



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2503034				Courier : FGALDUN				3 of 6 COCs				
Client ID : GFELO1 Project ID : 10, Sludge St.				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: 416 CLINTON, ST. HEMPSTEAD, NY												
City : Lake Hiawatha				Analysis Turnaround Time												
State : NJ				Standard : 10 business days OR				Data Package Type : LEVEL 2								
Zip Code : 07034				Rush (Specify): Days				EDD Type : RDE								
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
IAZR	3/21/25	7:47	3:47	30	4	65	68	-30	-4.7	10231	10024	6 L	12.5	VL042147.D	1	1
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]						
		Ambient	Maximum	Minimum												
Start																
Stop																
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. 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: Sam				Date/Time: 3/28/25				Canisters Received by: CD				Date/Time: 4-1-25 1010				
Samples Relinquished by: [Signature]				Date/Time:				Received by:				Date/Time:				
Relinquished by:				Date/Time:				Received by:				Date/Time:				

Client Contact Information				Bottle Order ID : B2503034				Courier : FGALDUN				4 of 6 COCs					
Client ID : GFELO1				Project ID : 10 Eldridge St.				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: 416 CLINTON ST. HENEPSTEAD, NY																	
City : Lake Hiawatha				Analysis Turnaround Time								Indoor Ambient Air Soil Gas					
State : NJ				Standard : 10 business days OR				Data Package Type : LEVEL 2									
Zip Code : 07034				Rush (Specify): Days				EDD Type : RF									
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		
IAB	2/3/25	7:44	3:44	OVER 30	6	60	10	-30	-8-4	10581	10158	6 L	12.5	VL042147.D	1		
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>Sybil</i>							
		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: 0,0																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: SEM				Date/Time: 03/28/25				Canisters Received by: AO				Date/Time: 4-1-25 10:10				B2503034 - 2	
Samples Relinquished by: FRANK				Date/Time:				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2503034				Courier : F Galdun				<u>5</u> of <u>6</u> COCs																	
Client ID : GFEL01 Project ID : 19 Eldridge St.				Sampler Name(s) : FRANK Galdun				Analysis				Matrix																	
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK Galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 416 CLINTON ST. HEMPSTEAD, NY																									
Analysis Turnaround Time				Standard : 10 business days OR				Data Package Type : LEVEL 2																					
Rush (Specify): _____ 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	<u>TO-15</u>	<u>Indoor Ambient Air</u>	<u>Soil Gas</u>												
IA3 DUP	3/31/25	7:43	3:43	30	5	68	70	-30	-7.1	10690	10326	6 L	12.5	VL042147.D	1	1													
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. 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>[Signature]</u>				Date/Time: <u>03/28/25</u>				Canisters Received by: <u>CF</u>				Date/Time: <u>4-1-25 1010</u>																	
Samples Relinquished by: <u>[Signature]</u>				Date/Time:				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	
B2503034 - 5																													

Client Contact Information				Bottle Order ID : B2503034				Courier : FGALDUN				6 of 6 COCs					
Client ID : GFELO1				Project ID : 10 Clinton St.				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 416 CLINTON ST. HEMPSTEAD													
				Analysis Turnaround Time				Data Package Type : LEVEL 2									
				Standard : 10 business days OR				EDD Type : PDF									
Country :				Rush (Specify): Days													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
OAI	3/31/25	7:41	3:41	0.5	5.5			-30	-39	10227	10197	6 L	12.5	VL042147.D	1	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 							
		Ambient	Maximum	Minimum													
Start		48															
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 <u>Low</u> PID Readings: <u>0.0</u>																	
Sampling site (State):																	
Quick Connector required : <u>NO</u>																	
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>3/28/25</u>				Canisters Received by: <u>CR</u>				Date/Time: <u>4-1-25 1010</u>				B2503034 - 3	
Samples Relinquished by: <u>FRANK</u>				Date/Time:				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Laboratory Certification

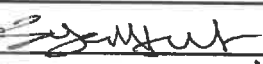
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
NORGE		Title: <u>Sample Custodian</u>	
Field Sample Seal No.: <u>Q1691</u>		Date Broken: <u>4/1/2025</u>	
Case No.: <u>416 Clinton St Hempstead</u>		Military Time Seal Broken: <u>10:10:00</u>	
		Analytical Parameter/Fraction: <u>TO-15</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1691-01	IA2R		
Q1691-02	IA3		
Q1691-03	IA3DUP		
Q1691-04	OA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
4/1	1335	Signature 	Signature 	
		Printed Name <u>George N.</u>	Printed Name <u>George N.</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

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: Q1691
Client: GFE LLC
Contact: Christina Perozzi

OrderDate: 4/1/2025 12:37:42 PM
Project: 416 Clinton St Hempstead
Location: I41

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1691-01	IA2R	Air	TO-15	TO-15	03/31/25		04/04/25	04/01/25
Q1691-02	IA3	Air	TO-15	TO-15	03/31/25		04/04/25	04/01/25
Q1691-03	IA3DUP	Air	TO-15	TO-15	03/31/25		04/04/25	04/01/25
Q1691-04	OA1	Air	TO-15	TO-15	03/31/25		04/04/25	04/01/25

Hit Summary Sheet
SW-846

SDG No.: Q1691
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	IA2R							
Q1691-01	IA2R	Air	Dichlorodifluoromethane	2.03	J	1.04	2.47	ug/m3
Q1691-01	IA2R	Air	Chloromethane	1.92		0.21	1.03	ug/m3
Q1691-01	IA2R	Air	Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
Q1691-01	IA2R	Air	Acetone	22.6		0.57	1.19	ug/m3
Q1691-01	IA2R	Air	Methylene Chloride	4.17		0.66	1.74	ug/m3
Q1691-01	IA2R	Air	2-Butanone	3.24		0.35	1.47	ug/m3
Q1691-01	IA2R	Air	Carbon Tetrachloride	0.75		0.060	0.19	ug/m3
Q1691-01	IA2R	Air	Chloroform	4.00		0.39	2.44	ug/m3
Q1691-01	IA2R	Air	Benzene	0.58	J	0.29	1.60	ug/m3
Q1691-01	IA2R	Air	Toluene	1.06	J	0.41	1.88	ug/m3
Q1691-01	IA2R	Air	Tetrachloroethene	1.49		0.14	0.20	ug/m3
Q1691-01	IA2R	Air	Hexane	1.59	J	0.39	1.76	ug/m3
Q1691-01	IA2R	Air	1,4-Dioxane	0.90	J	0.76	1.80	ug/m3
			Total Voc :	45.5				
			Total Concentration:	45.5				
Client ID:	IA3							
Q1691-02	IA3	Air	Dichlorodifluoromethane	1.88	J	1.04	2.47	ug/m3
Q1691-02	IA3	Air	Chloromethane	2.27		0.21	1.03	ug/m3
Q1691-02	IA3	Air	Tetrahydrofuran	0.56	J	0.38	1.47	ug/m3
Q1691-02	IA3	Air	Trichlorofluoromethane	1.24	J	0.90	2.81	ug/m3
Q1691-02	IA3	Air	Acetone	19.7		0.57	1.19	ug/m3
Q1691-02	IA3	Air	Methylene Chloride	1.84		0.66	1.74	ug/m3
Q1691-02	IA3	Air	2-Butanone	1.12	J	0.35	1.47	ug/m3
Q1691-02	IA3	Air	Carbon Tetrachloride	1.32		0.060	0.19	ug/m3
Q1691-02	IA3	Air	Chloroform	3.32		0.39	2.44	ug/m3
Q1691-02	IA3	Air	2,2,4-Trimethylpentane	0.47	J	0.47	2.34	ug/m3
Q1691-02	IA3	Air	Benzene	0.73	J	0.29	1.60	ug/m3
Q1691-02	IA3	Air	Toluene	1.21	J	0.41	1.88	ug/m3
Q1691-02	IA3	Air	Tetrachloroethene	0.54		0.14	0.20	ug/m3
Q1691-02	IA3	Air	m/p-Xylene	0.91	J	0.91	4.34	ug/m3
Q1691-02	IA3	Air	Styrene	0.64	J	0.47	2.13	ug/m3
Q1691-02	IA3	Air	Hexane	1.20	J	0.39	1.76	ug/m3
			Total Voc :	39.0				
			Total Concentration:	39.0				
Client ID:	IA3DUP							
Q1691-03	IA3DUP	Air	Dichlorodifluoromethane	2.03	J	1.04	2.47	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1691

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1691-03	IA3DUP	Air	Chloromethane	1.71		0.21	1.03	ug/m3
Q1691-03	IA3DUP	Air	Tetrahydrofuran	0.47	J	0.38	1.47	ug/m3
Q1691-03	IA3DUP	Air	Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
Q1691-03	IA3DUP	Air	Acetone	15.2		0.57	1.19	ug/m3
Q1691-03	IA3DUP	Air	Methylene Chloride	2.95		0.66	1.74	ug/m3
Q1691-03	IA3DUP	Air	2-Butanone	1.03	J	0.35	1.47	ug/m3
Q1691-03	IA3DUP	Air	Carbon Tetrachloride	1.13		0.060	0.19	ug/m3
Q1691-03	IA3DUP	Air	Chloroform	3.61		0.39	2.44	ug/m3
Q1691-03	IA3DUP	Air	2,2,4-Trimethylpentane	0.47	J	0.47	2.34	ug/m3
Q1691-03	IA3DUP	Air	Benzene	0.61	J	0.29	1.60	ug/m3
Q1691-03	IA3DUP	Air	Toluene	1.28	J	0.41	1.88	ug/m3
Q1691-03	IA3DUP	Air	Tetrachloroethene	2.03		0.14	0.20	ug/m3
Q1691-03	IA3DUP	Air	m/p-Xylene	0.96	J	0.91	4.34	ug/m3
Q1691-03	IA3DUP	Air	Styrene	0.60	J	0.47	2.13	ug/m3
Q1691-03	IA3DUP	Air	Hexane	1.90		0.39	1.76	ug/m3
			Total Voc :		37.2			
			Total Concentration:		37.2			
Client ID:	OA1							
Q1691-04	OA1	Air	Dichlorodifluoromethane	2.03	J	1.04	2.47	ug/m3
Q1691-04	OA1	Air	Chloromethane	1.12		0.21	1.03	ug/m3
Q1691-04	OA1	Air	Trichlorofluoromethane	1.18	J	0.90	2.81	ug/m3
Q1691-04	OA1	Air	Acetone	10.7		0.57	1.19	ug/m3
Q1691-04	OA1	Air	Methylene Chloride	1.70	J	0.66	1.74	ug/m3
Q1691-04	OA1	Air	2-Butanone	1.00	J	0.35	1.47	ug/m3
Q1691-04	OA1	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1691-04	OA1	Air	Benzene	0.51	J	0.29	1.60	ug/m3
Q1691-04	OA1	Air	Toluene	1.17	J	0.41	1.88	ug/m3
Q1691-04	OA1	Air	Tetrachloroethene	2.51		0.14	0.20	ug/m3
Q1691-04	OA1	Air	Hexane	0.81	J	0.39	1.76	ug/m3
			Total Voc :		23.2			
			Total Concentration:		23.2			

Project : 416 Clinton St Hempstead

Sampling Date : 03/31/25

Field Id Number : IA2R

Analysis Date : 04/04/25

Laboratory Id Number : Q1691-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.41	J	2.03		
Chloromethane	74-87-3	50.49	0.93		1.92		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.11	U	0.45		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	9.5		22.6		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1.2		4.17		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	1.1		3.24		
Carbon Tetrachloride	56-23-5	153.8	0.12		0.75		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.82		4		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.18	J	0.58		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	U	0.37		
Toluene	108-88-3	92.14	0.28	J	1.06		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : 416 Clinton St Hempstead

Sampling Date : 03/31/25

Field Id Number : IA2R

Analysis Date : 04/04/25

Laboratory Id Number : Q1691-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.22		1.49		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	0.45	J	1.59		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.25	J	0.9		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : 416 Clinton St Hempstead

Sampling Date : 03/31/25

Field Id Number : IA3

Analysis Date : 04/04/25

Laboratory Id Number : Q1691-02

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.38	J	1.88		
Chloromethane	74-87-3	50.49	1.1		2.27		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.19	J	0.56		
Trichlorofluoromethane	75-69-4	137.4	0.22	J	1.24		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.11	U	0.45		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	8.3		19.7		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.53		1.84		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.38	J	1.12		
Carbon Tetrachloride	56-23-5	153.8	0.21		1.32		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.68		3.32		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	J	0.47		
Benzene	71-43-2	78.11	0.23	J	0.73		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	U	0.37		
Toluene	108-88-3	92.14	0.32	J	1.21		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : 416 Clinton St Hempstead

Sampling Date : 03/31/25

Field Id Number : IA3

Analysis Date : 04/04/25

Laboratory Id Number : Q1691-02

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.08		0.54		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	J	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.15	J	0.64		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	0.34	J	1.2		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : 416 Clinton St Hempstead

Sampling Date : 03/31/25

Field Id Number : IA3DUP

Analysis Date : 04/04/25

Laboratory Id Number : Q1691-03

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.41	J	2.03		
Chloromethane	74-87-3	50.49	0.83		1.71		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.16	J	0.47		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.11	U	0.45		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	6.4		15.2		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.85		2.95		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.35	J	1.03		
Carbon Tetrachloride	56-23-5	153.8	0.18		1.13		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.74		3.61		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	J	0.47		
Benzene	71-43-2	78.11	0.19	J	0.61		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	U	0.37		
Toluene	108-88-3	92.14	0.34	J	1.28		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : 416 Clinton St Hempstead

Sampling Date : 03/31/25

Field Id Number : IA3DUP

Analysis Date : 04/04/25

Laboratory Id Number : Q1691-03

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.3		2.03		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.22	J	0.96		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.14	J	0.6		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	0.54		1.9		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : 416 Clinton St Hempstead

Sampling Date : 03/31/25

Field Id Number : OA1

Analysis Date : 04/04/25

Laboratory Id Number : Q1691-04

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.41	J	2.03		
Chloromethane	74-87-3	50.49	0.54		1.12		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.21	J	1.18		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	0.11	U	0.45		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	4.5		10.7		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.49	J	1.7		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	0.22	U	0.76		
2-Butanone	78-93-3	72.11	0.34	J	1		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.1	U	0.47		
Benzene	71-43-2	78.11	0.16	J	0.51		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	0.09	U	0.37		
Toluene	108-88-3	92.14	0.31	J	1.17		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : 416 Clinton St Hempstead

Sampling Date : 03/31/25

Field Id Number : OA1

Analysis Date : 04/04/25

Laboratory Id Number : Q1691-04

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.37		2.51		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.12	U	0.52		
m/p-Xylene	179601-23-1	106.2	0.21	U	0.91		
o-Xylene	95-47-6	106.2	0.12	U	0.52		
Styrene	100-42-5	104.1	0.11	U	0.47		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.11	U	0.54		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.08	U	0.39		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.08	U	0.42		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	0.12	U	0.59		
Hexane	110-54-3	86.17	0.23	J	0.81		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		



QC SUMMARY

Surrogate Summary

SDG No.: Q1691

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1691-01	IA2R	1-Bromo-4-Fluorobenzene	10	9.83	98	65	135
Q1691-01DUP	IA2RDUP	1-Bromo-4-Fluorobenzene	10	9.90	99	65	135
Q1691-02	IA3	1-Bromo-4-Fluorobenzene	10	9.78	98	65	135
Q1691-03	IA3DUP	1-Bromo-4-Fluorobenzene	10	9.82	98	65	135
Q1691-04	OA1	1-Bromo-4-Fluorobenzene	10	9.80	98	65	135
VL0404ABL01	VL0404ABL01	1-Bromo-4-Fluorobenzene	10	9.56	96	65	135
VL0404ABS01	VL0404ABS01	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1691

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL042220.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0404ABS01	Dichlorodifluoromethane	10	9.80	ppbv	98			70	130	
	Chloromethane	10	9.00	ppbv	90			70	130	
	Vinyl Chloride	10	8.20	ppbv	82			70	130	
	Bromomethane	10	8.50	ppbv	85			70	130	
	Chloroethane	10	8.70	ppbv	87			70	130	
	Tetrahydrofuran	10	8.80	ppbv	88			70	130	
	Trichlorofluoromethane	10	9.70	ppbv	97			70	130	
	1,1,2-Trichlorotrifluoroethane	10	8.90	ppbv	89			70	130	
	Dichlorotetrafluoroethane	10	9.70	ppbv	97			70	130	
	tert-Butyl Alcohol	10	8.30	ppbv	83			70	130	
	Heptane	10	8.50	ppbv	85			70	130	
	1,1-Dichloroethene	10	8.80	ppbv	88			70	130	
	Acetone	10	8.40	ppbv	84			70	130	
	Carbon disulfide	10	8.50	ppbv	85			70	130	
	Methyl tert-butyl Ether	10	8.50	ppbv	85			70	130	
	Methylene Chloride	10	7.90	ppbv	79			70	130	
	trans-1,2-Dichloroethene	10	8.70	ppbv	87			70	130	
	1,1-Dichloroethane	10	9.40	ppbv	94			70	130	
	Cyclohexane	10	8.50	ppbv	85			70	130	
	2-Butanone	10	9.20	ppbv	92			70	130	
	Carbon Tetrachloride	10	10.3	ppbv	103			70	130	
	cis-1,2-Dichloroethene	10	9.00	ppbv	90			70	130	
	Chloroform	10	10.1	ppbv	101			70	130	
	1,1,1-Trichloroethane	10	9.10	ppbv	91			70	130	
	2,2,4-Trimethylpentane	10	9.30	ppbv	93			70	130	
	Benzene	10	9.20	ppbv	92			70	130	
	1,2-Dichloroethane	10	10.6	ppbv	106			70	130	
	Trichloroethene	10	9.10	ppbv	91			70	130	
	1,2-Dichloropropane	10	9.10	ppbv	91			70	130	
	Bromodichloromethane	10	10.5	ppbv	105			70	130	
	4-Methyl-2-Pentanone	10	8.40	ppbv	84			70	130	
	Toluene	10	9.00	ppbv	90			70	130	
	t-1,3-Dichloropropene	10	8.20	ppbv	82			70	130	
	cis-1,3-Dichloropropene	10	8.40	ppbv	84			70	130	
	1,1,2-Trichloroethane	10	9.90	ppbv	99			70	130	
	Dibromochloromethane	10	10.2	ppbv	102			70	130	
	1,2-Dibromoethane	10	9.80	ppbv	98			70	130	
	Tetrachloroethene	10	8.50	ppbv	85			70	130	
	Chlorobenzene	10	10.1	ppbv	101			70	130	
	Ethyl Benzene	10	9.80	ppbv	98			70	130	
	m/p-Xylene	20	20.4	ppbv	102			70	130	
	o-Xylene	10	10.2	ppbv	102			70	130	
	Styrene	10	9.50	ppbv	95			70	130	
	Bromoform	10	9.90	ppbv	99			70	130	
	1,1,2,2-Tetrachloroethane	10	10.7	ppbv	107			70	130	
	2-Chlorotoluene	10	10.3	ppbv	103			70	130	
	1,3,5-Trimethylbenzene	10	10.4	ppbv	104			70	130	
	1,2,4-Trimethylbenzene	10	10.0	ppbv	100			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1691

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL042220.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0404ABS01	1,3-Dichlorobenzene	10	10.7	ppbv	107			70	130	
	1,4-Dichlorobenzene	10	10.7	ppbv	107			70	130	
	1,2-Dichlorobenzene	10	10.8	ppbv	108			70	130	
	1,2,4-Trichlorobenzene	10	9.20	ppbv	92			70	130	
	Hexachloro-1,3-butadiene	10	8.30	ppbv	83			70	130	
	Naphthalene	10	9.50	ppbv	95			70	130	
	1,3-Butadiene	10	8.60	ppbv	86			70	130	
	4-Ethyltoluene	10	10.5	ppbv	105			70	130	
	Hexane	10	8.80	ppbv	88			70	130	
	Allyl Chloride	10	8.60	ppbv	86			70	130	
	1,4-Dioxane	10	8.70	ppbv	87			70	130	
	Methyl methacrylate	10	8.60	ppbv	86			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q1691-01DUP	Q1691-01
Client Id :	IA2RDUP	IA2R
DF :	1	1
Datafile :	VL042222.D	VL042221.D
Anal Date & Time :	04/04/2025 13:20	04/04/2025 12:46

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0.19	0.25	27.3 *
2,2,4-Trimethylpentane	0	0	0
2-Butanone	1.1	1.1	0
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	9.7	9.5	2.1
Allyl Chloride	0	0	0
Benzene	0.18	0.18	0
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.11	0.12	8.7

Duplicate Sample Summary

Lab Sample Id :	Q1691-01DUP	Q1691-01
Client Id :	IA2RDUP	IA2R
DF :	1	1
Datafile :	VL042222.D	VL042221.D
Anal Date & Time :	04/04/2025 13:20	04/04/2025 12:46

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0.84	0.82	2.4
Chloromethane	0.96	0.93	3.2
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.41	0.41	0
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0.42	0.45	6.9
m/p-Xylene	0.17	0	200 *
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	1	1.2	18.2
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.27	0.22	20.4 *
Tetrahydrofuran	0.1	0	200 *
Toluene	0.28	0.28	0
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.23	0.21	9.1
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0404ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1691

SAS No.: Q1691 SDG NO.: Q1691

Lab File ID: VL042216.D

Lab Sample ID: VL0404ABL01

Date Analyzed: 04/04/2025

Time Analyzed: 09:41

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
VL0404ABS01	VL0404ABS01	VL042220.D	04/04/2025
IA2R	Q1691-01	VL042221.D	04/04/2025
IA2RDUP	Q1691-01DUP	VL042222.D	04/04/2025
IA3	Q1691-02	VL042224.D	04/04/2025
IA3DUP	Q1691-03	VL042225.D	04/04/2025
OA1	Q1691-04	VL042226.D	04/04/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1691 SAS No.: Q1691 SDG NO.: Q1691
Lab File ID: VL042171.D BFB Injection Date: 03/27/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:44
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	23
75	30.0 - 66.0% of mass 95	56.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.8
175	4.0 - 9.0% of mass 174	5.1 (8) 1
176	93.0 - 101.0% of mass 174	61.1 (95.7) 1
177	5.0 - 9.0% of mass 176	4.2 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042172.D	03/27/2025	08:26
VSTDICCC002	VSTDICCC002	VL042173.D	03/27/2025	08:59
VSTDICCC001	VSTDICCC001	VL042174.D	03/27/2025	09:30
VSTDICCC0.5	VSTDICCC0.5	VL042175.D	03/27/2025	10:01
VSTDICCC0.1	VSTDICCC0.1	VL042176.D	03/27/2025	10:32
VSTDICCC0.03	VSTDICCC0.03	VL042177.D	03/27/2025	11:03
VSTDICCC015	VSTDICCC015	VL042178.D	03/27/2025	11:36

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1691 SAS No.: Q1691 SDG NO.: Q1691
Lab File ID: VL042214.D BFB Injection Date: 04/04/2025
Instrument ID: MSVOA_L BFB Injection Time: 08:05
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.3
75	30.0 - 66.0% of mass 95	57.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.4) 1
174	50.0 - 120.0% of mass 95	61.2
175	4.0 - 9.0% of mass 174	4.5 (7.3) 1
176	93.0 - 101.0% of mass 174	57.3 (93.5) 1
177	5.0 - 9.0% of mass 176	3.6 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042215.D	04/04/2025	08:58
VL0404ABL01	VL0404ABL01	VL042216.D	04/04/2025	09:41
VL0404ABS01	VL0404ABS01	VL042220.D	04/04/2025	11:55
IA2R	Q1691-01	VL042221.D	04/04/2025	12:46
IA2RDUP	Q1691-01DUP	VL042222.D	04/04/2025	13:20
IA3	Q1691-02	VL042224.D	04/04/2025	14:26
IA3DUP	Q1691-03	VL042225.D	04/04/2025	15:50
OA1	Q1691-04	VL042226.D	04/04/2025	16:24

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1691 SAS No.: Q1691 SDG NO.: Q1691
 Lab File ID: VL042215.D Date Analyzed: 04/04/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:58
 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	187369	2.79	519347	3.96	464975	8.89
UPPER LIMIT	262317	3.12	727086	4.29	650965	9.22
LOWER LIMIT	112421	2.46	311608	3.63	278985	8.56
EPA SAMPLE NO.						
IA2R	193944	2.79	537035	3.96	465935	8.88
IA2RDUP	190677	2.79	525113	3.96	459228	8.89
IA3	191073	2.79	505458	3.96	449107	8.88
IA3DUP	191637	2.79	513363	3.96	453956	8.88
OA1	194580	2.78	518092	3.96	453107	8.88
VL0404ABL01	191004	2.79	523611	3.96	464191	8.89
VL0404ABS01	185704	2.79	509064	3.96	456962	8.89

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	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	IA2R	SDG No.:	Q1691
Lab Sample ID:	Q1691-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042221.D	1		04/04/25 12:46	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.41	2.03	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.93	1.92		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	9.50	22.6		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.20	4.17		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	1.10	3.24		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.12	0.75		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.82	4.00		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.18	0.58	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.28	1.06	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	IA2R	SDG No.:	Q1691
Lab Sample ID:	Q1691-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042221.D	1		04/04/25 12:46	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.22	1.49		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.45	1.59	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.25	0.90	J	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	194000		2.787			
540-36-3	1,4-Difluorobenzene	537000		3.959			
3114-55-4	Chlorobenzene-d5	466000		8.882			

Report of Analysis

Client:	GFE LLC	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	IA2R	SDG No.:	Q1691
Lab Sample ID:	Q1691-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042221.D	1		04/04/25 12:46	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL040425\
 Data File : VL042221.D
 Acq On : 04 Apr 2025 12:46
 Operator : SY/MD
 Sample : Q1691-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2R

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 05 02:02:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	193944	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	537035	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	465935	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	376164	9.831	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	11605	0.405	ppbv	98
3) Chlorodifluoromethane	1.476	51	8757m	0.299	ppbv	
4) Chloromethane	1.531	50	10930	0.934	ppbv	93
9) Propene	1.486	41	7450	0.556	ppbv	91
11) Trichlorofluoromethane	1.878	101	5737	0.206	ppbv	97
13) Ethanol	1.722	45	80750	63.706	ppbv	80
15) Acetone	1.835	43	257627	9.498	ppbv	96
19) Isopropyl Alcohol	1.887	45	34632	2.263	ppbv #	1
20) Methylene Chloride	2.062	84	12311	1.219	ppbv	94
23) Vinyl Acetate	2.457	43	40317	3.434	ppbv #	85
26) Hexane	2.826	57	12176	0.448	ppbv #	44
29) Chloroform	2.849	83	32593	0.819	ppbv	97
34) 2-Butanone	2.560	43	42115	1.081	ppbv	99
35) Carbon Tetrachloride	3.768	117	5181m	0.123	ppbv	
36) Benzene	3.661	78	9622	0.181	ppbv	98
40) 1,4-Dioxane	4.609	88	2568m	0.250	ppbv	
41) Tetrahydrofuran	3.069	42	2673m	0.119	ppbv	
51) 2-Hexanone	7.454	43	5679m	0.112	ppbv	
52) Tetrachloroethene	8.225	164	4611	0.218	ppbv #	85
53) Toluene	6.930	91	17579	0.279	ppbv	99
59) m/p-Xylene	9.529	91	10348m	0.157	ppbv	

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

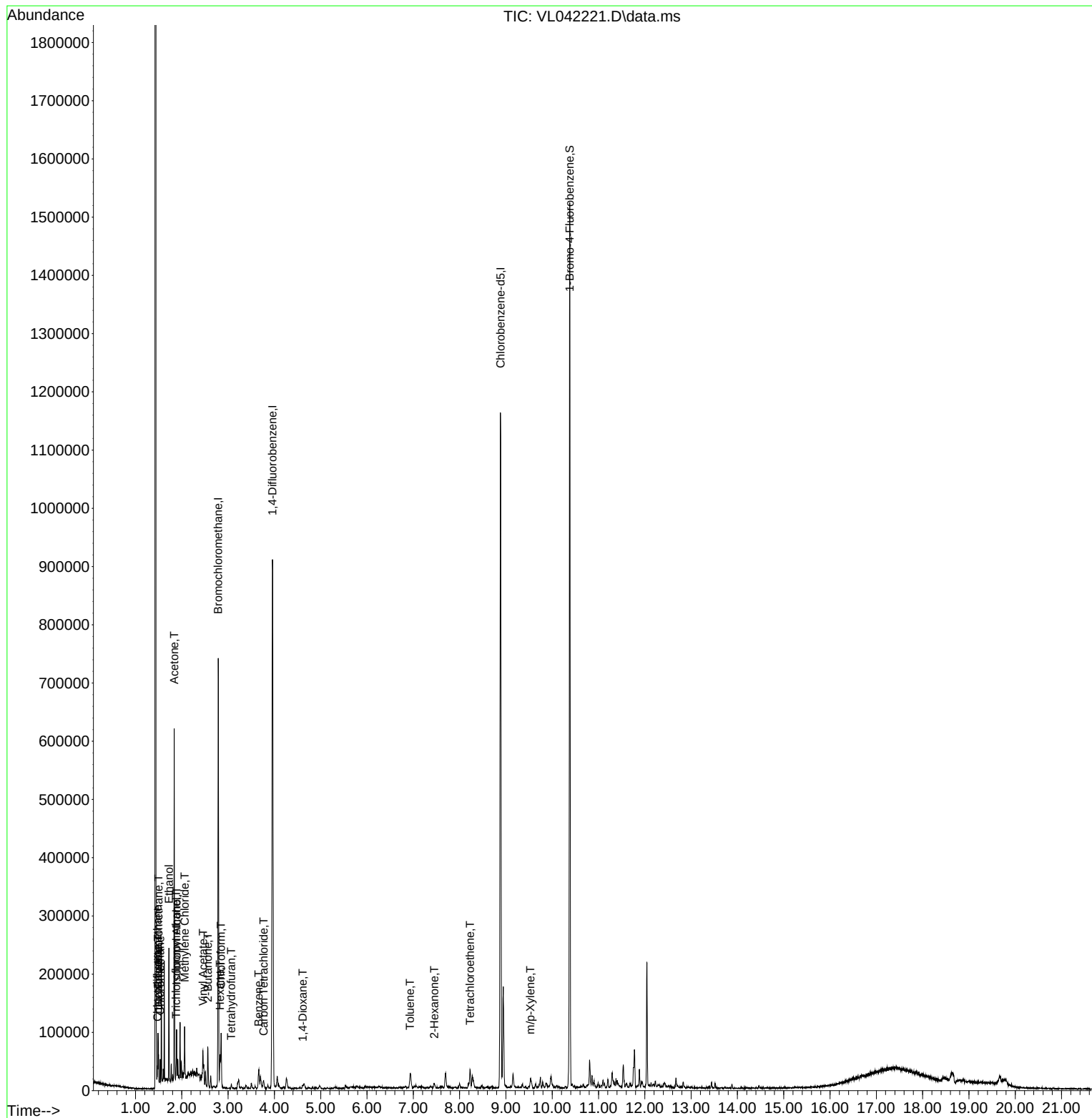
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
Data File : VL042221.D
Acq On : 04 Apr 2025 12:46
Operator : SY/MD
Sample : Q1691-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

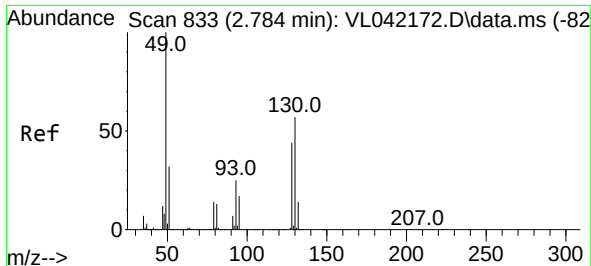
Instrument :
MSVOA_L
ClientSampleId :
IA2R

Quant Time: Apr 05 02:02:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

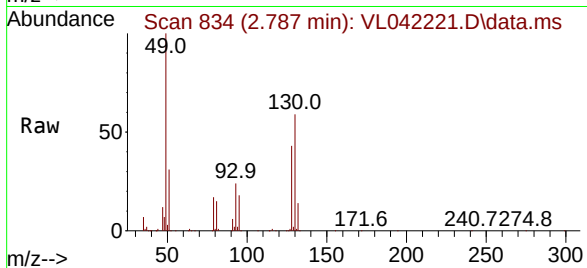
Reviewed By : Semsettin Yesilyurt 04/07/2025
Supervised By : Mahesh Dadoda 04/08/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

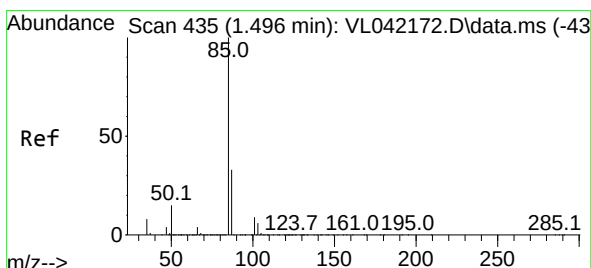
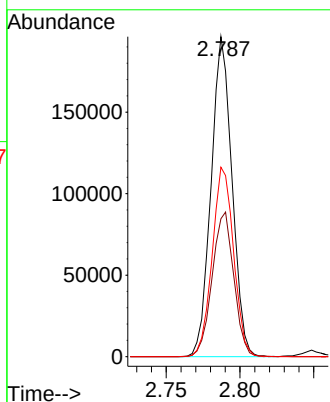
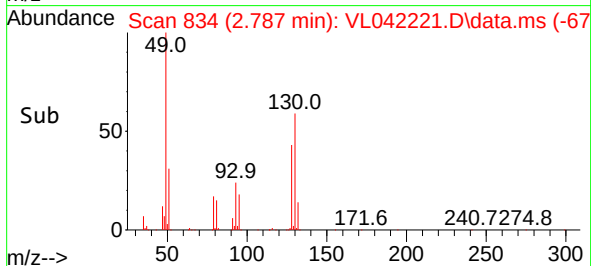
Instrument :
MSVOA_L
ClientSampleId :
IA2R



Tgt Ion: 49 Resp: 193944
Ion Ratio Lower Upper
49 100
128 46.8 22.9 68.5
130 60.5 28.8 86.4

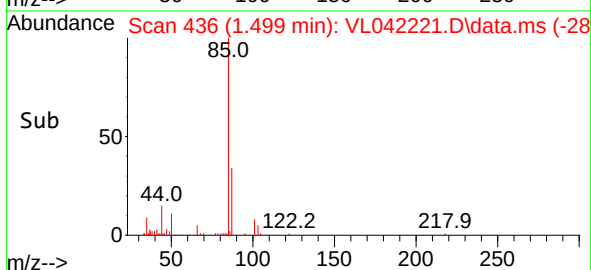
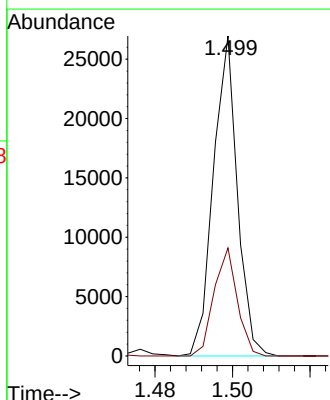
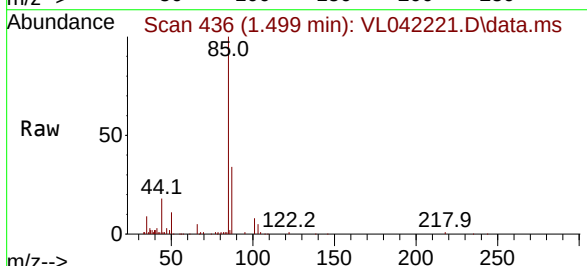
Manual Integrations
APPROVED

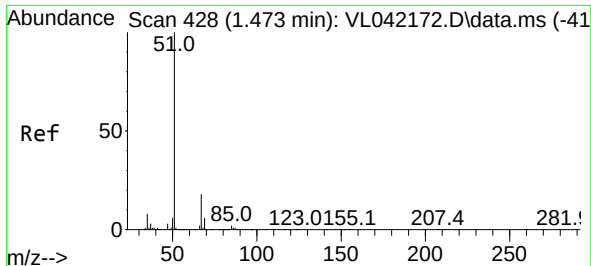
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#2
Dichlorodifluoromethane
Concen: 0.405 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

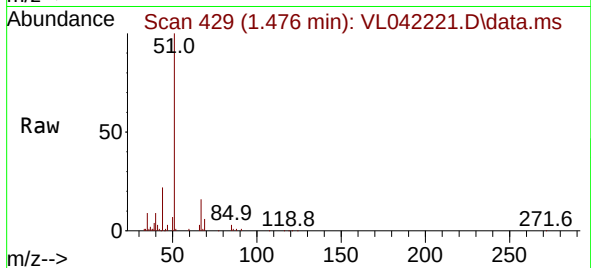
Tgt Ion: 85 Resp: 11605
Ion Ratio Lower Upper
85 100
87 33.8 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.299 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

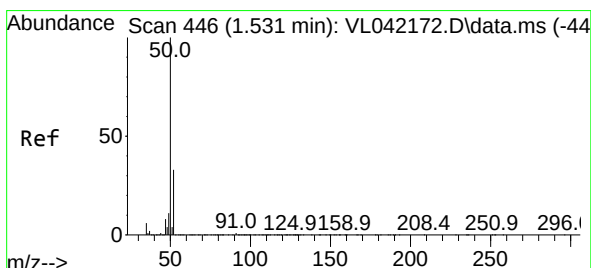
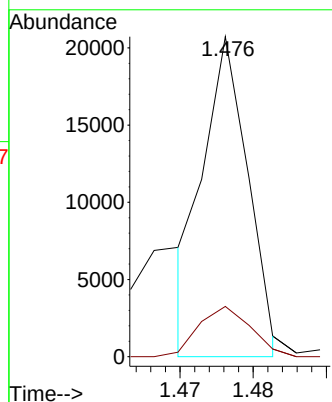
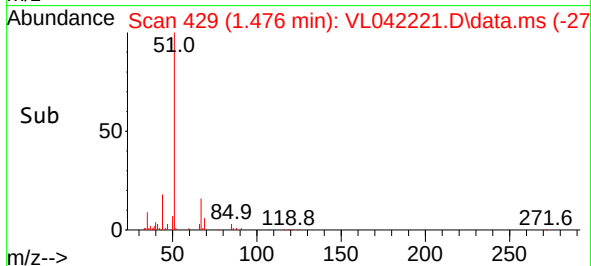
Instrument :
MSVOA_L
ClientSampleId :
IA2R



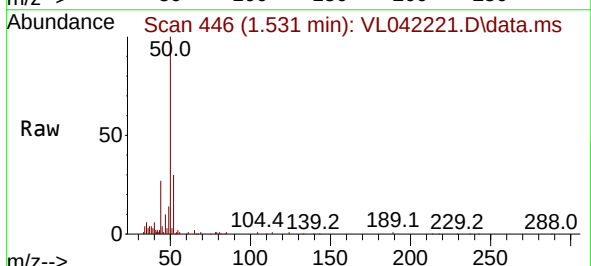
Tgt Ion: 51 Resp: 875
Ion Ratio Lower Upper
51 100
67 3.4 15.0 22.6

Manual Integrations
APPROVED

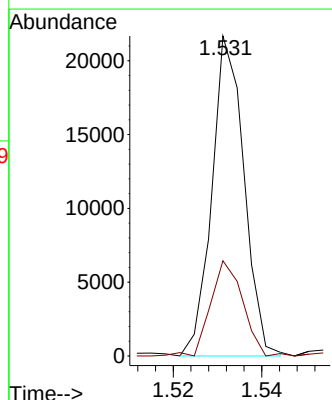
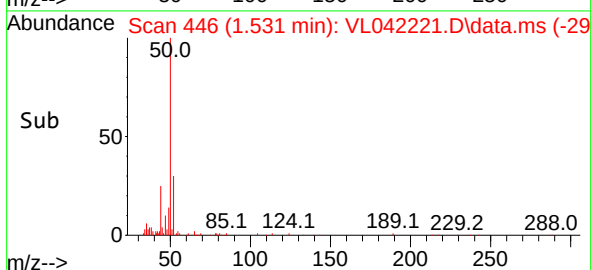
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

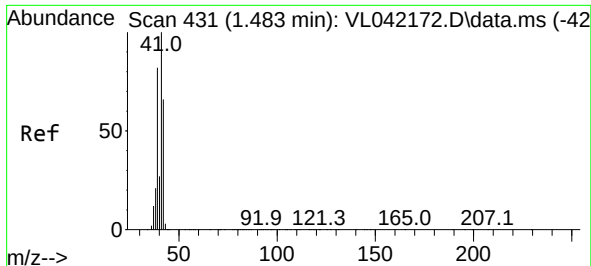


#4
Chloromethane
Concen: 0.934 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46



Tgt Ion: 50 Resp: 10930
Ion Ratio Lower Upper
50 100
52 28.7 26.1 39.1





#9

Propene

Concen: 0.556 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

Instrument :

MSVOA_L

ClientSampleId :

IA2R

Tgt Ion: 41 Resp: 7450

Ion Ratio Lower Upper

41 100

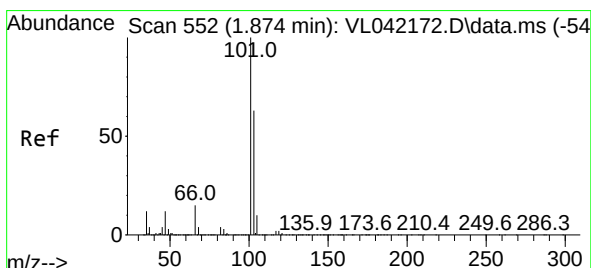
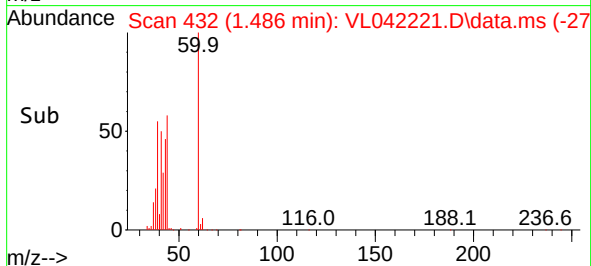
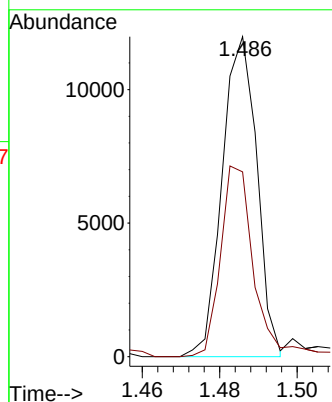
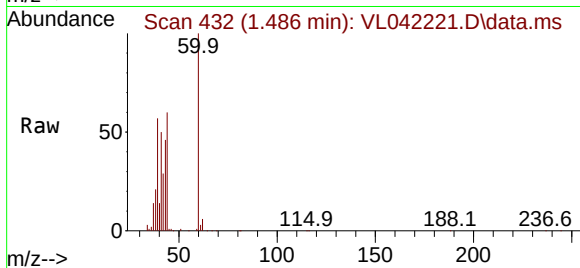
42 61.9 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#11

Trichlorofluoromethane

Concen: 0.206 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL042221.D

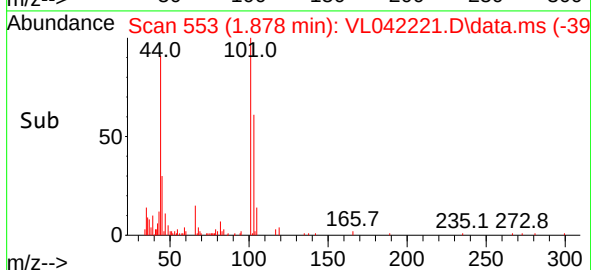
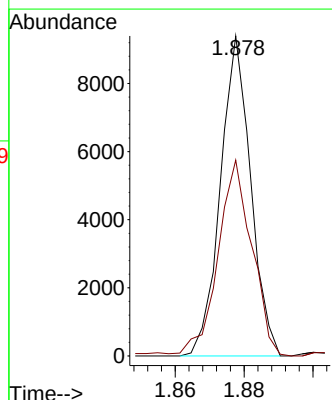
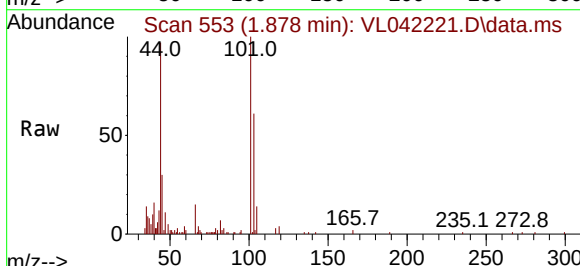
Acq: 04 Apr 2025 12:46

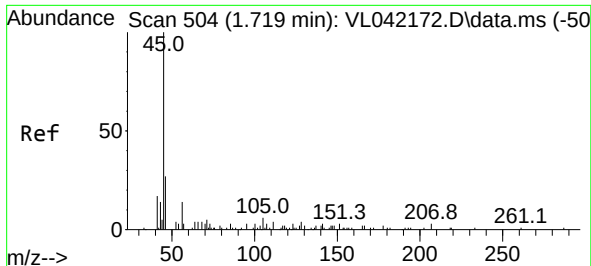
Tgt Ion:101 Resp: 5737

Ion Ratio Lower Upper

101 100

103 60.7 50.2 75.2





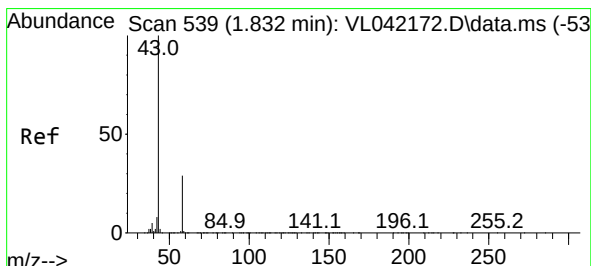
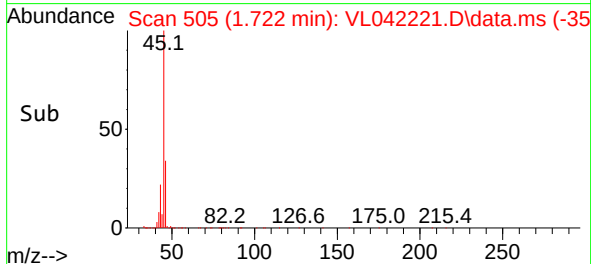
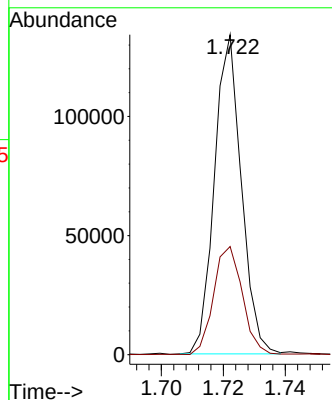
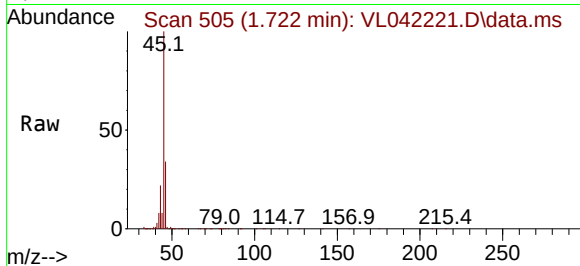
#13
Ethanol
Concen: 63.706 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
IA2R

Tgt Ion: 45 Resp: 80750
Ion Ratio Lower Upper
45 100
46 36.5 20.2 80.8

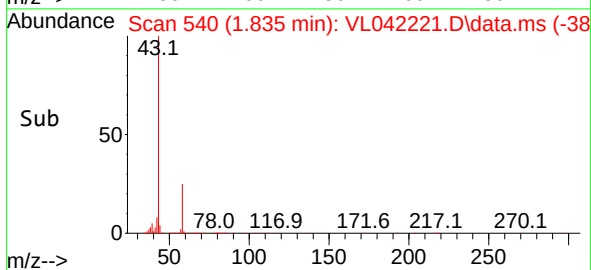
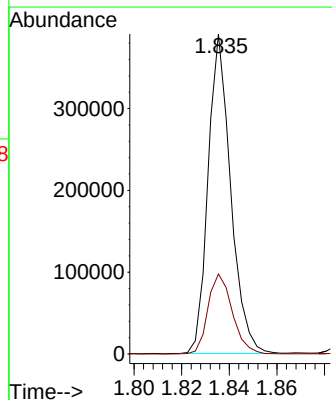
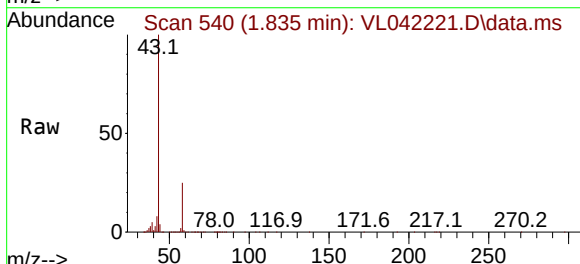
Manual Integrations
APPROVED

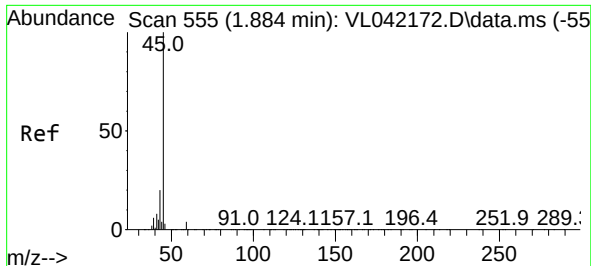
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#15
Acetone
Concen: 9.498 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

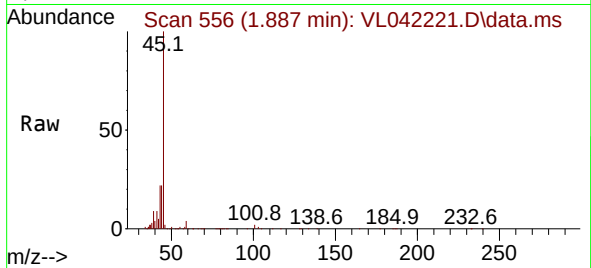
Tgt Ion: 43 Resp: 257627
Ion Ratio Lower Upper
43 100
58 27.0 23.2 34.8





#19
Isopropyl Alcohol
Concen: 2.263 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

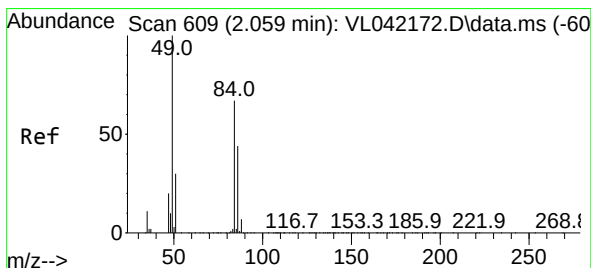
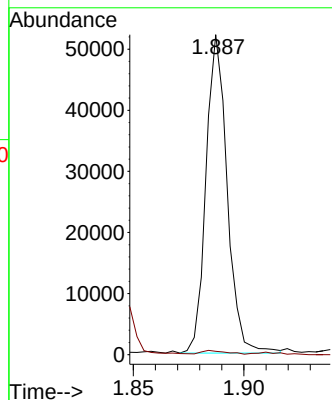
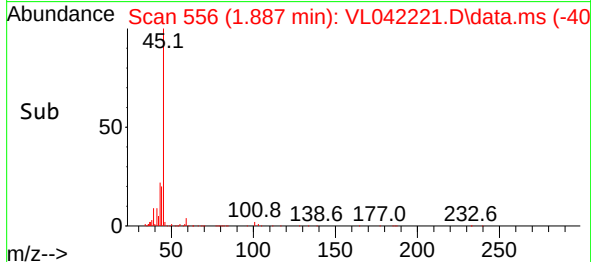
Instrument :
MSVOA_L
ClientSampleId :
IA2R



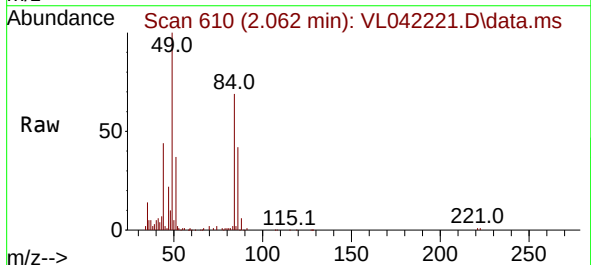
Tgt Ion: 45 Resp: 34632
Ion Ratio Lower Upper
45 100
58 200.7 36.9 55.3

Manual Integrations
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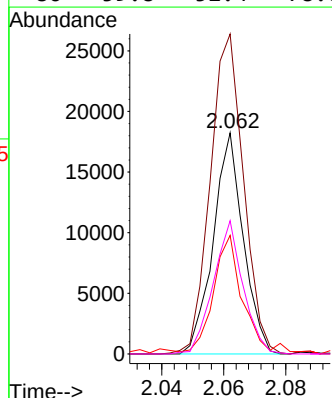
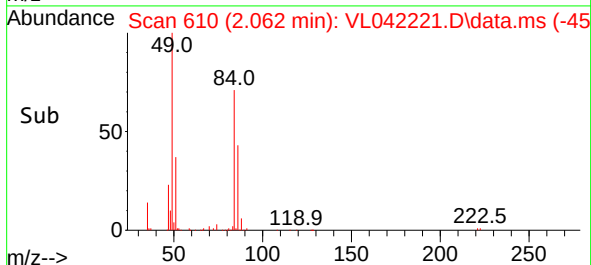
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

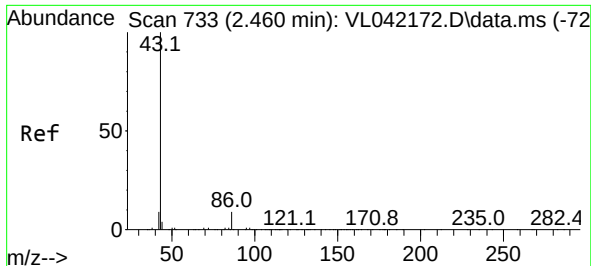


#20
Methylene Chloride
Concen: 1.219 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46



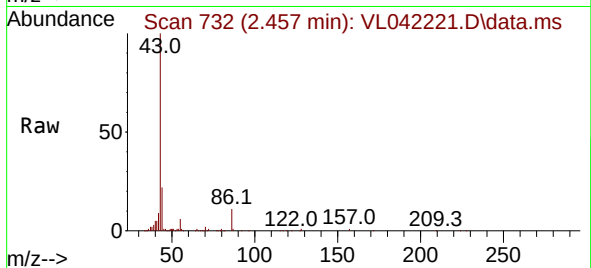
Tgt Ion: 84 Resp: 12311
Ion Ratio Lower Upper
84 100
49 144.2 120.2 180.4
51 52.6 37.4 56.0
86 59.8 52.4 78.6





#23
 Vinyl Acetate
 Concen: 3.434 ppbv
 RT: 2.457 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042221.D
 Acq: 04 Apr 2025 12:46

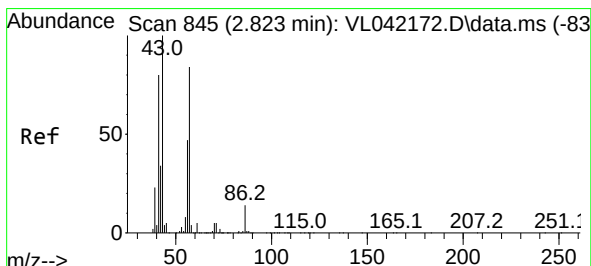
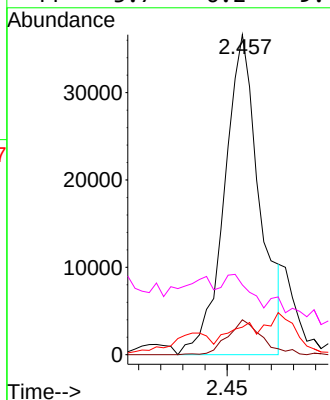
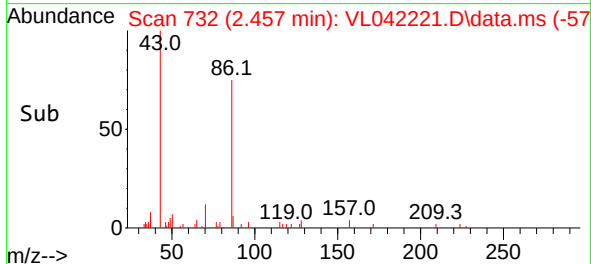
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2R



Tgt Ion: 43 Resp: 4031
 Ion Ratio Lower Upper
 43 100
 86 10.9 5.5 8.3
 42 3.5 8.6 13.0
 44 3.7 6.2 9.4

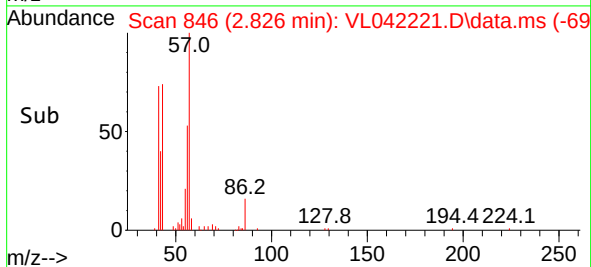
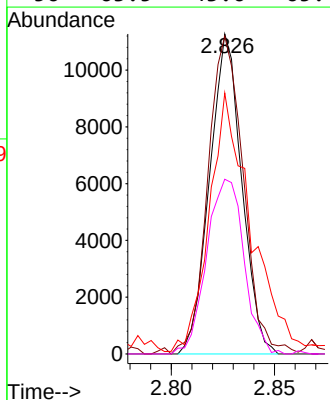
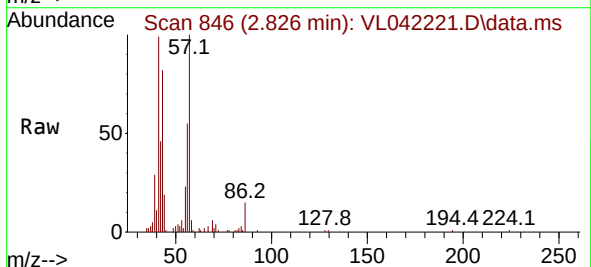
Manual Integrations
 APPROVED

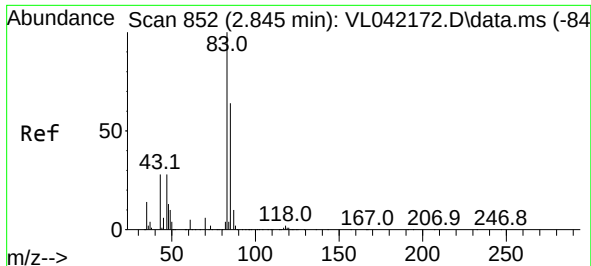
Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025



#26
 Hexane
 Concen: 0.448 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. 0.003 min
 Lab File: VL042221.D
 Acq: 04 Apr 2025 12:46

Tgt Ion: 57 Resp: 12176
 Ion Ratio Lower Upper
 57 100
 41 109.2 76.6 114.8
 43 115.9 207.8 311.8
 56 63.5 43.6 65.4





#29

Chloroform

Concen: 0.819 ppbv

RT: 2.849 min Scan# 853

Delta R.T. 0.003 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

Instrument :

MSVOA_L

ClientSampleId :

IA2R

Tgt Ion: 83 Resp: 3259

Ion Ratio Lower Upper

83 100

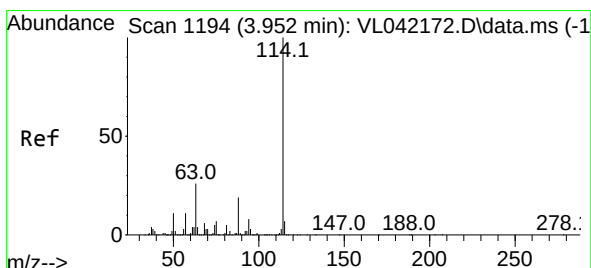
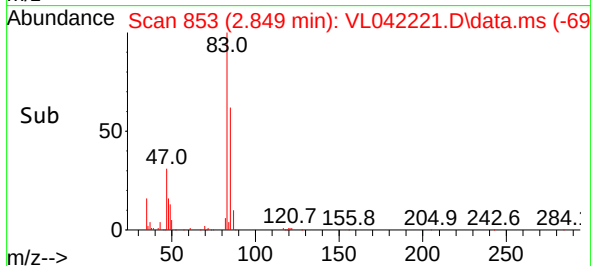
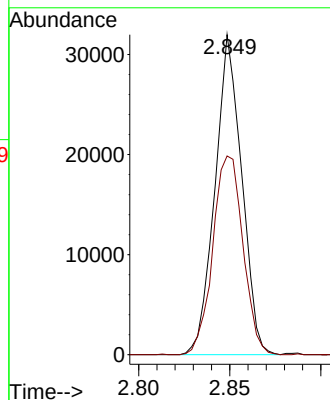
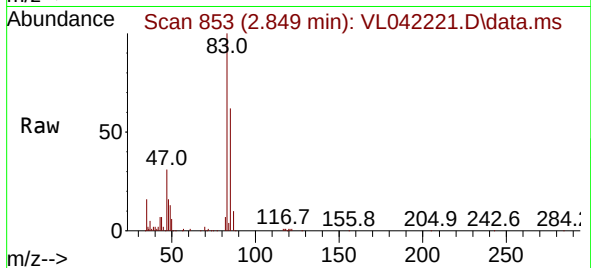
85 62.1 51.4 77.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.006 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

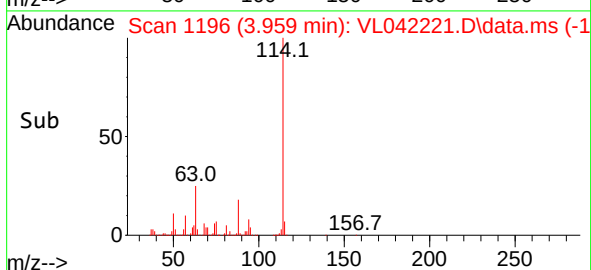
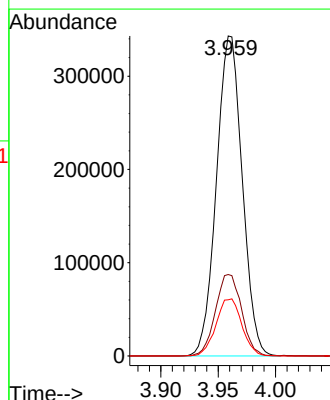
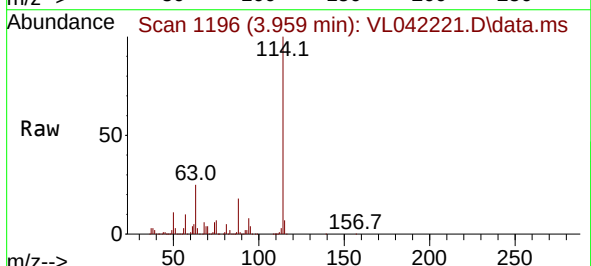
Tgt Ion:114 Resp: 537035

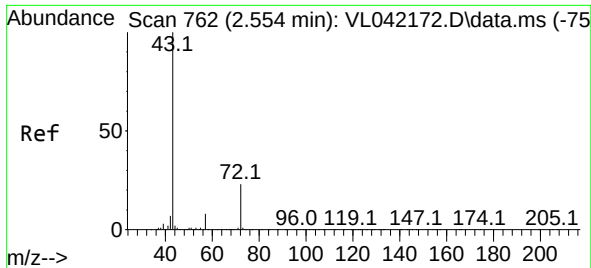
Ion Ratio Lower Upper

114 100

63 25.7 20.7 31.1

88 17.9 15.0 22.4





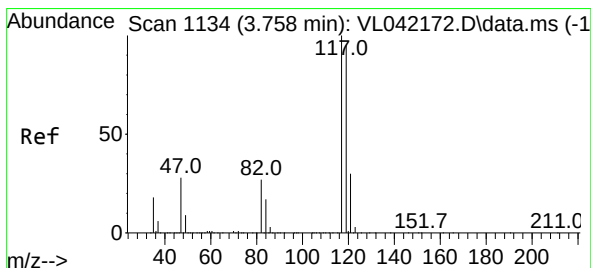
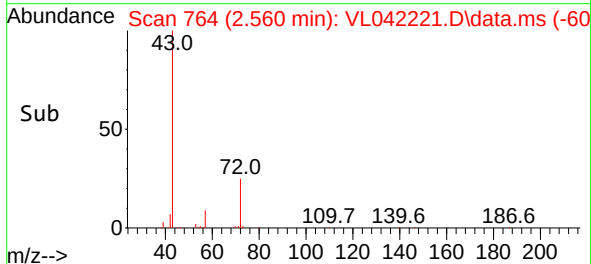
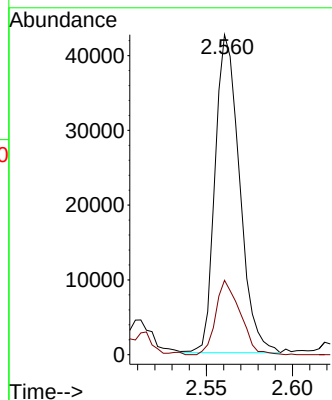
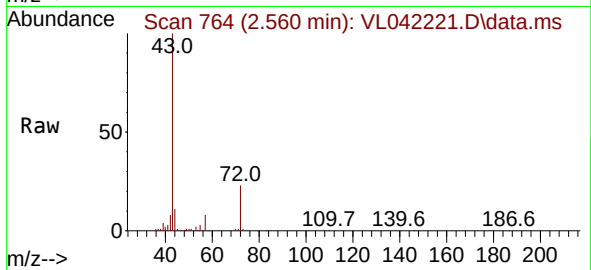
#34
2-Butanone
Concen: 1.081 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

Instrument :
MSVOA_L
ClientSampleId :
IA2R

Tgt Ion: 43 Resp: 42115
Ion Ratio Lower Upper
43 100
72 23.3 18.2 27.2

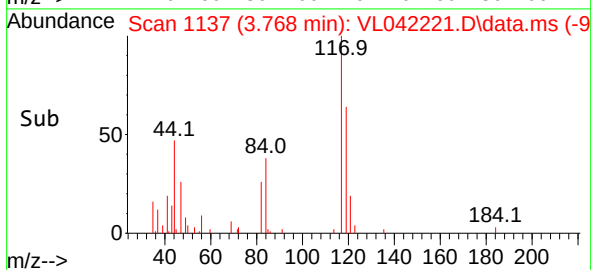
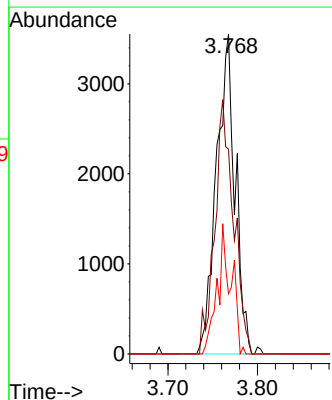
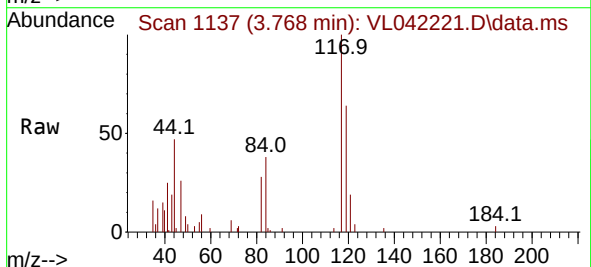
Manual Integrations
APPROVED

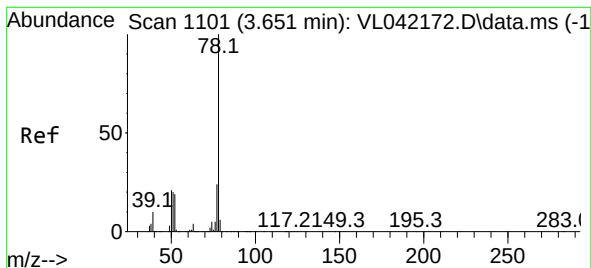
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#35
Carbon Tetrachloride
Concen: 0.123 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.010 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

Tgt Ion:117 Resp: 5181
Ion Ratio Lower Upper
117 100
119 64.0 76.2 114.2#
121 18.8 24.2 36.4#





#36

Benzene

Concen: 0.181 ppbv

RT: 3.661 min Scan# 1101

Delta R.T. 0.010 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

Instrument :

MSVOA_L

ClientSampleId :

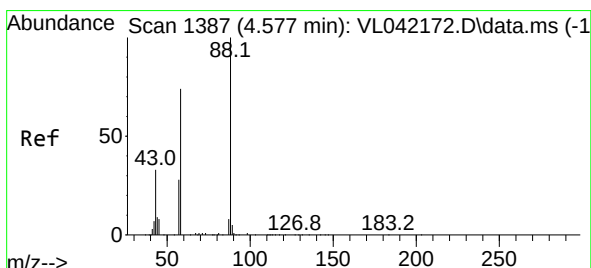
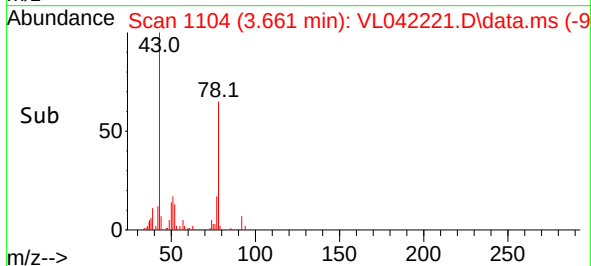
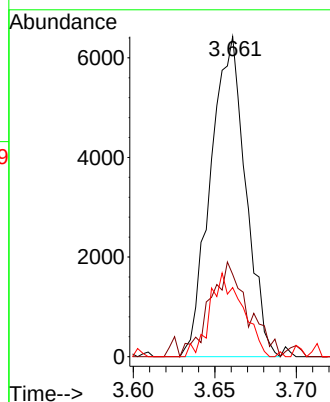
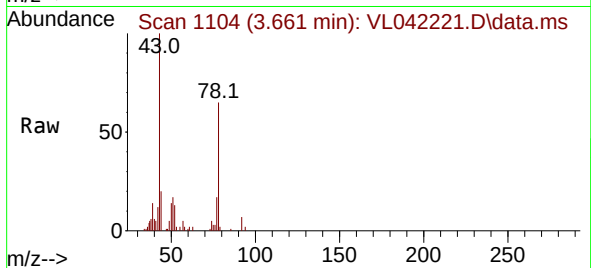
IA2R

Tgt Ion: 78	Resp: 962
Ion Ratio	Lower Upper
78 100	
77 25.7	19.1 28.7
50 20.7	16.6 24.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#40

1,4-Dioxane

Concen: 0.250 ppbv m

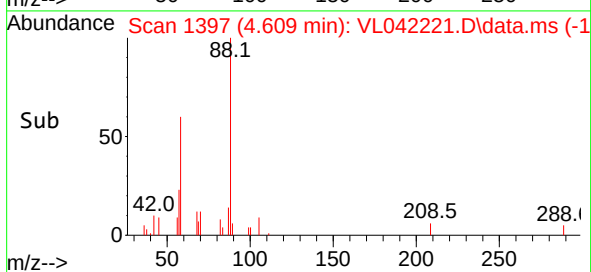
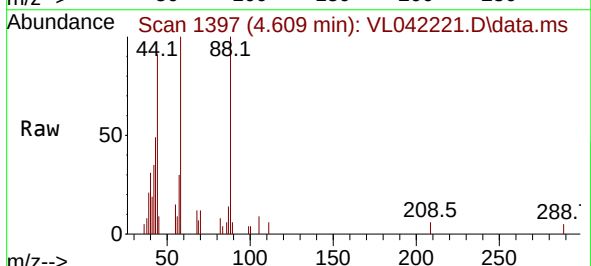
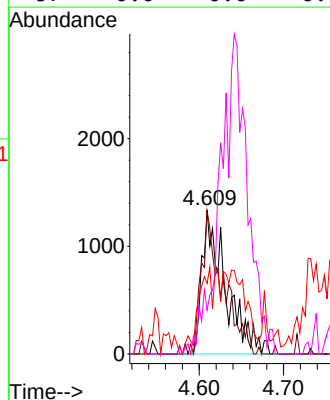
RT: 4.609 min Scan# 1397

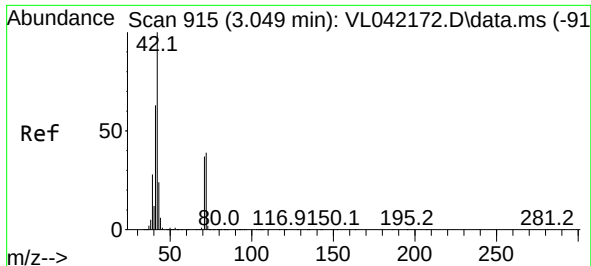
Delta R.T. 0.032 min

Lab File: VL042221.D

Acq: 04 Apr 2025 12:46

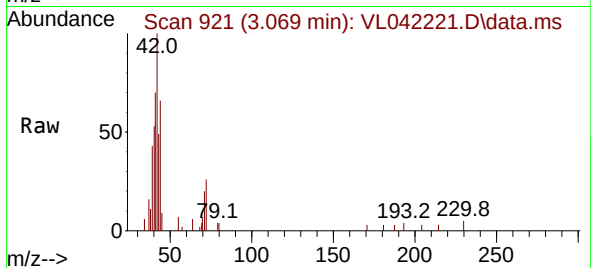
Tgt Ion: 88	Resp: 2568
Ion Ratio	Lower Upper
88 100	
58 93.8	62.7 94.1
43 120.1	23.0 34.4#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 0.119 ppbv m
RT: 3.069 min Scan# 915
Delta R.T. 0.019 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

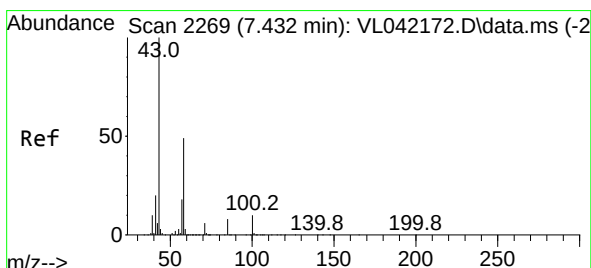
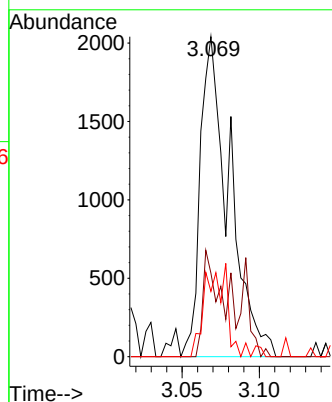
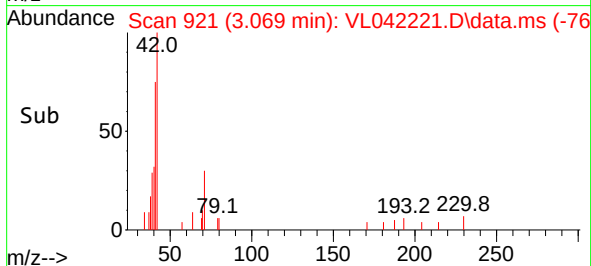
Instrument :
MSVOA_L
ClientSampleId :
IA2R



Tgt Ion: 42 Resp: 2673
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 30.2 45.4#

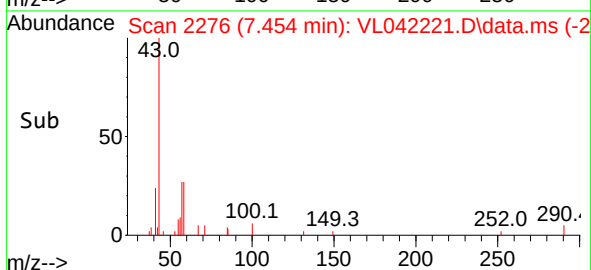
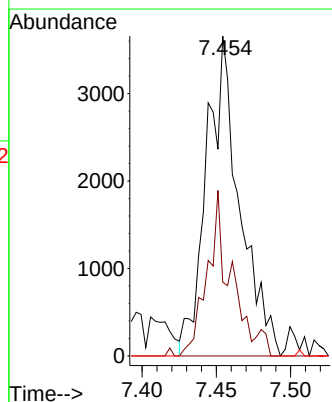
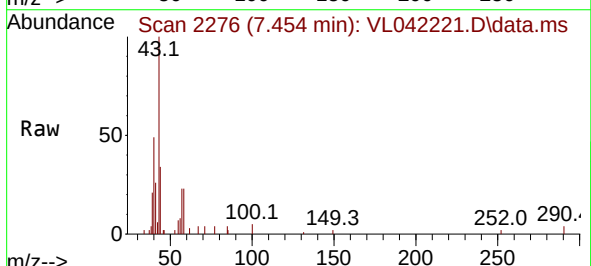
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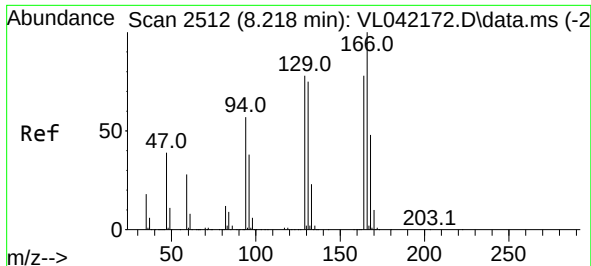
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#51
2-Hexanone
Concen: 0.112 ppbv m
RT: 7.454 min Scan# 2276
Delta R.T. 0.022 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

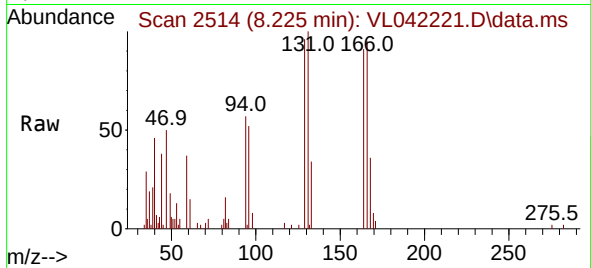
Tgt Ion: 43 Resp: 5679
Ion Ratio Lower Upper
43 100
58 0.0 39.7 59.5#
98 0.0 0.1 0.1#





#52
Tetrachloroethene
Concen: 0.218 ppbv
RT: 8.225 min Scan# 2114
Delta R.T. 0.006 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

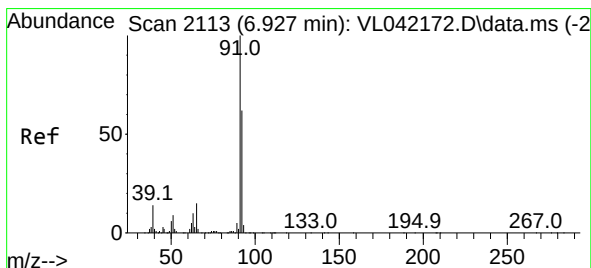
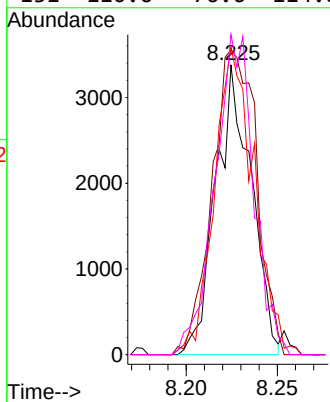
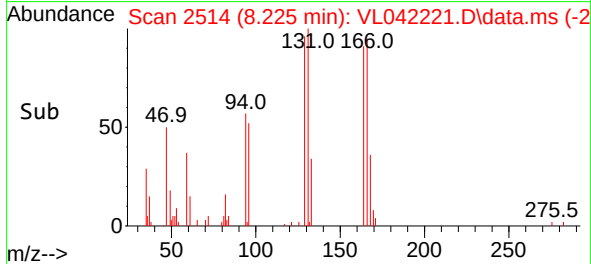
Instrument :
MSVOA_L
ClientSampleId :
IA2R



Tgt Ion:164 Resp: 461
Ion Ratio Lower Upper
164 100
166 102.4 102.5 153.7
129 104.3 79.8 119.8
131 110.6 76.6 114.8

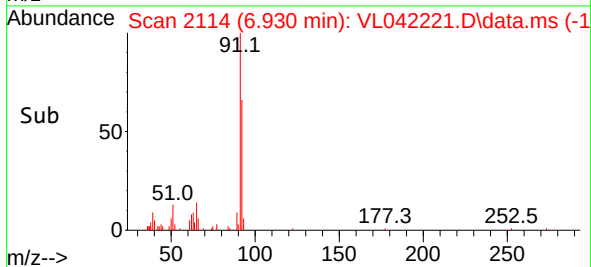
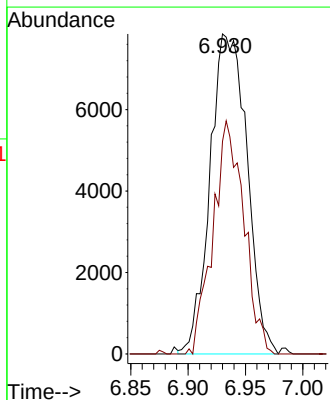
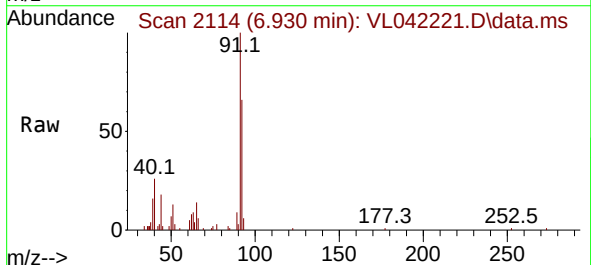
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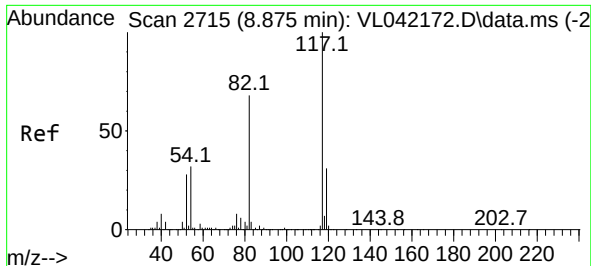
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#53
Toluene
Concen: 0.279 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.003 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

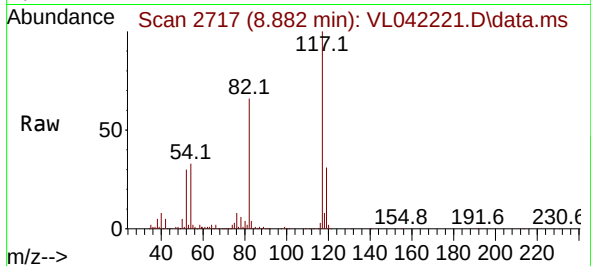
Tgt Ion: 91 Resp: 17579
Ion Ratio Lower Upper
91 100
92 61.0 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

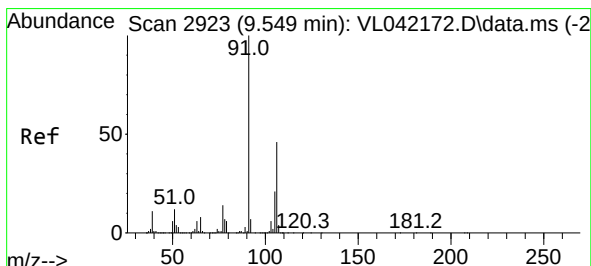
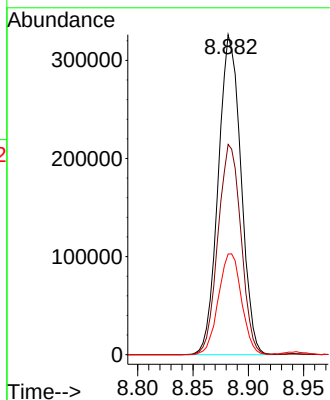
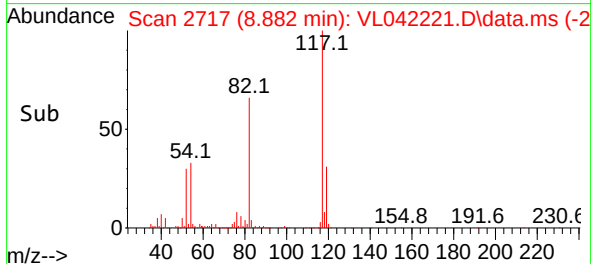
Instrument :
MSVOA_L
ClientSampleId :
IA2R



Tgt Ion: 117 Resp: 46593
Ion Ratio Lower Upper
117 100
82 66.5 55.8 83.6
119 32.2 25.5 38.3

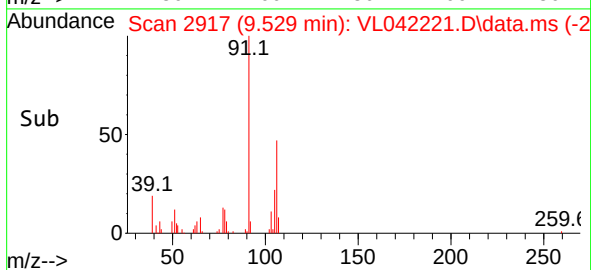
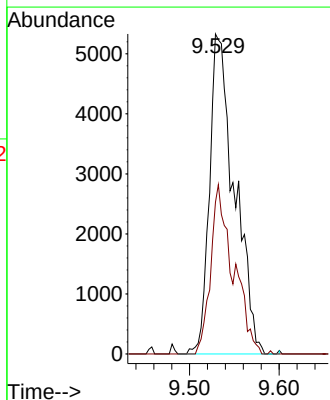
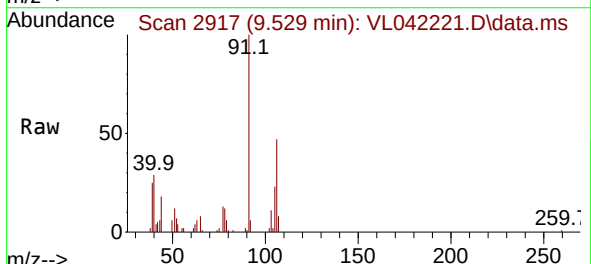
Manual Integrations
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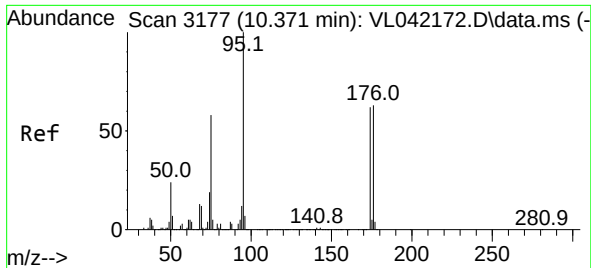
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#59
m/p-Xylene
Concen: 0.157 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.020 min
Lab File: VL042221.D
Acq: 04 Apr 2025 12:46

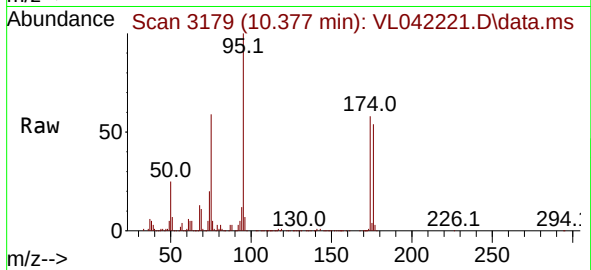
Tgt Ion: 91 Resp: 10348
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.831 ppbv
 RT: 10.377 min Scan# 3177
 Delta R.T. 0.006 min
 Lab File: VL042221.D
 Acq: 04 Apr 2025 12:46

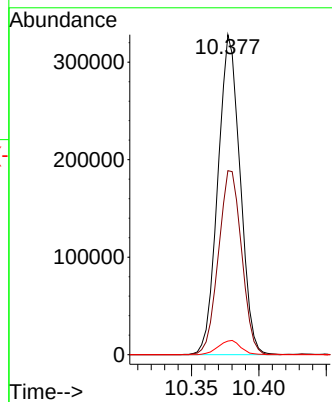
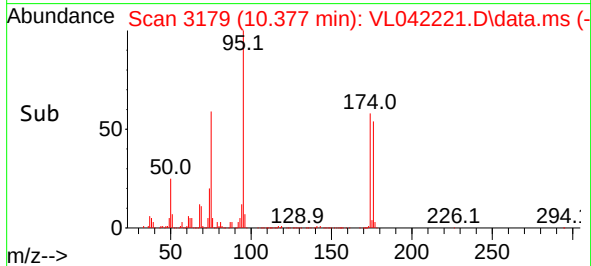
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2R



Tgt Ion: 95 Resp: 376164
 Ion Ratio Lower Upper
 95 100
 174 60.0 50.6 76.0
 175 4.5 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	IA3	SDG No.:	Q1691
Lab Sample ID:	Q1691-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042224.D	1		04/04/25 14:26	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.38	1.88	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	1.10	2.27		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.19	0.56	J	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.22	1.24	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	8.30	19.7		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.53	1.84		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.38	1.12	J	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.21	1.32		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.68	3.32		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.23	0.73	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.32	1.21	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	IA3	SDG No.:	Q1691
Lab Sample ID:	Q1691-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042224.D	1		04/04/25 14:26	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.080	0.54		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.15	0.64	J	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.34	1.20	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	191000		2.787			
540-36-3	1,4-Difluorobenzene	505000		3.959			
3114-55-4	Chlorobenzene-d5	449000		8.882			

Report of Analysis

Client:	GFE LLC	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	IA3	SDG No.:	Q1691
Lab Sample ID:	Q1691-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042224.D	1		04/04/25 14:26	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL040425\
 Data File : VL042224.D
 Acq On : 04 Apr 2025 14:26
 Operator : SY/MD
 Sample : Q1691-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 05 02:03:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

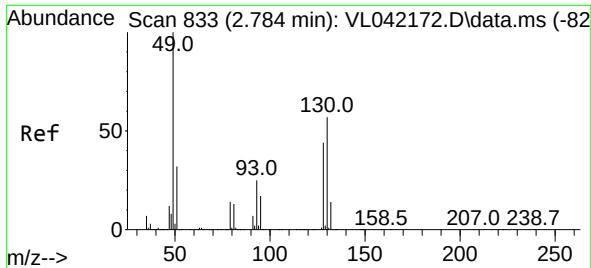
Internal Standards						
1) Bromochloromethane	2.787	49	191073	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	505458	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	449107	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	360553	9.776	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10740	0.381	ppbv	94
3) Chlorodifluoromethane	1.476	51	12078m	0.419	ppbv	
4) Chloromethane	1.531	50	12261	1.063	ppbv	95
9) Propene	1.483	41	6623	0.501	ppbv	99
11) Trichlorofluoromethane	1.878	101	5900	0.215	ppbv	99
13) Ethanol	1.719	45	291694	233.585	ppbv	82
15) Acetone	1.836	43	221309	8.282	ppbv	90
19) Isopropyl Alcohol	1.884	45	182022	12.072	ppbv #	32
20) Methylene Chloride	2.059	84	5268	0.529	ppbv	96
26) Hexane	2.823	57	9013	0.336	ppbv #	57
29) Chloroform	2.849	83	26637	0.679	ppbv	92
34) 2-Butanone	2.564	43	14042	0.383	ppbv	95
35) Carbon Tetrachloride	3.761	117	8113	0.205	ppbv	87
36) Benzene	3.651	78	11487m	0.229	ppbv	
41) Tetrahydrofuran	3.062	42	4040m	0.191	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	8430m	0.100	ppbv	
52) Tetrachloroethene	8.218	164	1648m	0.083	ppbv	
53) Toluene	6.927	91	19163m	0.323	ppbv	
59) m/p-Xylene	9.536	91	13598m	0.213	ppbv	
60) o-Xylene	9.966	91	6365	0.100	ppbv	97
61) Styrene	9.872	104	4812	0.152	ppbv	96

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

Manual Integrations
APPROVED

Quant Time: Apr 05 02:03:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration





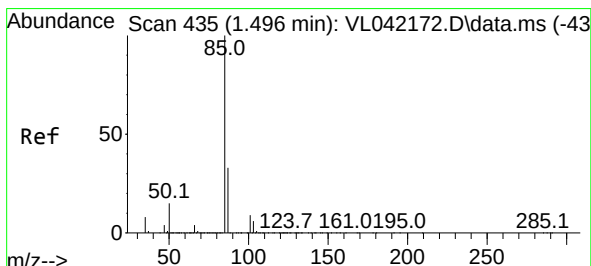
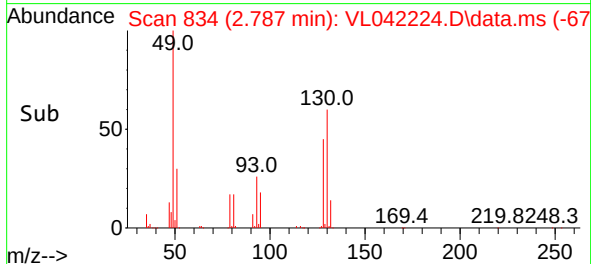
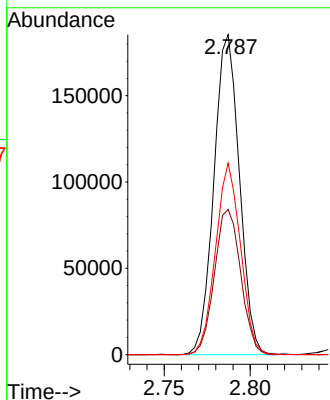
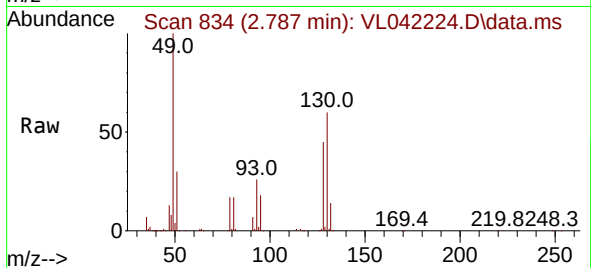
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 49 Resp: 19107
Ion Ratio Lower Upper
49 100
128 46.8 22.9 68.5
130 58.7 28.8 86.4

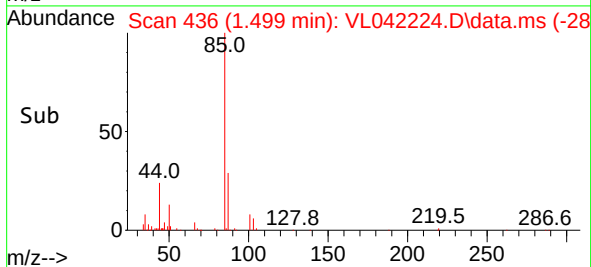
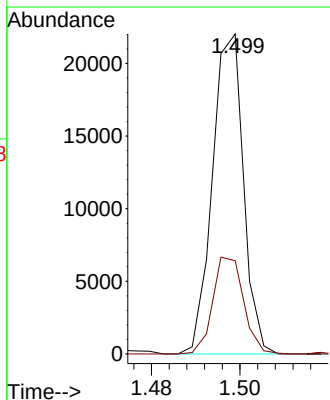
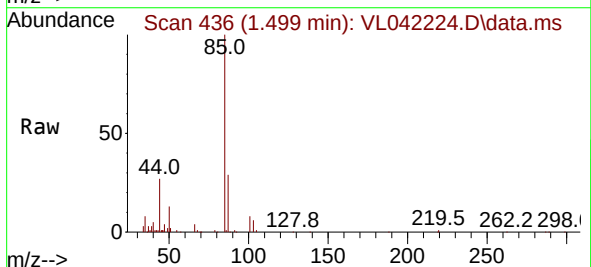
Manual Integrations
APPROVED

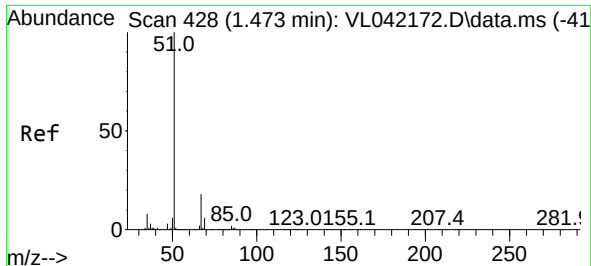
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#2
Dichlorodifluoromethane
Concen: 0.381 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

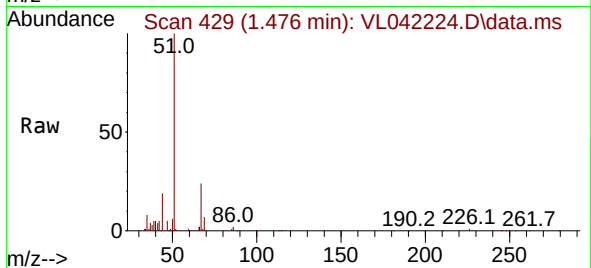
Tgt Ion: 85 Resp: 10740
Ion Ratio Lower Upper
85 100
87 29.2 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.419 ppbv m
RT: 1.476 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

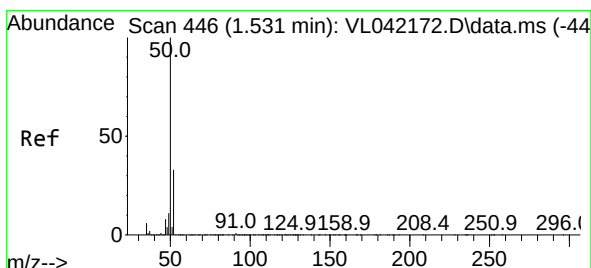
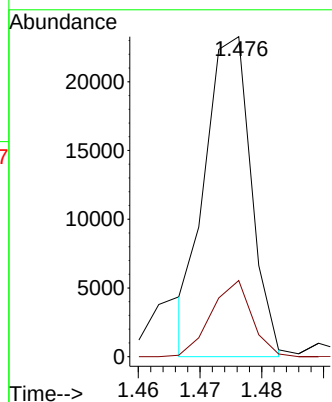
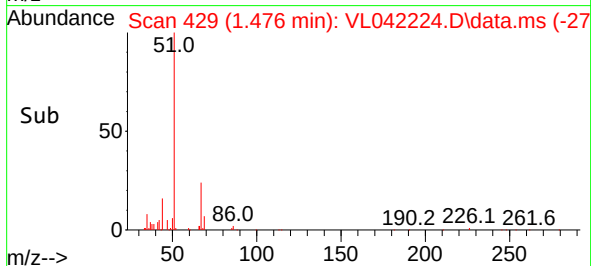
Instrument :
MSVOA_L
ClientSampleId :
IA3



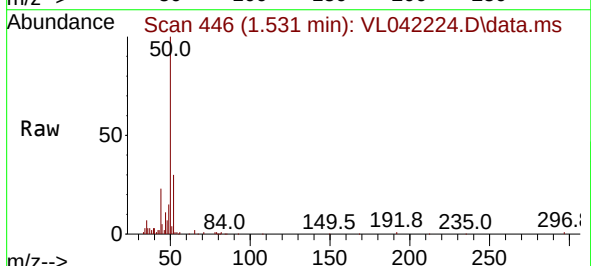
Tgt Ion: 51 Resp: 12078
Ion Ratio Lower Upper
51 100
67 21.0 15.0 22.6

Manual Integrations
APPROVED

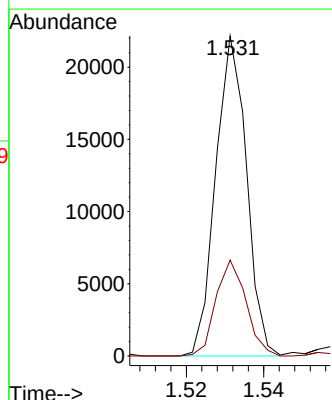
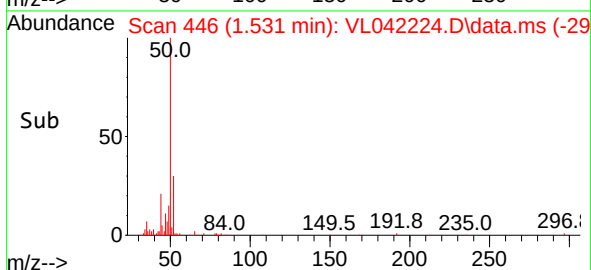
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

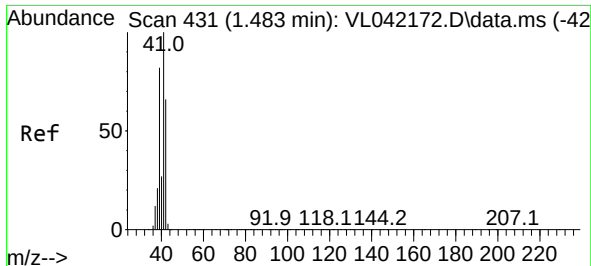


#4
Chloromethane
Concen: 1.063 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26



Tgt Ion: 50 Resp: 12261
Ion Ratio Lower Upper
50 100
52 30.0 26.1 39.1





#9

Propene

Concen: 0.501 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042224.D

Acq: 04 Apr 2025 14:26

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion: 41 Resp: 662

Ion Ratio Lower Upper

41 100

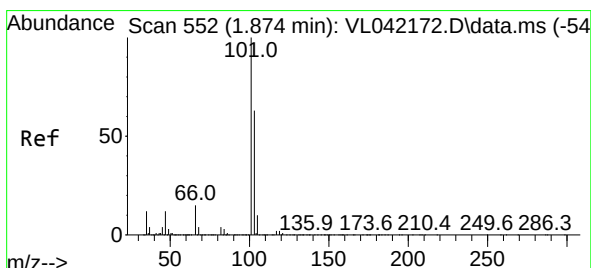
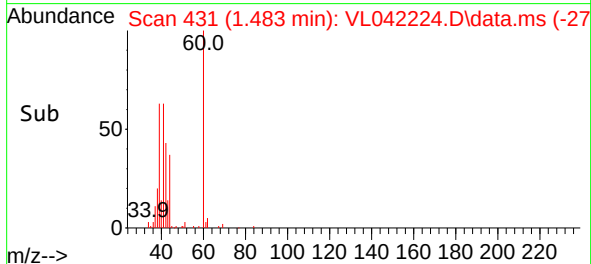
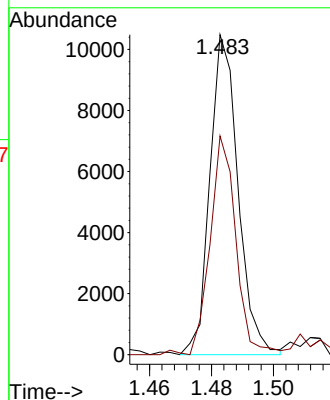
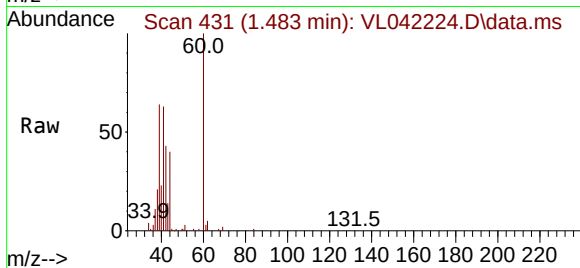
42 68.2 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#11

Trichlorofluoromethane

Concen: 0.215 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL042224.D

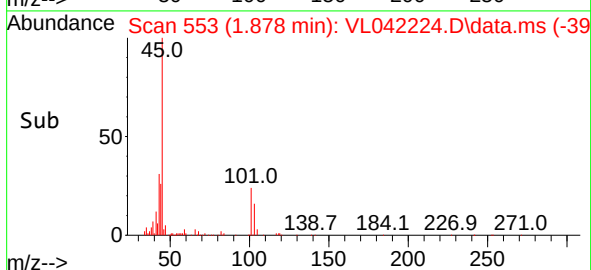
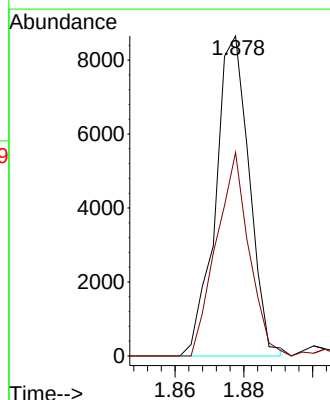
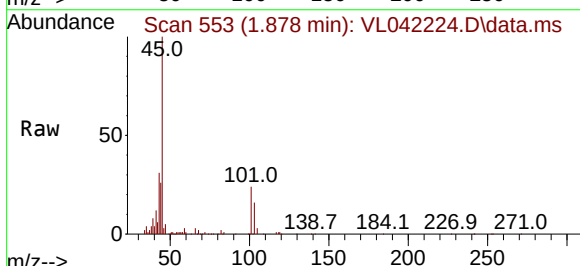
Acq: 04 Apr 2025 14:26

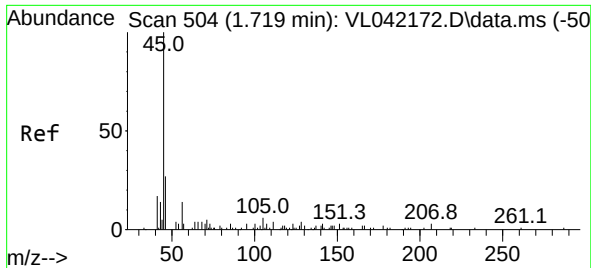
Tgt Ion:101 Resp: 5900

Ion Ratio Lower Upper

101 100

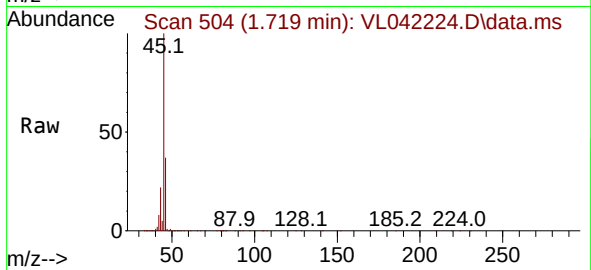
103 63.6 50.2 75.2





#13
Ethanol
Concen: 233.585 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

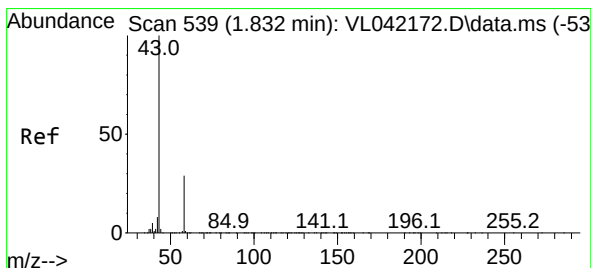
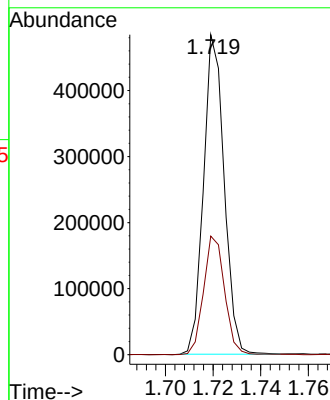
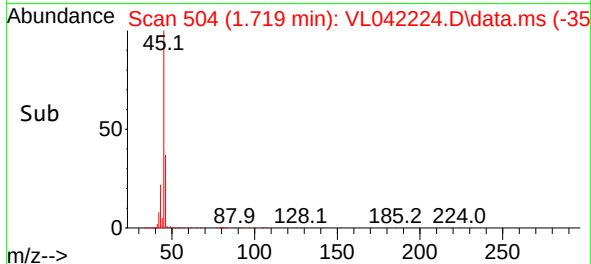
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 45 Resp: 291694
Ion Ratio Lower Upper
45 100
46 38.2 20.2 80.8

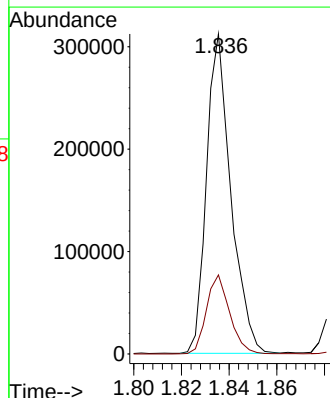
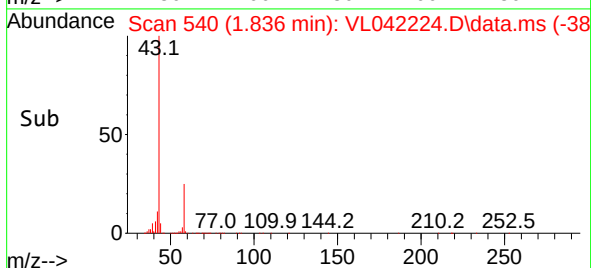
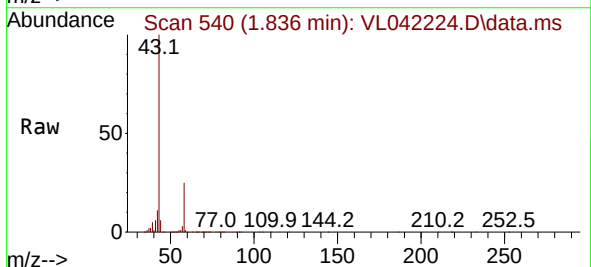
Manual Integrations
APPROVED

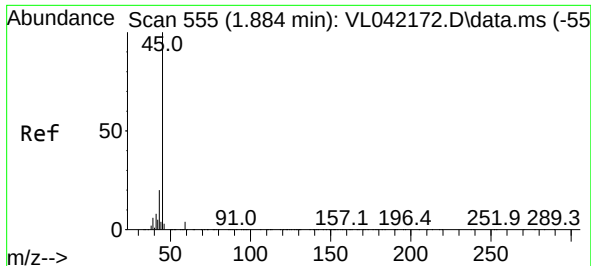
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#15
Acetone
Concen: 8.282 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

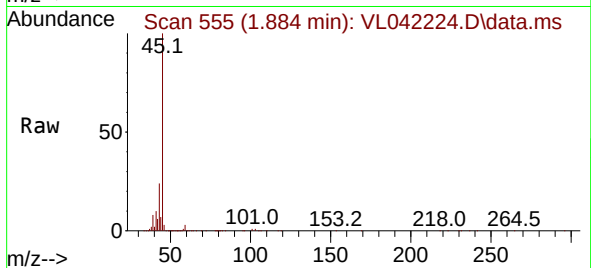
Tgt Ion: 43 Resp: 221309
Ion Ratio Lower Upper
43 100
58 23.8 23.2 34.8





#19
Isopropyl Alcohol
Concen: 12.072 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

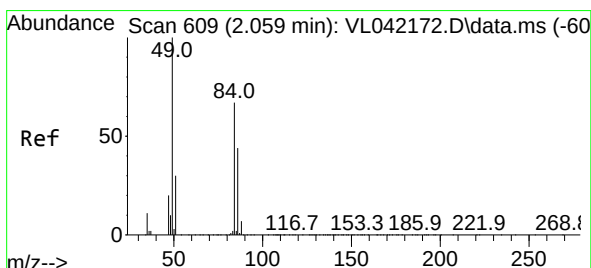
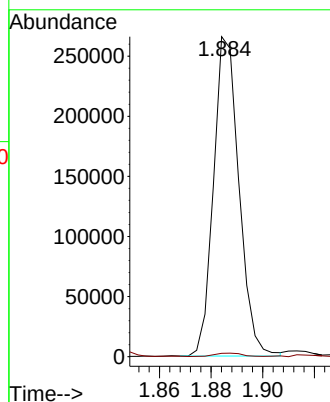
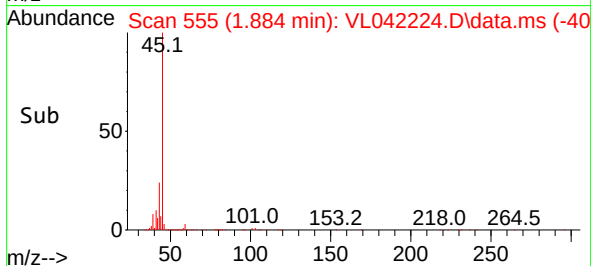
Instrument :
MSVOA_L
ClientSampleId :
IA3



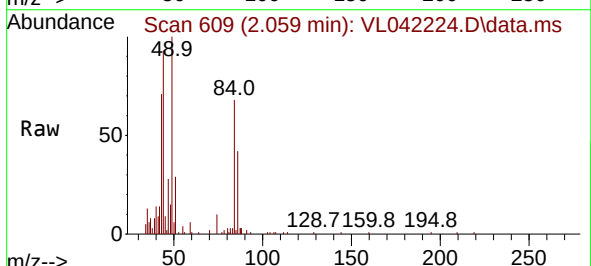
Tgt Ion: 45 Resp: 182022
Ion Ratio Lower Upper
45 100
58 1.4 36.9 55.3

Manual Integrations
APPROVED

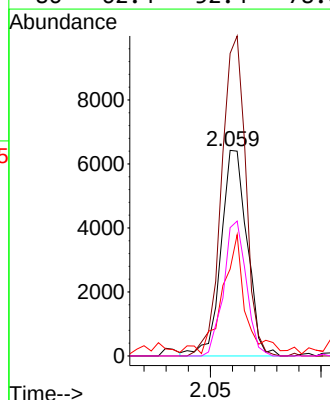
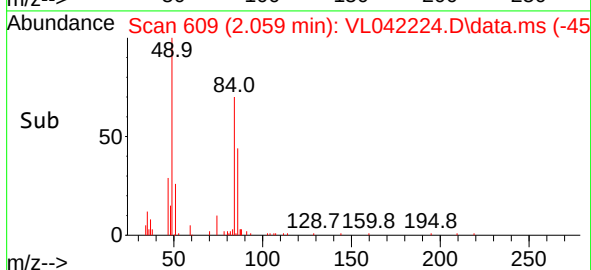
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

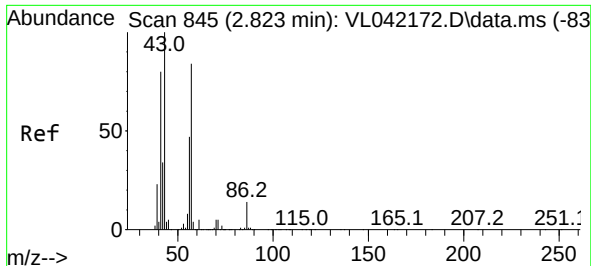


#20
Methylene Chloride
Concen: 0.529 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26



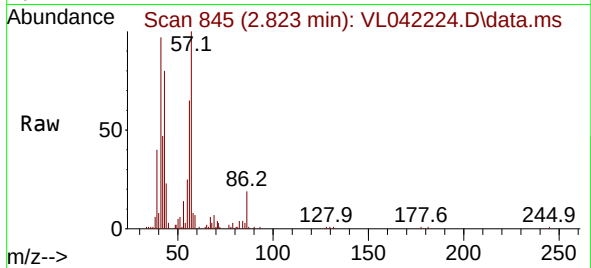
Tgt Ion: 84 Resp: 5268
Ion Ratio Lower Upper
84 100
49 147.2 120.2 180.4
51 40.6 37.4 56.0
86 62.4 52.4 78.6





#26
Hexane
Concen: 0.336 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

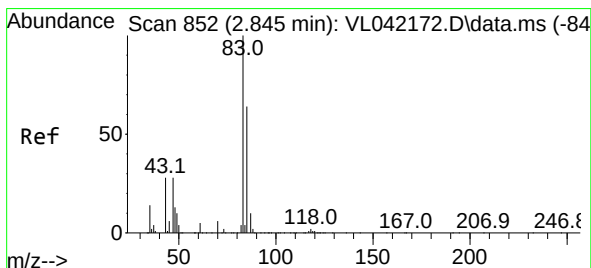
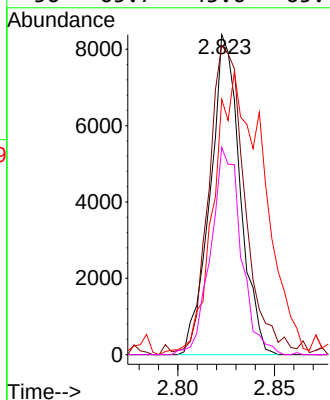
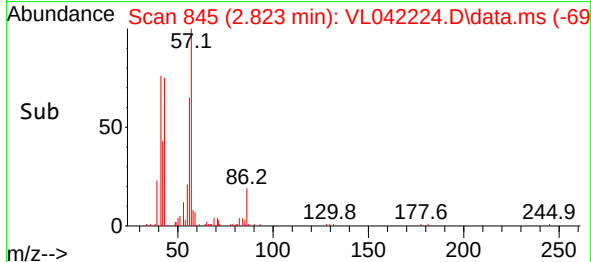
Instrument :
MSVOA_L
ClientSampleId :
IA3



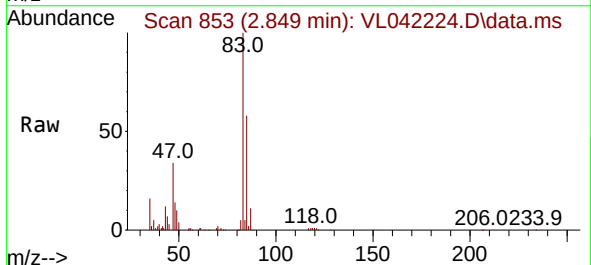
Tgt Ion: 57 Resp: 901
Ion Ratio Lower Upper
57 100
41 118.7 76.6 114.8
43 159.0 207.8 311.8
56 65.7 43.6 65.4#

Manual Integrations
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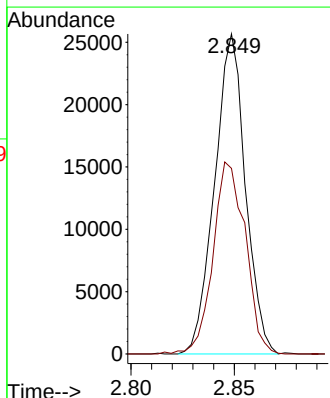
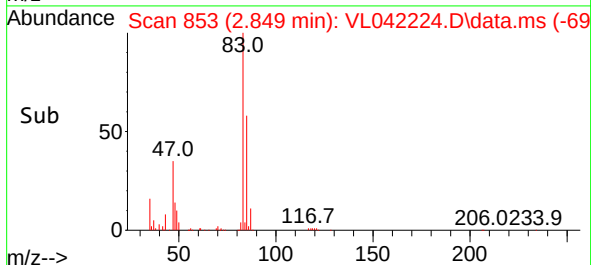
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

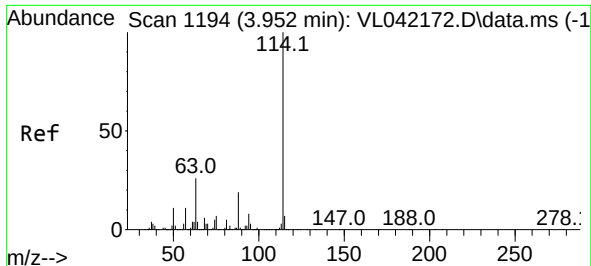


#29
Chloroform
Concen: 0.679 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26



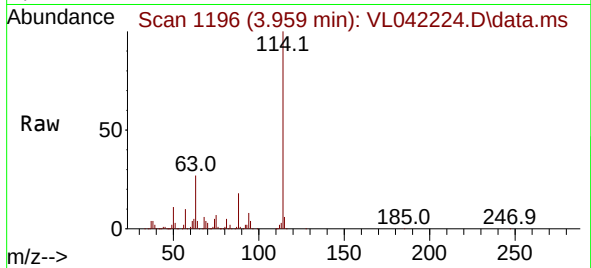
Tgt Ion: 83 Resp: 26637
Ion Ratio Lower Upper
83 100
85 57.7 51.4 77.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

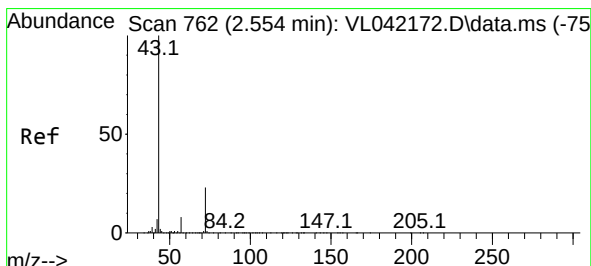
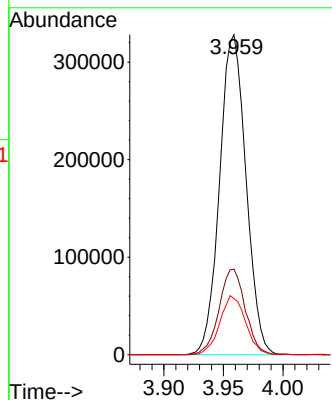
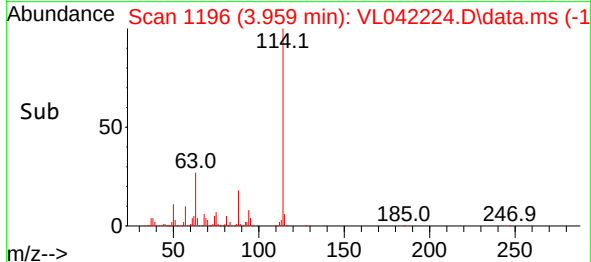
Instrument :
MSVOA_L
ClientSampleId :
IA3



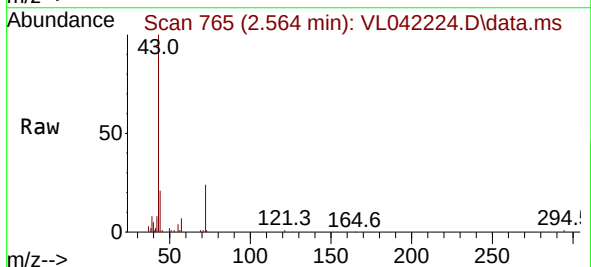
Tgt Ion:114 Resp: 505458
Ion Ratio Lower Upper
114 100
63 26.5 20.7 31.1
88 18.0 15.0 22.4

Manual Integrations
APPROVED

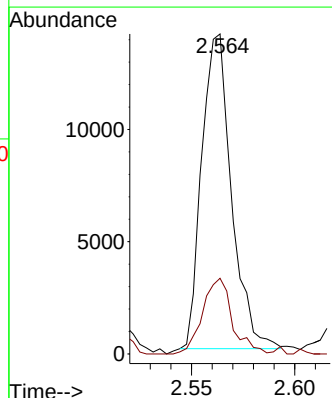
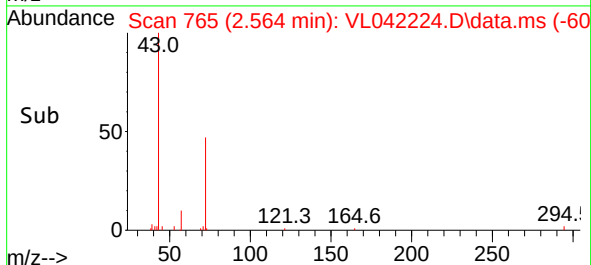
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

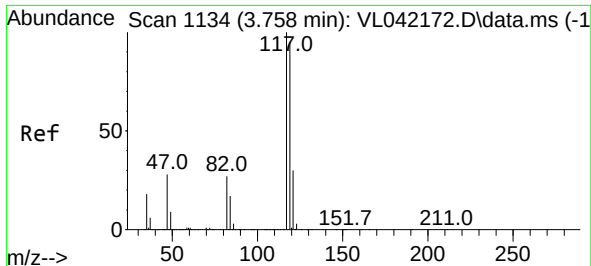


#34
2-Butanone
Concen: 0.383 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26



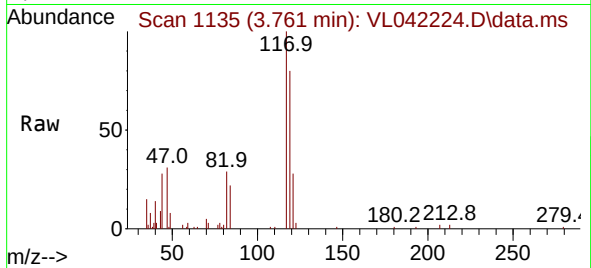
Tgt Ion: 43 Resp: 14042
Ion Ratio Lower Upper
43 100
72 25.0 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.205 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

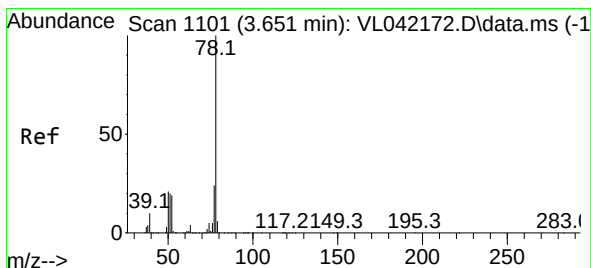
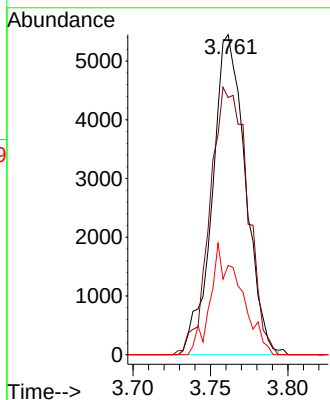
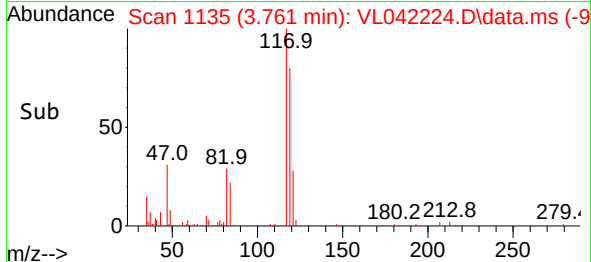
Instrument :
MSVOA_L
ClientSampleId :
IA3



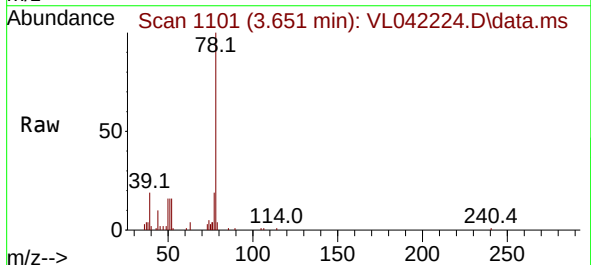
Tgt Ion: 117 Resp: 811
Ion Ratio Lower Upper
117 100
119 80.4 76.2 114.2
121 27.9 24.2 36.4

Manual Integrations
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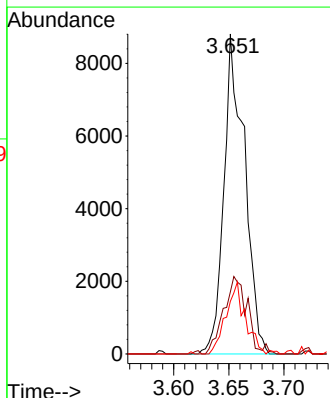
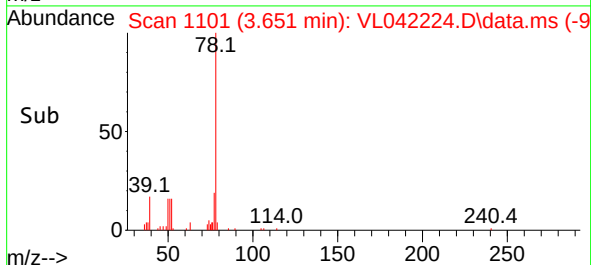
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

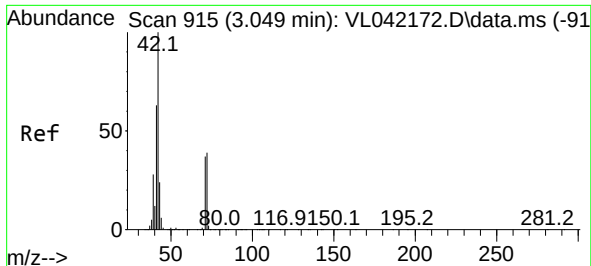


#36
Benzene
Concen: 0.229 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26



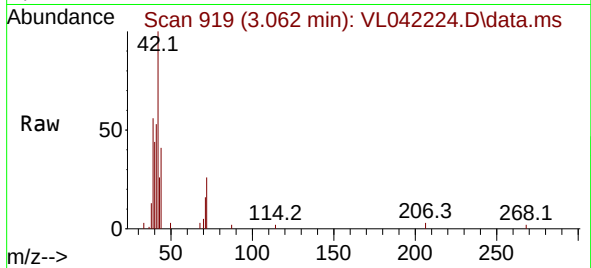
Tgt Ion: 78 Resp: 11487
Ion Ratio Lower Upper
78 100
77 19.4 19.1 28.7
50 16.4 16.6 24.8#





#41
Tetrahydrofuran
Concen: 0.191 ppbv m
RT: 3.062 min Scan# 915
Delta R.T. 0.013 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

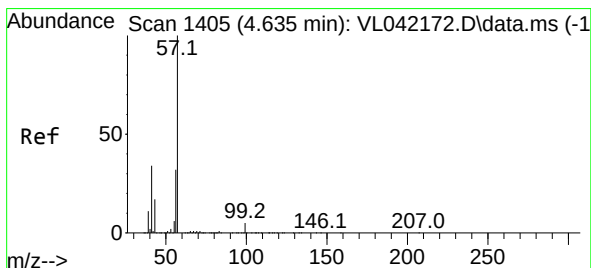
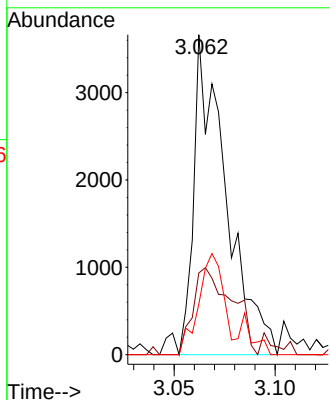
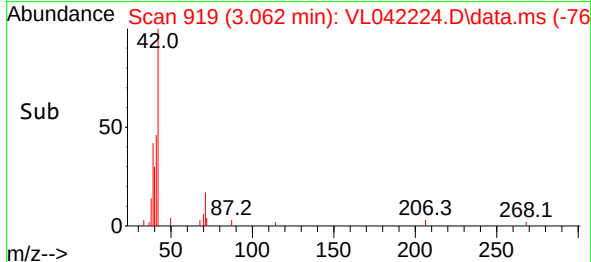
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 42 Resp: 4040
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 30.2 45.4#

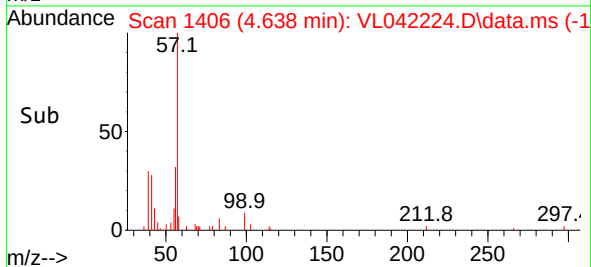
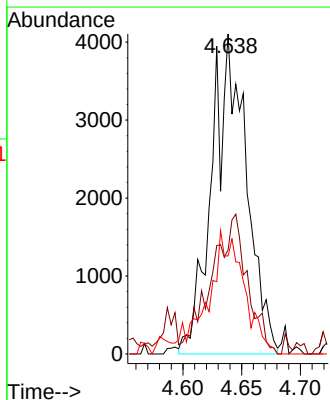
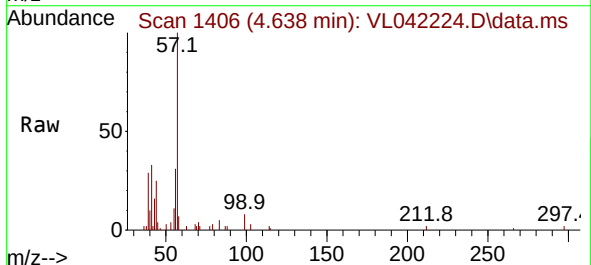
Manual Integrations
APPROVED

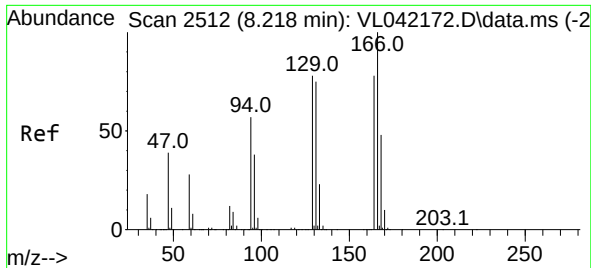
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#44
2,2,4-Trimethylpentane
Concen: 0.100 ppbv m
RT: 4.638 min Scan# 1406
Delta R.T. 0.003 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

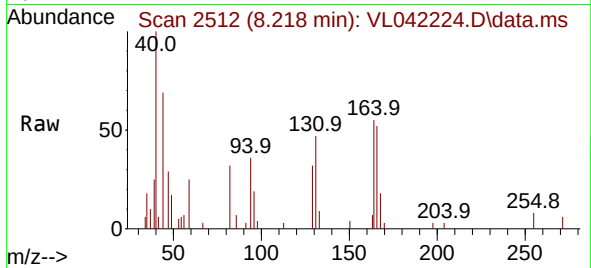
Tgt Ion: 57 Resp: 8430
Ion Ratio Lower Upper
57 100
41 54.8 26.8 40.2#
56 0.0 25.6 38.4#





#52
Tetrachloroethene
Concen: 0.083 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

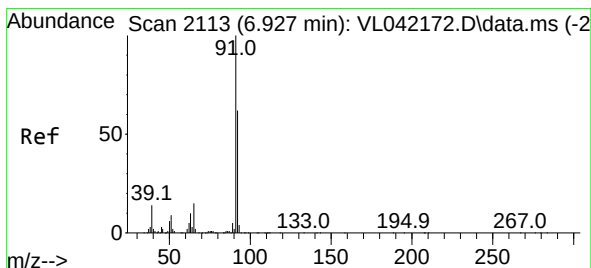
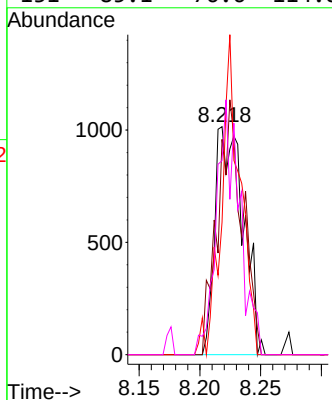
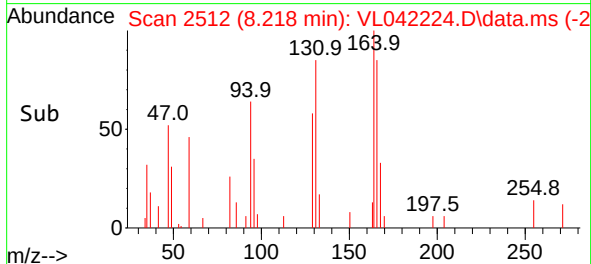
Instrument : MSVOA_L
ClientSampleId : IA3



Tgt Ion:164 Resp: 1648
Ion Ratio Lower Upper
164 100
166 94.5 102.5 153.7
129 58.1 79.8 119.8
131 85.1 76.6 114.8

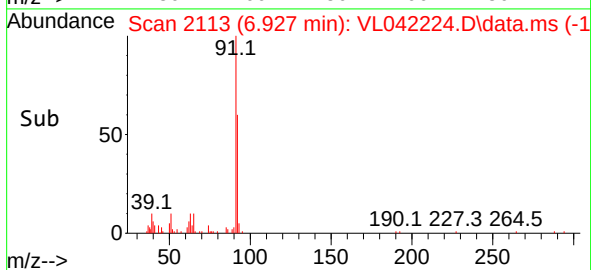
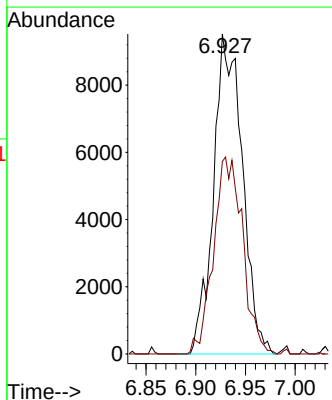
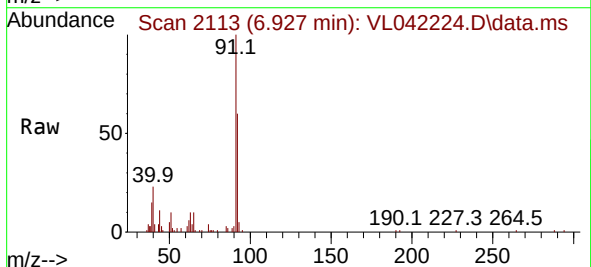
Manual Integrations
APPROVED

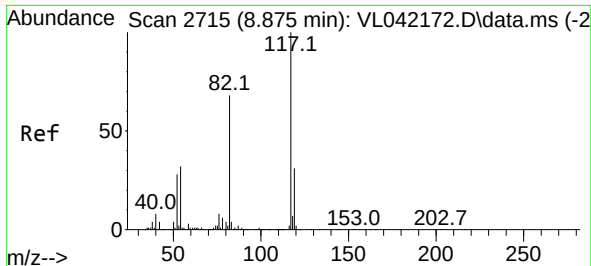
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#53
Toluene
Concen: 0.323 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

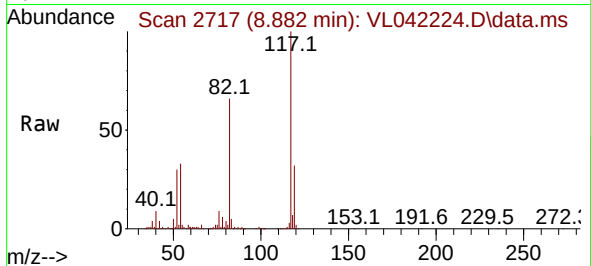
Tgt Ion: 91 Resp: 19163
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

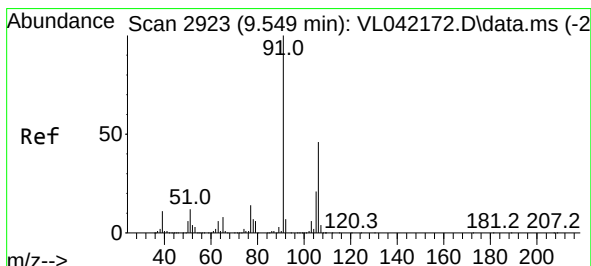
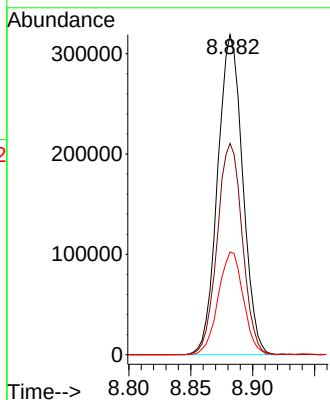
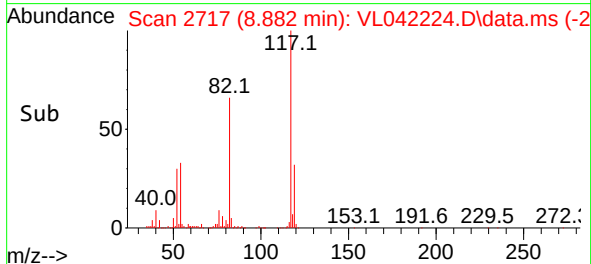
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:117 Resp: 44910
Ion Ratio Lower Upper
117 100
82 66.3 55.8 83.6
119 32.3 25.5 38.3

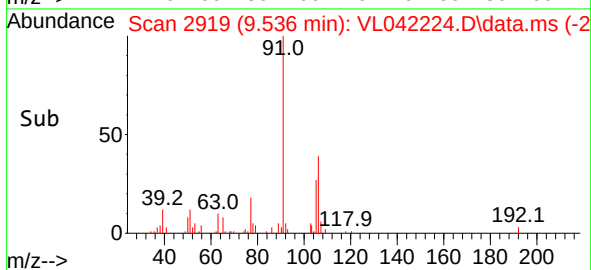
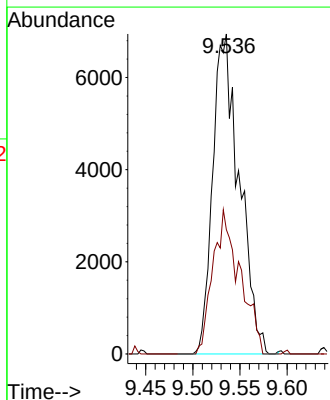
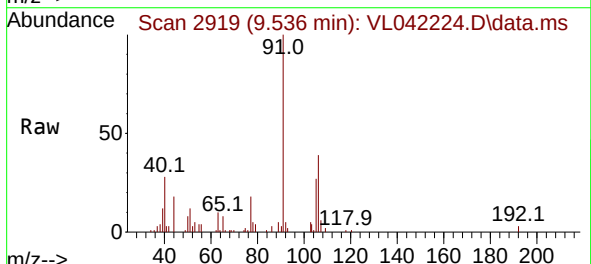
Manual Integrations
APPROVED

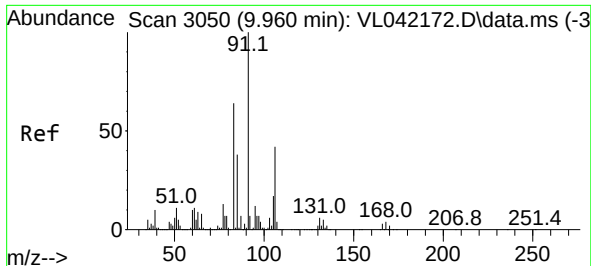
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#59
m/p-Xylene
Concen: 0.213 ppbv m
RT: 9.536 min Scan# 2919
Delta R.T. -0.013 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

Tgt Ion: 91 Resp: 13598
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6





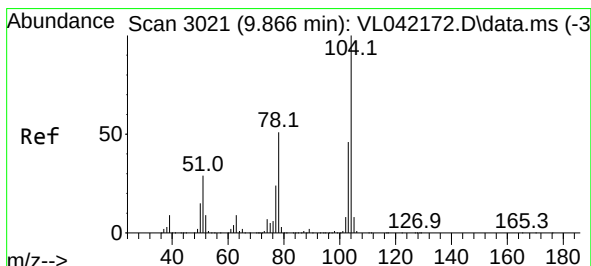
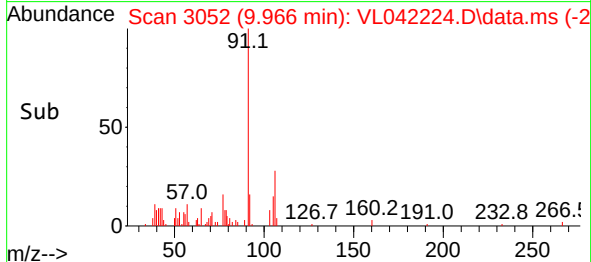
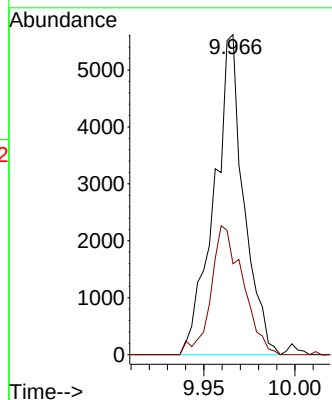
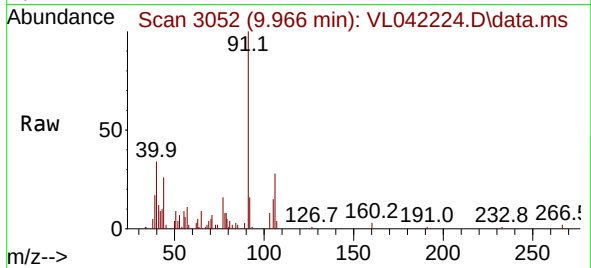
#60
o-Xylene
Concen: 0.100 ppbv
RT: 9.966 min Scan# 3050
Delta R.T. 0.006 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 91 Resp: 636
Ion Ratio Lower Upper
91 100
106 43.4 20.8 62.5

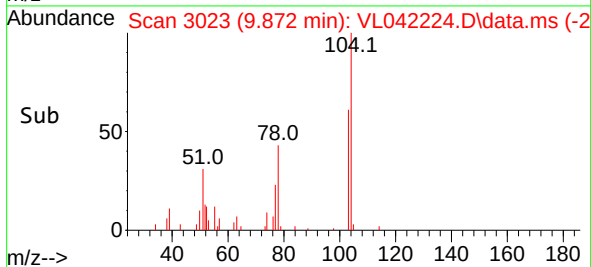
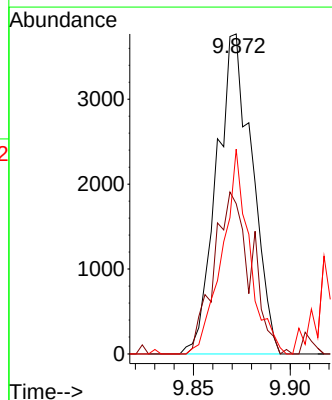
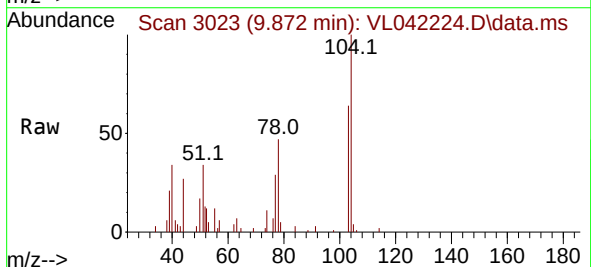
Manual Integrations
APPROVED

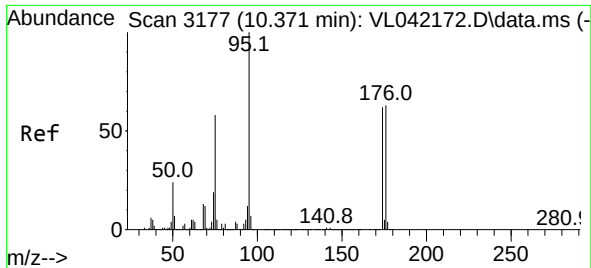
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#61
Styrene
Concen: 0.152 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.006 min
Lab File: VL042224.D
Acq: 04 Apr 2025 14:26

Tgt Ion:104 Resp: 4812
Ion Ratio Lower Upper
104 100
78 55.1 41.8 62.6
103 49.4 37.0 55.4





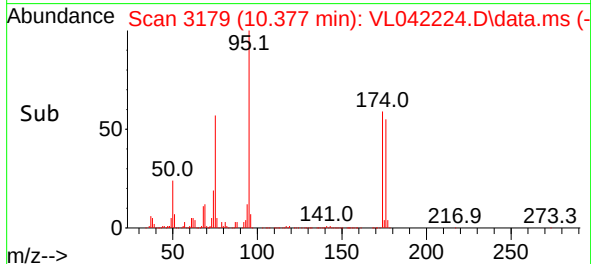
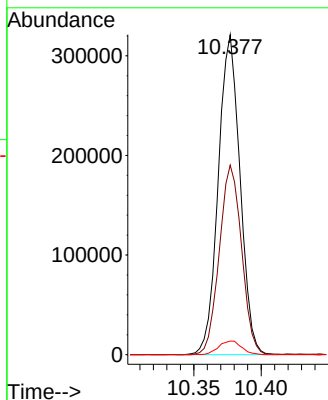
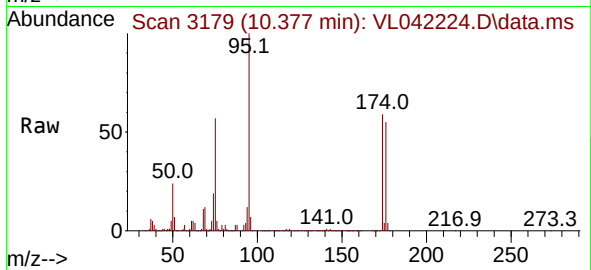
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.776 ppbv
 RT: 10.377 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VL042224.D
 Acq: 04 Apr 2025 14:26

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Tgt Ion: 95 Resp: 36055
 Ion Ratio Lower Upper
 95 100
 174 60.7 50.6 76.0
 175 4.5 3.8 5.6

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	IA3DUP	SDG No.:	Q1691
Lab Sample ID:	Q1691-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042225.D	1		04/04/25 15:50	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.41	2.03	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.83	1.71		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.16	0.47	J	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	6.40	15.2		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.85	2.95		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.35	1.03	J	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.18	1.13		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.74	3.61		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.19	0.61	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.34	1.28	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	IA3DUP	SDG No.:	Q1691
Lab Sample ID:	Q1691-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042225.D	1		04/04/25 15:50	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.22	0.96	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.14	0.60	J	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.54	1.90		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	192000		2.787			
540-36-3	1,4-Difluorobenzene	513000		3.955			
3114-55-4	Chlorobenzene-d5	454000		8.882			

Report of Analysis

Client:	GFE LLC	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	IA3DUP	SDG No.:	Q1691
Lab Sample ID:	Q1691-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042225.D	1		04/04/25 15:50	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL040425\
 Data File : VL042225.D
 Acq On : 04 Apr 2025 15:50
 Operator : SY/MD
 Sample : Q1691-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 05 02:04:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	191637	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	513363	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	453956	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	366110	9.821	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	11577	0.409	ppbv	94
3) Chlorodifluoromethane	1.473	51	11517m	0.398	ppbv	
4) Chloromethane	1.531	50	9642	0.834	ppbv	93
9) Propene	1.483	41	7226	0.545	ppbv	84
11) Trichlorofluoromethane	1.874	101	5797	0.211	ppbv	95
13) Ethanol	1.719	45	270063	215.627	ppbv	82
15) Acetone	1.835	43	171793	6.410	ppbv	89
19) Isopropyl Alcohol	1.884	45	194930	12.891	ppbv #	32
20) Methylene Chloride	2.062	84	8483	0.850	ppbv	94
26) Hexane	2.823	57	14615	0.544	ppbv #	45
29) Chloroform	2.845	83	29020	0.738	ppbv	92
34) 2-Butanone	2.560	43	13008	0.349	ppbv	93
35) Carbon Tetrachloride	3.761	117	7306	0.182	ppbv	90
36) Benzene	3.658	78	9716	0.191	ppbv #	91
41) Tetrahydrofuran	3.065	42	3457m	0.161	ppbv	
44) 2,2,4-Trimethylpentane	4.629	57	8877m	0.103	ppbv	
52) Tetrachloroethene	8.221	164	6044m	0.299	ppbv	
53) Toluene	6.933	91	20232	0.335	ppbv	99
59) m/p-Xylene	9.529	91	14255	0.221	ppbv	96
61) Styrene	9.866	104	4302m	0.135	ppbv	

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

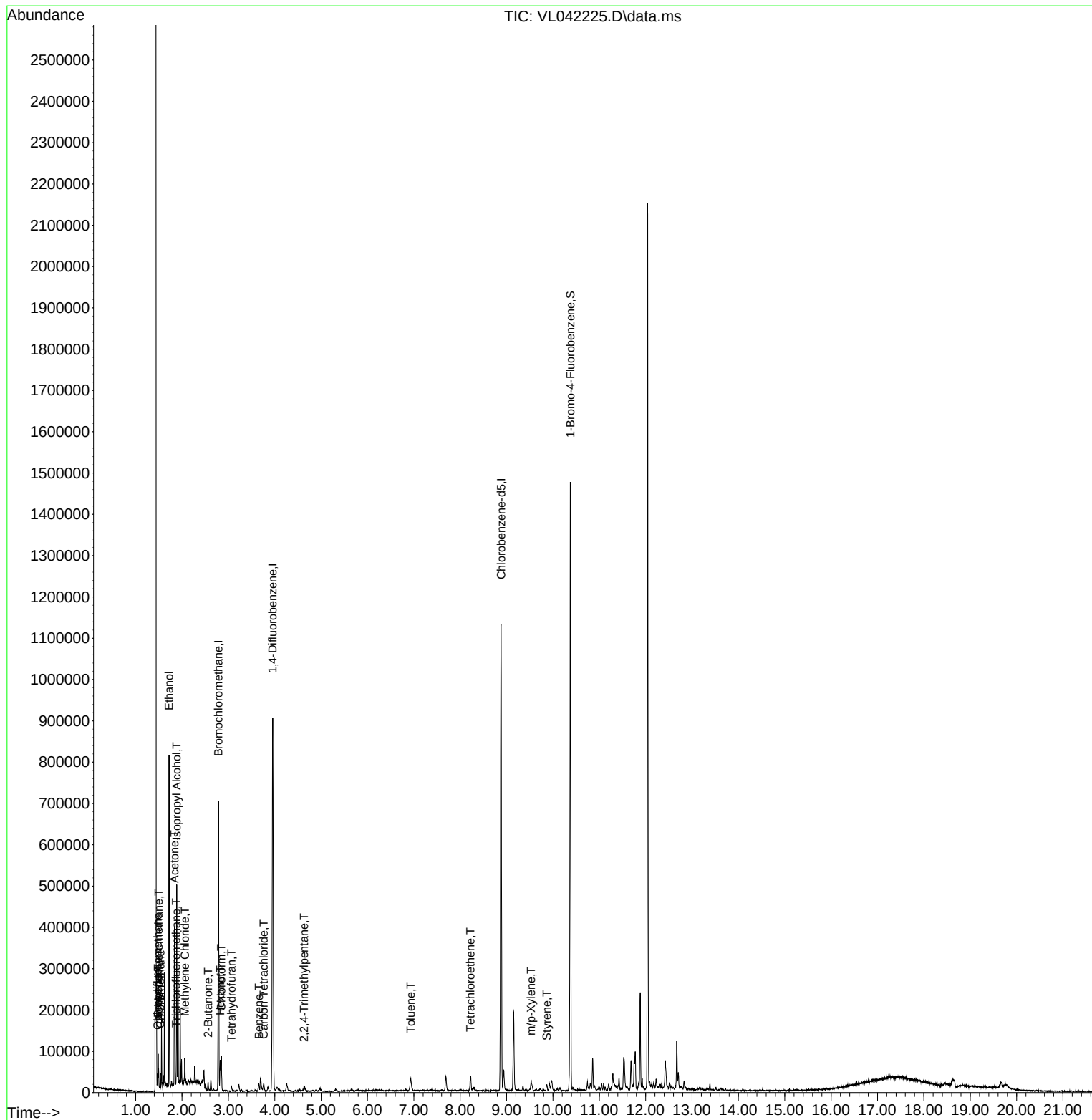
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
Data File : VL042225.D
Acq On : 04 Apr 2025 15:50
Operator : SY/MD
Sample : Q1691-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

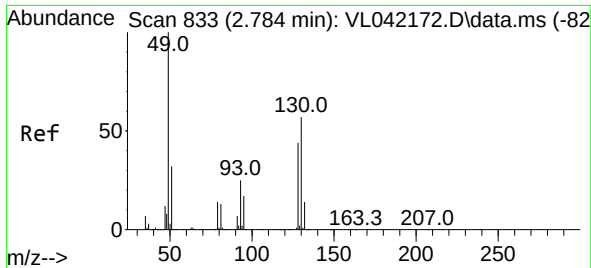
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Quant Time: Apr 05 02:04:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025





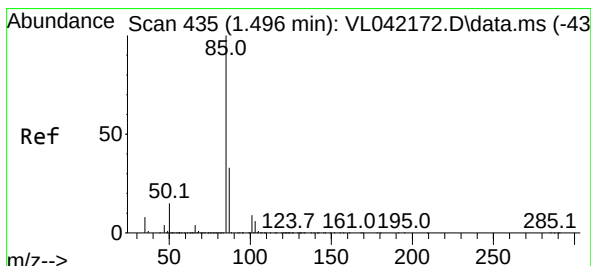
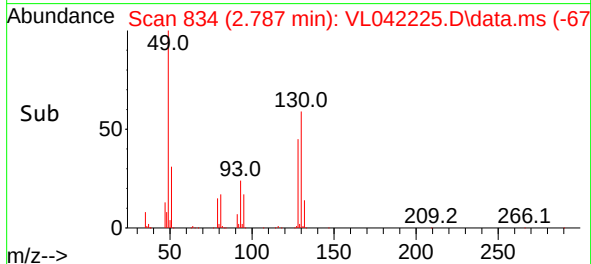
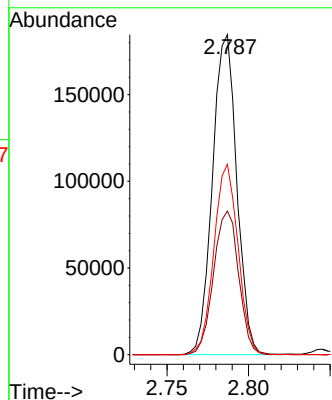
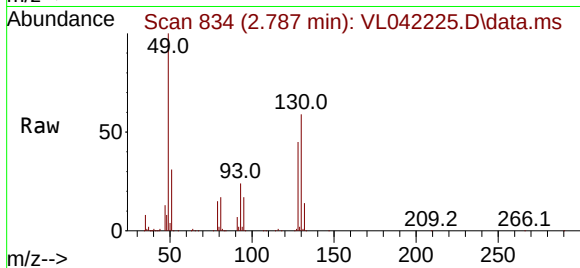
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Tgt Ion: 49 Resp: 19163
Ion Ratio Lower Upper
49 100
128 46.2 22.9 68.5
130 59.0 28.8 86.4

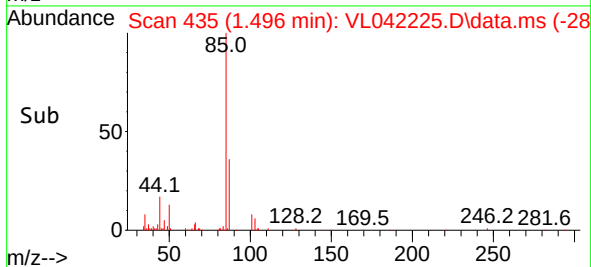
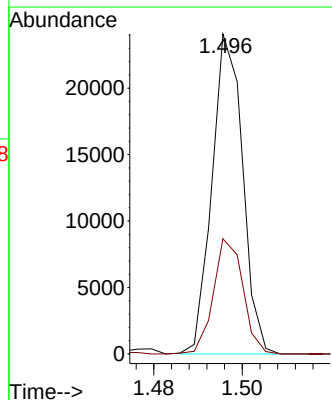
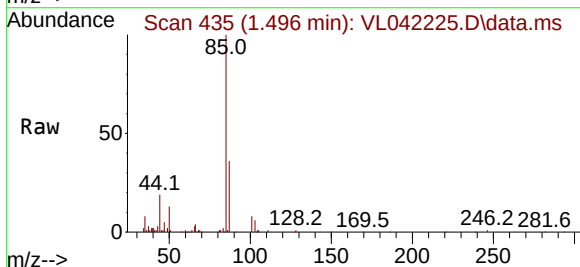
Manual Integrations
APPROVED

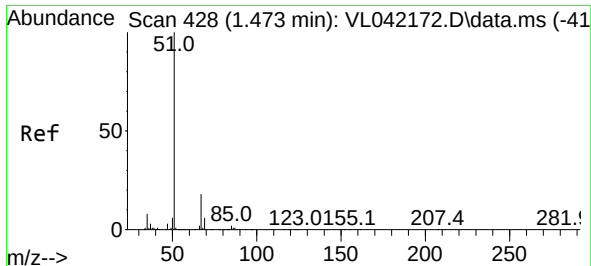
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#2
Dichlorodifluoromethane
Concen: 0.409 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Tgt Ion: 85 Resp: 11577
Ion Ratio Lower Upper
85 100
87 36.0 26.1 39.1





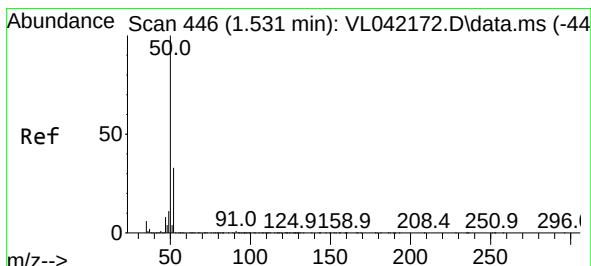
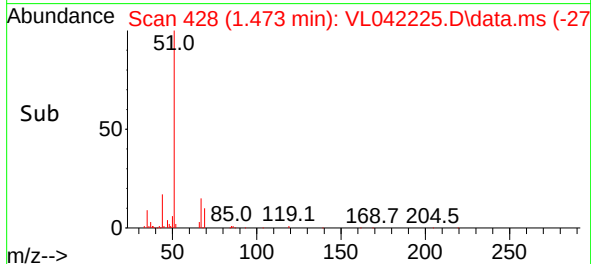
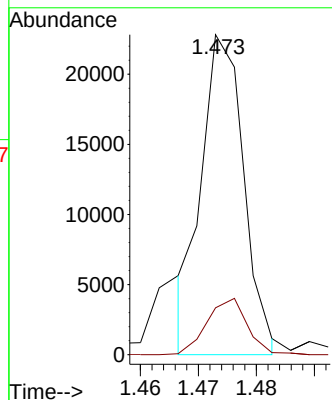
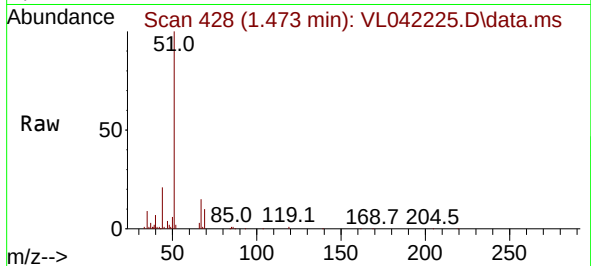
#3
Chlorodifluoromethane
Concen: 0.398 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Instrument :
MSVOA_L
ClientSampleId :
IA3DUP

Tgt Ion: 51 Resp: 1151
Ion Ratio Lower Upper
51 100
67 17.4 15.0 22.6

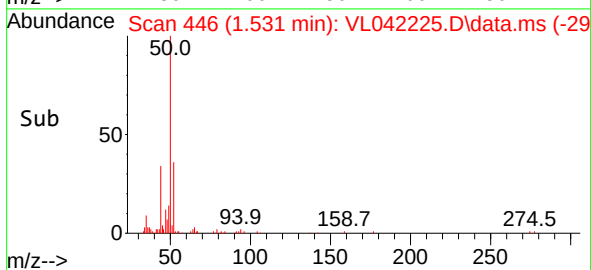
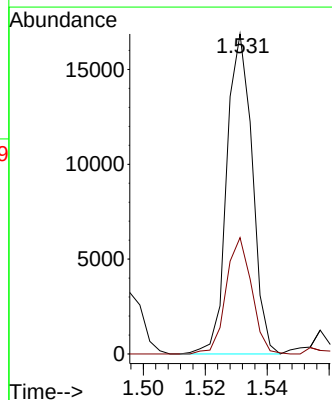
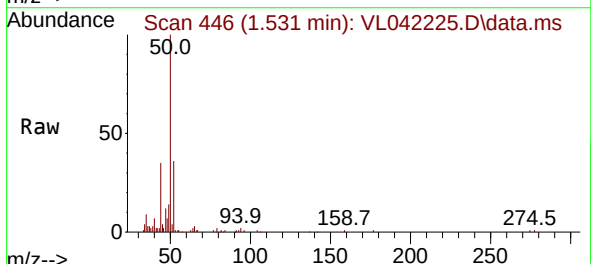
Manual Integrations
APPROVED

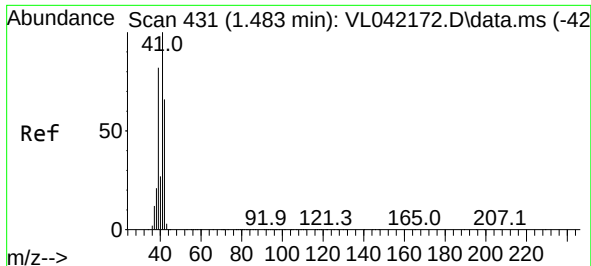
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#4
Chloromethane
Concen: 0.834 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Tgt Ion: 50 Resp: 9642
Ion Ratio Lower Upper
50 100
52 36.4 26.1 39.1





#9

Propene

Concen: 0.545 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042225.D

Acq: 04 Apr 2025 15:50

Instrument :

MSVOA_L

ClientSampleId :

IA3DUP

Tgt Ion: 41 Resp: 7220

Ion Ratio Lower Upper

41 100

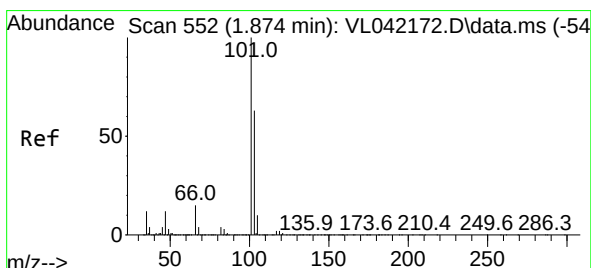
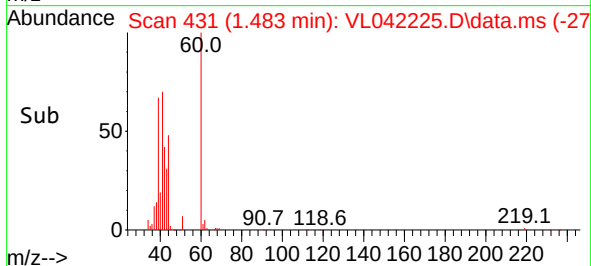
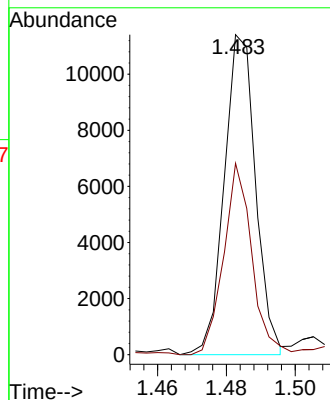
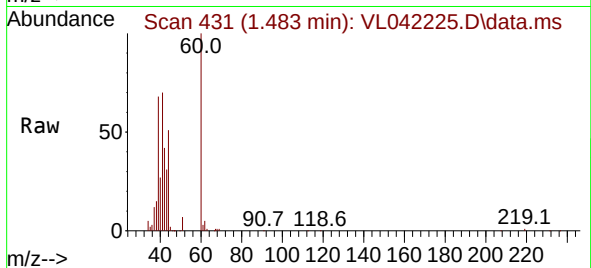
42 56.6 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#11

Trichlorofluoromethane

Concen: 0.211 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL042225.D

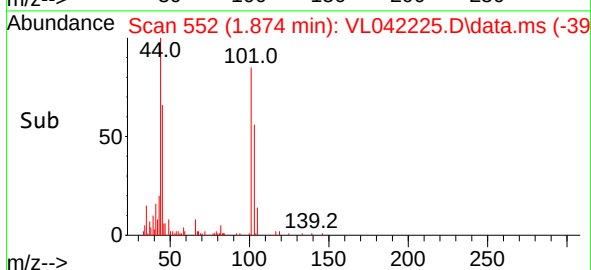
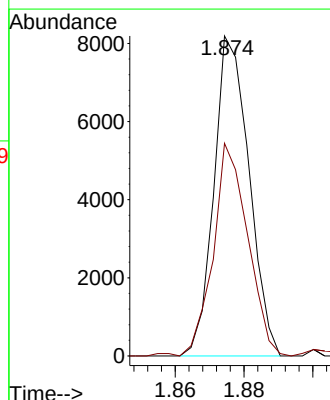
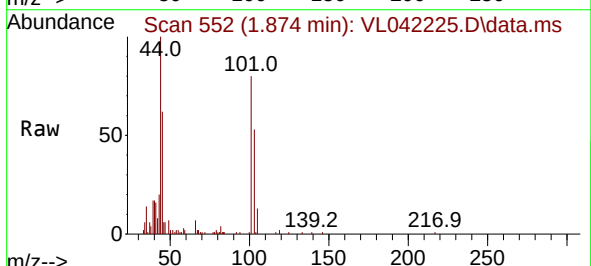
Acq: 04 Apr 2025 15:50

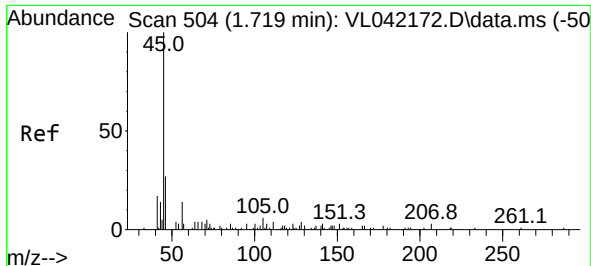
Tgt Ion:101 Resp: 5797

Ion Ratio Lower Upper

101 100

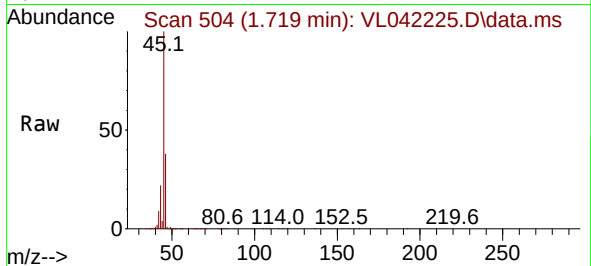
103 66.5 50.2 75.2





#13
Ethanol
Concen: 215.627 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

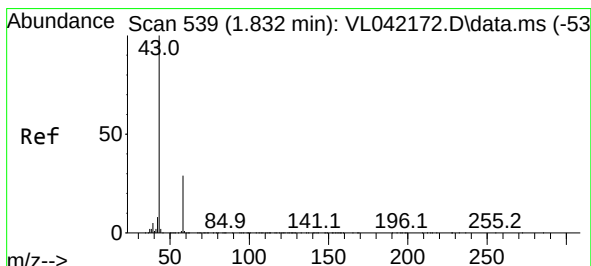
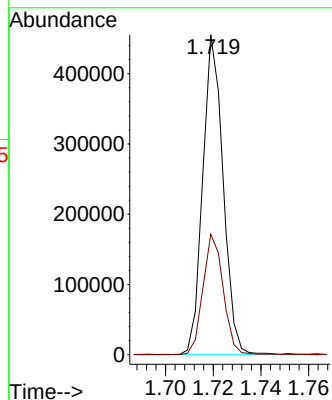
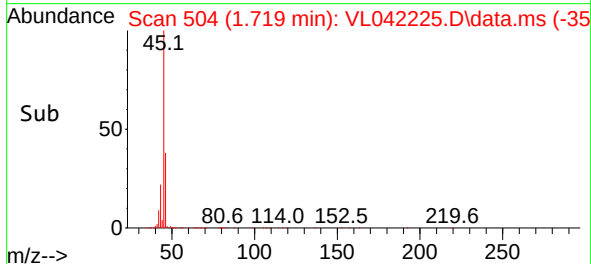
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



Tgt Ion: 45 Resp: 270063
Ion Ratio Lower Upper
45 100
46 37.7 20.2 80.8

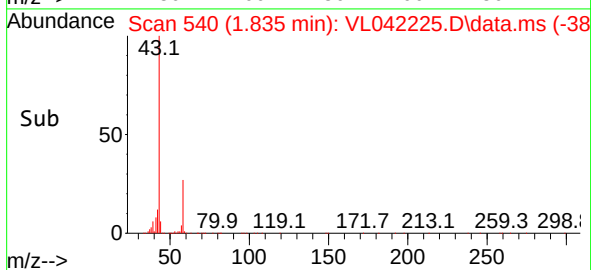
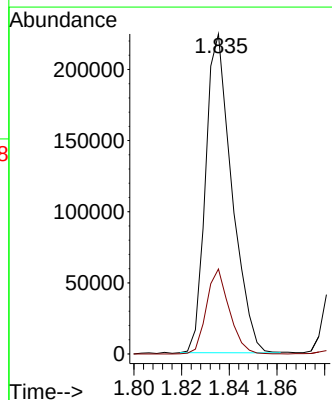
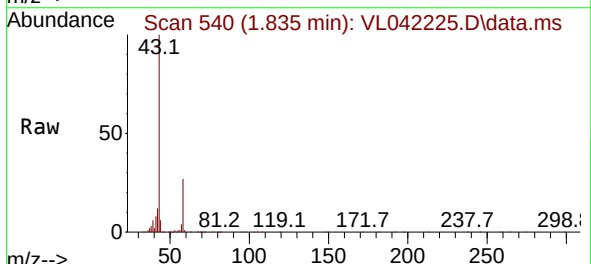
Manual Integrations
APPROVED

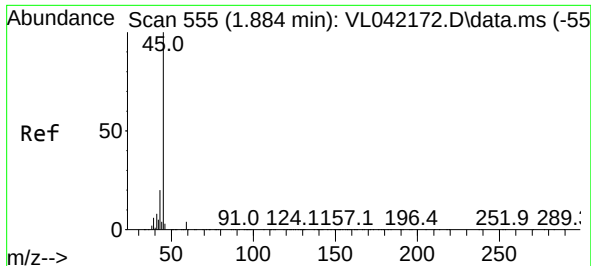
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#15
Acetone
Concen: 6.410 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

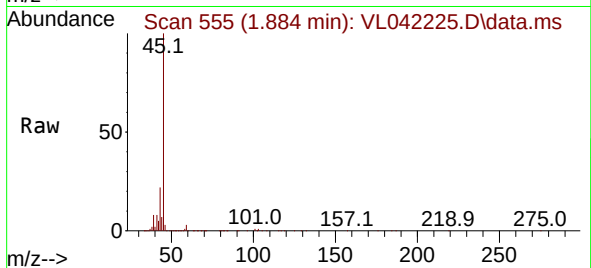
Tgt Ion: 43 Resp: 171793
Ion Ratio Lower Upper
43 100
58 23.3 23.2 34.8





#19
Isopropyl Alcohol
Concen: 12.891 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

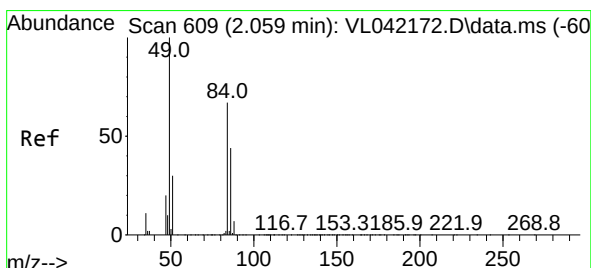
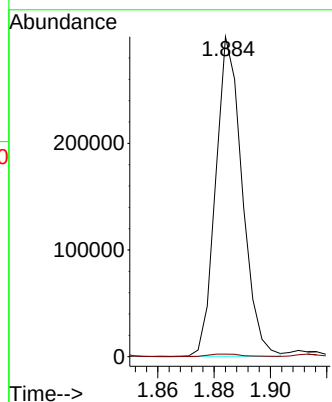
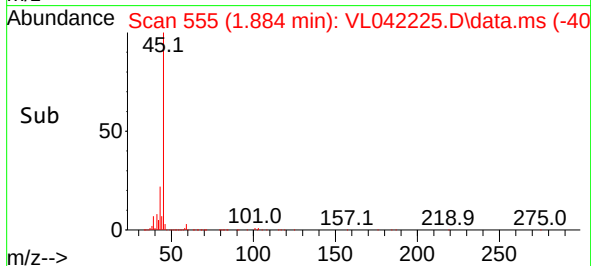
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



Tgt Ion: 45 Resp: 194930
Ion Ratio Lower Upper
45 100
58 1.2 36.9 55.3

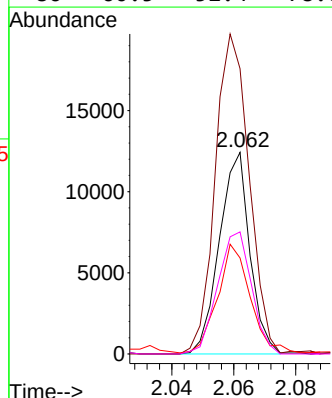
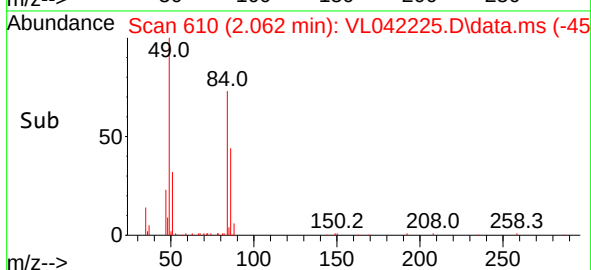
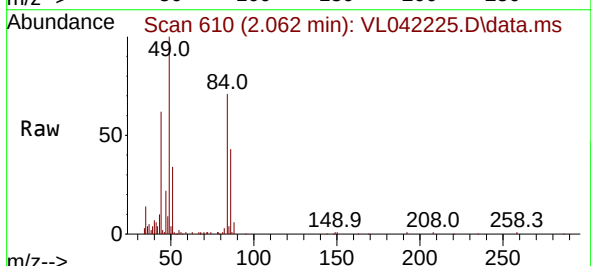
Manual Integrations
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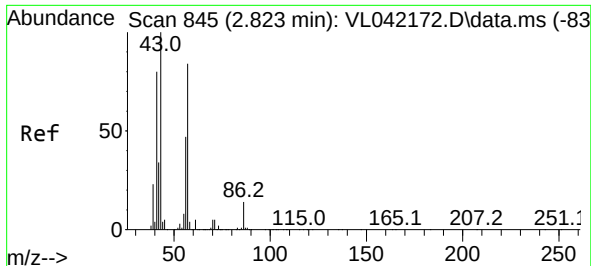
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#20
Methylene Chloride
Concen: 0.850 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

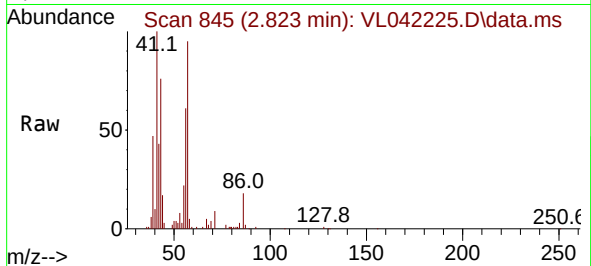
Tgt Ion: 84 Resp: 8483
Ion Ratio Lower Upper
84 100
49 141.5 120.2 180.4
51 47.0 37.4 56.0
86 60.5 52.4 78.6





#26
Hexane
Concen: 0.544 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

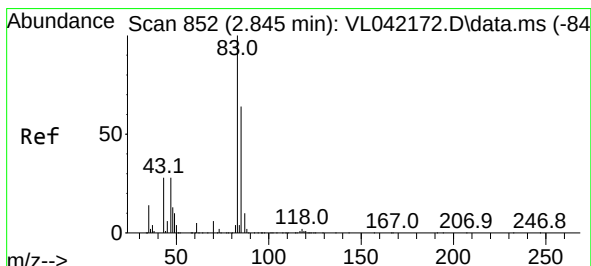
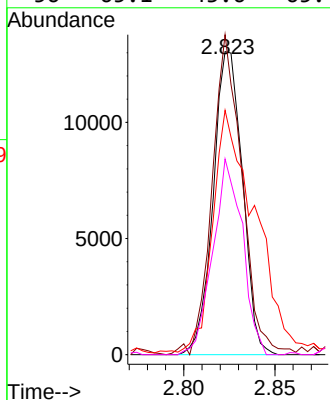
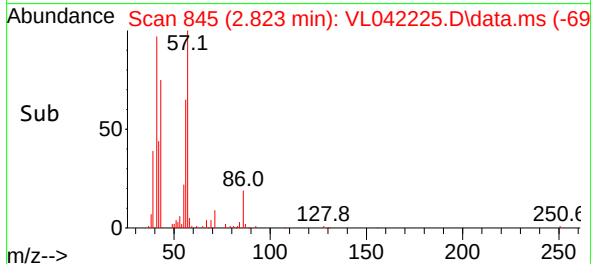
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



Tgt Ion: 57 Resp: 14615
Ion Ratio Lower Upper
57 100
41 111.1 76.6 114.8
43 119.2 207.8 311.8
56 65.1 43.6 65.4

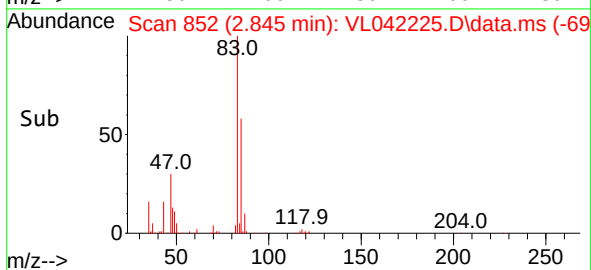
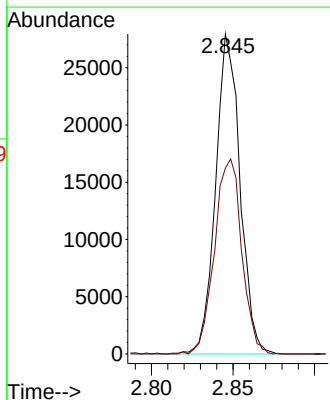
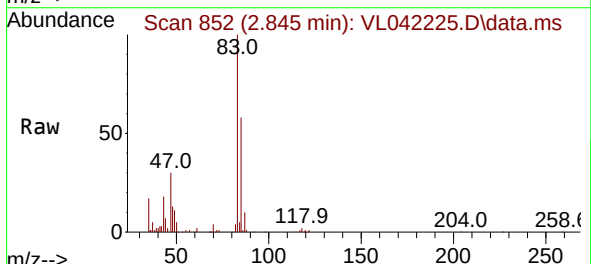
Manual Integrations
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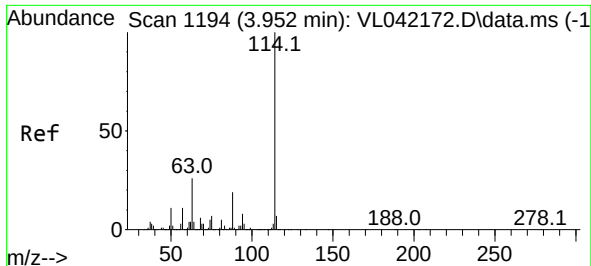
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#29
Chloroform
Concen: 0.738 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

Tgt Ion: 83 Resp: 29020
Ion Ratio Lower Upper
83 100
85 57.9 51.4 77.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042225.D

Acq: 04 Apr 2025 15:50

Instrument :

MSVOA_L

ClientSampleId :

IA3DUP

Tgt Ion:114 Resp: 51336

Ion Ratio Lower Upper

114 100

63 26.2 20.7 31.1

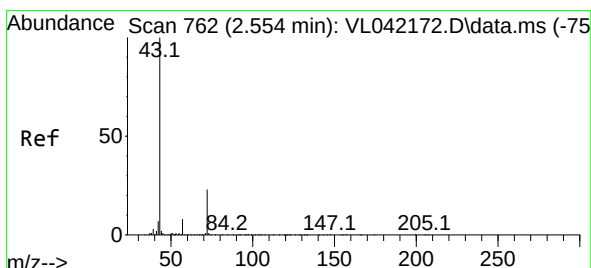
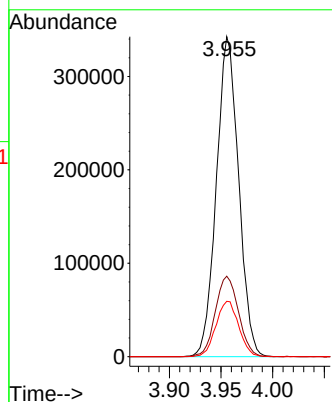
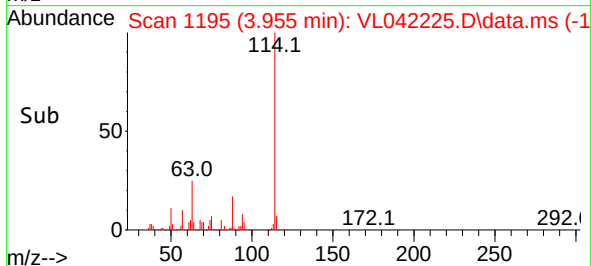
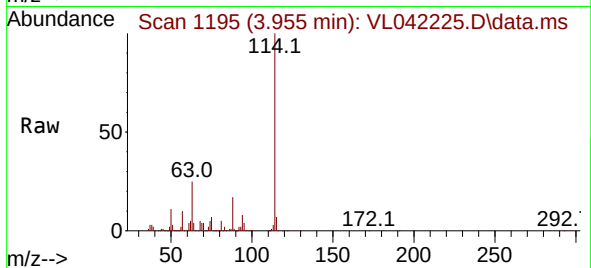
88 17.7 15.0 22.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#34

2-Butanone

Concen: 0.349 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.006 min

Lab File: VL042225.D

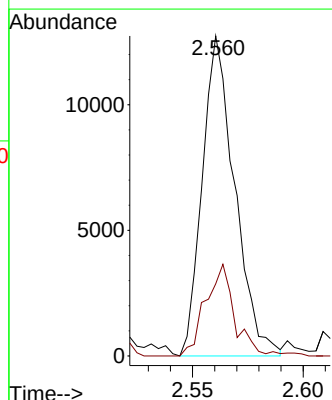
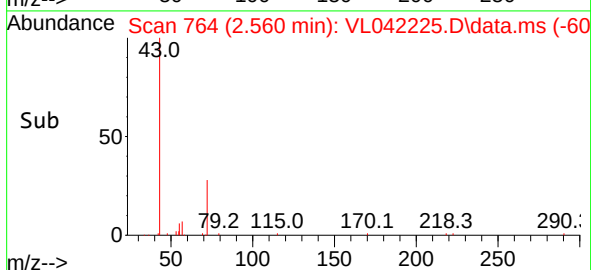
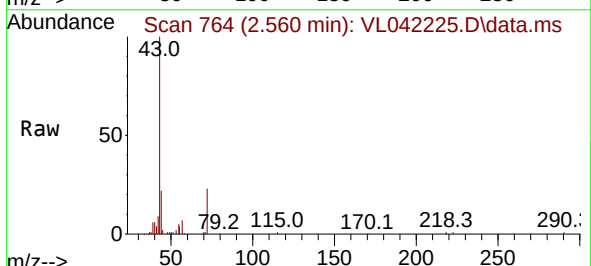
Acq: 04 Apr 2025 15:50

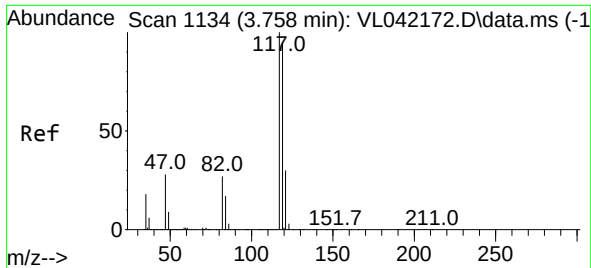
Tgt Ion: 43 Resp: 13008

Ion Ratio Lower Upper

43 100

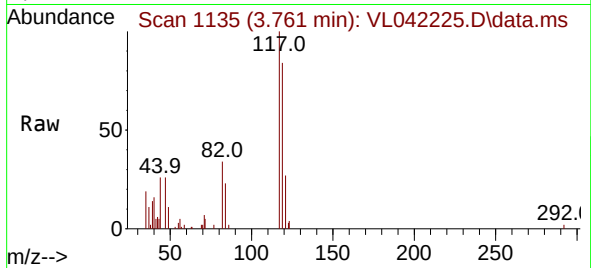
72 26.1 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.182 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

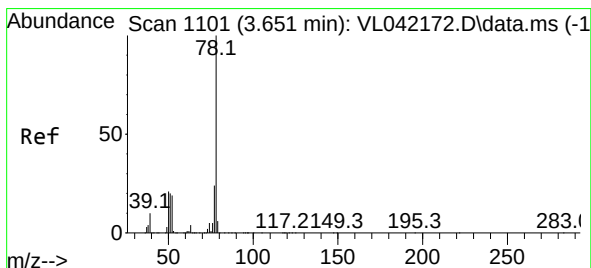
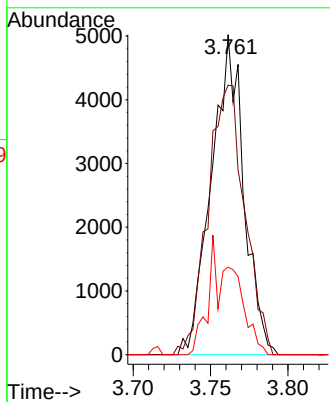
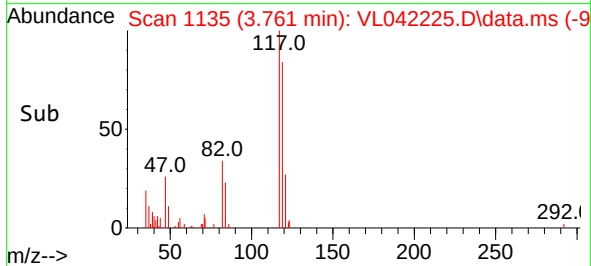
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



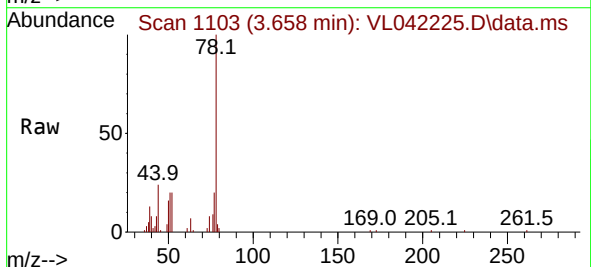
Tgt Ion:117 Resp: 7300
Ion Ratio Lower Upper
117 100
119 84.2 76.2 114.2
121 27.3 24.2 36.4

Manual Integrations
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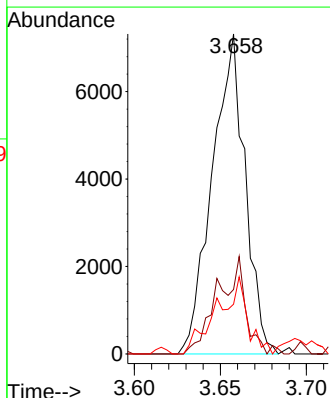
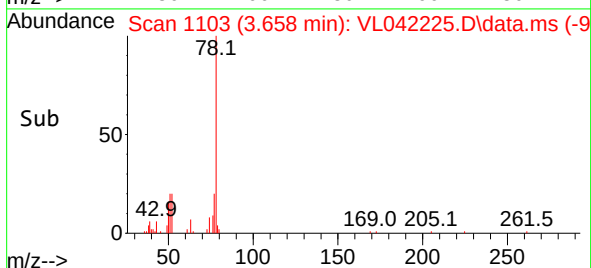
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

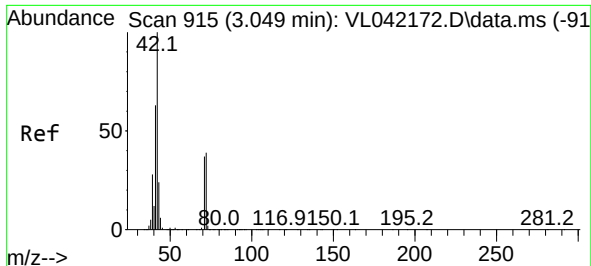


#36
Benzene
Concen: 0.191 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50



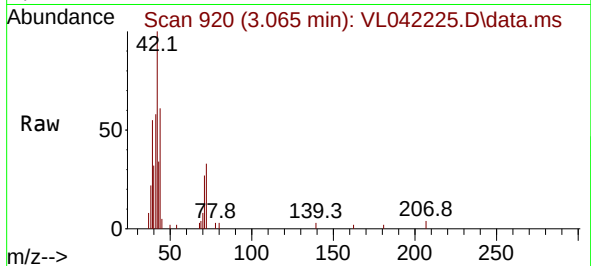
Tgt Ion: 78 Resp: 9716
Ion Ratio Lower Upper
78 100
77 20.1 19.1 28.7
50 15.6 16.6 24.8#





#41
Tetrahydrofuran
Concen: 0.161 ppbv m
RT: 3.065 min Scan# 915
Delta R.T. 0.016 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

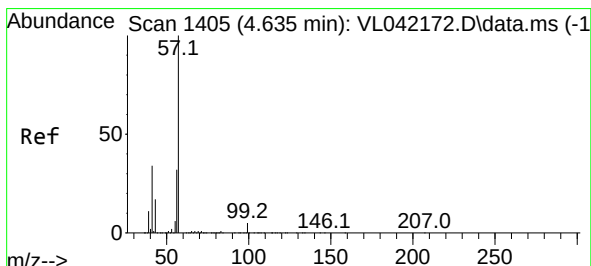
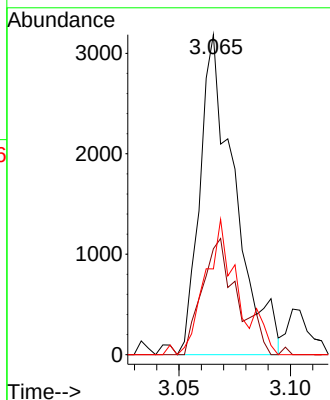
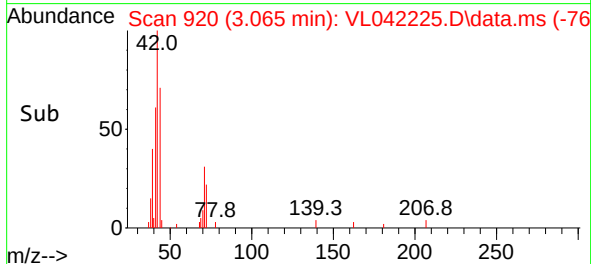
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



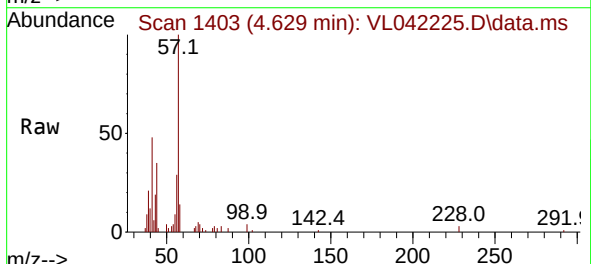
Tgt Ion: 42 Resp: 345
Ion Ratio Lower Upper
42 100
72 0.0 31.4 47.0#
71 0.0 30.2 45.4#

Manual Integrations
APPROVED

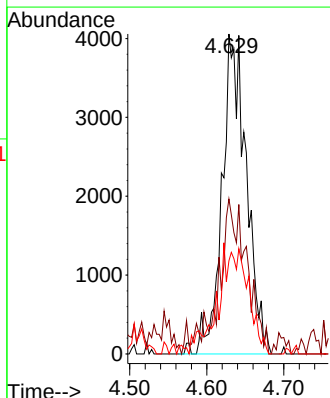
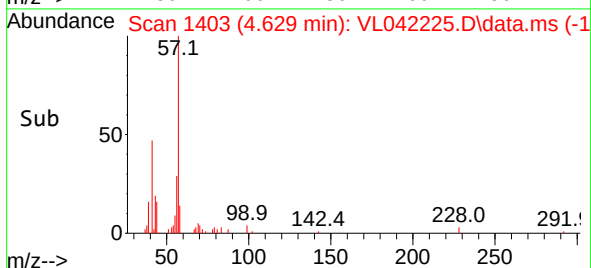
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

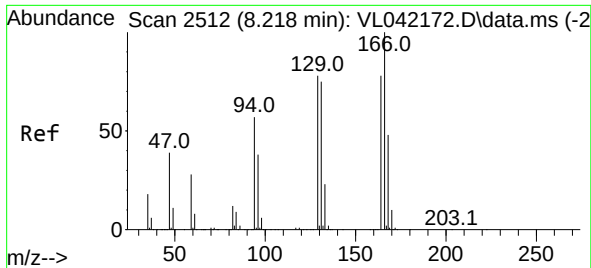


#44
2,2,4-Trimethylpentane
Concen: 0.103 ppbv m
RT: 4.629 min Scan# 1403
Delta R.T. -0.007 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50



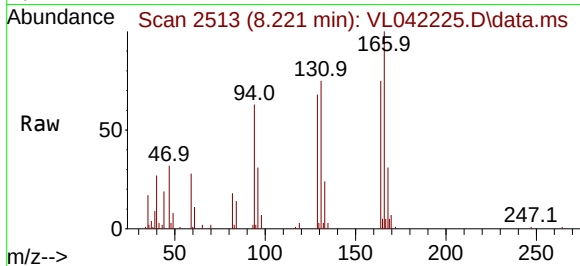
Tgt Ion: 57 Resp: 8877
Ion Ratio Lower Upper
57 100
41 0.0 26.8 40.2#
56 0.0 25.6 38.4#





#52
Tetrachloroethene
Concen: 0.299 ppbv m
RT: 8.221 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

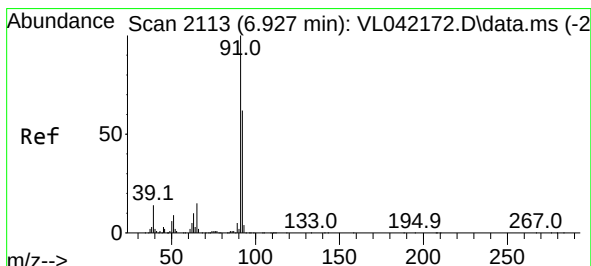
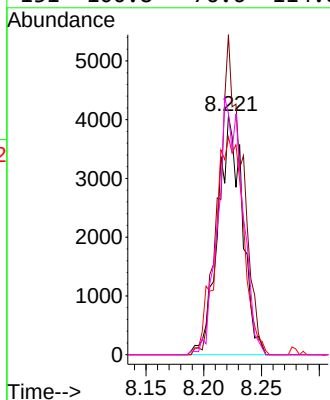
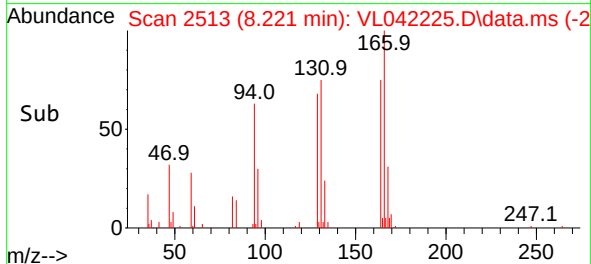
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



Tgt Ion:164 Resp: 604
Ion Ratio Lower Upper
164 100
166 133.9 102.5 153.7
129 91.1 79.8 119.8
131 100.8 76.6 114.8

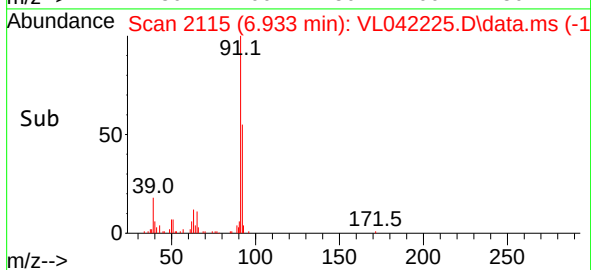
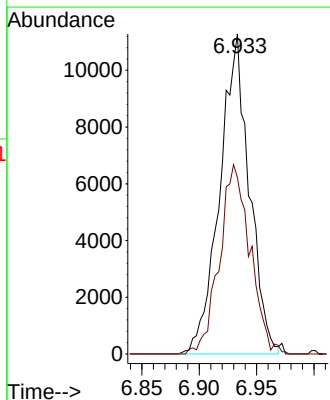
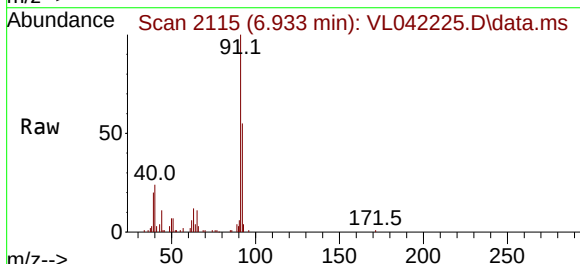
Manual Integrations
APPROVED

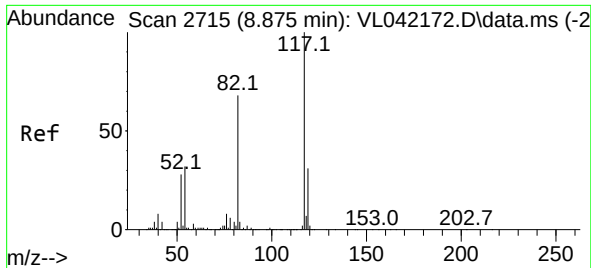
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#53
Toluene
Concen: 0.335 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.006 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

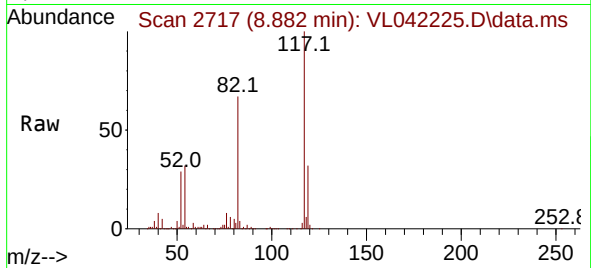
Tgt Ion: 91 Resp: 20232
Ion Ratio Lower Upper
91 100
92 61.2 48.4 72.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

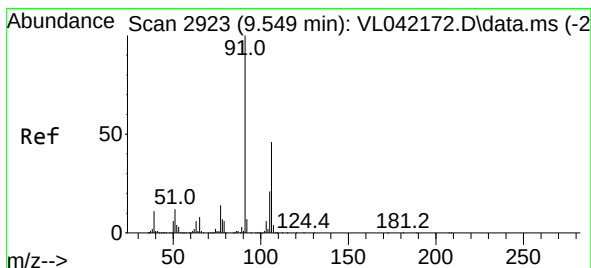
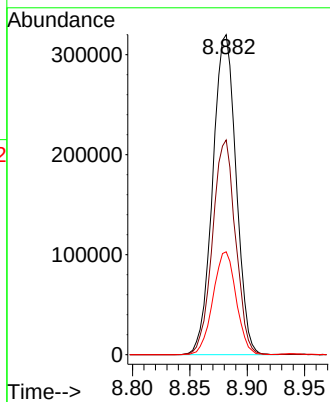
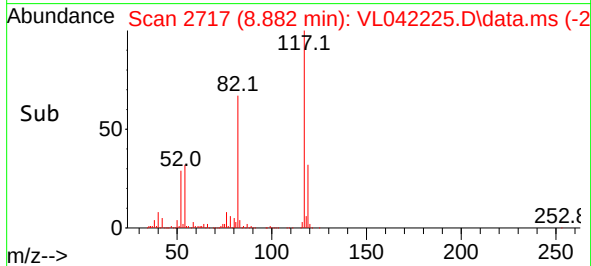
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



Tgt Ion:117 Resp: 453950
Ion Ratio Lower Upper
117 100
82 66.1 55.8 83.6
119 31.9 25.5 38.3

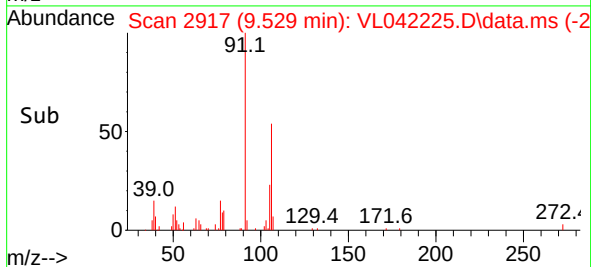
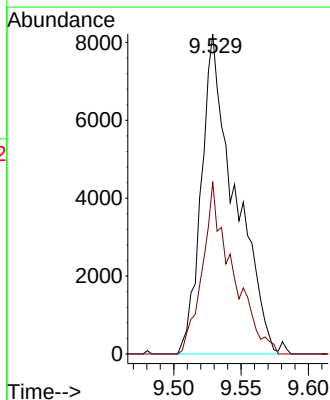
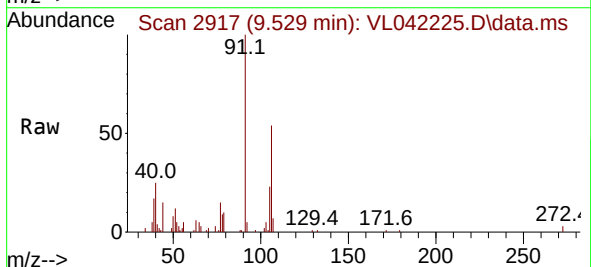
Manual Integrations
APPROVED

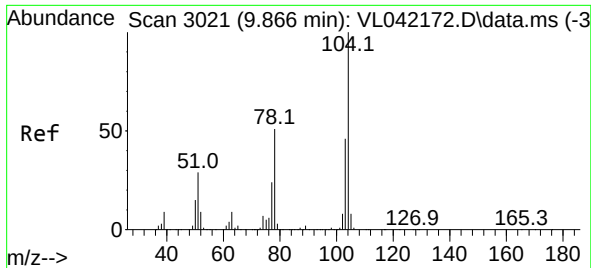
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#59
m/p-Xylene
Concen: 0.221 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.020 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

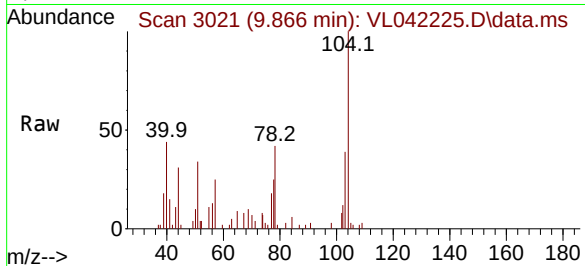
Tgt Ion: 91 Resp: 14255
Ion Ratio Lower Upper
91 100
106 48.1 36.4 54.6





#61
Styrene
Concen: 0.135 ppbv m
RT: 9.866 min Scan# 3021
Delta R.T. -0.000 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50

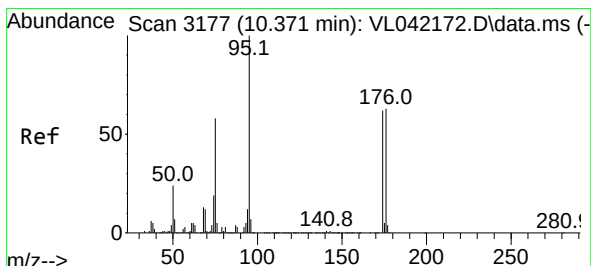
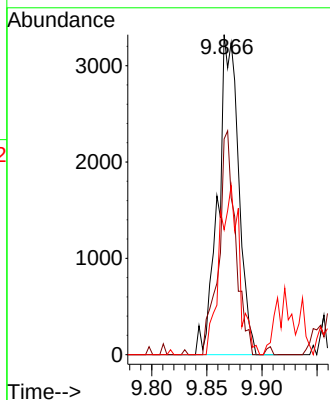
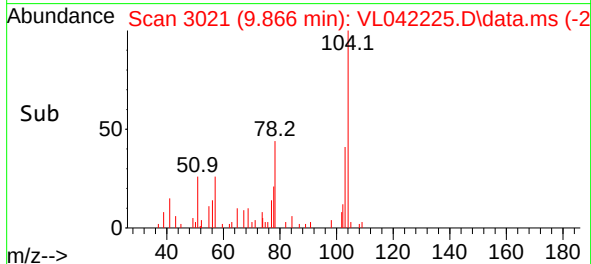
Instrument :
MSVOA_L
ClientSampleId :
IA3DUP



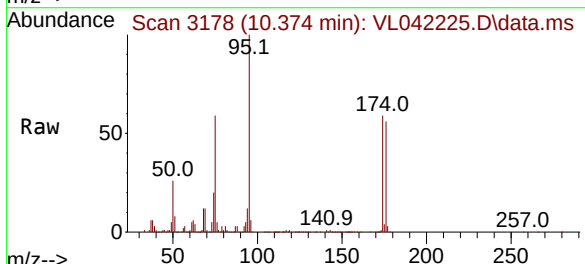
Tgt Ion:104 Resp: 4302
Ion Ratio Lower Upper
104 100
78 58.2 41.8 62.6
103 51.2 37.0 55.4

Manual Integrations
APPROVED

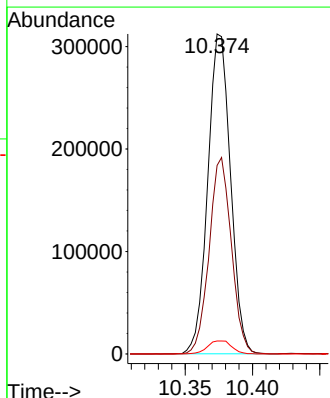
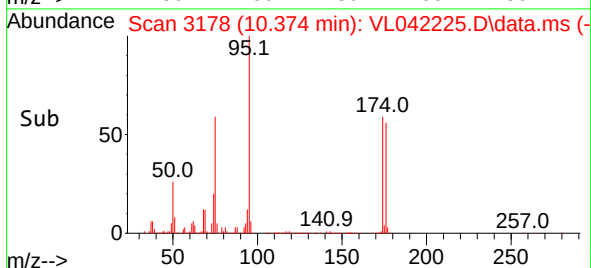
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.821 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042225.D
Acq: 04 Apr 2025 15:50



Tgt Ion: 95 Resp: 366110
Ion Ratio Lower Upper
95 100
174 60.1 50.6 76.0
175 4.4 3.8 5.6



Report of Analysis

Client:	GFE LLC	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	OA1	SDG No.:	Q1691
Lab Sample ID:	Q1691-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042226.D	1		04/04/25 16:24	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.41	2.03	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.54	1.12		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.21	1.18	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	4.50	10.7		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.49	1.70	J	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.34	1.00	J	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.16	0.51	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.31	1.17	J	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	OA1	SDG No.:	Q1691
Lab Sample ID:	Q1691-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042226.D	1		04/04/25 16:24	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.37	2.51		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.23	0.81	J	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	195000		2.784			
540-36-3	1,4-Difluorobenzene	518000		3.955			
3114-55-4	Chlorobenzene-d5	453000		8.878			

Report of Analysis

Client:	GFE LLC	Date Collected:	03/31/25
Project:	416 Clinton St Hempstead	Date Received:	04/01/25
Client Sample ID:	OA1	SDG No.:	Q1691
Lab Sample ID:	Q1691-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042226.D	1		04/04/25 16:24	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL040425\
 Data File : VL042226.D
 Acq On : 04 Apr 2025 16:24
 Operator : SY/MD
 Sample : Q1691-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 05 02:05:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	194580	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	518092	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	453107	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	364662	9.800	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	11891	0.414	ppbv	91
3) Chlorodifluoromethane	1.473	51	8406m	0.286	ppbv	
4) Chloromethane	1.531	50	6382	0.544	ppbv	94
9) Propene	1.483	41	5786	0.430	ppbv	89
11) Trichlorofluoromethane	1.874	101	5744	0.205	ppbv	98
13) Ethanol	1.719	45	28404	22.336	ppbv	87
15) Acetone	1.835	43	122167	4.489	ppbv	91
19) Isopropyl Alcohol	1.884	45	13718	0.893	ppbv #	1
20) Methylene Chloride	2.059	84	4996	0.493	ppbv	89
26) Hexane	2.823	57	6248	0.229	ppbv #	41
34) 2-Butanone	2.560	43	12639	0.336	ppbv	95
35) Carbon Tetrachloride	3.761	117	2994m	0.074	ppbv	
36) Benzene	3.648	78	8042	0.157	ppbv #	90
52) Tetrachloroethene	8.221	164	7487	0.368	ppbv	93
53) Toluene	6.933	91	19011m	0.312	ppbv	
59) m/p-Xylene	9.529	91	7889m	0.123	ppbv	

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

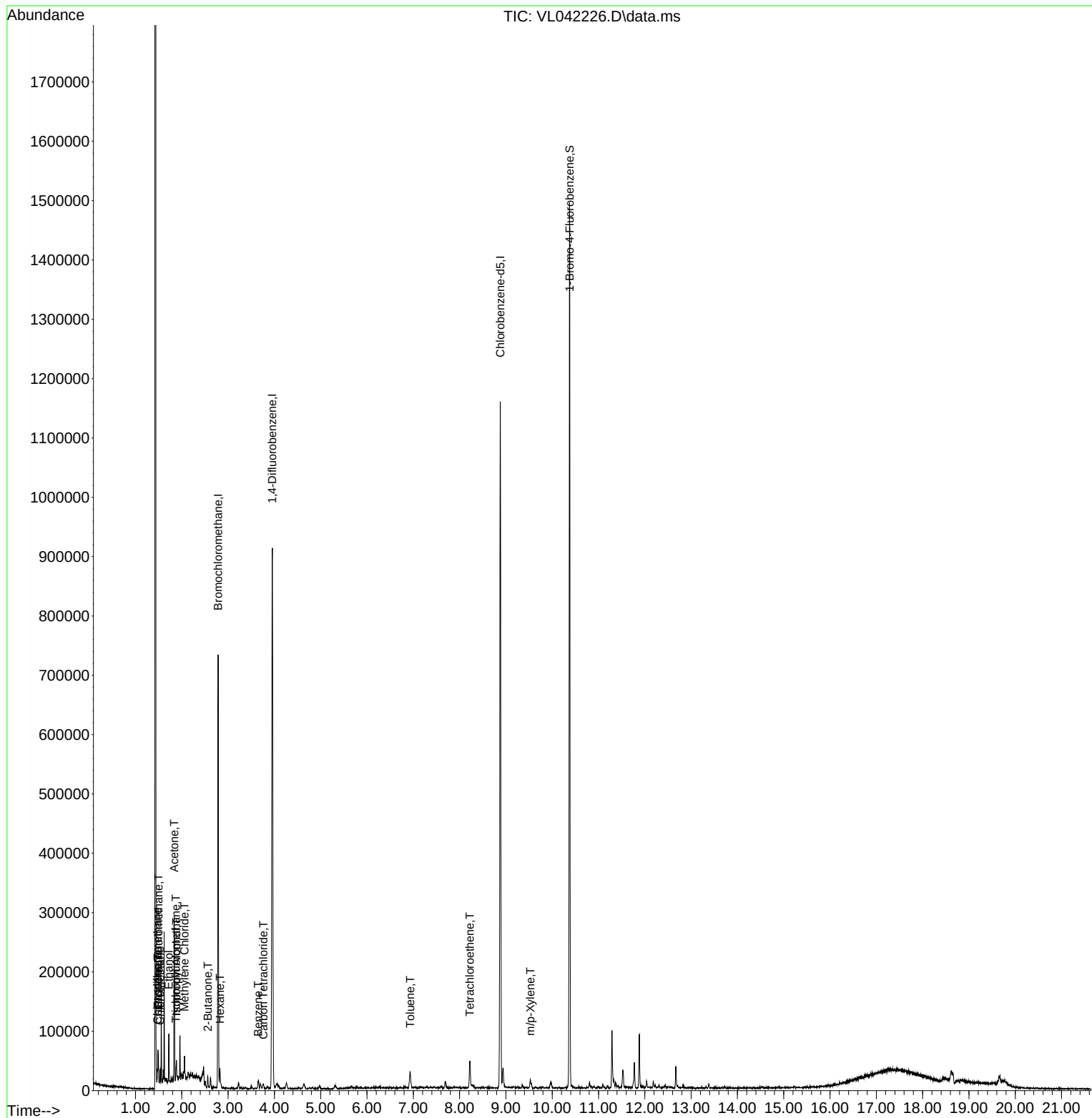
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
Data File : VL042226.D
Acq On : 04 Apr 2025 16:24
Operator : SY/MD
Sample : Q1691-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

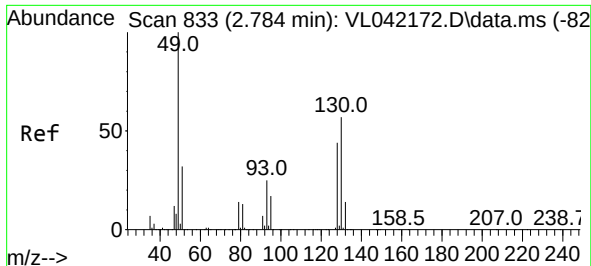
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Apr 05 02:05:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

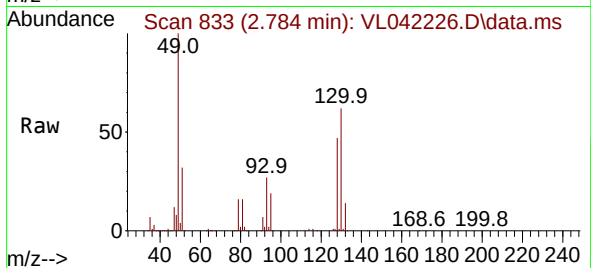
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 833
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

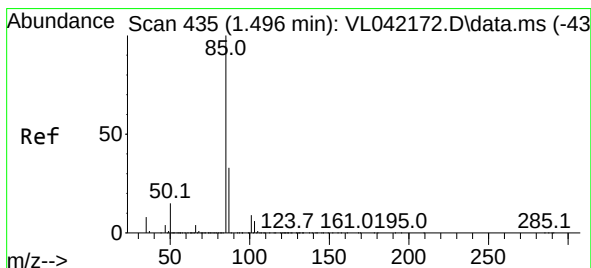
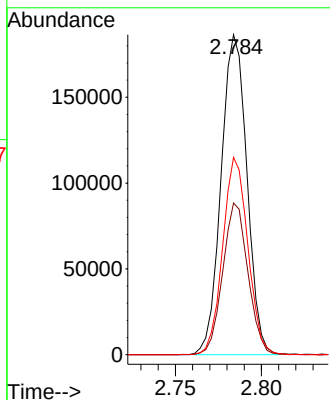
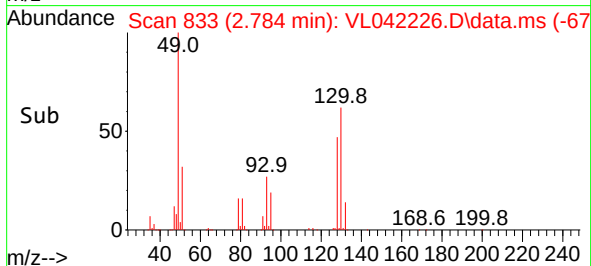
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 194580
Ion Ratio Lower Upper
49 100
128 46.4 22.9 68.5
130 60.1 28.8 86.4

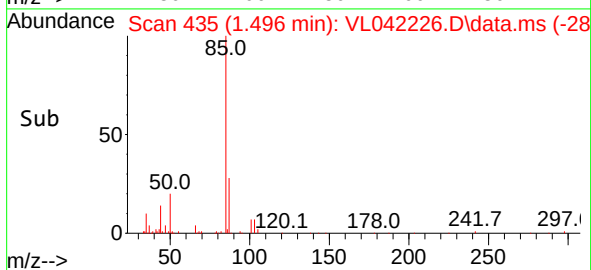
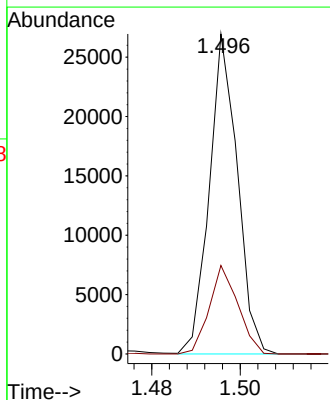
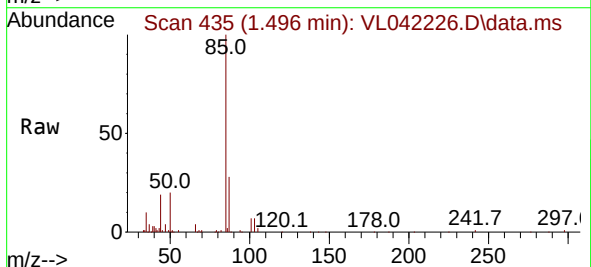
Manual Integrations
APPROVED

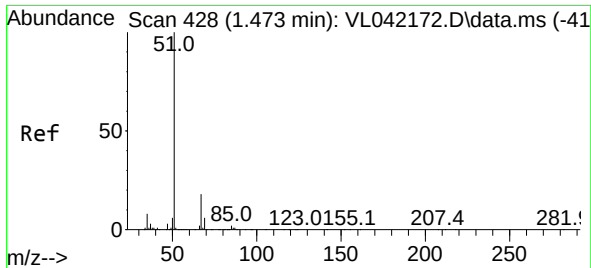
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#2
Dichlorodifluoromethane
Concen: 0.414 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

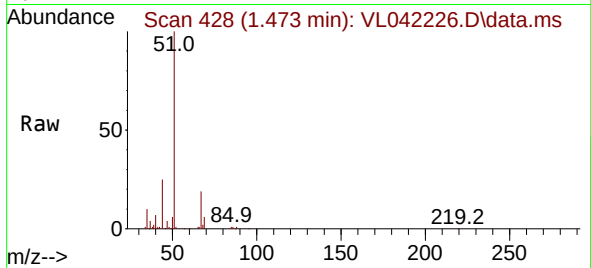
Tgt Ion: 85 Resp: 11891
Ion Ratio Lower Upper
85 100
87 27.7 26.1 39.1





#3
Chlorodifluoromethane
Concen: 0.286 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

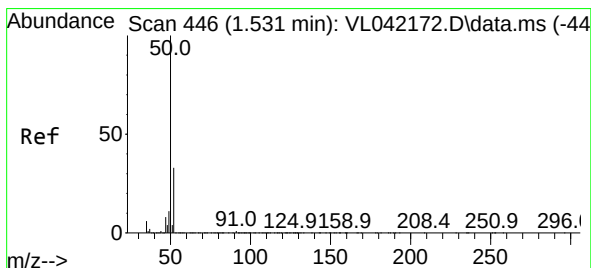
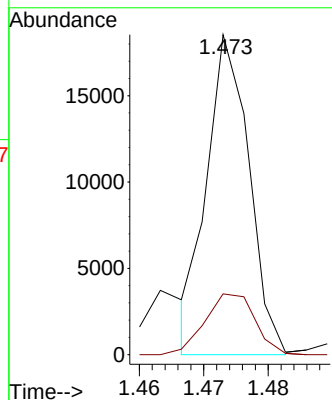
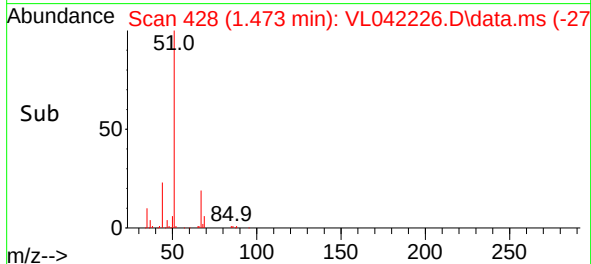
Instrument :
MSVOA_L
ClientSampleId :
OA1



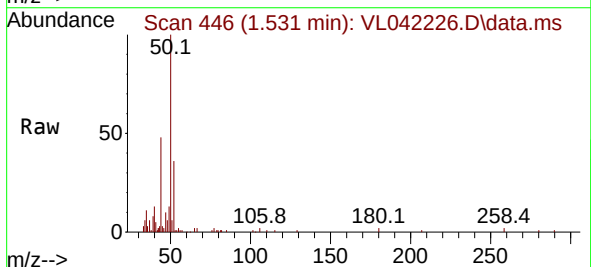
Tgt Ion: 51 Resp: 8400
Ion Ratio Lower Upper
51 100
67 26.1 15.0 22.6

Manual Integrations
APPROVED

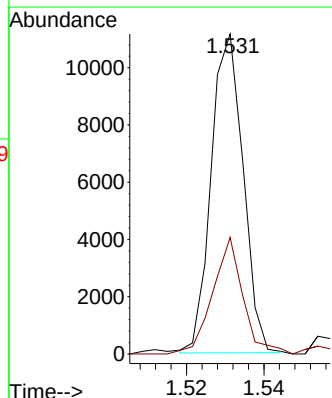
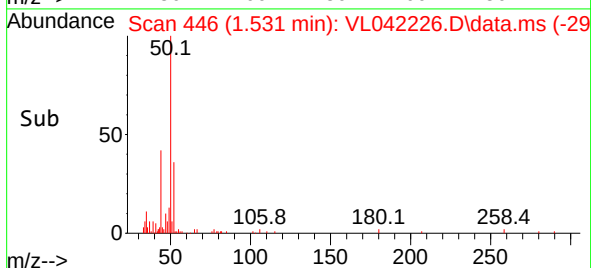
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

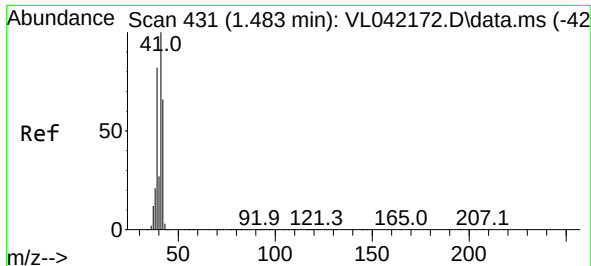


#4
Chloromethane
Concen: 0.544 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24



Tgt Ion: 50 Resp: 6382
Ion Ratio Lower Upper
50 100
52 35.7 26.1 39.1





#9

Propene

Concen: 0.430 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042226.D

Acq: 04 Apr 2025 16:24

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 41 Resp: 5780

Ion Ratio Lower Upper

41 100

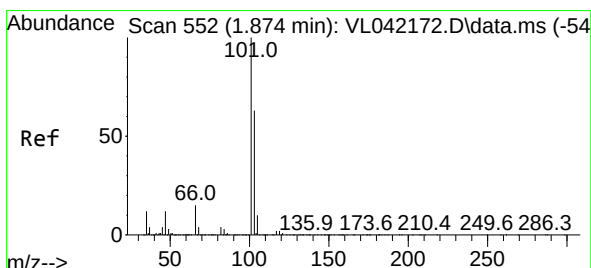
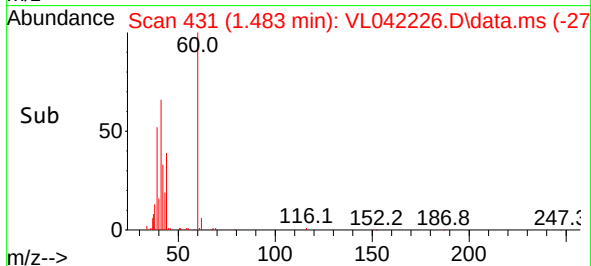
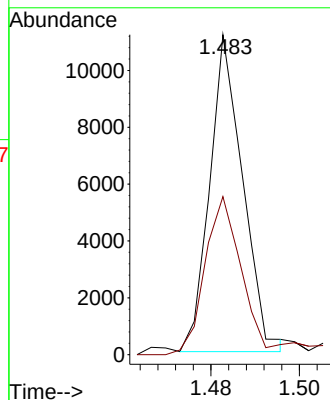
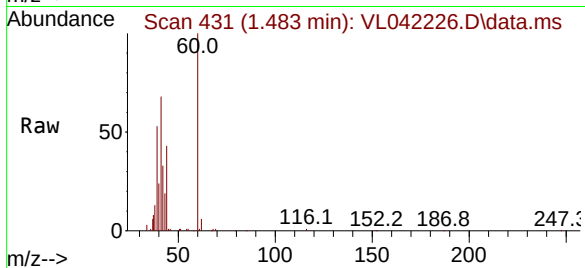
42 60.0 55.4 83.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025

Supervised By :Mahesh Dadoda 04/08/2025



#11

Trichlorofluoromethane

Concen: 0.205 ppbv

RT: 1.874 min Scan# 552

Delta R.T. -0.000 min

Lab File: VL042226.D

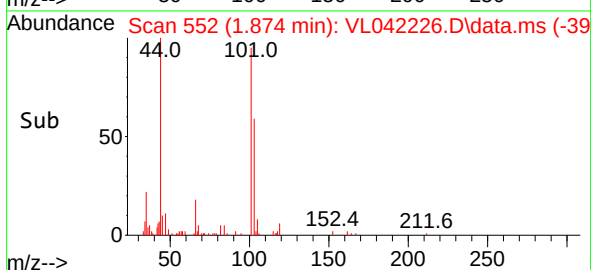
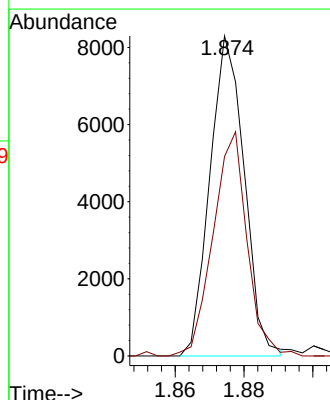
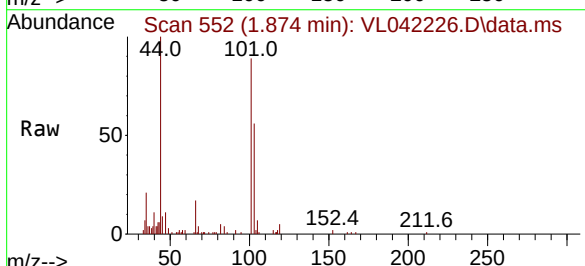
Acq: 04 Apr 2025 16:24

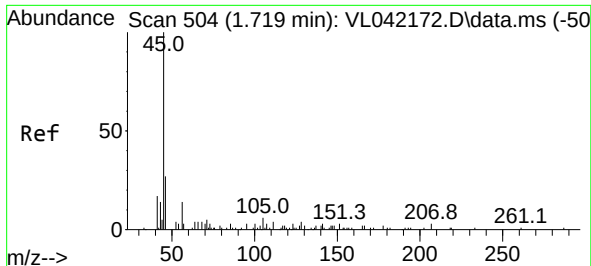
Tgt Ion:101 Resp: 5744

Ion Ratio Lower Upper

101 100

103 61.1 50.2 75.2





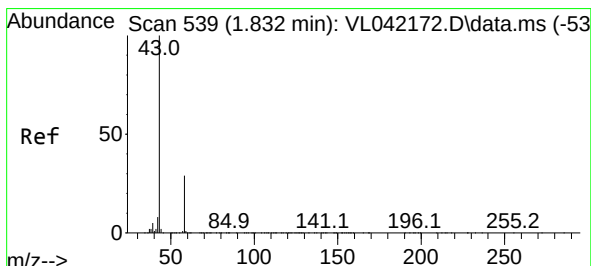
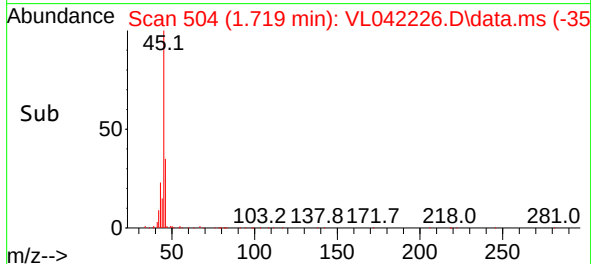
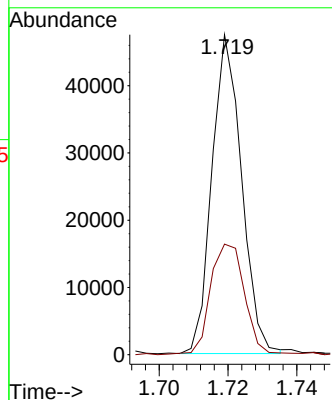
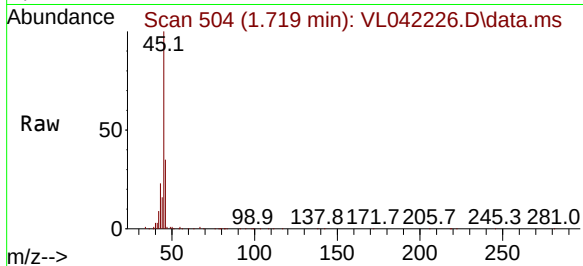
#13
Ethanol
Concen: 22.336 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 28404
Ion Ratio Lower Upper
45 100
46 41.4 20.2 80.8

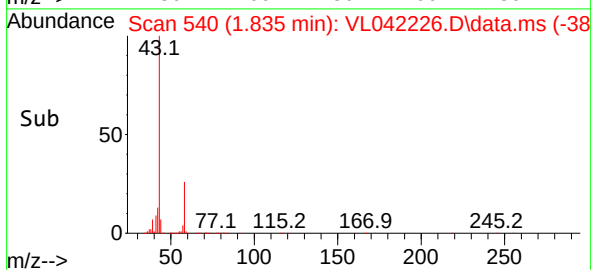
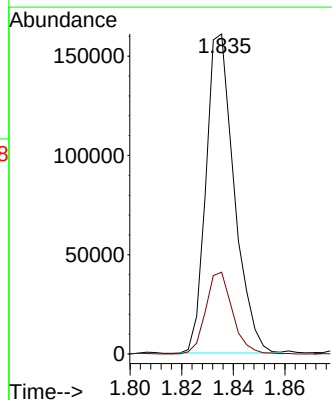
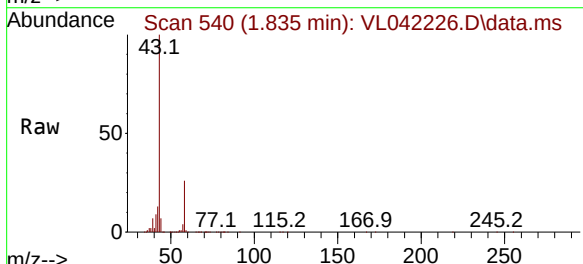
Manual Integrations
APPROVED

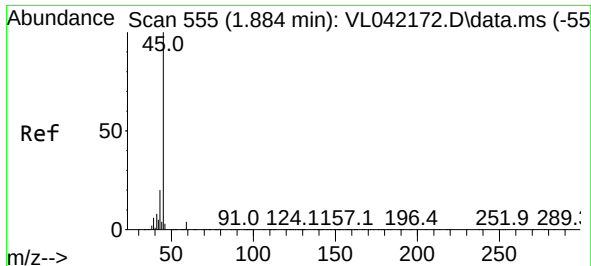
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#15
Acetone
Concen: 4.489 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

Tgt Ion: 43 Resp: 122167
Ion Ratio Lower Upper
43 100
58 24.4 23.2 34.8





#19

Isopropyl Alcohol

Concen: 0.893 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL042226.D

Acq: 04 Apr 2025 16:24

Instrument :

MSVOA_L

ClientSampleId :

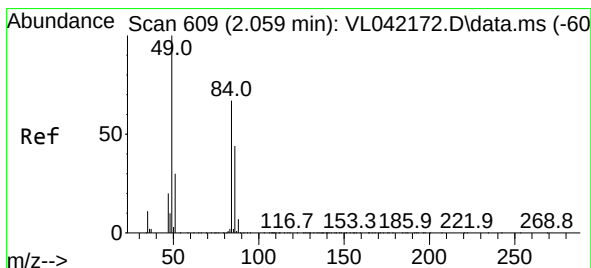
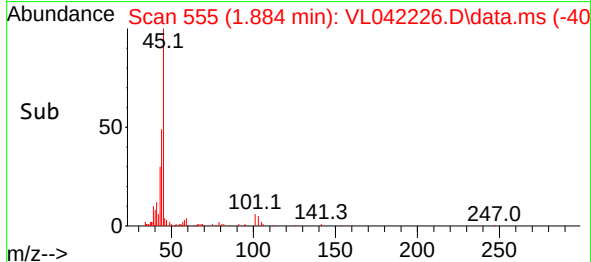
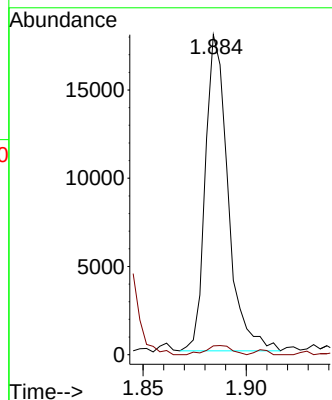
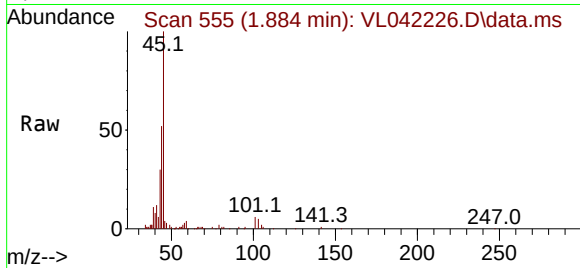
OA1

Tgt Ion: 45 Resp: 13718
 Ion Ratio Lower Upper
 45 100
 58 218.5 36.9 55.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025



#20

Methylene Chloride

Concen: 0.493 ppbv

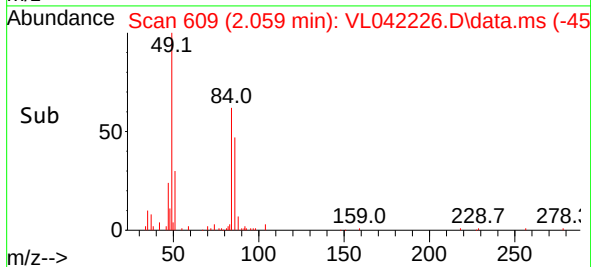
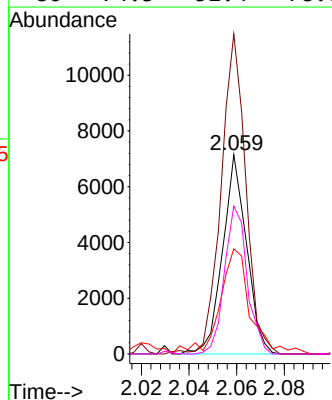
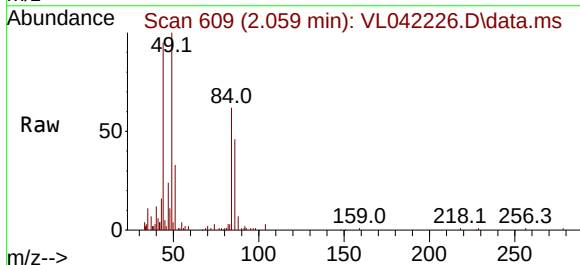
RT: 2.059 min Scan# 609

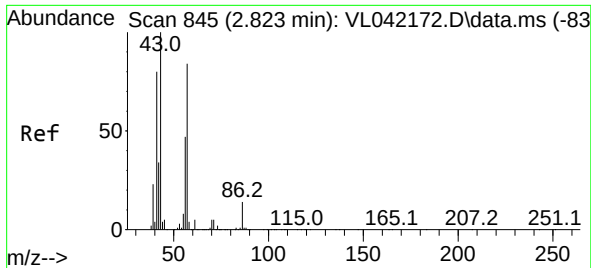
Delta R.T. -0.000 min

Lab File: VL042226.D

Acq: 04 Apr 2025 16:24

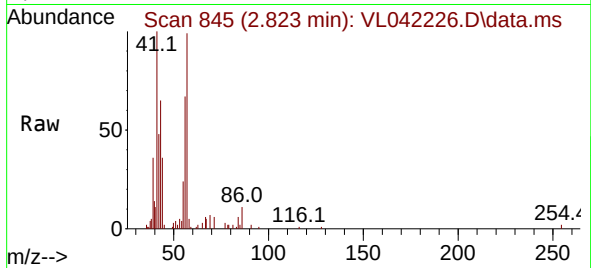
Tgt Ion: 84 Resp: 4996
 Ion Ratio Lower Upper
 84 100
 49 167.3 120.2 180.4
 51 48.9 37.4 56.0
 86 74.3 52.4 78.6





#26
Hexane
Concen: 0.229 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.000 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

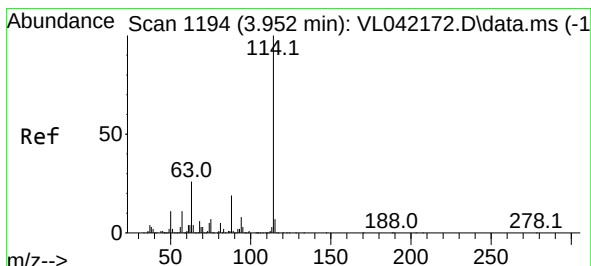
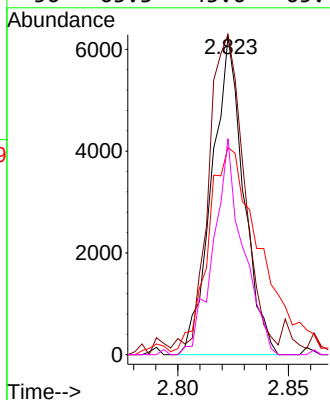
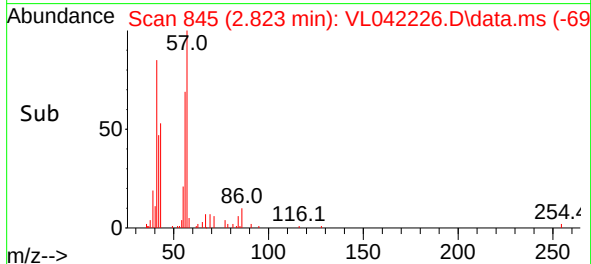
Instrument :
MSVOA_L
ClientSampleId :
OA1



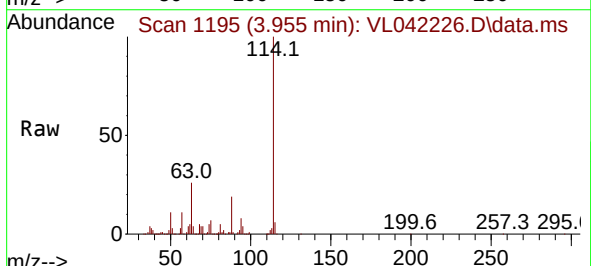
Tgt Ion: 57 Resp: 6248
Ion Ratio Lower Upper
57 100
41 118.3 76.6 114.8
43 112.5 207.8 311.8
56 63.3 43.6 65.4

Manual Integrations
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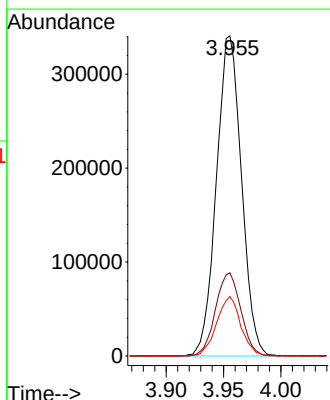
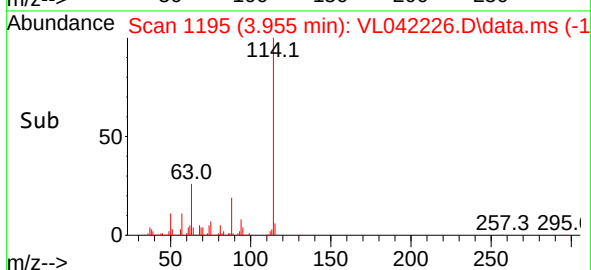
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

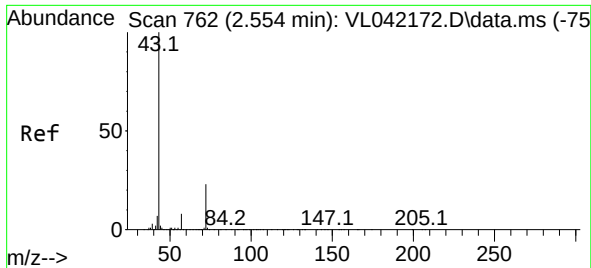


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. 0.003 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24



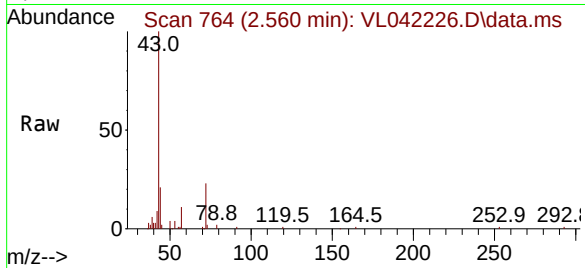
Tgt Ion:114 Resp: 518092
Ion Ratio Lower Upper
114 100
63 26.2 20.7 31.1
88 17.9 15.0 22.4





#34
2-Butanone
Concen: 0.336 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.006 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

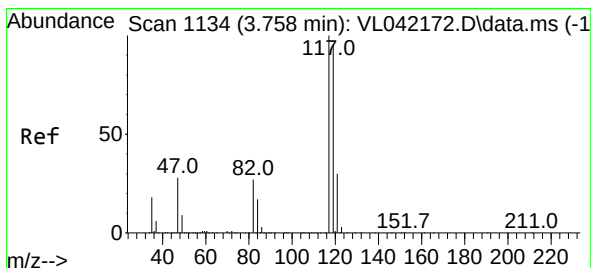
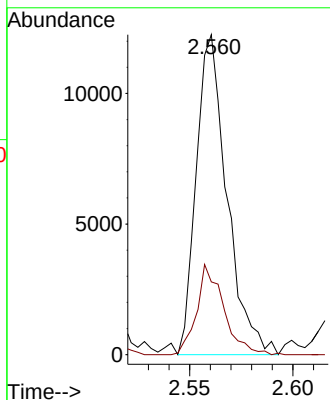
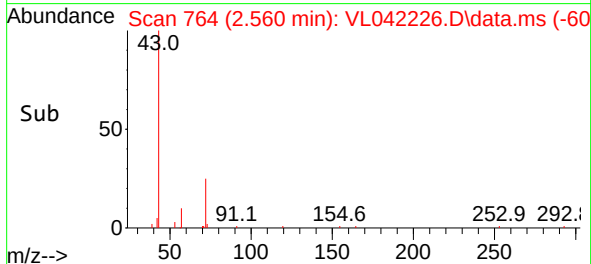
Instrument :
MSVOA_L
ClientSampleId :
OA1



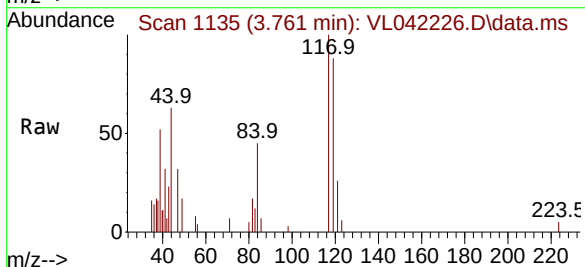
Tgt Ion: 43 Resp: 12639
Ion Ratio Lower Upper
43 100
72 24.9 18.2 27.2

Manual Integrations
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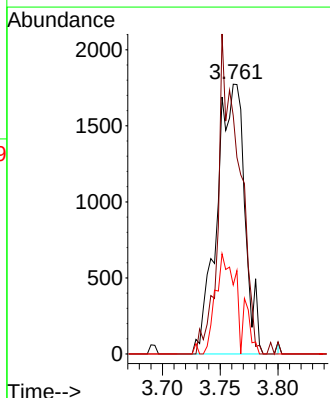
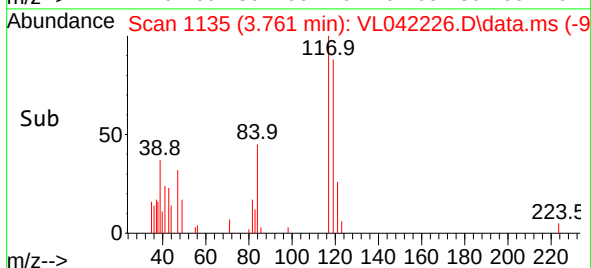
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025

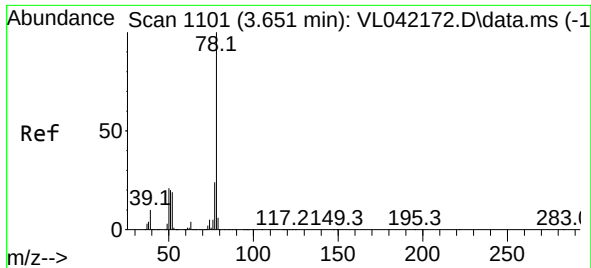


#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24



Tgt Ion:117 Resp: 2994
Ion Ratio Lower Upper
117 100
119 88.3 76.2 114.2
121 25.6 24.2 36.4





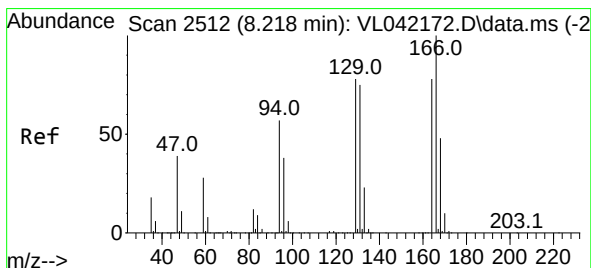
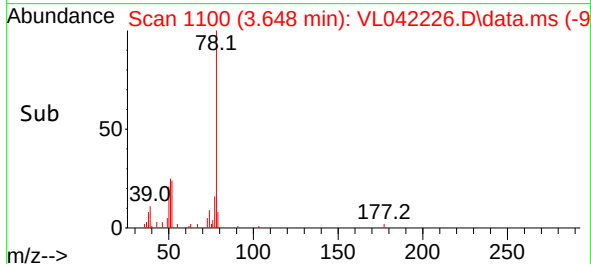
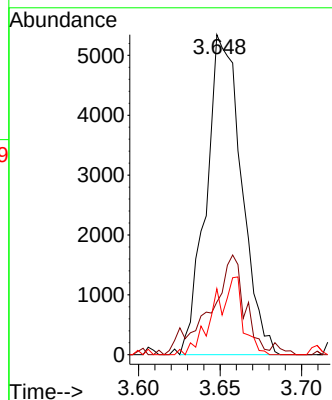
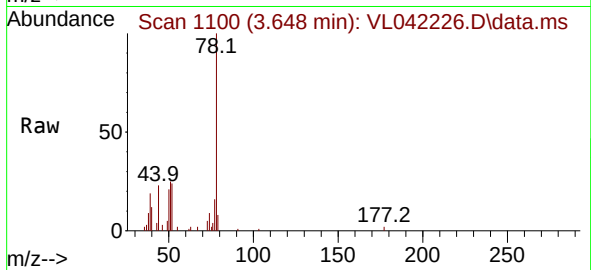
#36
Benzene
Concen: 0.157 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.003 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 78 Resp: 8042
Ion Ratio Lower Upper
78 100
77 14.6 19.1 28.7
50 20.6 16.6 24.8

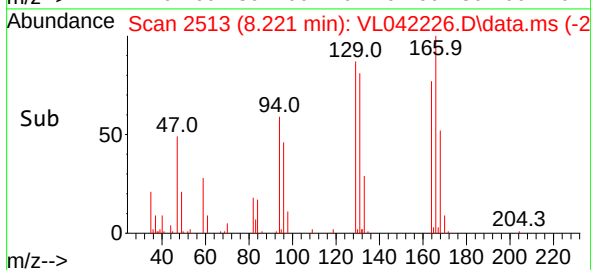
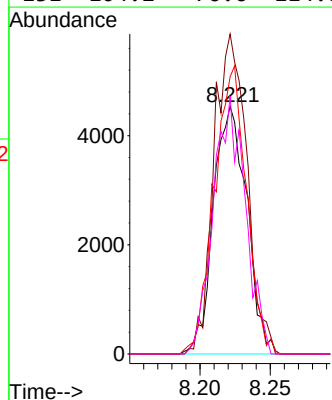
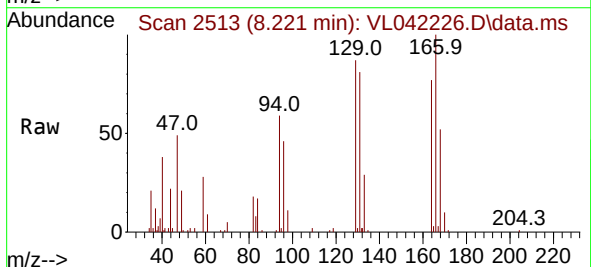
Manual Integrations
APPROVED

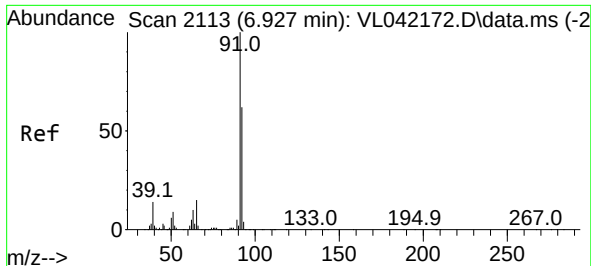
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#52
Tetrachloroethene
Concen: 0.368 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. 0.003 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

Tgt Ion:164 Resp: 7487
Ion Ratio Lower Upper
164 100
166 129.3 102.5 153.7
129 111.9 79.8 119.8
131 104.2 76.6 114.8





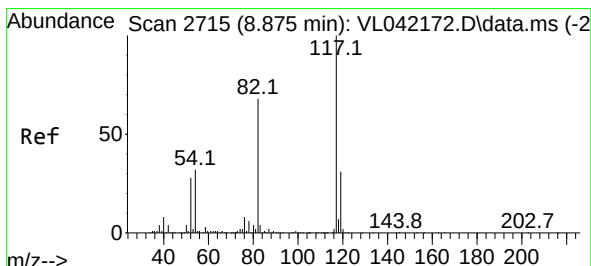
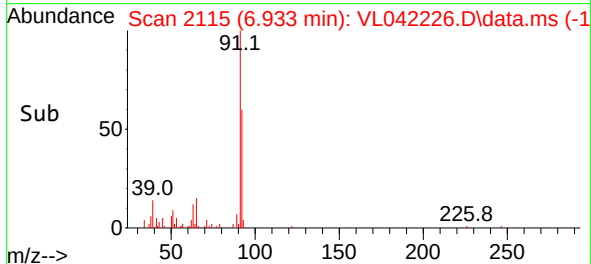
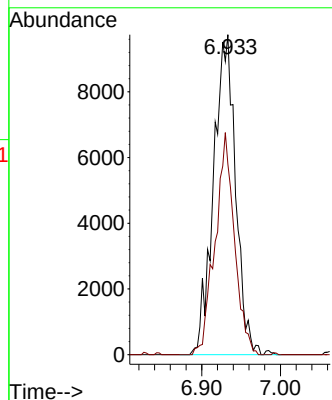
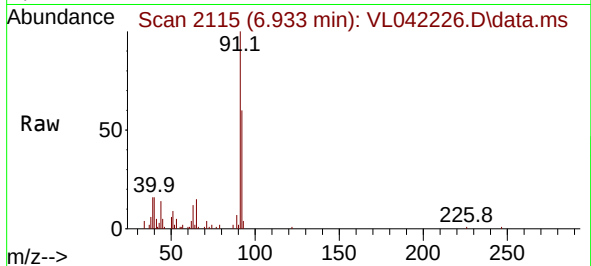
#53
Toluene
Concen: 0.312 ppbv m
RT: 6.933 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 1901
Ion Ratio Lower Upper
91 100
92 60.6 48.4 72.6

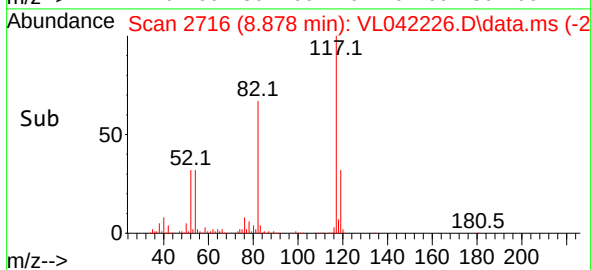
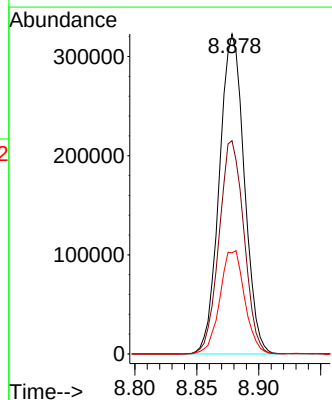
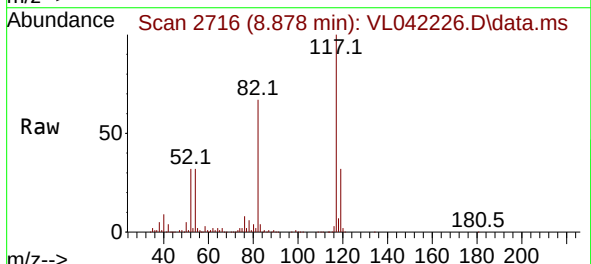
Manual Integrations
APPROVED

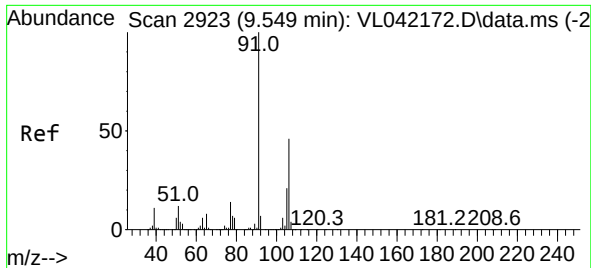
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

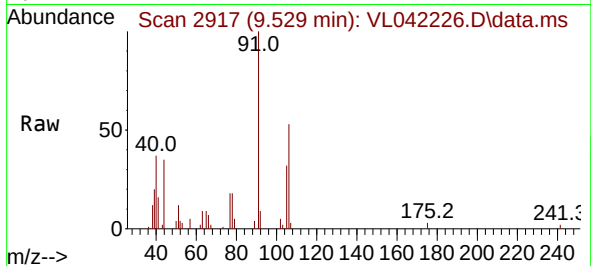
Tgt Ion:117 Resp: 453107
Ion Ratio Lower Upper
117 100
82 66.6 55.8 83.6
119 32.3 25.5 38.3





#59
m/p-Xylene
Concen: 0.123 ppbv m
RT: 9.529 min Scan# 2923
Delta R.T. -0.020 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24

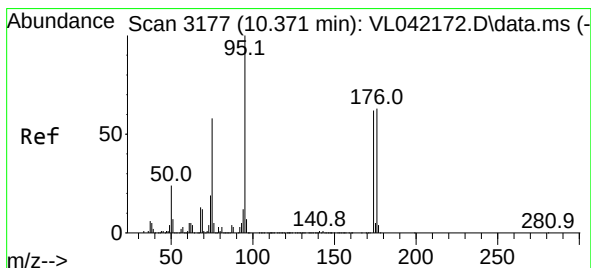
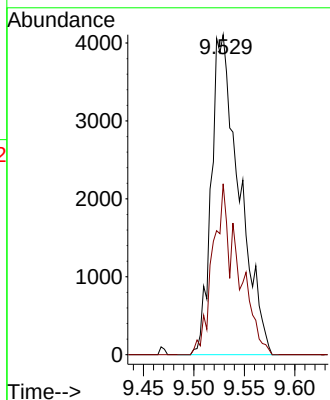
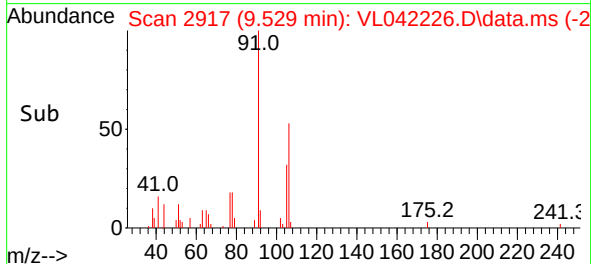
Instrument :
MSVOA_L
ClientSampleId :
OA1



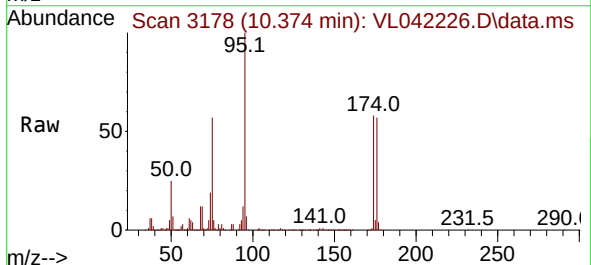
Tgt Ion: 91 Resp: 7889
Ion Ratio Lower Upper
91 100
106 0.0 36.4 54.6

Manual Integrations
APPROVED

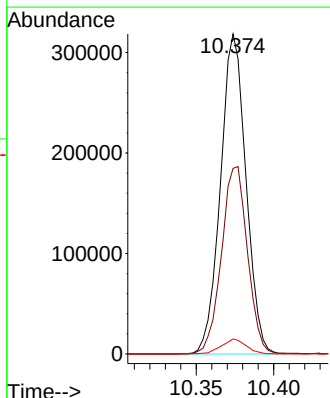
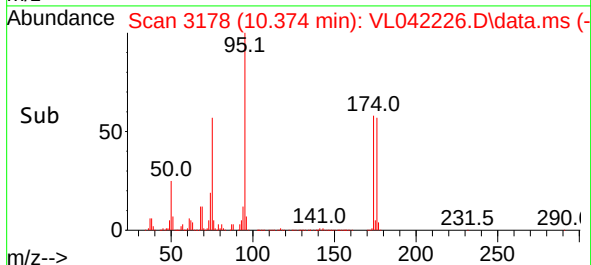
Reviewed By :Semsettin Yesilyurt 04/07/2025
Supervised By :Mahesh Dadoda 04/08/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.800 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.003 min
Lab File: VL042226.D
Acq: 04 Apr 2025 16:24



Tgt Ion: 95 Resp: 364662
Ion Ratio Lower Upper
95 100
174 59.7 50.6 76.0
175 4.6 3.8 5.6





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1691 SAS No.: Q1691 SDG No.: Q1691
 Instrument ID: MSVOA_L Calibration Date(s): 03/27/2025 03/27/2025
 Heated Purge: (Y/N) N Calibration Time(s): 08:26 11:36
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL042172.D		RRF002 = VL042173.D		RRF001 = VL042174.D		
		RRF0.5 = VL042175.D		RRF0.1 = VL042176.D		RRF.03 = VL042177.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Dichlorodifluoromethane	1.404	1.483	1.514	1.602			1.476	6
Chloromethane	0.573	0.618	0.597	0.660			0.603	6.2
Vinyl Chloride	0.549	0.584	0.576	0.635	0.705	0.882	0.639	18.8
Bromomethane	0.256	0.266	0.268	0.327			0.273	11.2
Chloroethane	0.227	0.223	0.248	0.286			0.242	10.9
Tetrahydrofuran	0.398	0.432	0.425	0.439			0.418	5
Trichlorofluoromethane	1.339	1.480	1.457	1.562			1.437	6.6
1,1,2-Trichlorotrifluoroethane	1.120	1.188	1.215	1.247			1.181	4.5
Dichlorotetrafluoroethane	1.214	1.274	1.283	1.306			1.257	3.4
tert-Butyl alcohol	1.618	1.756	1.799	1.935			1.742	7.9
Heptane	1.792	1.897	1.940	1.847			1.839	4.7
1,1-Dichloroethene	0.504	0.560	0.565	0.624			0.552	9
Acetone	1.113	1.469	1.573	1.699			1.399	18.7
Carbon Disulfide	1.436	1.539	1.512	1.608			1.503	5.1
Methyl tert-Butyl Ether	0.831	0.894	0.886	0.921			0.873	4.6
Methylene Chloride	0.438	0.545	0.563	0.624			0.521	15.9
trans-1,2-Dichloroethene	0.590	0.621	0.701	0.704			0.638	9.6
1,1-Dichloroethane	1.122	1.187	1.208	1.247			1.183	4.2
Cyclohexane	1.162	1.211	1.238	1.337			1.217	6.3
2-Butanone	0.667	0.770	0.771	0.754			0.725	7.6
Carbon Tetrachloride	0.703	0.748	0.732	0.709	0.782	1.069	0.781	16.6
cis-1,2-Dichloroethene	1.371	1.426	1.460	1.507			1.423	4.4
Chloroform	1.932	2.071	2.068	2.233			2.052	5.8
1,1,1-Trichloroethane	2.062	2.152	2.201	2.279	2.495	3.151	2.349	16.2
2,2,4-Trimethylpentane	1.608	1.723	1.689	1.781			1.675	5
Benzene	0.934	1.013	1.027	1.050			0.991	5.5
1,2-Dichloroethane	0.537	0.563	0.569	0.613			0.568	4.9
Trichloroethene	0.374	0.398	0.408	0.438	0.437	0.463	0.414	8
1,2-Dichloropropane	0.337	0.365	0.373	0.386			0.361	5.7
Bromodichloromethane	0.769	0.802	0.779	0.778			0.782	1.6

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1691 SAS No.: Q1691 SDG No.: Q1691

Instrument ID: MSVOA_L Calibration Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Calibration Time(s): 08:26 11:36

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

LAB FILE ID:		RRF010 = VL042172.D		RRF002 = VL042173.D		RRF001 = VL042174.D		
		RRF0.5 = VL042175.D		RRF0.1 = VL042176.D		RRF.03 = VL042177.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
4-Methyl-2-Pentanone	1.027	1.211	1.214	1.286			1.149	10.8
Toluene	1.125	1.202	1.203	1.239			1.175	4.8
t-1,3-Dichloropropene	0.439	0.453	0.447	0.474			0.450	3.2
cis-1,3-Dichloropropene	0.550	0.566	0.560	0.549			0.552	2.1
1,1,2-Trichloroethane	0.364	0.379	0.382	0.419			0.382	5.9
Dibromochloromethane	0.636	0.663	0.641	0.651			0.647	1.6
1,2-Dibromoethane	0.508	0.520	0.538	0.543	0.574		0.532	4.7
Tetrachloroethene	0.343	0.371	0.361	0.401	0.359	0.572	0.393	20.6
Chlorobenzene	0.875	0.994	0.979	1.024			0.949	7.5
Ethyl Benzene	1.671	1.894	1.822	1.850			1.776	6.3
m/p-Xylene	1.321	1.484	1.472	1.505			1.418	6.7
o-Xylene	1.328	1.499	1.475	1.521			1.422	7.5
Styrene	0.683	0.735	0.722	0.709			0.703	3.9
Bromoform	0.582	0.597	0.588	0.566			0.581	2.2
1,1,2,2-Tetrachloroethane	0.796	0.893	0.889	0.907	0.800	0.986	0.864	8.8
2-Chlorotoluene	1.538	1.759	1.728	1.717			1.650	7.1
1,3,5-Trimethylbenzene	1.387	1.677	1.671	1.616			1.546	9.7
1,2,4-Trimethylbenzene	1.510	1.966	1.958	1.994			1.781	14.7
1,3-Dichlorobenzene	0.882	1.063	1.022	1.036			0.977	9
1,4-Dichlorobenzene	0.888	1.040	1.017	1.030			0.972	8
1,2-Dichlorobenzene	0.850	1.014	1.031	1.012			0.951	9.8
1,2,4-Trichlorobenzene	0.859	1.028	0.941	0.821			0.899	9.5
Hexachloro-1,3-Butadiene	0.802	1.086	1.113	1.057			0.968	16.7
1,3-Butadiene	0.573	0.608	0.705	0.952			0.683	23.4
Naphthalene	1.806	2.314	2.181	1.979	1.637		1.948	13.3
4-Ethyltoluene	1.629	1.929	1.859	1.834			1.770	8.3
1-Bromo-4-Fluorobenzene	0.813	0.828	0.810	0.832	0.827	0.820	0.821	1
Hexane	1.333	1.383	1.462	1.507			1.402	5.7
Allyl Chloride	0.902	1.020	1.022	1.067			0.986	7.2
1,4-Dioxane	169.386	191.108	197.154	233.701			191.626	14.1

* 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.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1691 SAS No.: Q1691 SDG No.: Q1691
 Instrument ID: MSVOA_L Calibration Date(s): 03/27/2025 03/27/2025
 Heated Purge: (Y/N) N Calibration Time(s): 08:26 11:36
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:								
RRF010 = VL042172.D			RRF002 = VL042173.D			RRF001 = VL042174.D		
RRF0.5 = VL042175.D			RRF0.1 = VL042176.D			RRF.03 = VL042177.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Methyl Methacrylate	0.403	0.408	0.451	0.442			0.420	6

* 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 : VL032725AIR.M

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

Last Update : Fri Mar 28 02:00:52 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042177.D 0.1 =VL042176.D 0.5 =VL042175.D 1 =VL042174.D 2 =VL042173.D 10 =VL042172.D 15 =VL042178.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.602	1.514	1.482	1.404	1.380	1.476	6.03
3) Chlorodifluoro...			1.622	1.541	1.514	1.457	1.408	1.508	5.41
4) Chloromethane			0.660	0.597	0.618	0.573	0.570	0.603	6.17
5) T Vinyl Chloride	0.882	0.705	0.635	0.576	0.584	0.549	0.546	0.639	18.84
6) T Bromomethane			0.327	0.268	0.266	0.256	0.250	0.273	11.20
7) Chloroethane			0.286	0.248	0.223	0.227	0.226	0.242	10.92
8) T Dichlorotetra...			1.306	1.283	1.274	1.214	1.211	1.257	3.40
9) T Propene			0.734	0.736	0.698	0.660	0.630	0.691	6.69
10) T Heptane			1.847	1.940	1.897	1.792	1.719	1.839	4.73
11) T Trichlorofluor...			1.562	1.457	1.480	1.339	1.346	1.437	6.59
12) T 1,1,2-Trichlor...			1.247	1.215	1.188	1.120	1.135	1.181	4.52
13) Ethanol			0.110	0.086	0.073	0.029	0.028	0.065	55.48
14) T Bromoethene			0.529	0.447	0.460	0.417	0.409	0.452	10.47
15) T Acetone			1.699	1.573	1.469	1.113	1.139	1.399	18.73
16) T 1,3-Butadiene			0.952	0.705	0.608	0.573	0.577	0.683	23.38
17) tert-Butyl alc...			1.935	1.799	1.756	1.618	1.601	1.742	7.91
18) T 1,1-Dichloroet...			0.624	0.565	0.560	0.504	0.507	0.552	8.99
19) T Isopropyl Alcohol			1.016	0.800	0.738	0.702	0.689	0.789	16.99
20) T Methylene Chlo...			0.624	0.563	0.545	0.438	0.435	0.521	15.85
21) T Allyl Chloride			1.067	1.022	1.020	0.902	0.921	0.986	7.25
22) T trans-1,2-Dich...			0.704	0.701	0.621	0.590	0.575	0.638	9.56
23) T Vinyl Acetate			0.754	0.692	0.550	0.498	0.532	0.605	18.40
24) T 1,1-Dichloroet...			1.247	1.208	1.187	1.122	1.149	1.183	4.17
25) T Ethyl Acetate			4.017	3.619	3.703	3.457	3.353	3.630	7.06
26) T Hexane			1.507	1.462	1.383	1.333	1.325	1.402	5.71
27) T Carbon Disulfide			1.608	1.512	1.538	1.436	1.423	1.503	5.07
28) T Methyl tert-Bu...			0.921	0.886	0.894	0.831	0.832	0.873	4.56
29) T Chloroform			2.233	2.068	2.071	1.932	1.956	2.052	5.81
30) T Cyclohexane			1.337	1.238	1.211	1.162	1.140	1.217	6.33
31) T cis-1,2-Dichlo...			1.507	1.460	1.426	1.371	1.353	1.423	4.44
32) T 1,1,1-Trichlor...	3.151	2.495	2.279	2.201	2.152	2.062	2.105	2.349	16.23

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.754	0.771	0.770	0.667	0.664	0.725	7.58
35) T Carbon Tetrach...	1.069	0.782	0.709	0.732	0.748	0.703	0.725	0.781	16.60
36) T Benzene			1.049	1.027	1.013	0.934	0.934	0.991	5.47
37) T 1,2-Dichloroet...			0.613	0.569	0.563	0.537	0.556	0.568	4.95
38) T Trichloroethene	0.463	0.437	0.438	0.408	0.398	0.374	0.378	0.414	8.00
39) T 1,2-Dichloropr...			0.386	0.373	0.365	0.337	0.344	0.361	5.68

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL032725AIR.M											
40)	T	1,4-Dioxane			0.234	0.197	0.191	0.169	0.167	0.192	14.08
41)	T	Tetrahydrofuran			0.439	0.425	0.432	0.398	0.393	0.418	4.98
42)	T	Bromodichlorom...			0.778	0.779	0.802	0.769	0.785	0.782	1.58
43)		Methyl Methacr...			0.442	0.451	0.408	0.403	0.394	0.420	6.03
44)	T	2,2,4-Trimethy...			1.781	1.689	1.723	1.608	1.576	1.675	5.00
45)	T	t-1,3-Dichloro...			0.474	0.447	0.453	0.439	0.440	0.450	3.15
46)	T	cis-1,3-Dichlo...			0.549	0.560	0.566	0.550	0.535	0.552	2.12
47)	T	1,1,2-Trichlor...			0.419	0.382	0.379	0.364	0.365	0.382	5.88
48)	T	Dibromochlorom...			0.651	0.641	0.663	0.636	0.644	0.647	1.62
49)	T	Bromoform			0.566	0.588	0.597	0.582	0.570	0.581	2.18
50)	T	4-Methyl-2-Pen...			1.286	1.214	1.211	1.027	1.008	1.149	10.79
51)	T	2-Hexanone			0.999	1.018	1.031	0.844	0.827	0.944	10.56
52)	T	Tetrachloroethene	0.572	0.359	0.401	0.361	0.371	0.343	0.345	0.393	20.64
53)	T	Toluene			1.239	1.203	1.202	1.125	1.108	1.175	4.76
54)	T	1,2-Dibromoethane	0.574		0.543	0.538	0.520	0.508	0.510	0.532	4.74
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.576	0.575	0.576	0.510	0.515	0.550	6.30
57)	T	Chlorobenzene			1.024	0.979	0.994	0.875	0.871	0.949	7.46
58)	T	Ethyl Benzene			1.850	1.822	1.894	1.671	1.645	1.776	6.28
59)	T	m/p-Xylene			1.505	1.472	1.484	1.321	1.309	1.418	6.71
60)	T	o-Xylene			1.521	1.475	1.499	1.328	1.287	1.422	7.50
61)	T	Styrene			0.709	0.722	0.735	0.683	0.668	0.703	3.92
62)		Isopropylbenzene			2.290	2.199	2.261	1.962	1.920	2.126	8.14
63)	T	1,1,2,2-Tetrac...	0.986	0.800	0.907	0.889	0.893	0.796	0.777	0.864	8.78
64)		n-propylbenzene			0.578	0.581	0.576	0.499	0.502	0.547	7.81
65)		tert-Butylbenzene			2.190	2.071	2.144	1.736	1.691	1.966	11.96
66)	T	Benzyl Chloride			0.217	0.213	0.221	0.203	0.189	0.209	6.06
67)		sec-Butylbenzene			3.005	2.994	2.947	2.404	2.316	2.733	12.54
68)	S	1-Bromo-4-Fluo...	0.820	0.827	0.832	0.810	0.828	0.813	0.820	0.821	0.98
69)		p-Isopropyltol...			2.554	2.551	2.560	2.078	2.025	2.354	11.74
70)		n-Butylbenzene			2.536	2.598	2.682	2.137	2.082	2.407	11.51
71)		2-Chlorotoluene			1.717	1.728	1.759	1.538	1.510	1.650	7.07
72)	T	4-Ethyltoluene			1.834	1.859	1.929	1.629	1.601	1.770	8.26
73)	T	1,3,5-Trimethy...			1.616	1.671	1.677	1.387	1.381	1.546	9.71
74)	T	1,2,4-Trimethy...			1.994	1.958	1.966	1.510	1.478	1.781	14.74
75)	T	1,3-Dichlorobe...			1.036	1.022	1.063	0.882	0.882	0.977	8.99
76)	T	1,4-Dichlorobe...			1.030	1.017	1.040	0.888	0.886	0.972	8.05
77)	T	1,2-Dichlorobe...			1.012	1.031	1.014	0.850	0.850	0.951	9.78
78)	T	Hexachloro-1,3...			1.057	1.113	1.086	0.802	0.784	0.968	16.65
79)	T	Naphthalene	1.637		1.979	2.181	2.314	1.806	1.773	1.948	13.31
80)	T	Naphthalene,2-...			0.721	0.891	1.163	0.990	1.013	0.955	17.09
81)	T	1,2,4-Trichlor...			0.821	0.941	1.028	0.859	0.843	0.899	9.51

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:31:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	187002	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	545068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	519536	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.371	95	422410	9.901	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	262496	9.507	ppbv	100
3) Chlorodifluoromethane	1.473	51	272522	9.662	ppbv	100
4) Chloromethane	1.531	50	107099	9.491	ppbv	100
5) Vinyl Chloride	1.577	62	102699	8.925	ppbv	100
6) Bromomethane	1.664	94	47950	9.377	ppbv	100
7) Chloroethane	1.703	64	42516	9.387	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	227041	9.656	ppbv	100
9) Propene	1.483	41	123386	9.709	ppbv	100
10) Heptane	4.972	43	335086	9.744	ppbv	100
11) Trichlorofluoromethane	1.874	101	250349	9.318	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	209365	9.481	ppbv	100
13) Ethanol	1.719	45	5338	5.364	ppbv	100
14) Bromoethene	1.777	108	77999	9.220	ppbv	100
15) Acetone	1.832	43	208061	7.955	ppbv	100
16) 1,3-Butadiene	1.606	39	107104	9.105	ppbv	100
17) tert-Butyl alcohol	2.036	59	302616	9.290	ppbv	100
18) 1,1-Dichloroethene	2.030	96	94236	9.128	ppbv	100
19) Isopropyl Alcohol	1.884	45	131359	8.902	ppbv	100
20) Methylene Chloride	2.059	84	81828	8.401	ppbv	100
21) Allyl Chloride	2.091	41	168602	9.141	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	110371	9.149	ppbv	100
23) Vinyl Acetate	2.460	43	93080	8.563	ppbv	100
24) 1,1-Dichloroethane	2.405	63	209753	9.484	ppbv	100
25) Ethyl Acetate	2.833	43	646501	9.524	ppbv	100
26) Hexane	2.823	57	249331	9.510	ppbv	100
27) Carbon Disulfide	2.146	76	268507	9.550	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	155398	9.520	ppbv	100
29) Chloroform	2.845	83	361264	9.415	ppbv	100
30) Cyclohexane	3.852	84	217215	9.537	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	256425	9.634	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	385628	8.784	ppbv	100
34) 2-Butanone	2.554	43	363735	9.203	ppbv	100
35) Carbon Tetrachloride	3.758	117	382925	9.129	ppbv	100
36) Benzene	3.651	78	508860	9.417	ppbv	100
37) 1,2-Dichloroethane	3.214	62	292937	9.469	ppbv	100
38) Trichloroethene	4.545	130	204027	9.045	ppbv	100
39) 1,2-Dichloropropane	4.312	63	183439	9.321	ppbv	100
40) 1,4-Dioxane	4.577	88	92327	9.042	ppbv #	100
41) Tetrahydrofuran	3.049	42	216851	9.643	ppbv	100
42) Bromodichloromethane	4.483	83	418887	9.822	ppbv	100
43) Methyl Methacrylate	4.872	69	219399	9.618	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	876649	9.600	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	239180	9.746	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 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 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:31:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	300021	9.973	ppbv	100
47) 1,1,2-Trichloroethane	6.574	97	198176	9.526	ppbv	100
48) Dibromochloromethane	7.380	129	346499	9.828	ppbv	100
49) Bromoform	9.477	173	317189	10.021	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	559800	8.934	ppbv	100
51) 2-Hexanone	7.432	43	460013	8.848	ppbv #	100
52) Tetrachloroethene	8.218	164	186912	8.722	ppbv	100
53) Toluene	6.927	91	613378	9.576	ppbv	100
54) 1,2-Dibromoethane	7.649	107	276797	9.536	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.917	131	265037	9.268	ppbv	100
57) Chlorobenzene	8.917	112	454511	9.223	ppbv	100
58) Ethyl Benzene	9.351	91	868003	9.406	ppbv	100
59) m/p-Xylene	9.549	91	1372806m	18.607	ppbv	
60) o-Xylene	9.960	91	689933	9.340	ppbv	100
61) Styrene	9.866	104	354697	9.706	ppbv	100
62) Isopropylbenzene	10.536	105	1019255	9.227	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.960	83	413392	9.210	ppbv	100
64) n-propylbenzene	10.986	120	259405	9.122	ppbv	100
65) tert-Butylbenzene	11.529	119	901951	8.828	ppbv	100
66) Benzyl Chloride	11.610	91	105411	9.724	ppbv	100
67) sec-Butylbenzene	11.766	105	1249106	8.796	ppbv	100
69) p-Isopropyltoluene	11.924	119	1079675	8.830	ppbv	100
70) n-Butylbenzene	12.277	91	1110351	8.879	ppbv	100
71) 2-Chlorotoluene	10.898	91	799102	9.320	ppbv	100
72) 4-Ethyltoluene	11.122	105	846232	9.200	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	720566	8.970	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	784745	8.480	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	458226	9.028	ppbv	100
76) 1,4-Dichlorobenzene	11.669	146	461371	9.134	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	441473	8.933	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	416735	8.284	ppbv	100
79) Naphthalene	13.510	128	938470	9.271	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	514394	10.436	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	446420	9.561	ppbv	100

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

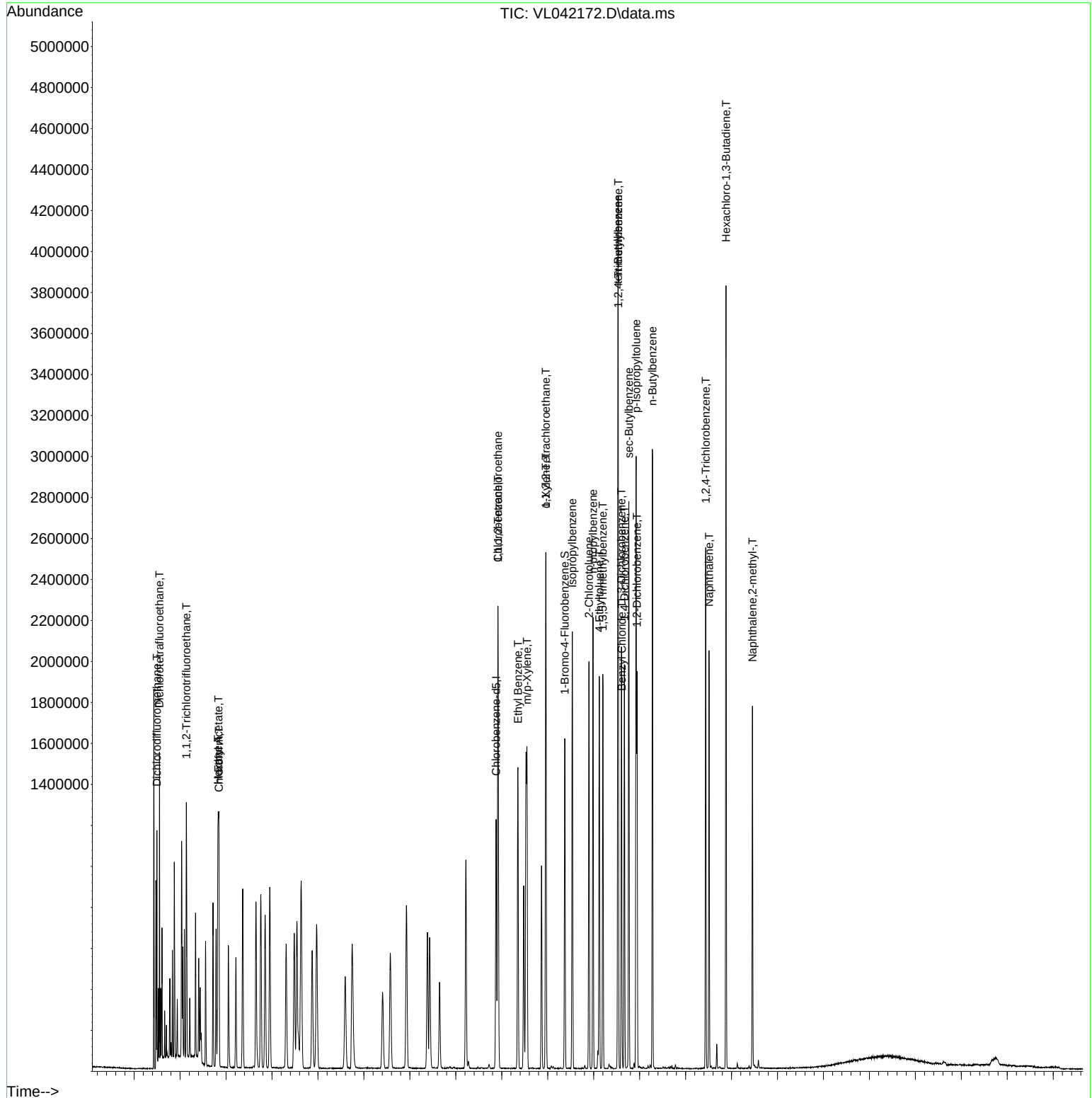
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	188395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	546394	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	504538	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 417532 10.077 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	55859	2.008	ppbv	99
3) Chlorodifluoromethane	1.473	51	57045	2.007	ppbv	99
4) Chloromethane	1.531	50	23293	2.049	ppbv	94
5) Vinyl Chloride	1.576	62	21989	1.897	ppbv	99
6) Bromomethane	1.664	94	10027	1.946	ppbv	98
7) Chloroethane	1.703	64	8413	1.844	ppbv	92
8) Dichlorotetrafluoroethane	1.551	85	48008	2.027	ppbv	98
9) Propene	1.483	41	26295	2.054	ppbv	94
10) Heptane	4.972	43	71466	2.063	ppbv	99
11) Trichlorofluoromethane	1.874	101	55754	2.060	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	44761	2.012	ppbv	98
13) Ethanol	1.719	45	2748m	2.741	ppbv	
14) Bromoethene	1.780	108	17323	2.033	ppbv #	89
15) Acetone	1.832	43	55365	2.101	ppbv	95
16) 1,3-Butadiene	1.606	39	22894	1.932	ppbv	95
17) tert-Butyl alcohol	2.039	59	66174	2.016	ppbv	100
18) 1,1-Dichloroethene	2.030	96	21103	2.029	ppbv	95
19) Isopropyl Alcohol	1.884	45	27804	1.870	ppbv #	35
20) Methylene Chloride	2.059	84	20518	2.091	ppbv	96
21) Allyl Chloride	2.094	41	38425	2.068	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	23384	1.924	ppbv	92
23) Vinyl Acetate	2.460	43	20736	1.894	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	44740	2.008	ppbv	99
25) Ethyl Acetate	2.832	43	139516	2.040	ppbv	99
26) Hexane	2.823	57	52095	1.972	ppbv	92
27) Carbon Disulfide	2.146	76	57969	2.047	ppbv #	76
28) Methyl tert-Butyl Ether	2.437	73	33703	2.049	ppbv	99
29) Chloroform	2.845	83	78043	2.019	ppbv	95
30) Cyclohexane	3.852	84	45641	1.989	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	53713	2.003	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	81070	1.833	ppbv	99
34) 2-Butanone	2.554	43	84157	2.124	ppbv	99
35) Carbon Tetrachloride	3.758	117	81735	1.944	ppbv	96
36) Benzene	3.651	78	110727	2.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	61476	1.982	ppbv	97
38) Trichloroethene	4.541	130	43501	1.924	ppbv	97
39) 1,2-Dichloropropane	4.308	63	39912	2.023	ppbv	93
40) 1,4-Dioxane	4.587	88	20884m	2.040	ppbv	
41) Tetrahydrofuran	3.056	42	47262	2.097	ppbv	99
42) Bromodichloromethane	4.483	83	87640	2.050	ppbv	99
43) Methyl Methacrylate	4.878	69	44624	1.952	ppbv	97
44) 2,2,4-Trimethylpentane	4.632	57	188282	2.057	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	49461	2.011	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 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 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv	#	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv		95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv		100
49) Bromoform	9.477	173	65221	2.056	ppbv		98
50) 4-Methyl-2-Pentanone	5.752	43	132328	2.107	ppbv		99
51) 2-Hexanone	7.435	43	112681	2.162	ppbv	#	99
52) Tetrachloroethene	8.221	164	40558	1.888	ppbv		98
53) Toluene	6.923	91	131314	2.045	ppbv		99
54) 1,2-Dibromoethane	7.648	107	56799	1.952	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.920	131	58141	2.093	ppbv		97
57) Chlorobenzene	8.914	112	100308	2.096	ppbv	#	94
58) Ethyl Benzene	9.351	91	191114	2.132	ppbv		96
59) m/p-Xylene	9.548	91	299531m	4.181	ppbv		
60) o-Xylene	9.959	91	151292	2.109	ppbv		98
61) Styrene	9.865	104	74134	2.089	ppbv		98
62) Isopropylbenzene	10.535	105	228191	2.127	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	90114	2.067	ppbv		99
64) n-propylbenzene	10.985	120	58105	2.104	ppbv		92
65) tert-Butylbenzene	11.529	119	216336	2.180	ppbv		99
66) Benzyl Chloride	11.610	91	22272	2.116	ppbv		95
67) sec-Butylbenzene	11.762	105	297381	2.156	ppbv		99
69) p-Isopropyltoluene	11.921	119	258357	2.176	ppbv		100
70) n-Butylbenzene	12.277	91	270616	2.228	ppbv		99
71) 2-Chlorotoluene	10.898	91	177487	2.132	ppbv		100
72) 4-Ethyltoluene	11.121	105	194660	2.179	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	169221	2.169	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	198351	2.207	ppbv		96
75) 1,3-Dichlorobenzene	11.604	146	107217	2.175	ppbv		97
76) 1,4-Dichlorobenzene	11.668	146	104925	2.139	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	102310	2.132	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	109539	2.242	ppbv		99
79) Naphthalene	13.510	128	233451	2.375	ppbv		97
80) Naphthalene,2-methyl-	14.455	142	117313	2.451	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	103765	2.288	ppbv		97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	186244	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	537244	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	499830	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	404753	9.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	28203	1.026	ppbv	99
3) Chlorodifluoromethane	1.473	51	28693	1.021	ppbv	94
4) Chloromethane	1.531	50	11111	0.989	ppbv	99
5) Vinyl Chloride	1.577	62	10723	0.936	ppbv	98
6) Bromomethane	1.667	94	4984	0.979	ppbv	97
7) Chloroethane	1.703	64	4622	1.025	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	23886	1.020	ppbv	98
9) Propene	1.483	41	13699m	1.082	ppbv	
10) Heptane	4.975	43	36132	1.055	ppbv	100
11) Trichlorofluoromethane	1.875	101	27136	1.014	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	22629	1.029	ppbv	99
13) Ethanol	1.719	45	1610m	1.624	ppbv	
14) Bromoethene	1.781	108	8330	0.989	ppbv #	82
15) Acetone	1.836	43	29294	1.125	ppbv	95
16) 1,3-Butadiene	1.606	39	13133	1.121	ppbv	97
17) tert-Butyl alcohol	2.040	59	33500	1.033	ppbv	97
18) 1,1-Dichloroethene	2.033	96	10532	1.024	ppbv	89
19) Isopropyl Alcohol	1.884	45	14903	1.014	ppbv #	38
20) Methylene Chloride	2.059	84	10481	1.080	ppbv	93
21) Allyl Chloride	2.095	41	19039	1.036	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	13051m	1.086	ppbv	
23) Vinyl Acetate	2.464	43	12883m	1.190	ppbv	
24) 1,1-Dichloroethane	2.409	63	22505	1.022	ppbv	99
25) Ethyl Acetate	2.836	43	67402	0.997	ppbv #	96
26) Hexane	2.823	57	27223	1.043	ppbv	98
27) Carbon Disulfide	2.146	76	28167	1.006	ppbv #	47
28) Methyl tert-Butyl Ether	2.441	73	16501	1.015	ppbv	95
29) Chloroform	2.845	83	38516	1.008	ppbv	96
30) Cyclohexane	3.852	84	23052	1.016	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	27187	1.026	ppbv	89
32) 1,1,1-Trichloroethane	3.363	97	40993	0.938	ppbv	99
34) 2-Butanone	2.557	43	41423	1.063	ppbv	98
35) Carbon Tetrachloride	3.758	117	39345	0.952	ppbv	93
36) Benzene	3.651	78	55156	1.036	ppbv	94
37) 1,2-Dichloroethane	3.218	62	30543	1.002	ppbv	98
38) Trichloroethene	4.545	130	21906	0.985	ppbv	93
39) 1,2-Dichloropropane	4.312	63	20020	1.032	ppbv	99
40) 1,4-Dioxane	4.593	88	10592m	1.052	ppbv	
41) Tetrahydrofuran	3.056	42	22818	1.029	ppbv	97
42) Bromodichloromethane	4.483	83	41864	0.996	ppbv	90
43) Methyl Methacrylate	4.875	69	24233m	1.078	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	90727	1.008	ppbv	96
45) t-1,3-Dichloropropene	6.403	75	23993m	0.992	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	30063	1.014	ppbv	93
47) 1,1,2-Trichloroethane	6.577	97	20546	1.002	ppbv	96
48) Dibromochloromethane	7.383	129	34425	0.991	ppbv	100
49) Bromoform	9.481	173	31610	1.013	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	65226m	1.056	ppbv	
51) 2-Hexanone	7.438	43	54680	1.067	ppbv #	100
52) Tetrachloroethene	8.222	164	19415	0.919	ppbv	95
53) Toluene	6.927	91	64612	1.023	ppbv	99
54) 1,2-Dibromoethane	7.652	107	28879	1.009	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.924	131	28764	1.045	ppbv #	87
57) Chlorobenzene	8.917	112	48930	1.032	ppbv	93
58) Ethyl Benzene	9.348	91	91086	1.026	ppbv	97
59) m/p-Xylene	9.529	91	147162m	2.073	ppbv	
60) o-Xylene	9.960	91	73702	1.037	ppbv	96
61) Styrene	9.866	104	36110	1.027	ppbv	97
62) Isopropylbenzene	10.536	105	109897	1.034	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	44431	1.029	ppbv	99
64) n-propylbenzene	10.986	120	29054	1.062	ppbv	98
65) tert-Butylbenzene	11.526	119	103520	1.053	ppbv	96
66) Benzyl Chloride	11.614	91	10660	1.022	ppbv #	93
67) sec-Butylbenzene	11.762	105	149660	1.095	ppbv	97
69) p-Isopropyltoluene	11.921	119	127509	1.084	ppbv	99
70) n-Butylbenzene	12.280	91	129860	1.079	ppbv	99
71) 2-Chlorotoluene	10.898	91	86356	1.047	ppbv	100
72) 4-Ethyltoluene	11.122	105	92912	1.050	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	83497	1.080	ppbv	92
74) 1,2,4-Trimethylbenzene	11.533	105	97858	1.099	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	51096	1.046	ppbv	99
76) 1,4-Dichlorobenzene	11.669	146	50841	1.046	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	51523	1.084	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	55611	1.149	ppbv	97
79) Naphthalene	13.510	128	109031	1.120	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	44518	0.939	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	47040	1.047	ppbv	98

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

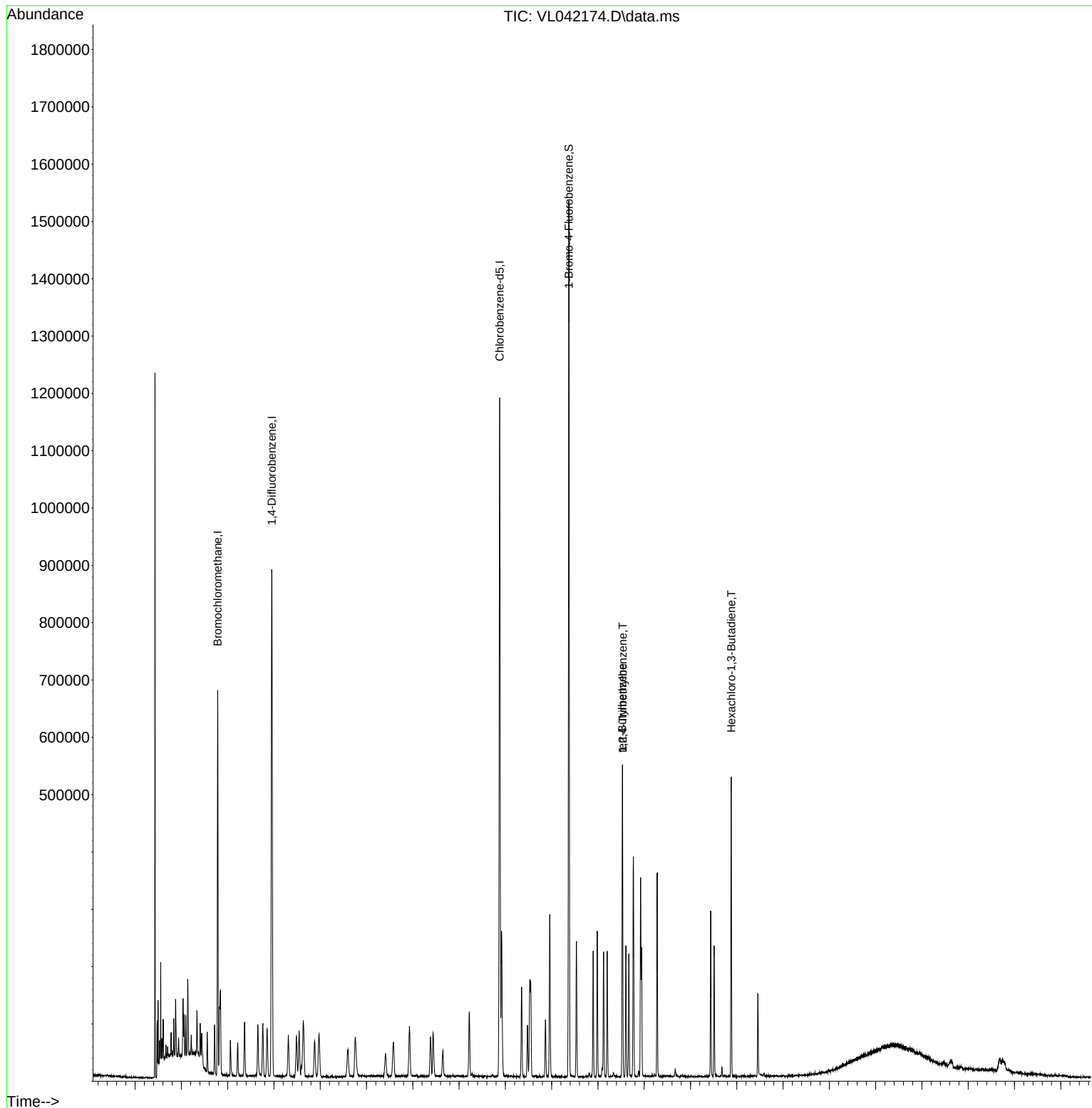
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	180502	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	523832	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	485078	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 403513 10.130 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.496	85	14455	0.542	ppbv	95
3) Chlorodifluoromethane	1.473	51	14637	0.538	ppbv #	89
4) Chloromethane	1.531	50	5956	0.547	ppbv	94
5) Vinyl Chloride	1.577	62	5732	0.516	ppbv	92
6) Bromomethane	1.664	94	2949	0.597	ppbv	95
7) Chloroethane	1.703	64	2582	0.591	ppbv #	87
8) Dichlorotetrafluoroethane	1.551	85	11783	0.519	ppbv	98
9) Propene	1.483	41	6622m	0.540	ppbv	
10) Heptane	4.972	43	16673	0.502	ppbv	89
11) Trichlorofluoromethane	1.874	101	14099	0.544	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	11252	0.528	ppbv	99
13) Ethanol	1.722	45	997	1.038	ppbv #	36
14) Bromoethene	1.780	108	4770	0.584	ppbv #	86
15) Acetone	1.835	43	15331	0.607	ppbv #	85
16) 1,3-Butadiene	1.606	39	8594	0.757	ppbv	82
17) tert-Butyl alcohol	2.039	59	17467	0.556	ppbv	97
18) 1,1-Dichloroethene	2.030	96	5634	0.565	ppbv #	92
19) Isopropyl Alcohol	1.884	45	9171	0.644	ppbv #	39
20) Methylene Chloride	2.059	84	5634	0.599	ppbv #	93
21) Allyl Chloride	2.091	41	9632	0.541	ppbv	89
22) trans-1,2-Dichloroethene	2.334	96	6353	0.546	ppbv	83
23) Vinyl Acetate	2.457	43	6809	0.649	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	11258	0.527	ppbv	97
25) Ethyl Acetate	2.836	43	36258	0.553	ppbv	98
26) Hexane	2.823	57	13605	0.538	ppbv	92
27) Carbon Disulfide	2.146	76	14510	0.535	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	8310	0.527	ppbv #	89
29) Chloroform	2.845	83	20149	0.544	ppbv	98
30) Cyclohexane	3.852	84	12063m	0.549	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	13601	0.529	ppbv	92
32) 1,1,1-Trichloroethane	3.360	97	20567	0.485	ppbv	100
34) 2-Butanone	2.557	43	19739	0.520	ppbv	96
35) Carbon Tetrachloride	3.755	117	18558	0.460	ppbv	93
36) Benzene	3.651	78	27488	0.529	ppbv #	87
37) 1,2-Dichloroethane	3.214	62	16062	0.540	ppbv	100
38) Trichloroethene	4.538	130	11460m	0.529	ppbv	
39) 1,2-Dichloropropane	4.308	63	10123	0.535	ppbv	92
40) 1,4-Dioxane	4.593	88	6121m	0.624	ppbv	
41) Tetrahydrofuran	3.059	42	11509m	0.533	ppbv	
42) Bromodichloromethane	4.483	83	20374	0.497	ppbv #	98
43) Methyl Methacrylate	4.875	69	11583m	0.528	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	46646	0.532	ppbv	95
45) t-1,3-Dichloropropene	6.406	75	12404	0.526	ppbv #	79

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	14374m	0.497	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	10972m	0.549	ppbv	
48) Dibromochloromethane	7.380	129	17042	0.503	ppbv	99
49) Bromoform	9.480	173	14828	0.487	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	33674	0.559	ppbv	97
51) 2-Hexanone	7.438	43	26154	0.523	ppbv #	100
52) Tetrachloroethene	8.218	164	10502	0.510	ppbv	94
53) Toluene	6.923	91	32444	0.527	ppbv	98
54) 1,2-Dibromoethane	7.648	107	14220	0.510	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	13959	0.523	ppbv #	1
57) Chlorobenzene	8.914	112	24826	0.540	ppbv #	91
58) Ethyl Benzene	9.348	91	44862	0.521	ppbv	96
59) m/p-Xylene	9.542	91	73028m	1.060	ppbv	
60) o-Xylene	9.959	91	36879	0.535	ppbv	98
61) Styrene	9.866	104	17198	0.504	ppbv	96
62) Isopropylbenzene	10.536	105	55531	0.538	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	21989	0.525	ppbv	96
64) n-propylbenzene	10.985	120	14030	0.528	ppbv	95
65) tert-Butylbenzene	11.526	119	53115	0.557	ppbv	100
66) Benzyl Chloride	11.613	91	5263	0.520	ppbv	97
67) sec-Butylbenzene	11.762	105	72879	0.550	ppbv	98
69) p-Isopropyltoluene	11.921	119	61933	0.542	ppbv	100
70) n-Butylbenzene	12.277	91	61507	0.527	ppbv	99
71) 2-Chlorotoluene	10.895	91	41637	0.520	ppbv	95
72) 4-Ethyltoluene	11.121	105	44473	0.518	ppbv #	94
73) 1,3,5-Trimethylbenzene	11.199	105	39190	0.523	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	48370	0.560	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	25122	0.530	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	24991	0.530	ppbv	97
77) 1,2-Dichlorobenzene	11.943	146	24548	0.532	ppbv	96
78) Hexachloro-1,3-Butadiene	13.879	225	25636	0.546	ppbv	99
79) Naphthalene	13.510	128	47990	0.508	ppbv	95
80) Naphthalene,2-methyl-	14.458	142	17486	0.380	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	19924	0.457	ppbv	97

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

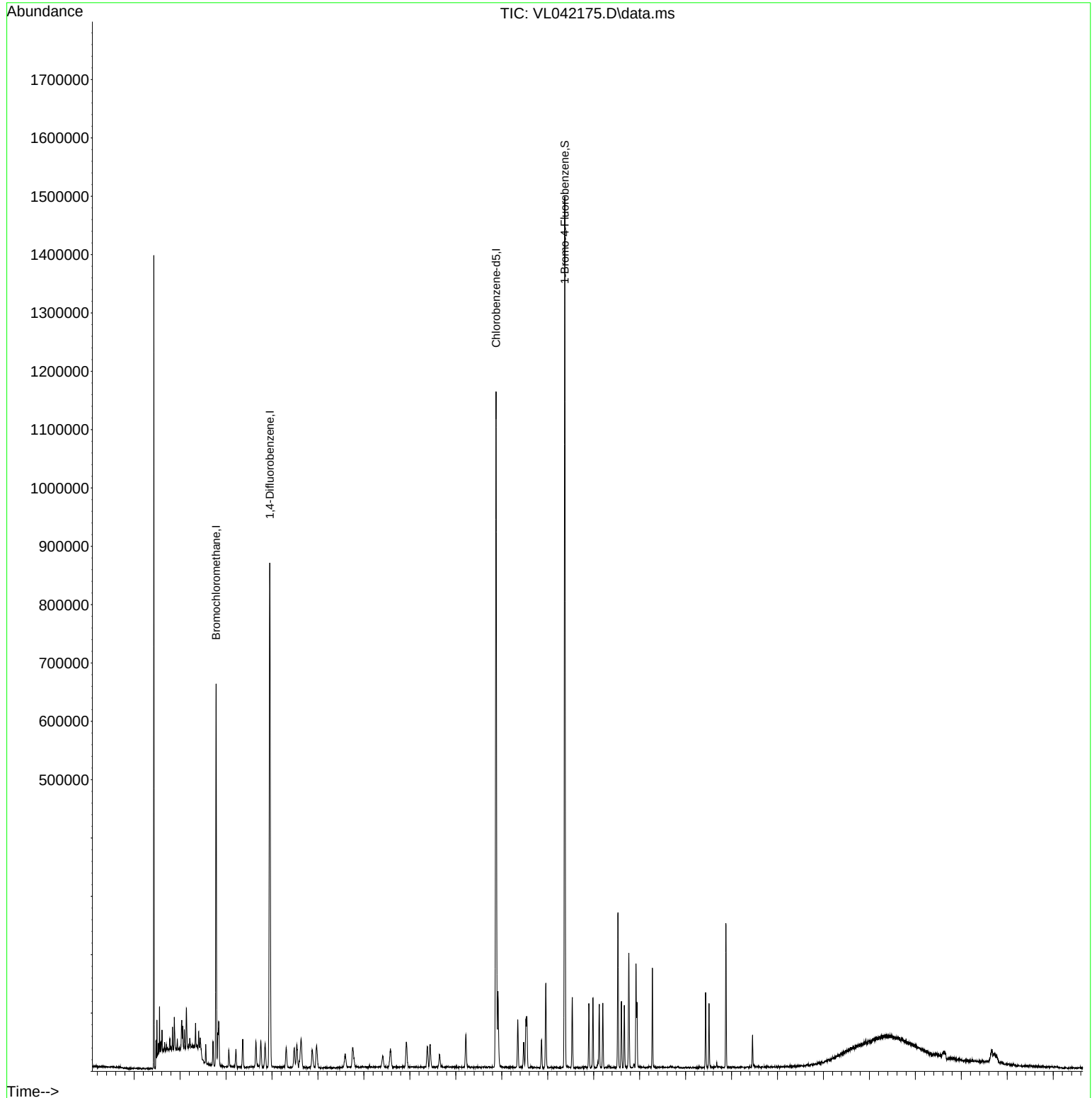
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042176.D
 Acq On : 27 Mar 2025 10:32
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	180740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	528028	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	481506	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	398069	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.700%	
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.580	62	1274	0.115	ppbv	# 42
32) 1,1,1-Trichloroethane	3.366	97	4509m	0.106	ppbv	
35) Carbon Tetrachloride	3.768	117	4131m	0.102	ppbv	
38) Trichloroethene	4.551	130	2306m	0.106	ppbv	
52) Tetrachloroethene	8.225	164	1895m	0.091	ppbv	
54) 1,2-Dibromoethane	7.652	107	3033m	0.108	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3852m	0.093	ppbv	
79) Naphthalene	13.513	128	7882	0.084	ppbv	# 92

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

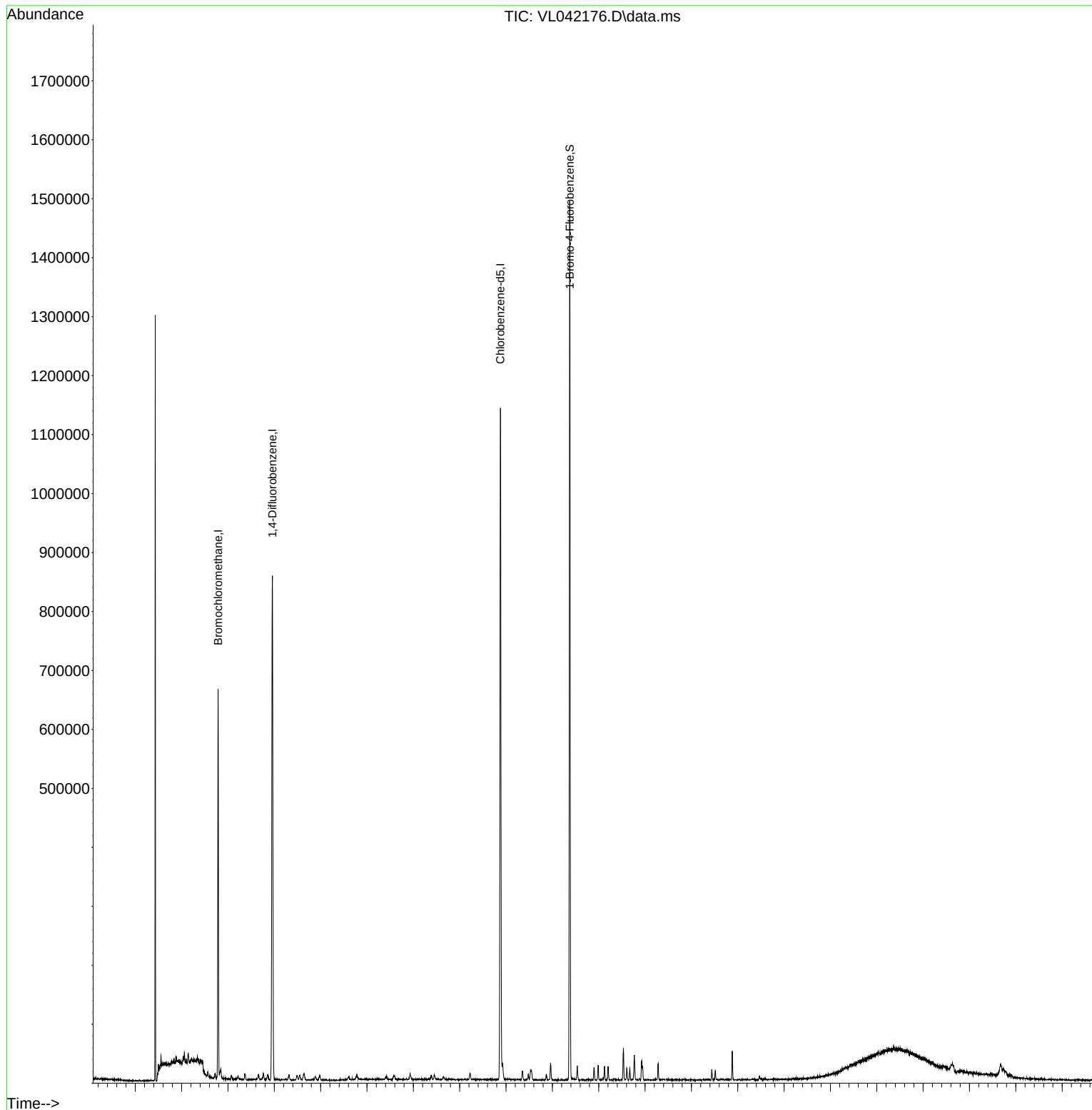
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042177.D
 Acq On : 27 Mar 2025 11:03
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:36:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	178058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	512915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	475617	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	389935	9.983	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	471m	0.043	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	1683m	0.040	ppbv	
35) Carbon Tetrachloride	3.758	117	1645m	0.042	ppbv	
38) Trichloroethene	4.541	130	712m	0.034	ppbv	
52) Tetrachloroethene	8.208	164	880m	0.044	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	1407m	0.034	ppbv	

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

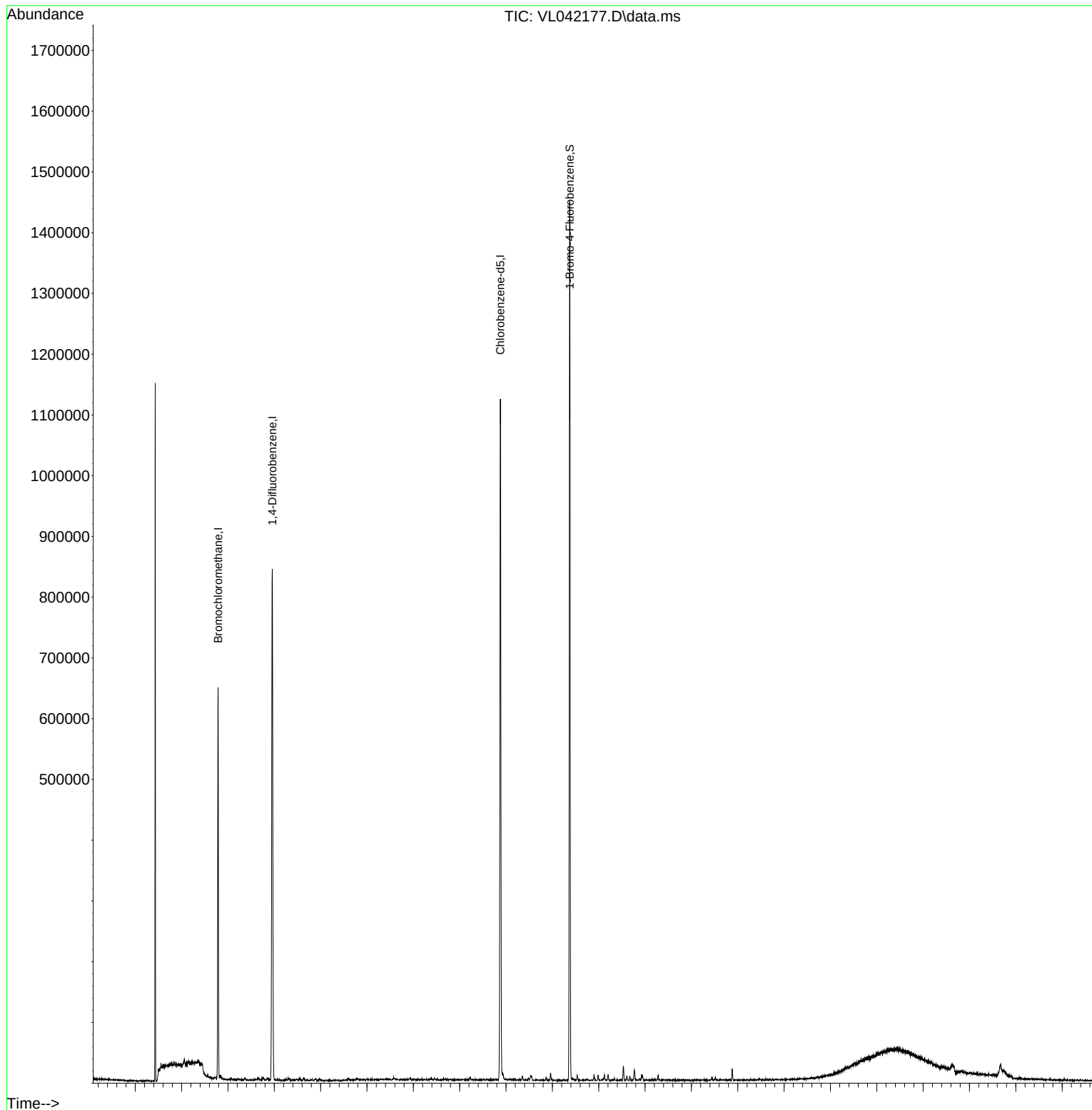
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:37:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	173372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	499360	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473077	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	387777	9.981	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	358962	14.023	ppbv	99
3) Chlorodifluoromethane	1.473	51	366164	14.002	ppbv	98
4) Chloromethane	1.531	50	148133	14.160	ppbv	98
5) Vinyl Chloride	1.576	62	141938	13.304	ppbv	97
6) Bromomethane	1.667	94	65113	13.734	ppbv	99
7) Chloroethane	1.703	64	58820	14.007	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	314834	14.442	ppbv	98
9) Propene	1.482	41	163799	13.902	ppbv	95
10) Heptane	4.972	43	446949	14.019	ppbv	99
11) Trichlorofluoromethane	1.874	101	349967	14.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	295217	14.419	ppbv	99
13) Ethanol	1.719	45	7382	8.001	ppbv	92
14) Bromoethene	1.780	108	106436	13.571	ppbv	98
15) Acetone	1.832	43	296254	12.218	ppbv	98
16) 1,3-Butadiene	1.605	39	150122	13.766	ppbv	100
17) tert-Butyl alcohol	2.039	59	416362	13.787	ppbv	99
18) 1,1-Dichloroethene	2.029	96	131720	13.762	ppbv	99
19) Isopropyl Alcohol	1.884	45	179117	13.093	ppbv	100
20) Methylene Chloride	2.059	84	113183	12.533	ppbv	95
21) Allyl Chloride	2.094	41	239440	14.002	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	149455	13.362	ppbv	98
23) Vinyl Acetate	2.460	43	138419	13.736	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	298760	14.570	ppbv	99
25) Ethyl Acetate	2.832	43	871882	13.855	ppbv	100
26) Hexane	2.822	57	344636	14.178	ppbv	98
27) Carbon Disulfide	2.146	76	370022	14.196	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	216463	14.303	ppbv	95
29) Chloroform	2.845	83	508614	14.297	ppbv	100
30) Cyclohexane	3.852	84	296458	14.040	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	351945	14.262	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	547329	13.448	ppbv	99
34) 2-Butanone	2.554	43	497020	13.726	ppbv	99
35) Carbon Tetrachloride	3.758	117	543385	14.140	ppbv	100
36) Benzene	3.651	78	699549	14.131	ppbv	98
37) 1,2-Dichloroethane	3.214	62	416544	14.697	ppbv	99
38) Trichloroethene	4.541	130	283430	13.715	ppbv	98
39) 1,2-Dichloropropane	4.308	63	257891	14.304	ppbv	99
40) 1,4-Dioxane	4.577	88	124925	13.354	ppbv #	91
41) Tetrahydrofuran	3.049	42	294634	14.301	ppbv	100
42) Bromodichloromethane	4.483	83	587772	15.043	ppbv	99
43) Methyl Methacrylate	4.874	69	295300	14.130	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	1180275	14.108	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	329360	14.649	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:37:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	400813	14.542	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	273137	14.331	ppbv	98
48) Dibromochloromethane	7.383	129	482431	14.936	ppbv	100
49) Bromoform	9.480	173	427143	14.730	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	755146	13.155	ppbv	99
51) 2-Hexanone	7.431	43	619419	13.005	ppbv #	99
52) Tetrachloroethene	8.221	164	258356	13.159	ppbv	95
53) Toluene	6.926	91	829648	14.137	ppbv	100
54) 1,2-Dibromoethane	7.645	107	381823	14.359	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.920	131	365410	14.032	ppbv	99
57) Chlorobenzene	8.917	112	618201	13.777	ppbv	100
58) Ethyl Benzene	9.351	91	1167096	13.889	ppbv	97
59) m/p-Xylene	9.548	91	1857561m	27.651	ppbv	
60) o-Xylene	9.962	91	913234	13.577	ppbv	99
61) Styrene	9.865	104	474195	14.250	ppbv	99
62) Isopropylbenzene	10.535	105	1362416	13.544	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	551386	13.491	ppbv	99
64) n-propylbenzene	10.985	120	356118	13.753	ppbv	94
65) tert-Butylbenzene	11.529	119	1200149	12.901	ppbv	98
66) Benzyl Chloride	11.613	91	134397	13.615	ppbv	100
67) sec-Butylbenzene	11.765	105	1643629	12.711	ppbv	99
69) p-Isopropyltoluene	11.924	119	1437016	12.906	ppbv	98
70) n-Butylbenzene	12.280	91	1477443	12.975	ppbv	99
71) 2-Chlorotoluene	10.898	91	1071432	13.724	ppbv	99
72) 4-Ethyltoluene	11.121	105	1136415	13.569	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	979783	13.395	ppbv	99
74) 1,2,4-Trimethylbenzene	11.535	105	1048874	12.447	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	626015	13.545	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	628694	13.668	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	602844	13.396	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	556392	12.147	ppbv	99
79) Naphthalene	13.513	128	1258479	13.653	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	718900	16.018	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	598416	14.075	ppbv	99

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

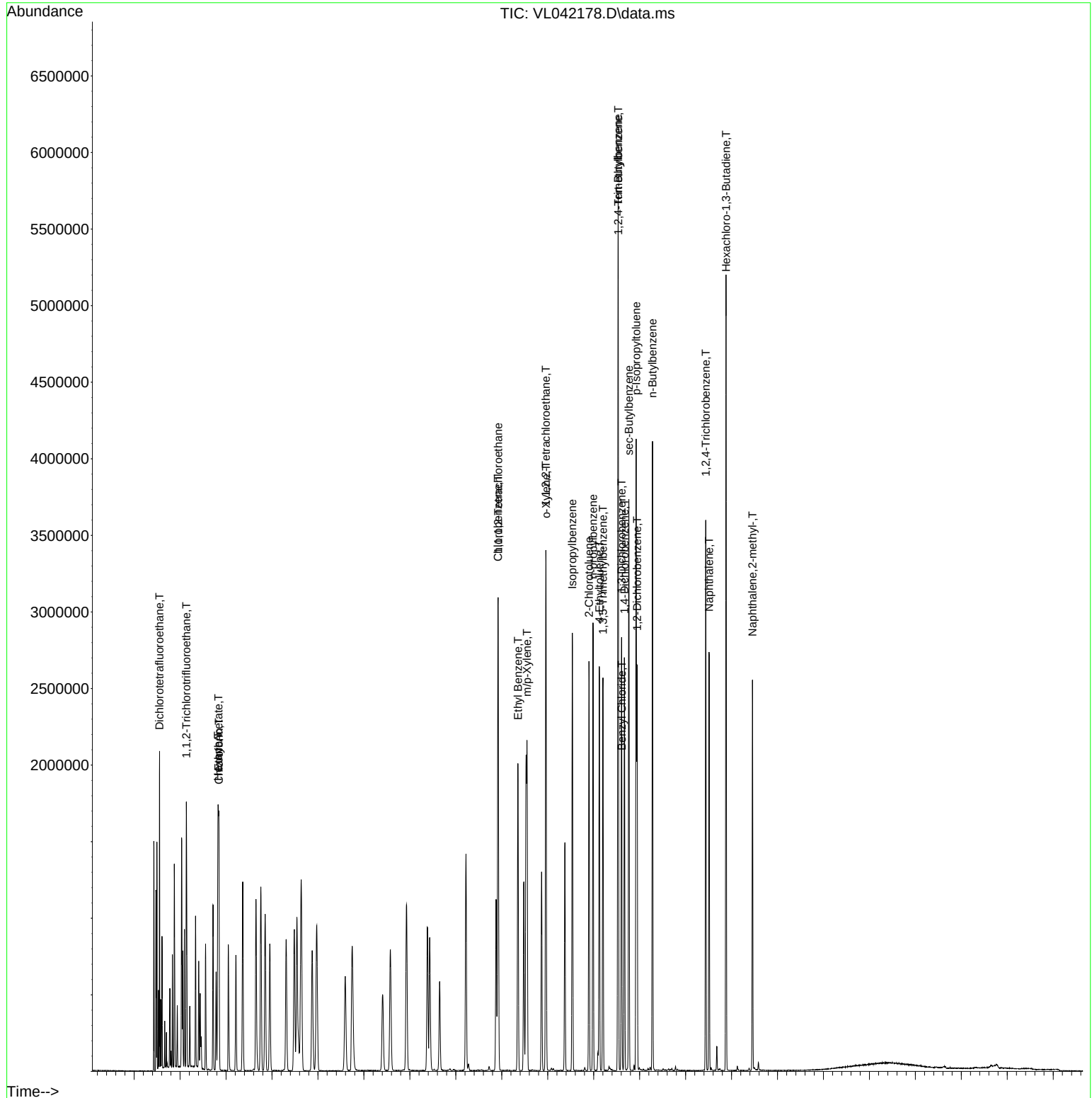
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	174350	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	498105	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473357	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 379929 9.774 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.700%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.496	85	245714	9.545 ppbv	100
3) Chlorodifluoromethane	1.473	51	247046	9.394 ppbv	97
4) Chloromethane	1.531	50	98527	9.365 ppbv	98
5) Vinyl Chloride	1.577	62	95578	8.573 ppbv	97
6) Bromomethane	1.667	94	41950	8.799 ppbv	97
7) Chloroethane	1.703	64	37400	8.856 ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	213819	9.753 ppbv	95
9) Propene	1.483	41	105338	8.739 ppbv	99
10) Heptane	4.972	43	298768	9.318 ppbv	100
11) Trichlorofluoromethane	1.874	101	236793	9.453 ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	193965	9.421 ppbv	98
13) Ethanol	1.719	45	5773	5.066 ppbv	97
14) Bromoethene	1.780	108	73572	9.328 ppbv	97
15) Acetone	1.832	43	198300	8.132 ppbv	98
16) 1,3-Butadiene	1.606	39	97840	8.216 ppbv	99
17) tert-Butyl alcohol	2.039	59	276195	9.094 ppbv	99
18) 1,1-Dichloroethene	2.033	96	87137	9.053 ppbv	89
19) Isopropyl Alcohol	1.884	45	122768	8.923 ppbv	98
20) Methylene Chloride	2.059	84	72813	8.018 ppbv	97
21) Allyl Chloride	2.094	41	157418	9.154 ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	101141	9.092 ppbv	93
23) Vinyl Acetate	2.460	43	90260	8.553 ppbv #	97
24) 1,1-Dichloroethane	2.405	63	197968	9.600 ppbv	99
25) Ethyl Acetate	2.832	43	592585	9.364 ppbv	99
26) Hexane	2.823	57	231125	9.455 ppbv	99
27) Carbon Disulfide	2.146	76	248834	9.493 ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	146470	9.624 ppbv	95
29) Chloroform	2.845	83	344106	9.619 ppbv	100
30) Cyclohexane	3.852	84	197897	9.323 ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	234487	9.449 ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	365364	8.921 ppbv	99
34) 2-Butanone	2.554	43	331236	9.171 ppbv	99
35) Carbon Tetrachloride	3.758	117	363392	9.339 ppbv	98
36) Benzene	3.651	78	461261	9.341 ppbv	99
37) 1,2-Dichloroethane	3.217	62	273559	9.676 ppbv	99
38) Trichloroethene	4.541	130	191746	9.306 ppbv	97
39) 1,2-Dichloropropane	4.311	63	170839	9.500 ppbv	95
40) 1,4-Dioxane	4.577	88	80592	8.443 ppbv #	97
41) Tetrahydrofuran	3.052	42	196163	9.431 ppbv	99
42) Bromodichloromethane	4.486	83	384006	9.853 ppbv	100
43) Methyl Methacrylate	4.878	69	195339	9.344 ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	787400	9.436 ppbv	99
45) t-1,3-Dichloropropene	6.409	75	212335	9.467 ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	265101	9.643	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	183228	9.638	ppbv	98
48) Dibromochloromethane	7.383	129	322766	10.018	ppbv	100
49) Bromoform	9.480	173	285149	9.858	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	500791	8.749	ppbv	99
51) 2-Hexanone	7.432	43	410889	8.741	ppbv #	99
52) Tetrachloroethene	8.221	164	173420	8.855	ppbv	93
53) Toluene	6.927	91	556897	9.514	ppbv	99
54) 1,2-Dibromoethane	7.645	107	256930	9.695	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	249270	9.567	ppbv	99
57) Chlorobenzene	8.917	112	422531	9.411	ppbv	98
58) Ethyl Benzene	9.351	91	791360	9.412	ppbv	98
59) m/p-Xylene	9.548	91	1260340m	18.772	ppbv	
60) o-Xylene	9.959	91	632918	9.404	ppbv	99
61) Styrene	9.866	104	315910	9.488	ppbv	99
62) Isopropylbenzene	10.539	105	944938	9.388	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	382635	9.357	ppbv	99
64) n-propylbenzene	10.985	120	244547	9.439	ppbv	98
65) tert-Butylbenzene	11.529	119	843828	9.065	ppbv	98
66) Benzyl Chloride	11.613	91	86804	8.789	ppbv	97
67) sec-Butylbenzene	11.765	105	1172636	9.063	ppbv	100
69) p-Isopropyltoluene	11.924	119	1019694	9.153	ppbv	100
70) n-Butylbenzene	12.280	91	1038548	9.115	ppbv	100
71) 2-Chlorotoluene	10.898	91	732874	9.382	ppbv	100
72) 4-Ethyltoluene	11.125	105	785185	9.370	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	673541	9.203	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	729155	8.648	ppbv	94
75) 1,3-Dichlorobenzene	11.607	146	426573	9.224	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	426318	9.263	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	412180	9.154	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	356386	7.776	ppbv	100
79) Naphthalene	13.513	128	773311	8.385	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	323443	7.151	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	363863	8.553	ppbv	98

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

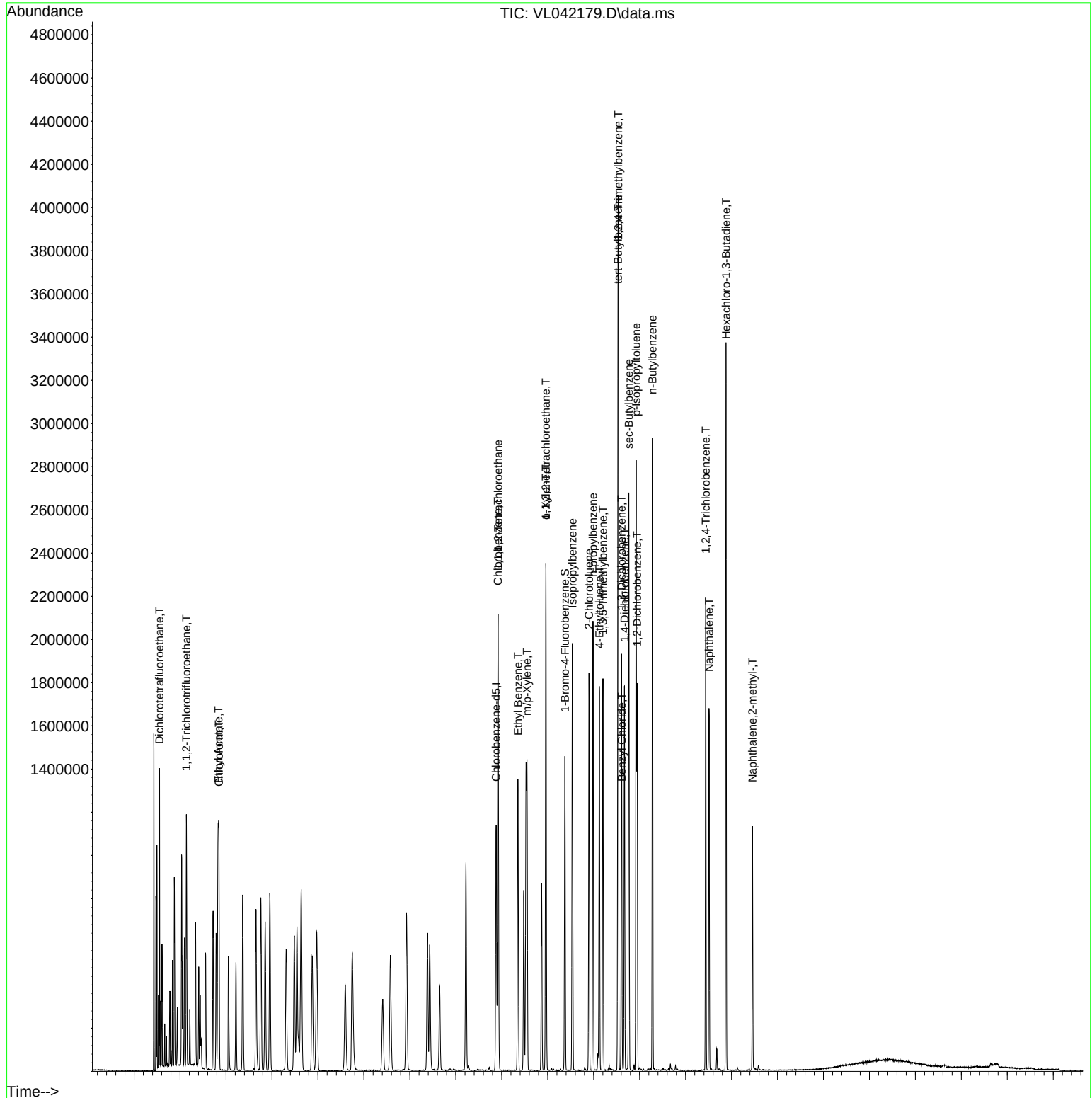
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	1.476	1.409	4.5	94	0.00
3	Chlorodifluoromethane	1.508	1.417	6.0	91	0.00
4	Chloromethane	0.603	0.565	6.3	92	0.00
5 T	Vinyl Chloride	0.639	0.548	14.2	93	0.00
6 T	Bromomethane	0.273	0.241	11.7	87	0.00
7	Chloroethane	0.242	0.215	11.2	88	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.226	2.5	94	0.00
9 T	Propene	0.691	0.604	12.6	85	0.00
10 T	Heptane	1.839	1.714	6.8	89	0.00
11 T	Trichlorofluoromethane	1.437	1.358	5.5	95	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.113	5.8	93	0.00
13	Ethanol	0.065	0.033#	49.2#	108	0.00
14 T	Bromoethene	0.452	0.422	6.6	94	0.00
15 T	Acetone	1.399	1.137	18.7	95	0.00
16 T	1,3-Butadiene	0.683	0.561	17.9	91	0.00
17	tert-Butyl alcohol	1.742	1.584	9.1	91	0.00
18 T	1,1-Dichloroethene	0.552	0.500	9.4	92	0.00
19 T	Isopropyl Alcohol	0.789	0.704	10.8	93	0.00
20 T	Methylene Chloride	0.521	0.418	19.8	89	0.00
21 T	Allyl Chloride	0.986	0.903	8.4	93	0.00
22 T	trans-1,2-Dichloroethene	0.638	0.580	9.1	92	0.00
23 T	Vinyl Acetate	0.605	0.518	14.4	97	0.00
24 T	1,1-Dichloroethane	1.183	1.135	4.1	94	0.00
25 T	Ethyl Acetate	3.630	3.399	6.4	92	0.00
26 T	Hexane	1.402	1.326	5.4	93	0.00
27 T	Carbon Disulfide	1.503	1.427	5.1	93	0.00
28 T	Methyl tert-Butyl Ether	0.873	0.840	3.8	94	0.00
29 T	Chloroform	2.052	1.974	3.8	95	0.00
30 T	Cyclohexane	1.217	1.135	6.7	91	0.00
31 T	cis-1,2-Dichloroethene	1.423	1.345	5.5	91	0.00
32 T	1,1,1-Trichloroethane	2.349	2.096	10.8	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.725	0.665	8.3	91	0.00
35 T	Carbon Tetrachloride	0.781	0.730	6.5	95	0.00
36 T	Benzene	0.991	0.926	6.6	91	0.00
37 T	1,2-Dichloroethane	0.568	0.549	3.3	93	0.00
38 T	Trichloroethene	0.414	0.385	7.0	94	0.00
39 T	1,2-Dichloropropane	0.361	0.343	5.0	93	0.00
40 T	1,4-Dioxane	0.192	0.162	15.6	87	0.00
41 T	Tetrahydrofuran	0.418	0.394	5.7	90	0.00
42 T	Bromodichloromethane	0.782	0.771	1.4	92	0.00
43	Methyl Methacrylate	0.420	0.392	6.7	89	0.00
44 T	2,2,4-Trimethylpentane	1.675	1.581	5.6	90	0.00
45 T	t-1,3-Dichloropropene	0.450	0.426	5.3	89	0.00
46 T	cis-1,3-Dichloropropene	0.552	0.532	3.6	88	0.00
47 T	1,1,2-Trichloroethane	0.382	0.368	3.7	92	0.00
48 T	Dibromochloromethane	0.647	0.648	-0.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.581	0.572	1.5	90	0.00
50 T	4-Methyl-2-Pentanone	1.149	1.005	12.5	89	0.00
51 T	2-Hexanone	0.944	0.825	12.6	89	0.00
52 T	Tetrachloroethene	0.393	0.348	11.5	93	0.00
53 T	Toluene	1.175	1.118	4.9	91	0.00
54 T	1,2-Dibromoethane	0.532	0.516	3.0	93	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
56	1,1,1,2-Tetrachloroethane	0.550	0.527	4.2	94	0.00
57 T	Chlorobenzene	0.949	0.893	5.9	93	0.00
58 T	Ethyl Benzene	1.776	1.672	5.9	91	0.00
59 T	m/p-Xylene	1.418	1.331	6.1	92	0.00
60 T	o-Xylene	1.422	1.337	6.0	92	0.00
61 T	Styrene	0.703	0.667	5.1	89	0.00
62	Isopropylbenzene	2.126	1.996	6.1	93	0.00
63 T	1,1,2,2-Tetrachloroethane	0.864	0.808	6.5	93	0.00
64	n-propylbenzene	0.547	0.517	5.5	94	0.00
65	tert-Butylbenzene	1.966	1.783	9.3	94	0.00
66 T	Benzyl Chloride	0.209	0.183	12.4	82	0.00
67	sec-Butylbenzene	2.733	2.477	9.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	0.821	0.803	2.2	90	0.00
69	p-Isopropyltoluene	2.354	2.154	8.5	94	0.00
70	n-Butylbenzene	2.407	2.194	8.8	94	0.00
71	2-Chlorotoluene	1.650	1.548	6.2	92	0.00
72 T	4-Ethyltoluene	1.770	1.659	6.3	93	0.00
73 T	1,3,5-Trimethylbenzene	1.546	1.423	8.0	93	0.00
74 T	1,2,4-Trimethylbenzene	1.781	1.540	13.5	93	0.00
75 T	1,3-Dichlorobenzene	0.977	0.901	7.8	93	0.00
76 T	1,4-Dichlorobenzene	0.972	0.901	7.3	92	0.00
77 T	1,2-Dichlorobenzene	0.951	0.871	8.4	93	0.00
78 T	Hexachloro-1,3-Butadiene	0.968	0.753	22.2	86	0.00
79 T	Naphthalene	1.948	1.634	16.1	82	0.00
80 T	Naphthalene,2-methyl-	0.955	0.683	28.5	63	0.00
81 T	1,2,4-Trichlorobenzene	0.899	0.769	14.5	82	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	9.545	4.6	94	0.00
3	Chlorodifluoromethane	10.000	9.394	6.1	91	0.00
4	Chloromethane	10.000	9.365	6.3	92	0.00
5 T	Vinyl Chloride	10.000	8.573	14.3	93	0.00
6 T	Bromomethane	10.000	8.799	12.0	87	0.00
7	Chloroethane	10.000	8.856	11.4	88	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.753	2.5	94	0.00
9 T	Propene	10.000	8.739	12.6	85	0.00
10 T	Heptane	10.000	9.318	6.8	89	0.00
11 T	Trichlorofluoromethane	10.000	9.453	5.5	95	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.421	5.8	93	0.00
13	Ethanol	10.000	5.066	49.3#	108	0.00
14 T	Bromoethene	10.000	9.328	6.7	94	0.00
15 T	Acetone	10.000	8.132	18.7	95	0.00
16 T	1,3-Butadiene	10.000	8.216	17.8	91	0.00
17	tert-Butyl alcohol	10.000	9.094	9.1	91	0.00
18 T	1,1-Dichloroethene	10.000	9.053	9.5	92	0.00
19 T	Isopropyl Alcohol	10.000	8.923	10.8	93	0.00
20 T	Methylene Chloride	10.000	8.018	19.8	89	0.00
21 T	Allyl Chloride	10.000	9.154	8.5	93	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.092	9.1	92	0.00
23 T	Vinyl Acetate	10.000	8.553	14.5	97	0.00
24 T	1,1-Dichloroethane	10.000	9.600	4.0	94	0.00
25 T	Ethyl Acetate	10.000	9.364	6.4	92	0.00
26 T	Hexane	10.000	9.455	5.4	93	0.00
27 T	Carbon Disulfide	10.000	9.493	5.1	93	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.624	3.8	94	0.00
29 T	Chloroform	10.000	9.619	3.8	95	0.00
30 T	Cyclohexane	10.000	9.323	6.8	91	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.449	5.5	91	0.00
32 T	1,1,1-Trichloroethane	10.000	8.921	10.8	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34 T	2-Butanone	10.000	9.171	8.3	91	0.00
35 T	Carbon Tetrachloride	10.000	9.339	6.6	95	0.00
36 T	Benzene	10.000	9.341	6.6	91	0.00
37 T	1,2-Dichloroethane	10.000	9.676	3.2	93	0.00
38 T	Trichloroethene	10.000	9.306	6.9	94	0.00
39 T	1,2-Dichloropropane	10.000	9.500	5.0	93	0.00
40 T	1,4-Dioxane	10.000	8.443	15.6	87	0.00
41 T	Tetrahydrofuran	10.000	9.431	5.7	90	0.00
42 T	Bromodichloromethane	10.000	9.853	1.5	92	0.00
43	Methyl Methacrylate	10.000	9.344	6.6	89	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.436	5.6	90	0.00
45 T	t-1,3-Dichloropropene	10.000	9.467	5.3	89	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.643	3.6	88	0.00
47 T	1,1,2-Trichloroethane	10.000	9.638	3.6	92	0.00
48 T	Dibromochloromethane	10.000	10.018	-0.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	9.858	1.4	90	0.00
50 T	4-Methyl-2-Pentanone	10.000	8.749	12.5	89	0.00
51 T	2-Hexanone	10.000	8.741	12.6	89	0.00
52 T	Tetrachloroethene	10.000	8.855	11.4	93	0.00
53 T	Toluene	10.000	9.514	4.9	91	0.00
54 T	1,2-Dibromoethane	10.000	9.695	3.0	93	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	91	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.567	4.3	94	0.00
57 T	Chlorobenzene	10.000	9.411	5.9	93	0.00
58 T	Ethyl Benzene	10.000	9.412	5.9	91	0.00
59 T	m/p-Xylene	20.000	18.772	6.1	92	0.00
60 T	o-Xylene	10.000	9.404	6.0	92	0.00
61 T	Styrene	10.000	9.488	5.1	89	0.00
62	Isopropylbenzene	10.000	9.388	6.1	93	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.357	6.4	93	0.00
64	n-propylbenzene	10.000	9.439	5.6	94	0.00
65	tert-Butylbenzene	10.000	9.065	9.4	94	0.00
66 T	Benzyl Chloride	10.000	8.789	12.1	82	0.00
67	sec-Butylbenzene	10.000	9.063	9.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.774	2.3	90	0.00
69	p-Isopropyltoluene	10.000	9.153	8.5	94	0.00
70	n-Butylbenzene	10.000	9.115	8.8	94	0.00
71	2-Chlorotoluene	10.000	9.382	6.2	92	0.00
72 T	4-Ethyltoluene	10.000	9.370	6.3	93	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.203	8.0	93	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.648	13.5	93	0.00
75 T	1,3-Dichlorobenzene	10.000	9.224	7.8	93	0.00
76 T	1,4-Dichlorobenzene	10.000	9.263	7.4	92	0.00
77 T	1,2-Dichlorobenzene	10.000	9.154	8.5	93	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.776	22.2	86	0.00
79 T	Naphthalene	10.000	8.385	16.2	82	0.00
80 T	Naphthalene,2-methyl-	10.000	7.151	28.5	63	0.00
81 T	1,2,4-Trichlorobenzene	10.000	8.553	14.5	82	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1691 SAS No.: Q1691 SDG No.: Q1691

Instrument ID: MSVOA_L Calibration Date/Time: 04/04/2025 08:58

Lab File ID: VL042215.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.476	1.405		-4.81	30
Chloromethane	0.603	0.556		-7.79	30
Vinyl Chloride	0.639	0.525		-17.84	30
Bromomethane	0.273	0.237		-13.19	30
Chloroethane	0.242	0.212		-12.4	30
Tetrahydrofuran	0.418	0.366		-12.44	30
Trichlorofluoromethane	1.437	1.368		-4.8	30
1,1,2-Trichlorotrifluoroethane	1.181	1.042		-11.77	30
Dichlorotetrafluoroethane	1.257	1.215		-3.34	30
tert-Butyl alcohol	1.742	1.412		-18.94	30
Heptane	1.839	1.552		-15.61	30
1,1-Dichloroethene	0.552	0.469		-15.04	30
Acetone	1.399	1.172		-16.23	30
Carbon Disulfide	1.503	1.304		-13.24	30
Methyl tert-Butyl Ether	0.873	0.700		-19.82	30
Methylene Chloride	0.521	0.407		-21.88	30
trans-1,2-Dichloroethene	0.638	0.522		-18.18	30
1,1-Dichloroethane	1.183	1.062		-10.23	30
Cyclohexane	1.217	1.048		-13.89	30
2-Butanone	0.725	0.669		-7.72	30
Carbon Tetrachloride	0.781	0.794		1.66	30
cis-1,2-Dichloroethene	1.423	1.299		-8.71	30
Chloroform	2.052	2.021		-1.51	30
1,1,1-Trichloroethane	2.349	2.143		-8.77	30
2,2,4-Trimethylpentane	1.675	1.519		-9.31	30
Benzene	0.991	0.900		-9.18	30
1,2-Dichloroethane	0.568	0.591		4.05	30
Trichloroethene	0.414	0.384		-7.25	30
1,2-Dichloropropane	0.361	0.328		-9.14	30
Bromodichloromethane	0.782	0.802		2.56	30
4-Methyl-2-Pentanone	1.149	0.935		-18.63	30
Toluene	1.175	1.056		-10.13	30
t-1,3-Dichloropropene	0.450	0.379		-15.78	30
cis-1,3-Dichloropropene	0.552	0.479		-13.23	30
1,1,2-Trichloroethane	0.382	0.364		-4.71	30
Dibromochloromethane	0.647	0.652		0.77	30
1,2-Dibromoethane	0.532	0.505		-5.07	30
Tetrachloroethene	0.393	0.328		-16.54	30

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1691 SAS No.: Q1691 SDG No.: Q1691

Instrument ID: MSVOA_L Calibration Date/Time: 04/04/2025 08:58

Lab File ID: VL042215.D Init. Calib. Date(s): 03/27/2025 03/27/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:26 11:36

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	0.949	0.937		-1.26	30
Ethyl Benzene	1.776	1.694		-4.62	30
m/p-Xylene	1.418	1.420		0.14	30
o-Xylene	1.422	1.395		-1.9	30
Styrene	0.703	0.661		-5.97	30
Bromoform	0.581	0.562		-3.27	30
1,1,2,2-Tetrachloroethane	0.864	0.871		0.81	30
2-Chlorotoluene	1.650	1.655		0.3	30
1,3,5-Trimethylbenzene	1.546	1.558		0.78	30
1,2,4-Trimethylbenzene	1.781	1.730		-2.86	30
1,3-Dichlorobenzene	0.977	1.009		3.28	30
1,4-Dichlorobenzene	0.972	1.006		3.5	30
1,2-Dichlorobenzene	0.951	0.990		4.1	30
1,2,4-Trichlorobenzene	0.899	0.896		-0.33	30
Hexachloro-1,3-Butadiene	0.968	0.830		-14.26	30
1,3-Butadiene	0.683	0.570		-16.55	30
Naphthalene	1.948	2.004		2.88	30
4-Ethyltoluene	1.770	1.797		1.52	30
1-Bromo-4-Fluorobenzene	0.821	0.826		0.61	30
Hexane	1.402	1.237		-11.77	30
Allyl Chloride	0.986	0.844		-14.4	30
1,4-Dioxane	191.626	156.368		-18.4	30
Methyl Methacrylate	0.420	0.356		-15.24	30

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042215.D
 Acq On : 04 Apr 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/07/2025
 Supervised By : Mahesh Dadoda 04/08/2025

Quant Time: Apr 05 01:58:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	187369	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	519347	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	464975	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 383840 10.052 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	263276	9.517	ppbv	99
3) Chlorodifluoromethane	1.476	51	264623	9.363	ppbv	96
4) Chloromethane	1.534	50	104117	9.209	ppbv	96
5) Vinyl Chloride	1.580	62	98352	8.209	ppbv	97
6) Bromomethane	1.667	94	44500	8.685	ppbv	97
7) Chloroethane	1.706	64	39804	8.771	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	227648	9.663	ppbv	93
9) Propene	1.486	41	101955	7.871	ppbv	99
10) Heptane	4.988	43	290775	8.439	ppbv	99
11) Trichlorofluoromethane	1.877	101	256266	9.520	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	195280	8.826	ppbv	97
13) Ethanol	1.722	45	5295	4.324	ppbv	99
14) Bromoethene	1.783	108	72355	8.536	ppbv	98
15) Acetone	1.835	43	219621	8.381	ppbv	96
16) 1,3-Butadiene	1.609	39	106868	8.351	ppbv	98
17) tert-Butyl alcohol	2.042	59	264585	8.107	ppbv	100
18) 1,1-Dichloroethene	2.036	96	87932	8.501	ppbv	95
19) Isopropyl Alcohol	1.887	45	123909	8.381	ppbv	98
20) Methylene Chloride	2.062	84	76274	7.815	ppbv	94
21) Allyl Chloride	2.097	41	158103	8.555	ppbv	98
22) trans-1,2-Dichloroethene	2.343	96	97729	8.175	ppbv	96
23) Vinyl Acetate	2.463	43	81872	7.219	ppbv	99
24) 1,1-Dichloroethane	2.411	63	199075	8.983	ppbv	99
25) Ethyl Acetate	2.839	43	602732	8.862	ppbv	99
26) Hexane	2.829	57	231730	8.821	ppbv	99
27) Carbon Disulfide	2.152	76	244246	8.670	ppbv	96
28) Methyl tert-Butyl Ether	2.444	73	131136	8.018	ppbv	97
29) Chloroform	2.852	83	378649	9.849	ppbv	99
30) Cyclohexane	3.861	84	196271	8.604	ppbv	96
31) cis-1,2-Dichloroethene	2.722	61	243455	9.129	ppbv	96
32) 1,1,1-Trichloroethane	3.373	97	401472	9.121	ppbv	98
34) 2-Butanone	2.560	43	347241	9.221	ppbv	100
35) Carbon Tetrachloride	3.764	117	412365	10.164	ppbv	97
36) Benzene	3.661	78	467443	9.079	ppbv	97
37) 1,2-Dichloroethane	3.221	62	307037	10.416	ppbv	97
38) Trichloroethene	4.554	130	199451	9.284	ppbv	98
39) 1,2-Dichloropropane	4.318	63	170450	9.090	ppbv	91
40) 1,4-Dioxane	4.590	88	81209	8.160	ppbv #	93
41) Tetrahydrofuran	3.059	42	189995	8.761	ppbv	98
42) Bromodichloromethane	4.496	83	416628	10.252	ppbv	98
43) Methyl Methacrylate	4.884	69	184838	8.480	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	789050	9.069	ppbv	97
45) t-1,3-Dichloropropene	6.422	75	196583	8.407	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042215.D
 Acq On : 04 Apr 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/07/2025
 Supervised By : Mahesh Dadoda 04/08/2025

Quant Time: Apr 05 01:58:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	248725	8.677	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	188954	9.533	ppbv	96
48) Dibromochloromethane	7.396	129	338657	10.081	ppbv	100
49) Bromoform	9.490	173	291660	9.671	ppbv	100
50) 4-Methyl-2-Pentanone	5.761	43	485587	8.136	ppbv	98
51) 2-Hexanone	7.448	43	393233	8.024	ppbv #	96
52) Tetrachloroethene	8.231	164	170524	8.351	ppbv	94
53) Toluene	6.939	91	548226	8.982	ppbv	99
54) 1,2-Dibromoethane	7.661	107	262312	9.493	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.930	131	265488	10.373	ppbv	97
57) Chlorobenzene	8.927	112	435637	9.878	ppbv	97
58) Ethyl Benzene	9.360	91	787508	9.535	ppbv	100
59) m/p-Xylene	9.558	91	1320455m	20.022	ppbv	
60) o-Xylene	9.969	91	648429	9.808	ppbv	96
61) Styrene	9.875	104	307359	9.397	ppbv	99
62) Isopropylbenzene	10.545	105	991027	10.024	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	404850	10.079	ppbv	100
64) n-propylbenzene	10.995	120	263771	10.364	ppbv	96
65) tert-Butylbenzene	11.535	119	904984	9.898	ppbv	98
66) Benzyl Chloride	11.620	91	71677	7.388	ppbv	97
67) sec-Butylbenzene	11.772	105	1272047	10.009	ppbv	99
69) p-Isopropyltoluene	11.930	119	1096744	10.022	ppbv	99
70) n-Butylbenzene	12.283	91	1129301	10.090	ppbv	99
71) 2-Chlorotoluene	10.908	91	769367	10.027	ppbv	100
72) 4-Ethyltoluene	11.131	105	835598	10.151	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	724375	10.076	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	804419	9.712	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	469384	10.333	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	467820	10.348	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	460424	10.410	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	386022	8.574	ppbv	100
79) Naphthalene	13.516	128	931920	10.287	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	470633	10.593	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	416845	9.975	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042215.D
 Acq On : 04 Apr 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 05 01:58:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	100	0.00
2 T	Dichlorodifluoromethane	1.476	1.405	4.8	100	0.00
3	Chlorodifluoromethane	1.508	1.412	6.4	97	0.00
4	Chloromethane	0.603	0.556	7.8	97	0.00
5 T	Vinyl Chloride	0.639	0.525	17.8	96	0.00
6 T	Bromomethane	0.273	0.237	13.2	93	0.00
7	Chloroethane	0.242	0.212	12.4	94	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.215	3.3	100	0.00
9 T	Propene	0.691	0.544	21.3	83	0.00
10 T	Heptane	1.839	1.552	15.6	87	0.02
11 T	Trichlorofluoromethane	1.437	1.368	4.8	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.042	11.8	93	0.00
13	Ethanol	0.065	0.028#	56.9#	99	0.00
14 T	Bromoethene	0.452	0.386	14.6	93	0.00
15 T	Acetone	1.399	1.172	16.2	106	0.00
16 T	1,3-Butadiene	0.683	0.570	16.5	100	0.00
17	tert-Butyl alcohol	1.742	1.412	18.9	87	0.00
18 T	1,1-Dichloroethene	0.552	0.469	15.0	93	0.00
19 T	Isopropyl Alcohol	0.789	0.661	16.2	94	0.00
20 T	Methylene Chloride	0.521	0.407	21.9	93	0.00
21 T	Allyl Chloride	0.986	0.844	14.4	94	0.00
22 T	trans-1,2-Dichloroethene	0.638	0.522	18.2	89	0.00
23 T	Vinyl Acetate	0.605	0.437	27.8	88	0.00
24 T	1,1-Dichloroethane	1.183	1.062	10.2	95	0.00
25 T	Ethyl Acetate	3.630	3.217	11.4	93	0.00
26 T	Hexane	1.402	1.237	11.8	93	0.00
27 T	Carbon Disulfide	1.503	1.304	13.2	91	0.00
28 T	Methyl tert-Butyl Ether	0.873	0.700	19.8	84	0.00
29 T	Chloroform	2.052	2.021	1.5	105	0.00
30 T	Cyclohexane	1.217	1.048	13.9	90	0.00
31 T	cis-1,2-Dichloroethene	1.423	1.299	8.7	95	0.00
32 T	1,1,1-Trichloroethane	2.349	2.143	8.8	104	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
34 T	2-Butanone	0.725	0.669	7.7	95	0.00
35 T	Carbon Tetrachloride	0.781	0.794	-1.7	108	0.00
36 T	Benzene	0.991	0.900	9.2	92	0.00
37 T	1,2-Dichloroethane	0.568	0.591	-4.0	105	0.00
38 T	Trichloroethene	0.414	0.384	7.2	98	0.00
39 T	1,2-Dichloropropane	0.361	0.328	9.1	93	0.00
40 T	1,4-Dioxane	0.192	0.156	18.8	88	0.01
41 T	Tetrahydrofuran	0.418	0.366	12.4	88	0.00
42 T	Bromodichloromethane	0.782	0.802	-2.6	99	0.01
43	Methyl Methacrylate	0.420	0.356	15.2	84	0.01
44 T	2,2,4-Trimethylpentane	1.675	1.519	9.3	90	0.01
45 T	t-1,3-Dichloropropene	0.450	0.379	15.8	82	0.02
46 T	cis-1,3-Dichloropropene	0.552	0.479	13.2	83	0.02
47 T	1,1,2-Trichloroethane	0.382	0.364	4.7	95	0.02
48 T	Dibromochloromethane	0.647	0.652	-0.8	98	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042215.D
 Acq On : 04 Apr 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 05 01:58:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.581	0.562	3.3	92	0.01
50 T	4-Methyl-2-Pentanone	1.149	0.935	18.6	87	0.02
51 T	2-Hexanone	0.944	0.757	19.8	85	0.02
52 T	Tetrachloroethene	0.393	0.328	16.5	91	0.01
53 T	Toluene	1.175	1.056	10.1	89	0.01
54 T	1,2-Dibromoethane	0.532	0.505	5.1	95	0.01
55 I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.01
56	1,1,1,2-Tetrachloroethane	0.550	0.571	-3.8	100	0.01
57 T	Chlorobenzene	0.949	0.937	1.3	96	0.00
58 T	Ethyl Benzene	1.776	1.694	4.6	91	0.00
59 T	m/p-Xylene	1.418	1.420	-0.1	96	0.00
60 T	o-Xylene	1.422	1.395	1.9	94	0.00
61 T	Styrene	0.703	0.661	6.0	87	0.00
62	Isopropylbenzene	2.126	2.131	-0.2	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.864	0.871	-0.8	98	0.00
64	n-propylbenzene	0.547	0.567	-3.7	102	0.00
65	tert-Butylbenzene	1.966	1.946	1.0	100	0.00
66 T	Benzyl Chloride	0.209	0.154	26.3	68	0.00
67	sec-Butylbenzene	2.733	2.736	-0.1	102	0.00
68 S	1-Bromo-4-Fluorobenzene	0.821	0.826	-0.6	91	0.00
69	p-Isopropyltoluene	2.354	2.359	-0.2	102	0.00
70	n-Butylbenzene	2.407	2.429	-0.9	102	0.00
71	2-Chlorotoluene	1.650	1.655	-0.3	96	0.00
72 T	4-Ethyltoluene	1.770	1.797	-1.5	99	0.00
73 T	1,3,5-Trimethylbenzene	1.546	1.558	-0.8	101	0.00
74 T	1,2,4-Trimethylbenzene	1.781	1.730	2.9	103	0.00
75 T	1,3-Dichlorobenzene	0.977	1.009	-3.3	102	0.00
76 T	1,4-Dichlorobenzene	0.972	1.006	-3.5	101	0.00
77 T	1,2-Dichlorobenzene	0.951	0.990	-4.1	104	0.00
78 T	Hexachloro-1,3-Butadiene	0.968	0.830	14.3	93	0.00
79 T	Naphthalene	1.948	2.004	-2.9	99	0.00
80 T	Naphthalene,2-methyl-	0.955	1.012	-6.0	91	0.00
81 T	1,2,4-Trichlorobenzene	0.899	0.896	0.3	93	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042215.D
 Acq On : 04 Apr 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 05 01:58:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	100	0.00
2 T	Dichlorodifluoromethane	10.000	9.517	4.8	100	0.00
3	Chlorodifluoromethane	10.000	9.363	6.4	97	0.00
4	Chloromethane	10.000	9.209	7.9	97	0.00
5 T	Vinyl Chloride	10.000	8.209	17.9	96	0.00
6 T	Bromomethane	10.000	8.685	13.1	93	0.00
7	Chloroethane	10.000	8.771	12.3	94	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.663	3.4	100	0.00
9 T	Propene	10.000	7.871	21.3	83	0.00
10 T	Heptane	10.000	8.439	15.6	87	0.02
11 T	Trichlorofluoromethane	10.000	9.520	4.8	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.826	11.7	93	0.00
13	Ethanol	10.000	4.324	56.8#	99	0.00
14 T	Bromoethene	10.000	8.536	14.6	93	0.00
15 T	Acetone	10.000	8.381	16.2	106	0.00
16 T	1,3-Butadiene	10.000	8.351	16.5	100	0.00
17	tert-Butyl alcohol	10.000	8.107	18.9	87	0.00
18 T	1,1-Dichloroethene	10.000	8.501	15.0	93	0.00
19 T	Isopropyl Alcohol	10.000	8.381	16.2	94	0.00
20 T	Methylene Chloride	10.000	7.815	21.8	93	0.00
21 T	Allyl Chloride	10.000	8.555	14.5	94	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.175	18.2	89	0.00
23 T	Vinyl Acetate	10.000	7.219	27.8	88	0.00
24 T	1,1-Dichloroethane	10.000	8.983	10.2	95	0.00
25 T	Ethyl Acetate	10.000	8.862	11.4	93	0.00
26 T	Hexane	10.000	8.821	11.8	93	0.00
27 T	Carbon Disulfide	10.000	8.670	13.3	91	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.018	19.8	84	0.00
29 T	Chloroform	10.000	9.849	1.5	105	0.00
30 T	Cyclohexane	10.000	8.604	14.0	90	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.129	8.7	95	0.00
32 T	1,1,1-Trichloroethane	10.000	9.121	8.8	104	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	95	0.00
34 T	2-Butanone	10.000	9.221	7.8	95	0.00
35 T	Carbon Tetrachloride	10.000	10.164	-1.6	108	0.00
36 T	Benzene	10.000	9.079	9.2	92	0.00
37 T	1,2-Dichloroethane	10.000	10.416	-4.2	105	0.00
38 T	Trichloroethene	10.000	9.284	7.2	98	0.00
39 T	1,2-Dichloropropane	10.000	9.090	9.1	93	0.00
40 T	1,4-Dioxane	10.000	8.160	18.4	88	0.01
41 T	Tetrahydrofuran	10.000	8.761	12.4	88	0.00
42 T	Bromodichloromethane	10.000	10.252	-2.5	99	0.01
43	Methyl Methacrylate	10.000	8.480	15.2	84	0.01
44 T	2,2,4-Trimethylpentane	10.000	9.069	9.3	90	0.01
45 T	t-1,3-Dichloropropene	10.000	8.407	15.9	82	0.02
46 T	cis-1,3-Dichloropropene	10.000	8.677	13.2	83	0.02
47 T	1,1,2-Trichloroethane	10.000	9.533	4.7	95	0.02
48 T	Dibromochloromethane	10.000	10.081	-0.8	98	0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042215.D
 Acq On : 04 Apr 2025 08:58
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 05 01:58:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	9.671	3.3	92	0.01
50 T	4-Methyl-2-Pentanone	10.000	8.136	18.6	87	0.02
51 T	2-Hexanone	10.000	8.024	19.8	85	0.02
52 T	Tetrachloroethene	10.000	8.351	16.5	91	0.01
53 T	Toluene	10.000	8.982	10.2	89	0.01
54 T	1,2-Dibromoethane	10.000	9.493	5.1	95	0.01
55 I	Chlorobenzene-d5	10.000	10.000	0.0	89	0.01
56	1,1,1,2-Tetrachloroethane	10.000	10.373	-3.7	100	0.01
57 T	Chlorobenzene	10.000	9.878	1.2	96	0.00
58 T	Ethyl Benzene	10.000	9.535	4.6	91	0.00
59 T	m/p-Xylene	20.000	20.022	-0.1	96	0.00
60 T	o-Xylene	10.000	9.808	1.9	94	0.00
61 T	Styrene	10.000	9.397	6.0	87	0.00
62	Isopropylbenzene	10.000	10.024	-0.2	97	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	10.079	-0.8	98	0.00
64	n-propylbenzene	10.000	10.364	-3.6	102	0.00
65	tert-Butylbenzene	10.000	9.898	1.0	100	0.00
66 T	Benzyl Chloride	10.000	7.388	26.1	68	0.00
67	sec-Butylbenzene	10.000	10.009	-0.1	102	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.052	-0.5	91	0.00
69	p-Isopropyltoluene	10.000	10.022	-0.2	102	0.00
70	n-Butylbenzene	10.000	10.090	-0.9	102	0.00
71	2-Chlorotoluene	10.000	10.027	-0.3	96	0.00
72 T	4-Ethyltoluene	10.000	10.151	-1.5	99	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.076	-0.8	101	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.712	2.9	103	0.00
75 T	1,3-Dichlorobenzene	10.000	10.333	-3.3	102	0.00
76 T	1,4-Dichlorobenzene	10.000	10.348	-3.5	101	0.00
77 T	1,2-Dichlorobenzene	10.000	10.410	-4.1	104	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.574	14.3	93	0.00
79 T	Naphthalene	10.000	10.287	-2.9	99	0.00
80 T	Naphthalene,2-methyl-	10.000	10.593	-5.9	91	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.975	0.3	93	0.00

(#) = Out of Range

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



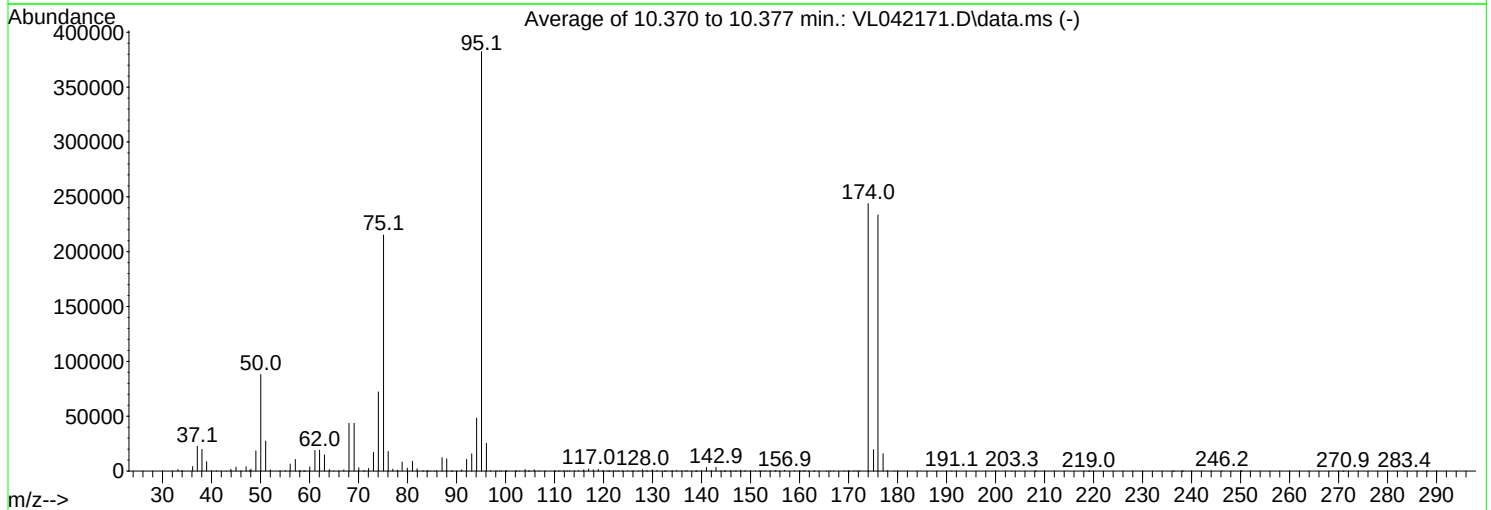
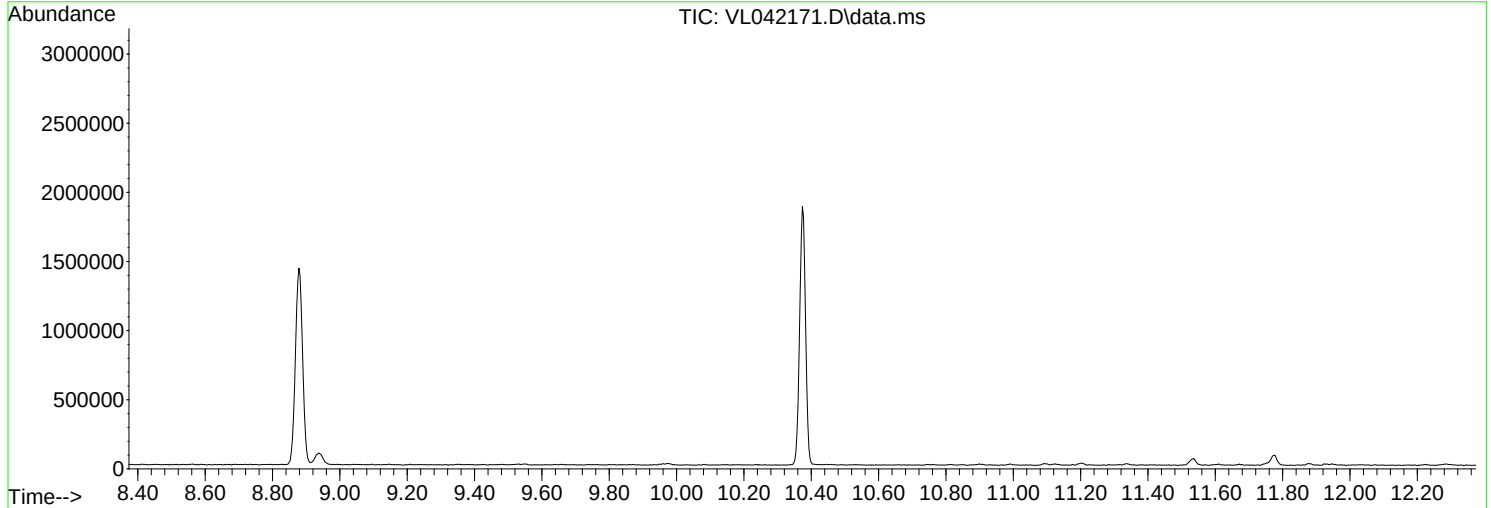
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042171.D
Acq On : 27 Mar 2025 07:44
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\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	87995	PASS
75	95	30	66	56.3	215296	PASS
95	95	100	100	100.0	382268	PASS
96	95	5	9	6.6	25383	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.8	243904	PASS
175	174	4	9	8.0	19539	PASS
176	174	93	101	95.7	233493	PASS
177	176	5	9	6.8	15877	PASS

Average of 10.370 to 10.377 min.: VL042171.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.15	1400	47.05	4001	57.95	183	67.00	1161
33.90	31	47.80	824	58.15	219	68.05	43530
36.15	4138	48.05	1739	58.80	27	69.10	43612
37.10	22759	49.05	18477	59.20	62	70.05	3072
38.05	19773	50.05	87995	60.05	3842	71.05	391
39.00	8558	51.05	27372	61.10	18723	71.30	148
41.00	270	52.00	1090	62.05	19083	72.05	2510
43.05	65	54.00	265	63.05	14806	73.05	17047
43.95	1610	55.05	633	64.05	1355	74.05	72175
45.00	3695	56.05	6441	64.95	108	75.10	215296
46.00	111	57.10	10669	65.95	87	76.05	17968

Average of 10.370 to 10.377 min.: VL042171.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.00	1756	84.70	60	96.10	25383	105.85	1266
77.90	365	85.50	69	96.95	454	106.85	241
78.00	749	85.90	91	98.20	118	108.10	78
78.90	8287	87.05	12260	98.80	119	110.00	6
79.95	2770	88.00	11240	99.15	113	110.80	163
81.00	8994	88.95	27	100.10	27	111.10	228
81.95	2105	91.05	1113	102.10	25	111.80	169
83.05	87	92.05	10732	102.80	142	112.40	56
83.30	152	93.10	15706	104.00	1429	112.60	56
83.95	3	94.10	48315	104.70	208	113.05	295
84.20	78	95.10	382268	104.95	148	114.15	45

Average of 10.370 to 10.377 min.: VL042171.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
114.90	395	123.10	107	132.40	22	141.00	3317
115.95	1131	123.85	235	132.90	67	142.00	364
116.95	1918	124.95	222	133.80	40	142.95	3384
117.90	1124	125.80	79	134.10	121	143.95	131
118.95	1429	126.10	146	134.95	750	144.60	27
119.80	193	127.10	144	135.95	199	144.95	267
120.90	128	127.95	1262	136.70	145	145.90	507
121.10	24	128.70	250	137.05	545	146.60	55
122.00	119	129.00	312	138.80	28	146.95	155
122.50	33	129.95	1135	139.10	132	147.20	55
122.90	76	130.90	590	139.95	372	148.00	938

Average of 10.370 to 10.377 min.: VL042171.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
148.80	166	156.95	650	169.10	175	179.40	63
149.05	162	158.95	474	169.90	95	191.05	70
149.95	274	160.00	21	170.15	82	203.35	48
151.00	148	160.70	162	171.10	216	208.10	24
151.80	110	160.90	233	171.55	165	219.00	22
152.25	182	161.15	346	172.30	258	236.30	19
152.95	205	161.80	102	174.00	243904	238.10	24
154.00	201	162.90	25	175.10	19539	244.05	44
155.00	271	165.50	37	176.00	233493	246.20	61
155.15	639	166.35	72	177.05	15877	250.10	21
155.90	116	167.00	175	177.90	397	270.90	18

Average of 10.370 to 10.377 min.: VL042171.D\data.ms

BFB

Modified:subtracted

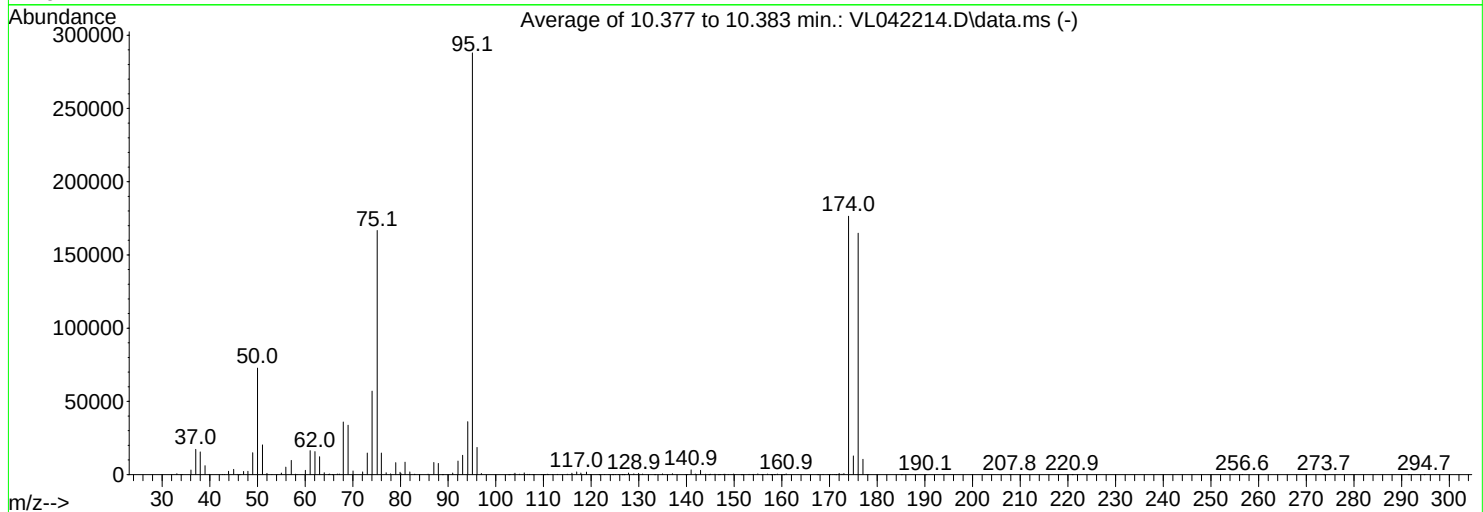
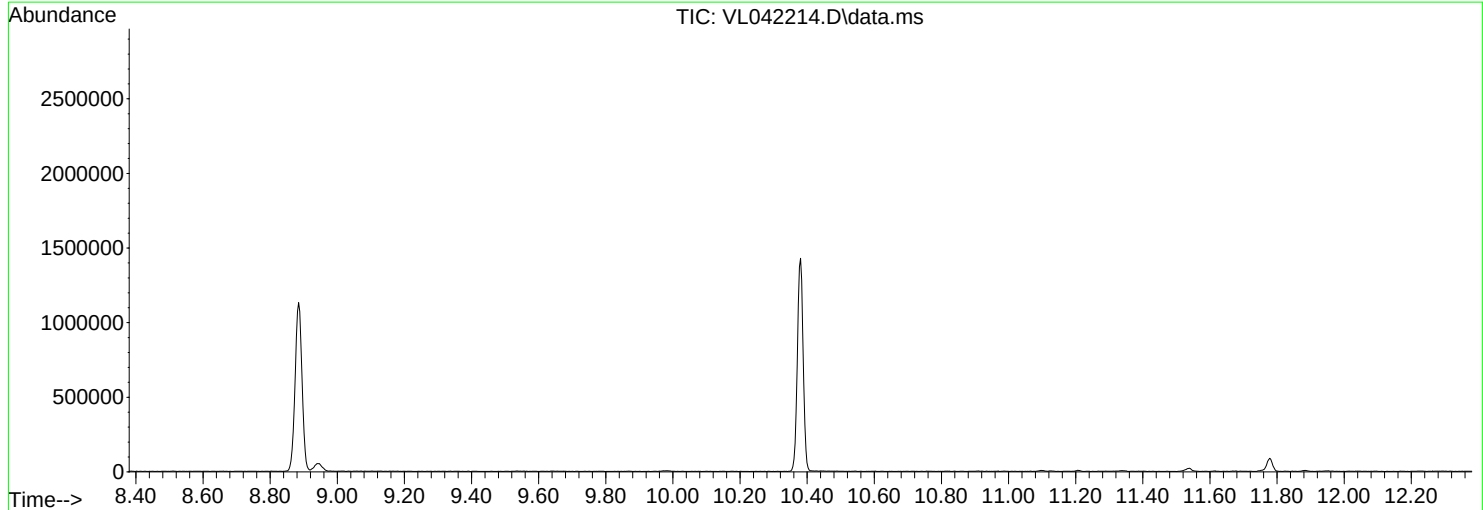
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
283.40	34						
288.00	20						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
Data File : VL042214.D
Acq On : 04 Apr 2025 08:05
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	25.3	72739	PASS
75	95	30	66	57.9	166656	PASS
95	95	100	100	100.0	287979	PASS
96	95	5	9	6.5	18594	PASS
173	174	0.00	2	0.4	773	PASS
174	95	50	120	61.2	176384	PASS
175	174	4	9	7.3	12832	PASS
176	174	93	101	93.5	164907	PASS
177	176	5	9	6.4	10500	PASS

Average of 10.377 to 10.383 min.: VL042214.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	636	45.00	3618	55.00	1089	65.15	491
33.90	48	45.90	241	55.95	5128	65.70	41
34.20	103	46.20	49	57.10	9791	66.75	41
36.05	3133	47.10	2214	58.00	290	67.15	42
37.05	17301	48.00	2323	58.30	96	68.00	35992
38.00	15484	49.00	14949	60.05	3004	69.00	33771
39.00	6130	50.00	72739	61.05	16367	70.05	2532
39.90	176	51.05	20379	62.05	15771	72.05	1827
42.70	128	52.00	898	63.05	12208	73.05	14710
43.10	122	53.05	116	64.00	1269	74.05	57029
43.95	2261	54.10	82	64.90	219	75.10	166656

Average of 10.377 to 10.383 min.: VL042214.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.00	14751	87.00	8259	103.00	100	111.00	82
77.00	1310	87.95	7647	103.80	326	111.90	119
77.95	601	88.80	20	104.00	1050	112.90	250
79.00	8179	90.95	1071	104.95	366	115.00	360
79.90	1674	92.05	9281	105.95	1246	115.95	1024
80.10	853	93.05	13242	106.70	246	116.95	1840
80.95	8508	94.10	36171	107.05	225	117.85	1074
81.95	1861	95.10	287979	107.80	30	119.00	1724
83.00	328	96.05	18594	109.65	125	119.85	88
84.00	98	96.95	725	110.20	35	121.70	22
85.80	292	102.70	29	110.80	377	122.85	88

Average of 10.377 to 10.383 min.: VL042214.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.75	101	134.95	583	145.95	342	154.05	247
124.50	30	137.05	665	146.70	20	154.95	574
125.05	112	139.90	119	147.10	155	155.80	26
125.80	80	140.20	139	147.80	216	156.05	156
126.50	20	140.95	3262	148.05	354	157.00	493
126.90	28	141.85	431	148.75	124	157.70	28
127.85	1091	142.10	74	149.90	420	157.90	134
128.95	584	142.95	2918	151.50	18	158.40	17
129.95	930	144.00	390	151.80	33	159.05	427
130.80	478	144.70	50	153.10	182	160.40	33
133.30	20	145.00	398	153.90	65	160.90	591

Average of 10.377 to 10.383 min.: VL042214.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
167.50	22	174.00	176384	273.70	19		
168.65	90	175.00	12832	291.40	21		
169.70	170	176.00	164907	294.70	56		
170.15	87	177.00	10500				
170.70	106	177.85	157				
171.00	74	178.10	87				
171.30	51	185.05	37				
171.90	467	190.10	28				
172.10	610	207.80	26				
172.60	391	220.90	17				
173.00	773	256.60	75				

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	416 Clinton St Hempstead	Date Received:	
Client Sample ID:	VL0404ABL01	SDG No.:	Q1691
Lab Sample ID:	VL0404ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042216.D	1		04/04/25 09:41	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	416 Clinton St Hempstead	Date Received:	
Client Sample ID:	VL0404ABL01	SDG No.:	Q1691
Lab Sample ID:	VL0404ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042216.D	1		04/04/25 09:41	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	191000		2.787			
540-36-3	1,4-Difluorobenzene	524000		3.962			
3114-55-4	Chlorobenzene-d5	464000		8.885			

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	416 Clinton St Hempstead	Date Received:	
Client Sample ID:	VL0404ABL01	SDG No.:	Q1691
Lab Sample ID:	VL0404ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042216.D	1		04/04/25 09:41	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL040425\
 Data File : VL042216.D
 Acq On : 04 Apr 2025 09:41
 Operator : SY/MD
 Sample : VL0404ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABL01

Quant Time: Apr 05 01:59:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	191004	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	523611	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	464191	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	364475	9.561	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.600%

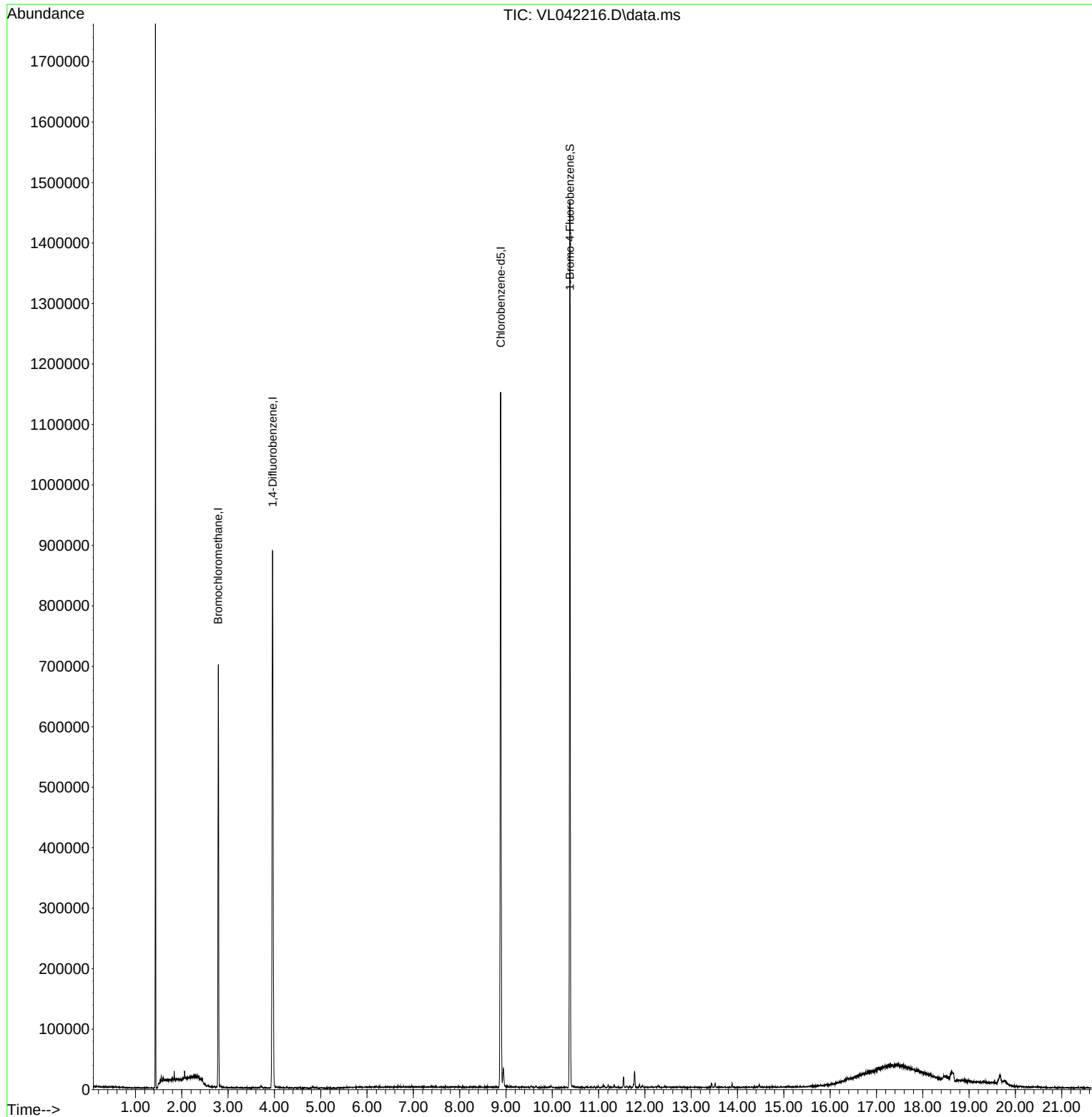
Target Compounds	Qvalue

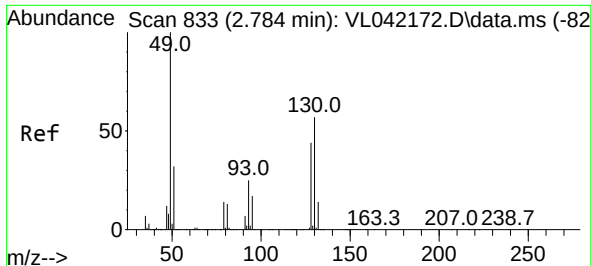
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
Data File : VL042216.D
Acq On : 04 Apr 2025 09:41
Operator : SY/MD
Sample : VL0404ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0404ABL01

Quant Time: Apr 05 01:59:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration

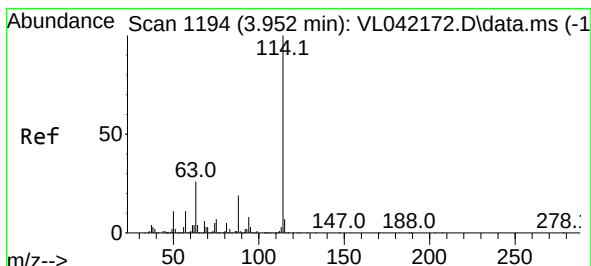
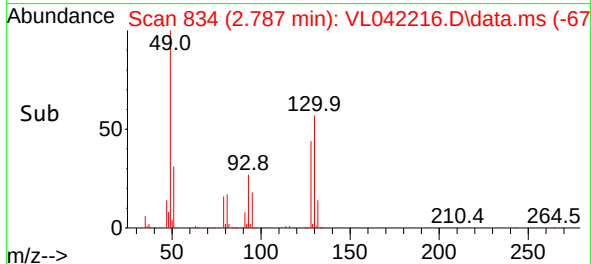
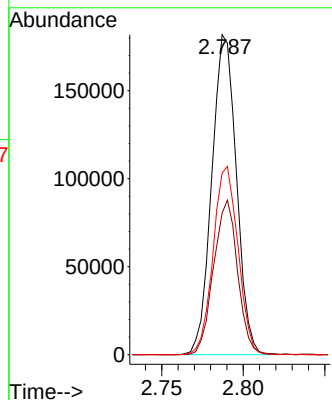
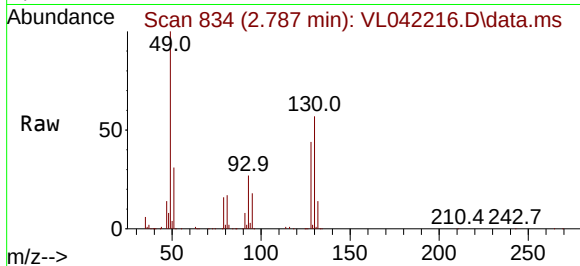




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042216.D
 Acq: 04 Apr 2025 09:41

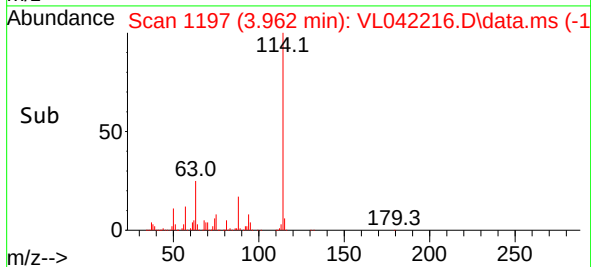
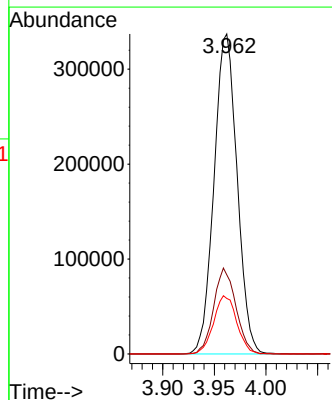
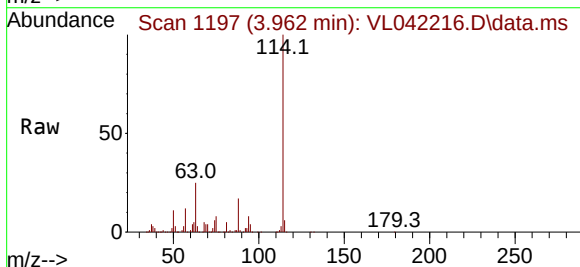
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABL01

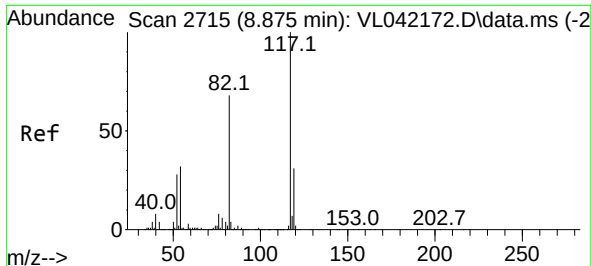
Tgt Ion: 49 Resp: 191004
 Ion Ratio Lower Upper
 49 100
 128 47.0 22.9 68.5
 130 59.5 28.8 86.4



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.010 min
 Lab File: VL042216.D
 Acq: 04 Apr 2025 09:41

Tgt Ion: 114 Resp: 523611
 Ion Ratio Lower Upper
 114 100
 63 25.9 20.7 31.1
 88 18.3 15.0 22.4

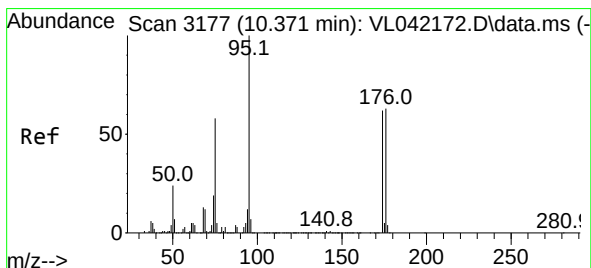
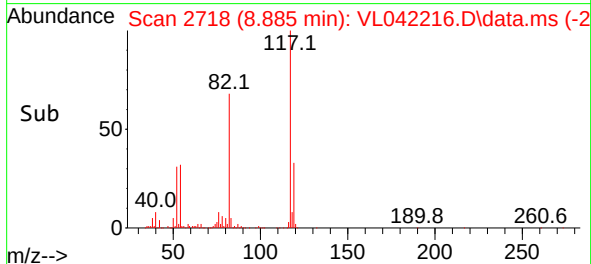
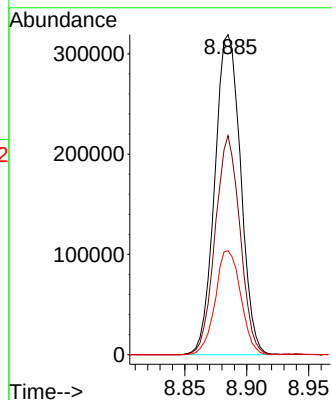
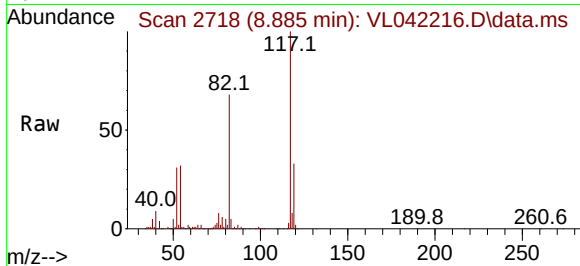




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042216.D
Acq: 04 Apr 2025 09:41

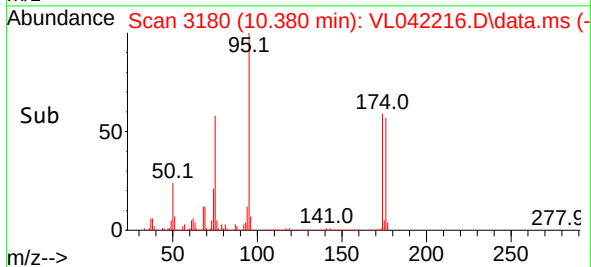
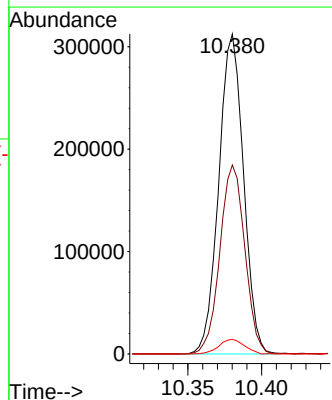
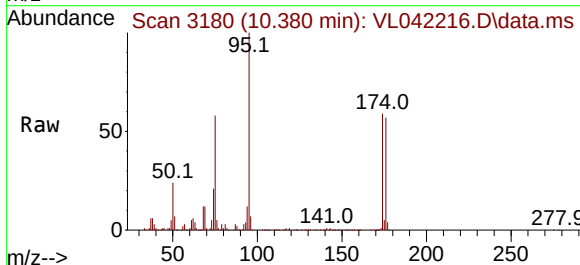
Instrument :
MSVOA_L
ClientSampleId :
VL0404ABL01

Tgt Ion:117 Resp: 464191
Ion Ratio Lower Upper
117 100
82 65.9 55.8 83.6
119 32.3 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.561 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.010 min
Lab File: VL042216.D
Acq: 04 Apr 2025 09:41

Tgt Ion: 95 Resp: 364475
Ion Ratio Lower Upper
95 100
174 59.9 50.6 76.0
175 4.8 3.8 5.6



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	416 Clinton St Hempstead	Date Received:	
Client Sample ID:	VL0404ABS01	SDG No.:	Q1691
Lab Sample ID:	VL0404ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042220.D	1		04/04/25 11:55	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	9.80	48.5		1.04	2.47	ug/m3
74-87-3	Chloromethane	9.00	18.6		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	8.20	21.0		0.030	0.080	ug/m3
74-83-9	Bromomethane	8.50	33.0		0.54	1.94	ug/m3
75-00-3	Chloroethane	8.70	23.0		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	8.80	25.9		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.70	54.5		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	8.90	68.2		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.70	67.8		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	8.30	25.2		0.58	1.52	ug/m3
142-82-5	Heptane	8.50	34.8		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.80	34.9		0.56	1.98	ug/m3
67-64-1	Acetone	8.40	19.9		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	8.50	26.5		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	8.50	30.6		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	7.90	27.4		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	8.70	34.5		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9.40	38.0		0.53	2.02	ug/m3
110-82-7	Cyclohexane	8.50	29.3		0.76	1.72	ug/m3
78-93-3	2-Butanone	9.20	27.1		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	10.3	64.8		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.00	35.7		0.36	1.98	ug/m3
67-66-3	Chloroform	10.1	49.3		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.10	49.6		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.30	43.4		0.47	2.34	ug/m3
71-43-2	Benzene	9.20	29.4		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.6	42.9		0.36	2.02	ug/m3
79-01-6	Trichloroethene	9.10	48.9		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9.10	42.1		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	10.5	70.3		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	8.40	34.4		0.37	2.05	ug/m3
108-88-3	Toluene	9.00	33.9		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	8.20	37.2		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	8.40	38.1		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	9.90	54.0		0.38	2.73	ug/m3

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	416 Clinton St Hempstead	Date Received:	
Client Sample ID:	VL0404ABS01	SDG No.:	Q1691
Lab Sample ID:	VL0404ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042220.D	1		04/04/25 11:55	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.2	86.9		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.80	75.3		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	8.50	57.6		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.1	46.5		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	9.80	42.6		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	20.4	88.6		0.91	4.34	ug/m3
95-47-6	o-Xylene	10.2	44.3		0.52	2.17	ug/m3
100-42-5	Styrene	9.50	40.5		0.47	2.13	ug/m3
75-25-2	Bromoform	9.90	102		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	10.7	73.5		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	10.3	53.3		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.4	51.1		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.0	49.2		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	10.7	64.3		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	10.7	64.3		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.8	64.9		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.20	68.3		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.30	88.5		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	8.60	19.0		0.29	1.11	ug/m3
91-20-3	Naphthalene	9.50	49.8		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	10.5	51.6		0.59	2.46	ug/m3
110-54-3	Hexane	8.80	31.0		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	8.60	26.9		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	8.70	31.4		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	8.60	35.2		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	186000			2.79		
540-36-3	1,4-Difluorobenzene	509000			3.962		
3114-55-4	Chlorobenzene-d5	457000			8.888		

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	416 Clinton St Hempstead	Date Received:	
Client Sample ID:	VL0404ABS01	SDG No.:	Q1691
Lab Sample ID:	VL0404ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042220.D	1		04/04/25 11:55	VL040425

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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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\VL040425\
 Data File : VL042220.D
 Acq On : 04 Apr 2025 11:55
 Operator : SY/MD
 Sample : VL0404ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 05 02:01:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	185704	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	509064	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	456962	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 384044 10.234 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	269944	9.845	ppbv	99
3) Chlorodifluoromethane	1.476	51	261247	9.327	ppbv	97
4) Chloromethane	1.535	50	100977	9.011	ppbv	97
5) Vinyl Chloride	1.580	62	97885	8.243	ppbv	97
6) Bromomethane	1.667	94	43311	8.529	ppbv	96
7) Chloroethane	1.706	64	38925	8.654	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	226404	9.696	ppbv	94
9) Propene	1.486	41	98481	7.671	ppbv	98
10) Heptane	4.982	43	290990	8.521	ppbv	99
11) Trichlorofluoromethane	1.878	101	258888	9.704	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	195978	8.937	ppbv	95
13) Ethanol	1.722	45	5793	4.773	ppbv	91
14) Bromoethene	1.784	108	72245	8.600	ppbv	98
15) Acetone	1.836	43	218906	8.429	ppbv	95
16) 1,3-Butadiene	1.609	39	109321	8.619	ppbv	96
17) tert-Butyl alcohol	2.043	59	268750	8.308	ppbv	99
18) 1,1-Dichloroethene	2.036	96	90266	8.805	ppbv	96
19) Isopropyl Alcohol	1.887	45	124365	8.487	ppbv	99
20) Methylene Chloride	2.062	84	75950	7.852	ppbv	96
21) Allyl Chloride	2.098	41	157041	8.574	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	103089	8.700	ppbv	98
23) Vinyl Acetate	2.464	43	85276	7.586	ppbv	97
24) 1,1-Dichloroethane	2.412	63	207336	9.440	ppbv	99
25) Ethyl Acetate	2.839	43	605091	8.977	ppbv	99
26) Hexane	2.829	57	230193	8.841	ppbv	98
27) Carbon Disulfide	2.153	76	237628	8.511	ppbv #	94
28) Methyl tert-Butyl Ether	2.444	73	137912	8.508	ppbv	95
29) Chloroform	2.852	83	384364	10.087	ppbv	99
30) Cyclohexane	3.862	84	192377	8.509	ppbv	96
31) cis-1,2-Dichloroethene	2.722	61	237721	8.993	ppbv	97
32) 1,1,1-Trichloroethane	3.370	97	396331	9.085	ppbv	99
34) 2-Butanone	2.561	43	339503	9.197	ppbv	98
35) Carbon Tetrachloride	3.768	117	410967	10.334	ppbv	96
36) Benzene	3.661	78	464642	9.207	ppbv	99
37) 1,2-Dichloroethane	3.221	62	306471	10.607	ppbv	98
38) Trichloroethene	4.554	130	190707	9.057	ppbv	96
39) 1,2-Dichloropropane	4.321	63	166615	9.065	ppbv	91
40) 1,4-Dioxane	4.587	88	85279	8.742	ppbv #	95
41) Tetrahydrofuran	3.059	42	186669	8.782	ppbv	99
42) Bromodichloromethane	4.496	83	417630	10.485	ppbv	96
43) Methyl Methacrylate	4.888	69	183270	8.578	ppbv	100
44) 2,2,4-Trimethylpentane	4.645	57	792460	9.292	ppbv	97
45) t-1,3-Dichloropropene	6.422	75	187871	8.196	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040425\
 Data File : VL042220.D
 Acq On : 04 Apr 2025 11:55
 Operator : SY/MD
 Sample : VL0404ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0404ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/07/2025
 Supervised By :Mahesh Dadoda 04/08/2025

Quant Time: Apr 05 02:01:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	235408	8.378	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	192846	9.926	ppbv	96
48) Dibromochloromethane	7.396	129	334902	10.171	ppbv	99
49) Bromoform	9.490	173	293331	9.923	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	493794	8.441	ppbv	96
51) 2-Hexanone	7.445	43	393716	8.196	ppbv #	95
52) Tetrachloroethene	8.231	164	170397	8.514	ppbv	94
53) Toluene	6.940	91	540865	9.041	ppbv	99
54) 1,2-Dibromoethane	7.658	107	265033	9.786	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.930	131	269744	10.724	ppbv	99
57) Chlorobenzene	8.927	112	437108	10.085	ppbv	97
58) Ethyl Benzene	9.361	91	791626	9.753	ppbv	99
59) m/p-Xylene	9.539	91	1322210m	20.400	ppbv	
60) o-Xylene	9.969	91	665062	10.236	ppbv	98
61) Styrene	9.875	104	304392	9.470	ppbv	99
62) Isopropylbenzene	10.545	105	1008886	10.383	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	422180	10.694	ppbv	99
64) n-propylbenzene	10.995	120	263691	10.543	ppbv	99
65) tert-Butylbenzene	11.536	119	921281	10.252	ppbv	98
66) Benzyl Chloride	11.620	91	65520	6.872	ppbv	99
67) sec-Butylbenzene	11.772	105	1296409	10.379	ppbv	99
69) p-Isopropyltoluene	11.931	119	1119576	10.410	ppbv	100
70) n-Butylbenzene	12.287	91	1149751	10.453	ppbv	99
71) 2-Chlorotoluene	10.908	91	777635	10.312	ppbv	100
72) 4-Ethyltoluene	11.128	105	850373	10.511	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	737397	10.437	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	816996	10.037	ppbv	95
75) 1,3-Dichlorobenzene	11.613	146	475804	10.658	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	473366	10.654	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	470868	10.833	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	366515	8.284	ppbv	99
79) Naphthalene	13.517	128	842258	9.460	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	310504	7.112	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	377618	9.195	ppbv	99

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

Manual Integration Report

Sequence:

VL032725

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042172.D	m/p-Xylene	SAM	3/31/2025 11:24:55 AM	MMDadoda	4/3/2025 8:05:09 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	1,4-Dioxane	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	Ethanol	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC002	VL042173.D	m/p-Xylene	SAM	3/31/2025 11:25:00 AM	MMDadoda	4/3/2025 8:05:13 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	1,4-Dioxane	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	4-Methyl-2-Pentanone	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Ethanol	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	m/p-Xylene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Methyl Methacrylate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Propene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	t-1,3-Dichloropropene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	trans-1,2-Dichloroethene	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software
VSTDICCC001	VL042174.D	Vinyl Acetate	SAM	3/31/2025 11:26:28 AM	MMDadoda	4/3/2025 8:05:22 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL032725	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042175.D	1,1,2-Trichloroethane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	1,4-Dioxane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	cis-1,3-Dichloropropene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Cyclohexane	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	m/p-Xylene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Methyl Methacrylate	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Propene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Tetrahydrofuran	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.5	VL042175.D	Trichloroethene	SAM	3/31/2025 11:26:33 AM	MMDadoda	4/3/2025 8:05:37 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	1,2-Dibromoethane	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.1	VL042176.D	Carbon Tetrachloride	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VI032725	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042176.D	Trichloroethene	SAM	3/31/2025 11:25:04 AM	MMDadoda	4/3/2025 8:05:45 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	1,1,1-Trichloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	1,1,2,2-Tetrachloroethane	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Carbon Tetrachloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Tetrachloroethene	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Trichloroethene	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC0.03	VL042177.D	Vinyl Chloride	SAM	3/31/2025 11:26:39 AM	MMDadoda	4/3/2025 8:05:59 AM	Peak Integrated by Software
VSTDICC015	VL042178.D	m/p-Xylene	SAM	3/31/2025 11:25:14 AM	MMDadoda	4/3/2025 8:06:09 AM	Peak Integrated by Software
VSTDICV010	VL042179.D	m/p-Xylene	SAM	3/31/2025 11:28:50 AM	MMDadoda	4/3/2025 8:06:14 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL040425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDC0010	VL042215.D	m/p-Xylene	SAM	4/7/2025 1:44:20 PM	MMDadoda	4/8/2025 1:54:38 AM	Peak Integrated by Software
VL0404ABS01	VL042220.D	m/p-Xylene	SAM	4/7/2025 1:44:25 PM	MMDadoda	4/8/2025 1:54:40 AM	Peak Integrated by Software
Q1691-01	VL042221.D	1,4-Dioxane	SAM	4/7/2025 1:44:59 PM	MMDadoda	4/8/2025 1:54:43 AM	Peak Integrated by Software
Q1691-01	VL042221.D	2-Hexanone	SAM	4/7/2025 1:44:59 PM	MMDadoda	4/8/2025 1:54:43 AM	Peak Integrated by Software
Q1691-01	VL042221.D	Carbon Tetrachloride	SAM	4/7/2025 1:44:59 PM	MMDadoda	4/8/2025 1:54:43 AM	Peak Integrated by Software
Q1691-01	VL042221.D	Chlorodifluoromethane	SAM	4/7/2025 1:44:59 PM	MMDadoda	4/8/2025 1:54:43 AM	Peak Integrated by Software
Q1691-01	VL042221.D	m/p-Xylene	SAM	4/7/2025 1:44:59 PM	MMDadoda	4/8/2025 1:54:43 AM	Peak Integrated by Software
Q1691-01	VL042221.D	Tetrahydrofuran	SAM	4/7/2025 1:44:59 PM	MMDadoda	4/8/2025 1:54:43 AM	Peak Integrated by Software
Q1691-01DUP	VL042222.D	1,4-Dioxane	SAM	4/7/2025 1:44:30 PM	MMDadoda	4/8/2025 1:54:46 AM	Peak Integrated by Software
Q1691-01DUP	VL042222.D	2-Hexanone	SAM	4/7/2025 1:44:30 PM	MMDadoda	4/8/2025 1:54:46 AM	Peak Integrated by Software
Q1691-01DUP	VL042222.D	Chlorodifluoromethane	SAM	4/7/2025 1:44:30 PM	MMDadoda	4/8/2025 1:54:46 AM	Peak Integrated by Software
Q1691-01DUP	VL042222.D	m/p-Xylene	SAM	4/7/2025 1:44:30 PM	MMDadoda	4/8/2025 1:54:46 AM	Peak Integrated by Software
Q1691-01DUP	VL042222.D	Tetrachloroethene	SAM	4/7/2025 1:44:30 PM	MMDadoda	4/8/2025 1:54:46 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL040425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1691-01DUP	VL042222.D	Tetrahydrofuran	SAM	4/7/2025 1:44:30 PM	MMDadoda	4/8/2025 1:54:46 AM	Peak Integrated by Software
Q1691-01DUP	VL042222.D	Toluene	SAM	4/7/2025 1:44:30 PM	MMDadoda	4/8/2025 1:54:46 AM	Peak Integrated by Software
Q1691-02	VL042224.D	2,2,4-Trimethylpentane	SAM	4/7/2025 1:45:09 PM	MMDadoda	4/8/2025 1:54:51 AM	Peak Integrated by Software
Q1691-02	VL042224.D	Benzene	SAM	4/7/2025 1:45:09 PM	MMDadoda	4/8/2025 1:54:51 AM	Peak Integrated by Software
Q1691-02	VL042224.D	Chlorodifluoromethane	SAM	4/7/2025 1:45:09 PM	MMDadoda	4/8/2025 1:54:51 AM	Peak Integrated by Software
Q1691-02	VL042224.D	m/p-Xylene	SAM	4/7/2025 1:45:09 PM	MMDadoda	4/8/2025 1:54:51 AM	Peak Integrated by Software
Q1691-02	VL042224.D	Tetrachloroethene	SAM	4/7/2025 1:45:09 PM	MMDadoda	4/8/2025 1:54:51 AM	Peak Integrated by Software
Q1691-02	VL042224.D	Tetrahydrofuran	SAM	4/7/2025 1:45:09 PM	MMDadoda	4/8/2025 1:54:51 AM	Peak Integrated by Software
Q1691-02	VL042224.D	Toluene	SAM	4/7/2025 1:45:09 PM	MMDadoda	4/8/2025 1:54:51 AM	Peak Integrated by Software
Q1691-03	VL042225.D	2,2,4-Trimethylpentane	SAM	4/7/2025 1:44:39 PM	MMDadoda	4/8/2025 1:54:53 AM	Peak Integrated by Software
Q1691-03	VL042225.D	Chlorodifluoromethane	SAM	4/7/2025 1:44:39 PM	MMDadoda	4/8/2025 1:54:53 AM	Peak Integrated by Software
Q1691-03	VL042225.D	Styrene	SAM	4/7/2025 1:44:39 PM	MMDadoda	4/8/2025 1:54:53 AM	Peak Integrated by Software
Q1691-03	VL042225.D	Tetrachloroethene	SAM	4/7/2025 1:44:39 PM	MMDadoda	4/8/2025 1:54:53 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL040425

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1691-03	VL042225.D	Tetrahydrofuran	SAM	4/7/2025 1:44:39 PM	MMDadoda	4/8/2025 1:54:53 AM	Peak Integrated by Software
Q1691-04	VL042226.D	Carbon Tetrachloride	SAM	4/7/2025 1:44:35 PM	MMDadoda	4/8/2025 1:54:56 AM	Peak Integrated by Software
Q1691-04	VL042226.D	Chlorodifluoromethane	SAM	4/7/2025 1:44:35 PM	MMDadoda	4/8/2025 1:54:56 AM	Peak Integrated by Software
Q1691-04	VL042226.D	m/p-Xylene	SAM	4/7/2025 1:44:35 PM	MMDadoda	4/8/2025 1:54:56 AM	Peak Integrated by Software
Q1691-04	VL042226.D	Toluene	SAM	4/7/2025 1:44:35 PM	MMDadoda	4/8/2025 1:54:56 AM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042171.D	27 Mar 2025 07:44	SY/MD	Ok
2	VSTDICCC010	VL042172.D	27 Mar 2025 08:26	SY/MD	Ok,M
3	VSTDICCC002	VL042173.D	27 Mar 2025 08:59	SY/MD	Ok,M
4	VSTDICCC001	VL042174.D	27 Mar 2025 09:30	SY/MD	Ok,M
5	VSTDICCC0.5	VL042175.D	27 Mar 2025 10:01	SY/MD	Ok,M
6	VSTDICCC0.1	VL042176.D	27 Mar 2025 10:32	SY/MD	Ok,M
7	VSTDICCC0.03	VL042177.D	27 Mar 2025 11:03	SY/MD	Ok,M
8	VSTDICCC015	VL042178.D	27 Mar 2025 11:36	SY/MD	Ok,M
9	VSTDICV010	VL042179.D	27 Mar 2025 12:23	SY/MD	Ok,M
10	VL0327ABL01	VL042180.D	27 Mar 2025 13:50	SY/MD	Ok
11	VL0327ABS01	VL042181.D	27 Mar 2025 14:39	SY/MD	Ok,M
12	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41	SY/MD	Ok
13	Q1649-01	VL042183.D	27 Mar 2025 17:13	SY/MD	Not Ok
14	Q1649-02	VL042184.D	27 Mar 2025 17:45	SY/MD	Not Ok
15	Q1669-01	VL042185.D	27 Mar 2025 18:22	SY/MD	Dilution
16	Q1669-02	VL042186.D	27 Mar 2025 18:59	SY/MD	Ok,M
17	Q1669-03	VL042187.D	27 Mar 2025 19:36	SY/MD	Ok,M
18	Q1669-04	VL042188.D	27 Mar 2025 20:12	SY/MD	Ok,M
19	Q1669-09	VL042189.D	27 Mar 2025 20:48	SY/MD	Ok,M
20	Q1669-09DUP	VL042190.D	27 Mar 2025 21:24	SY/MD	Ok,M
21	Q1669-05	VL042191.D	27 Mar 2025 21:57	SY/MD	Not Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1669-07DL	VL042192.D	27 Mar 2025 22:29	SY/MD	Ok,M
23	Q1669-08	VL042193.D	27 Mar 2025 23:01	SY/MD	Not Ok
24	VIBLK	VL042194.D	27 Mar 2025 23:34	SY/MD	Ok
25	Q1669-01DL	VL042195.D	28 Mar 2025 00:06	SY/MD	Ok,M
26	Q1669-01DUP	VL042196.D	28 Mar 2025 00:44	SY/MD	Ok,M
27	Q1669-05	VL042197.D	28 Mar 2025 01:20	SY/MD	Ok,M
28	Q1669-07	VL042198.D	28 Mar 2025 01:57	SY/MD	Dilution
29	Q1669-08	VL042199.D	28 Mar 2025 02:33	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL040425

Review By	Semsettin Yesilyurt	Review On	4/7/2025 1:45:32 PM		
Supervise By	Maresh Dadoda	Supervise On	4/8/2025 1:55:16 AM		
SubDirectory	VL040425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2591			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2591			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042214.D	04 Apr 2025 08:05	SY/MD	Ok
2	VSTDCCC010	VL042215.D	04 Apr 2025 08:58	SY/MD	Ok,M
3	VL0404ABL01	VL042216.D	04 Apr 2025 09:41	SY/MD	Ok
4	QC040125 CAN 10258	VL042217.D	04 Apr 2025 10:13	SY/MD	Ok
5	QC040325 CAN 10401	VL042218.D	04 Apr 2025 10:44	SY/MD	Ok
6	QC040325 CAN 10300	VL042219.D	04 Apr 2025 11:16	SY/MD	Ok
7	VL0404ABS01	VL042220.D	04 Apr 2025 11:55	SY/MD	Ok,M
8	Q1691-01	VL042221.D	04 Apr 2025 12:46	SY/MD	Ok,M
9	Q1691-01DUP	VL042222.D	04 Apr 2025 13:20	SY/MD	Ok,M
10	Q1691-01DL	VL042223.D	04 Apr 2025 13:51	SY/MD	Not Ok
11	Q1691-02	VL042224.D	04 Apr 2025 14:26	SY/MD	Ok,M
12	Q1691-03	VL042225.D	04 Apr 2025 15:50	SY/MD	Ok,M
13	Q1691-04	VL042226.D	04 Apr 2025 16:24	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M HP Processing Method VL032725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2589
Initial Calibration Stds	AP2593,AP2595,AP2596
CCC	AP2593
Internal Standard/PEM	AP2589
ICV/I.BLK	AP2594
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042171.D	27 Mar 2025 07:44		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042172.D	27 Mar 2025 08:26		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042173.D	27 Mar 2025 08:59		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042174.D	27 Mar 2025 09:30		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042175.D	27 Mar 2025 10:01		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042176.D	27 Mar 2025 10:32		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042177.D	27 Mar 2025 11:03		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042178.D	27 Mar 2025 11:36		SY/MD	Ok,M
9	VSTDICV010	ICVVL032725	VL042179.D	27 Mar 2025 12:23		SY/MD	Ok,M
10	VL0327ABL01	VL0327ABL01	VL042180.D	27 Mar 2025 13:50		SY/MD	Ok
11	VL0327ABS01	VL0327ABS01	VL042181.D	27 Mar 2025 14:39		SY/MD	Ok,M
12	QC032625 CAN 10448	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41		SY/MD	Ok
13	Q1649-01	SV1	VL042183.D	27 Mar 2025 17:13	rerun 4X,not required	SY/MD	Not Ok
14	Q1649-02	SV2	VL042184.D	27 Mar 2025 17:45	rerun 4X,not required	SY/MD	Not Ok
15	Q1669-01	IA-B9-3-3262025	VL042185.D	27 Mar 2025 18:22	Need 5x	SY/MD	Dilution
16	Q1669-02	IA-B9-2-3262025	VL042186.D	27 Mar 2025 18:59		SY/MD	Ok,M
17	Q1669-03	IA-B9-1-3262025	VL042187.D	27 Mar 2025 19:36		SY/MD	Ok,M
18	Q1669-04	AA-2-3252025	VL042188.D	27 Mar 2025 20:12		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Mahesh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2589				
Initial Calibration Stds	AP2593,AP2595,AP2596				
CCC	AP2593				
Internal Standard/PEM	AP2589				
ICV/I.BLK	AP2594				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1669-09	AA-3-3252025	VL042189.D	27 Mar 2025 20:48		SY/MD	Ok,M
20	Q1669-09DUP	AA-3-3252025DUP	VL042190.D	27 Mar 2025 21:24		SY/MD	Ok,M
21	Q1669-05	SSSG-B16-3-3262025	VL042191.D	27 Mar 2025 21:57	Need straight run	SY/MD	Not Ok
22	Q1669-07DL	SSSG-B16-1-3262025	VL042192.D	27 Mar 2025 22:29		SY/MD	Ok,M
23	Q1669-08	SSSG-B16-2-3262025	VL042193.D	27 Mar 2025 23:01	Need straight run	SY/MD	Not Ok
24	VIBLK	VIBLK	VL042194.D	27 Mar 2025 23:34		SY/MD	Ok
25	Q1669-01DL	IA-B9-3-3262025DL	VL042195.D	28 Mar 2025 00:06		SY/MD	Ok,M
26	Q1669-01DUP	IA-B9-3-3262025DUP	VL042196.D	28 Mar 2025 00:44		SY/MD	Ok,M
27	Q1669-05	SSSG-B16-3-3262025	VL042197.D	28 Mar 2025 01:20		SY/MD	Ok,M
28	Q1669-07	SSSG-B16-1-3262025	VL042198.D	28 Mar 2025 01:57	Need 10X	SY/MD	Dilution
29	Q1669-08	SSSG-B16-2-3262025	VL042199.D	28 Mar 2025 02:33		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL040425

Review By	Semsettin Yesilyurt	Review On	4/7/2025 1:45:32 PM
Supervise By	Maresh Dadoda	Supervise On	4/8/2025 1:55:16 AM
SubDirectory	VL040425	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL032725AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2591		
Initial Calibration Stds	AP2593,AP2595,AP2596		
CCC	AP2593		
Internal Standard/PEM	AP2591		
ICV/I.BLK	AP2594		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042214.D	04 Apr 2025 08:05		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042215.D	04 Apr 2025 08:58		SY/MD	Ok,M
3	VL0404ABL01	VL0404ABL01	VL042216.D	04 Apr 2025 09:41		SY/MD	Ok
4	QC040125 CAN 10258	QC040125 CAN 10258	VL042217.D	04 Apr 2025 10:13		SY/MD	Ok
5	QC040325 CAN 10401	QC040325 CAN 10401	VL042218.D	04 Apr 2025 10:44		SY/MD	Ok
6	QC040325 CAN 10300	QC040325 CAN 10300	VL042219.D	04 Apr 2025 11:16		SY/MD	Ok
7	VL0404ABS01	VL0404ABS01	VL042220.D	04 Apr 2025 11:55		SY/MD	Ok,M
8	Q1691-01	IA2R	VL042221.D	04 Apr 2025 12:46		SY/MD	Ok,M
9	Q1691-01DUP	IA2RDUP	VL042222.D	04 Apr 2025 13:20		SY/MD	Ok,M
10	Q1691-01DL	IA2RDL	VL042223.D	04 Apr 2025 13:51	Not required	SY/MD	Not Ok
11	Q1691-02	IA3	VL042224.D	04 Apr 2025 14:26		SY/MD	Ok,M
12	Q1691-03	IA3DUP	VL042225.D	04 Apr 2025 15:50		SY/MD	Ok,M
13	Q1691-04	OA1	VL042226.D	04 Apr 2025 16:24		SY/MD	Ok,M

M : Manual Integration