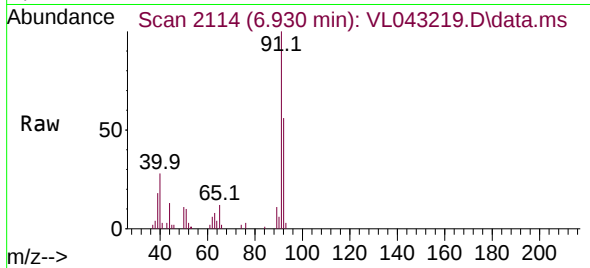
#53
Toluene
Concen: 0.400 ppbv m
RT: 6.930 min Scan# 2111
Delta R.T. 0.010 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 91 Resp: 11489
Ion Ratio Lower Upper
91 100
92 62.1 47.4 71.0

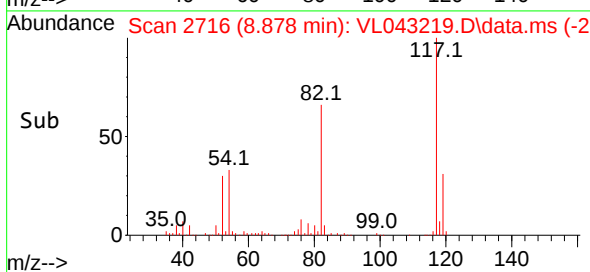
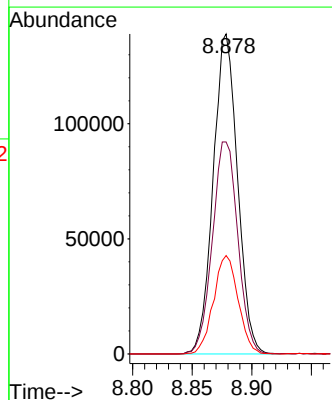
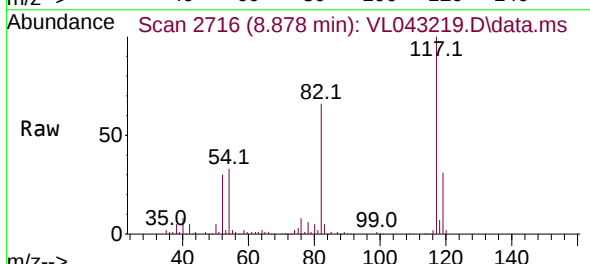
Manual Integrations
APPROVED

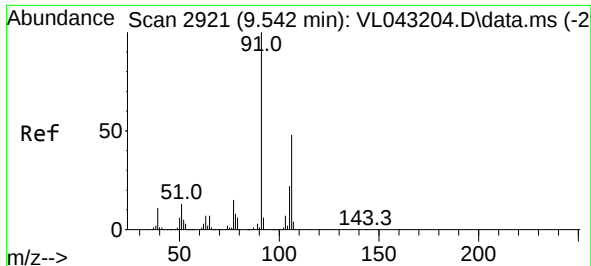
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.006 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

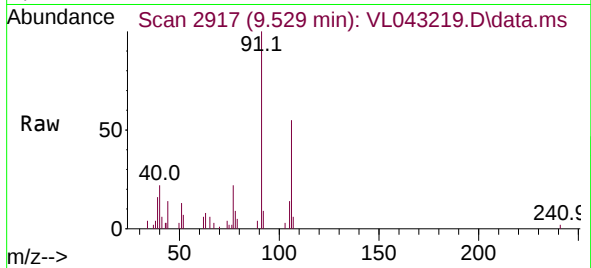
Tgt Ion:117 Resp: 197811
Ion Ratio Lower Upper
117 100
82 69.2 56.1 84.1
119 31.1 25.0 37.6





#59
m/p-Xylene
Concen: 0.239 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.013 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

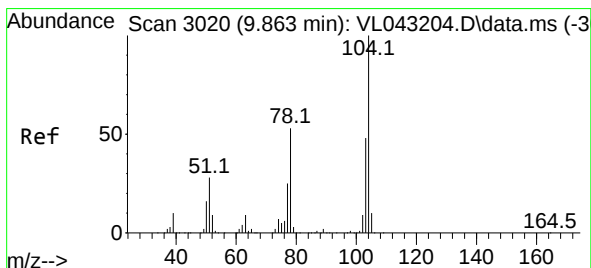
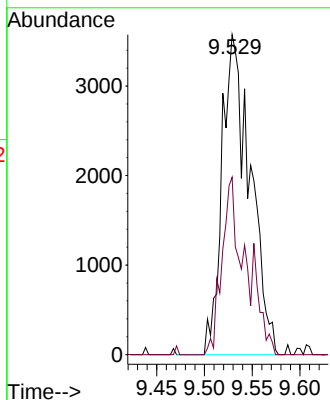
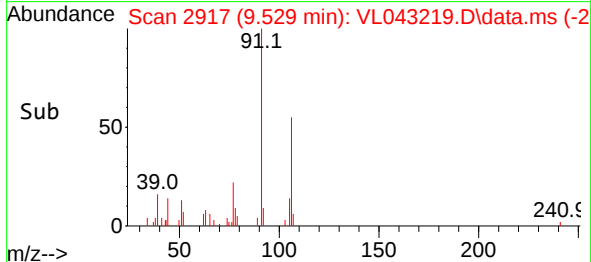
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 91 Resp: 728
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#

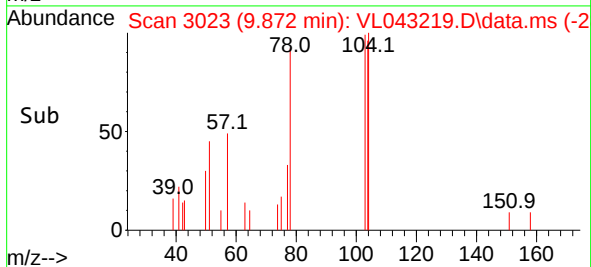
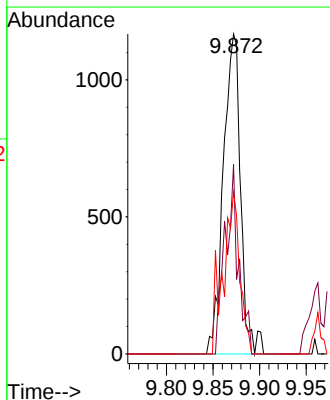
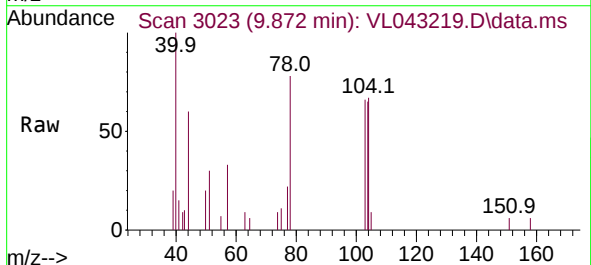
Manual Integrations
APPROVED

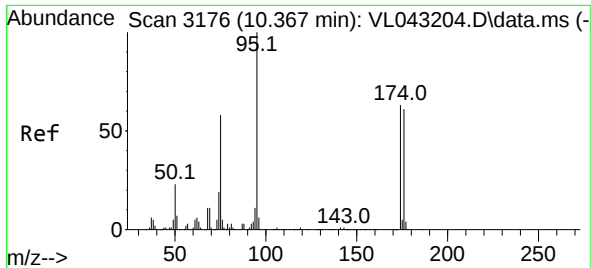
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#61
Styrene
Concen: 0.112 ppbv m
RT: 9.872 min Scan# 3023
Delta R.T. 0.010 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

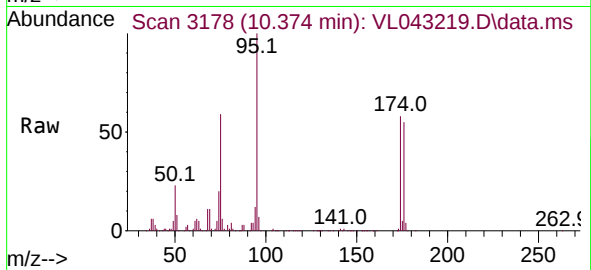
Tgt Ion:104 Resp: 1495
Ion Ratio Lower Upper
104 100
78 0.0 42.1 63.1#
103 0.0 37.2 55.8#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.251 ppbv
RT: 10.374 min Scan# 3176
Delta R.T. 0.006 min
Lab File: VL043219.D
Acq: 18 Nov 2025 18:49

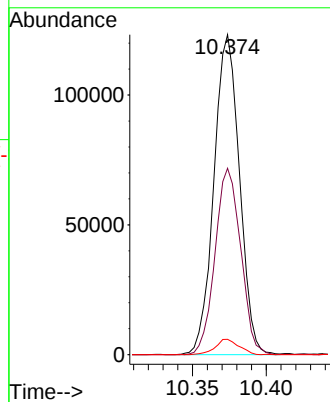
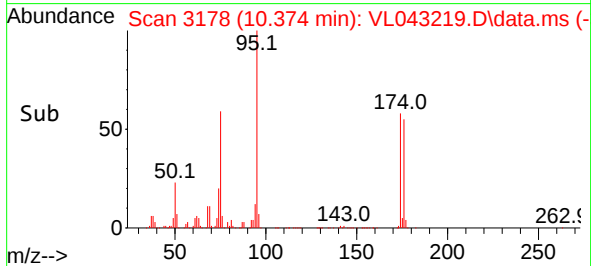
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 95 Resp: 148639
Ion Ratio Lower Upper
95 100
174 58.3 50.2 75.2
175 4.4 4.1 6.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Report of Analysis

Client: GFE LLC
Project: 470 TO 472 WESTBURY AVE
Client Sample ID: IA3
Lab Sample ID: Q3650-05
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3650
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/18/25 19:23	VL111825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/18/25 19:23	VL111825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/18/25 19:23	VL111825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/18/25 19:23	VL111825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/18/25 19:23	VL111825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/18/25 19:23	VL111825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/18/25 19:23	VL111825
71-43-2	Benzene	0.11	0.35	J	1	0.26	1.60	11/18/25 19:23	VL111825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/18/25 19:23	VL111825
108-88-3	Toluene	0.42	1.58	J	1	0.60	1.88	11/18/25 19:23	VL111825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/18/25 19:23	VL111825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/18/25 19:23	VL111825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/18/25 19:23	VL111825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/18/25 19:23	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 19:23	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 19:23	VL111825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/18/25 19:23	VL111825
110-54-3	Hexane	0.34	1.20	J	1	0.56	1.76	11/18/25 19:23	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.5		65 - 135	105%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	91500
540-36-3	1,4-Difluorobenzene	244000
3114-55-4	Chlorobenzene-d5	189000

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\VL111825\
 Data File : VL043220.D
 Acq On : 18 Nov 2025 19:23
 Operator : SY/MD
 Sample : Q3650-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:38:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	91519	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	244106	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	189099	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	145646	10.508	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	5591	0.433	ppbv	94
3) Chlorodifluoromethane	1.476	51	3162m	0.249	ppbv	
4) Chloromethane	1.535	50	2234	0.463	ppbv	92
9) Propene	1.489	41	4189	0.777	ppbv #	1
11) Trichlorofluoromethane	1.878	101	2937m	0.235	ppbv	
13) Ethanol	1.722	45	24108	12.718	ppbv	97
15) Acetone	1.836	43	386426	30.391	ppbv	98
19) Isopropyl Alcohol	1.884	45	28082	3.908	ppbv #	1
20) Methylene Chloride	2.062	84	5011	0.600	ppbv	94
26) Hexane	2.826	57	4135	0.344	ppbv #	77
34) 2-Butanone	2.557	43	6841	0.397	ppbv	98
35) Carbon Tetrachloride	3.761	117	1242m	0.067	ppbv	
36) Benzene	3.658	78	2658m	0.114	ppbv	
43) Methyl Methacrylate	4.875	69	3369m	0.272	ppbv	
44) 2,2,4-Trimethylpentane	4.639	57	4310m	0.107	ppbv	
53) Toluene	6.927	91	11573	0.418	ppbv	96
59) m/p-Xylene	9.523	91	6417m	0.220	ppbv	

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

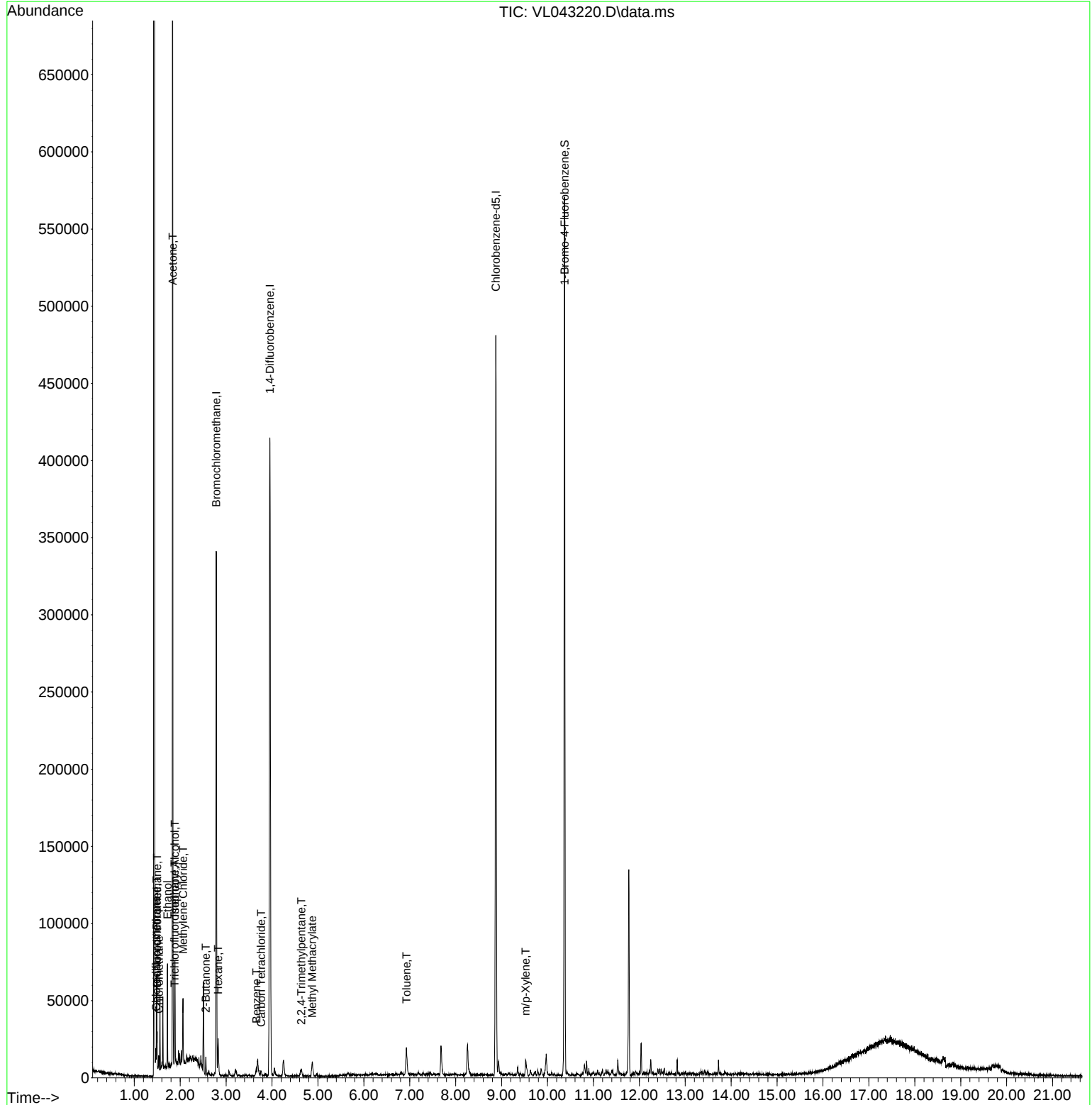
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043220.D
Acq On : 18 Nov 2025 19:23
Operator : SY/MD
Sample : Q3650-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

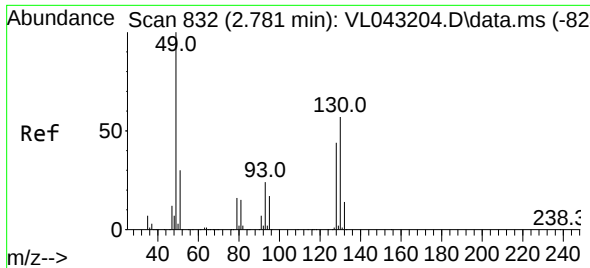
Instrument :
MSVOA_L
ClientSampleId :
IA3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

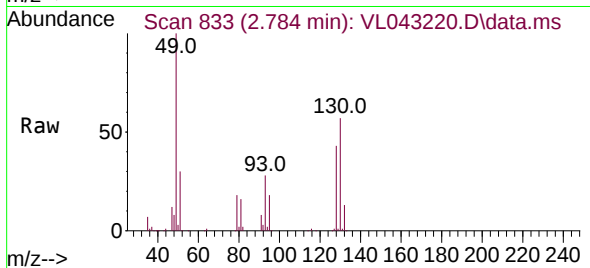
Quant Time: Nov 19 01:38:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 832
Delta R.T. 0.003 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

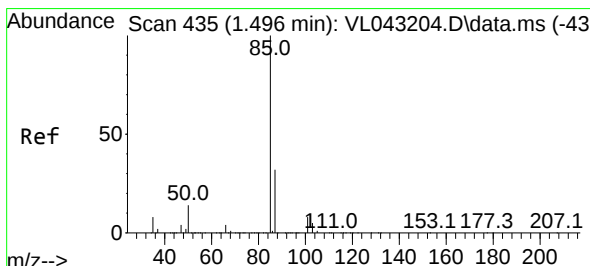
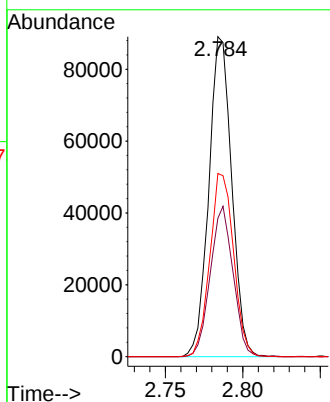
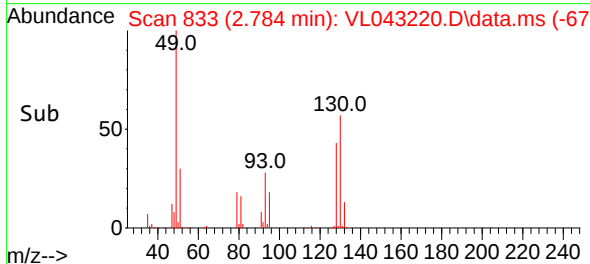
Instrument :
MSVOA_L
ClientSampleId :
IA3



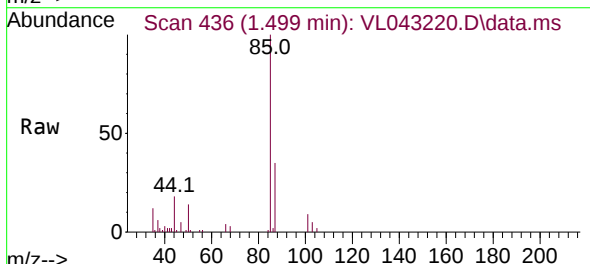
Tgt Ion: 49 Resp: 91519
Ion Ratio Lower Upper
49 100
128 46.7 23.0 69.0
130 59.4 29.9 89.7

Manual Integrations
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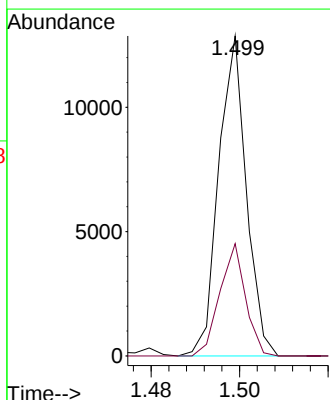
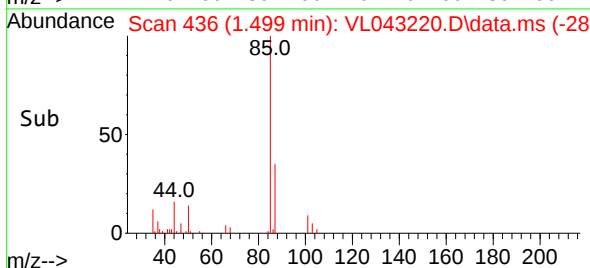
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

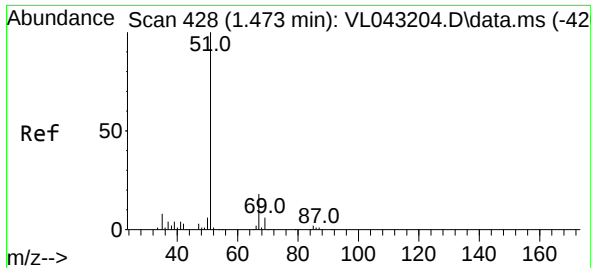


#2
Dichlorodifluoromethane
Concen: 0.433 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23



Tgt Ion: 85 Resp: 5591
Ion Ratio Lower Upper
85 100
87 35.1 25.4 38.2





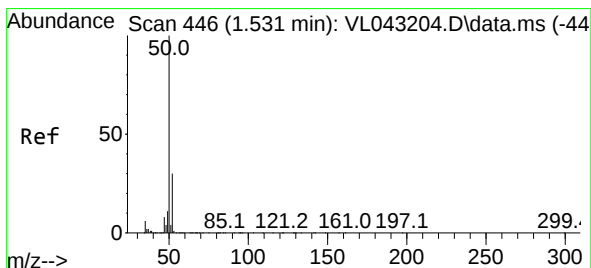
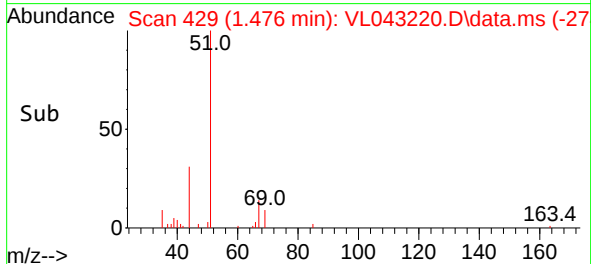
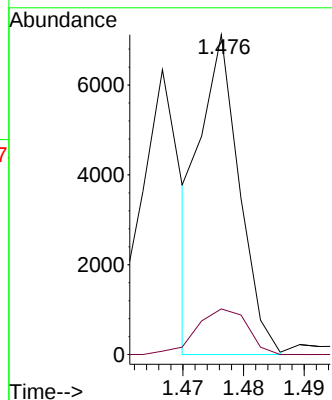
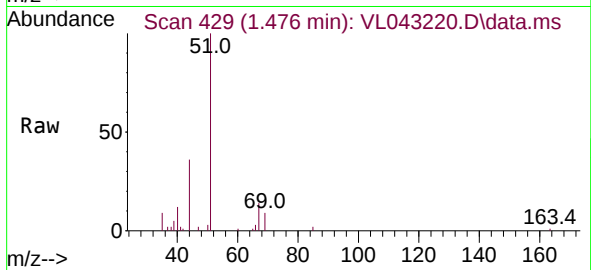
#3
Chlorodifluoromethane
Concen: 0.249 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 51 Resp: 3162
Ion Ratio Lower Upper
51 100
67 2.3 14.9 22.3

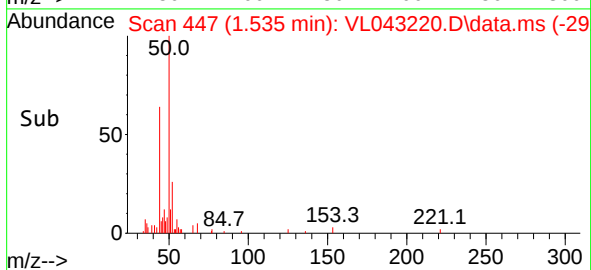
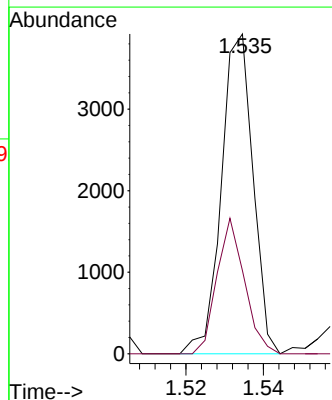
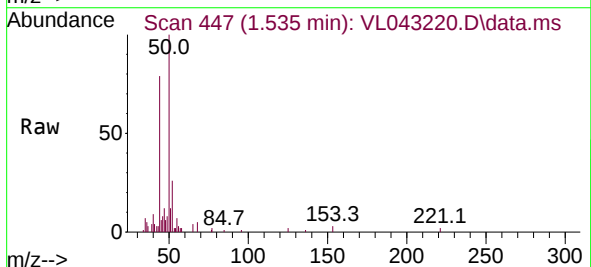
Manual Integrations
APPROVED

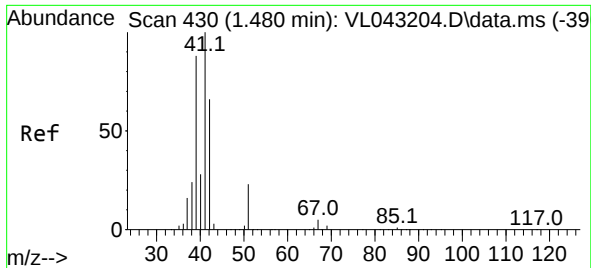
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 0.463 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

Tgt Ion: 50 Resp: 2234
Ion Ratio Lower Upper
50 100
52 26.0 24.1 36.1





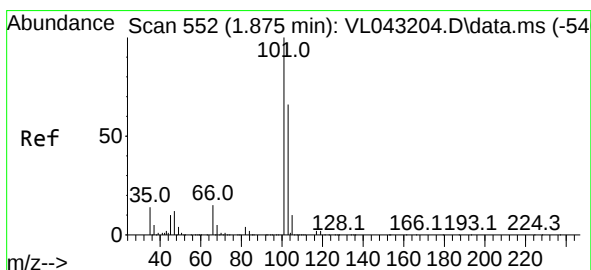
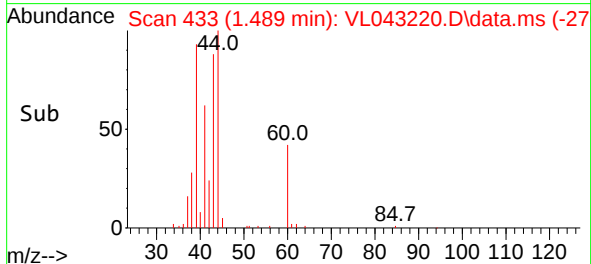
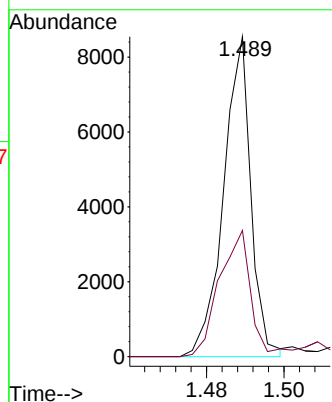
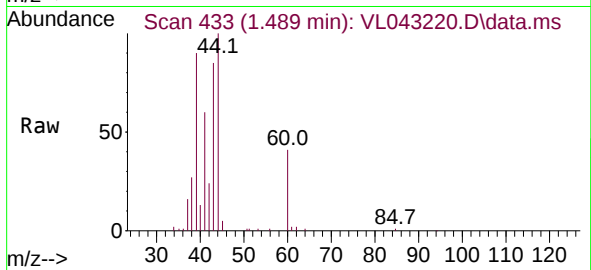
#9
Propene
Concen: 0.777 ppbv
RT: 1.489 min Scan# 430
Delta R.T. 0.010 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 41 Resp: 4189
Ion Ratio Lower Upper
41 100
42 56.3 3.7 5.5

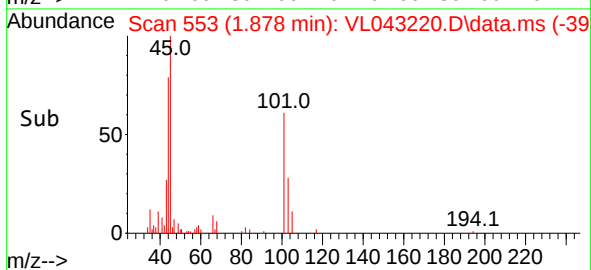
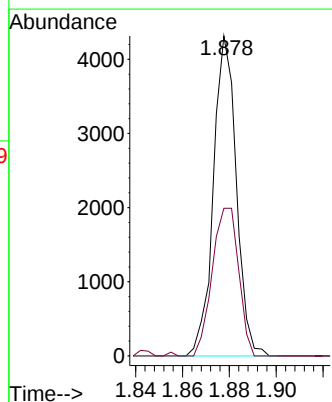
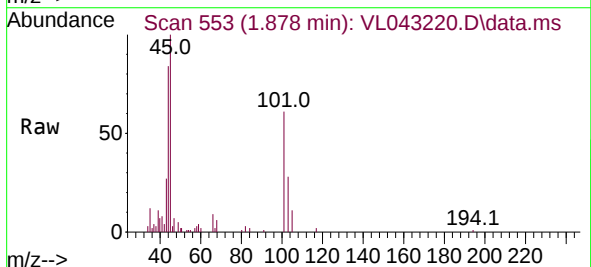
Manual Integrations
APPROVED

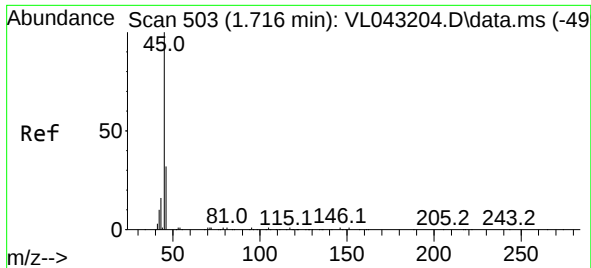
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#11
Trichlorofluoromethane
Concen: 0.235 ppbv m
RT: 1.878 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

Tgt Ion:101 Resp: 2937
Ion Ratio Lower Upper
101 100
103 46.1 52.6 79.0





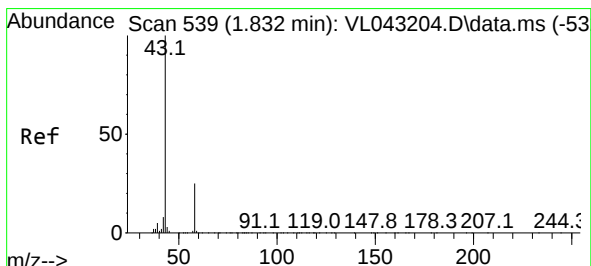
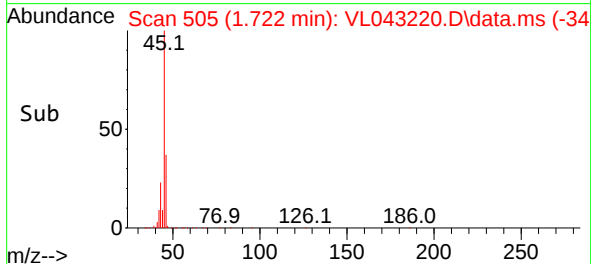
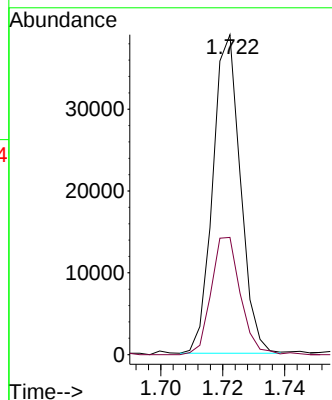
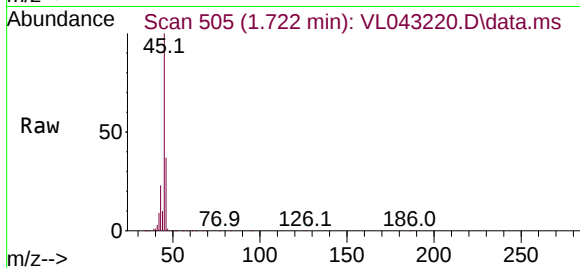
#13
Ethanol
Concen: 12.718 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 45 Resp: 24108
Ion Ratio Lower Upper
45 100
46 39.2 15.0 59.8

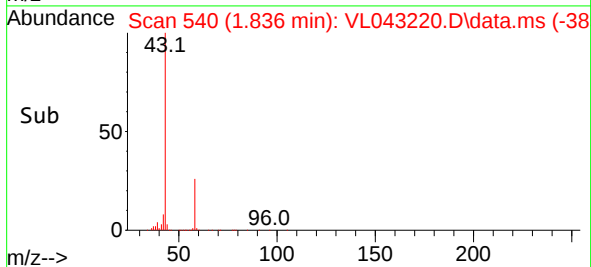
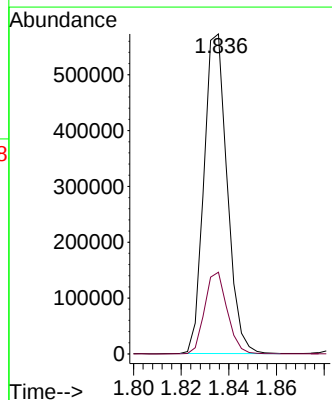
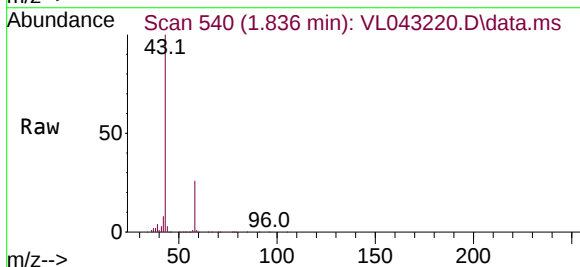
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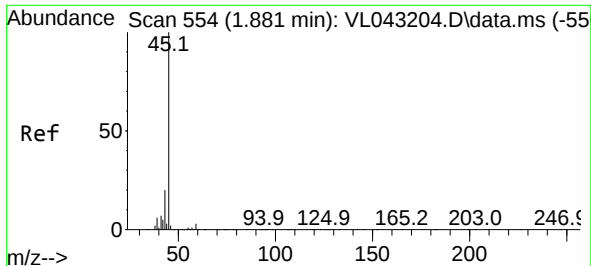
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 30.391 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

Tgt Ion: 43 Resp: 386426
Ion Ratio Lower Upper
43 100
58 25.0 20.7 31.1





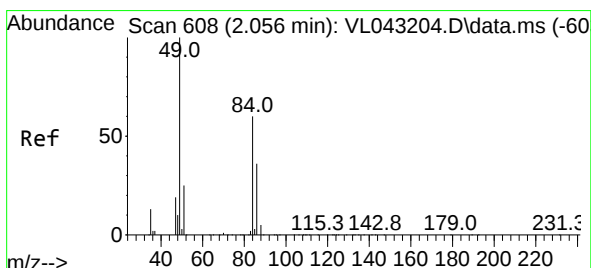
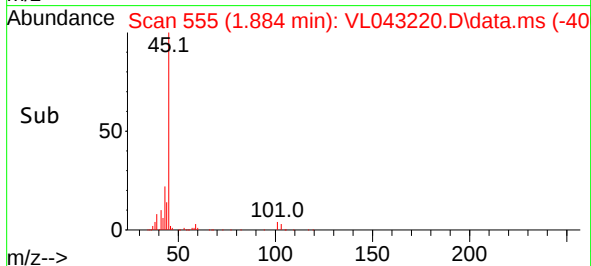
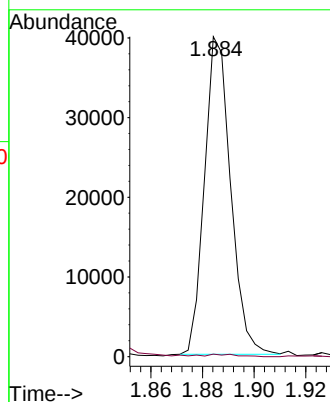
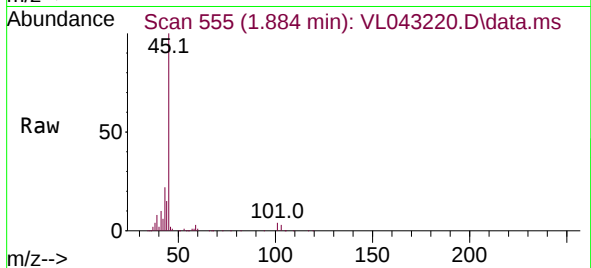
#19
Isopropyl Alcohol
Concen: 3.908 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 45 Resp: 28082
Ion Ratio Lower Upper
45 100
58 344.5 31.3 46.9

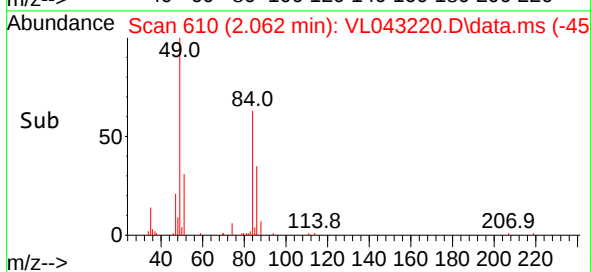
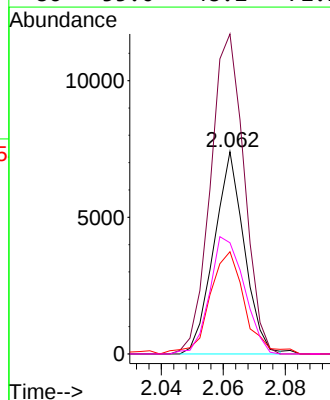
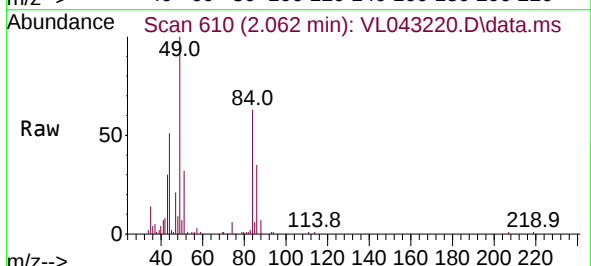
Manual Integrations
APPROVED

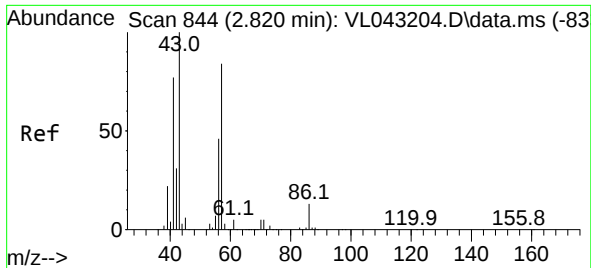
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 0.600 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.006 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

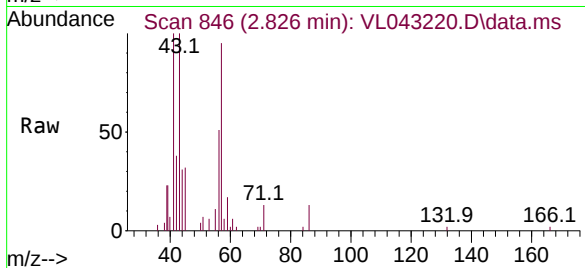
Tgt Ion: 84 Resp: 5011
Ion Ratio Lower Upper
84 100
49 158.3 132.9 199.3
51 48.4 34.8 52.2
86 55.0 48.2 72.2





#26
Hexane
Concen: 0.344 ppbv
RT: 2.826 min Scan# 844
Delta R.T. 0.006 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

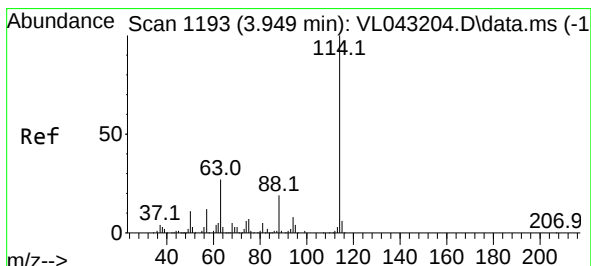
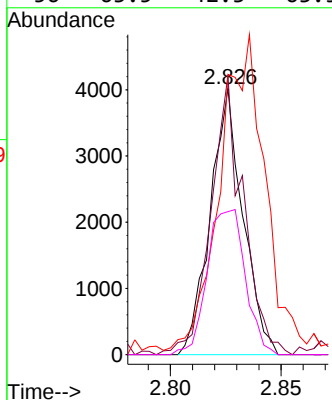
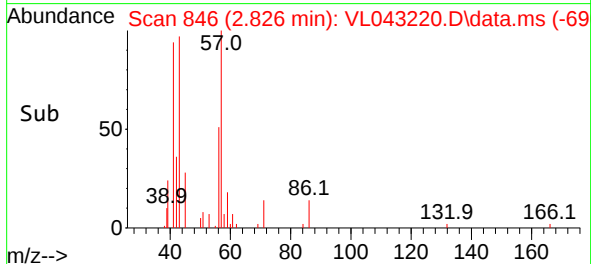
Instrument :
MSVOA_L
ClientSampleId :
IA3



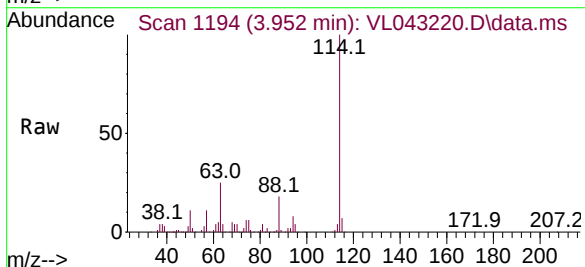
Tgt Ion: 57 Resp: 4135
Ion Ratio Lower Upper
57 100
41 107.4 74.6 111.8
43 177.2 179.0 268.4
56 63.5 42.3 63.5

Manual Integrations
APPROVED

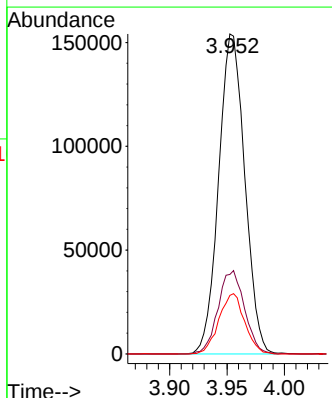
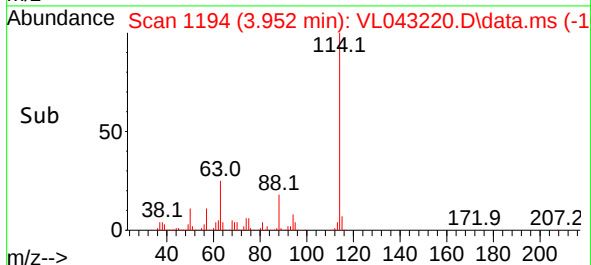
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

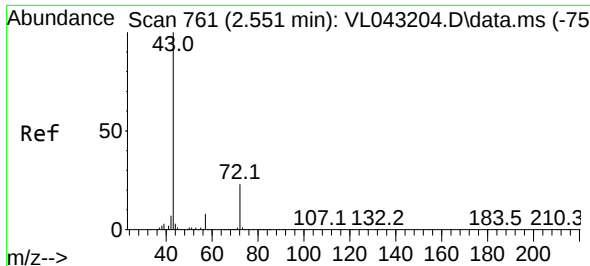


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23



Tgt Ion:114 Resp: 244106
Ion Ratio Lower Upper
114 100
63 26.4 21.0 31.6
88 18.5 14.9 22.3





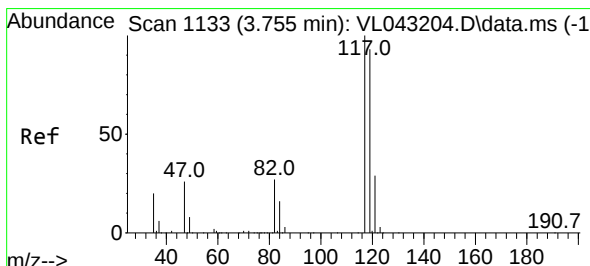
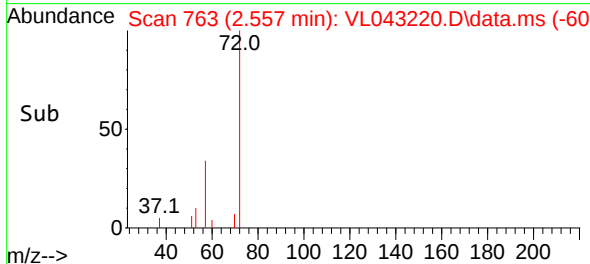
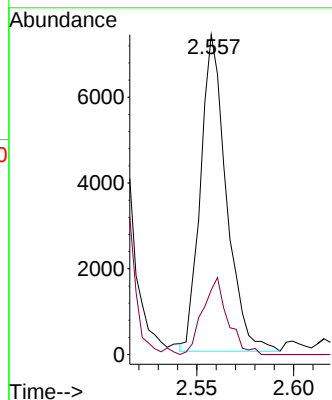
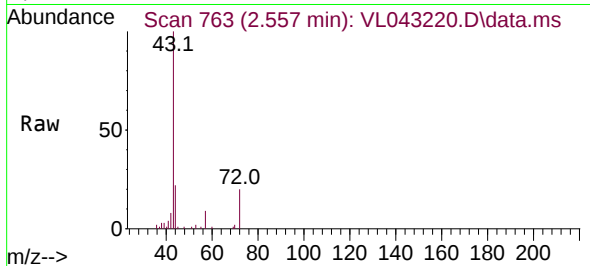
#34
2-Butanone
Concen: 0.397 ppbv
RT: 2.557 min Scan# 761
Delta R.T. 0.006 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 43 Resp: 684
Ion Ratio Lower Upper
43 100
72 23.6 18.1 27.1

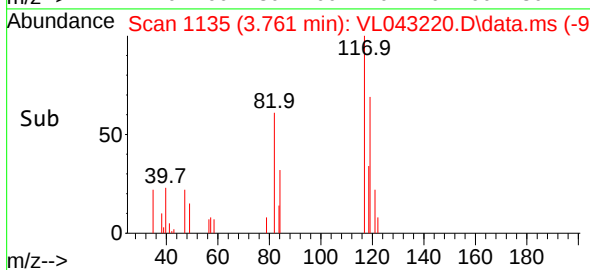
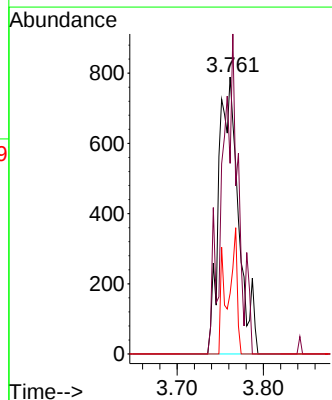
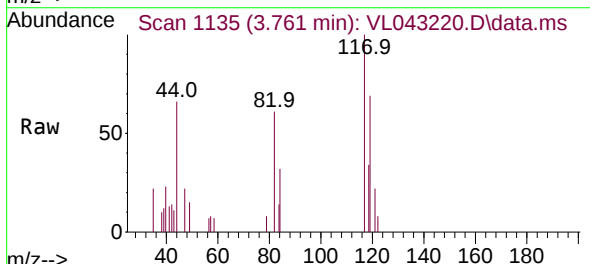
Manual Integrations
APPROVED

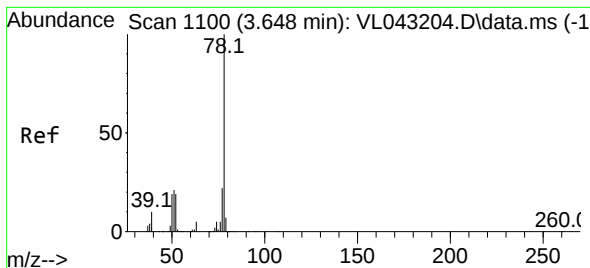
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#35
Carbon Tetrachloride
Concen: 0.067 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.006 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

Tgt Ion:117 Resp: 1242
Ion Ratio Lower Upper
117 100
119 68.8 74.6 112.0#
121 21.9 23.2 34.8#





#36

Benzene

Concen: 0.114 ppbv m

RT: 3.658 min Scan# 1100

Delta R.T. 0.010 min

Lab File: VL043220.D

Acq: 18 Nov 2025 19:23

Instrument :

MSVOA_L

ClientSampleId :

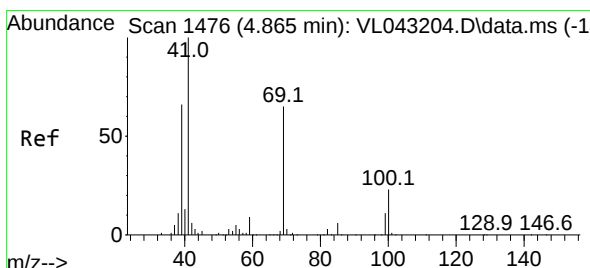
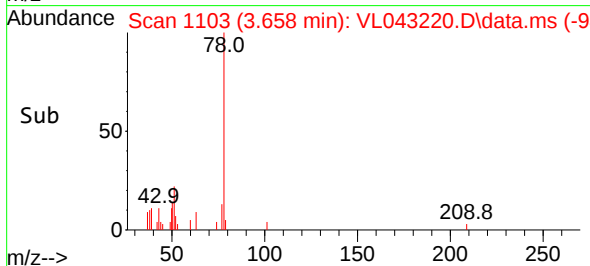
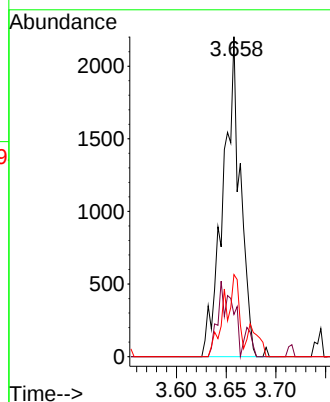
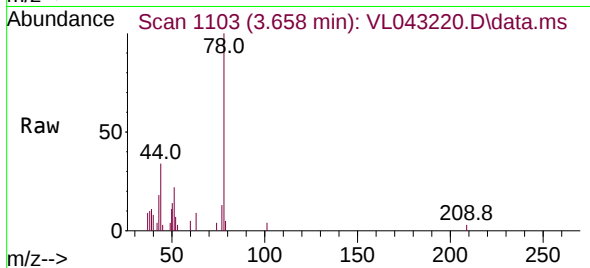
IA3

Tgt Ion: 78	Resp: 2658
Ion Ratio	Lower Upper
78 100	
77 13.2	17.5 26.3
50 14.2	15.5 23.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#43

Methyl Methacrylate

Concen: 0.272 ppbv m

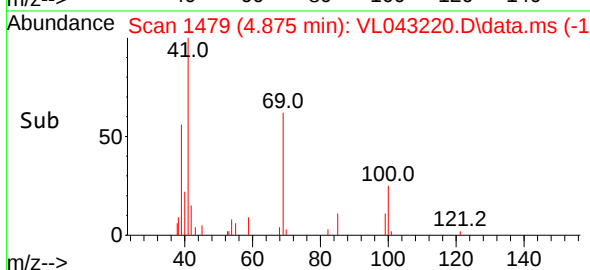
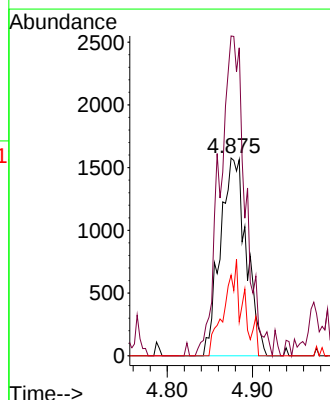
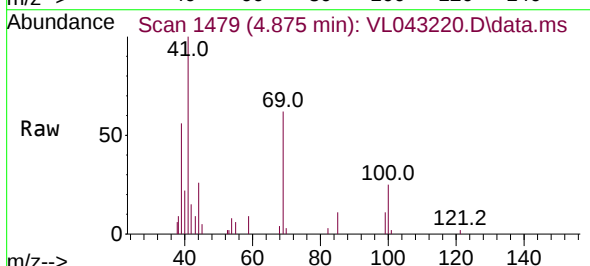
RT: 4.875 min Scan# 1479

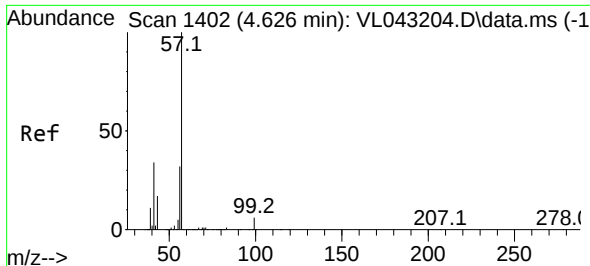
Delta R.T. 0.010 min

Lab File: VL043220.D

Acq: 18 Nov 2025 19:23

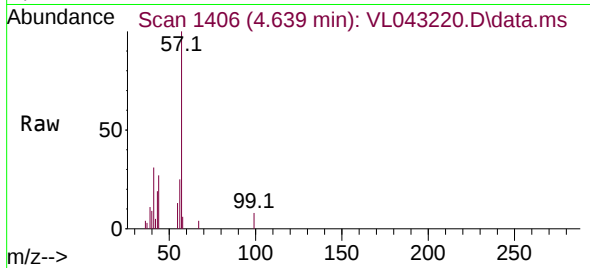
Tgt Ion: 69	Resp: 3369
Ion Ratio	Lower Upper
69 100	
41 0.0	126.7 190.1
100 0.0	28.6 43.0





#44
2,2,4-Trimethylpentane
Concen: 0.107 ppbv m
RT: 4.639 min Scan# 1406
Delta R.T. 0.013 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

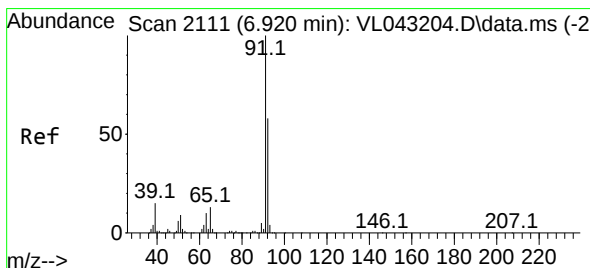
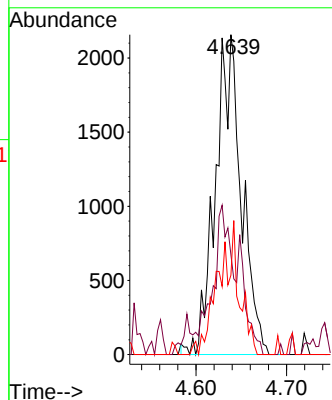
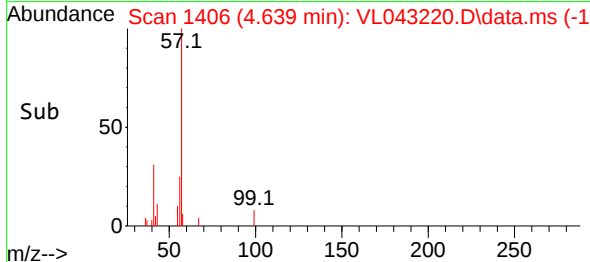
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 57 Resp: 4310
Ion Ratio Lower Upper
57 100
41 49.7 28.0 42.0
56 0.0 25.6 38.4

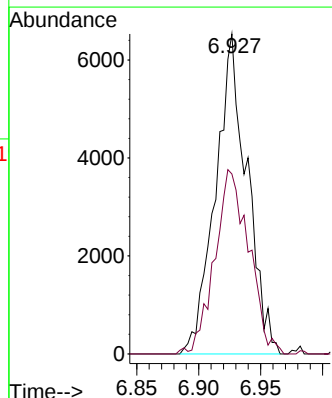
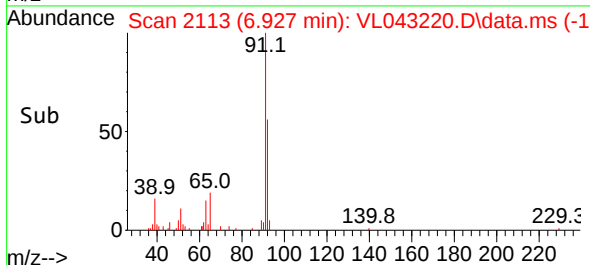
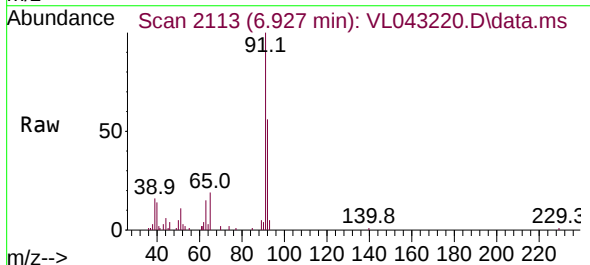
Manual Integrations
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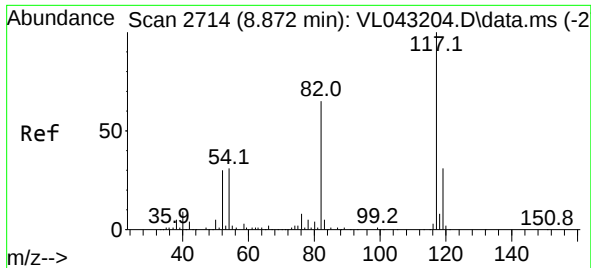
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#53
Toluene
Concen: 0.418 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

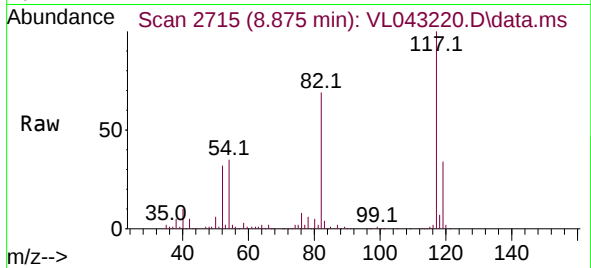
Tgt Ion: 91 Resp: 11573
Ion Ratio Lower Upper
91 100
92 62.2 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.003 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

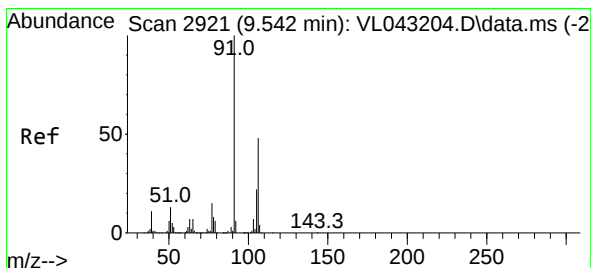
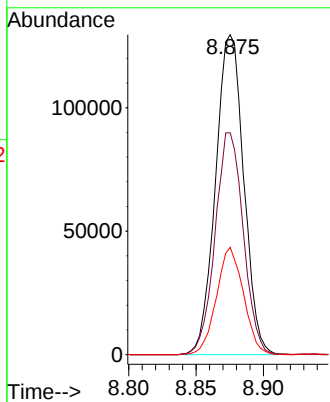
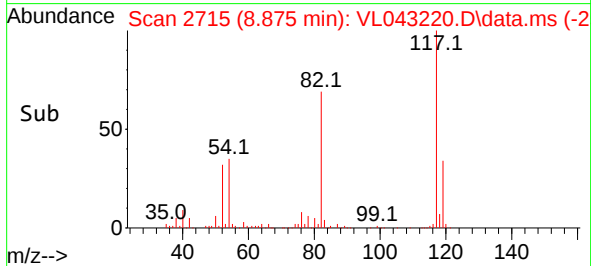
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:117 Resp: 189099
Ion Ratio Lower Upper
117 100
82 69.2 56.1 84.1
119 32.2 25.0 37.6

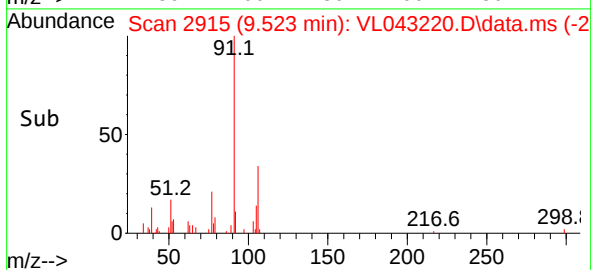
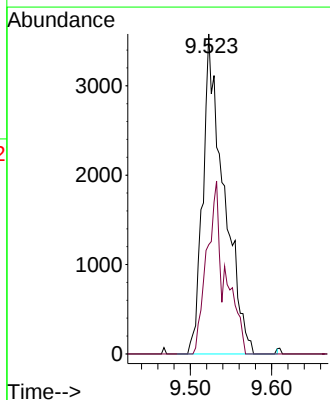
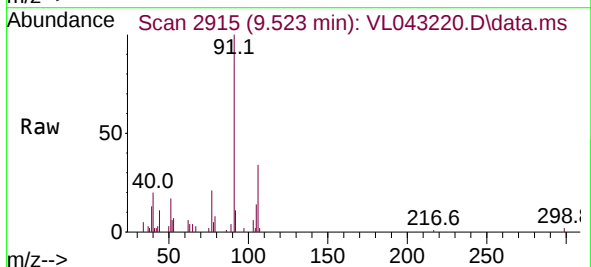
Manual Integrations
APPROVED

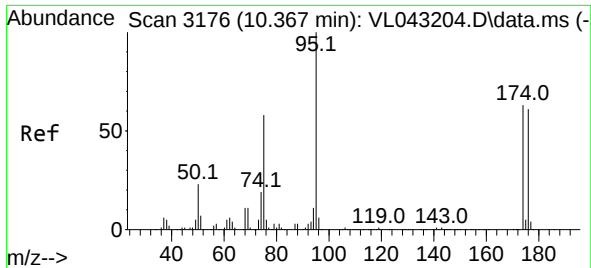
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#59
m/p-Xylene
Concen: 0.220 ppbv m
RT: 9.523 min Scan# 2915
Delta R.T. -0.019 min
Lab File: VL043220.D
Acq: 18 Nov 2025 19:23

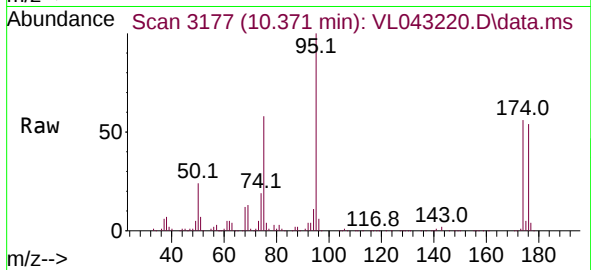
Tgt Ion: 91 Resp: 6417
Ion Ratio Lower Upper
91 100
106 0.0 36.1 54.1#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.508 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. 0.003 min
 Lab File: VL043220.D
 Acq: 18 Nov 2025 19:23

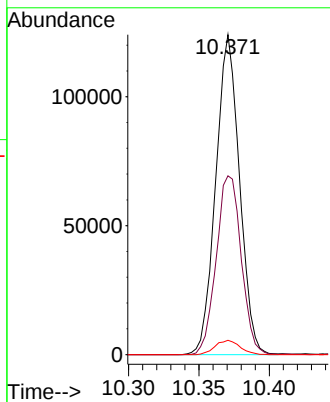
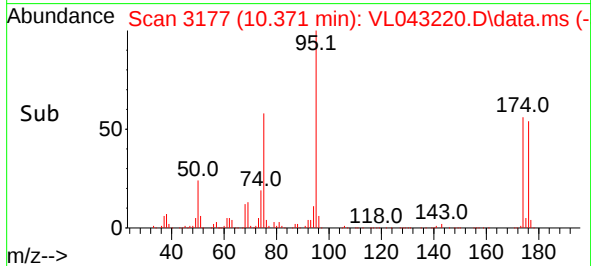
Instrument :
 MSVOA_L
 ClientSampleId :
 IA3



Tgt Ion: 95 Resp: 145646
 Ion Ratio Lower Upper
 95 100
 174 59.0 50.2 75.2
 175 4.7 4.1 6.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025



Report of Analysis

Client: GFE LLC
Project: 470 TO 472 WESTBURY AVE
Client Sample ID: OA1
Lab Sample ID: Q3650-06
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected: 11/11/25
Date Received: 11/14/25
SDG No.: Q3650
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/18/25 19:58	VL111825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/18/25 19:58	VL111825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/18/25 19:58	VL111825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/18/25 19:58	VL111825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/18/25 19:58	VL111825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/18/25 19:58	VL111825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/18/25 19:58	VL111825
71-43-2	Benzene	0.11	0.35	J	1	0.26	1.60	11/18/25 19:58	VL111825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/18/25 19:58	VL111825
108-88-3	Toluene	0.20	0.75	J	1	0.60	1.88	11/18/25 19:58	VL111825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/18/25 19:58	VL111825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/18/25 19:58	VL111825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/18/25 19:58	VL111825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/18/25 19:58	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 19:58	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 19:58	VL111825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/18/25 19:58	VL111825
110-54-3	Hexane	0.24	0.85	J	1	0.56	1.76	11/18/25 19:58	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.2		65 - 135	102%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	92100
540-36-3	1,4-Difluorobenzene	243000
3114-55-4	Chlorobenzene-d5	191000

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\VL111825\
 Data File : VL043221.D
 Acq On : 18 Nov 2025 19:58
 Operator : SY/MD
 Sample : Q3650-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:39:24 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	92120	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	243218	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	191077	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	142616	10.182	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	5645	0.434	ppbv	90
3) Chlorodifluoromethane	1.476	51	3193m	0.250	ppbv	
4) Chloromethane	1.534	50	2297	0.473	ppbv	92
9) Propene	1.486	41	1850	0.341	ppbv #	1
11) Trichlorofluoromethane	1.877	101	2720m	0.216	ppbv	
13) Ethanol	1.722	45	4898	2.567	ppbv #	38
15) Acetone	1.835	43	31117	2.431	ppbv	100
19) Isopropyl Alcohol	1.887	45	4362	0.603	ppbv #	1
20) Methylene Chloride	2.059	84	5113	0.619	ppbv #	91
26) Hexane	2.823	57	2923	0.242	ppbv #	52
34) 2-Butanone	2.560	43	4026	0.234	ppbv	100
35) Carbon Tetrachloride	3.758	117	1391m	0.075	ppbv	
36) Benzene	3.651	78	2521	0.108	ppbv #	84
53) Toluene	6.927	91	5489m	0.199	ppbv	

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

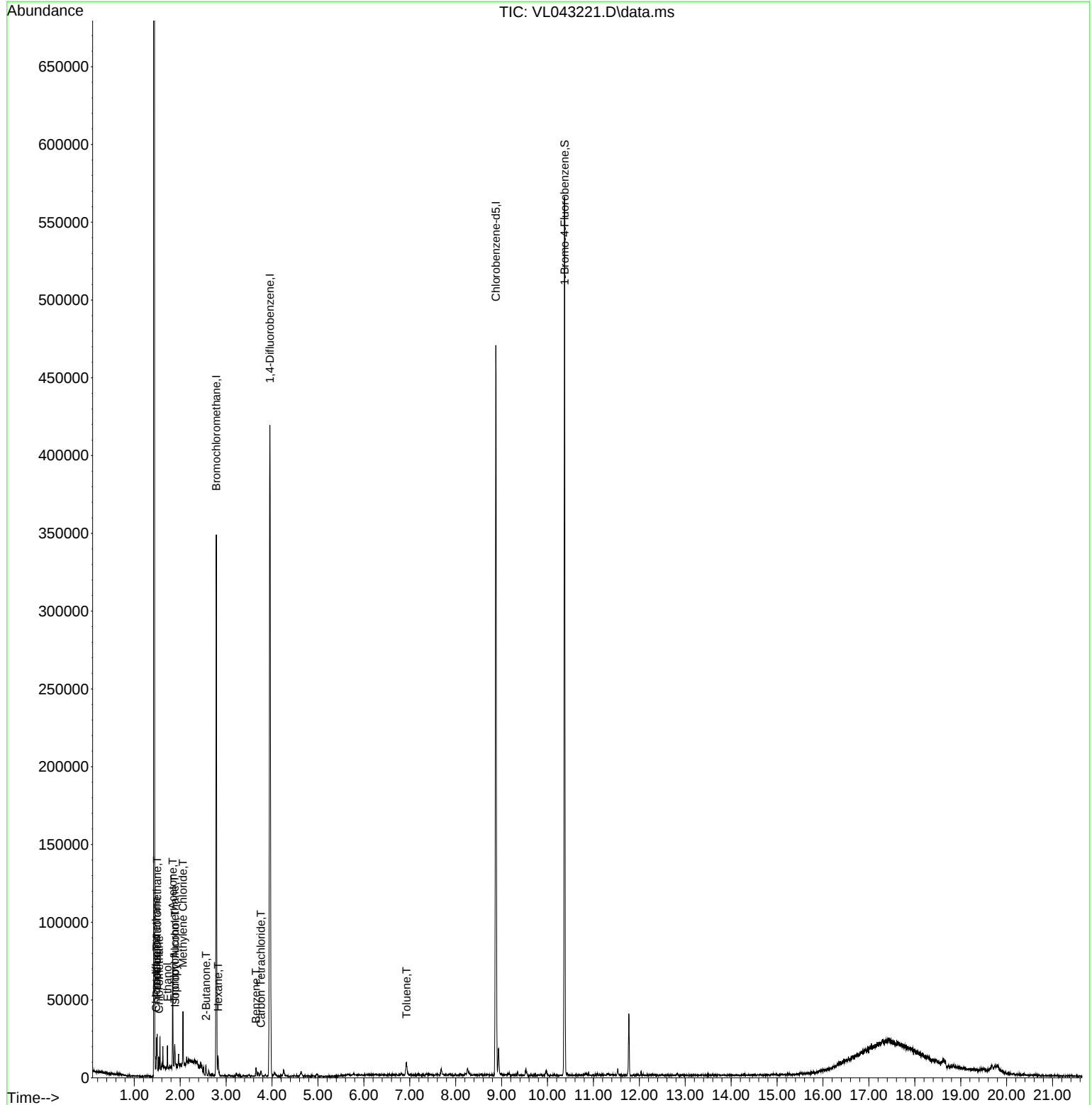
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043221.D
Acq On : 18 Nov 2025 19:58
Operator : SY/MD
Sample : Q3650-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

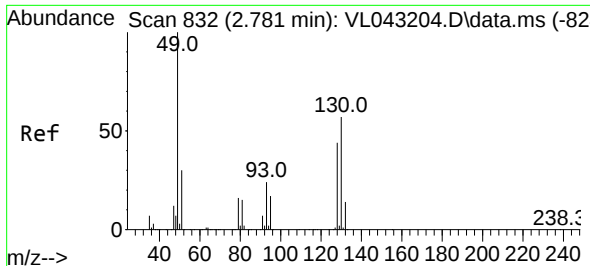
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Nov 19 01:39:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

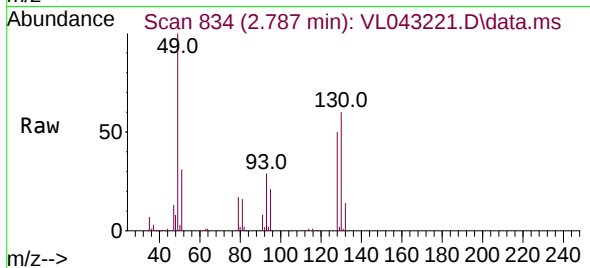
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

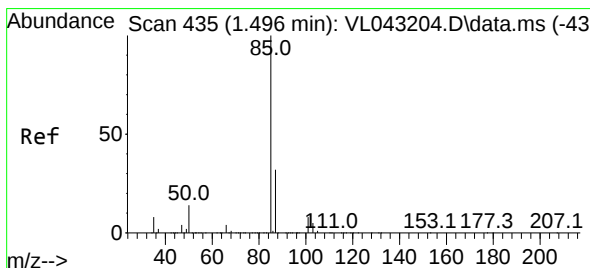
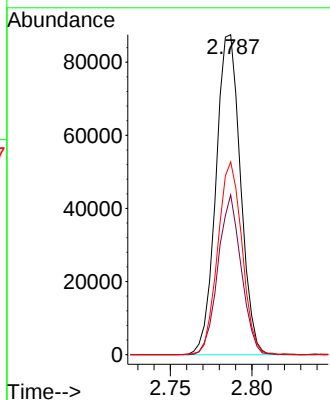
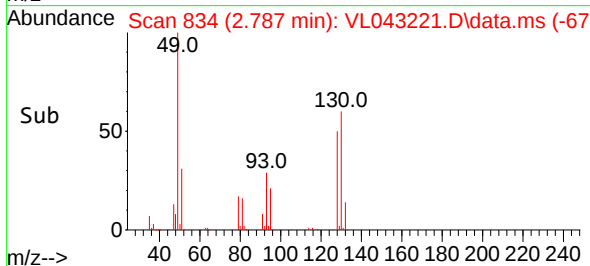
Instrument :
MSVOA_L
ClientSampleId :
OA1



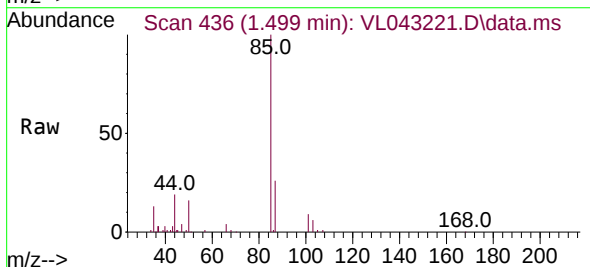
Tgt Ion: 49 Resp: 92120
Ion Ratio Lower Upper
49 100
128 47.0 23.0 69.0
130 59.4 29.9 89.7

Manual Integrations
APPROVED

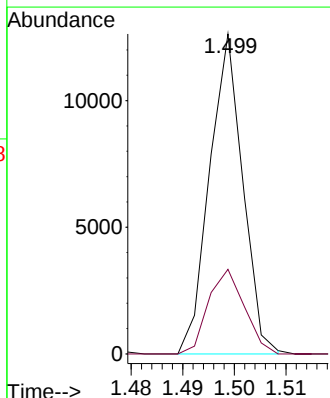
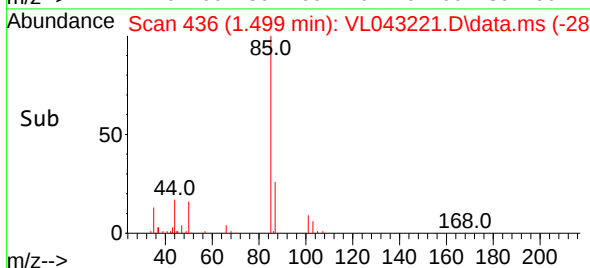
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025

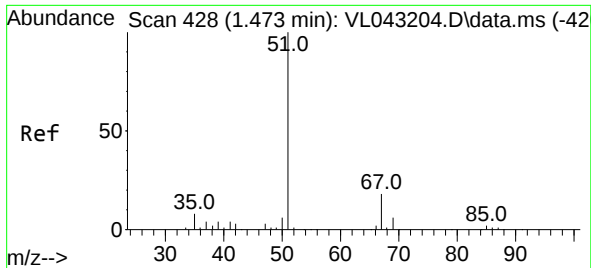


#2
Dichlorodifluoromethane
Concen: 0.434 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58



Tgt Ion: 85 Resp: 5645
Ion Ratio Lower Upper
85 100
87 26.4 25.4 38.2





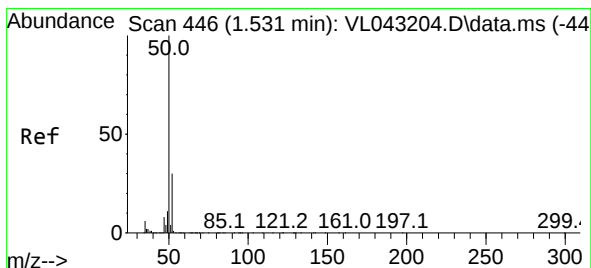
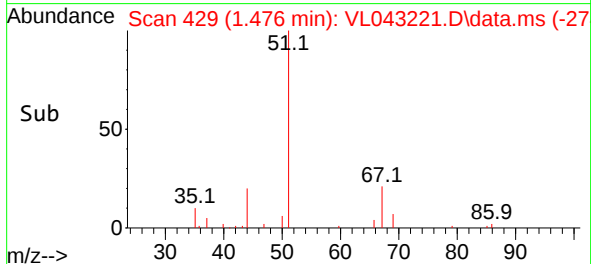
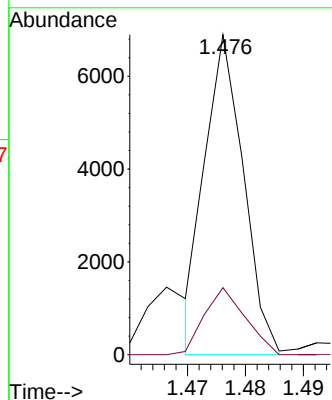
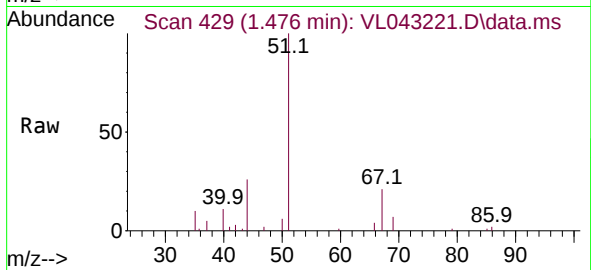
#3
Chlorodifluoromethane
Concen: 0.250 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 3193
Ion Ratio Lower Upper
51 100
67 22.4 14.9 22.3

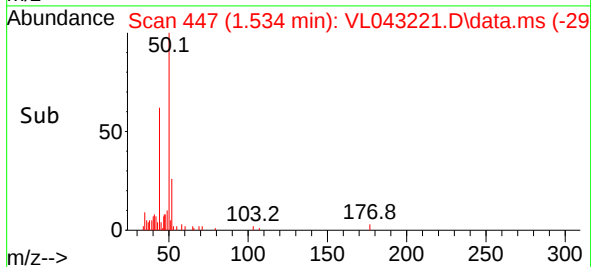
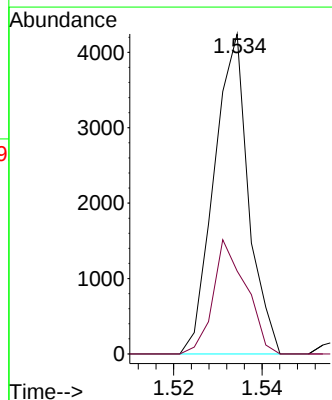
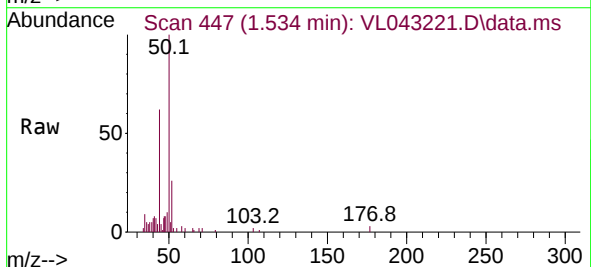
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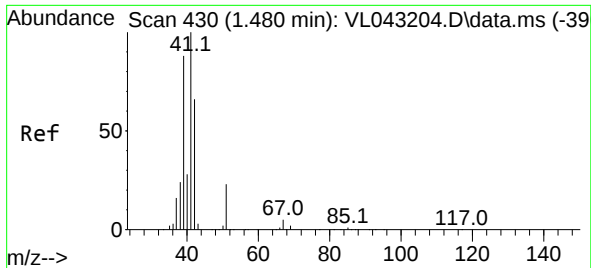
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#4
Chloromethane
Concen: 0.473 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Tgt Ion: 50 Resp: 2297
Ion Ratio Lower Upper
50 100
52 25.9 24.1 36.1





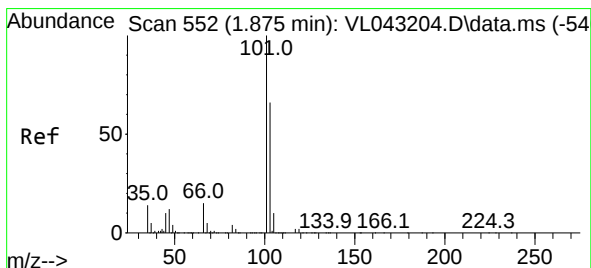
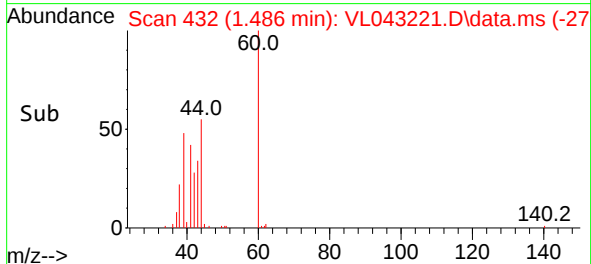
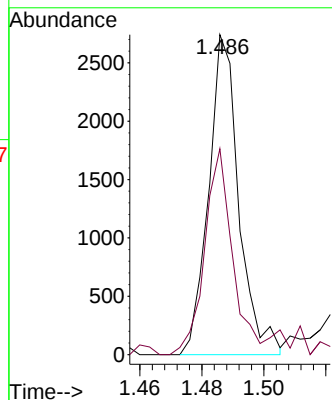
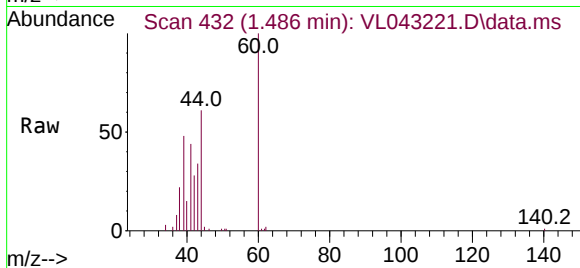
#9
Propene
Concen: 0.341 ppbv
RT: 1.486 min Scan# 431
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 41 Resp: 1850
Ion Ratio Lower Upper
41 100
42 71.0 3.7 5.5

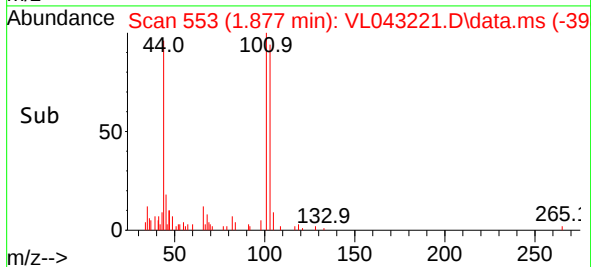
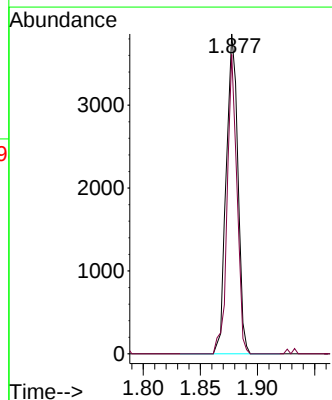
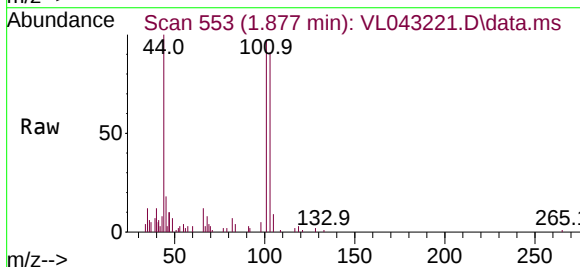
Manual Integrations
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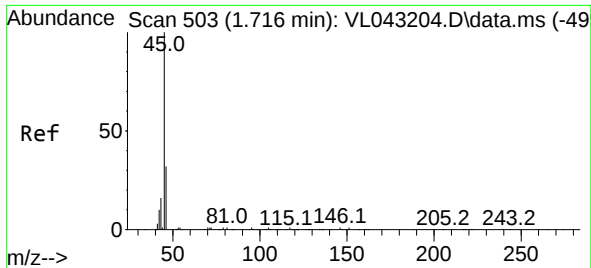
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#11
Trichlorofluoromethane
Concen: 0.216 ppbv m
RT: 1.877 min Scan# 553
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Tgt Ion:101 Resp: 2720
Ion Ratio Lower Upper
101 100
103 93.6 52.6 79.0





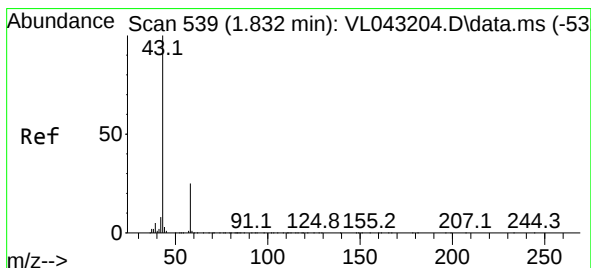
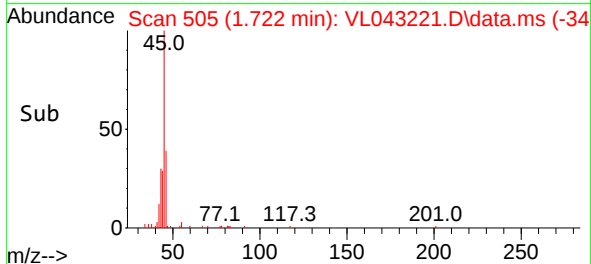
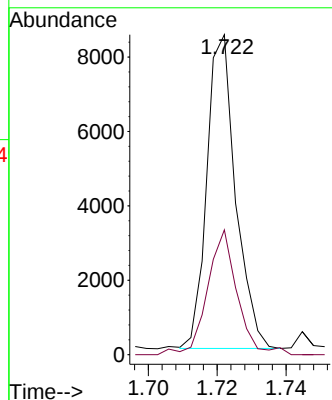
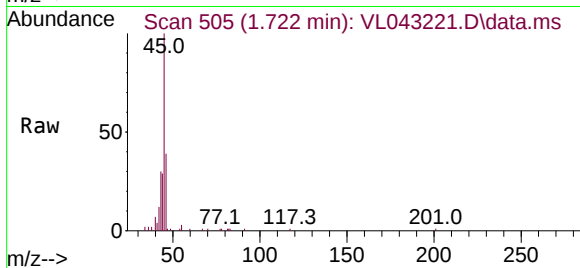
#13
Ethanol
Concen: 2.567 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 4898
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8

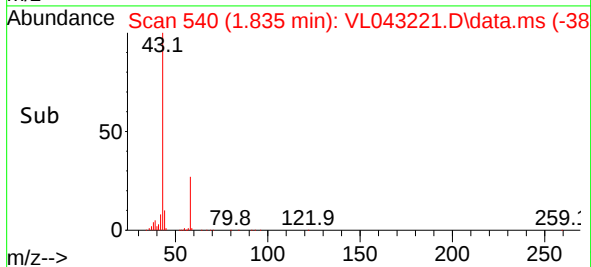
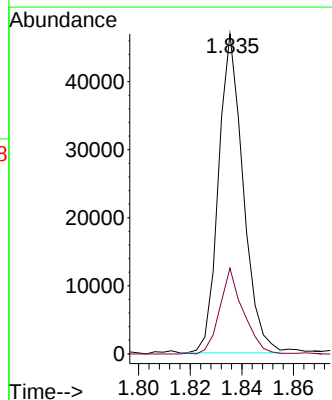
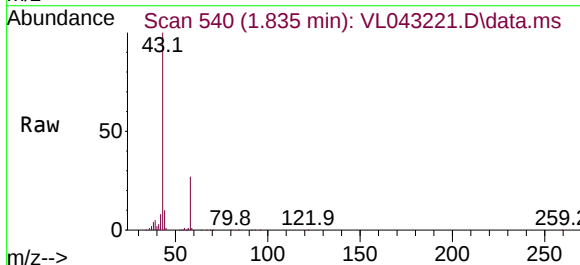
Manual Integrations
APPROVED

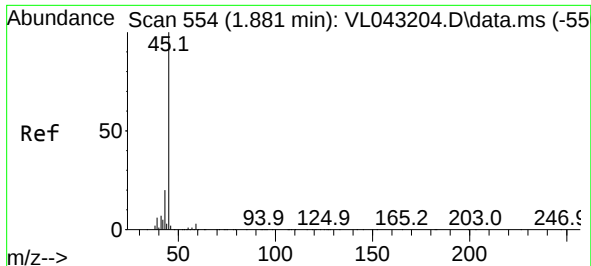
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#15
Acetone
Concen: 2.431 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Tgt Ion: 43 Resp: 31117
Ion Ratio Lower Upper
43 100
58 25.7 20.7 31.1





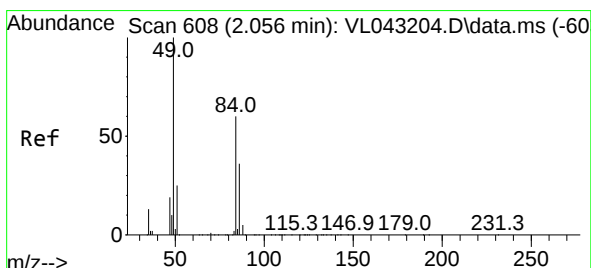
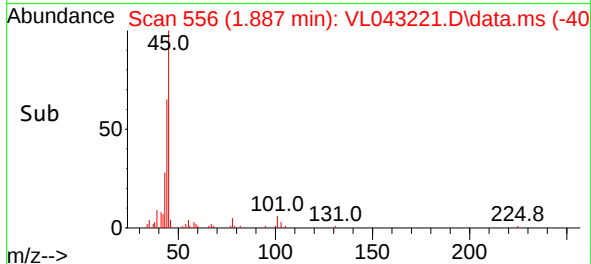
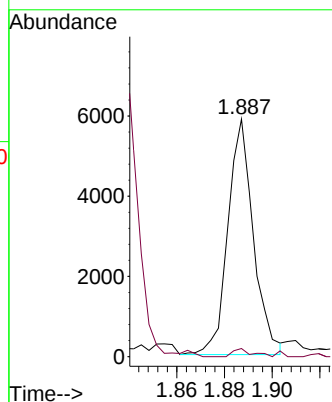
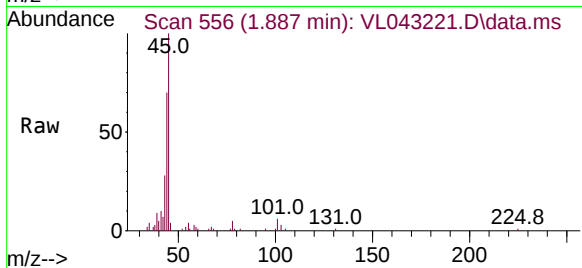
#19
Isopropyl Alcohol
Concen: 0.603 ppbv
RT: 1.887 min Scan# 554
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 4362
Ion Ratio Lower Upper
45 100
58 183.7 31.3 46.9

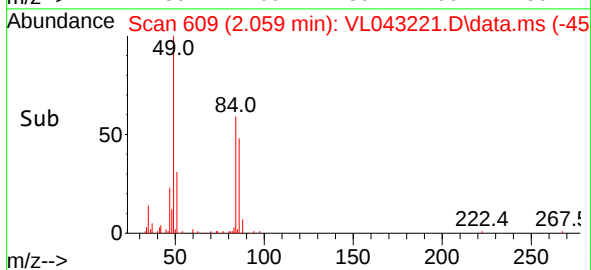
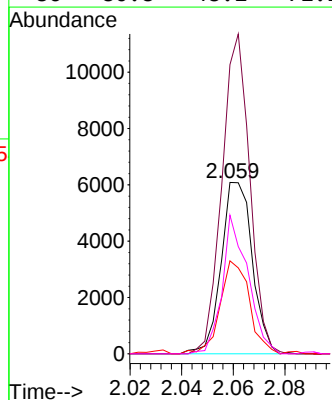
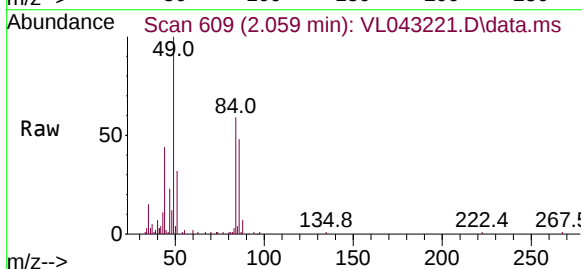
Manual Integrations
APPROVED

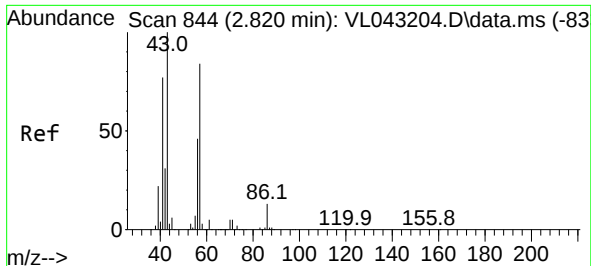
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#20
Methylene Chloride
Concen: 0.619 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

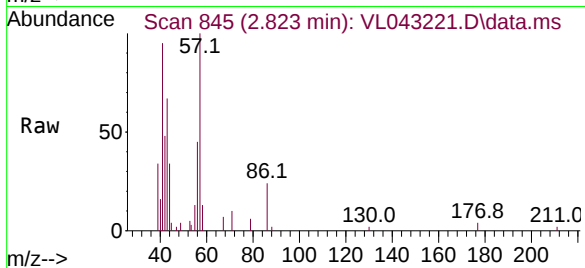
Tgt Ion: 84 Resp: 5113
Ion Ratio Lower Upper
84 100
49 167.3 132.9 199.3
51 54.3 34.8 52.2#
86 80.8 48.2 72.2#





#26
Hexane
Concen: 0.242 ppbv
RT: 2.823 min Scan# 844
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

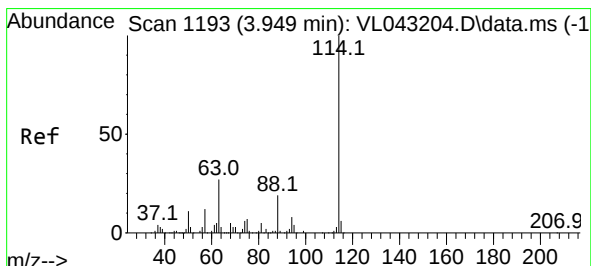
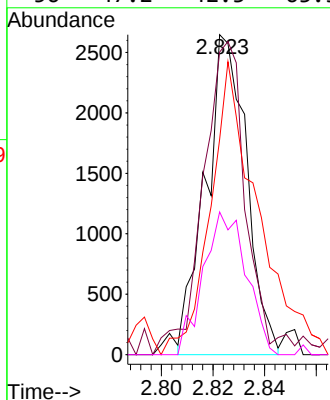
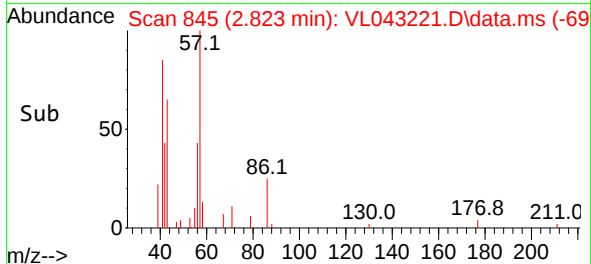
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 57 Resp: 2923
Ion Ratio Lower Upper
57 100
41 106.5 74.6 111.8
43 107.9 179.0 268.4
56 47.2 42.3 63.5

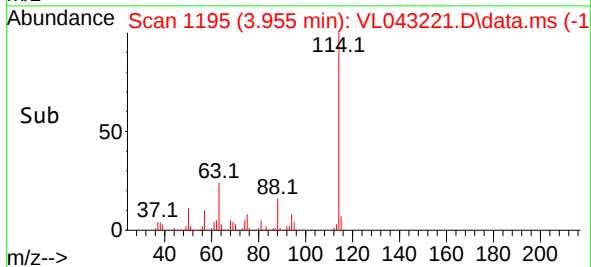
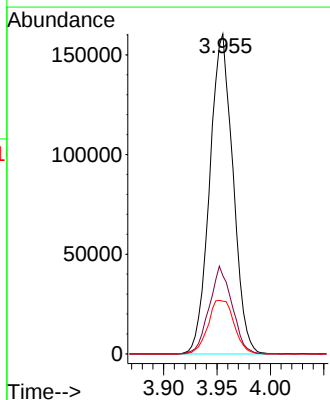
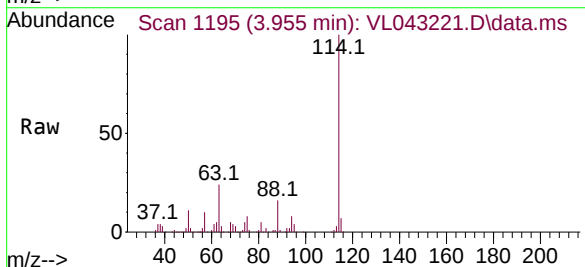
Manual Integrations
APPROVED

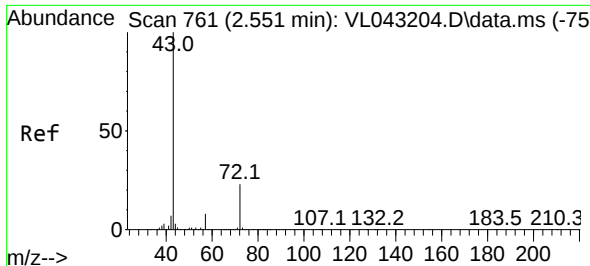
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

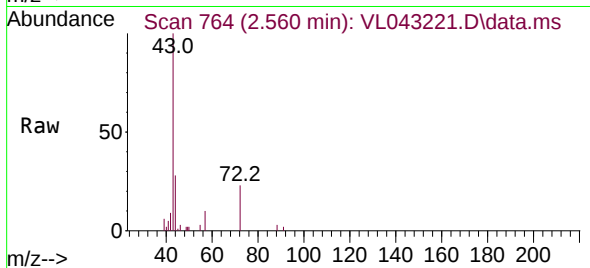
Tgt Ion:114 Resp: 243218
Ion Ratio Lower Upper
114 100
63 26.9 21.0 31.6
88 18.7 14.9 22.3





#34
2-Butanone
Concen: 0.234 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.009 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

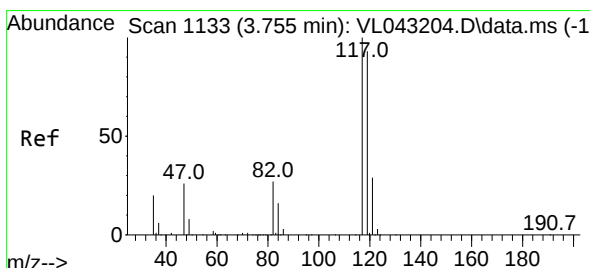
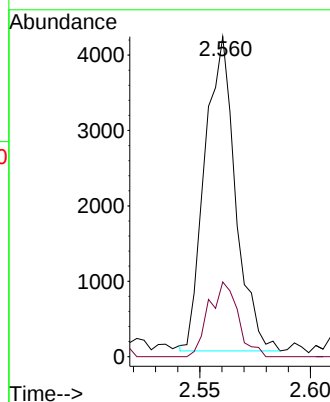
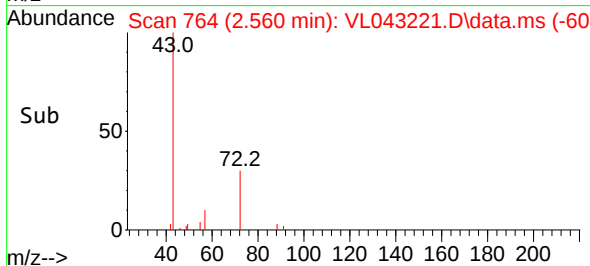
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 43 Resp: 4026
Ion Ratio Lower Upper
43 100
72 22.5 18.1 27.1

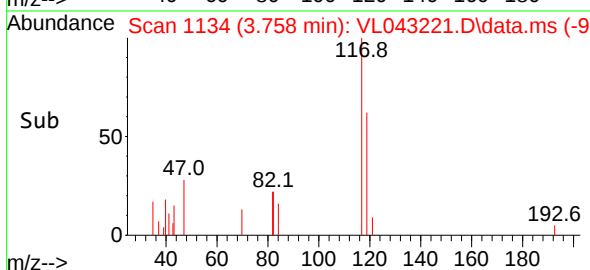
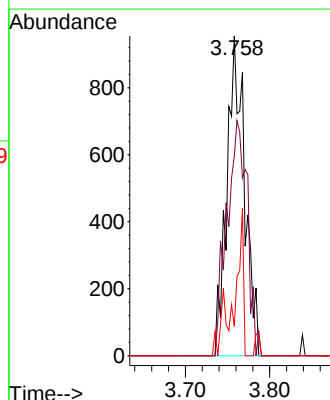
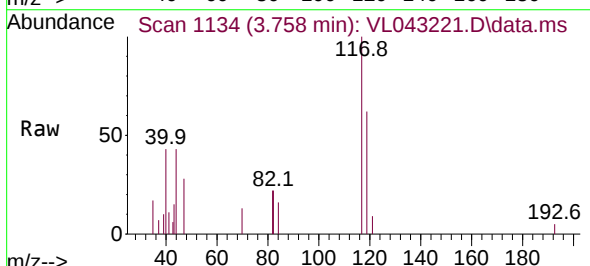
Manual Integrations
APPROVED

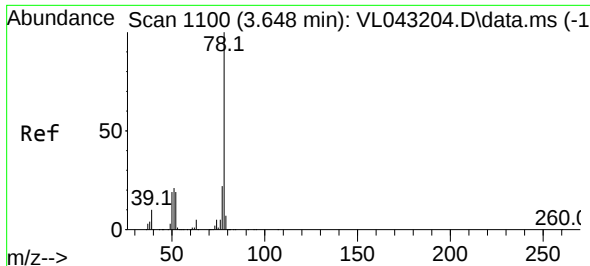
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Tgt Ion:117 Resp: 1391
Ion Ratio Lower Upper
117 100
119 62.4 74.6 112.0#
121 9.2 23.2 34.8#





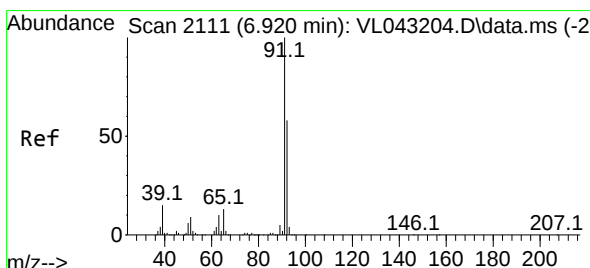
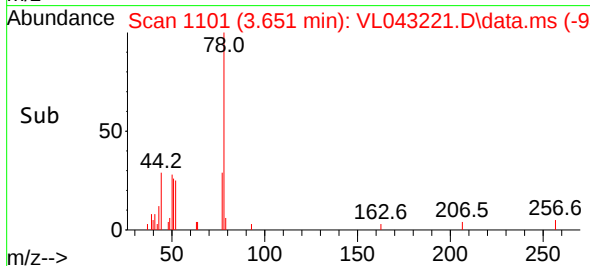
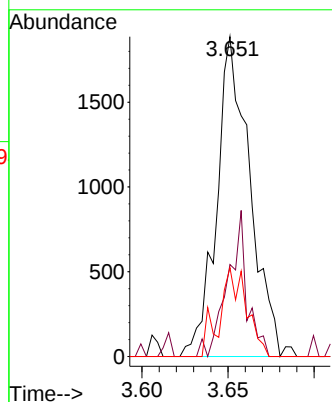
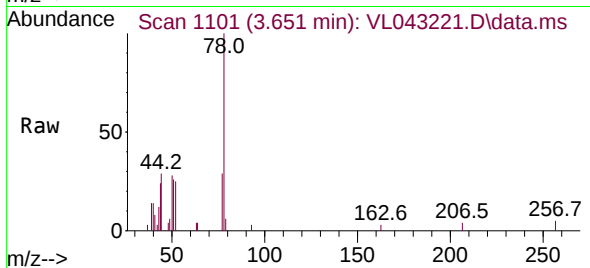
#36
Benzene
Concen: 0.108 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. 0.003 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 78 Resp: 252
Ion Ratio Lower Upper
78 100
77 28.8 17.5 26.3
50 27.8 15.5 23.3

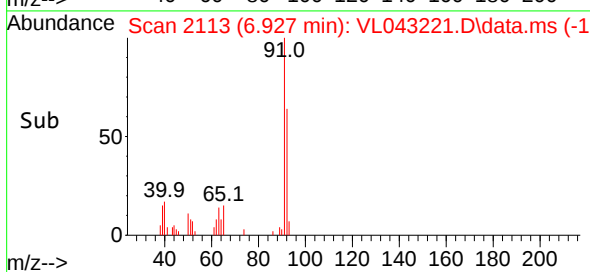
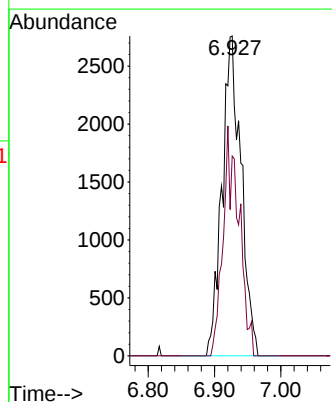
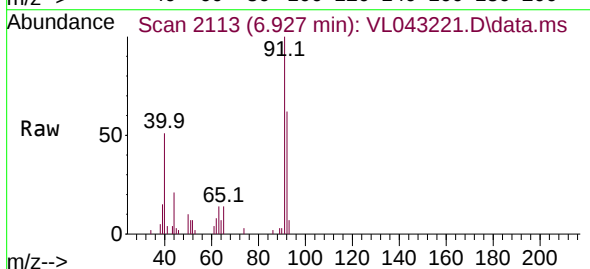
Manual Integrations
APPROVED

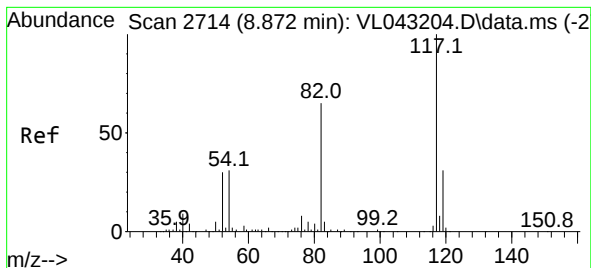
Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#53
Toluene
Concen: 0.199 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL043221.D
Acq: 18 Nov 2025 19:58

Tgt Ion: 91 Resp: 5489
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. 0.003 min

Lab File: VL043221.D

Acq: 18 Nov 2025 19:58

Instrument :

MSVOA_L

ClientSampleId :

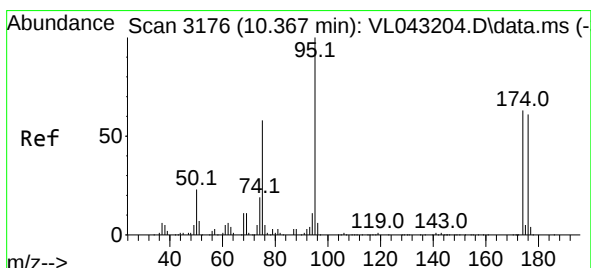
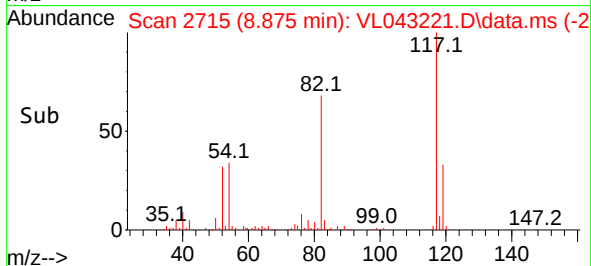
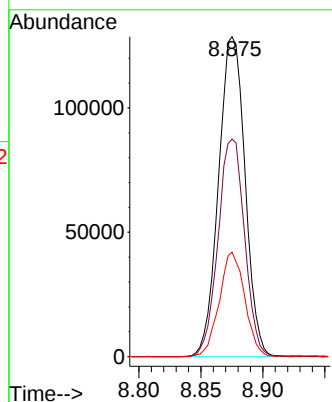
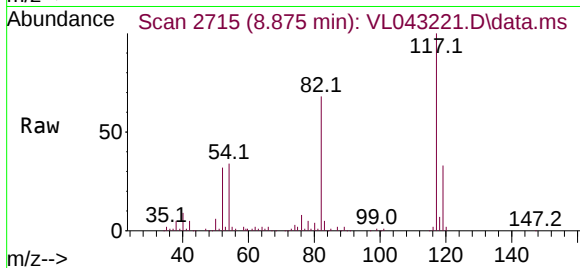
OA1

Tgt Ion:	117	Resp:	19107
Ion Ratio	Lower	Upper	
117	100		
82	68.0	56.1	84.1
119	31.5	25.0	37.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.182 ppbv

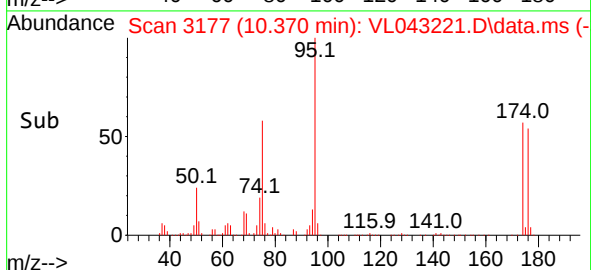
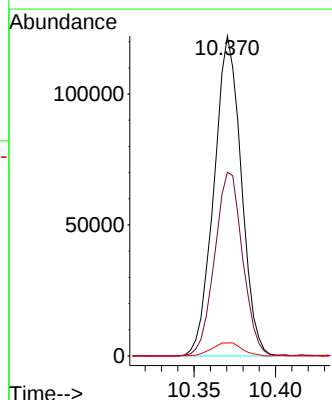
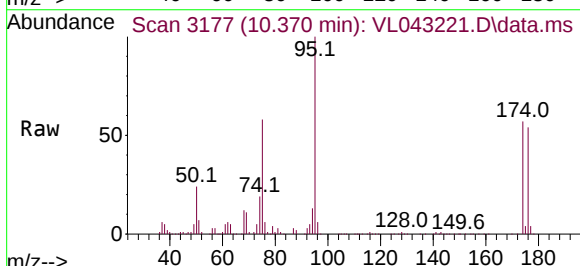
RT: 10.370 min Scan# 3177

Delta R.T. 0.003 min

Lab File: VL043221.D

Acq: 18 Nov 2025 19:58

Tgt Ion:	95	Resp:	142616
Ion Ratio	Lower	Upper	
95	100		
174	59.0	50.2	75.2
175	4.5	4.1	6.1





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>GFEL01</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3650</u>
Instrument ID: <u>MSVOA_L</u>	Calibration Date(s): <u>11/18/2025</u> <u>11/18/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>09:29</u> <u>13:24</u>
GC Column: <u>RTX-1</u> ID: <u>0.32</u> (mm)	

LAB FILE ID:		RRF0.5 = VL043203.D		RRF010 = VL043204.D		RRF002 = VL043205.D		
		RRF001 = VL043206.D		RRF0.1 = VL043208.D		RRF.03 = VL043209.D		
COMPOUND	RRF0.5	RRF010	RRF002	RRF001	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.533	0.486	0.575	0.580	0.655	0.724	0.577	15.3
Heptane	2.106	1.604	1.728	1.804			1.753	12.9
1,1-Dichloroethane	1.050	1.018	1.194	1.173			1.096	7.4
Cyclohexane	1.135	1.024	1.130	1.194			1.101	6.8
cis-1,2-Dichloroethene	1.399	1.240	1.322	1.351			1.306	5.8
1,1,1-Trichloroethane	1.971	1.884	2.033	2.018	2.046	2.116	1.990	4.5
2,2,4-Trimethylpentane	1.746	1.555	1.621	1.765			1.645	6.5
Benzene	0.996	0.905	0.986	1.001			0.958	5.3
Trichloroethene	0.390	0.353	0.371	0.388	0.475	0.293	0.375	14.6
Toluene	1.198	1.075	1.146	1.182			1.134	5.3
Tetrachloroethene	0.344	0.329	0.349	0.362	0.424	0.363	0.356	9.4
Ethyl Benzene	1.927	1.821	2.008	2.038			1.925	5.2
m/p-Xylene	1.618	1.434	1.607	1.611			1.543	6.1
o-Xylene	1.584	1.419	1.659	1.625			1.542	7.4
1,3,5-Trimethylbenzene	1.623	1.456	1.662	1.682			1.575	7.1
1,2,4-Trimethylbenzene	1.796	1.548	1.871	1.844			1.719	9.5
Naphthalene	1.483	1.496	1.860	1.599	1.230		1.527	13.4
1-Bromo-4-Fluorobenzene	0.729	0.735	0.741	0.733	0.725	0.712	0.733	1.9
Hexane	1.374	1.235	1.375	1.424			1.314	8.4

* 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 : VL111825AIR.M

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

Last Update : Wed Nov 19 01:11:25 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL043209.D 0.1 =VL043208.D 0.5 =VL043203.D 1 =VL043206.D 2 =VL043205.D 10 =VL043204.D 15 =VL043210.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.398	1.505	1.476	1.340	1.334	1.410	5.53
3) Chlorodifluoro...			1.545	1.404	1.437	1.317	1.231	1.387	8.60
4) Chloromethane			0.521	0.559	0.568	0.498	0.489	0.527	6.72
5) T Vinyl Chloride	0.724	0.655	0.533	0.580	0.575	0.486	0.483	0.577	15.33
6) T Bromomethane			0.300	0.302	0.286	0.253	0.258	0.280	8.30
7) Chloroethane			0.246	0.248	0.236	0.194	0.199	0.225	11.59
8) T Dichlorotetra...			1.156	1.241	1.262	1.091	1.116	1.173	6.43
9) T Propene			0.677	0.598	0.621	0.501	0.548	0.589	11.44
10) T Heptane			2.106	1.804	1.728	1.604	1.522	1.753	12.87
11) T Trichlorofluor...			1.238	1.515	1.487	1.240	1.352	1.367	9.62
12) T 1,1,2-Trichlor...			1.061	1.142	1.115	0.987	1.029	1.067	5.92
13) Ethanol			0.215	0.231	0.252	0.166	0.172	0.207	17.99
14) T Bromoethene			0.448	0.423	0.436	0.362	0.376	0.409	9.29
15) T Acetone			1.721	1.591	1.519	1.032	1.085	1.389	22.41
16) T 1,3-Butadiene			0.745	0.629	0.626	0.551	0.546	0.619	13.01
17) tert-Butyl alc...			1.784	2.014	1.880	1.705	1.735	1.824	6.87
18) T 1,1-Dichloroet...			0.555	0.530	0.515	0.441	0.443	0.497	10.52
19) T Isopropyl Alcohol			0.848	0.861	0.823	0.684	0.709	0.785	10.51
20) T Methylene Chlo...			0.906	0.710	0.585	0.398	0.403	0.600	35.87
21) T Allyl Chloride			1.139	0.895	0.936	0.849	0.855	0.935	12.75
22) T trans-1,2-Dich...			0.605	0.614	0.599	0.499	0.521	0.568	9.39
23) T Vinyl Acetate			1.885	1.632	1.682	1.622	1.565	1.677	7.36
24) T 1,1-Dichloroet...			1.050	1.173	1.194	1.018	1.044	1.096	7.42
25) T Ethyl Acetate			3.371	3.123	3.074	2.759	2.655	2.996	9.68
26) T Hexane			1.374	1.424	1.375	1.235	1.161	1.314	8.44
27) T Carbon Disulfide			1.303	1.424	1.432	1.257	1.291	1.341	6.03
28) T Methyl tert-Bu...			0.642	0.704	0.674	0.591	0.614	0.645	7.02
29) T Chloroform			1.955	1.898	1.928	1.785	1.770	1.867	4.52
30) T Cyclohexane			1.135	1.194	1.130	1.024	1.024	1.101	6.80
31) T cis-1,2-Dichlo...			1.399	1.351	1.322	1.240	1.217	1.306	5.83
32) T 1,1,1-Trichlor...	2.116	2.046	1.970	2.018	2.033	1.884	1.865	1.990	4.52

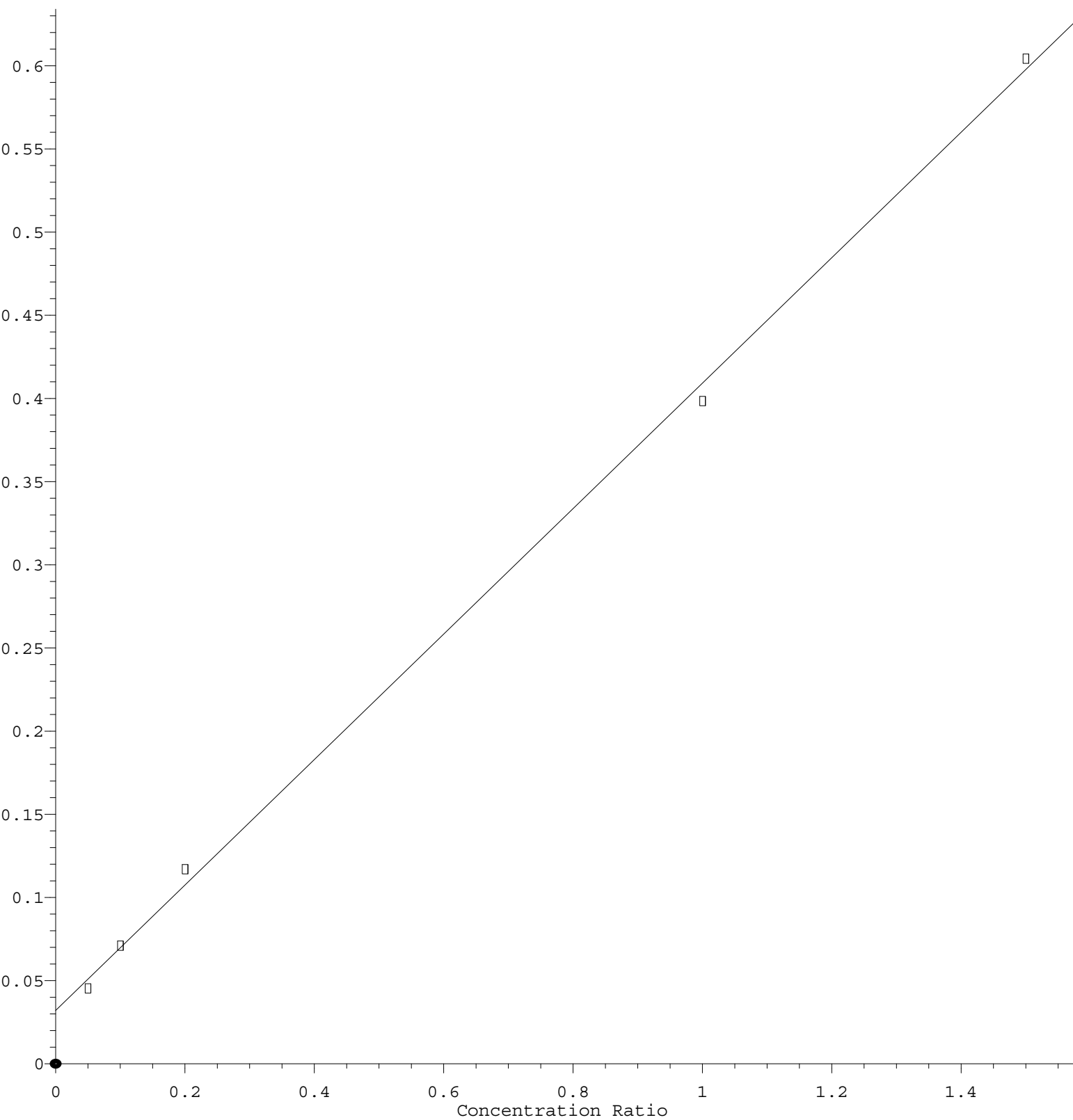
33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.744	0.751	0.736	0.644	0.655	0.706	7.38
35) T Carbon Tetrach...	0.832	0.765	0.779	0.771	0.737	0.708	0.721	0.759	5.51
36) T Benzene			0.996	1.001	0.986	0.905	0.900	0.958	5.28
37) T 1,2-Dichloroet...			0.572	0.580	0.565	0.531	0.553	0.560	3.39
38) T Trichloroethene	0.293	0.475	0.390	0.388	0.371	0.353	0.353	0.375	14.65
39) T 1,2-Dichloropr...			0.372	0.364	0.350	0.335	0.332	0.351	4.97

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL111825AIR.M											
40)	T	1,4-Dioxane			0.180	0.166	0.155	0.142	0.144	0.158	10.04
41)	T	Tetrahydrofuran			0.418	0.401	0.402	0.367	0.360	0.390	6.32
42)	T	Bromodichlorom...			0.782	0.795	0.783	0.745	0.758	0.773	2.63
43)		Methyl Methacr...			0.576	0.532	0.511	0.462	0.462	0.508	9.55
44)	T	2,2,4-Trimethy...			1.746	1.765	1.621	1.555	1.537	1.645	6.47
45)	T	t-1,3-Dichloro...			0.495	0.472	0.489	0.455	0.458	0.474	3.79
46)	T	cis-1,3-Dichlo...			0.599	0.557	0.562	0.534	0.529	0.556	5.00
47)	T	1,1,2-Trichlor...			0.424	0.372	0.378	0.344	0.342	0.372	8.91
48)	T	Dibromochlorom...			0.629	0.666	0.663	0.618	0.621	0.640	3.63
49)	T	Bromoform			0.583	0.569	0.581	0.555	0.545	0.566	2.86
50)	T	4-Methyl-2-Pen...			1.025	1.061	1.027	0.946	0.914	0.994	6.19
51)	T	2-Hexanone			0.782	0.805	0.816	0.734	0.724	0.772	5.37
52)	T	Tetrachloroethene	0.363	0.424	0.344	0.362	0.349	0.329	0.323	0.356	9.37
53)	T	Toluene			1.198	1.182	1.146	1.075	1.069	1.134	5.26
54)	T	1,2-Dibromoethane		0.528	0.587	0.569	0.549	0.525	0.526	0.547	4.79
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.791	0.769	0.761	0.677	0.677	0.735	7.34
57)	T	Chlorobenzene			1.035	1.088	1.089	0.969	0.953	1.027	6.24
58)	T	Ethyl Benzene			1.927	2.038	2.008	1.821	1.830	1.925	5.16
59)	T	m/p-Xylene			1.618	1.611	1.607	1.434	1.446	1.543	6.12
60)	T	o-Xylene			1.584	1.625	1.659	1.419	1.421	1.542	7.42
61)	T	Styrene			0.669	0.690	0.719	0.648	0.647	0.675	4.54
62)		Isopropylbenzene			2.807	2.946	2.945	2.556	2.536	2.758	7.31
63)	T	1,1,2,2-Tetrac...	0.999	1.034	1.016	1.012	1.028	0.891	0.884	0.981	6.58
64)		n-propylbenzene			0.722	0.758	0.757	0.657	0.649	0.709	7.47
65)		tert-Butylbenzene			2.583	2.687	2.646	2.224	2.176	2.463	9.90
66)	T	Benzyl Chloride			0.275	0.251	0.257	0.241	0.225	0.250	7.36
67)		sec-Butylbenzene			3.588	3.728	3.697	3.108	3.070	3.438	9.40
68)	S	1-Bromo-4-Fluo...	0.712	0.725	0.729	0.733	0.741	0.735	0.757	0.733	1.90
69)		p-Isopropyltol...			2.994	3.070	3.197	2.660	2.641	2.912	8.58
70)		n-Butylbenzene			2.676	3.041	3.125	2.639	2.647	2.825	8.39
71)		2-Chlorotoluene			2.198	2.257	2.210	1.960	1.975	2.120	6.65
72)	T	4-Ethyltoluene			1.934	1.948	2.009	1.749	1.747	1.877	6.46
73)	T	1,3,5-Trimethy...			1.623	1.682	1.662	1.456	1.454	1.575	7.09
74)	T	1,2,4-Trimethy...			1.796	1.844	1.871	1.548	1.537	1.719	9.51
75)	T	1,3-Dichlorobe...			1.043	1.053	1.061	0.937	0.922	1.003	6.78
76)	T	1,4-Dichlorobe...			1.056	1.033	1.060	0.940	0.930	1.003	6.34
77)	T	1,2-Dichlorobe...			0.974	1.064	1.050	0.872	0.863	0.965	9.83
78)	T	Hexachloro-1,3...			0.854	0.899	0.920	0.686	0.666	0.805	14.94
79)	T	Naphthalene		1.230	1.483	1.599	1.860	1.496	1.493	1.527	13.35
80)	T	Naphthalene,2-...			0.397	0.323	0.448	0.397	0.439	0.401	12.30
81)	T	1,2,4-Trichlor...			0.549	0.692	0.813	0.678	0.682	0.683	13.72

(#) = Out of Range

Methylene Chloride

Response Ratio



Response = 3.773e-001 * Amt + 3.213e-002
 Coef of Det (r^2) = 0.998825 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL11825AIR.M
 Calibration Table Last Updated: Wed Nov 19 01:11:25 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043203.D
 Acq On : 18 Nov 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:48:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	110490	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	296493	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	247761	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	180529	9.941	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	7723	0.496	ppbv	99
3) Chlorodifluoromethane	1.473	51	8538	0.557	ppbv #	82
4) Chloromethane	1.531	50	2881	0.494	ppbv	94
5) Vinyl Chloride	1.580	62	2947	0.462	ppbv #	87
6) Bromomethane	1.667	94	1656	0.536	ppbv	97
7) Chloroethane	1.703	64	1357	0.547	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	6386	0.493	ppbv	100
9) Propene	1.483	41	3739	0.526	ppbv #	1
10) Heptane	4.972	43	11637m	0.597	ppbv	
11) Trichlorofluoromethane	1.878	101	6841	0.453	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.140	101	5863	0.497	ppbv	99
13) Ethanol	1.719	45	1190	0.520	ppbv	64
14) Bromoethene	1.781	108	2476	0.548	ppbv #	75
15) Acetone	1.836	43	9506	0.619	ppbv #	88
16) 1,3-Butadiene	1.606	39	4115	0.601	ppbv	95
17) tert-Butyl alcohol	2.043	59	9854	0.489	ppbv #	68
18) 1,1-Dichloroethene	2.033	96	3068	0.559	ppbv	96
19) Isopropyl Alcohol	1.887	45	4687	0.540	ppbv #	51
20) Methylene Chloride	2.059	84	5006	0.349	ppbv	92
21) Allyl Chloride	2.095	41	6291	0.609	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	3343	0.533	ppbv	80
23) Vinyl Acetate	2.464	43	10414	0.562	ppbv #	92
24) 1,1-Dichloroethane	2.409	63	5803	0.479	ppbv #	96
25) Ethyl Acetate	2.839	43	18625m	0.562	ppbv	
26) Hexane	2.823	57	7589	0.523	ppbv #	91
27) Carbon Disulfide	2.150	76	7198	0.486	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	3545	0.498	ppbv #	15
29) Chloroform	2.849	83	10800	0.523	ppbv	95
30) Cyclohexane	3.849	84	6271	0.515	ppbv	85
31) cis-1,2-Dichloroethene	2.719	61	7728	0.536	ppbv	87
32) 1,1,1-Trichloroethane	3.363	97	10886	0.490	ppbv	98
34) 2-Butanone	2.557	43	11026	0.527	ppbv	95
35) Carbon Tetrachloride	3.761	117	11551	0.513	ppbv	94
36) Benzene	3.655	78	14759	0.520	ppbv #	91
37) 1,2-Dichloroethane	3.218	62	8477	0.510	ppbv #	93
38) Trichloroethene	4.542	130	5775	0.519	ppbv #	87
39) 1,2-Dichloropropane	4.312	63	5510	0.530	ppbv #	80
40) 1,4-Dioxane	4.597	88	2675m	0.573	ppbv	
41) Tetrahydrofuran	3.059	42	6193	0.536	ppbv	95
42) Bromodichloromethane	4.490	83	11597	0.506	ppbv #	84
43) Methyl Methacrylate	4.881	69	8534m	0.566	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	25890	0.531	ppbv	95
45) t-1,3-Dichloropropene	6.412	75	7343	0.523	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043203.D
 Acq On : 18 Nov 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:48:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	8886m	0.539	ppbv	
47) 1,1,2-Trichloroethane	6.581	97	6280m	0.567	ppbv	
48) Dibromochloromethane	7.380	129	9327	0.492	ppbv	97
49) Bromoform	9.481	173	8636	0.514	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	15190	0.515	ppbv	92
51) 2-Hexanone	7.442	43	11594	0.506	ppbv #	93
52) Tetrachloroethene	8.218	164	5097	0.483	ppbv #	82
53) Toluene	6.924	91	17755m	0.525	ppbv	
54) 1,2-Dibromoethane	7.649	107	8708	0.537	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.917	131	9793m	0.538	ppbv	
57) Chlorobenzene	8.917	112	12818	0.504	ppbv	98
58) Ethyl Benzene	9.351	91	23866	0.500	ppbv	96
59) m/p-Xylene	9.526	91	40076m	1.044	ppbv	
60) o-Xylene	9.956	91	19621	0.514	ppbv	100
61) Styrene	9.869	104	8287	0.496	ppbv	96
62) Isopropylbenzene	10.536	105	34773	0.509	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	12591	0.519	ppbv	100
64) n-propylbenzene	10.986	120	8945	0.509	ppbv	100
65) tert-Butylbenzene	11.526	119	31998	0.524	ppbv	99
66) Benzyl Chloride	11.610	91	3403	0.550	ppbv	98
67) sec-Butylbenzene	11.766	105	44448	0.522	ppbv	97
69) p-Isopropyltoluene	11.921	119	37087	0.514	ppbv	100
70) n-Butylbenzene	12.277	91	33153	0.474	ppbv	94
71) 2-Chlorotoluene	10.895	91	27224	0.518	ppbv	99
72) 4-Ethyltoluene	11.122	105	23963	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.199	105	20104	0.515	ppbv	99
74) 1,2,4-Trimethylbenzene	11.533	105	22254	0.522	ppbv	91
75) 1,3-Dichlorobenzene	11.604	146	12926	0.520	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	13076	0.526	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	12069	0.505	ppbv	97
78) Hexachloro-1,3-Butadiene	13.879	225	10578	0.530	ppbv	98
79) Naphthalene	13.513	128	18377	0.486	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	4917	0.495	ppbv	91
81) 1,2,4-Trichlorobenzene	13.439	180	6798	0.402	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043204.D
 Acq On : 18 Nov 2025 10:02
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:49:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	105095	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	283830	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	234772	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 172524 10.025 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	140789	9.498	ppbv	100
3) Chlorodifluoromethane	1.473	51	138443	9.497	ppbv	100
4) Chloromethane	1.531	50	52372	9.450	ppbv	100
5) Vinyl Chloride	1.577	62	51045	8.422	ppbv	100
6) Bromomethane	1.664	94	26542	9.034	ppbv	100
7) Chloroethane	1.700	64	20375	8.632	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	114670	9.300	ppbv	100
9) Propene	1.480	41	52671	7.789	ppbv #	1
10) Heptane	4.965	43	168611	9.090	ppbv	100
11) Trichlorofluoromethane	1.875	101	130362	9.077	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	103679	9.247	ppbv	100
13) Ethanol	1.716	45	17464	8.023	ppbv	100
14) Bromoethene	1.777	108	38037	8.849	ppbv	100
15) Acetone	1.832	43	108422	7.426	ppbv	100
16) 1,3-Butadiene	1.606	39	57871	8.890	ppbv	100
17) tert-Butyl alcohol	2.036	59	179201	9.350	ppbv	100
18) 1,1-Dichloroethene	2.030	96	46313	8.871	ppbv	100
19) Isopropyl Alcohol	1.881	45	71862	8.710	ppbv	100
20) Methylene Chloride	2.056	84	41868	9.708	ppbv	100
21) Allyl Chloride	2.091	41	89266	9.087	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	52470	8.793	ppbv	100
23) Vinyl Acetate	2.457	43	170459	9.670	ppbv	100
24) 1,1-Dichloroethane	2.405	63	106970	9.287	ppbv	100
25) Ethyl Acetate	2.829	43	289921	9.190	ppbv	100
26) Hexane	2.820	57	129809	9.402	ppbv	100
27) Carbon Disulfide	2.146	76	132086	9.371	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	62115	9.165	ppbv	100
29) Chloroform	2.842	83	187620	9.561	ppbv	100
30) Cyclohexane	3.846	84	107621	9.297	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	130357	9.499	ppbv	100
32) 1,1,1-Trichloroethane	3.360	97	198036	9.381	ppbv	100
34) 2-Butanone	2.551	43	182749	9.121	ppbv	100
35) Carbon Tetrachloride	3.755	117	200831	9.322	ppbv	100
36) Benzene	3.648	78	256954	9.453	ppbv	100
37) 1,2-Dichloroethane	3.211	62	150769	9.483	ppbv	100
38) Trichloroethene	4.535	130	100136	9.398	ppbv	100
39) 1,2-Dichloropropane	4.302	63	95097	9.559	ppbv	100
40) 1,4-Dioxane	4.567	88	40441	9.043	ppbv #	100
41) Tetrahydrofuran	3.046	42	104294	9.426	ppbv	100
42) Bromodichloromethane	4.477	83	211504	9.643	ppbv	100
43) Methyl Methacrylate	4.865	69	131003	9.080	ppbv	100
44) 2,2,4-Trimethylpentane	4.626	57	441234	9.451	ppbv	100
45) t-1,3-Dichloropropene	6.399	75	129122	9.601	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043204.D
 Acq On : 18 Nov 2025 10:02
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:49:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.584	75	151655	9.603	ppbv	100
47) 1,1,2-Trichloroethane	6.564	97	97512	9.193	ppbv	100
48) Dibromochloromethane	7.377	129	175529	9.670	ppbv	100
49) Bromoform	9.474	173	157563	9.800	ppbv	100
50) 4-Methyl-2-Pentanone	5.733	43	268369	9.509	ppbv	100
51) 2-Hexanone	7.419	43	208268	9.503	ppbv #	100
52) Tetrachloroethene	8.212	164	93518	9.249	ppbv	100
53) Toluene	6.920	91	305169	9.422	ppbv	100
54) 1,2-Dibromoethane	7.639	107	148973	9.588	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.914	131	158856	9.207	ppbv	100
57) Chlorobenzene	8.911	112	227490	9.438	ppbv	100
58) Ethyl Benzene	9.345	91	427530	9.461	ppbv	100
59) m/p-Xylene	9.542	91	673371m	18.519	ppbv	
60) o-Xylene	9.956	91	333044	9.202	ppbv	100
61) Styrene	9.863	104	152172	9.607	ppbv	100
62) Isopropylbenzene	10.533	105	600155	9.269	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	209272	9.109	ppbv	100
64) n-propylbenzene	10.982	120	154239	9.271	ppbv	100
65) tert-Butylbenzene	11.523	119	522106	9.029	ppbv	100
66) Benzyl Chloride	11.607	91	56620	9.649	ppbv	100
67) sec-Butylbenzene	11.762	105	729573	9.039	ppbv	100
69) p-Isopropyltoluene	11.918	119	624586	9.135	ppbv	100
70) n-Butylbenzene	12.274	91	619610	9.341	ppbv	100
71) 2-Chlorotoluene	10.895	91	460118	9.245	ppbv	100
72) 4-Ethyltoluene	11.118	105	410587	9.316	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	341900	9.244	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	363476	9.005	ppbv	100
75) 1,3-Dichlorobenzene	11.601	146	219894	9.335	ppbv	100
76) 1,4-Dichlorobenzene	11.665	146	220576	9.363	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	204826	9.044	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	161034	8.520	ppbv	100
79) Naphthalene	13.507	128	351148	9.795	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	93113	9.895	ppbv	100
81) 1,2,4-Trichlorobenzene	13.436	180	159091	9.923	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043205.D
 Acq On : 18 Nov 2025 10:37
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:50:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	104644	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	284629	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	230646	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 171009 10.115 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	30881	2.092	ppbv	98
3) Chlorodifluoromethane	1.476	51	30069	2.072	ppbv	98
4) Chloromethane	1.534	50	11890	2.155	ppbv	96
5) Vinyl Chloride	1.580	62	12040	1.995	ppbv	96
6) Bromomethane	1.670	94	5981	2.044	ppbv	99
7) Chloroethane	1.706	64	4943	2.103	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	26409	2.151	ppbv	98
9) Propene	1.486	41	12993	1.930	ppbv #	1
10) Heptane	4.972	43	36171m	1.958	ppbv	
11) Trichlorofluoromethane	1.878	101	31124	2.177	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	23336	2.090	ppbv	100
13) Ethanol	1.722	45	5266	2.430	ppbv	86
14) Bromoethene	1.784	108	9129	2.133	ppbv	95
15) Acetone	1.835	43	31785	2.186	ppbv	91
16) 1,3-Butadiene	1.609	39	13101	2.021	ppbv	89
17) tert-Butyl alcohol	2.039	59	39348	2.062	ppbv	95
18) 1,1-Dichloroethene	2.036	96	10780	2.074	ppbv	94
19) Isopropyl Alcohol	1.887	45	17229	2.097	ppbv #	71
20) Methylene Chloride	2.062	84	12238	2.248	ppbv	96
21) Allyl Chloride	2.098	41	19580	2.002	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	12537	2.110	ppbv	94
23) Vinyl Acetate	2.460	43	35205	2.006	ppbv #	97
24) 1,1-Dichloroethane	2.408	63	24987	2.179	ppbv	99
25) Ethyl Acetate	2.832	43	64343	2.048	ppbv	99
26) Hexane	2.826	57	28776	2.093	ppbv	97
27) Carbon Disulfide	2.149	76	29964	2.135	ppbv #	91
28) Methyl tert-Butyl Ether	2.438	73	14101	2.090	ppbv #	85
29) Chloroform	2.849	83	40355	2.065	ppbv	98
30) Cyclohexane	3.855	84	23659	2.053	ppbv	98
31) cis-1,2-Dichloroethene	2.722	61	27663	2.024	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	42547	2.024	ppbv	99
34) 2-Butanone	2.557	43	41884	2.085	ppbv	99
35) Carbon Tetrachloride	3.765	117	41949	1.942	ppbv	96
36) Benzene	3.654	78	56141m	2.060	ppbv	
37) 1,2-Dichloroethane	3.218	62	32188	2.019	ppbv	100
38) Trichloroethene	4.548	130	21105m	1.975	ppbv	
39) 1,2-Dichloropropane	4.312	63	19913	1.996	ppbv	93
40) 1,4-Dioxane	4.580	88	8829m	1.969	ppbv	
41) Tetrahydrofuran	3.056	42	22912	2.065	ppbv	99
42) Bromodichloromethane	4.490	83	44584	2.027	ppbv	98
43) Methyl Methacrylate	4.875	69	29071	2.009	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	92261	1.971	ppbv	96
45) t-1,3-Dichloropropene	6.406	75	27833m	2.064	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043205.D
 Acq On : 18 Nov 2025 10:37
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:50:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	31986	2.020	ppbv	91
47) 1,1,2-Trichloroethane	6.577	97	21542m	2.025	ppbv	
48) Dibromochloromethane	7.386	129	37758m	2.074	ppbv	
49) Bromoform	9.480	173	33057	2.050	ppbv	98
50) 4-Methyl-2-Pentanone	5.745	43	58461	2.066	ppbv	98
51) 2-Hexanone	7.432	43	46444	2.113	ppbv #	99
52) Tetrachloroethene	8.218	164	19856	1.958	ppbv	96
53) Toluene	6.927	91	65238	2.008	ppbv	97
54) 1,2-Dibromoethane	7.648	107	31266	2.007	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	35099	2.071	ppbv	99
57) Chlorobenzene	8.917	112	50228	2.121	ppbv	97
58) Ethyl Benzene	9.351	91	92649	2.087	ppbv	98
59) m/p-Xylene	9.529	91	148300m	4.151	ppbv	
60) o-Xylene	9.959	91	76540	2.153	ppbv	100
61) Styrene	9.866	104	33188	2.133	ppbv	98
62) Isopropylbenzene	10.536	105	135853	2.136	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.963	83	47439	2.102	ppbv	99
64) n-propylbenzene	10.985	120	34915	2.136	ppbv	99
65) tert-Butylbenzene	11.529	119	122064	2.149	ppbv	99
66) Benzyl Chloride	11.610	91	11870	2.059	ppbv	99
67) sec-Butylbenzene	11.765	105	170529	2.151	ppbv	100
69) p-Isopropyltoluene	11.921	119	147482	2.195	ppbv	98
70) n-Butylbenzene	12.280	91	144148	2.212	ppbv	99
71) 2-Chlorotoluene	10.898	91	101951	2.085	ppbv	100
72) 4-Ethyltoluene	11.121	105	92654	2.140	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	76655	2.110	ppbv	96
74) 1,2,4-Trimethylbenzene	11.532	105	86286	2.176	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	48961	2.116	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	48881	2.112	ppbv	98
77) 1,2-Dichlorobenzene	11.944	146	48431	2.177	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	42456	2.287	ppbv	99
79) Naphthalene	13.510	128	85788	2.436	ppbv	97
80) Naphthalene,2-methyl-	14.458	142	20685	2.237	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	37521	2.382	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043206.D
 Acq On : 18 Nov 2025 11:10
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:51:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	102795	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	278732	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	227998	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 167061 9.996 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	15474	1.067	ppbv	100
3) Chlorodifluoromethane	1.476	51	14437	1.013	ppbv #	92
4) Chloromethane	1.531	50	5751	1.061	ppbv	92
5) Vinyl Chloride	1.580	62	5967	1.007	ppbv	95
6) Bromomethane	1.667	94	3104	1.080	ppbv	94
7) Chloroethane	1.706	64	2550	1.104	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	12759	1.058	ppbv	98
9) Propene	1.483	41	6147	0.929	ppbv #	1
10) Heptane	4.972	43	18544	1.022	ppbv	100
11) Trichlorofluoromethane	1.877	101	15571	1.108	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	11743	1.071	ppbv	99
13) Ethanol	1.719	45	2373	1.115	ppbv	67
14) Bromoethene	1.780	108	4345	1.033	ppbv #	91
15) Acetone	1.835	43	16353	1.145	ppbv	90
16) 1,3-Butadiene	1.609	39	6469	1.016	ppbv	96
17) tert-Butyl alcohol	2.039	59	20703	1.104	ppbv #	92
18) 1,1-Dichloroethene	2.033	96	5447	1.067	ppbv	97
19) Isopropyl Alcohol	1.884	45	8849	1.097	ppbv #	43
20) Methylene Chloride	2.059	84	7297	1.030	ppbv	85
21) Allyl Chloride	2.094	41	9198	0.957	ppbv #	84
22) trans-1,2-Dichloroethene	2.340	96	6313	1.082	ppbv	94
23) Vinyl Acetate	2.460	43	16779	0.973	ppbv	98
24) 1,1-Dichloroethane	2.405	63	12062	1.071	ppbv	94
25) Ethyl Acetate	2.832	43	32108	1.041	ppbv	98
26) Hexane	2.819	57	14639	1.084	ppbv	99
27) Carbon Disulfide	2.149	76	14637	1.062	ppbv #	30
28) Methyl tert-Butyl Ether	2.441	73	7236	1.092	ppbv #	83
29) Chloroform	2.845	83	19509	1.016	ppbv	91
30) Cyclohexane	3.852	84	12269	1.084	ppbv	96
31) cis-1,2-Dichloroethene	2.716	61	13889	1.035	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	20745	1.005	ppbv	99
34) 2-Butanone	2.554	43	20940	1.064	ppbv	96
35) Carbon Tetrachloride	3.758	117	21497	1.016	ppbv	96
36) Benzene	3.648	78	27911	1.046	ppbv	99
37) 1,2-Dichloroethane	3.214	62	16159	1.035	ppbv	99
38) Trichloroethene	4.538	130	10809m	1.033	ppbv	
39) 1,2-Dichloropropane	4.311	63	10147	1.039	ppbv	91
40) 1,4-Dioxane	4.577	88	4616m	1.051	ppbv	
41) Tetrahydrofuran	3.052	42	11176	1.029	ppbv	96
42) Bromodichloromethane	4.480	83	22150	1.028	ppbv #	98
43) Methyl Methacrylate	4.871	69	14821	1.046	ppbv	94
44) 2,2,4-Trimethylpentane	4.632	57	49203m	1.073	ppbv	
45) t-1,3-Dichloropropene	6.402	75	13149m	0.996	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043206.D
 Acq On : 18 Nov 2025 11:10
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:51:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	15527	1.001	ppbv #	95
47) 1,1,2-Trichloroethane	6.577	97	10369	0.995	ppbv #	85
48) Dibromochloromethane	7.377	129	18560	1.041	ppbv	93
49) Bromoform	9.477	173	15858	1.004	ppbv	98
50) 4-Methyl-2-Pentanone	5.745	43	29560	1.067	ppbv	99
51) 2-Hexanone	7.428	43	22438	1.043	ppbv #	98
52) Tetrachloroethene	8.215	164	10080	1.015	ppbv	90
53) Toluene	6.923	91	32951	1.036	ppbv	100
54) 1,2-Dibromoethane	7.645	107	15865	1.040	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.917	131	17535	1.046	ppbv	99
57) Chlorobenzene	8.914	112	24806	1.060	ppbv	98
58) Ethyl Benzene	9.344	91	46455	1.059	ppbv	96
59) m/p-Xylene	9.545	91	73461m	2.080	ppbv	
60) o-Xylene	9.956	91	37054	1.054	ppbv	97
61) Styrene	9.866	104	15730	1.023	ppbv	95
62) Isopropylbenzene	10.532	105	67163	1.068	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.956	83	23083	1.035	ppbv	97
64) n-propylbenzene	10.985	120	17289	1.070	ppbv	100
65) tert-Butylbenzene	11.526	119	61258	1.091	ppbv	99
66) Benzyl Chloride	11.610	91	5729	1.005	ppbv	96
67) sec-Butylbenzene	11.762	105	84989	1.084	ppbv	99
69) p-Isopropyltoluene	11.921	119	69993	1.054	ppbv	99
70) n-Butylbenzene	12.277	91	69323	1.076	ppbv	99
71) 2-Chlorotoluene	10.895	91	51452	1.065	ppbv	100
72) 4-Ethyltoluene	11.118	105	44403	1.037	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	38350	1.068	ppbv	91
74) 1,2,4-Trimethylbenzene	11.532	105	42051	1.073	ppbv #	81
75) 1,3-Dichlorobenzene	11.600	146	24011	1.050	ppbv	98
76) 1,4-Dichlorobenzene	11.665	146	23543	1.029	ppbv	97
77) 1,2-Dichlorobenzene	11.940	146	24248	1.103	ppbv	98
78) Hexachloro-1,3-Butadiene	13.879	225	20489	1.116	ppbv	99
79) Naphthalene	13.507	128	36462	1.047	ppbv	95
80) Naphthalene,2-methyl-	14.455	142	7375	0.807	ppbv	95
81) 1,2,4-Trichlorobenzene	13.436	180	15785	1.014	ppbv	98

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

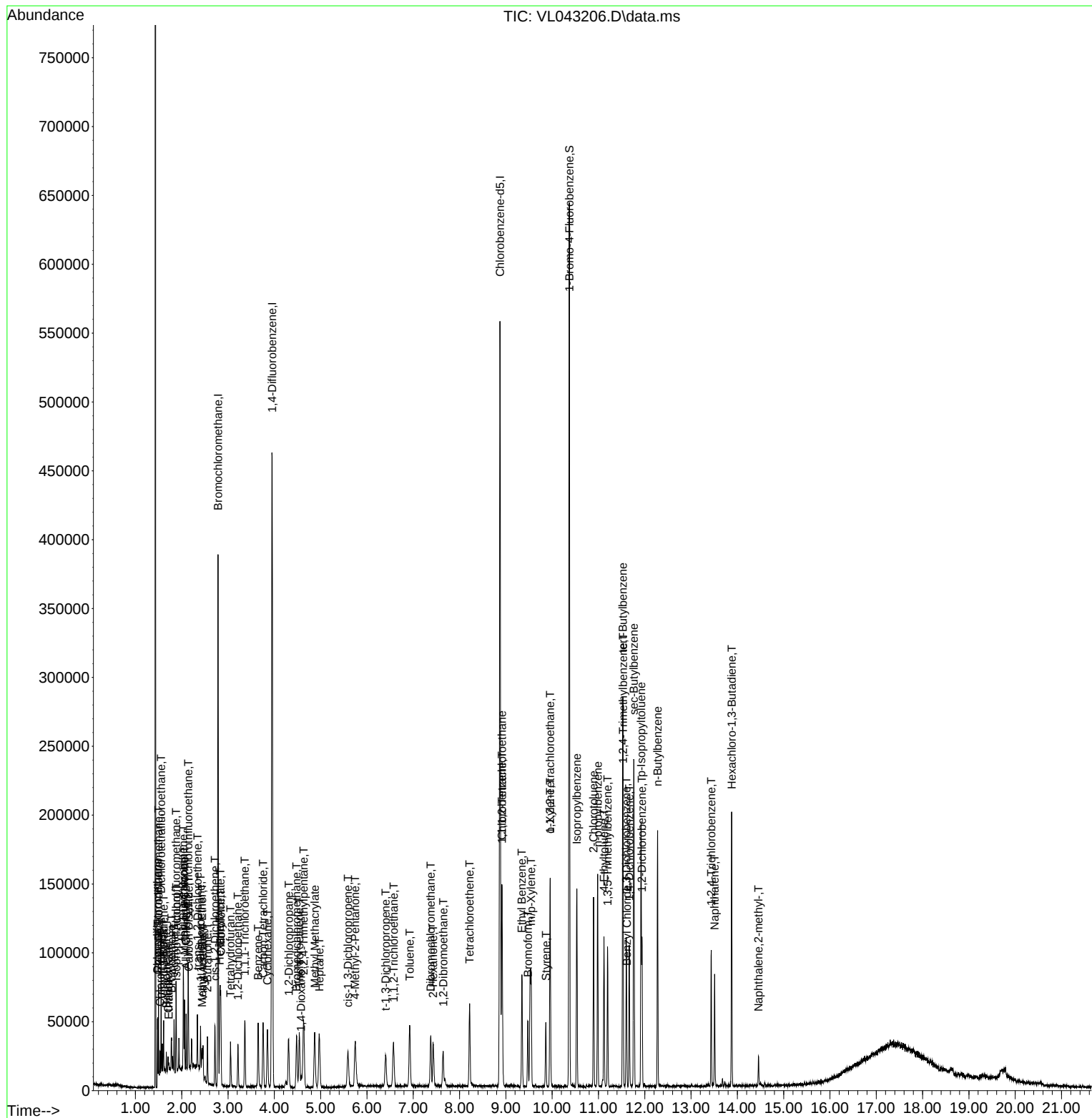
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043206.D
 Acq On : 18 Nov 2025 11:10
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Quant Time: Nov 19 00:51:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
 QLast Update : Wed Nov 19 00:48:15 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/19/2025
 Supervised By : Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043208.D
 Acq On : 18 Nov 2025 12:16
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:51:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Nov 19 00:48:15 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	101366	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	273996	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	222034	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	160968	9.890	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.580	62	664	0.114	ppbv	97
32) 1,1,1-Trichloroethane	3.360	97	2074m	0.102	ppbv	
35) Carbon Tetrachloride	3.761	117	2097m	0.101	ppbv	
38) Trichloroethene	4.541	130	1302m	0.127	ppbv	
52) Tetrachloroethene	8.218	164	1161m	0.119	ppbv	
54) 1,2-Dibromoethane	7.648	107	1446m	0.096	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.953	83	2296m	0.106	ppbv	
79) Naphthalene	13.510	128	2732m	0.081	ppbv	

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

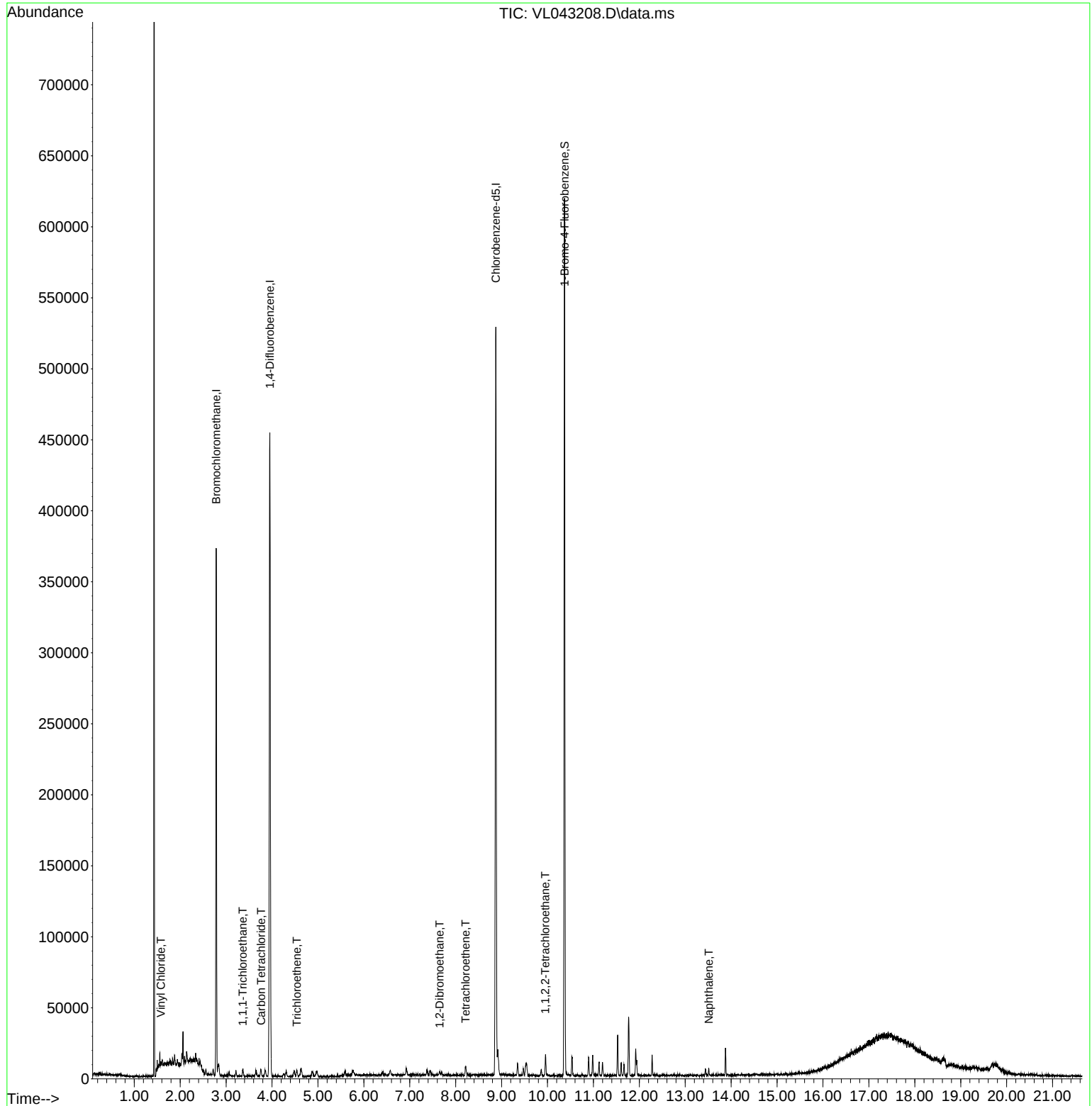
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043208.D
Acq On : 18 Nov 2025 12:16
Operator : SY/MD
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Nov 19 00:51:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
Supervised By :Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043209.D
 Acq On : 18 Nov 2025 12:49
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:52:39 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	98952	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	266012	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	213547	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	152015	9.712	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	215m	0.038	ppbv	
32) 1,1,1-Trichloroethane	3.357	97	628m	0.032	ppbv	
35) Carbon Tetrachloride	3.758	117	664m	0.033	ppbv	
52) Tetrachloroethene	8.222	164	290m	0.031	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	640m	0.031	ppbv	

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

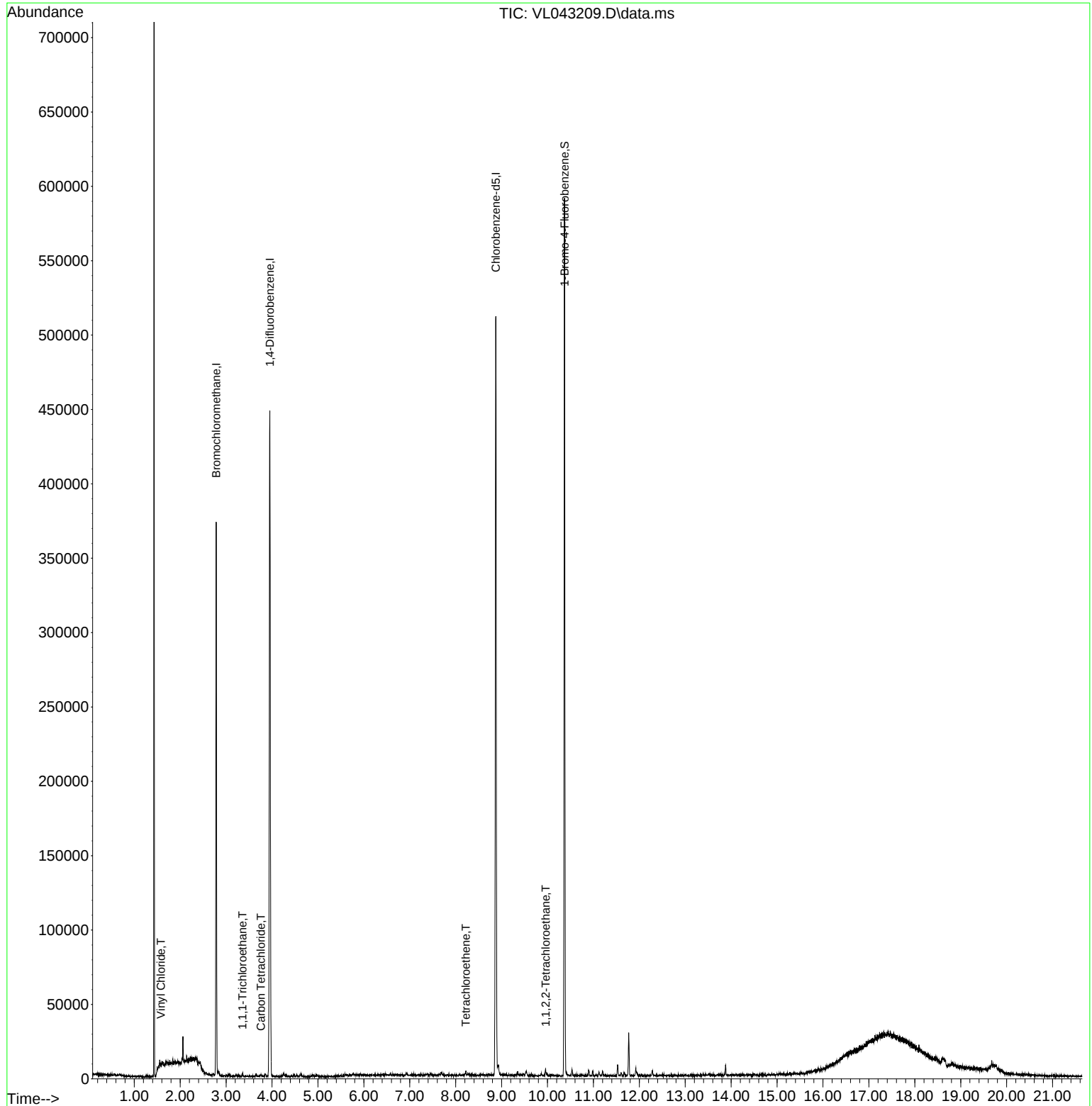
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043209.D
Acq On : 18 Nov 2025 12:49
Operator : SY/MD
Sample : VSTDIC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Nov 19 00:52:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 11/19/2025
Supervised By : Mahesh Dadoda 11/19/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043210.D
 Acq On : 18 Nov 2025 13:24
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:53:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	98968	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	258461	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	211247	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	159814	10.321	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 103.200%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	197987	14.184	ppbv	99
3) Chlorodifluoromethane	1.476	51	182813	13.317	ppbv	98
4) Chloromethane	1.531	50	72636	13.918	ppbv	97
5) Vinyl Chloride	1.580	62	71671	12.557	ppbv	96
6) Bromomethane	1.667	94	38265	13.830	ppbv	98
7) Chloroethane	1.703	64	29584	13.309	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	165709	14.271	ppbv	97
9) Propene	1.483	41	81393m	12.782	ppbv	
10) Heptane	4.972	43	225935	12.934	ppbv	100
11) Trichlorofluoromethane	1.874	101	200703	14.840	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	152772	14.469	ppbv	98
13) Ethanol	1.719	45	25468	12.425	ppbv	99
14) Bromoethene	1.781	108	55813	13.789	ppbv	96
15) Acetone	1.832	43	161036	11.712	ppbv	99
16) 1,3-Butadiene	1.609	39	81077	13.226	ppbv	99
17) tert-Butyl alcohol	2.036	59	257617	14.274	ppbv	99
18) 1,1-Dichloroethene	2.033	96	65731	13.370	ppbv	96
19) Isopropyl Alcohol	1.881	45	105271	13.549	ppbv	99
20) Methylene Chloride	2.059	84	59798	15.164	ppbv	93
21) Allyl Chloride	2.094	41	126959	13.724	ppbv	96
22) trans-1,2-Dichloroethene	2.337	96	77386	13.772	ppbv	94
23) Vinyl Acetate	2.457	43	232315	13.995	ppbv	99
24) 1,1-Dichloroethane	2.405	63	155017	14.292	ppbv	98
25) Ethyl Acetate	2.829	43	394074	13.265	ppbv	99
26) Hexane	2.823	57	172303	13.252	ppbv	97
27) Carbon Disulfide	2.150	76	191612	14.435	ppbv	97
28) Methyl tert-Butyl Ether	2.434	73	91132	14.279	ppbv	97
29) Chloroform	2.845	83	262803	14.221	ppbv	100
30) Cyclohexane	3.852	84	152015	13.946	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	180647	13.978	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	276915	13.930	ppbv	98
34) 2-Butanone	2.551	43	253855	13.914	ppbv	100
35) Carbon Tetrachloride	3.755	117	279560	14.250	ppbv	96
36) Benzene	3.651	78	348892	14.096	ppbv	99
37) 1,2-Dichloroethane	3.214	62	214248	14.798	ppbv	98
38) Trichloroethene	4.541	130	137027	14.123	ppbv	93
39) 1,2-Dichloropropane	4.302	63	128700	14.206	ppbv	98
40) 1,4-Dioxane	4.571	88	55905	13.728	ppbv #	95
41) Tetrahydrofuran	3.043	42	139722	13.868	ppbv	99
42) Bromodichloromethane	4.480	83	294008	14.721	ppbv	97
43) Methyl Methacrylate	4.872	69	179110	13.633	ppbv	100
44) 2,2,4-Trimethylpentane	4.632	57	595778	14.014	ppbv	99
45) t-1,3-Dichloropropene	6.406	75	177678	14.508	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043210.D
 Acq On : 18 Nov 2025 13:24
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:53:26 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	205226	14.270	ppbv	100
47) 1,1,2-Trichloroethane	6.571	97	132701	13.738	ppbv	92
48) Dibromochloromethane	7.377	129	240736	14.564	ppbv	99
49) Bromoform	9.477	173	211325	14.434	ppbv	99
50) 4-Methyl-2-Pentanone	5.732	43	354421	13.790	ppbv	99
51) 2-Hexanone	7.422	43	280742	14.067	ppbv #	100
52) Tetrachloroethene	8.218	164	125132	13.591	ppbv	93
53) Toluene	6.924	91	414411	14.050	ppbv	99
54) 1,2-Dibromoethane	7.642	107	203913	14.413	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.917	131	214673	13.827	ppbv	99
57) Chlorobenzene	8.914	112	301986	13.923	ppbv	98
58) Ethyl Benzene	9.348	91	579890	14.262	ppbv	99
59) m/p-Xylene	9.545	91	916113m	28.000	ppbv	
60) o-Xylene	9.956	91	450260	13.826	ppbv	99
61) Styrene	9.862	104	204972	14.382	ppbv	99
62) Isopropylbenzene	10.532	105	803487	13.791	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.956	83	280254	13.557	ppbv	99
64) n-propylbenzene	10.986	120	205637	13.737	ppbv	100
65) tert-Butylbenzene	11.526	119	689352	13.249	ppbv	98
66) Benzyl Chloride	11.610	91	71386	13.520	ppbv	100
67) sec-Butylbenzene	11.762	105	972780	13.394	ppbv	100
69) p-Isopropyltoluene	11.921	119	836888	13.602	ppbv	99
70) n-Butylbenzene	12.277	91	838598	14.050	ppbv	99
71) 2-Chlorotoluene	10.895	91	625884	13.976	ppbv	100
72) 4-Ethyltoluene	11.121	105	553654	13.961	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	460783	13.846	ppbv	97
74) 1,2,4-Trimethylbenzene	11.533	105	486995	13.409	ppbv	97
75) 1,3-Dichlorobenzene	11.604	146	292143	13.784	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	294723	13.903	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	273467	13.420	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	211153	12.416	ppbv	99
79) Naphthalene	13.510	128	473229	14.670	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	139019	16.418	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	216260	14.990	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Nov 19 00:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 00:48:15 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:34:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	97854	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	261914	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	216212	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 159242 10.048 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	133374	9.664	ppbv	98
3) Chlorodifluoromethane	1.476	51	124858	9.199	ppbv	98
4) Chloromethane	1.535	50	46906	9.090	ppbv	95
5) Vinyl Chloride	1.580	62	47932	8.493	ppbv	95
6) Bromomethane	1.667	94	22230	8.126	ppbv	99
7) Chloroethane	1.703	64	19854	9.033	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	110587	9.632	ppbv	97
9) Propene	1.483	41	54006m	9.370	ppbv	
10) Heptane	4.975	43	149202	8.698	ppbv	99
11) Trichlorofluoromethane	1.878	101	134746	10.077	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	100984	9.673	ppbv	99
13) Ethanol	1.719	45	15371	7.584	ppbv	92
14) Bromoethene	1.781	108	36979	9.240	ppbv	98
15) Acetone	1.832	43	104830	7.711	ppbv	99
16) 1,3-Butadiene	1.609	39	54795	9.041	ppbv	96
17) tert-Butyl alcohol	2.036	59	164987	9.245	ppbv	99
18) 1,1-Dichloroethene	2.033	96	43833	9.017	ppbv	99
19) Isopropyl Alcohol	1.884	45	64772	8.431	ppbv	97
20) Methylene Chloride	2.062	84	41254	10.323	ppbv	95
21) Allyl Chloride	2.095	41	75516	8.256	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	50228	9.041	ppbv	92
23) Vinyl Acetate	2.460	43	140156	8.539	ppbv	98
24) 1,1-Dichloroethane	2.409	63	103187	9.622	ppbv	97
25) Ethyl Acetate	2.829	43	258609	8.820	ppbv	99
26) Hexane	2.826	57	114312	8.892	ppbv	98
27) Carbon Disulfide	2.150	76	125048	9.528	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	64183	10.171	ppbv	98
29) Chloroform	2.846	83	173977	9.521	ppbv	99
30) Cyclohexane	3.852	84	98598	9.148	ppbv	97
31) cis-1,2-Dichloroethene	2.719	61	119843	9.379	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	182262	9.358	ppbv	98
34) 2-Butanone	2.551	43	160977	8.707	ppbv	98
35) Carbon Tetrachloride	3.761	117	182902	9.200	ppbv	98
36) Benzene	3.655	78	233094	9.293	ppbv	99
37) 1,2-Dichloroethane	3.214	62	143363	9.772	ppbv	98
38) Trichloroethene	4.542	130	90993	9.272	ppbv	95
39) 1,2-Dichloropropane	4.305	63	83416	9.086	ppbv	95
40) 1,4-Dioxane	4.571	88	32109	7.780	ppbv #	95
41) Tetrahydrofuran	3.046	42	90769	8.891	ppbv	98
42) Bromodichloromethane	4.486	83	195442	9.657	ppbv	96
43) Methyl Methacrylate	4.872	69	116325	8.737	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	393438	9.133	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	97587	7.863	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:34:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

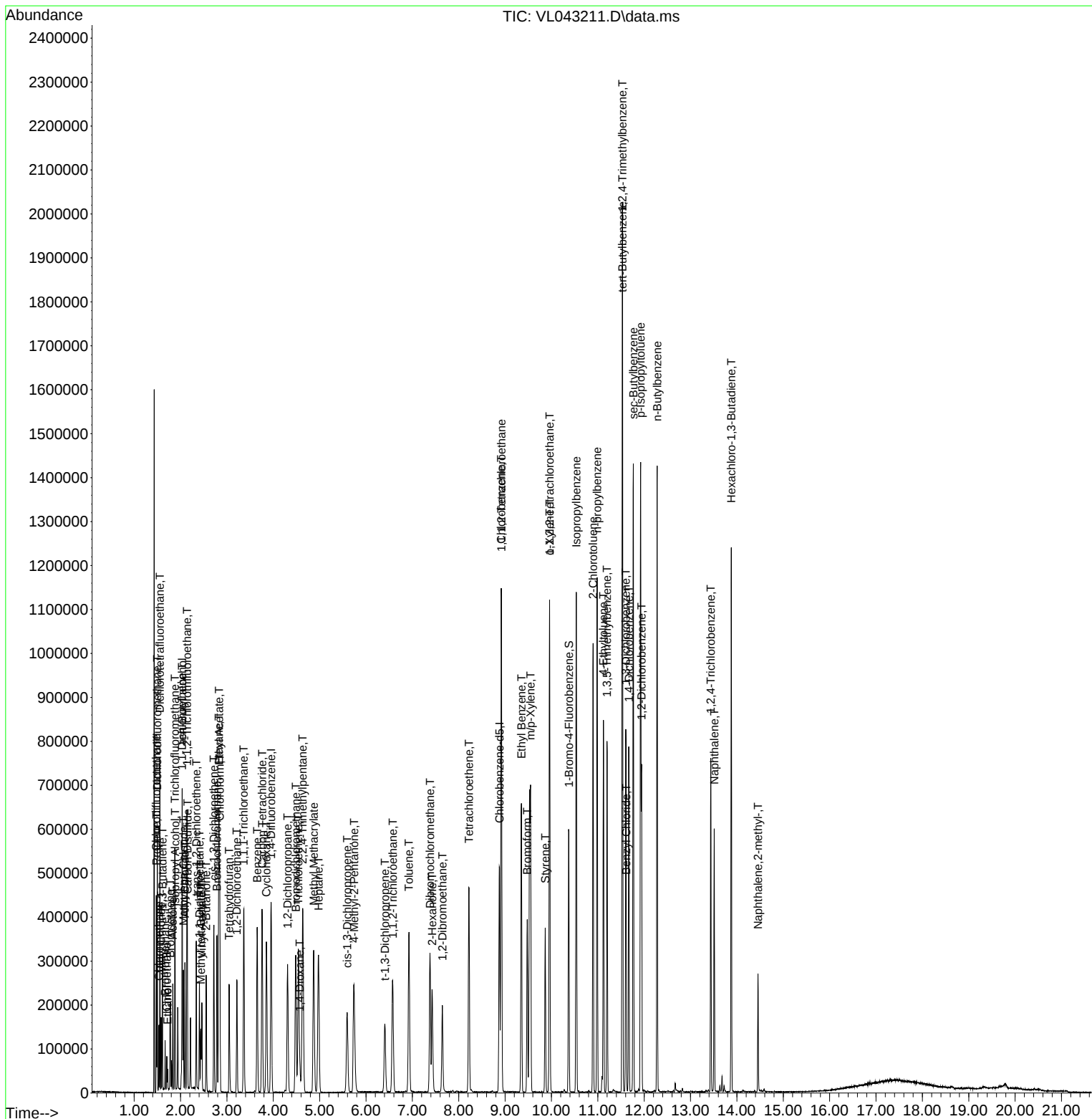
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	115476	7.924	ppbv	97
47) 1,1,2-Trichloroethane	6.577	97	88525	9.086	ppbv	95
48) Dibromochloromethane	7.380	129	159365	9.514	ppbv	99
49) Bromoform	9.477	173	134790	9.085	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	224791	8.631	ppbv	99
51) 2-Hexanone	7.429	43	166506	8.233	ppbv #	100
52) Tetrachloroethene	8.222	164	82890	8.884	ppbv	98
53) Toluene	6.924	91	273172	9.197	ppbv	99
54) 1,2-Dibromoethane	7.645	107	124804	8.705	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.921	131	142512	8.969	ppbv	98
57) Chlorobenzene	8.917	112	199373	8.981	ppbv	96
58) Ethyl Benzene	9.351	91	381474	9.167	ppbv	97
59) m/p-Xylene	9.549	91	604165m	18.108	ppbv	
60) o-Xylene	9.960	91	295836	8.876	ppbv	99
61) Styrene	9.866	104	127117	8.714	ppbv	97
62) Isopropylbenzene	10.536	105	525717	8.816	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.960	83	178591	8.421	ppbv	100
64) n-propylbenzene	10.986	120	131634	8.591	ppbv	96
65) tert-Butylbenzene	11.529	119	450819	8.465	ppbv	99
66) Benzyl Chloride	11.614	91	27878	5.159	ppbv	99
67) sec-Butylbenzene	11.766	105	623520	8.388	ppbv	100
69) p-Isopropyltoluene	11.924	119	520880	8.272	ppbv	99
70) n-Butylbenzene	12.280	91	513027	8.398	ppbv	99
71) 2-Chlorotoluene	10.898	91	396434	8.649	ppbv	99
72) 4-Ethyltoluene	11.122	105	356325	8.779	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	294977	8.660	ppbv	95
74) 1,2,4-Trimethylbenzene	11.533	105	314606	8.463	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	180491	8.320	ppbv	99
76) 1,4-Dichlorobenzene	11.669	146	179491	8.273	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	166137	7.966	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	125707	7.222	ppbv	100
79) Naphthalene	13.510	128	273029	8.270	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	74802	8.631	ppbv	97
81) 1,2,4-Trichlorobenzene	13.436	180	125470	8.497	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Nov 19 01:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	93	0.00
2 T	Dichlorodifluoromethane	1.410	1.363	3.3	95	0.00
3	Chlorodifluoromethane	1.387	1.276	8.0	90	0.00
4	Chloromethane	0.527	0.479	9.1	90	0.00
5 T	Vinyl Chloride	0.577	0.490	15.1	94	0.00
6 T	Bromomethane	0.280	0.227	18.9	84	0.00
7	Chloroethane	0.225	0.203	9.8	97	0.00
8 T	Dichlorotetrafluoroethane	1.173	1.130	3.7	96	0.00
9 T	Propene	0.589	0.552	6.3	103	0.00
10 T	Heptane	1.753	1.525	13.0	88	0.00
11 T	Trichlorofluoromethane	1.367	1.377	-0.7	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.067	1.032	3.3	97	0.00
13	Ethanol	0.207	0.157	24.2	88	0.00
14 T	Bromoethene	0.409	0.378	7.6	97	0.00
15 T	Acetone	1.389	1.071	22.9	97	0.00
16 T	1,3-Butadiene	0.619	0.560	9.5	95	0.00
17	tert-Butyl alcohol	1.824	1.686	7.6	92	0.00
18 T	1,1-Dichloroethene	0.497	0.448	9.9	95	0.00
19 T	Isopropyl Alcohol	0.785	0.662	15.7	90	0.00
20 T	Methylene Chloride	0.600	0.422	29.7	99	0.00
21 T	Allyl Chloride	0.935	0.772	17.4	85	0.00
22 T	trans-1,2-Dichloroethene	0.568	0.513	9.7	96	0.00
23 T	Vinyl Acetate	1.677	1.432	14.6	82	0.00
24 T	1,1-Dichloroethane	1.096	1.054	3.8	96	0.00
25 T	Ethyl Acetate	2.996	2.643	11.8	89	0.00
26 T	Hexane	1.314	1.168	11.1	88	0.00
27 T	Carbon Disulfide	1.341	1.278	4.7	95	0.00
28 T	Methyl tert-Butyl Ether	0.645	0.656	-1.7	103	0.00
29 T	Chloroform	1.867	1.778	4.8	93	0.00
30 T	Cyclohexane	1.101	1.008	8.4	92	0.00
31 T	cis-1,2-Dichloroethene	1.306	1.225	6.2	92	0.00
32 T	1,1,1-Trichloroethane	1.990	1.863	6.4	92	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.706	0.615	12.9	88	0.00
35 T	Carbon Tetrachloride	0.759	0.698	8.0	91	0.00
36 T	Benzene	0.958	0.890	7.1	91	0.00
37 T	1,2-Dichloroethane	0.560	0.547	2.3	95	0.00
38 T	Trichloroethene	0.375	0.347	7.5	91	0.00
39 T	1,2-Dichloropropane	0.351	0.318	9.4	88	0.00
40 T	1,4-Dioxane	0.158	0.123	22.2	79	0.00
41 T	Tetrahydrofuran	0.390	0.347	11.0	87	0.00
42 T	Bromodichloromethane	0.773	0.746	3.5	92	0.00
43	Methyl Methacrylate	0.508	0.444	12.6	89	0.00
44 T	2,2,4-Trimethylpentane	1.645	1.502	8.7	89	0.00
45 T	t-1,3-Dichloropropene	0.474	0.373	21.3	76	0.00
46 T	cis-1,3-Dichloropropene	0.556	0.441	20.7	76	0.00
47 T	1,1,2-Trichloroethane	0.372	0.338	9.1	91	0.01
48 T	Dibromochloromethane	0.640	0.608	5.0	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	0.566	0.515	9.0	86	0.00
50 T	4-Methyl-2-Pentanone	0.994	0.858	13.7	84	0.00
51 T	2-Hexanone	0.772	0.636	17.6	80	0.00
52 T	Tetrachloroethene	0.356	0.316	11.2	89	0.00
53 T	Toluene	1.134	1.043	8.0	90	0.00
54 T	1,2-Dibromoethane	0.547	0.477	12.8	84	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	0.735	0.659	10.3	90	0.00
57 T	Chlorobenzene	1.027	0.922	10.2	88	0.00
58 T	Ethyl Benzene	1.925	1.764	8.4	89	0.00
59 T	m/p-Xylene	1.543	1.397	9.5	90	0.00
60 T	o-Xylene	1.542	1.368	11.3	89	0.00
61 T	Styrene	0.675	0.588	12.9	84	0.00
62	Isopropylbenzene	2.758	2.431	11.9	88	0.00
63 T	1,1,2,2-Tetrachloroethane	0.981	0.826	15.8	85	0.00
64	n-propylbenzene	0.709	0.609	14.1	85	0.00
65	tert-Butylbenzene	2.463	2.085	15.3	86	0.00
66 T	Benzyl Chloride	0.250	0.129	48.4#	49	0.00
67	sec-Butylbenzene	3.438	2.884	16.1	85	0.00
68 S	1-Bromo-4-Fluorobenzene	0.733	0.737	-0.5	92	0.00
69	p-Isopropyltoluene	2.912	2.409	17.3	83	0.00
70	n-Butylbenzene	2.825	2.373	16.0	83	0.00
71	2-Chlorotoluene	2.120	1.834	13.5	86	0.00
72 T	4-Ethyltoluene	1.877	1.648	12.2	87	0.00
73 T	1,3,5-Trimethylbenzene	1.575	1.364	13.4	86	0.00
74 T	1,2,4-Trimethylbenzene	1.719	1.455	15.4	87	0.00
75 T	1,3-Dichlorobenzene	1.003	0.835	16.7	82	0.00
76 T	1,4-Dichlorobenzene	1.003	0.830	17.2	81	0.00
77 T	1,2-Dichlorobenzene	0.965	0.768	20.4	81	0.00
78 T	Hexachloro-1,3-Butadiene	0.805	0.581	27.8	78	0.00
79 T	Naphthalene	1.527	1.263	17.3	78	0.00
80 T	Naphthalene,2-methyl-	0.401	0.346	13.7	80	0.00
81 T	1,2,4-Trichlorobenzene	0.683	0.580	15.1	79	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	93	0.00
2 T	Dichlorodifluoromethane	10.000	9.664	3.4	95	0.00
3	Chlorodifluoromethane	10.000	9.199	8.0	90	0.00
4	Chloromethane	10.000	9.090	9.1	90	0.00
5 T	Vinyl Chloride	10.000	8.493	15.1	94	0.00
6 T	Bromomethane	10.000	8.126	18.7	84	0.00
7	Chloroethane	10.000	9.033	9.7	97	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.632	3.7	96	0.00
9 T	Propene	10.000	9.370	6.3	103	0.00
10 T	Heptane	10.000	8.698	13.0	88	0.00
11 T	Trichlorofluoromethane	10.000	10.077	-0.8	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.673	3.3	97	0.00
13	Ethanol	10.000	7.584	24.2	88	0.00
14 T	Bromoethene	10.000	9.240	7.6	97	0.00
15 T	Acetone	10.000	7.711	22.9	97	0.00
16 T	1,3-Butadiene	10.000	9.041	9.6	95	0.00
17	tert-Butyl alcohol	10.000	9.245	7.6	92	0.00
18 T	1,1-Dichloroethene	10.000	9.017	9.8	95	0.00
19 T	Isopropyl Alcohol	10.000	8.431	15.7	90	0.00
20 T	Methylene Chloride	10.000	10.323	-3.2	99	0.00
21 T	Allyl Chloride	10.000	8.256	17.4	85	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.041	9.6	96	0.00
23 T	Vinyl Acetate	10.000	8.539	14.6	82	0.00
24 T	1,1-Dichloroethane	10.000	9.622	3.8	96	0.00
25 T	Ethyl Acetate	10.000	8.820	11.8	89	0.00
26 T	Hexane	10.000	8.892	11.1	88	0.00
27 T	Carbon Disulfide	10.000	9.528	4.7	95	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.171	-1.7	103	0.00
29 T	Chloroform	10.000	9.521	4.8	93	0.00
30 T	Cyclohexane	10.000	9.148	8.5	92	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.379	6.2	92	0.00
32 T	1,1,1-Trichloroethane	10.000	9.358	6.4	92	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34 T	2-Butanone	10.000	8.707	12.9	88	0.00
35 T	Carbon Tetrachloride	10.000	9.200	8.0	91	0.00
36 T	Benzene	10.000	9.293	7.1	91	0.00
37 T	1,2-Dichloroethane	10.000	9.772	2.3	95	0.00
38 T	Trichloroethene	10.000	9.272	7.3	91	0.00
39 T	1,2-Dichloropropane	10.000	9.086	9.1	88	0.00
40 T	1,4-Dioxane	10.000	7.780	22.2	79	0.00
41 T	Tetrahydrofuran	10.000	8.891	11.1	87	0.00
42 T	Bromodichloromethane	10.000	9.657	3.4	92	0.00
43	Methyl Methacrylate	10.000	8.737	12.6	89	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.133	8.7	89	0.00
45 T	t-1,3-Dichloropropene	10.000	7.863	21.4	76	0.00
46 T	cis-1,3-Dichloropropene	10.000	7.924	20.8	76	0.00
47 T	1,1,2-Trichloroethane	10.000	9.086	9.1	91	0.01
48 T	Dibromochloromethane	10.000	9.514	4.9	91	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043211.D
 Acq On : 18 Nov 2025 13:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL111825

Quant Time: Nov 19 01:34:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 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	9.085	9.1	86	0.00
50 T	4-Methyl-2-Pentanone	10.000	8.631	13.7	84	0.00
51 T	2-Hexanone	10.000	8.233	17.7	80	0.00
52 T	Tetrachloroethene	10.000	8.884	11.2	89	0.00
53 T	Toluene	10.000	9.197	8.0	90	0.00
54 T	1,2-Dibromoethane	10.000	8.705	13.0	84	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	92	0.00
56	1,1,1,2-Tetrachloroethane	10.000	8.969	10.3	90	0.00
57 T	Chlorobenzene	10.000	8.981	10.2	88	0.00
58 T	Ethyl Benzene	10.000	9.167	8.3	89	0.00
59 T	m/p-Xylene	20.000	18.108	9.5	90	0.00
60 T	o-Xylene	10.000	8.876	11.2	89	0.00
61 T	Styrene	10.000	8.714	12.9	84	0.00
62	Isopropylbenzene	10.000	8.816	11.8	88	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.421	15.8	85	0.00
64	n-propylbenzene	10.000	8.591	14.1	85	0.00
65	tert-Butylbenzene	10.000	8.465	15.4	86	0.00
66 T	Benzyl Chloride	10.000	5.159	48.4#	49	0.00
67	sec-Butylbenzene	10.000	8.388	16.1	85	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.048	-0.5	92	0.00
69	p-Isopropyltoluene	10.000	8.272	17.3	83	0.00
70	n-Butylbenzene	10.000	8.398	16.0	83	0.00
71	2-Chlorotoluene	10.000	8.649	13.5	86	0.00
72 T	4-Ethyltoluene	10.000	8.779	12.2	87	0.00
73 T	1,3,5-Trimethylbenzene	10.000	8.660	13.4	86	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.463	15.4	87	0.00
75 T	1,3-Dichlorobenzene	10.000	8.320	16.8	82	0.00
76 T	1,4-Dichlorobenzene	10.000	8.273	17.3	81	0.00
77 T	1,2-Dichlorobenzene	10.000	7.966	20.3	81	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.222	27.8	78	0.00
79 T	Naphthalene	10.000	8.270	17.3	78	0.00
80 T	Naphthalene,2-methyl-	10.000	8.631	13.7	80	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.497	15.0	79	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>Q3650</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>11/18/2025</u> <u>10:02</u>
Lab File ID:	<u>VL043204.D</u>	Init. Calib. Date(s):	<u>11/18/2025</u> <u>11/18/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:29</u> <u>13:24</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.577	0.486		-15.77	
Heptane	1.753	1.604		-8.5	
1,1-Dichloroethane	1.096	1.018		-7.12	
Cyclohexane	1.101	1.024		-6.99	
cis-1,2-Dichloroethene	1.306	1.240		-5.05	
1,1,1-Trichloroethane	1.990	1.884		-5.33	
2,2,4-Trimethylpentane	1.645	1.555		-5.47	
Benzene	0.958	0.905		-5.53	
Trichloroethene	0.375	0.353		-5.87	
Toluene	1.134	1.075		-5.2	
Tetrachloroethene	0.356	0.329		-7.58	
Ethyl Benzene	1.925	1.821		-5.4	
m/p-Xylene	1.543	1.434		-7.06	
o-Xylene	1.542	1.419		-7.98	
1,3,5-Trimethylbenzene	1.575	1.456		-7.56	
1,2,4-Trimethylbenzene	1.719	1.548		-9.95	
Naphthalene	1.527	1.496		-2.03	
1-Bromo-4-Fluorobenzene	0.733	0.735		0.27	
Hexane	1.314	1.235		-6.01	

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\VL111825\
 Data File : VL043204.D
 Acq On : 18 Nov 2025 10:02
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:49:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	105095	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	283830	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	234772	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	172524	10.025	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	140789	9.498	ppbv	100
3) Chlorodifluoromethane	1.473	51	138443	9.497	ppbv	100
4) Chloromethane	1.531	50	52372	9.450	ppbv	100
5) Vinyl Chloride	1.577	62	51045	8.422	ppbv	100
6) Bromomethane	1.664	94	26542	9.034	ppbv	100
7) Chloroethane	1.700	64	20375	8.632	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	114670	9.300	ppbv	100
9) Propene	1.480	41	52671	7.789	ppbv #	1
10) Heptane	4.965	43	168611	9.090	ppbv	100
11) Trichlorofluoromethane	1.875	101	130362	9.077	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	103679	9.247	ppbv	100
13) Ethanol	1.716	45	17464	8.023	ppbv	100
14) Bromoethene	1.777	108	38037	8.849	ppbv	100
15) Acetone	1.832	43	108422	7.426	ppbv	100
16) 1,3-Butadiene	1.606	39	57871	8.890	ppbv	100
17) tert-Butyl alcohol	2.036	59	179201	9.350	ppbv	100
18) 1,1-Dichloroethene	2.030	96	46313	8.871	ppbv	100
19) Isopropyl Alcohol	1.881	45	71862	8.710	ppbv	100
20) Methylene Chloride	2.056	84	41868	9.708	ppbv	100
21) Allyl Chloride	2.091	41	89266	9.087	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	52470	8.793	ppbv	100
23) Vinyl Acetate	2.457	43	170459	9.670	ppbv	100
24) 1,1-Dichloroethane	2.405	63	106970	9.287	ppbv	100
25) Ethyl Acetate	2.829	43	289921	9.190	ppbv	100
26) Hexane	2.820	57	129809	9.402	ppbv	100
27) Carbon Disulfide	2.146	76	132086	9.371	ppbv	100
28) Methyl tert-Butyl Ether	2.434	73	62115	9.165	ppbv	100
29) Chloroform	2.842	83	187620	9.561	ppbv	100
30) Cyclohexane	3.846	84	107621	9.297	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	130357	9.499	ppbv	100
32) 1,1,1-Trichloroethane	3.360	97	198036	9.381	ppbv	100
34) 2-Butanone	2.551	43	182749	9.121	ppbv	100
35) Carbon Tetrachloride	3.755	117	200831	9.322	ppbv	100
36) Benzene	3.648	78	256954	9.453	ppbv	100
37) 1,2-Dichloroethane	3.211	62	150769	9.483	ppbv	100
38) Trichloroethene	4.535	130	100136	9.398	ppbv	100
39) 1,2-Dichloropropane	4.302	63	95097	9.559	ppbv	100
40) 1,4-Dioxane	4.567	88	40441	9.043	ppbv #	100
41) Tetrahydrofuran	3.046	42	104294	9.426	ppbv	100
42) Bromodichloromethane	4.477	83	211504	9.643	ppbv	100
43) Methyl Methacrylate	4.865	69	131003	9.080	ppbv	100
44) 2,2,4-Trimethylpentane	4.626	57	441234	9.451	ppbv	100
45) t-1,3-Dichloropropene	6.399	75	129122	9.601	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043204.D
 Acq On : 18 Nov 2025 10:02
 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 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 00:49:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 00:48:15 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.584	75	151655	9.603	ppbv	100
47) 1,1,2-Trichloroethane	6.564	97	97512	9.193	ppbv	100
48) Dibromochloromethane	7.377	129	175529	9.670	ppbv	100
49) Bromoform	9.474	173	157563	9.800	ppbv	100
50) 4-Methyl-2-Pentanone	5.733	43	268369	9.509	ppbv	100
51) 2-Hexanone	7.419	43	208268	9.503	ppbv #	100
52) Tetrachloroethene	8.212	164	93518	9.249	ppbv	100
53) Toluene	6.920	91	305169	9.422	ppbv	100
54) 1,2-Dibromoethane	7.639	107	148973	9.588	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.914	131	158856	9.207	ppbv	100
57) Chlorobenzene	8.911	112	227490	9.438	ppbv	100
58) Ethyl Benzene	9.345	91	427530	9.461	ppbv	100
59) m/p-Xylene	9.542	91	673371m	18.519	ppbv	
60) o-Xylene	9.956	91	333044	9.202	ppbv	100
61) Styrene	9.863	104	152172	9.607	ppbv	100
62) Isopropylbenzene	10.533	105	600155	9.269	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.953	83	209272	9.109	ppbv	100
64) n-propylbenzene	10.982	120	154239	9.271	ppbv	100
65) tert-Butylbenzene	11.523	119	522106	9.029	ppbv	100
66) Benzyl Chloride	11.607	91	56620	9.649	ppbv	100
67) sec-Butylbenzene	11.762	105	729573	9.039	ppbv	100
69) p-Isopropyltoluene	11.918	119	624586	9.135	ppbv	100
70) n-Butylbenzene	12.274	91	619610	9.341	ppbv	100
71) 2-Chlorotoluene	10.895	91	460118	9.245	ppbv	100
72) 4-Ethyltoluene	11.118	105	410587	9.316	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	341900	9.244	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	363476	9.005	ppbv	100
75) 1,3-Dichlorobenzene	11.601	146	219894	9.335	ppbv	100
76) 1,4-Dichlorobenzene	11.665	146	220576	9.363	ppbv	100
77) 1,2-Dichlorobenzene	11.940	146	204826	9.044	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	161034	8.520	ppbv	100
79) Naphthalene	13.507	128	351148	9.795	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	93113	9.895	ppbv	100
81) 1,2,4-Trichlorobenzene	13.436	180	159091	9.923	ppbv	100

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



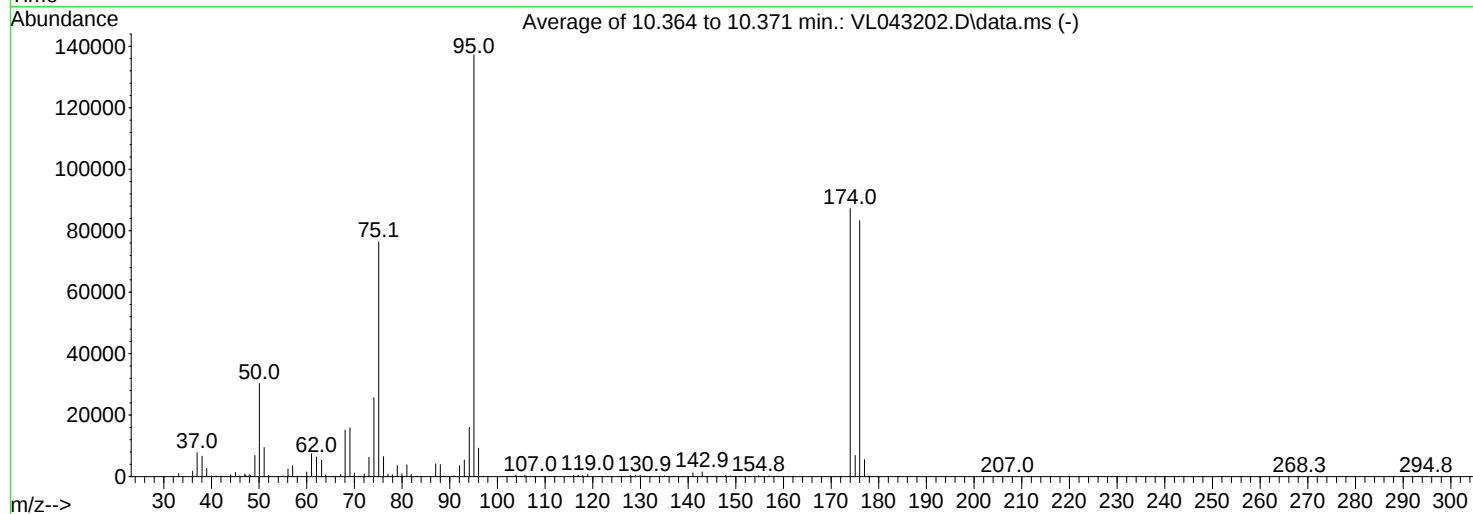
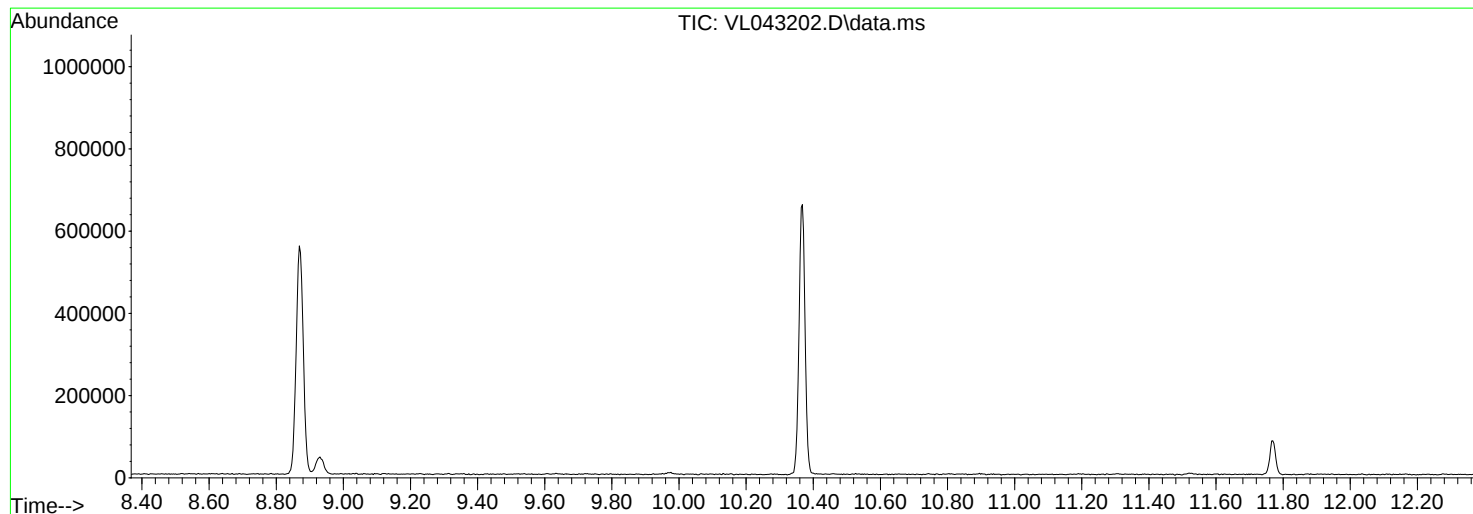
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043202.D
Acq On : 18 Nov 2025 08:46
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\VL111825AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Nov 19 01:11:25 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3156

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.1	30285	PASS
75	95	30	66	55.6	76296	PASS
95	95	100	100	100.0	137266	PASS
96	95	5	9	6.7	9227	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.6	87269	PASS
175	174	4	9	7.8	6847	PASS
176	174	93	101	95.5	83301	PASS
177	176	5	9	6.6	5509	PASS

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.15	1017	45.05	1373	56.05	2485	67.10	650
33.80	90	45.95	190	57.05	3511	68.05	1515
36.05	1728	47.00	799	58.00	209	69.05	1587
37.00	7775	47.20	474	60.00	1493	70.00	1182
38.05	6647	47.95	600	61.00	7430	70.90	18
39.00	2637	48.20	316	62.05	6404	71.20	48
40.05	176	49.10	6876	63.10	5348	72.05	772
41.00	228	50.05	30285	63.95	548	73.05	6279
42.20	99	51.05	9432	65.10	18	74.10	25637
43.00	63	52.00	422	65.75	54	75.10	76296
44.05	598	55.05	162	66.10	23	76.10	6470

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	853	88.00	3931	102.80	24	109.85	96
77.95	601	88.70	128	103.10	20	110.85	101
79.00	3536	90.95	202	103.90	564	111.80	44
79.95	911	92.05	3581	104.90	156	112.20	28
81.00	3819	93.05	5411	105.75	294	114.70	70
81.90	690	94.10	15989	106.00	240	114.95	67
82.90	77	95.05	137266	106.95	132	115.95	360
83.10	136	96.05	9227	107.65	48	116.80	153
84.15	40	97.00	116	108.10	27	116.95	414
86.00	131	97.90	24	109.00	61	117.90	356
87.05	4162	102.10	22	109.70	38	118.95	710

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.10	19	135.05	222	145.80	142	157.00	250
123.90	99	135.90	30	146.10	100	158.60	28
125.20	19	136.95	182	146.80	34	159.00	120
125.70	56	138.90	65	147.10	127	161.00	78
126.10	58	139.90	157	147.90	406	170.90	87
127.85	394	141.00	1242	148.90	165	172.20	73
128.10	59	141.90	141	149.95	156	174.00	87269
129.00	325	142.95	1524	151.00	22	175.05	6847
129.95	344	143.70	75	151.80	76	176.00	83301
130.95	175	144.00	78	152.90	62	177.00	5509
134.60	21	145.00	87	154.80	296	177.95	166

Average of 10.364 to 10.371 min.: VL043202.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
207.00	28						
268.30	20						
294.80	17						

Report of Analysis

Client: GFE LLC
Project: 470 TO 472 WESTBURY AVE
Client Sample ID: VL1118ABL01
Lab Sample ID: VL1118ABL01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3650
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.030	0.080	U	1	0.080	0.080	11/18/25 14:41	VL111825
142-82-5	Heptane	0.17	0.70	U	1	0.70	2.05	11/18/25 14:41	VL111825
75-34-3	1,1-Dichloroethane	0.13	0.53	U	1	0.53	2.02	11/18/25 14:41	VL111825
110-82-7	Cyclohexane	0.22	0.76	U	1	0.76	1.72	11/18/25 14:41	VL111825
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	1	0.40	1.98	11/18/25 14:41	VL111825
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	1	0.11	0.16	11/18/25 14:41	VL111825
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	1	0.65	2.34	11/18/25 14:41	VL111825
71-43-2	Benzene	0.080	0.26	U	1	0.26	1.60	11/18/25 14:41	VL111825
79-01-6	Trichloroethene	0.020	0.11	U	1	0.11	0.16	11/18/25 14:41	VL111825
108-88-3	Toluene	0.16	0.60	U	1	0.60	1.88	11/18/25 14:41	VL111825
127-18-4	Tetrachloroethene	0.020	0.14	U	1	0.14	0.20	11/18/25 14:41	VL111825
100-41-4	Ethyl Benzene	0.19	0.83	U	1	0.83	2.17	11/18/25 14:41	VL111825
179601-23-1	m/p-Xylene	0.41	1.78	U	1	1.78	4.34	11/18/25 14:41	VL111825
95-47-6	o-Xylene	0.21	0.91	U	1	0.91	2.17	11/18/25 14:41	VL111825
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 14:41	VL111825
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	1	0.88	2.46	11/18/25 14:41	VL111825
91-20-3	Naphthalene	0.010	0.050	U	1	0.050	0.52	11/18/25 14:41	VL111825
110-54-3	Hexane	0.16	0.56	U	1	0.56	1.76	11/18/25 14:41	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.0		65 - 135	100%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	96000
540-36-3	1,4-Difluorobenzene	263000
3114-55-4	Chlorobenzene-d5	209000

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\VL111825\
 Data File : VL043212.D
 Acq On : 18 Nov 2025 14:41
 Operator : SY/MD
 Sample : VL1118ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1118ABL01

Quant Time: Nov 19 01:34:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	95971	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	262557	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	209184	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	153824	10.032	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.300%

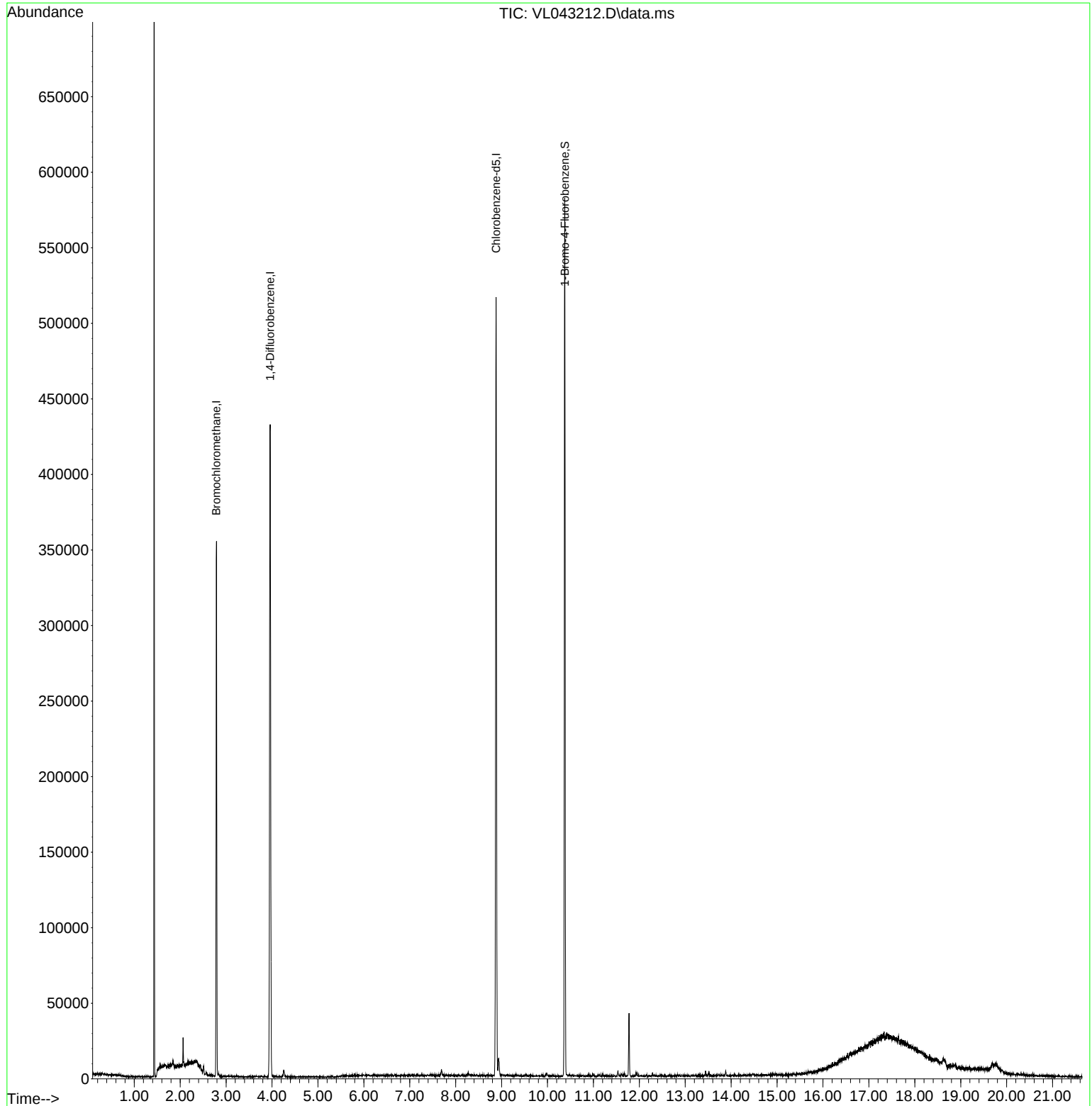
Target Compounds	Qvalue

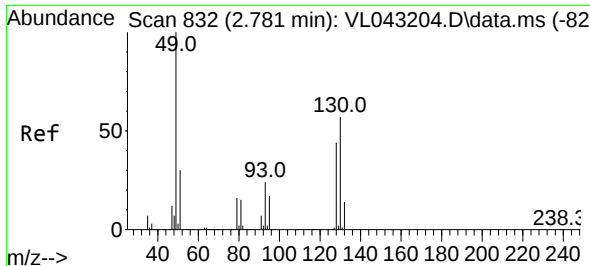
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
Data File : VL043212.D
Acq On : 18 Nov 2025 14:41
Operator : SY/MD
Sample : VL1118ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1118ABL01

Quant Time: Nov 19 01:34:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

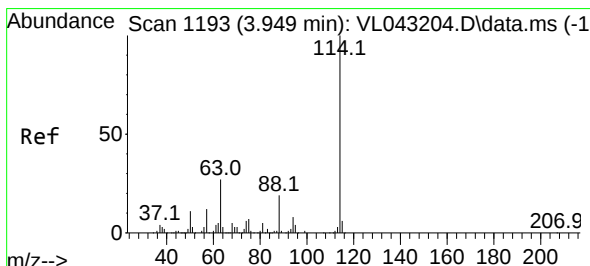
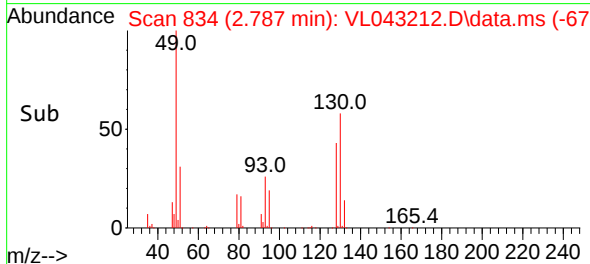
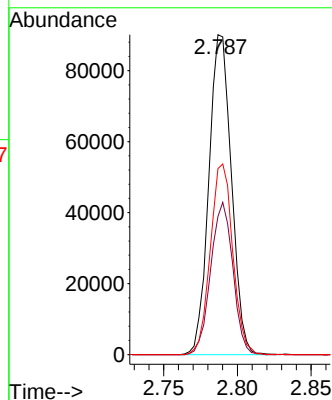
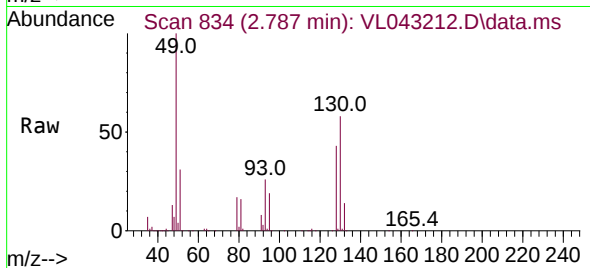




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 832
Delta R.T. 0.006 min
Lab File: VL043212.D
Acq: 18 Nov 2025 14:41

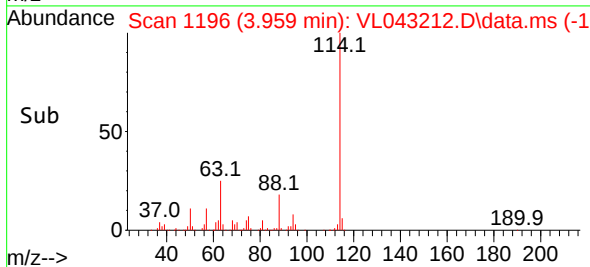
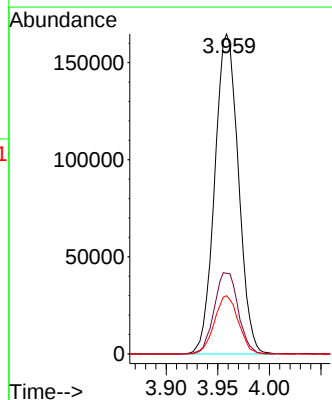
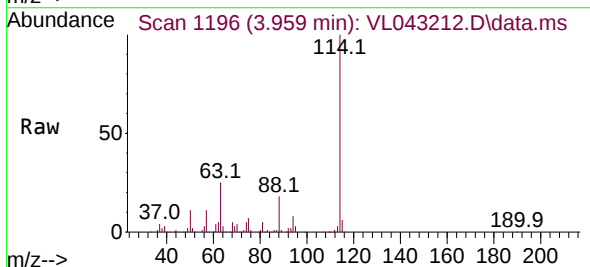
Instrument :
MSVOA_1
ClientSampleId :
VL1118ABL01

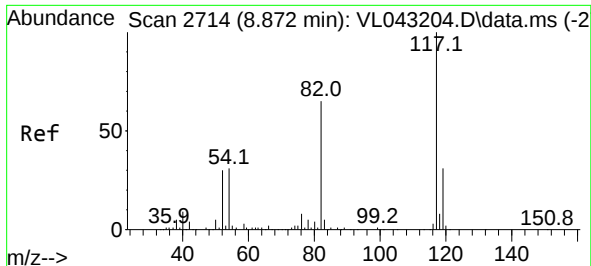
Tgt Ion: 49 Resp: 95971
Ion Ratio Lower Upper
49 100
128 46.6 23.0 69.0
130 59.3 29.9 89.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.009 min
Lab File: VL043212.D
Acq: 18 Nov 2025 14:41

Tgt Ion: 114 Resp: 262557
Ion Ratio Lower Upper
114 100
63 25.8 21.0 31.6
88 18.3 14.9 22.3

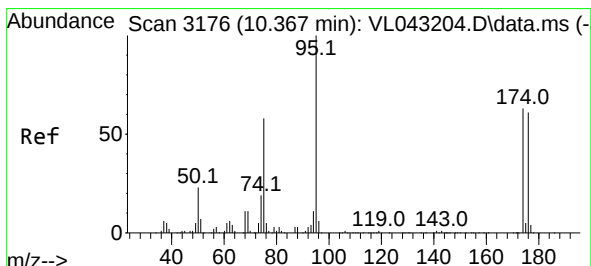
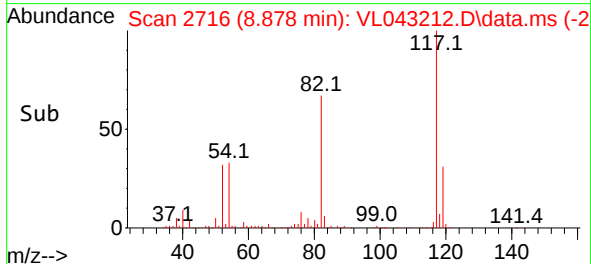
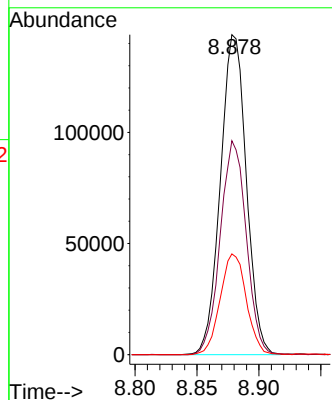
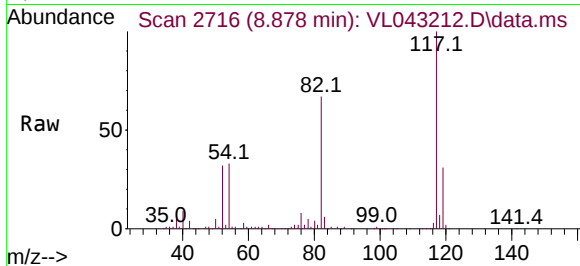




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL043212.D
Acq: 18 Nov 2025 14:41

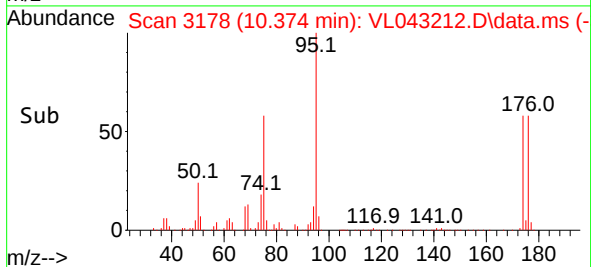
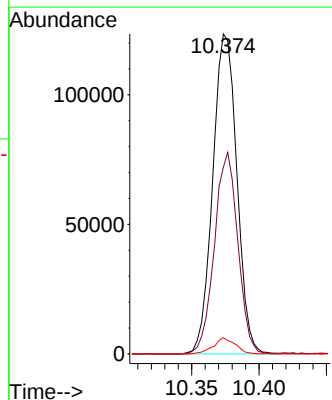
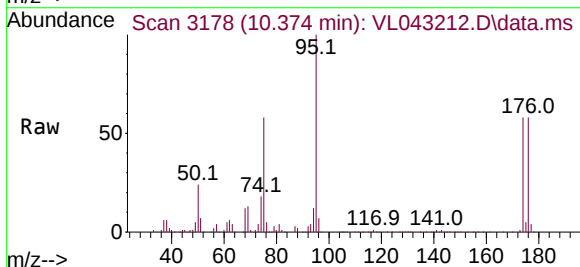
Instrument :
MSVOA_L
ClientSampleId :
VL1118ABL01

Tgt Ion:117 Resp: 209184
Ion Ratio Lower Upper
117 100
82 67.0 56.1 84.1
119 31.7 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 10.032 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.006 min
Lab File: VL043212.D
Acq: 18 Nov 2025 14:41

Tgt Ion: 95 Resp: 153824
Ion Ratio Lower Upper
95 100
174 61.2 50.2 75.2
175 4.6 4.1 6.1



Report of Analysis

Client: GFE LLC
Project: 470 TO 472 WESTBURY AVE
Client Sample ID: VL1118ABS01
Lab Sample ID: VL1118ABS01
Analytical Method: TO-15
Sample Wt/Vol: 400 mL

Date Collected:
Date Received:
SDG No.: Q3650
Matrix: Air
Test: VOCMS Group2

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qua.	DF	MDL ug/m3	LOQ / CRQL ug/m3	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	8.30	21.2		1	0.080	0.080	11/18/25 15:24	VL111825
142-82-5	Heptane	8.50	34.8		1	0.70	2.05	11/18/25 15:24	VL111825
75-34-3	1,1-Dichloroethane	9.60	38.9		1	0.53	2.02	11/18/25 15:24	VL111825
110-82-7	Cyclohexane	9.10	31.3		1	0.76	1.72	11/18/25 15:24	VL111825
156-59-2	cis-1,2-Dichloroethene	9.40	37.3		1	0.40	1.98	11/18/25 15:24	VL111825
71-55-6	1,1,1-Trichloroethane	9.60	52.4		1	0.11	0.16	11/18/25 15:24	VL111825
540-84-1	2,2,4-Trimethylpentane	9.20	43.0		1	0.65	2.34	11/18/25 15:24	VL111825
71-43-2	Benzene	9.40	30.0		1	0.26	1.60	11/18/25 15:24	VL111825
79-01-6	Trichloroethene	9.20	49.4		1	0.11	0.16	11/18/25 15:24	VL111825
108-88-3	Toluene	9.20	34.7		1	0.60	1.88	11/18/25 15:24	VL111825
127-18-4	Tetrachloroethene	8.90	60.4		1	0.14	0.20	11/18/25 15:24	VL111825
100-41-4	Ethyl Benzene	9.50	41.3		1	0.83	2.17	11/18/25 15:24	VL111825
179601-23-1	m/p-Xylene	18.8	81.7		1	1.78	4.34	11/18/25 15:24	VL111825
95-47-6	o-Xylene	9.30	40.4		1	0.91	2.17	11/18/25 15:24	VL111825
108-67-8	1,3,5-Trimethylbenzene	9.40	46.2		1	0.88	2.46	11/18/25 15:24	VL111825
95-63-6	1,2,4-Trimethylbenzene	9.20	45.2		1	0.88	2.46	11/18/25 15:24	VL111825
91-20-3	Naphthalene	9.80	51.4		1	0.050	0.52	11/18/25 15:24	VL111825
110-54-3	Hexane	9.00	31.7		1	0.56	1.76	11/18/25 15:24	VL111825

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.3		65 - 135	103%	SPK: 10
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INTERNAL STANDARDS

	Area Count	
74-97-5	Bromochloromethane	95400
540-36-3	1,4-Difluorobenzene	253000
3114-55-4	Chlorobenzene-d5	205000

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\VL111825\
 Data File : VL043213.D
 Acq On : 18 Nov 2025 15:24
 Operator : SY/MD
 Sample : VL1118ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1118ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:35:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	95420	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	253448	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	205104	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 155032 10.312 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	130627	9.706	ppbv	99
3) Chlorodifluoromethane	1.476	51	117391	8.869	ppbv	97
4) Chloromethane	1.531	50	46147	9.171	ppbv	95
5) Vinyl Chloride	1.580	62	45865	8.335	ppbv	94
6) Bromomethane	1.667	94	24323	9.118	ppbv	98
7) Chloroethane	1.703	64	19180	8.949	ppbv	89
8) Dichlorotetrafluoroethane	1.554	85	106499	9.513	ppbv	96
9) Propene	1.483	41	51535	9.169	ppbv #	1
10) Heptane	4.969	43	142059	8.493	ppbv	100
11) Trichlorofluoromethane	1.878	101	128646	9.866	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	98007	9.627	ppbv	100
13) Ethanol	1.719	45	17446	8.827	ppbv	100
14) Bromoethene	1.780	108	34562	8.856	ppbv	98
15) Acetone	1.832	43	104416	7.876	ppbv	98
16) 1,3-Butadiene	1.609	39	52150	8.824	ppbv	100
17) tert-Butyl alcohol	2.036	59	171044	9.829	ppbv	99
18) 1,1-Dichloroethene	2.033	96	43555	9.189	ppbv	96
19) Isopropyl Alcohol	1.884	45	70667	9.433	ppbv	97
20) Methylene Chloride	2.059	84	38990	9.980	ppbv	99
21) Allyl Chloride	2.094	41	81713	9.161	ppbv	95
22) trans-1,2-Dichloroethene	2.337	96	48371	8.928	ppbv	95
23) Vinyl Acetate	2.457	43	153810	9.610	ppbv	99
24) 1,1-Dichloroethane	2.405	63	100265	9.588	ppbv	97
25) Ethyl Acetate	2.829	43	256501	8.971	ppbv	99
26) Hexane	2.823	57	113070	9.020	ppbv	98
27) Carbon Disulfide	2.149	76	123045	9.614	ppbv	97
28) Methyl tert-Butyl Ether	2.434	73	62777	10.202	ppbv	99
29) Chloroform	2.845	83	174043	9.768	ppbv	96
30) Cyclohexane	3.852	84	96123	9.146	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	117110	9.399	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	181566	9.560	ppbv	98
34) 2-Butanone	2.551	43	165780	9.266	ppbv	98
35) Carbon Tetrachloride	3.758	117	183287	9.527	ppbv	97
36) Benzene	3.651	78	228070	9.396	ppbv	99
37) 1,2-Dichloroethane	3.214	62	142060	10.006	ppbv	98
38) Trichloroethene	4.538	130	87145	9.177	ppbv	93
39) 1,2-Dichloropropane	4.302	63	82832	9.324	ppbv	99
40) 1,4-Dioxane	4.567	88	37417	9.370	ppbv #	94
41) Tetrahydrofuran	3.046	42	90689	9.179	ppbv	99
42) Bromodichloromethane	4.480	83	189395	9.670	ppbv	98
43) Methyl Methacrylate	4.865	69	115470	8.963	ppbv	99
44) 2,2,4-Trimethylpentane	4.632	57	385107	9.238	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	112967	9.406	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043213.D
 Acq On : 18 Nov 2025 15:24
 Operator : SY/MD
 Sample : VL1118ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1118ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 11/19/2025
 Supervised By :Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:35:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M

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

QLast Update : Wed Nov 19 01:11:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	130518	9.255	ppbv	99
47) 1,1,2-Trichloroethane	6.567	97	88389	9.375	ppbv	96
48) Dibromochloromethane	7.377	129	154832	9.552	ppbv	99
49) Bromoform	9.474	173	134624	9.377	ppbv	99
50) 4-Methyl-2-Pentanone	5.732	43	227676	9.034	ppbv	100
51) 2-Hexanone	7.425	43	178681	9.130	ppbv #	100
52) Tetrachloroethene	8.218	164	80037	8.865	ppbv	96
53) Toluene	6.923	91	264384	9.199	ppbv	99
54) 1,2-Dibromoethane	7.645	107	132155	9.526	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.917	131	142171	9.432	ppbv	98
57) Chlorobenzene	8.914	112	200166	9.505	ppbv	98
58) Ethyl Benzene	9.348	91	375021	9.500	ppbv	99
59) m/p-Xylene	9.545	91	595409m	18.812	ppbv	
60) o-Xylene	9.956	91	293838	9.293	ppbv	99
61) Styrene	9.862	104	131154	9.478	ppbv	99
62) Isopropylbenzene	10.532	105	532270	9.410	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	185351	9.213	ppbv	99
64) n-propylbenzene	10.982	120	134605	9.261	ppbv	96
65) tert-Butylbenzene	11.526	119	458253	9.071	ppbv	98
66) Benzyl Chloride	11.610	91	43604	8.505	ppbv	98
67) sec-Butylbenzene	11.762	105	643089	9.120	ppbv	100
69) p-Isopropyltoluene	11.921	119	546654	9.151	ppbv	99
70) n-Butylbenzene	12.277	91	547505	9.448	ppbv	100
71) 2-Chlorotoluene	10.895	91	410121	9.432	ppbv	99
72) 4-Ethyltoluene	11.118	105	361508	9.389	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	302506	9.362	ppbv	94
74) 1,2,4-Trimethylbenzene	11.532	105	325533	9.232	ppbv	92
75) 1,3-Dichlorobenzene	11.604	146	190669	9.266	ppbv	98
76) 1,4-Dichlorobenzene	11.668	146	189947	9.229	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	178522	9.023	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	139303	8.437	ppbv	99
79) Naphthalene	13.507	128	307459	9.817	ppbv	100
80) Naphthalene,2-methyl-	14.452	142	78304	9.525	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	137086	9.787	ppbv	98

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

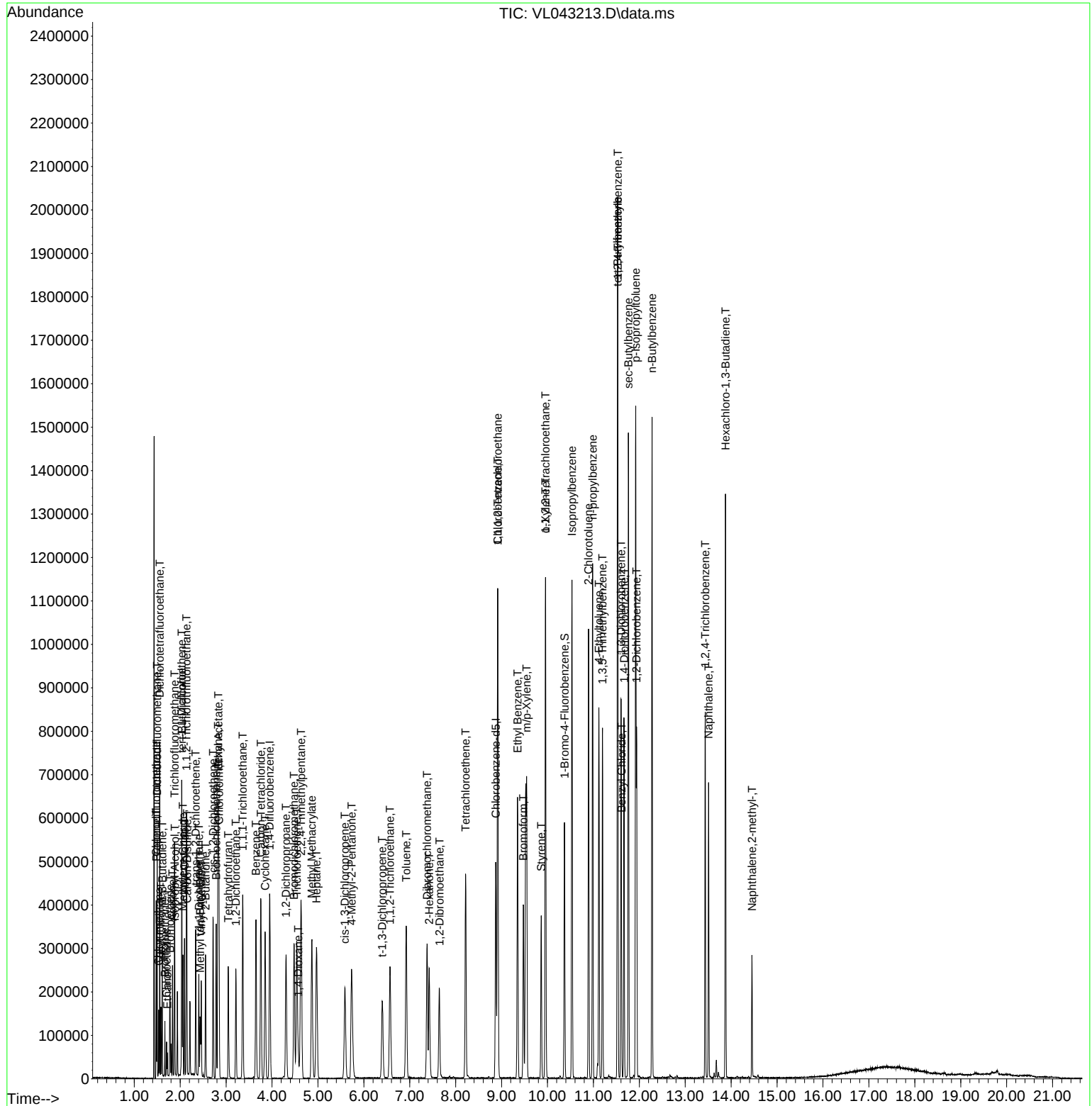
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111825\
 Data File : VL043213.D
 Acq On : 18 Nov 2025 15:24
 Operator : SY/MD
 Sample : VL1118ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1118ABS01

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 11/19/2025
 Supervised By : Mahesh Dadoda 11/19/2025

Quant Time: Nov 19 01:35:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration



Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL043203.D	1,1,1,2-Tetrachloroethane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	1,1,2-Trichloroethane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	1,4-Dioxane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	cis-1,3-Dichloropropene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Ethyl Acetate	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Heptane	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	m/p-Xylene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Methyl Methacrylate	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICC0.5	VL043203.D	Toluene	sam	11/19/2025 8:29:16 AM	MMDadoda	11/19/2025 9:42:12 AM	Peak Integrated by Software
VSTDICCC010	VL043204.D	m/p-Xylene	sam	11/19/2025 8:29:20 AM	MMDadoda	11/19/2025 9:42:15 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	1,1,2-Trichloroethane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	1,4-Dioxane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Benzene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC002	VL043205.D	Dibromochloromethane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Heptane	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	m/p-Xylene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	t-1,3-Dichloropropene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC002	VL043205.D	Trichloroethene	sam	11/19/2025 8:30:50 AM	MMDadoda	11/19/2025 9:42:20 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	1,4-Dioxane	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	2,2,4-Trimethylpentane	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	m/p-Xylene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	t-1,3-Dichloropropene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC001	VL043206.D	Trichloroethene	sam	11/19/2025 8:31:27 AM	MMDadoda	11/19/2025 9:42:23 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,1,1-Trichloroethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,1,2,2-Tetrachloroethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	1,2-Dibromoethane	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL043208.D	Carbon Tetrachloride	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Naphthalene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Tetrachloroethene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.1	VL043208.D	Trichloroethene	sam	11/19/2025 8:31:38 AM	MMDadoda	11/19/2025 9:42:32 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	1,1,1-Trichloroethane	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	1,1,2,2-Tetrachloroethane	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Carbon Tetrachloride	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Tetrachloroethene	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Trichloroethene	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC0.03	VL043209.D	Vinyl Chloride	sam	11/19/2025 8:31:44 AM	MMDadoda	11/19/2025 9:42:35 AM	Peak Integrated by Software
VSTDICC015	VL043210.D	m/p-Xylene	sam	11/19/2025 8:32:26 AM	MMDadoda	11/19/2025 9:42:39 AM	Peak Integrated by Software
VSTDICC015	VL043210.D	Propene	sam	11/19/2025 8:32:26 AM	MMDadoda	11/19/2025 9:42:39 AM	Peak Integrated by Software
VSTDICV010	VL043211.D	m/p-Xylene	sam	11/19/2025 8:31:49 AM	MMDadoda	11/19/2025 9:43:04 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL11825

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV010	VL043211.D	Propene	sam	11/19/2025 8:31:49 AM	MMDadoda	11/19/2025 9:43:04 AM	Peak Integrated by Software
VL118ABS01	VL043213.D	m/p-Xylene	sam	11/19/2025 8:29:29 AM	MMDadoda	11/19/2025 9:43:08 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	2-Butanone	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Carbon Tetrachloride	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Chlorodifluoromethane	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Chloroform	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Cyclohexane	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Heptane	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	m/p-Xylene	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Methylene Chloride	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3651-03DUP	VL043215.D	Tetrachloroethene	sam	11/19/2025 8:31:54 AM	MMDadoda	11/19/2025 9:43:16 AM	Peak Integrated by Software
Q3650-03	VL043218.D	2,2,4-Trimethylpentane	sam	11/19/2025 8:32:11 AM	MMDadoda	11/19/2025 9:43:25 AM	Peak Integrated by Software
Q3650-03	VL043218.D	Carbon Tetrachloride	sam	11/19/2025 8:32:11 AM	MMDadoda	11/19/2025 9:43:25 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3650-03	VL043218.D	Chlorodifluoromethane	sam	11/19/2025 8:32:11 AM	MMDadoda	11/19/2025 9:43:25 AM	Peak Integrated by Software
Q3650-03	VL043218.D	m/p-Xylene	sam	11/19/2025 8:32:11 AM	MMDadoda	11/19/2025 9:43:25 AM	Peak Integrated by Software
Q3650-03	VL043218.D	Methyl Methacrylate	sam	11/19/2025 8:32:11 AM	MMDadoda	11/19/2025 9:43:25 AM	Peak Integrated by Software
Q3650-04	VL043219.D	Carbon Tetrachloride	sam	11/19/2025 8:32:31 AM	MMDadoda	11/19/2025 9:43:28 AM	Peak Integrated by Software
Q3650-04	VL043219.D	Chlorodifluoromethane	sam	11/19/2025 8:32:31 AM	MMDadoda	11/19/2025 9:43:28 AM	Peak Integrated by Software
Q3650-04	VL043219.D	m/p-Xylene	sam	11/19/2025 8:32:31 AM	MMDadoda	11/19/2025 9:43:28 AM	Peak Integrated by Software
Q3650-04	VL043219.D	Methyl Methacrylate	sam	11/19/2025 8:32:31 AM	MMDadoda	11/19/2025 9:43:28 AM	Peak Integrated by Software
Q3650-04	VL043219.D	Toluene	sam	11/19/2025 8:32:31 AM	MMDadoda	11/19/2025 9:43:28 AM	Peak Integrated by Software
Q3650-04	VL043219.D	Trichlorofluoromethane	sam	11/19/2025 8:32:31 AM	MMDadoda	11/19/2025 9:43:28 AM	Peak Integrated by Software
Q3650-05	VL043220.D	2,2,4-Trimethylpentane	sam	11/19/2025 8:29:57 AM	MMDadoda	11/19/2025 9:43:32 AM	Peak Integrated by Software
Q3650-05	VL043220.D	Benzene	sam	11/19/2025 8:29:57 AM	MMDadoda	11/19/2025 9:43:32 AM	Peak Integrated by Software
Q3650-05	VL043220.D	Carbon Tetrachloride	sam	11/19/2025 8:29:57 AM	MMDadoda	11/19/2025 9:43:32 AM	Peak Integrated by Software
Q3650-05	VL043220.D	Chlorodifluoromethane	sam	11/19/2025 8:29:57 AM	MMDadoda	11/19/2025 9:43:32 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL11825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3650-05	VL043220.D	m/p-Xylene	sam	11/19/2025 8:29:57 AM	MMDadoda	11/19/2025 9:43:32 AM	Peak Integrated by Software
Q3650-05	VL043220.D	Methyl Methacrylate	sam	11/19/2025 8:29:57 AM	MMDadoda	11/19/2025 9:43:32 AM	Peak Integrated by Software
Q3650-05	VL043220.D	Trichlorofluoromethane	sam	11/19/2025 8:29:57 AM	MMDadoda	11/19/2025 9:43:32 AM	Peak Integrated by Software
Q3650-06	VL043221.D	Carbon Tetrachloride	sam	11/19/2025 8:32:37 AM	MMDadoda	11/19/2025 9:43:35 AM	Peak Integrated by Software
Q3650-06	VL043221.D	Chlorodifluoromethane	sam	11/19/2025 8:32:37 AM	MMDadoda	11/19/2025 9:43:35 AM	Peak Integrated by Software
Q3650-06	VL043221.D	Toluene	sam	11/19/2025 8:32:37 AM	MMDadoda	11/19/2025 9:43:35 AM	Peak Integrated by Software
Q3650-06	VL043221.D	Trichlorofluoromethane	sam	11/19/2025 8:32:37 AM	MMDadoda	11/19/2025 9:43:35 AM	Peak Integrated by Software
Q3650-01	VL043225.D	Tetrachloroethene	sam	11/19/2025 8:32:06 AM	MMDadoda	11/19/2025 9:43:55 AM	Peak Integrated by Software
Q3650-02	VL043226.D	Cyclohexane	sam	11/19/2025 8:29:52 AM	MMDadoda	11/19/2025 9:43:58 AM	Peak Integrated by Software
Q3650-02	VL043226.D	Heptane	sam	11/19/2025 8:29:52 AM	MMDadoda	11/19/2025 9:43:58 AM	Peak Integrated by Software
Q3650-02	VL043226.D	m/p-Xylene	sam	11/19/2025 8:29:52 AM	MMDadoda	11/19/2025 9:43:58 AM	Peak Integrated by Software
Q3650-02	VL043226.D	Tetrachloroethene	sam	11/19/2025 8:29:52 AM	MMDadoda	11/19/2025 9:43:58 AM	Peak Integrated by Software
Q3650-02	VL043226.D	Toluene	sam	11/19/2025 8:29:52 AM	MMDadoda	11/19/2025 9:43:58 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VL111825

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 9:44:32 AM
SubDirectory	VL111825	HP Acquire Method	TO15AIR
		HP Processing Method	VL111825AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2691		
Initial Calibration Stds	AP2694,AP2695,AP2696		
CCC	AP2694		
Internal Standard/PEM	AP2691		
ICV/I.BLK	AP2697		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043202.D	18 Nov 2025 08:46	SY/MD	Ok
2	VSTDIC0.5	VL043203.D	18 Nov 2025 09:29	SY/MD	Ok,M
3	VSTDICCC010	VL043204.D	18 Nov 2025 10:02	SY/MD	Ok,M
4	VSTDIC002	VL043205.D	18 Nov 2025 10:37	SY/MD	Ok,M
5	VSTDIC001	VL043206.D	18 Nov 2025 11:10	SY/MD	Ok,M
6	VSTDIC0.5	VL043207.D	18 Nov 2025 11:43	SY/MD	Not Ok
7	VSTDIC0.1	VL043208.D	18 Nov 2025 12:16	SY/MD	Ok,M
8	VSTDIC0.03	VL043209.D	18 Nov 2025 12:49	SY/MD	Ok,M
9	VSTDIC015	VL043210.D	18 Nov 2025 13:24	SY/MD	Ok,M
10	VSTDICV010	VL043211.D	18 Nov 2025 13:56	SY/MD	Ok,M
11	VL1118ABL01	VL043212.D	18 Nov 2025 14:41	SY/MD	Ok
12	VL1118ABS01	VL043213.D	18 Nov 2025 15:24	SY/MD	Ok,M
13	Q3651-03	VL043214.D	18 Nov 2025 15:57	SY/MD	Dilution
14	Q3651-03DUP	VL043215.D	18 Nov 2025 16:31	SY/MD	Ok,M
15	Q3651-04	VL043216.D	18 Nov 2025 17:06	SY/MD	Dilution
16	Q3651-06	VL043217.D	18 Nov 2025 17:40	SY/MD	Dilution
17	Q3650-03	VL043218.D	18 Nov 2025 18:15	SY/MD	Ok,M
18	Q3650-04	VL043219.D	18 Nov 2025 18:49	SY/MD	Ok,M
19	Q3650-05	VL043220.D	18 Nov 2025 19:23	SY/MD	Ok,M
20	Q3650-06	VL043221.D	18 Nov 2025 19:58	SY/MD	Ok,M
21	Q3651-01	VL043222.D	18 Nov 2025 20:29	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM		
Supervise By	Maresh Dadoda	Supervise On	11/19/2025 9:44:32 AM		
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2691				
Initial Calibration Stds	AP2694,AP2695,AP2696				
CCC	AP2694				
Internal Standard/PEM	AP2691				
ICV/I.BLK	AP2697				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q3651-02	VL043223.D	18 Nov 2025 21:01	SY/MD	Ok,M
23	Q3651-05	VL043224.D	18 Nov 2025 21:33	SY/MD	Ok,M
24	Q3650-01	VL043225.D	18 Nov 2025 22:05	SY/MD	Ok,M
25	Q3650-02	VL043226.D	18 Nov 2025 22:37	SY/MD	Ok,M
26	Q3651-03DL	VL043227.D	18 Nov 2025 23:09	SY/MD	Ok,M
27	Q3651-03DL	VL043228.D	18 Nov 2025 23:41	SY/MD	Not Ok
28	Q3651-04DL	VL043229.D	19 Nov 2025 00:13	SY/MD	Ok,M
29	Q3651-06DL	VL043230.D	19 Nov 2025 00:44	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM		
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2691
Initial Calibration Stds	AP2694,AP2695,AP2696
CCC	AP2694
Internal Standard/PEM	AP2691
ICV/I.BLK	AP2697
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043202.D	18 Nov 2025 08:46		SY/MD	Ok
2	VSTDIC0.5	VSTDIC0.5	VL043203.D	18 Nov 2025 09:29		SY/MD	Ok,M
3	VSTDICCC010	VSTDICCC010	VL043204.D	18 Nov 2025 10:02	LR-20	SY/MD	Ok,M
4	VSTDIC002	VSTDIC002	VL043205.D	18 Nov 2025 10:37		SY/MD	Ok,M
5	VSTDIC001	VSTDIC001	VL043206.D	18 Nov 2025 11:10		SY/MD	Ok,M
6	VSTDIC0.5	VSTDIC0.5	VL043207.D	18 Nov 2025 11:43	Not used	SY/MD	Not Ok
7	VSTDIC0.1	VSTDIC0.1	VL043208.D	18 Nov 2025 12:16		SY/MD	Ok,M
8	VSTDIC0.03	VSTDIC0.03	VL043209.D	18 Nov 2025 12:49		SY/MD	Ok,M
9	VSTDIC015	VSTDIC015	VL043210.D	18 Nov 2025 13:24		SY/MD	Ok,M
10	VSTDICV010	ICVVL111825	VL043211.D	18 Nov 2025 13:56	ICV failed for com.#66	SY/MD	Ok,M
11	VL1118ABL01	VL1118ABL01	VL043212.D	18 Nov 2025 14:41		SY/MD	Ok
12	VL1118ABS01	VL1118ABS01	VL043213.D	18 Nov 2025 15:24		SY/MD	Ok,M
13	Q3651-03	IA1	VL043214.D	18 Nov 2025 15:57	Need 20X	SY/MD	Dilution
14	Q3651-03DUP	IA1DUP	VL043215.D	18 Nov 2025 16:31		SY/MD	Ok,M
15	Q3651-04	IA2	VL043216.D	18 Nov 2025 17:06	Need 10X	SY/MD	Dilution
16	Q3651-06	IA3	VL043217.D	18 Nov 2025 17:40	Need 10X	SY/MD	Dilution
17	Q3650-03	IA1	VL043218.D	18 Nov 2025 18:15		SY/MD	Ok,M
18	Q3650-04	IA2	VL043219.D	18 Nov 2025 18:49		SY/MD	Ok,M

Instrument ID: MSVOA_L

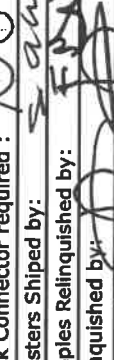
Daily Analysis Runlog For Sequence/QC Batch ID # VL111825

Review By	Semsettin Yesilyurt	Review On	11/19/2025 8:33:42 AM		
Supervise By	Mahesh Dadoda	Supervise On	11/19/2025 9:44:32 AM		
SubDirectory	VL111825	HP Acquire Method	TO15AIR	HP Processing Method	VL111825AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2691				
Initial Calibration Stds	AP2694,AP2695,AP2696				
CCC	AP2694				
Internal Standard/PEM	AP2691				
ICV/I.BLK	AP2697				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q3650-05	IA3	VL043220.D	18 Nov 2025 19:23		SY/MD	Ok,M
20	Q3650-06	OA1	VL043221.D	18 Nov 2025 19:58		SY/MD	Ok,M
21	Q3651-01	SV1	VL043222.D	18 Nov 2025 20:29		SY/MD	Ok,M
22	Q3651-02	SV2	VL043223.D	18 Nov 2025 21:01		SY/MD	Ok,M
23	Q3651-05	SV3	VL043224.D	18 Nov 2025 21:33		SY/MD	Ok,M
24	Q3650-01	SV1	VL043225.D	18 Nov 2025 22:05		SY/MD	Ok,M
25	Q3650-02	SV2	VL043226.D	18 Nov 2025 22:37		SY/MD	Ok,M
26	Q3651-03DL	IA1DL	VL043227.D	18 Nov 2025 23:09		SY/MD	Ok,M
27	Q3651-03DL	IA1DL	VL043228.D	18 Nov 2025 23:41	Not Required	SY/MD	Not Ok
28	Q3651-04DL	IA2DL	VL043229.D	19 Nov 2025 00:13		SY/MD	Ok,M
29	Q3651-06DL	IA3DL	VL043230.D	19 Nov 2025 00:44		SY/MD	Ok,M

M : Manual Integration

Client Contact Information		Bottle Order ID : B2511013		Courier : F Galdun		1 of 6 COCs																		
Client ID : GFELO1		Project ID : 74-18-00000-1111-51-010000-NY		Sampler Name(s): FRANK GILDUN		Analysis																		
Customer Name : GFE LLC		Project Manager : FRANK GILDUN		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified		Matrix																		
Address : 58 Nokomis Ave		Phone Number : 646-542-3465																						
		Fax Number : 973-334-1692																						
City : Lake Hiawatha		Site Details: 4708 472 WESTBURY AVE																						
State : NJ		CARME PULLEY NY																						
Zip Code : 07034		Analysis Turnaround Time 5 DAY																						
Country :		Standard : 10 business days OR 5 Days		Data Package Type RESULTS ONLY																				
		Rush (Specify):		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									
901	11/15/15	11:15	1:15	68	68	68	68	-30	-4.7	10511	10294	50	VL043082.D	TO-15	1									
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
Stop																								
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																								
** Submittal of this COC indicates approval of the analysis based on existing conditions.																								
Please follow the instructions on the back of this COC.																								
Special Instructions/QC Requirements & Comments :																								
Suspected Contamination: High Medium Low																								
Sampling site (State):																								
Quick Connector required : NO																								
Canisters Shipped by: Sony				Date/Time: 11/10/15				Canisters Received by: <i>[Signature]</i>				Date/Time: 11/14/15												
Samples Relinquished by: <i>[Signature]</i>				Date/Time: 11/14/15				Received by: <i>[Signature]</i>				Date/Time: 11-14-25 1230												
Relinquished by: <i>[Signature]</i>				Date/Time: 11-14-25 1323				Received by: <i>[Signature]</i>				Date/Time: 11-14-25 1230												
B2511013 - 4																								

Client Contact Information		Bottle Order ID : B2511013		Courier : F. Galdun		2 of 6 COCs																											
Client ID : GFEL01		Project ID : 74-16-Suppose Hillside, NJ		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																															
		Fax Number : 973-334-1692																															
City : Lake Hiawatha		Analysis Turnaround Time : 5 DAY																															
State : NJ		Standard : 40 business days OR																															
Zip Code : 07034		Rush (Specify): 5 Days																															
Country :																																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum Field ("Hg) (Start)	Can Vacuum 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																		
952	11/14/03	11:07	1:07	6	6	68	68	-29.5	-5.1	10649	10279	6 L	50	VL043047.D	1																		
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table> Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop			Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																															
Start																																	
Stop																																	
Ambient	Maximum	Minimum																															
Start																																	
Stop																																	
GC/MS Analyst Signature (TO-15) 																																	
** Submittal of this COC indicates approval of the analysis based on existing conditions. Report only those ANALYTES on the ATTACHED LIST. Please follow the instructions on the back of this COC.																																	
Special Instructions/QC Requirements & Comments :																																	
Suspected Contamination: High Medium Low																																	
Sampling site (State):																																	
Quick Connector required : N/A																																	
Canisters Shipped by: sam																																	
Samples Relinquished by: FPA																																	
Relinquished by: 																																	
Date/Time: 11/14/03																																	
Date/Time: 11/14/03																																	
Date/Time: 11/14/03																																	
B2511013 - 2																																	

Client Contact Information		Bottle Order ID : B2511013	Courier : F. GARDUN	COCs									
Client ID : GFEL01	Project ID : 74-16 Cypress Hill St, Glendale NY	Sampler Name(s) : FRANK GARDUN		Analysis	Matrix								
Customer Name : GFE LLC	Project Manager : FRANK GARDUN	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	Site Details: 4706 472 WESTBURY AVE CARLE PLACE, NY												
Zip Code : 07034	Analysis Turnaround Time : 5 DAY	Standard : 10 business days	OR	Data Package Type : REQUEST ONLY	Indoor Ambient Air TO-15 Soil Gas								
Country : USA	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)
IAI	11/15/11 11:00	11:00	11:00	26	1.5	68	68	-30	-3-9	10502	10154	50	VL043047.D
Temperature (Fahrenheit) Ambient Minimum Start Stop													
Pressure (Inches of Hg) Ambient Minimum Start Stop													
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium Low Sampling site (State): Quick Connector required : NO Canisters Shipped by: Sam Samples Relinquished by: Sam Relinquished by: Sam													
PID Readings: 0.0 ** 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.													
GC/MS Analyst Signature (TO-15) [Signature]													
Date/Time: 11/14/25 Date/Time: 11/14/25 Date/Time: 11/14/25 12:30													
B2511013 - 1													

Client Contact Information		Bottle Order ID : B2511012	Counter : F Galdun		4 of 6 COCs	
Client ID : GFEL01		Project ID : 74-16 Cypress Hill St, Glendale NY		Sampler Name(s) : FRANK GILDUN		Analysis
Customer Name : GFE LLC		Project Manager : FRANK GILDUN		AIR ANALYSIS		Matrix
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY		
City : Lake Hiawatha		Fax Number : 973-334-1692		Batch Certified		
State : NJ		Analysis Turnaround Time : 5 DAY				
Zip Code : 07034		Standard : 10 Business 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)
IAZ	11/29	12:50	12:30	5	5	68
						68
						Out going Can Pressure ("Hg)(Lab)
						-29.5
						In coming Can Pressure ("Hg)(Lab)
						-3.5
						Flow Reg. ID
						10550
						Can ID
						10275
						6 L
						50
						Flow Controller Readout (ml/min)
						Can Cert ID
						VL043047.D
						Indoor/ Ambient Air
						TO-15
						Soil Gas
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>						
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.						
Special Instructions/QC Requirements & Comments :						
Suspected Contamination: High Medium Low PID Readings: 0.0						
Sampling site (State):						
Quick Connector required : NO						
Canisters Shipped by:		Date/Time: 11/10/14		Canisters Received by:		Date/Time: 11/14/14
Samples Relinquished by:		Date/Time: 11/14/14		Received by:		Date/Time: 11-14-23 1230
Relinquished by:		Date/Time: 11-14-23 1230		Received by:		Date/Time:

Client Contact Information		Bottle Order ID : B2511012	Courier : FRANK GALDUN	6 of 6 COCs																														
Client ID : GFEL01	Project ID : 74-16 Cypress Hill St, Glendale NY	Sampler Name(s) : FRANK GALDUN																																
Customer Name : GFE LLC	Project Manager : FRANK GALDUN	Analysis																																
Address : 58 Nokomis Ave	Phone Number : 646-542-3465	Matrix																																
	Fax Number : 973-324-1692																																	
City : Lake Hiawatha	Site Details: 4704472 WESTBURY AVE	AIR ANALYSIS																																
State : NJ	CARE-PLACE NY	CHAIN-OF-CUSTODY																																
Zip Code : 07034	Analysis Turnaround Time : 5 DAY	Individual Certified																																
Country :	Standard : 10 business days OR 5 Days	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	Indoor Ambient Air	Soil Gas																		
IT'S	11/12/25 11:00	11:00	1:00	30	4.25	68	68	-30	-5.1	10579	10198	50	VL043047.D	1																				
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table> Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																	Ambient	Maximum	Minimum	Start			Stop			Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																																
Start																																		
Stop																																		
Ambient	Maximum	Minimum																																
Start																																		
Stop																																		
GC/MS Analyst Signature (TO-15) SAT																																		
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.																																		
Special Instructions/QC Requirements & Comments :																																		
Suspected Contamination: High Medium Low																																		
Sampling site (State):																																		
Quick Connector required : NO																																		
Canisters Shipped by: Sam																																		
Samples Relinquished by: Sam																																		
Relinquished by: Sam																																		
Date/Time: 11/14/25																																		
Date/Time: 11-14-23 1230																																		
Date/Time: 11-14-23 1303																																		
B2511012 - 3																																		

Client Contact Information				Bottle Order ID : B2511012				Courier : F Galdun				6 of 6 COCs				
Client ID : GFE01				Project ID : 24-10-2023-001 ST. Glendale NY				Sampler Name(s) : Frank Galdun				Analysis Matrix				
Customer Name : GFE LLC				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified								
Address : 58 Nokomis Ave				Phone Number : 646-542-3465												
				Fax Number : 973-334-1692												
City : Lake Hiawatha				Site Details: 1708472 Westbury Ave. CARLE PLACE, NY												
State : NJ				Analysis Turnaround Time 5 DAY												
Zip Code : 07034				Standard : 10 business days OR				Data Package Type : RESULTS ONLY								
Country :				Rush (Specify): 5 Days				EDD Type : RDE								
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
DAI 11/12/23		11/12/23	11:05	11:09	over 30	4	40	41	-30	-3.9	10525	10197	6 L	50	VL043047.D	
Temperature (Fahrenheit)																
		Ambient			Maximum			Minimum								
Start		40														
Stop		41														
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 : N/A																
Canisters Shipped by: S & M				Date/Time: 11/10/23				Canisters Received by: [Signature]				Date/Time: 11-14-23 12:30				
Samples Relinquished by: [Signature]				Date/Time: 11/14/23				Received by: [Signature]				Date/Time: 11-14-23 12:30				
Relinquished by: [Signature]				Date/Time: 11-14-23 13:33				Received by: [Signature]				Date/Time: 11-14-23 12:30				
B2511012 - 2																

Internal Chain of Custody

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Location: 284 Sheffield Street, Mountainside, NJ 7092

Analytical Parameter/Fraction/OCMS.Group2

Date Broken: 11/14/2025

12:30:00

Sample No.	Alliquot/Extract No.	Sample No.	Alliquot/Extract No.
Q3650-01	SV1		
Q3650-02	SV2		
Q3650-03	IA1		
Q3650-04	IA2		
Q3650-05	IA3		
Q3650-06	OA1		

[illegible]

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

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

METHOD: TO-15

Analyst Signature: Supervisor Signature: 

Pressure Gauge ID: A2 55971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
11/10/25	Q3594-01	10595	13.6	-2.2				sy
11/11/25	Q3626-01	10682	10.8	-8.0				sy
11/12/25	Q3626-02	10413	9.6	-10.4				
	Q3626-03	10450	10.0	-9.6				
	Q3626-04	10677	10.0	-9.6				
	Q3626-05	10464	9.8	-10.0				
	Q3626-06	10435	10.8	-8.0				
	Q3626-07	10471	9.4	-10.8				
	Q3626-08	10046	9.4	-10.8				
	Q3626-09	10673	9.4	-10.8				
	Q3626-10	10416	11.0	-7.5				
	Q3626-11	10123	9.6	-10.4				
	Q3626-12	10794	10.2	-9.2				
11/12/25	Q3627-01	10608	10.8	-8.0				
	Q3627-02	10321	11.4	-6.7				
	Q3627-03	10590	13.4	-2.7				
	Q3627-04	10650	9.2	-11.2				
	Q3627-05	10793	9.6	-10.4				
11/14/25	Q3650-01	10294	12.4	-4.7				
	Q3650-02	10279	12.2	-5.1				
	Q3650-03	10154	12.8	-3.9				

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature:  METHOD: TO-15

Supervisor Signature: 

Pressure Gauge ID: A755971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
11/14/25	Q3650-04	10275	13.0	-3.5				
11/14/25	Q3650-05	10198	12.2	-5.1				
11/14/25	Q3650-06	10197	12.8	-3.9				
11/14/25	Q3651-01	10281	12.0	-5.5				
11/14/25	Q3651-02	10606	12.8	-3.9				
11/14/25	Q3651-03	10331	12.6	-4.3				
11/14/25	Q3651-04	10320	12.4	-4.7				
11/14/25	Q3651-05	10315	12.8	-3.9				
11/14/25	Q3651-06	10280	12.8	-3.9				
11/14/25	Q3655-01	10669	9.8	-10.0				
11/14/25	Q3655-02	10795	9.2	-11.2				
11/14/25	Q3655-03	10800	10.0	-9.6				
11/14/25	Q3655-04	10656	9.4	-10.8				
11/14/25	Q3655-05	10120	9.6	-10.4				
11/14/25	Q3655-06	10679	9.8	-10.0				

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Process Report

Order ID : Q3650

Date	Bottle ID	Lab Sample Number	Incoming Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/17/2025	B2511012	Q3650-04	-3.5	10275	6 L	10550		C2509005	VL043047.D Seq: VL100625 TUNE: VL043043.D ICAL: VL043037.D CCAL: VL043044.D MB: VL043045.D
11/17/2025	B2511012	Q3650-05	-5.1	10198	6 L	10579		C2509005	VL043047.D Seq: VL100625 TUNE: VL043043.D ICAL: VL043037.D CCAL: VL043044.D MB: VL043045.D
11/17/2025	B2511012	Q3650-06	-3.9	10197	6 L	10525		C2509005	VL043047.D Seq: VL100625 TUNE: VL043043.D ICAL: VL043037.D CCAL: VL043044.D MB: VL043045.D
11/17/2025	B2511013	Q3650-01	-4.7	10294	6 L	10511		C2510001	VL043082.D Seq: VL100925 TUNE: VL043078.D ICAL: VL043037.D CCAL: VL043079.D MB: VL043080.D
11/17/2025	B2511013	Q3650-02	-5.1	10279	6 L	10649		C2509005	VL043047.D Seq: VL100625 TUNE: VL043043.D ICAL: VL043037.D CCAL: VL043044.D MB: VL043045.D
11/17/2025	B2511013	Q3650-03	-3.9	10154	6 L	10502		C2509005	VL043047.D Seq: VL100625 TUNE: VL043043.D ICAL: VL043037.D CCAL: VL043044.D MB: VL043045.D

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

Client Sample ID #: SV2
 Client Name: 4708472 WESTBURY
 Project Name: SV2
 Date: 11/11 Time: 10:15
 Analysis: _____
 Comments: _____
 CHEMTECH'S SAMPLE
 Date Received: _____
 Disposal: _____

Storage Location: VOA Lab
Sample: Q3650-02
Cust #: SV2

B2511013

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

Client Sample ID #: SV2
 Client Name: 4708472 WESTBURY
 Project Name: SV2
 Date: 11/11 Time: 10:15
 Analysis: _____
 Comments: _____
 CHEMTECH'S SAMPLE
 Date Received: _____

Storage Location: VOA Lab
Sample: Q3650-03
Cust #: 1A1

B2511013

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

Client Sample ID #: SV2
 Client Name: 4708472 WESTBURY
 Project Name: SV2
 Date: 11/11 Time: 10:15
 Analysis: _____
 Comments: _____
 CHEMTECH'S SAMPLE
 Date Received: _____

Storage Location: VOA Lab
Sample: Q3650-01
Cust #: SV1

B2511013

CHEMTECH

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

Client Sample ID #:

Client Name:

Project Name:

Date:

Analysis:

Comments:

CHEMTECH'S S

Date Received:

Storage Location: VOA Lab

Sample: Q3650-05

Cust #: IA3

IA3
GFE
4704472 WISTBURY
11/11
10-15
62511012

CHEMTECH

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

Client Sample ID #:

Client Name:

Project Name:

Date:

Analysis:

Comments:

CHEMTECH'S S

Date Received:

Storage Location: VOA Lab

Sample: Q3650-04

Cust #: IA2

IA2
GFE
4704472 WISTBURY
11/11
10-15
62511012

Storage Location: VOA Lab

Sample: Q3650-06

Cust #: OA1

OA1
GFE
4704472 WISTBURY
11/11
10-15
62511012

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

CHEMTECH

CHEMTECH'S S

Date Received:

Comments:

Analysis:

Date:

Project Name:

Client Name:

Client Sample ID #: