



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2501014				Courier : FGALDUN				<u>1</u> of <u>2</u> COCs																											
Client ID : GFEL01 Project ID : 182 Ralph Ave, Brooklyn, NY				Sampler Name(s) : F				Analysis				Matrix																											
Customer GFE LLC Name : Address : 58 Nokomis Ave				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																															
				Phone Number : 646-542-3465																																			
				Fax Number : 973-334-1692																																			
				Site Details: 21-36 Utopia Parkway Fushun, NY																																			
City : Lake Hiawatha				Analysis Turnaround Time				RESULTS ONLY PDF																															
State : NJ				Standard : 10 business days OR																																			
Zip Code : 07034				Data Package Type :																																			
Country :				Rush (Specify): Days				EDD Type :																															
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor Ambient Air	Soil Gas																								
IA1	11/17/25	12:01	2:01	30	5	60	25	-30	-5.9	10185	10607	6 L	50	VL041614.D	1																								
<table border="1"> <tr> <th colspan="5">Temperature (Fahrenheit)</th> </tr> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> <td></td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>																Temperature (Fahrenheit)						Ambient	Maximum	Minimum		Start					Stop					GC/MS Analyst Signature (TO-15)			
Temperature (Fahrenheit)																																							
	Ambient	Maximum	Minimum																																				
Start																																							
Stop																																							
<table border="1"> <tr> <th colspan="5">Pressure (Inches of Hg)</th> </tr> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> <td></td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>																Pressure (Inches of Hg)						Ambient	Maximum	Minimum		Start					Stop					** Submittal of this COC indicates approval of the analysis based on existing conditions. Report only: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.			
Pressure (Inches of Hg)																																							
	Ambient	Maximum	Minimum																																				
Start																																							
Stop																																							
Special Instructions/QC Requirements & Comments :																																							
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.0</u>																																							
Sampling site (State):																																							
Quick Connector required : <u>NO</u>																																							
Canisters Shipped by: <u>SGM</u>				Date/Time: <u>11/14/25</u>				Canisters Received by: <u>SGM</u>				Date/Time: <u>11/20/25 0700</u>																											
Samples Relinquished by: <u>SGM</u>				Date/Time: <u>11/19/25</u>				Received by:				Date/Time:																											
Relinquished by:				Date/Time:				Received by:				Date/Time:																											

Client Contact Information				Bottle Order ID : B2501014				Courier : FGALDUN				2 of 2 COCs																	
Client ID : GFEL01 Project ID : 182 Ralph Ave, Brooklyn NY				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix																	
Customer : GFE LLC Name : 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: 2136 UTOPIA PARKWAY FLUSHING, NY																									
Analysis Turnaround Time				Standard : 10 business days OR				Data Package Type RESULTS ONLY																					
Rush (Specify): _____ Days				EDD Type : PDF																									
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IAZ	1/17/25	10:56	12:56	OVER 30	5	50	52	30	-27	10528	10323	6 L	50	VL041614.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) [Signature]							
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	Ambient	Maximum	Minimum																										
Start																													
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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: 01/14/25				Canisters Received by: [Signature]				Date/Time: 1/20/25 0700				B2501014 - 1													
Samples Relinquished by: [Signature]				Date/Time: 1/18/25				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	



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

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: Chemtech		Location: 284 Sheffield Street, Mountainside, NJ 7092	
0006E		Title: Sample Custodian	
Field Sample Seal No. Q1138		Date Broken: 1/20/2025	
Case No.: 21-36 Utopia Parkway, FLU		Military Time Seal Broken: 07:00:00	
		Analytical Parameter/Fraction: MOCMS Group 3	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1138-01	IA1		
Q1138-02	IA2		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
1/20	1110	Signature		Signature		
		Printed Name	George W.	Printed Name	Sample Custodian	
		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: Q1138	OrderDate: 1/20/2025 10:43:00 AM
Client: GFE LLC	Project: 21-36 Utopia Parkway, Flushing NY
Contact: Frank Galdun	Location: E11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1138-01	IA1	Air	VOCMS Group3	TO-15	01/17/25		01/20/25	01/20/25
Q1138-02	IA2	Air	VOCMS Group3	TO-15	01/17/25		01/20/25	01/20/25



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

Hit Summary Sheet
SW-846

SDG No.: Q1138
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	IA1							
Q1138-01	IA1	Air	Tetrachloroethene	13.6		0.14	0.20	ug/m3
			Total Voc :	13.6				
			Total Concentration:	13.6				
Client ID:	IA2							
Q1138-02	IA2	Air	Tetrachloroethene	3.80		0.14	0.20	ug/m3
			Total Voc :	3.80				
			Total Concentration:	3.80				



QC SUMMARY

Surrogate Summary

SDG No.: Q1138

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1138-01	IA1	1-Bromo-4-Fluorobenzene	10	9.79	98	65	135
Q1138-02	IA2	1-Bromo-4-Fluorobenzene	10	9.84	98	65	135
Q1138-02DUP	IA2DUP	1-Bromo-4-Fluorobenzene	10	9.78	98	65	135
VL0120ABL02	VL0120ABL02	1-Bromo-4-Fluorobenzene	10	9.89	99	65	135
VL0120ABS01	VL0120ABS01	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1138

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL041920.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0120ABS01	Vinyl Chloride	10	10.3	ppbv	103			70	130	
	1,1-Dichloroethene	10	9.80	ppbv	98			70	130	
	cis-1,2-Dichloroethene	10	10.0	ppbv	100			70	130	
	1,1,1-Trichloroethane	10	11.1	ppbv	111			70	130	
	Trichloroethene	10	10.5	ppbv	105			70	130	
	Tetrachloroethene	10	10.2	ppbv	102			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q1138-02DUP	Q1138-02
Client Id :	IA2DUP	IA2
DF :	1	1
Datafile :	VL041939.D	VL041929.D
Anal Date & Time :	01/21/2025 09:14	01/20/2025 20:26

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	0.62	0.56	10.2
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0120ABL02

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1138

SAS No.: Q1138 SDG NO.: Q1138

Lab File ID: VL041919.D

Lab Sample ID: VL0120ABL02

Date Analyzed: 01/20/2025

Time Analyzed: 14:09

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0120ABS01	VL0120ABS01	VL041920.D	01/20/2025
IA1	Q1138-01	VL041928.D	01/20/2025
IA2	Q1138-02	VL041929.D	01/20/2025
IA2DUP	Q1138-02DUP	VL041939.D	01/21/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1138 SAS No.: Q1138 SDG NO.: Q1138
Lab File ID: VL041887.D BFB Injection Date: 01/14/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:50
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	56.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	60
175	4.0 - 9.0% of mass 174	4.9 (8.2) 1
176	93.0 - 101.0% of mass 174	58.1 (96.8) 1
177	5.0 - 9.0% of mass 176	3.9 (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	VL041889.D	01/14/2025	12:55
VSTDICC002	VSTDICC002	VL041890.D	01/14/2025	13:28
VSTDICC001	VSTDICC001	VL041891.D	01/14/2025	13:59
VSTDICC0.5	VSTDICC0.5	VL041892.D	01/14/2025	14:30
VSTDICC0.1	VSTDICC0.1	VL041893.D	01/14/2025	15:01
VSTDICC0.03	VSTDICC0.03	VL041894.D	01/14/2025	15:32
VSTDICC015	VSTDICC015	VL041895.D	01/14/2025	16:05

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1138 SAS No.: Q1138 SDG NO.: Q1138
Lab File ID: VL041916.D BFB Injection Date: 01/20/2025
Instrument ID: MSVOA_L BFB Injection Time: 11:53
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	23.4
75	30.0 - 66.0% of mass 95	56
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	0.6 (1) 1
174	50.0 - 120.0% of mass 95	60.3
175	4.0 - 9.0% of mass 174	4.4 (7.3) 1
176	93.0 - 101.0% of mass 174	56.4 (93.5) 1
177	5.0 - 9.0% of mass 176	3.9 (6.9) 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	VL041917.D	01/20/2025	12:25
VL0120ABL02	VL0120ABL02	VL041919.D	01/20/2025	14:09
VL0120ABS01	VL0120ABS01	VL041920.D	01/20/2025	14:49
IA1	Q1138-01	VL041928.D	01/20/2025	19:51
IA2	Q1138-02	VL041929.D	01/20/2025	20:26
IA2DUP	Q1138-02DUP	VL041939.D	01/21/2025	09:14

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1138 SAS No.: Q1138 SDG NO.: Q1138
 Lab File ID: VL041917.D Date Analyzed: 01/20/2025
 Instrument ID: MSVOA_L Time Analyzed: 12:25
 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	141673	2.78	411747	3.96	366617	8.88
UPPER LIMIT	198342	3.11	576446	4.29	513264	9.21
LOWER LIMIT	85003.8	2.45	247048	3.63	219970	8.55
EPA SAMPLE NO.						
IA1	134088	2.78	374281	3.95	329727	8.87
IA2	140403	2.78	383832	3.95	331576	8.88
IA2DUP	137672	2.78	368423	3.95	311119	8.87
VL0120ABL02	137119	2.78	393995	3.96	341266	8.88
VL0120ABS01	135102	2.78	387101	3.95	349589	8.88

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:	01/17/25
Project:	21-36 Utopia Parkway, Flushing NY	Date Received:	01/20/25
Client Sample ID:	IA1	SDG No.:	Q1138
Lab Sample ID:	Q1138-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041928.D	1		01/20/25 19:51	VL012025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	2.00	13.6		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	134000			2.781		
540-36-3	1,4-Difluorobenzene	374000			3.949		
3114-55-4	Chlorobenzene-d5	330000			8.872		

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\VL012025\
 Data File : VL041928.D
 Acq On : 20 Jan 2025 19:51
 Operator : SY/MD
 Sample : Q1138-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jan 21 03:07:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/21/2025
 Supervised By : Mahesh Dadoda 01/21/2025

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

Internal Standards						
1) Bromochloromethane	2.781	49	134088	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	374281	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.872	117	329727	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	254361	9.794	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	8708	0.477	ppbv	94
3) Chlorodifluoromethane	1.473	51	3510m	0.183	ppbv	
4) Chloromethane	1.531	50	3358	0.489	ppbv	92
9) Propene	1.483	41	5923m	0.751	ppbv	
11) Trichlorofluoromethane	1.874	101	4270	0.225	ppbv	93
13) Ethanol	1.719	45	38927	67.425	ppbv	89
15) Acetone	1.832	43	504884	31.349	ppbv	100
19) Isopropyl Alcohol	1.884	45	13931	1.459	ppbv #	1
20) Methylene Chloride	2.059	84	5111	0.803	ppbv	93
26) Hexane	2.819	57	6758	0.393	ppbv #	75
34) 2-Butanone	2.557	43	14051	0.590	ppbv	99
35) Carbon Tetrachloride	3.748	117	1550m	0.066	ppbv	
36) Benzene	3.648	78	7177	0.209	ppbv	93
52) Tetrachloroethene	8.218	164	23885	2.007	ppbv	96
53) Toluene	6.927	91	40543	1.084	ppbv	99

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

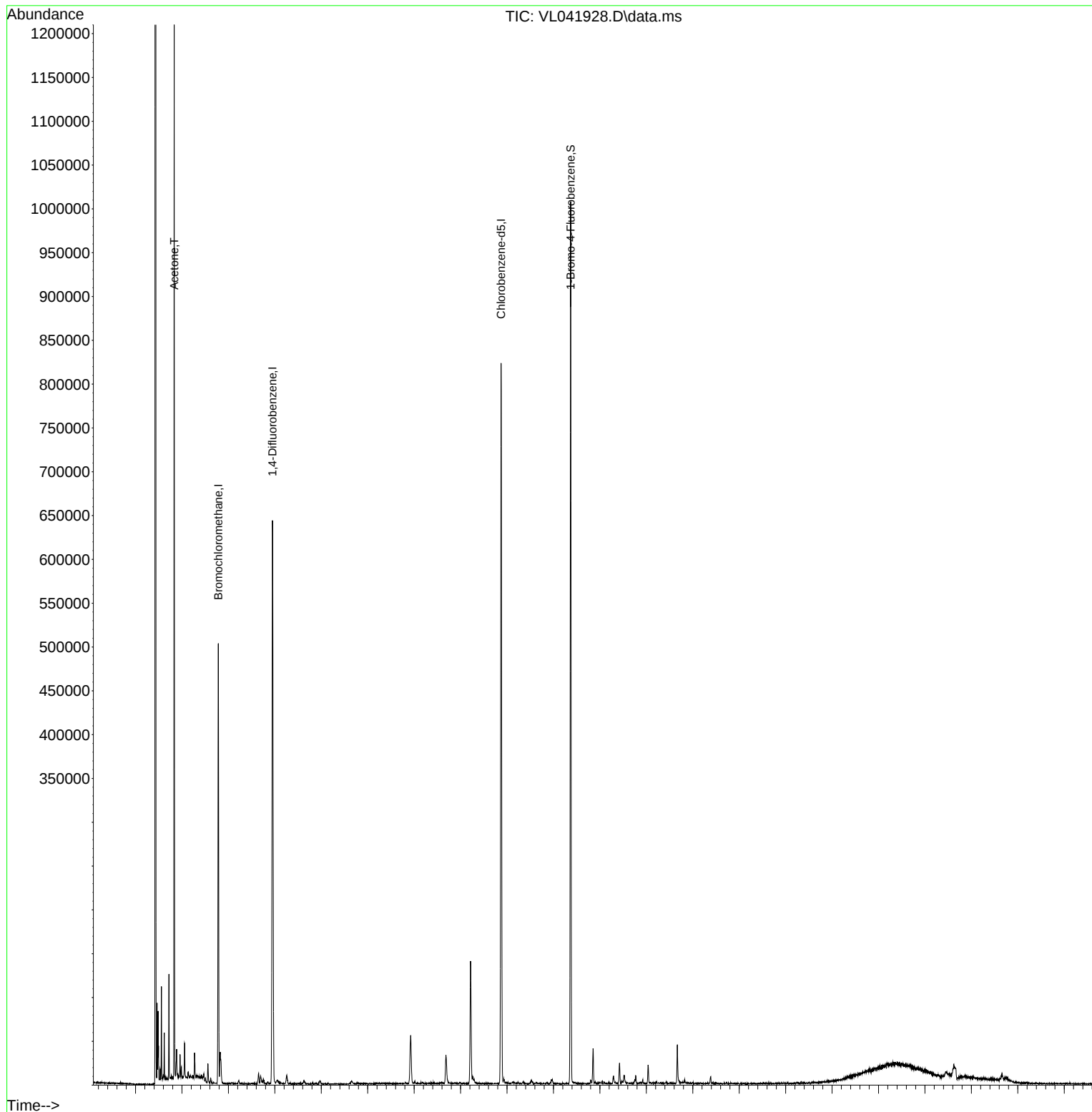
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041928.D
Acq On : 20 Jan 2025 19:51
Operator : SY/MD
Sample : Q1138-01
Misc : 400mL/MSVOA_L
ALS Vial : 12 Sample Multiplier: 1

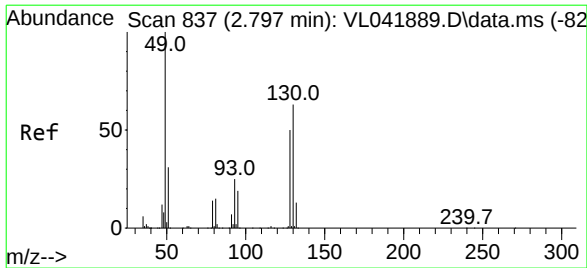
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Jan 21 03:07:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

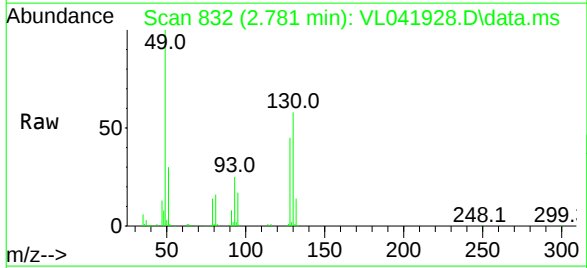
Reviewed By : Semsettin Yesilyurt 01/21/2025
Supervised By : Mahesh Dadoda 01/21/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 831
Delta R.T. -0.016 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

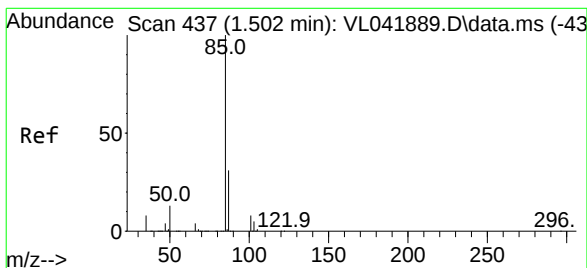
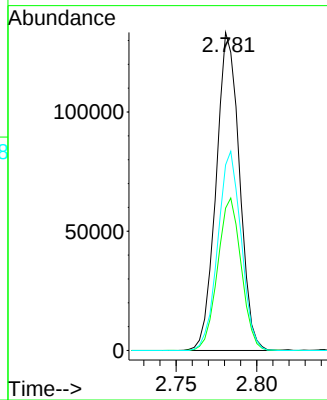
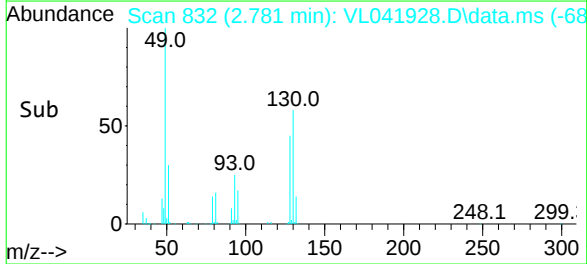
Instrument :
MSVOA_L
ClientSampleId :
IA1



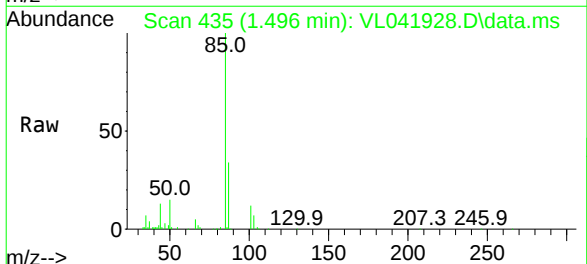
Tgt Ion: 49 Resp: 134088
Ion Ratio Lower Upper
49 100
128 48.5 24.3 73.0
130 62.6 31.1 93.2

Manual Integrations
APPROVED

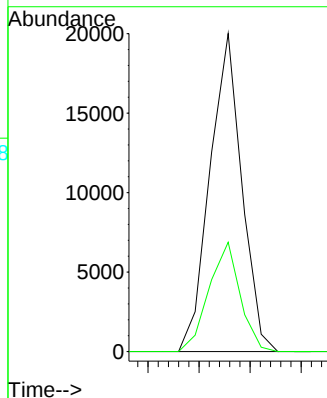
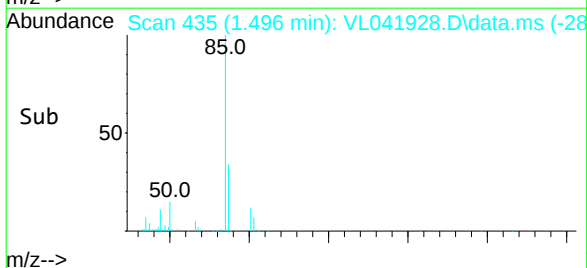
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

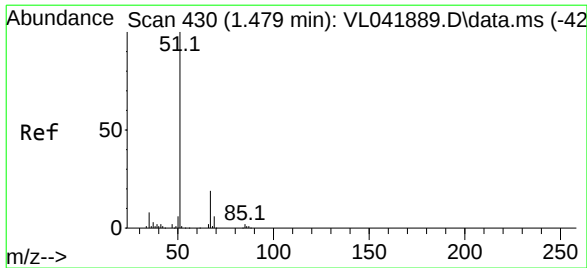


#2
Dichlorodifluoromethane
Concen: 0.477 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51



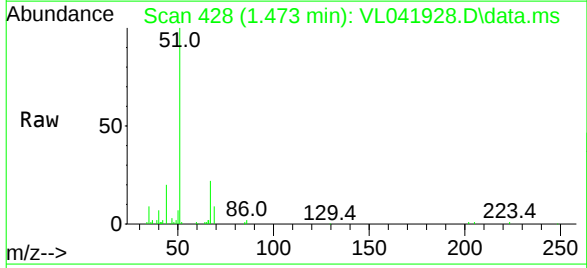
Tgt Ion: 85 Resp: 8708
Ion Ratio Lower Upper
85 100
87 34.4 24.9 37.3





#3
Chlorodifluoromethane
Concen: 0.183 ppbv m
RT: 1.473 min Scan# 42
Delta R.T. -0.006 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

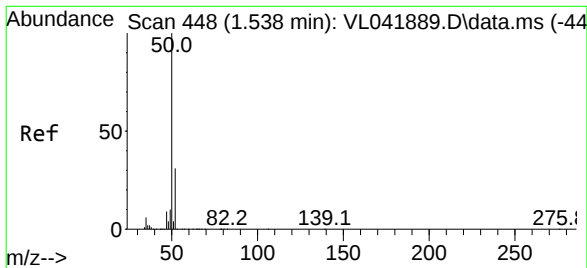
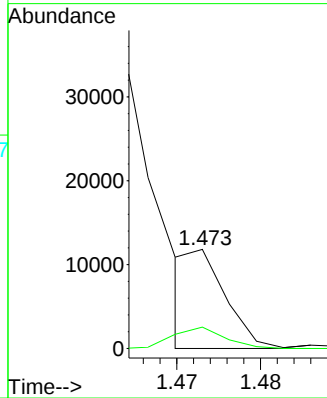
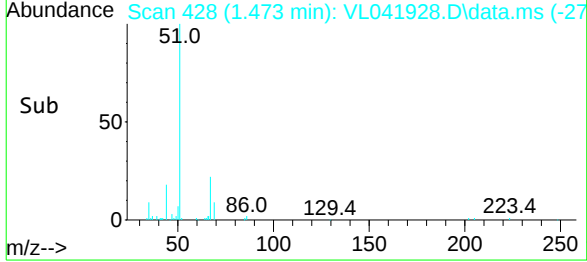
Instrument :
MSVOA_L
ClientSampleId :
IA1



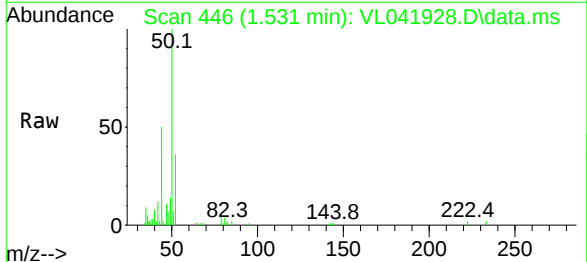
Tgt Ion: 51 Resp: 3510
Ion Ratio Lower Upper
51 100
67 31.3 15.0 22.4#

Manual Integrations
APPROVED

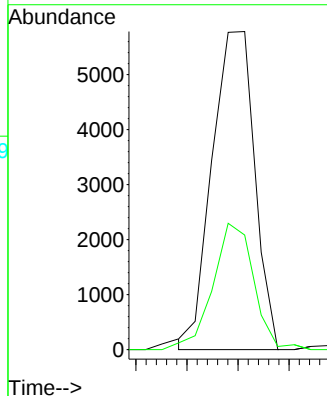
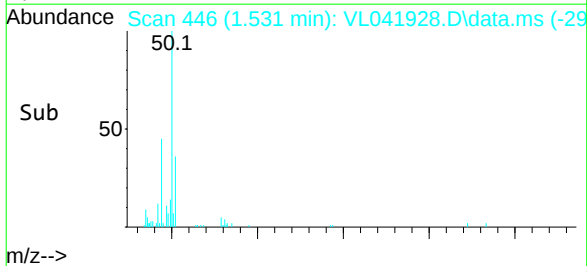
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

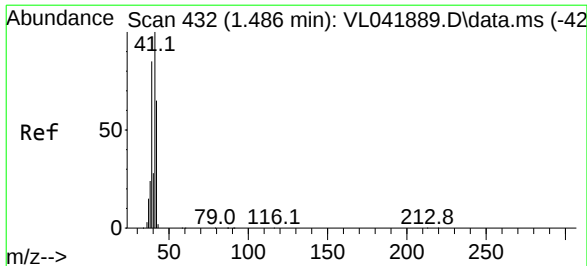


#4
Chloromethane
Concen: 0.489 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.006 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51



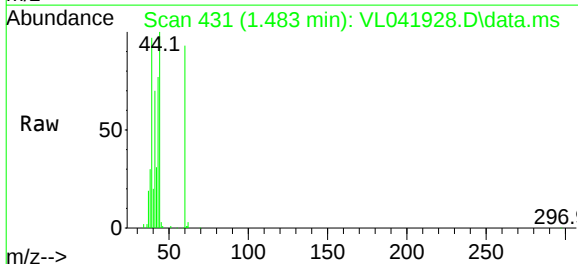
Tgt Ion: 50 Resp: 3358
Ion Ratio Lower Upper
50 100
52 35.0 24.6 36.8





#9
 Propene
 Concen: 0.751 ppbv m
 RT: 1.483 min Scan# 43
 Delta R.T. -0.003 min
 Lab File: VL041928.D
 Acq: 20 Jan 2025 19:51

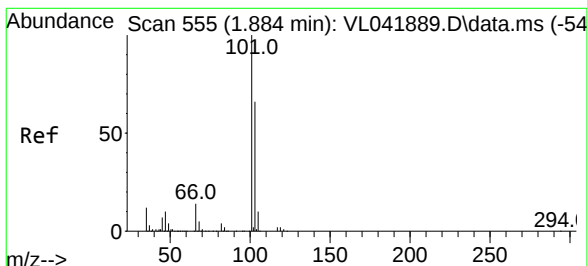
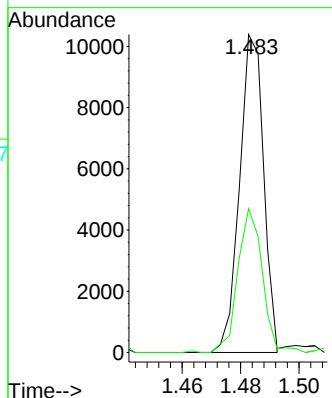
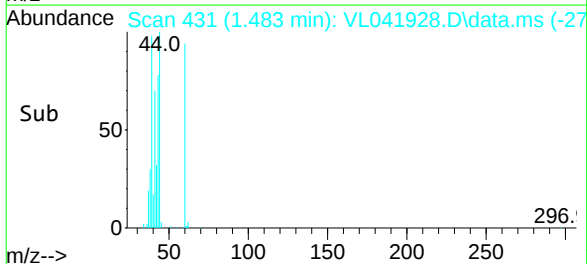
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 41 Resp: 5923
 Ion Ratio Lower Upper
 41 100
 42 48.1 52.0 78.0#

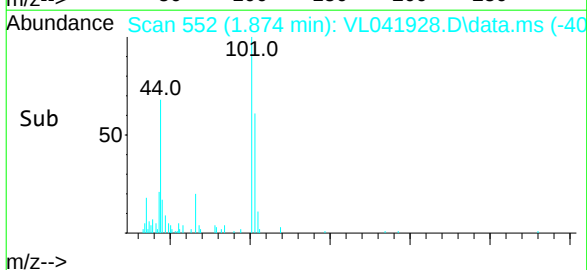
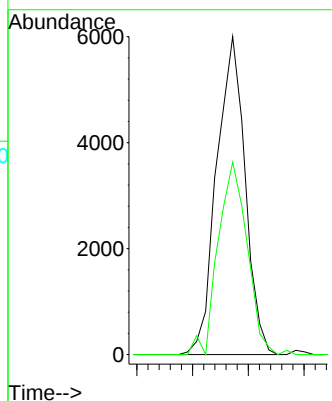
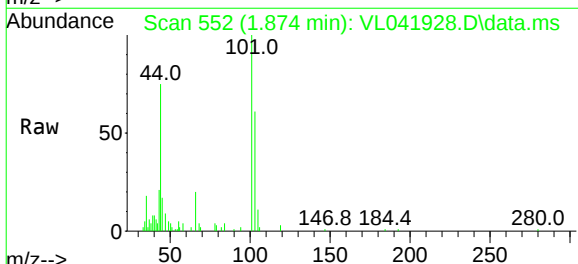
Manual Integrations
 APPROVED

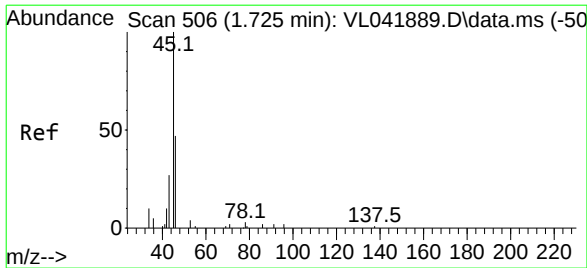
Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025



#11
 Trichlorofluoromethane
 Concen: 0.225 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. -0.010 min
 Lab File: VL041928.D
 Acq: 20 Jan 2025 19:51

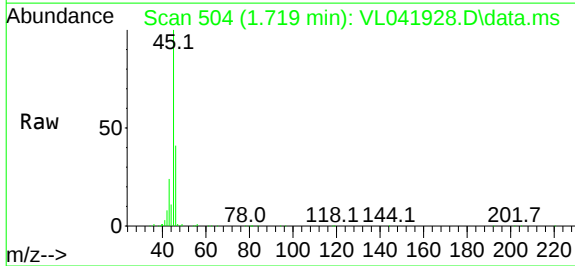
Tgt Ion:101 Resp: 4270
 Ion Ratio Lower Upper
 101 100
 103 60.5 53.1 79.7





#13
Ethanol
Concen: 67.425 ppbv
RT: 1.719 min Scan# 506
Delta R.T. -0.006 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

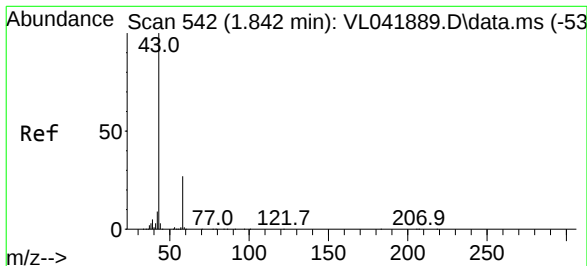
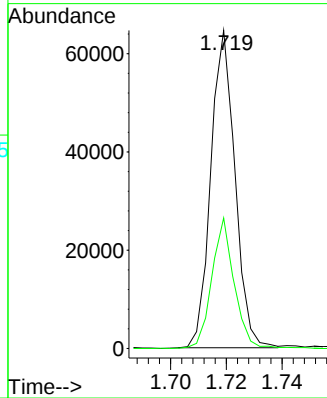
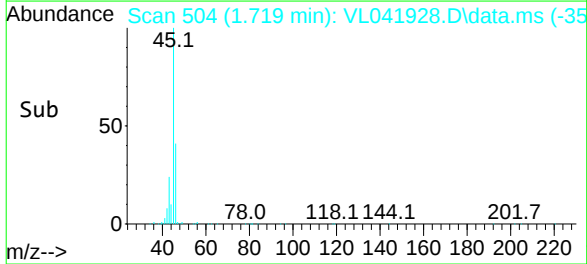
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 38927
Ion Ratio Lower Upper
45 100
46 38.3 18.1 72.5

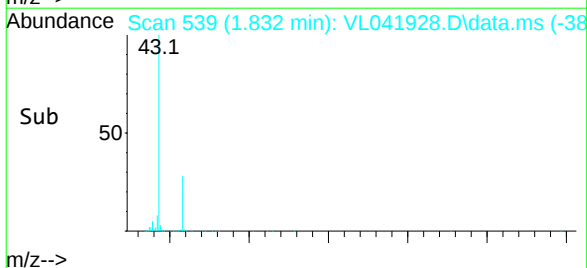
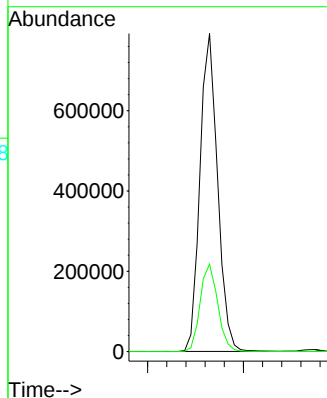
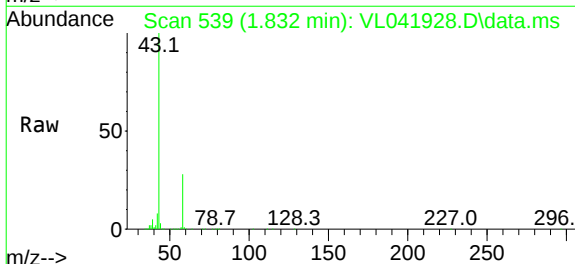
Manual Integrations
APPROVED

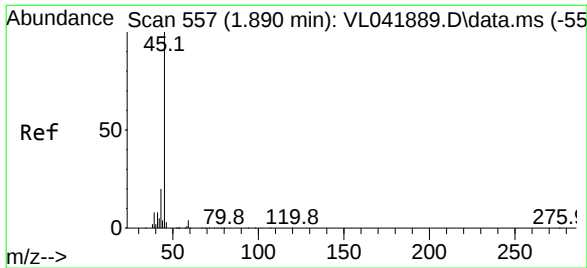
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#15
Acetone
Concen: 31.349 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.010 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

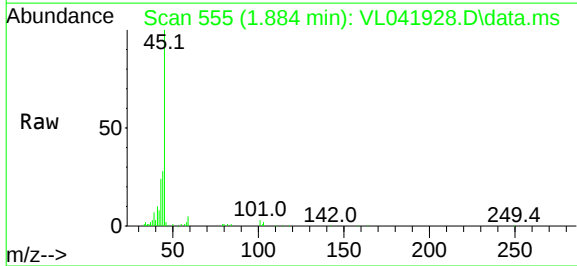
Tgt Ion: 43 Resp: 504884
Ion Ratio Lower Upper
43 100
58 27.6 21.9 32.9





#19
Isopropyl Alcohol
Concen: 1.459 ppbv
RT: 1.884 min Scan# 557
Delta R.T. -0.006 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

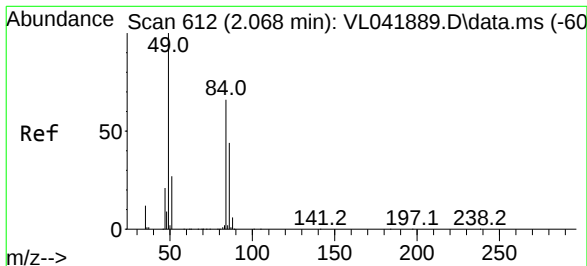
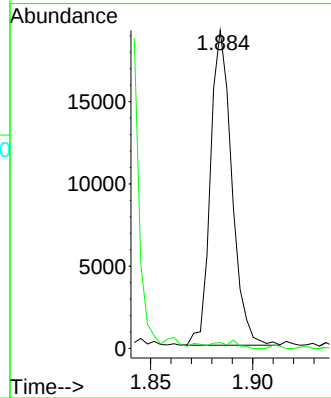
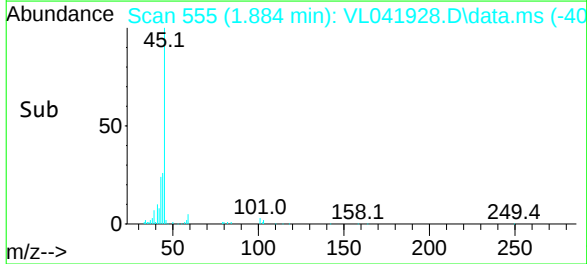
Instrument :
MSVOA_L
ClientSampleId :
IA1



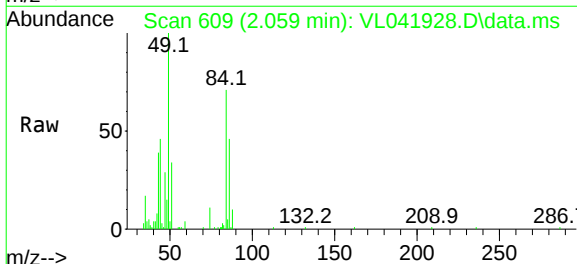
Tgt Ion: 45 Resp: 13931
Ion Ratio Lower Upper
45 100
58 1000.9 35.0 52.6

Manual Integrations
APPROVED

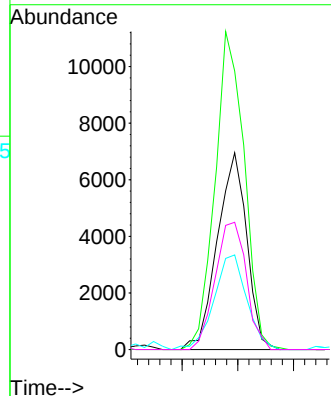
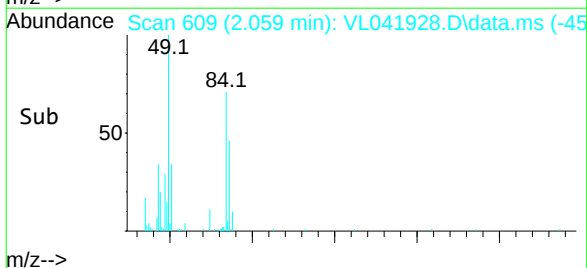
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

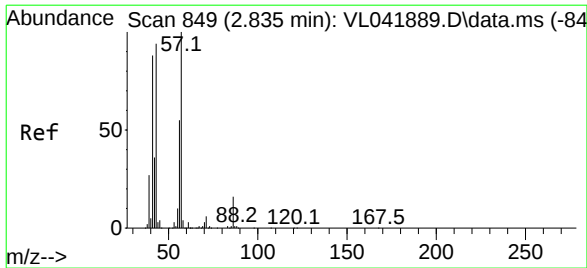


#20
Methylene Chloride
Concen: 0.803 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51



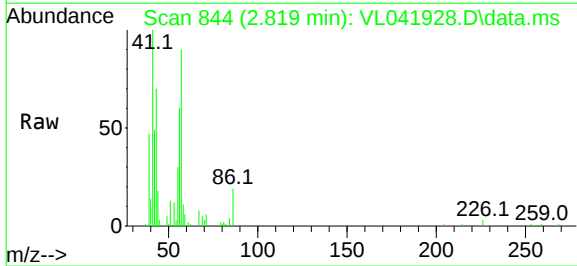
Tgt Ion: 84 Resp: 5111
Ion Ratio Lower Upper
84 100
49 141.5 123.1 184.7
51 48.1 35.8 53.8
86 64.7 53.7 80.5





#26
Hexane
Concen: 0.393 ppbv
RT: 2.819 min Scan# 849
Delta R.T. -0.016 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

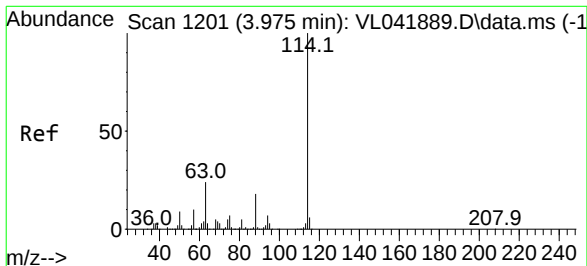
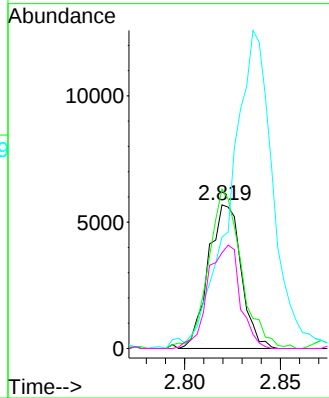
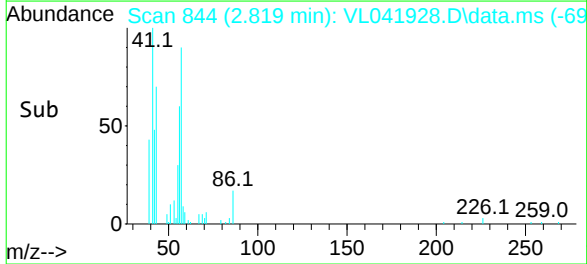
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 6758
Ion Ratio Lower Upper
57 100
41 112.0 73.8 110.8#
43 292.2 197.3 295.9#
56 71.0 42.7 64.1#

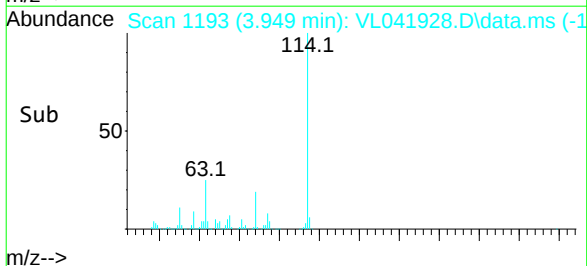
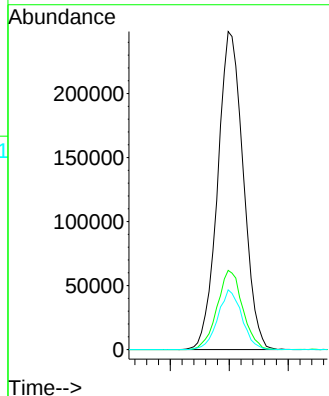
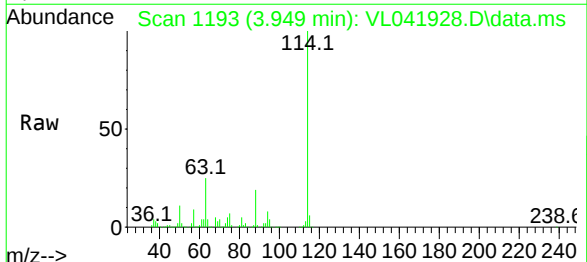
Manual Integrations
APPROVED

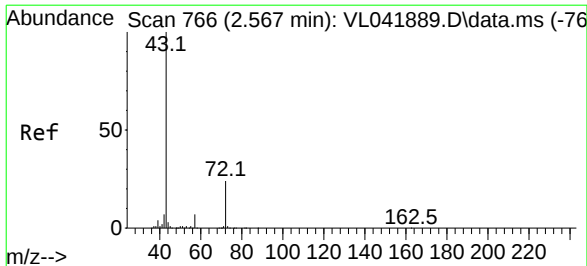
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.026 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

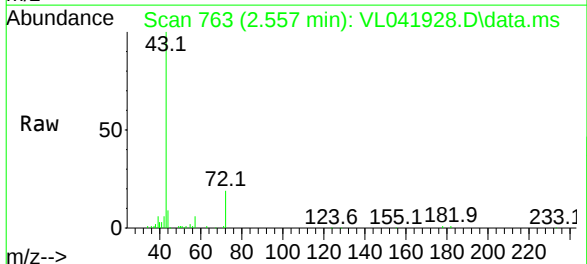
Tgt Ion:114 Resp: 374281
Ion Ratio Lower Upper
114 100
63 24.8 19.8 29.6
88 17.6 14.4 21.6





#34
2-Butanone
Concen: 0.590 ppbv
RT: 2.557 min Scan# 766
Delta R.T. -0.010 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

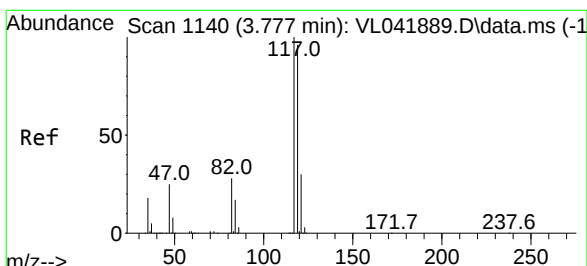
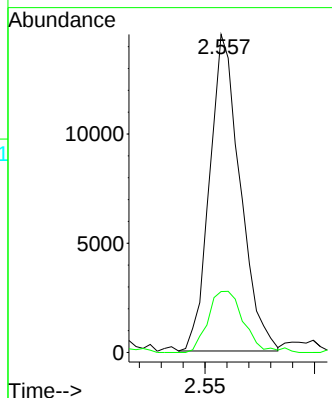
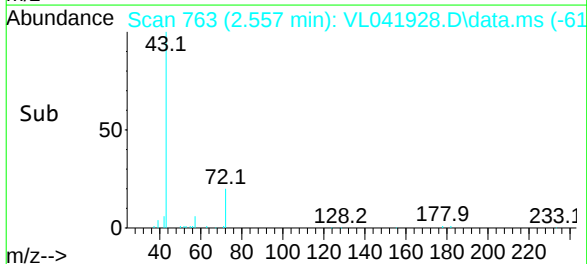
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 14051
Ion Ratio Lower Upper
43 100
72 22.8 18.6 28.0

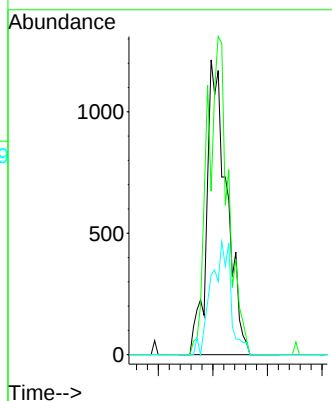
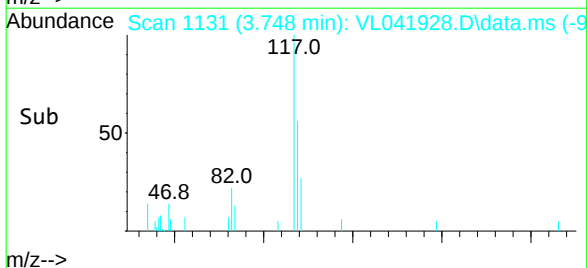
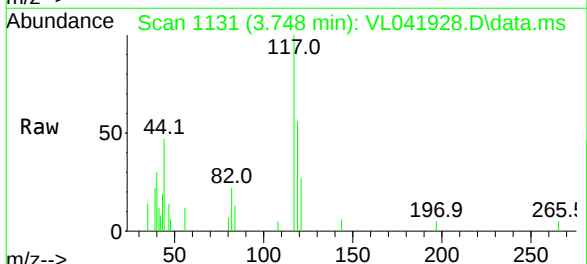
Manual Integrations
APPROVED

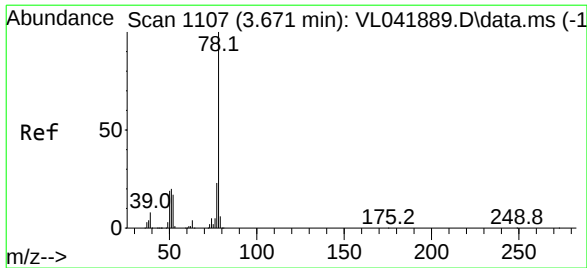
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 3.748 min Scan# 1131
Delta R.T. -0.029 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

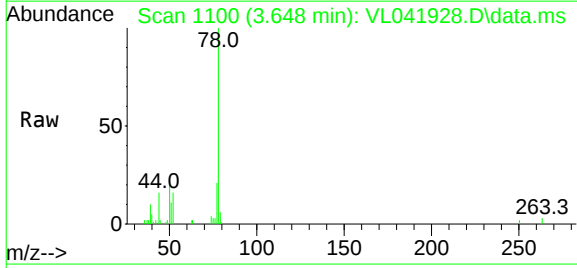
Tgt Ion:117 Resp: 1550
Ion Ratio Lower Upper
117 100
119 55.5 76.9 115.3#
121 27.1 23.8 35.6





#36
Benzene
Concen: 0.209 ppbv
RT: 3.648 min Scan# 1107
Delta R.T. -0.022 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

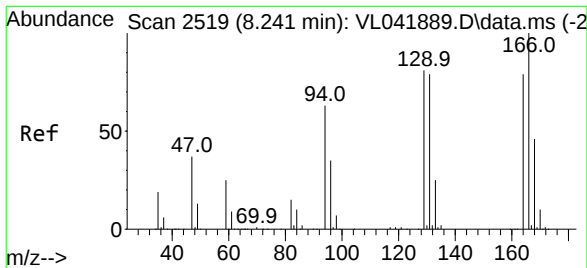
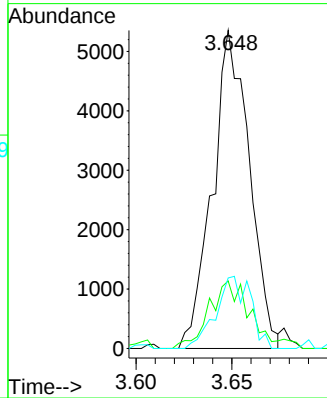
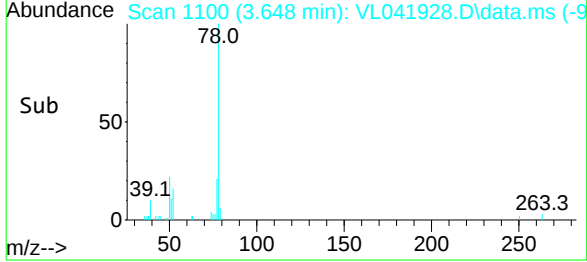
Instrument : MSVOA_L
ClientSampleId : IA1



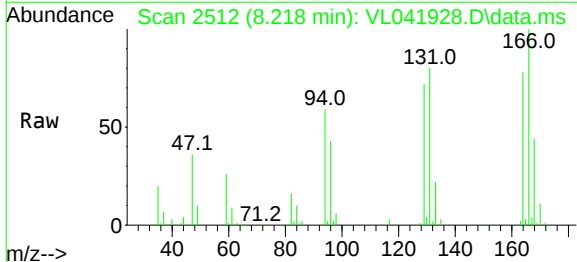
Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.6	18.1	27.1
50	22.2	15.2	22.8

Manual Integrations
APPROVED

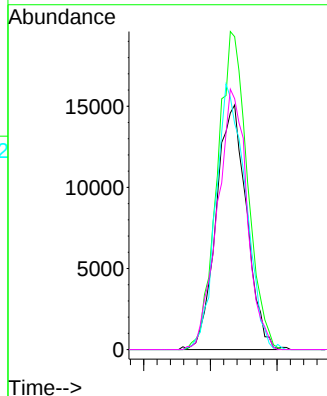
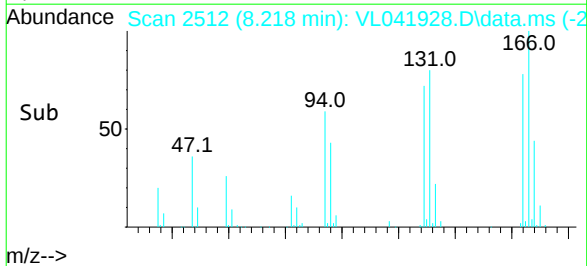
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

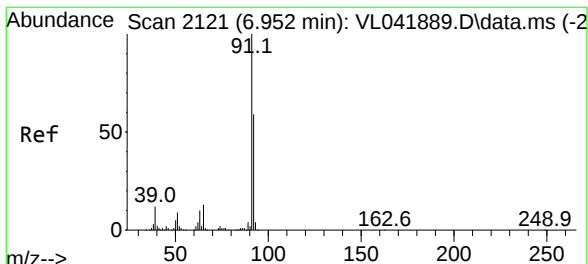


#52
Tetrachloroethene
Concen: 2.007 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.022 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51



Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.9	100.8	151.2
129	92.4	82.0	123.0
131	102.6	80.2	120.2



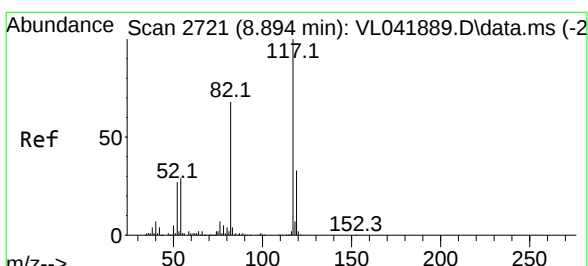
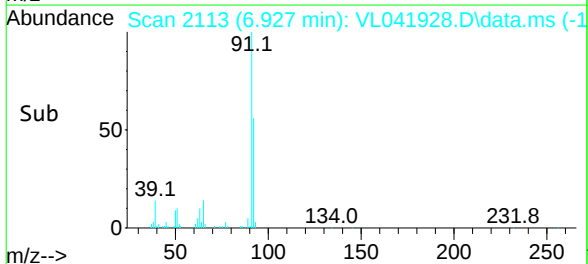
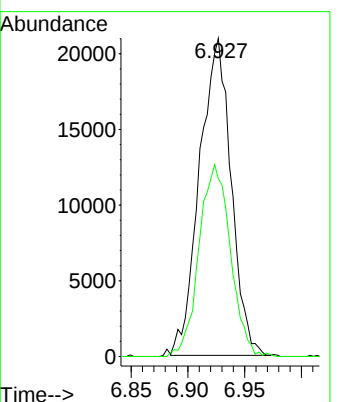
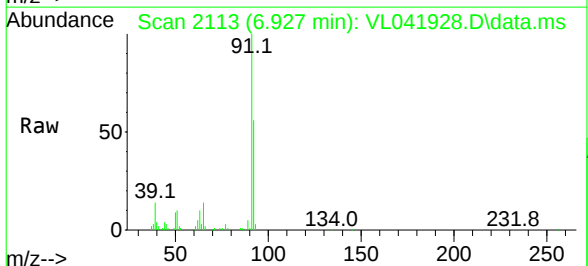


#53
Toluene
Concen: 1.084 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.026 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

Instrument : MSVOA_L
ClientSampleId : IA1

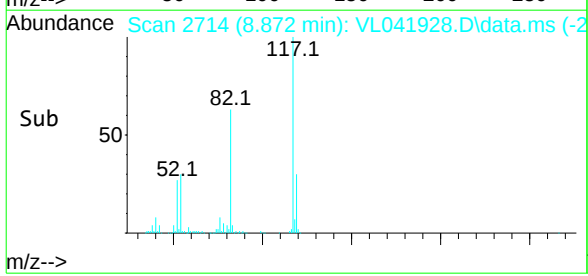
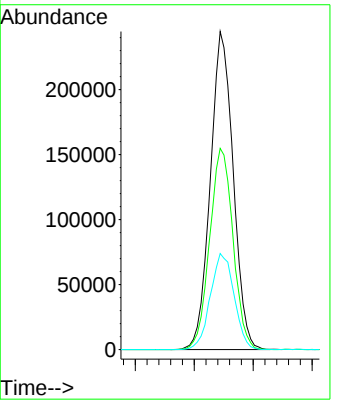
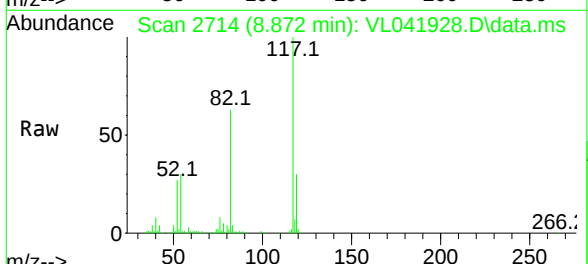
Tgt Ion:	91	Resp:	40543
Ion Ratio	Lower	Upper	
91	100		
92	60.1	47.4	71.0

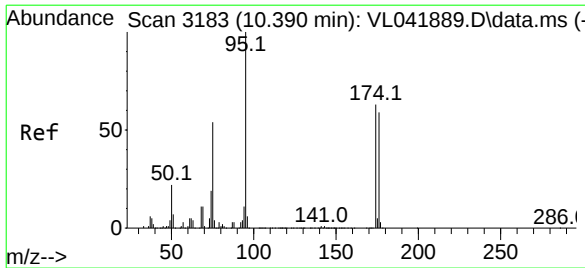
Manual Integrations
APPROVED
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 2714
Delta R.T. -0.022 min
Lab File: VL041928.D
Acq: 20 Jan 2025 19:51

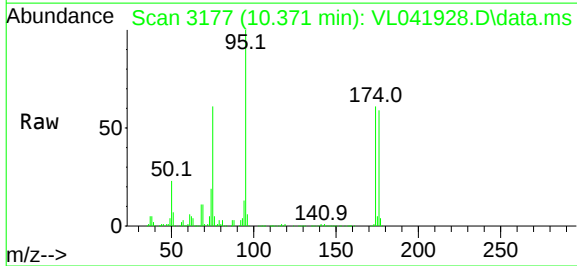
Tgt Ion:	117	Resp:	329727
Ion Ratio	Lower	Upper	
117	100		
82	64.7	54.2	81.4
119	31.4	25.0	37.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.794 ppbv
 RT: 10.371 min Scan# 31
 Delta R.T. -0.019 min
 Lab File: VL041928.D
 Acq: 20 Jan 2025 19:51

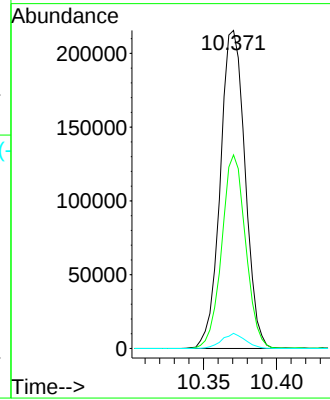
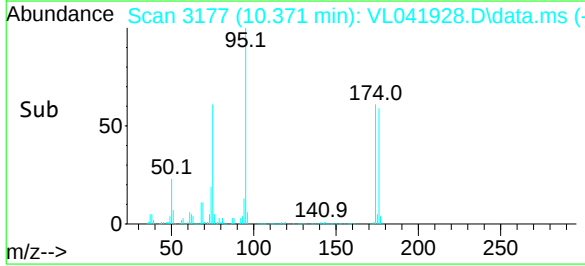
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt	Ion	Ratio	Lower	Upper
95	100			
174	58.7	49.0	73.4	
175	4.5	3.8	5.8	

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 Supervised By :Mahesh Dadoda 01/21/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	01/17/25
Project:	21-36 Utopia Parkway, Flushing NY	Date Received:	01/20/25
Client Sample ID:	IA2	SDG No.:	Q1138
Lab Sample ID:	Q1138-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041929.D	1		01/20/25 20:26	VL012025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.56	3.80		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	140000			2.781		
540-36-3	1,4-Difluorobenzene	384000			3.949		
3114-55-4	Chlorobenzene-d5	332000			8.875		

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\VL012025\
 Data File : VL041929.D
 Acq On : 20 Jan 2025 20:26
 Operator : SY/MD
 Sample : Q1138-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Quant Time: Jan 21 03:08:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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 Supervised By : Mahesh Dadoda 01/21/2025

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

Internal Standards						
1) Bromochloromethane	2.781	49	140403	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	383832	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.875	117	331576	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	256977	9.840	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	8462	0.442	ppbv	92
3) Chlorodifluoromethane	1.473	51	5354m	0.267	ppbv	
4) Chloromethane	1.528	50	3664	0.509	ppbv	92
9) Propene	1.483	41	3172	0.384	ppbv	88
11) Trichlorofluoromethane	1.874	101	4275	0.215	ppbv	92
13) Ethanol	1.719	45	8228	13.611	ppbv #	31
15) Acetone	1.832	43	123835	7.343	ppbv	98
19) Isopropyl Alcohol	1.884	45	4447	0.445	ppbv #	1
20) Methylene Chloride	2.056	84	5944	0.892	ppbv	95
26) Hexane	2.819	57	7434	0.413	ppbv #	47
34) 2-Butanone	2.561	43	3017	0.124	ppbv	97
35) Carbon Tetrachloride	3.758	117	1978m	0.082	ppbv	
36) Benzene	3.651	78	4670	0.133	ppbv #	76
52) Tetrachloroethene	8.212	164	6811	0.558	ppbv #	84
53) Toluene	6.923	91	3567m	0.093	ppbv	

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

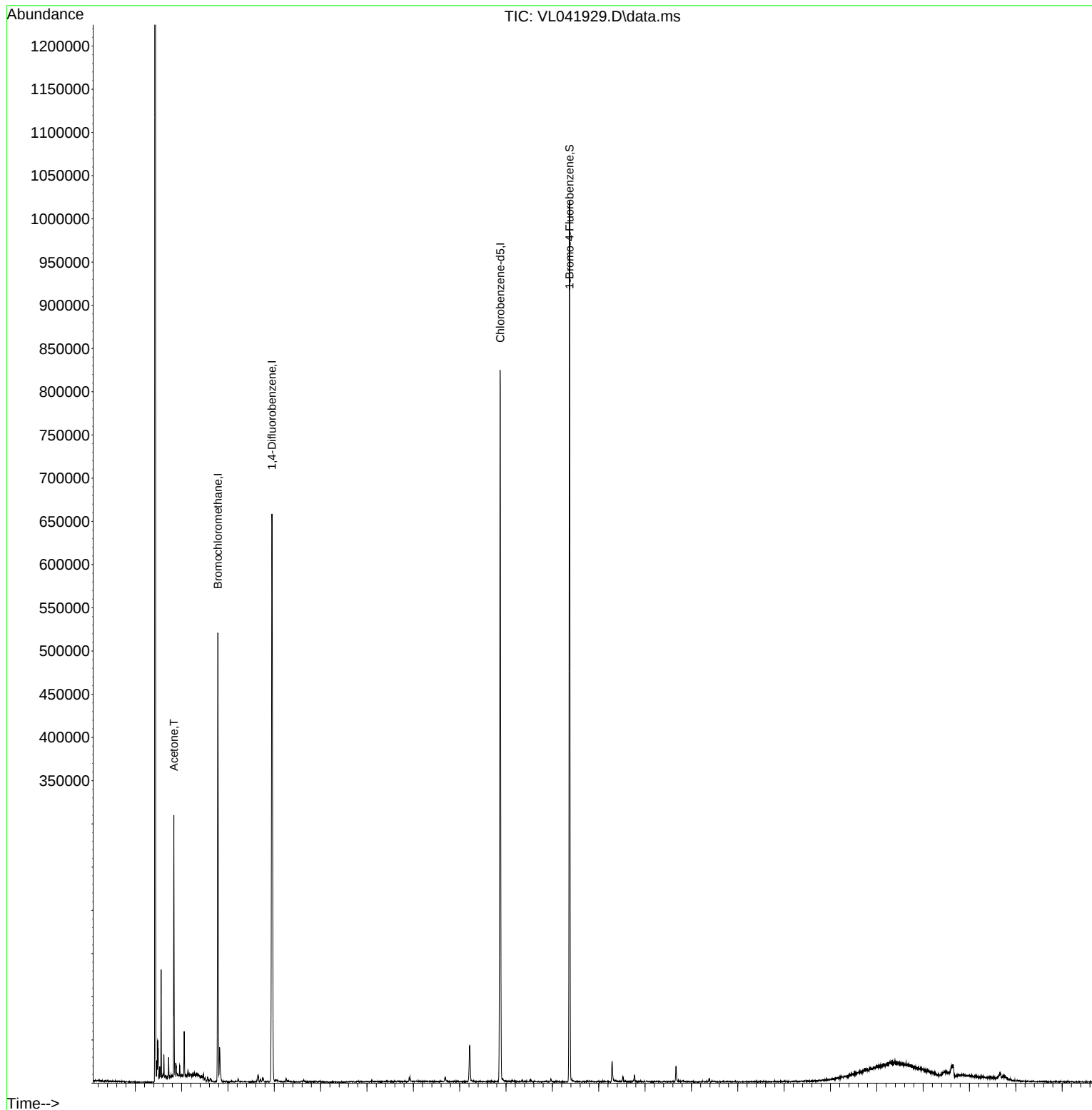
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041929.D
Acq On : 20 Jan 2025 20:26
Operator : SY/MD
Sample : Q1138-02
Misc : 400mL/MSVOA_L
ALS Vial : 13 Sample Multiplier: 1

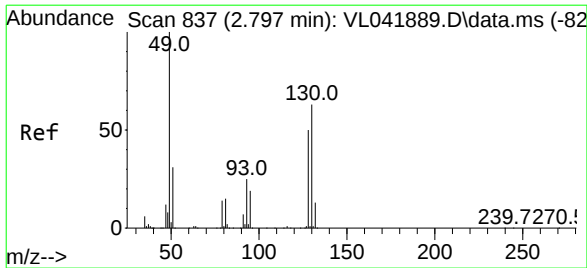
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Jan 21 03:08:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

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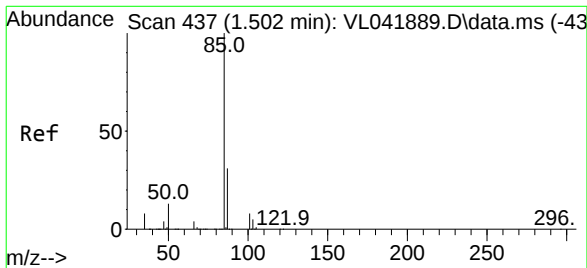
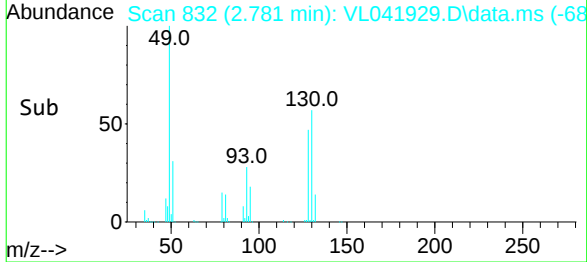
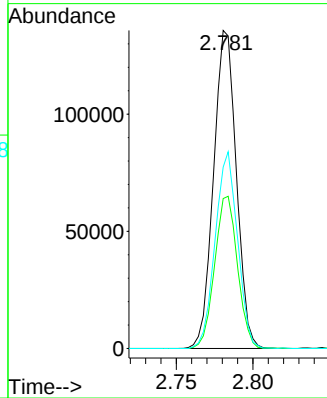
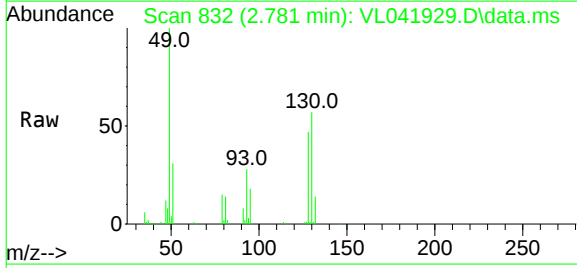
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 837
Delta R.T. -0.016 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 49 Resp: 140403
Ion Ratio Lower Upper
49 100
128 47.9 24.3 73.0
130 60.6 31.1 93.2

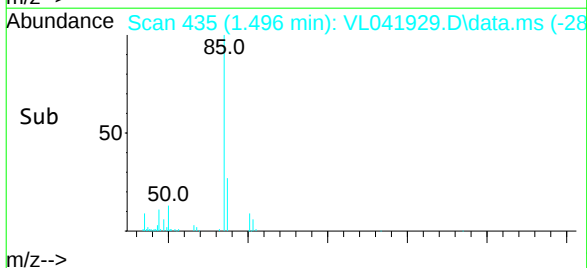
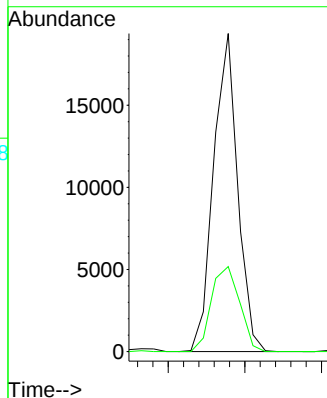
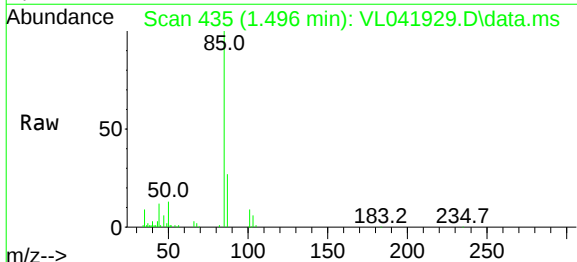
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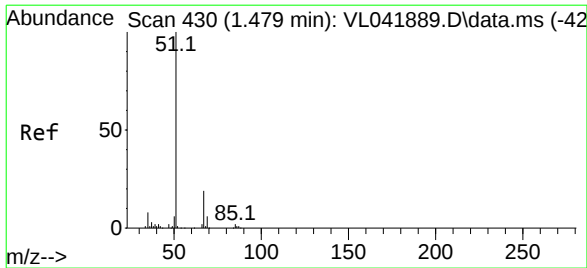
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#2
Dichlorodifluoromethane
Concen: 0.442 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

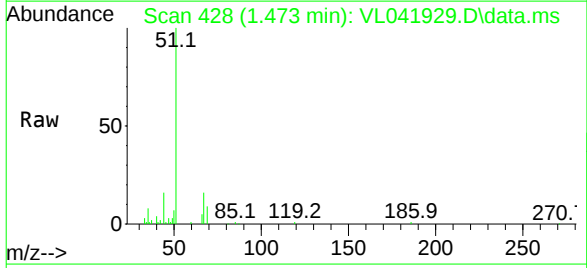
Tgt Ion: 85 Resp: 8462
Ion Ratio Lower Upper
85 100
87 26.7 24.9 37.3





#3
Chlorodifluoromethane
Concen: 0.267 ppbv m
RT: 1.473 min Scan# 42
Delta R.T. -0.006 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

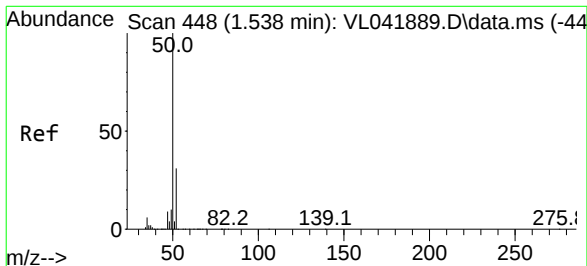
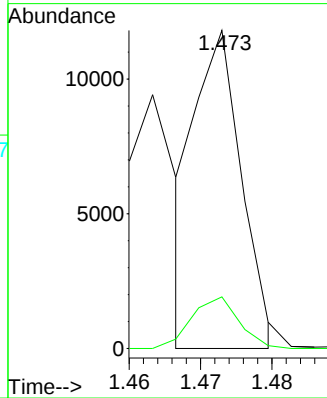
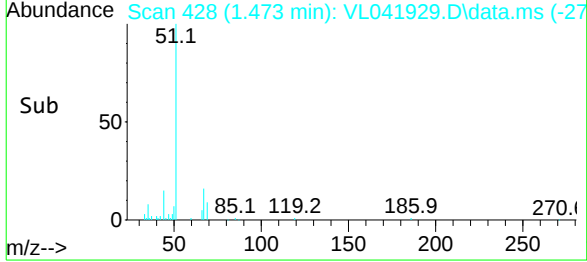
Instrument :
MSVOA_L
ClientSampleId :
IA2



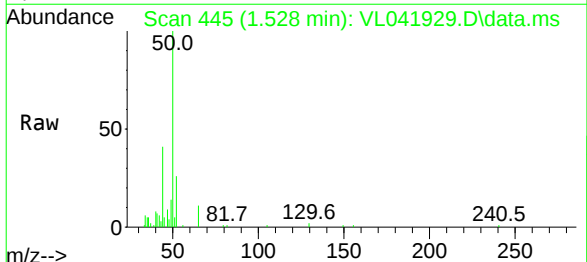
Tgt Ion: 51 Resp: 5354
Ion Ratio Lower Upper
51 100
67 16.6 15.0 22.4

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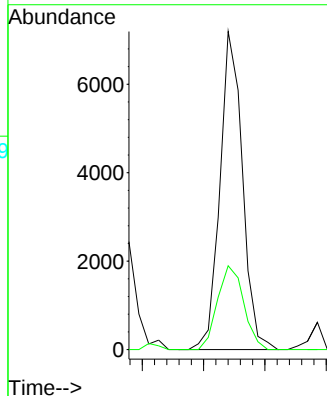
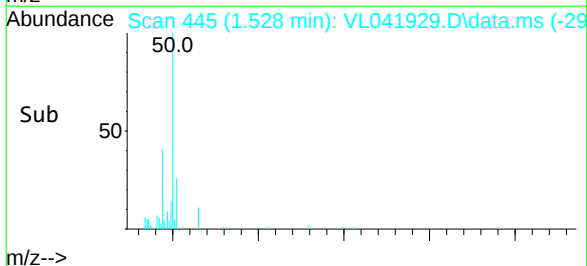
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

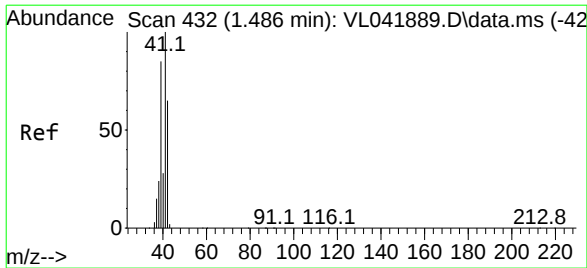


#4
Chloromethane
Concen: 0.509 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.010 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26



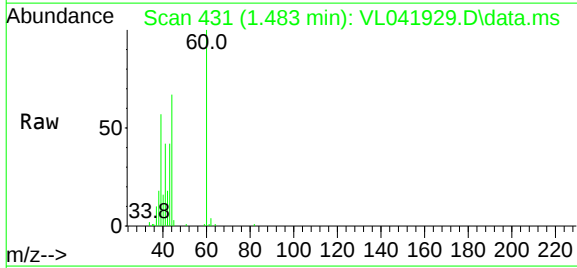
Tgt Ion: 50 Resp: 3664
Ion Ratio Lower Upper
50 100
52 26.3 24.6 36.8





#9
 Propene
 Concen: 0.384 ppbv
 RT: 1.483 min Scan# 43
 Delta R.T. -0.003 min
 Lab File: VL041929.D
 Acq: 20 Jan 2025 20:26

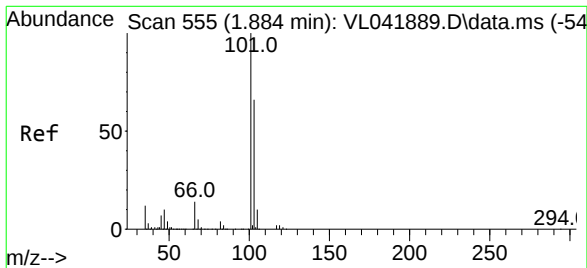
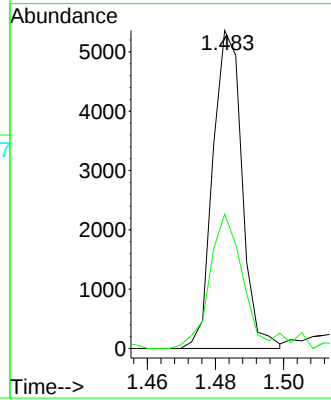
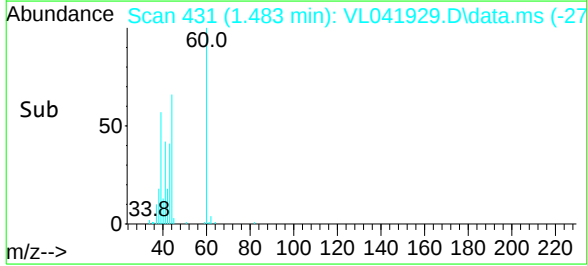
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion: 41 Resp: 3172
 Ion Ratio Lower Upper
 41 100
 42 55.5 52.0 78.0

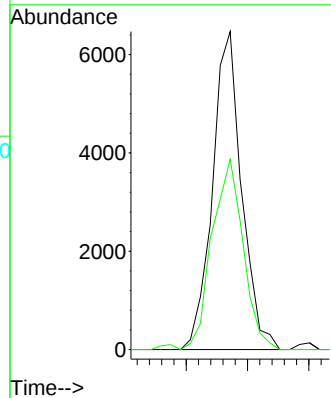
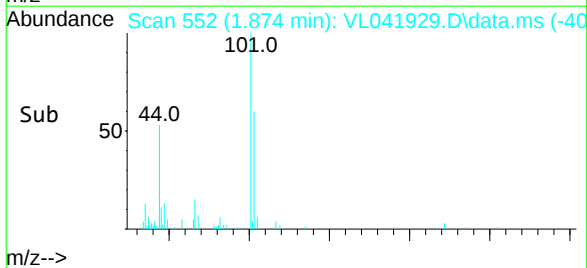
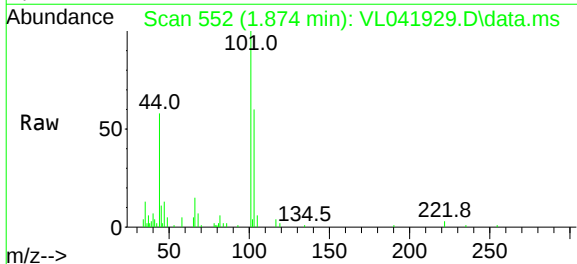
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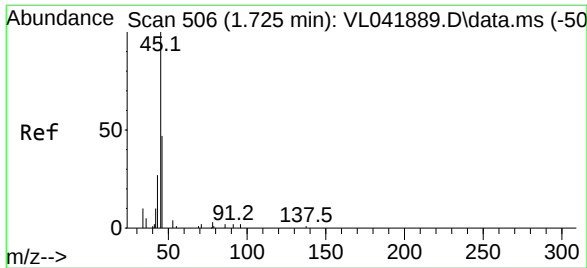
Reviewed By :Semsettin Yesilyurt 01/21/2025
 Supervised By :Mahesh Dadoda 01/21/2025



#11
 Trichlorofluoromethane
 Concen: 0.215 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. -0.010 min
 Lab File: VL041929.D
 Acq: 20 Jan 2025 20:26

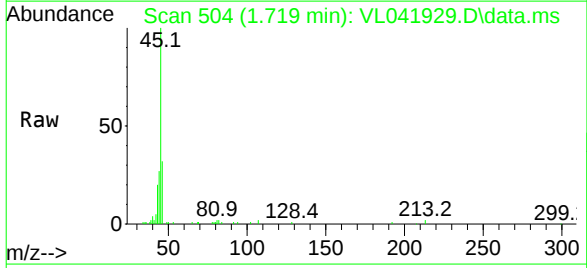
Tgt Ion:101 Resp: 4275
 Ion Ratio Lower Upper
 101 100
 103 59.9 53.1 79.7





#13
Ethanol
Concen: 13.611 ppbv
RT: 1.719 min Scan# 506
Delta R.T. -0.006 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

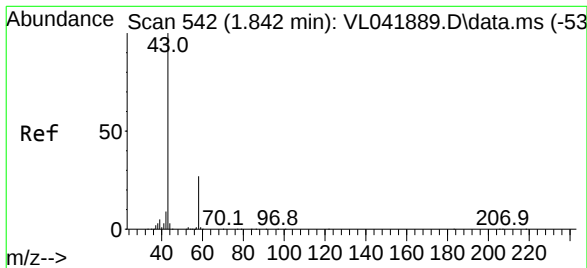
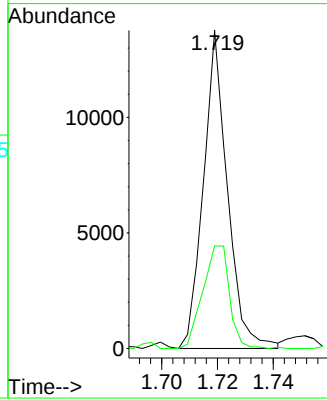
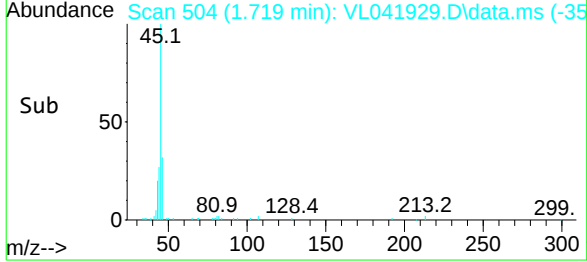
Instrument :
MSVOA_L
ClientSampleId :
IA2



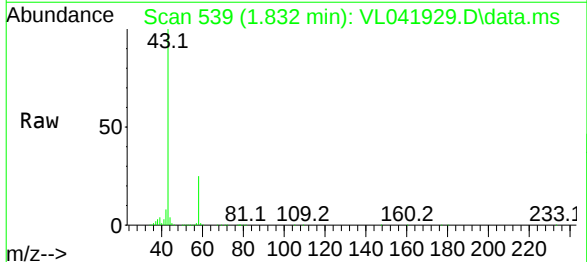
Tgt Ion: 45 Resp: 8228
Ion Ratio Lower Upper
45 100
46 0.0 18.1 72.5#

Manual Integrations
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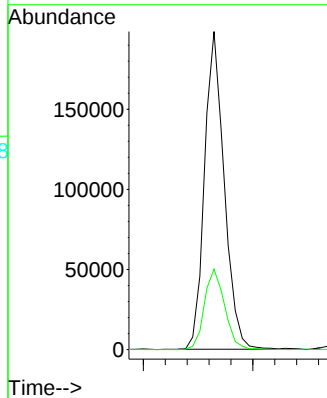
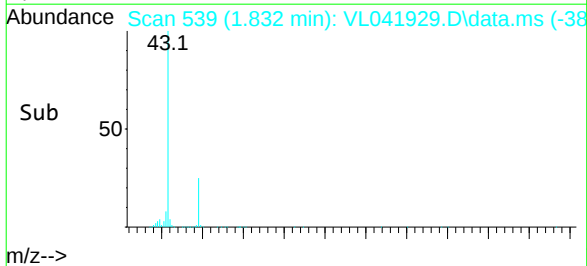
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

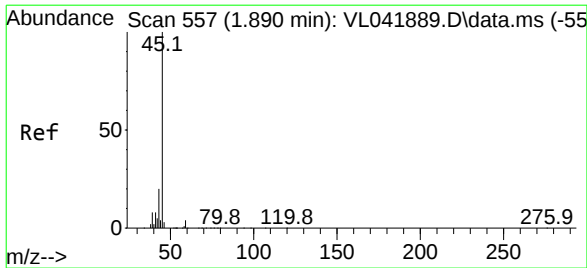


#15
Acetone
Concen: 7.343 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.010 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26



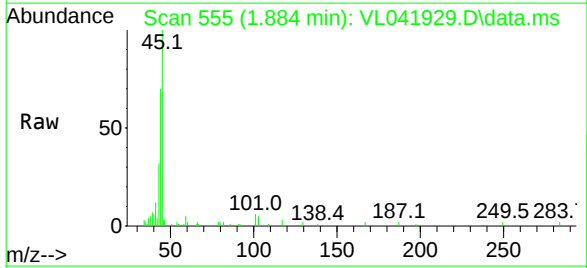
Tgt Ion: 43 Resp: 123835
Ion Ratio Lower Upper
43 100
58 26.1 21.9 32.9





#19
Isopropyl Alcohol
Concen: 0.445 ppbv
RT: 1.884 min Scan# 557
Delta R.T. -0.006 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

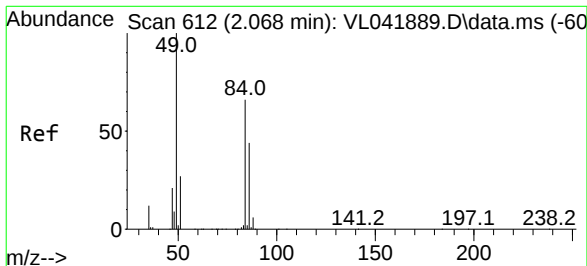
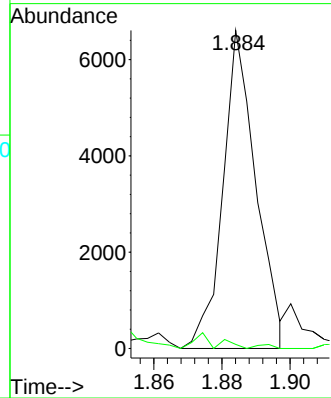
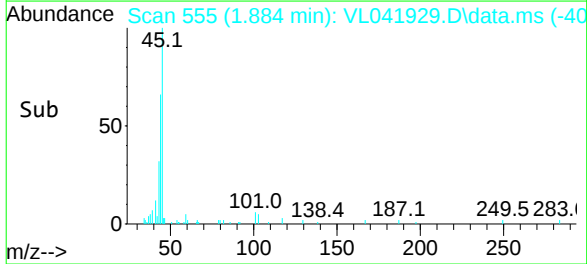
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 45 Resp: 4447
Ion Ratio Lower Upper
45 100
58 726.8 35.0 52.6#

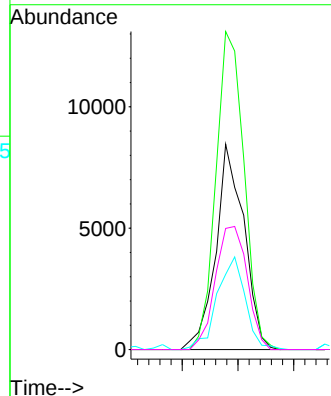
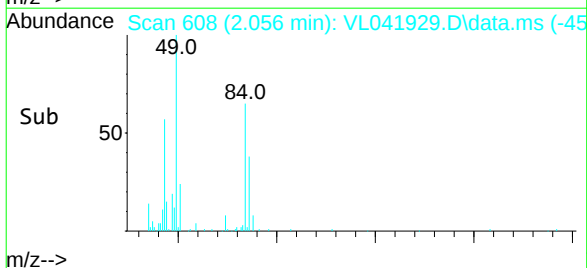
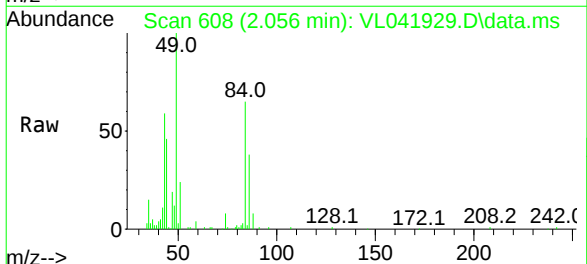
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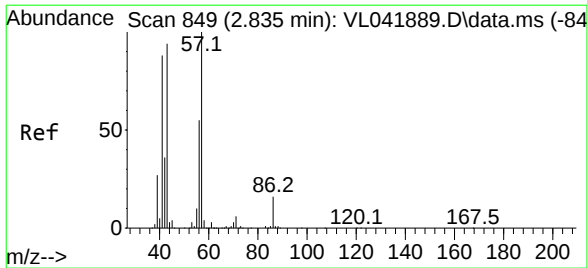
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#20
Methylene Chloride
Concen: 0.892 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.013 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

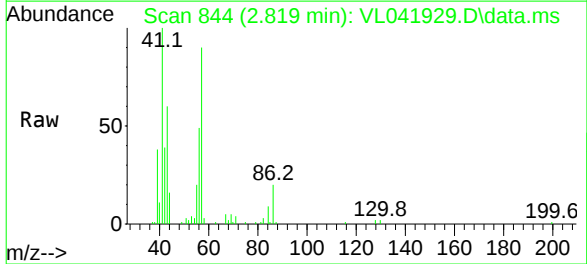
Tgt Ion: 84 Resp: 5944
Ion Ratio Lower Upper
84 100
49 154.9 123.1 184.7
51 36.6 35.8 53.8
86 59.0 53.7 80.5





#26
Hexane
Concen: 0.413 ppbv
RT: 2.819 min Scan# 84
Delta R.T. -0.016 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

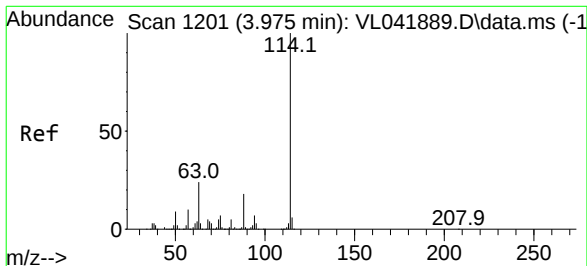
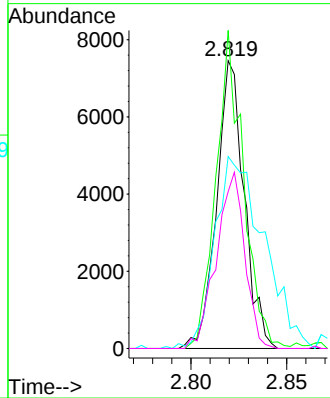
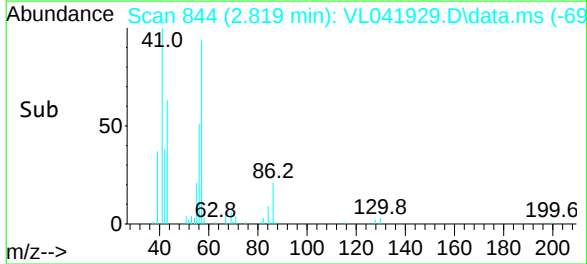
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 7434
Ion Ratio Lower Upper
57 100
41 112.6 73.8 110.8#
43 121.1 197.3 295.9#
56 63.5 42.7 64.1

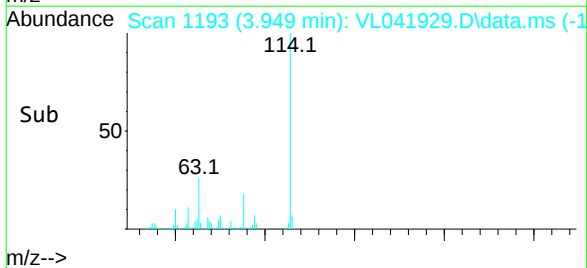
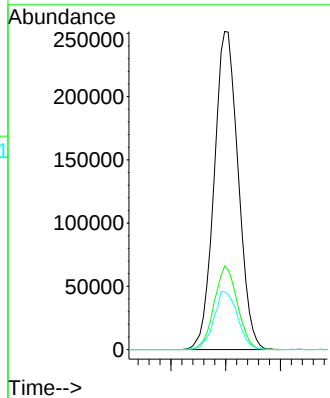
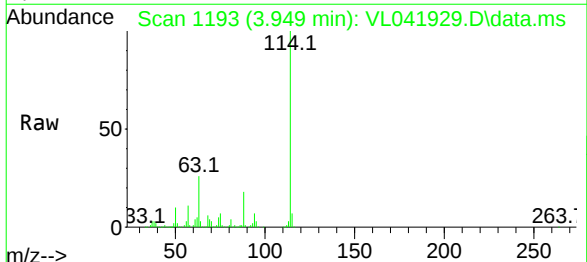
Manual Integrations
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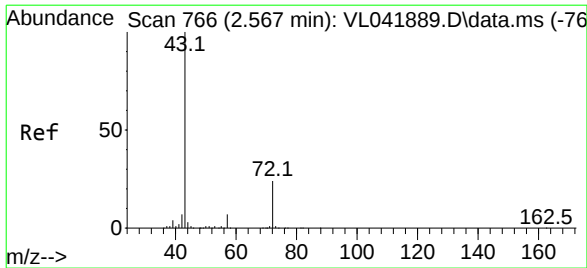
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.026 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

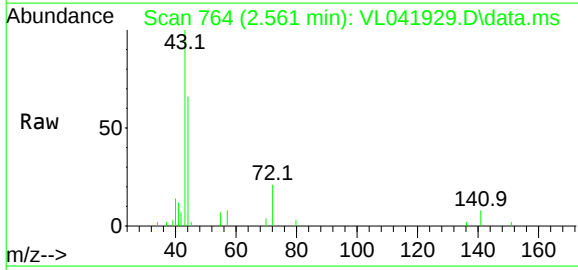
Tgt Ion:114 Resp: 383832
Ion Ratio Lower Upper
114 100
63 25.4 19.8 29.6
88 18.0 14.4 21.6





#34
2-Butanone
Concen: 0.124 ppbv
RT: 2.561 min Scan# 766
Delta R.T. -0.006 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

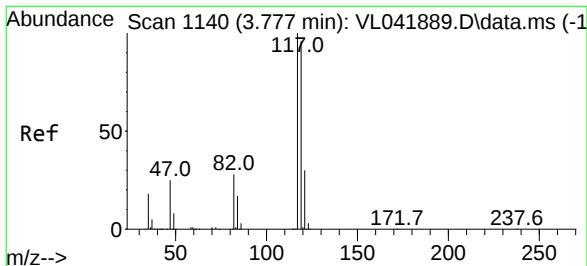
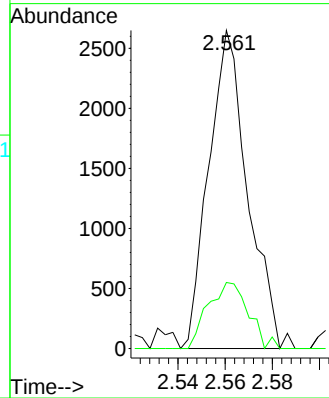
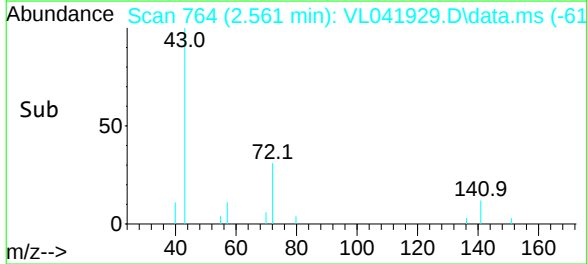
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 3017
Ion Ratio Lower Upper
43 100
72 21.7 18.6 28.0

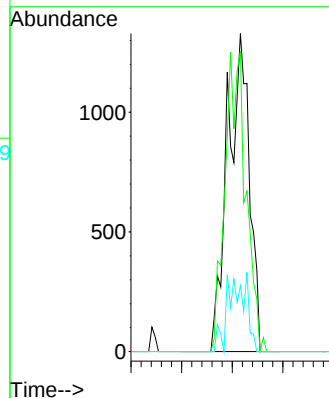
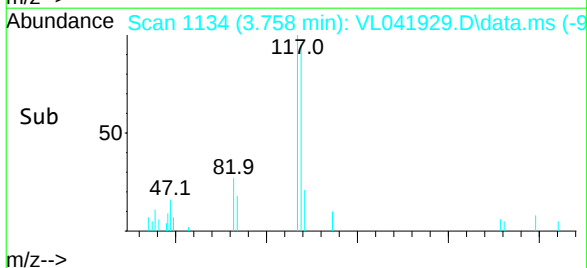
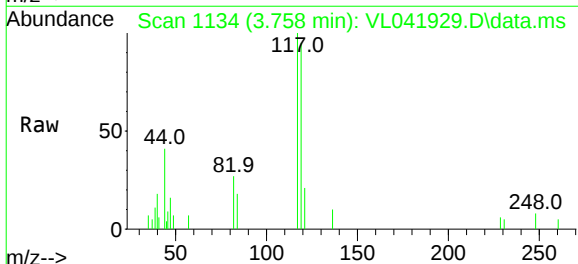
Manual Integrations
APPROVED

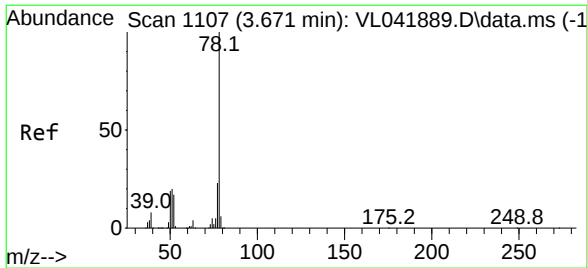
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.019 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

Tgt Ion:117 Resp: 1978
Ion Ratio Lower Upper
117 100
119 94.5 76.9 115.3
121 20.7 23.8 35.6#





#36

Benzene

Concen: 0.133 ppbv

RT: 3.651 min Scan# 1107

Delta R.T. -0.019 min

Lab File: VL041929.D

Acq: 20 Jan 2025 20:26

Instrument :

MSVOA_L

ClientSampleId :

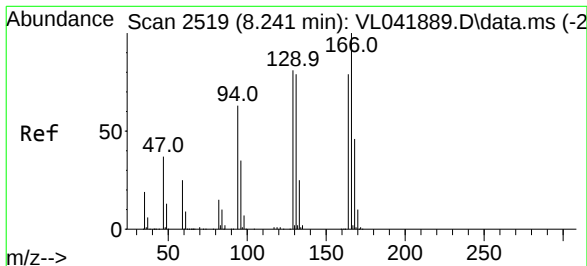
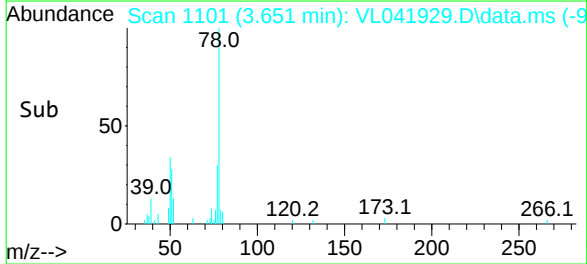
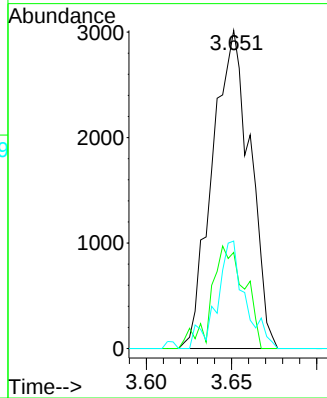
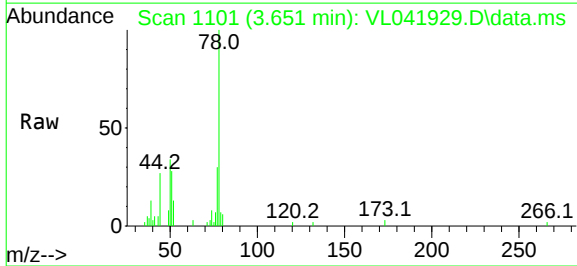
IA2

Tgt Ion: 78	Resp: 4670
Ion Ratio	Lower Upper
78 100	
77 30.2	18.1 27.1
50 33.8	15.2 22.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#52

Tetrachloroethene

Concen: 0.558 ppbv

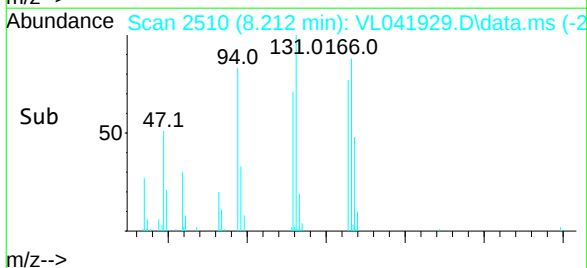
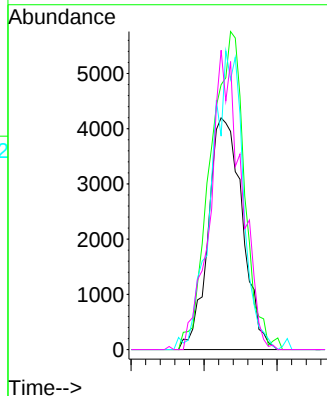
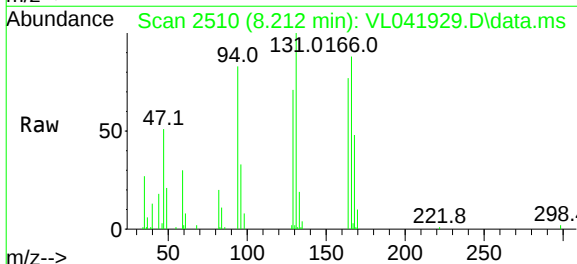
RT: 8.212 min Scan# 2510

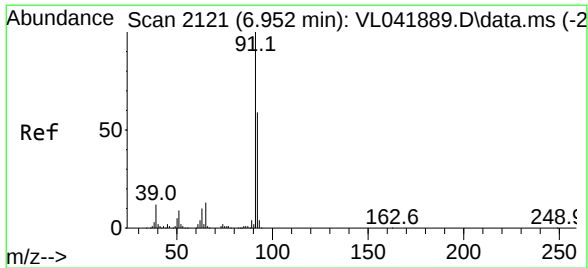
Delta R.T. -0.029 min

Lab File: VL041929.D

Acq: 20 Jan 2025 20:26

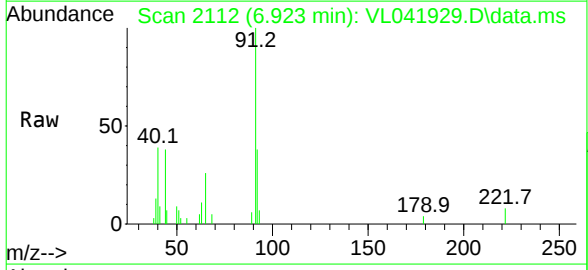
Tgt Ion: 164	Resp: 6811
Ion Ratio	Lower Upper
164 100	
166 114.3	100.8 151.2
129 92.1	82.0 123.0
131 129.2	80.2 120.2





#53
Toluene
Concen: 0.093 ppbv m
RT: 6.923 min Scan# 211
Delta R.T. -0.029 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

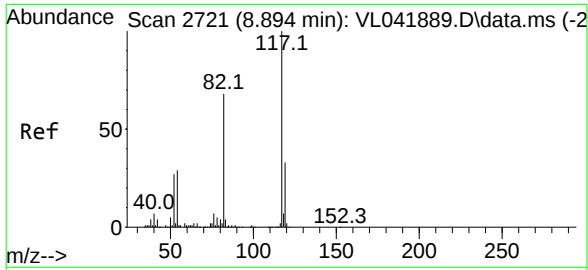
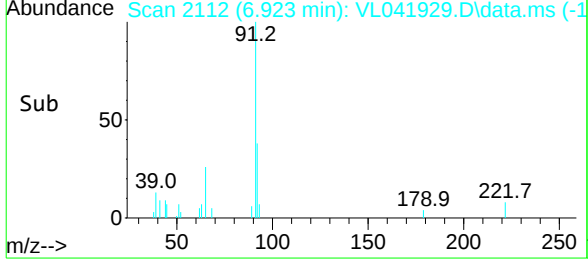
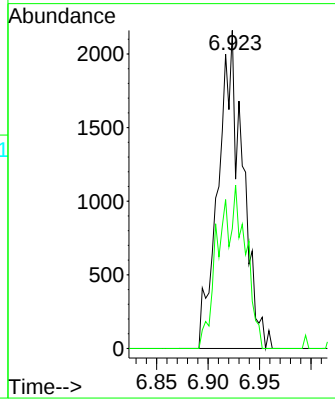
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 91 Resp: 3567
Ion Ratio Lower Upper
91 100
92 0.0 47.4 71.0#

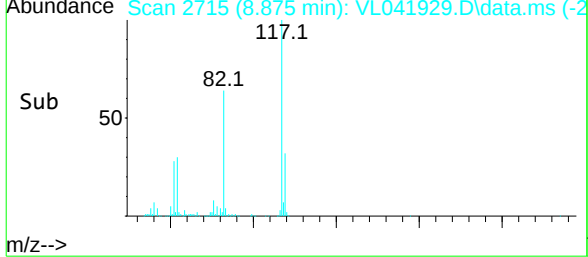
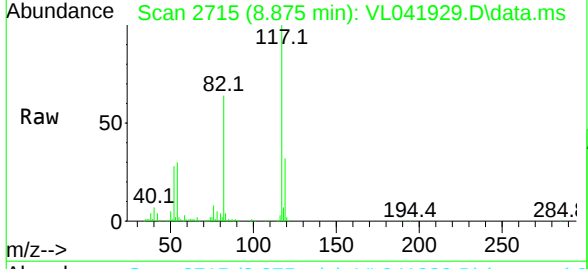
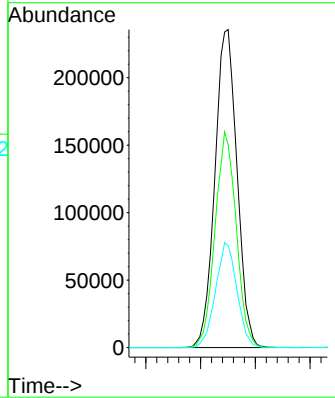
Manual Integrations
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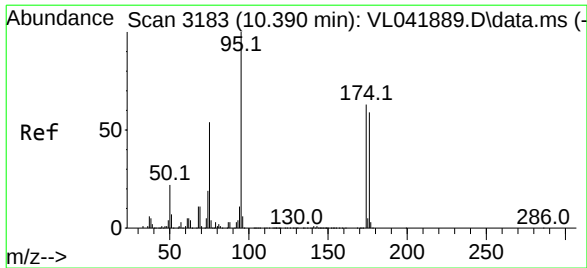
Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.019 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

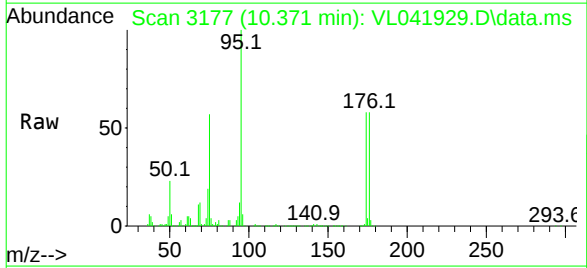
Tgt Ion:117 Resp: 331576
Ion Ratio Lower Upper
117 100
82 64.9 54.2 81.4
119 31.9 25.0 37.6





#68
1-Bromo-4-Fluorobenzene
Concen: 9.840 ppbv
RT: 10.371 min Scan# 31
Delta R.T. -0.019 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

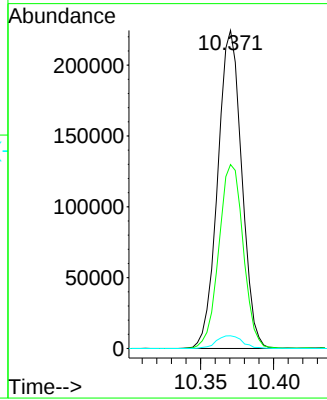
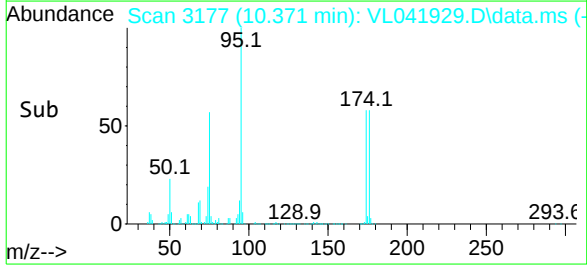
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt	Ion: 95	Resp: 256977
Ion	Ratio	Lower Upper
95	100	
174	59.2	49.0 73.4
175	4.4	3.8 5.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1138 SAS No.: Q1138 SDG No.: Q1138
 Instrument ID: MSVOA_L Calibration Date(s): 01/14/2025 01/14/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:55 16:05
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL041889.D		RRF002 = VL041890.D		RRF001 = VL041891.D		
		RRF0.5 = VL041892.D		RRF0.1 = VL041893.D		RRF.03 = VL041894.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.466	0.502	0.531	0.561	0.578	0.504	0.519	7.6
1,1-Dichloroethene	0.458	0.514	0.517	0.520			0.501	5.2
cis-1,2-Dichloroethene	1.272	1.390	1.397	1.406			1.349	5
1,1,1-Trichloroethane	1.905	1.956	2.010	1.942	1.841	1.937	1.938	2.8
Trichloroethene	0.354	0.373	0.374	0.381	0.427	0.286	0.364	11.6
Tetrachloroethene	0.292	0.330	0.329	0.317	0.348	0.320	0.318	6.5
1-Bromo-4-Fluorobenzene	0.782	0.795	0.792	0.784	0.785	0.783	0.788	0.7

* 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 : VL011425AIR.M

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

Last Update : Tue Jan 14 23:15:42 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL041894.D 0.1 =VL041893.D 0.5 =VL041892.D 1 =VL041891.D 2 =VL041890.D 10 =VL041889.D 15 =VL041895.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.450	1.406	1.359	1.300	1.295	1.362	4.93
3) Chlorodifluoro...			1.448	1.547	1.466	1.330	1.343	1.427	6.34
4) Chloromethane			0.546	0.499	0.525	0.492	0.499	0.512	4.41
5) T Vinyl Chloride	0.504	0.578	0.561	0.531	0.502	0.466	0.491	0.519	7.62
6) T Bromomethane			0.253	0.274	0.248	0.229	0.233	0.247	7.30
7) Chloroethane			0.210	0.205	0.209	0.193	0.194	0.202	4.08
8) T Dichlorotetra...			1.282	1.198	1.225	1.095	1.151	1.190	5.99
9) T Propene			0.642	0.577	0.605	0.568	0.548	0.588	6.21
10) T Heptane			1.536	1.616	1.635	1.530	1.538	1.571	3.19
11) T Trichlorofluor...			1.488	1.417	1.435	1.335	1.410	1.417	3.87
12) T 1,1,2-Trichlor...			1.098	1.137	1.166	1.057	1.095	1.110	3.78
13) Ethanol			0.065	0.043	0.051	0.027	0.029	0.043#	36.98
14) T Bromoethene			0.420	0.445	0.403	0.371	0.393	0.407	6.93
15) T Acetone			1.405	1.301	1.256	0.991	1.051	1.201	14.50
16) T 1,3-Butadiene			0.552	0.589	0.545	0.494	0.515	0.539	6.74
17) tert-Butyl alc...			1.527	1.559	1.503	1.399	1.404	1.478	4.91
18) T 1,1-Dichloroet...			0.520	0.517	0.514	0.458	0.492	0.501	5.18
19) T Isopropyl Alcohol			0.864	0.731	0.714	0.621	0.631	0.712	13.77
20) T Methylene Chlo...			0.586	0.503	0.478	0.390	0.416	0.475	16.27
21) T Allyl Chloride			0.897	0.823	0.847	0.792	0.799	0.832	5.06
22) T trans-1,2-Dich...			0.549	0.583	0.595	0.540	0.556	0.565	4.13
23) T Vinyl Acetate			0.873	0.475	0.543	0.538	0.549	0.595	26.54
24) T 1,1-Dichloroet...			1.165	1.099	1.100	1.016	1.083	1.093	4.84
25) T Ethyl Acetate			3.219	3.352	3.399	3.094	3.131	3.239	4.13
26) T Hexane			1.265	1.249	1.388	1.261	1.242	1.281	4.71
27) T Carbon Disulfide			1.210	1.256	1.304	1.258	1.311	1.268	3.22
28) T Methyl tert-Bu...			1.043	1.187	1.007	0.774	0.885	0.979	16.08
29) T Chloroform			2.101	2.060	2.105	1.911	1.947	2.025	4.45
30) T Cyclohexane			1.037	1.193	1.145	1.082	1.098	1.111	5.41
31) T cis-1,2-Dichlo...			1.406	1.397	1.390	1.272	1.279	1.349	4.98
32) T 1,1,1-Trichlor...	1.937	1.841	1.942	2.010	1.956	1.905	1.973	1.938	2.76

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.649	0.646	0.679	0.602	0.605	0.636	5.13
35) T Carbon Tetrach...	0.605	0.608	0.584	0.616	0.657	0.649	0.677	0.628	5.32
36) T Benzene			0.926	0.949	0.949	0.882	0.879	0.917	3.78
37) T 1,2-Dichloroet...			0.539	0.516	0.517	0.493	0.510	0.515	3.23
38) T Trichloroethene	0.286	0.427	0.381	0.374	0.373	0.354	0.353	0.364	11.62
39) T 1,2-Dichloropr...			0.349	0.321	0.329	0.305	0.304	0.322	5.81

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL011425AIR.M											
40)	T	1,4-Dioxane			0.187	0.162	0.161	0.147	0.155	0.162	9.21
41)	T	Tetrahydrofuran			0.333	0.344	0.358	0.348	0.346	0.346	2.53
42)	T	Bromodichlorom...			0.700	0.659	0.703	0.684	0.707	0.691	2.84
43)		Methyl Methacr...			0.340	0.336	0.349	0.338	0.341	0.341	1.41
44)	T	2,2,4-Trimethy...			1.450	1.501	1.566	1.457	1.444	1.484	3.45
45)	T	t-1,3-Dichloro...			0.300	0.292	0.319	0.338	0.346	0.319	7.38
46)	T	cis-1,3-Dichlo...			0.371	0.391	0.439	0.446	0.447	0.419	8.43
47)	T	1,1,2-Trichlor...			0.340	0.345	0.350	0.333	0.336	0.341	2.06
48)	T	Dibromochlorom...			0.490	0.489	0.541	0.545	0.566	0.526	6.64
49)	T	Bromoform			0.379	0.394	0.439	0.460	0.488	0.432	10.53
50)	T	4-Methyl-2-Pen...			0.892	0.870	0.899	0.833	0.846	0.868	3.29
51)	T	2-Hexanone			0.622	0.640	0.739	0.652	0.683	0.667	6.91
52)	T	Tetrachloroethene	0.320	0.348	0.317	0.329	0.330	0.292	0.291	0.318	6.46
53)	T	Toluene			0.934	0.996	1.048	1.011	1.008	0.999	4.14
54)	T	1,2-Dibromoethane	0.440		0.488	0.468	0.494	0.454	0.470	0.469	4.32
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.502	0.514	0.510	0.481	0.488	0.499	2.86
57)	T	Chlorobenzene			0.986	0.968	0.977	0.848	0.832	0.922	8.18
58)	T	Ethyl Benzene			1.507	1.563	1.653	1.551	1.541	1.563	3.49
59)	T	m/p-Xylene			1.186	1.265	1.355	1.223	1.234	1.253	5.10
60)	T	o-Xylene			1.179	1.241	1.348	1.224	1.224	1.243	5.06
61)	T	Styrene			0.516	0.515	0.576	0.587	0.595	0.558	7.02
62)		Isopropylbenzene			1.927	1.925	2.066	1.854	1.848	1.924	4.56
63)	T	1,1,2,2-Tetrac...	0.756		0.816	0.845	0.858	0.751	0.741	0.795	6.52
64)		n-propylbenzene			0.481	0.495	0.521	0.469	0.464	0.486	4.78
65)		tert-Butylbenzene			1.746	1.782	1.919	1.675	1.645	1.753	6.12
66)	T	Benzyl Chloride			0.102	0.093	0.113	0.115	0.119	0.109	9.71
67)		sec-Butylbenzene			2.389	2.457	2.681	2.299	2.246	2.414	7.04
68)	S	1-Bromo-4-Fluo...	0.783	0.785	0.784	0.792	0.795	0.782	0.792	0.788	0.65
69)		p-Isopropyltol...			1.852	2.013	2.256	1.927	1.892	1.988	8.11
70)		n-Butylbenzene			1.867	2.048	2.206	1.898	1.840	1.972	7.80
71)		2-Chlorotoluene			1.394	1.410	1.537	1.389	1.385	1.423	4.54
72)	T	4-Ethyltoluene			1.442	1.447	1.610	1.466	1.472	1.487	4.67
73)	T	1,3,5-Trimethy...			1.222	1.360	1.448	1.263	1.275	1.313	6.88
74)	T	1,2,4-Trimethy...			1.359	1.456	1.607	1.346	1.344	1.422	7.97
75)	T	1,3-Dichlorobe...			0.881	0.884	0.903	0.776	0.771	0.843	7.61
76)	T	1,4-Dichlorobe...			0.830	0.859	0.889	0.769	0.777	0.825	6.29
77)	T	1,2-Dichlorobe...			0.863	0.902	0.909	0.757	0.745	0.835	9.43
78)	T	Hexachloro-1,3...			0.747	0.742	0.772	0.586	0.582	0.686	13.66
79)	T	Naphthalene	0.978		1.479	1.682	1.941	1.255	1.259	1.432	24.01
80)	T	Naphthalene,2-...			0.572	0.724	1.151	0.463	0.485	0.679	41.70
81)	T	1,2,4-Trichlor...			0.745	0.738	0.819	0.598	0.596	0.699	14.10

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041888.D
 Acq On : 14 Jan 2025 11:40
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Jan 14 21:19:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	151983	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	455570	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	395574	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	317243	10.182	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	11222	0.542	ppbv	97
3) Chlorodifluoromethane	1.476	51	11427	0.527	ppbv	98
4) Chloromethane	1.534	50	4633	0.595	ppbv #	88
5) Vinyl Chloride	1.583	62	4109	0.521	ppbv	90
6) Bromomethane	1.670	94	1954	0.520	ppbv #	77
7) Chloroethane	1.709	64	1671	0.545	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	8917	0.493	ppbv	99
9) Propene	1.486	41	4949	0.554	ppbv	91
10) Heptane	4.994	43	11425	0.478	ppbv	97
11) Trichlorofluoromethane	1.881	101	9906	0.460	ppbv	89
12) 1,1,2-Trichlorotrifluo...	2.143	101	8347	0.495	ppbv	99
13) Ethanol	1.729	45	553	0.845	ppbv #	52
14) Bromoethene	1.784	108	2955	0.478	ppbv #	82
15) Acetone	1.842	43	10038	0.550	ppbv	90
16) 1,3-Butadiene	1.612	39	4829	0.589	ppbv	91
17) tert-Butyl alcohol	2.049	59	10637	0.473	ppbv #	88
18) 1,1-Dichloroethene	2.036	96	3626	0.477	ppbv	95
19) Isopropyl Alcohol	1.891	45	6365	0.588	ppbv #	32
20) Methylene Chloride	2.065	84	4359	0.604	ppbv	91
21) Allyl Chloride	2.101	41	6185	0.489	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	4132	0.481	ppbv	91
23) Vinyl Acetate	2.467	43	4508	0.567	ppbv #	92
24) 1,1-Dichloroethane	2.412	63	8388	0.505	ppbv #	94
25) Ethyl Acetate	2.849	43	24398	0.496	ppbv #	96
26) Hexane	2.836	57	10331	0.531	ppbv	99
27) Carbon Disulfide	2.153	76	8804	0.457	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	6336	0.426	ppbv	95
29) Chloroform	2.855	83	15742	0.512	ppbv	95
30) Cyclohexane	3.868	84	6553	0.388	ppbv #	60
31) cis-1,2-Dichloroethene	2.344	61	7218	0.352	ppbv	96
32) 1,1,1-Trichloroethane	3.376	97	14604	0.496	ppbv	95
34) 2-Butanone	2.567	43	15277	0.527	ppbv	97
35) Carbon Tetrachloride	3.768	117	14044	0.490	ppbv	84
36) Benzene	3.664	78	21546	0.516	ppbv	96
37) 1,2-Dichloroethane	3.227	62	11973	0.510	ppbv	98
38) Trichloroethene	4.561	130	7688	0.463	ppbv #	89
39) 1,2-Dichloropropane	4.337	63	1610	0.110	ppbv	95
40) 1,4-Dioxane	4.613	88	1107	0.150	ppbv #	1
41) Tetrahydrofuran	3.069	42	8443	0.534	ppbv	97
42) Bromodichloromethane	4.502	83	15340	0.488	ppbv	89
43) Methyl Methacrylate	4.891	69	7309	0.471	ppbv #	90
44) 2,2,4-Trimethylpentane	4.648	57	20546	0.304	ppbv #	42
45) t-1,3-Dichloropropene	6.419	75	1770	0.122	ppbv #	86

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041888.D
 Acq On : 14 Jan 2025 11:40
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Jan 14 21:19:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

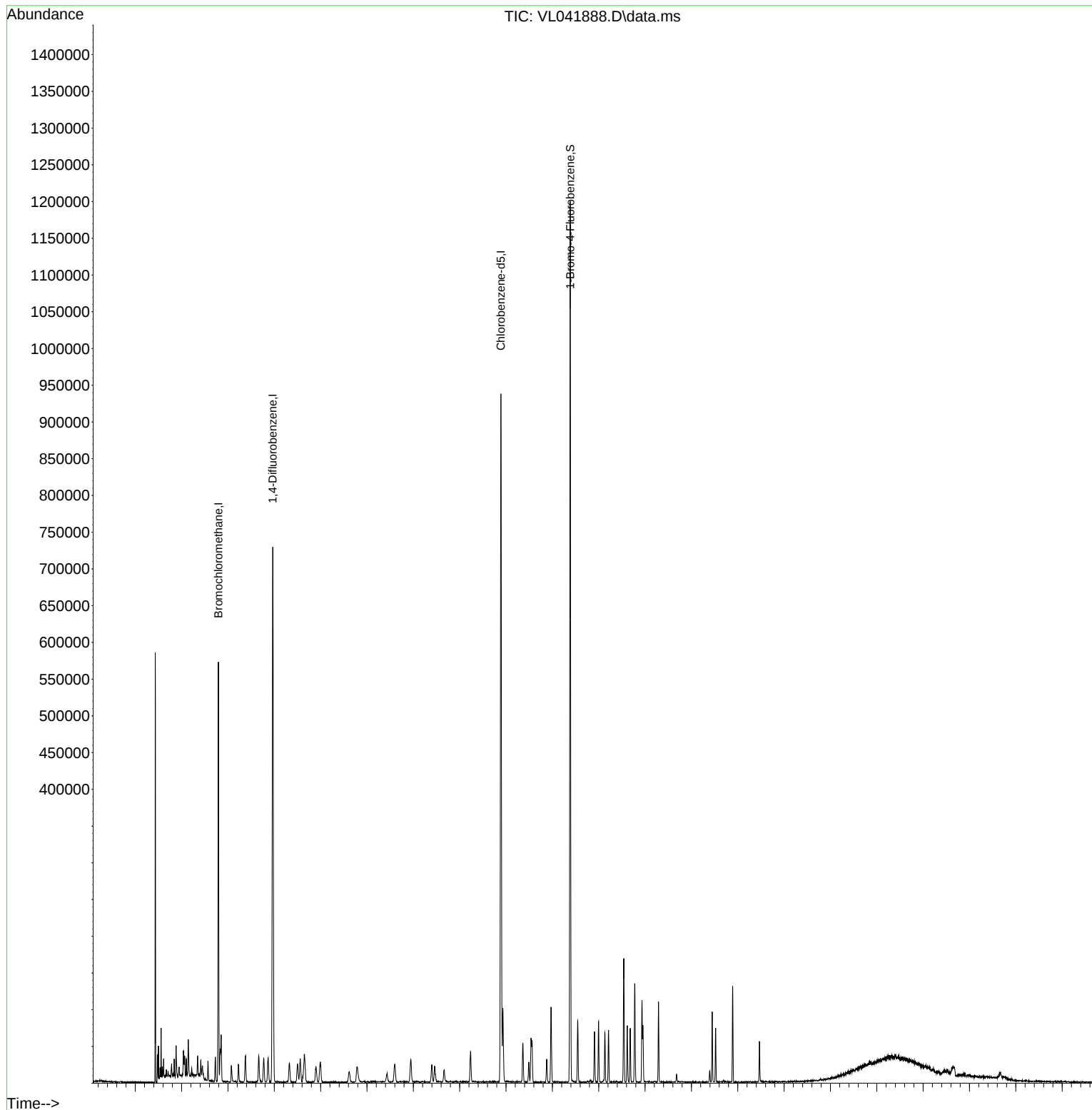
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	4470	0.234	ppbv	95
47) 1,1,2-Trichloroethane	6.597	97	3651	0.235	ppbv #	91
48) Dibromochloromethane	7.399	129	11087	0.463	ppbv	99
49) Bromoform	9.490	173	9073	0.461	ppbv	97
50) 4-Methyl-2-Pentanone	5.774	43	4977	0.126	ppbv #	39
51) 2-Hexanone	7.458	43	7862	0.259	ppbv #	35
52) Tetrachloroethene	8.234	164	7221	0.498	ppbv #	85
53) Toluene	6.946	91	22160	0.487	ppbv	92
54) 1,2-Dibromoethane	7.661	107	10815	0.506	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.933	131	9870	0.500	ppbv #	1
57) Chlorobenzene	8.930	112	19334	0.530	ppbv #	88
58) Ethyl Benzene	9.361	91	30456	0.493	ppbv	97
59) m/p-Xylene	9.561	91	19790	0.399	ppbv #	1
60) o-Xylene	9.969	91	24142	0.491	ppbv	94
61) Styrene	9.879	104	10428	0.473	ppbv	99
62) Isopropylbenzene	10.549	105	38174	0.502	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	16637	0.537	ppbv	99
64) n-propylbenzene	10.995	120	8606	0.448	ppbv	85
65) tert-Butylbenzene	11.539	119	33232	0.479	ppbv	100
66) Benzyl Chloride	11.620	91	2397	0.558	ppbv #	96
67) sec-Butylbenzene	11.775	105	47437	0.497	ppbv	98
69) p-Isopropyltoluene	11.934	119	38770	0.493	ppbv	97
70) n-Butylbenzene	12.290	91	38146	0.489	ppbv	97
71) 2-Chlorotoluene	10.911	91	27534	0.489	ppbv	99
72) 4-Ethyltoluene	11.131	105	28313	0.481	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	25156	0.484	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	27444	0.488	ppbv	96
75) 1,3-Dichlorobenzene	11.617	146	17033	0.511	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	17963	0.551	ppbv	94
77) 1,2-Dichlorobenzene	11.953	146	17772	0.538	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	13201	0.487	ppbv	98
79) Naphthalene	13.523	128	32709	0.577	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	15991	0.595	ppbv	96
81) 1,2,4-Trichlorobenzene	13.452	180	15628	0.565	ppbv	94

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041888.D
Acq On : 14 Jan 2025 11:40
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Quant Time: Jan 14 21:19:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 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 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	152325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	449256	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	400269	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	313194	9.934	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	197959	9.541	ppbv	100
3) Chlorodifluoromethane	1.479	51	202651	9.323	ppbv	100
4) Chloromethane	1.538	50	74977	9.608	ppbv	100
5) Vinyl Chloride	1.583	62	71006	8.984	ppbv	100
6) Bromomethane	1.674	94	34817	9.243	ppbv	100
7) Chloroethane	1.709	64	29349	9.544	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	166754	9.196	ppbv	100
9) Propene	1.486	41	86544	9.665	ppbv	100
10) Heptane	5.001	43	233062	9.738	ppbv	100
11) Trichlorofluoromethane	1.884	101	203374	9.423	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	160993	9.517	ppbv	100
13) Ethanol	1.725	45	4155	6.335	ppbv	98
14) Bromoethene	1.787	108	56447	9.114	ppbv	100
15) Acetone	1.842	43	151022	8.255	ppbv	100
16) 1,3-Butadiene	1.612	39	75244	9.163	ppbv	100
17) tert-Butyl alcohol	2.046	59	213109	9.464	ppbv	100
18) 1,1-Dichloroethene	2.039	96	69825	9.158	ppbv	100
19) Isopropyl Alcohol	1.890	45	94532	8.714	ppbv	100
20) Methylene Chloride	2.068	84	59427	8.219	ppbv	100
21) Allyl Chloride	2.101	41	120681	9.526	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	82326	9.568	ppbv	100
23) Vinyl Acetate	2.470	43	81885	10.281	ppbv	100
24) 1,1-Dichloroethane	2.418	63	154838	9.303	ppbv	100
25) Ethyl Acetate	2.845	43	471257	9.552	ppbv	100
26) Hexane	2.835	57	192009	9.841	ppbv	100
27) Carbon Disulfide	2.156	76	191567	9.921	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	117898	7.905	ppbv	100
29) Chloroform	2.858	83	291118	9.438	ppbv	100
30) Cyclohexane	3.868	84	164788	9.737	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	193774	9.432	ppbv	100
32) 1,1,1-Trichloroethane	3.379	97	290126	9.830	ppbv	100
34) 2-Butanone	2.567	43	270263	9.459	ppbv	100
35) Carbon Tetrachloride	3.777	117	291448	10.309	ppbv	100
36) Benzene	3.671	78	396344	9.619	ppbv	100
37) 1,2-Dichloroethane	3.230	62	221352	9.565	ppbv	100
38) Trichloroethene	4.564	130	159253	9.736	ppbv	100
39) 1,2-Dichloropropane	4.331	63	137090	9.484	ppbv	100
40) 1,4-Dioxane	4.606	88	66200	9.075	ppbv #	94
41) Tetrahydrofuran	3.065	42	156141	10.023	ppbv	100
42) Bromodichloromethane	4.509	83	307176	9.900	ppbv	100
43) Methyl Methacrylate	4.897	69	152001	9.930	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	654395	9.819	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	151920	10.603	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 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 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	200330	10.649	ppbv	100
47) 1,1,2-Trichloroethane	6.600	97	149634	9.766	ppbv	100
48) Dibromochloromethane	7.402	129	245066	10.368	ppbv	100
49) Bromoform	9.496	173	206751	10.649	ppbv	100
50) 4-Methyl-2-Pentanone	5.778	43	374267	9.615	ppbv	100
51) 2-Hexanone	7.454	43	292941	9.775	ppbv #	100
52) Tetrachloroethene	8.241	164	131334	9.193	ppbv	100
53) Toluene	6.952	91	454085	10.116	ppbv	100
54) 1,2-Dibromoethane	7.668	107	203859	9.679	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	192449	9.637	ppbv	99
57) Chlorobenzene	8.937	112	339570	9.197	ppbv	100
58) Ethyl Benzene	9.367	91	620719	9.923	ppbv	100
59) m/p-Xylene	9.564	91	979297m	19.504	ppbv	
60) o-Xylene	9.979	91	490108	9.848	ppbv	100
61) Styrene	9.885	104	234901	10.522	ppbv	100
62) Isopropylbenzene	10.552	105	742261	9.638	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	300600	9.596	ppbv	100
64) n-propylbenzene	11.002	120	187706	9.646	ppbv	99
65) tert-Butylbenzene	11.542	119	670259	9.550	ppbv	100
66) Benzyl Chloride	11.626	91	46008	10.591	ppbv	100
67) sec-Butylbenzene	11.778	105	920046	9.521	ppbv	100
69) p-Isopropyltoluene	11.937	119	771465	9.694	ppbv	100
70) n-Butylbenzene	12.293	91	759785	9.627	ppbv	100
71) 2-Chlorotoluene	10.914	91	556170	9.763	ppbv	100
72) 4-Ethyltoluene	11.137	105	586667	9.855	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	505443	9.614	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	538665	9.461	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	310421	9.201	ppbv	100
76) 1,4-Dichlorobenzene	11.684	146	307758	9.324	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	303196	9.068	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	234457	8.543	ppbv	100
79) Naphthalene	13.526	128	502354	8.764	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	185336	6.819	ppbv	100
81) 1,2,4-Trichlorobenzene	13.452	180	239317	8.553	ppbv	100

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

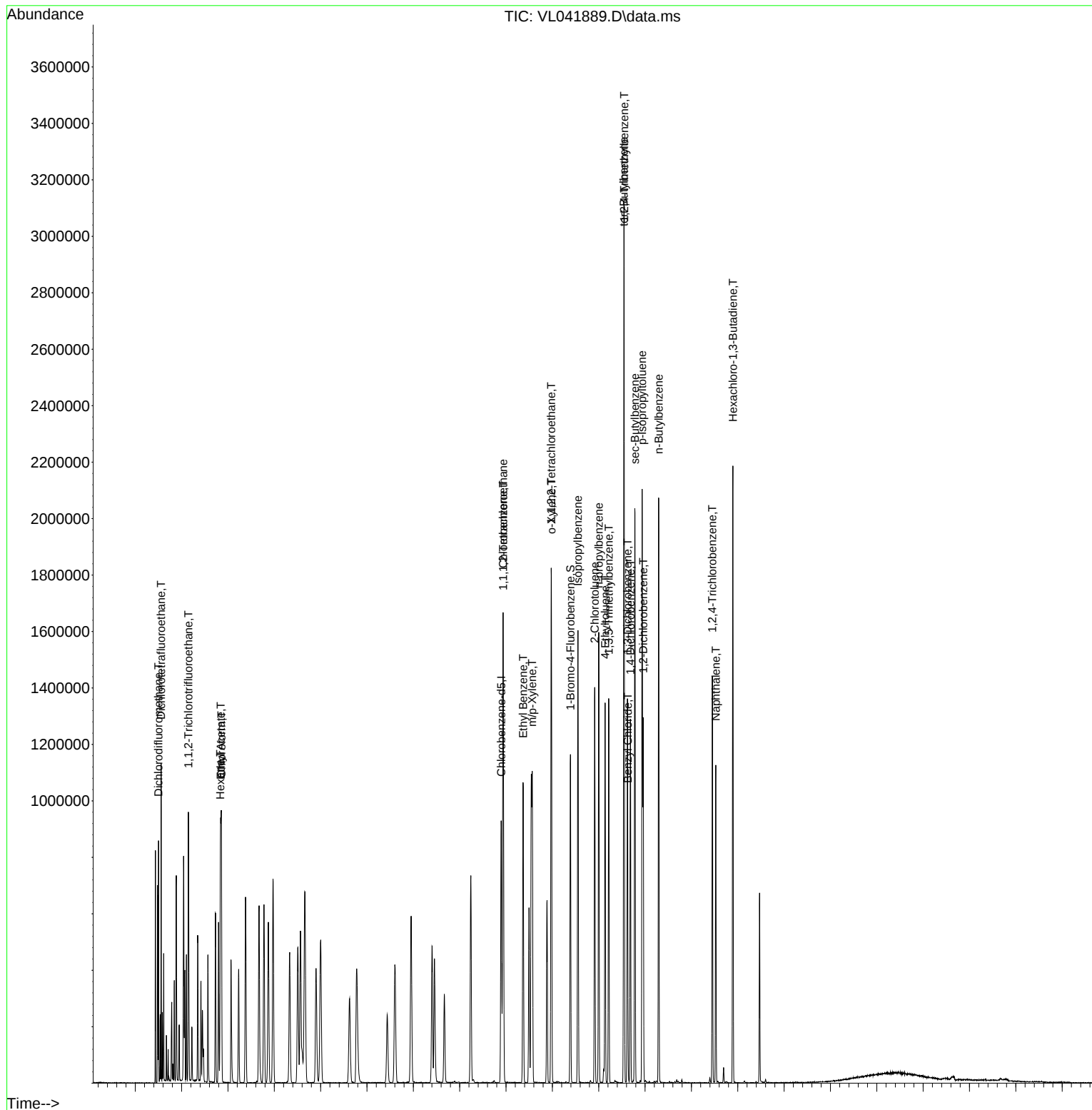
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Jan 14 21:20:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	150761	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	452131	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	394865	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	313784	10.089	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.900%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	40991	1.996	ppbv	98
3) Chlorodifluoromethane	1.479	51	44207	2.055	ppbv	99
4) Chloromethane	1.538	50	15833	2.050	ppbv	93
5) Vinyl Chloride	1.583	62	15137	1.935	ppbv	99
6) Bromomethane	1.673	94	7486	2.008	ppbv	91
7) Chloroethane	1.709	64	6303	2.071	ppbv #	84
8) Dichlorotetrafluoroethane	1.557	85	36941	2.058	ppbv	99
9) Propene	1.486	41	18248	2.059	ppbv	95
10) Heptane	5.001	43	49302	2.081	ppbv	97
11) Trichlorofluoromethane	1.884	101	43266	2.025	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	35162	2.100	ppbv	97
13) Ethanol	1.725	45	1534	2.363	ppbv	84
14) Bromoethene	1.787	108	12163	1.984	ppbv #	95
15) Acetone	1.842	43	37867	2.091	ppbv	99
16) 1,3-Butadiene	1.612	39	16446	2.024	ppbv	100
17) tert-Butyl alcohol	2.049	59	45305	2.033	ppbv	99
18) 1,1-Dichloroethene	2.039	96	15508	2.055	ppbv	97
19) Isopropyl Alcohol	1.894	45	21530	2.005	ppbv	94
20) Methylene Chloride	2.068	84	14399	2.012	ppbv	95
21) Allyl Chloride	2.104	41	25533	2.036	ppbv	97
22) trans-1,2-Dichloroethene	2.350	96	17951	2.108	ppbv	83
23) Vinyl Acetate	2.470	43	16358	2.075	ppbv	99
24) 1,1-Dichloroethane	2.418	63	33175	2.014	ppbv	99
25) Ethyl Acetate	2.848	43	102475	2.099	ppbv	99
26) Hexane	2.835	57	41844	2.167	ppbv	99
27) Carbon Disulfide	2.156	76	39306	2.057	ppbv #	70
28) Methyl tert-Butyl Ether	2.454	73	30355	2.056	ppbv	96
29) Chloroform	2.858	83	63457	2.079	ppbv	94
30) Cyclohexane	3.874	84	34518	2.061	ppbv	97
31) cis-1,2-Dichloroethene	2.729	61	41921	2.062	ppbv	89
32) 1,1,1-Trichloroethane	3.382	97	58965	2.019	ppbv	98
34) 2-Butanone	2.570	43	61381	2.135	ppbv	99
35) Carbon Tetrachloride	3.777	117	59430	2.089	ppbv	95
36) Benzene	3.670	78	85859	2.070	ppbv	96
37) 1,2-Dichloroethane	3.230	62	46786	2.009	ppbv	100
38) Trichloroethene	4.564	130	33773	2.052	ppbv	98
39) 1,2-Dichloropropane	4.334	63	29723	2.043	ppbv	96
40) 1,4-Dioxane	4.619	88	14566m	1.984	ppbv	
41) Tetrahydrofuran	3.072	42	32358	2.064	ppbv	96
42) Bromodichloromethane	4.509	83	63611	2.037	ppbv	99
43) Methyl Methacrylate	4.900	69	31519	2.046	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	141602	2.111	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	28818	1.999	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 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 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	39668	2.095	ppbv	94
47) 1,1,2-Trichloroethane	6.600	97	31694m	2.055	ppbv	
48) Dibromochloromethane	7.406	129	48894	2.055	ppbv	99
49) Bromoform	9.496	173	39710	2.032	ppbv	99
50) 4-Methyl-2-Pentanone	5.784	43	81330	2.076	ppbv	98
51) 2-Hexanone	7.457	43	66831	2.216	ppbv #	98
52) Tetrachloroethene	8.241	164	29814	2.074	ppbv	94
53) Toluene	6.952	91	94741	2.097	ppbv	98
54) 1,2-Dibromoethane	7.671	107	44636	2.106	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.940	131	40249	2.043	ppbv	93
57) Chlorobenzene	8.933	112	77180	2.119	ppbv	94
58) Ethyl Benzene	9.367	91	130554	2.116	ppbv	98
59) m/p-Xylene	9.561	91	214076m	4.322	ppbv	
60) o-Xylene	9.975	91	106458	2.168	ppbv	99
61) Styrene	9.885	104	45490	2.065	ppbv	99
62) Isopropylbenzene	10.552	105	163135	2.147	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.975	83	67775	2.193	ppbv	99
64) n-propylbenzene	11.001	120	41184	2.145	ppbv	99
65) tert-Butylbenzene	11.542	119	151534	2.189	ppbv	97
66) Benzyl Chloride	11.626	91	8925	2.083	ppbv	97
67) sec-Butylbenzene	11.778	105	211759	2.221	ppbv	99
69) p-Isopropyltoluene	11.937	119	178172	2.270	ppbv	100
70) n-Butylbenzene	12.293	91	174217	2.238	ppbv	99
71) 2-Chlorotoluene	10.914	91	121418	2.161	ppbv	100
72) 4-Ethyltoluene	11.137	105	127115	2.164	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	114342	2.205	ppbv	99
74) 1,2,4-Trimethylbenzene	11.548	105	126939	2.260	ppbv #	89
75) 1,3-Dichlorobenzene	11.616	146	71332	2.143	ppbv	98
76) 1,4-Dichlorobenzene	11.684	146	70219	2.156	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	71818	2.177	ppbv	100
78) Hexachloro-1,3-Butadiene	13.892	225	60984	2.253	ppbv	99
79) Naphthalene	13.526	128	153268	2.710	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	90910	3.391	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	64653	2.342	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	151226	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	453418	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	393836	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 312013 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	21262	1.032	ppbv	95
3) Chlorodifluoromethane	1.479	51	23396	1.084	ppbv	100
4) Chloromethane	1.534	50	7546	0.974	ppbv	94
5) Vinyl Chloride	1.583	62	8031	1.023	ppbv	97
6) Bromomethane	1.674	94	4139	1.107	ppbv #	81
7) Chloroethane	1.709	64	3093	1.013	ppbv	92
8) Dichlorotetrafluoroethane	1.557	85	18122	1.007	ppbv	100
9) Propene	1.486	41	8719	0.981	ppbv	93
10) Heptane	5.001	43	24438	1.029	ppbv	96
11) Trichlorofluoromethane	1.884	101	21425	1.000	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	17187	1.023	ppbv	95
13) Ethanol	1.725	45	650	0.998	ppbv #	29
14) Bromoethene	1.787	108	6736	1.096	ppbv #	88
15) Acetone	1.842	43	19681	1.084	ppbv	95
16) 1,3-Butadiene	1.612	39	8901	1.092	ppbv	98
17) tert-Butyl alcohol	2.049	59	23571	1.054	ppbv	95
18) 1,1-Dichloroethene	2.039	96	7819m	1.033	ppbv	
19) Isopropyl Alcohol	1.894	45	11054	1.026	ppbv #	32
20) Methylene Chloride	2.065	84	7608	1.060	ppbv #	89
21) Allyl Chloride	2.101	41	12451	0.990	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	8819	1.032	ppbv	96
23) Vinyl Acetate	2.470	43	7181	0.908	ppbv #	93
24) 1,1-Dichloroethane	2.415	63	16623	1.006	ppbv	97
25) Ethyl Acetate	2.845	43	50690	1.035	ppbv	98
26) Hexane	2.836	57	18893	0.975	ppbv	86
27) Carbon Disulfide	2.156	76	18993	0.991	ppbv #	23
28) Methyl tert-Butyl Ether	2.450	73	17955	1.213	ppbv	98
29) Chloroform	2.858	83	31155	1.017	ppbv	97
30) Cyclohexane	3.871	84	18048	1.074	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	21124	1.036	ppbv	99
32) 1,1,1-Trichloroethane	3.383	97	30396	1.037	ppbv	98
34) 2-Butanone	2.570	43	29280	1.015	ppbv	99
35) Carbon Tetrachloride	3.774	117	27946	0.979	ppbv	96
36) Benzene	3.671	78	43023	1.035	ppbv	93
37) 1,2-Dichloroethane	3.230	62	23402	1.002	ppbv	98
38) Trichloroethene	4.564	130	16954m	1.027	ppbv	
39) 1,2-Dichloropropane	4.331	63	14570	0.999	ppbv	98
40) 1,4-Dioxane	4.613	88	7345m	0.998	ppbv	
41) Tetrahydrofuran	3.075	42	15580m	0.991	ppbv	
42) Bromodichloromethane	4.509	83	29893m	0.955	ppbv	
43) Methyl Methacrylate	4.901	69	15222	0.985	ppbv	95
44) 2,2,4-Trimethylpentane	4.661	57	68050	1.012	ppbv	98
45) t-1,3-Dichloropropene	6.438	75	13220	0.914	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	17749	0.935	ppbv	97
47) 1,1,2-Trichloroethane	6.603	97	15658m	1.013	ppbv	
48) Dibromochloromethane	7.402	129	22169	0.929	ppbv	100
49) Bromoform	9.497	173	17876	0.912	ppbv	100
50) 4-Methyl-2-Pentanone	5.787	43	39436m	1.004	ppbv	
51) 2-Hexanone	7.464	43	28999	0.959	ppbv #	95
52) Tetrachloroethene	8.244	164	14903	1.034	ppbv #	80
53) Toluene	6.956	91	45140m	0.996	ppbv	
54) 1,2-Dibromoethane	7.668	107	21202	0.997	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.937	131	20255	1.031	ppbv	94
57) Chlorobenzene	8.933	112	38141	1.050	ppbv	98
58) Ethyl Benzene	9.367	91	61537	1.000	ppbv	99
59) m/p-Xylene	9.561	91	99618m	2.016	ppbv	
60) o-Xylene	9.972	91	48888	0.998	ppbv	98
61) Styrene	9.882	104	20285	0.923	ppbv	99
62) Isopropylbenzene	10.549	105	75801	1.000	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	33289	1.080	ppbv	97
64) n-propylbenzene	11.002	120	19511	1.019	ppbv	99
65) tert-Butylbenzene	11.539	119	70183	1.016	ppbv	98
66) Benzyl Chloride	11.626	91	3681m	0.861	ppbv	
67) sec-Butylbenzene	11.778	105	96749	1.018	ppbv	97
69) p-Isopropyltoluene	11.937	119	79283	1.013	ppbv	98
70) n-Butylbenzene	12.290	91	80664	1.039	ppbv	99
71) 2-Chlorotoluene	10.911	91	55540	0.991	ppbv	99
72) 4-Ethyltoluene	11.134	105	56973	0.973	ppbv	97
73) 1,3,5-Trimethylbenzene	11.215	105	53550	1.035	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	57352	1.024	ppbv	96
75) 1,3-Dichlorobenzene	11.617	146	34810	1.049	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	33822	1.041	ppbv	97
77) 1,2-Dichlorobenzene	11.960	146	35516	1.080	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	29210	1.082	ppbv	99
79) Naphthalene	13.523	128	66232	1.174	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	28506	1.066	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	29053	1.055	ppbv	99

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

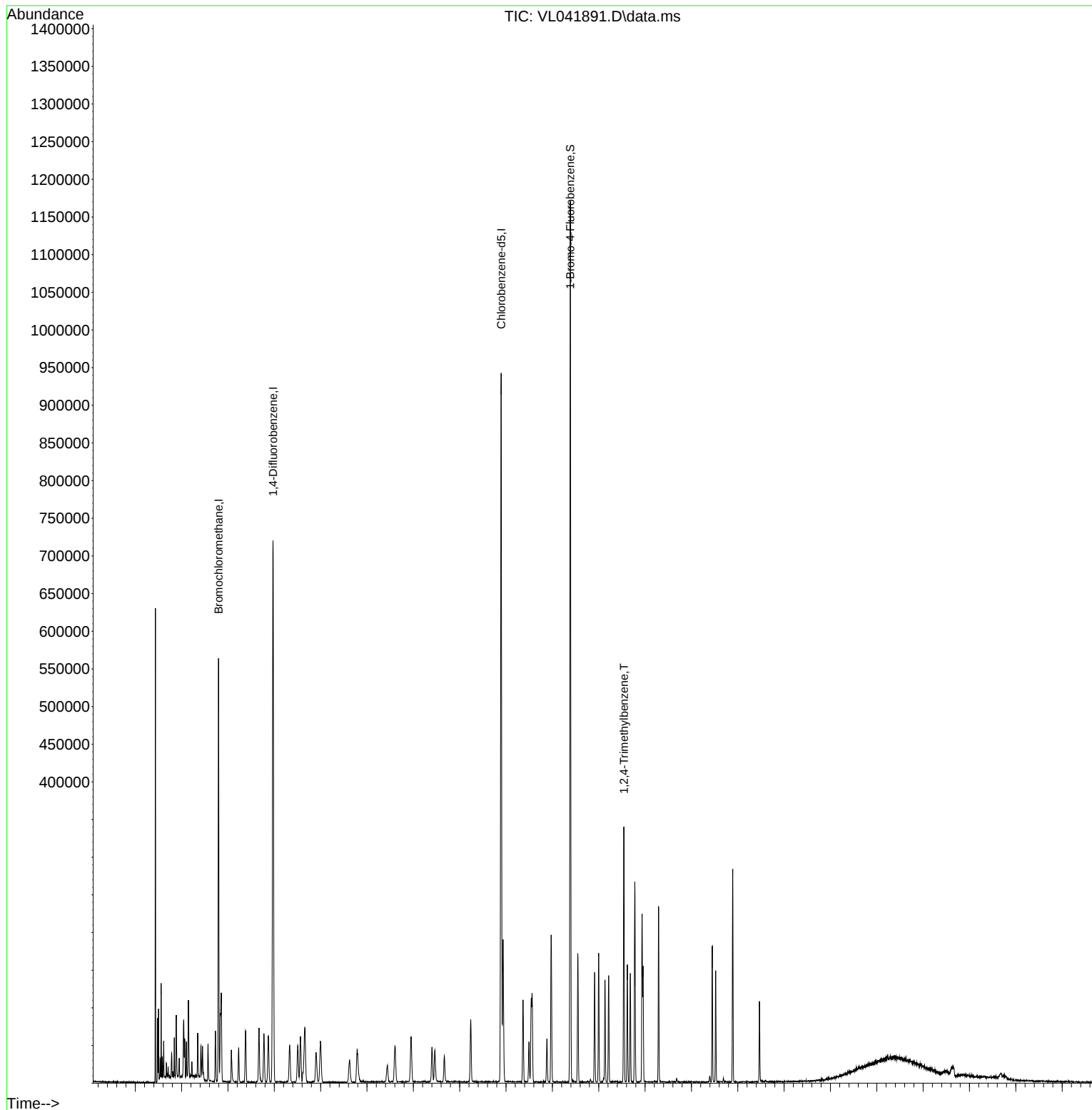
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	146186	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	430874	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	379402	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	297462	9.954	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	10599	0.532	ppbv	99
3) Chlorodifluoromethane	1.476	51	10582	0.507	ppbv	98
4) Chloromethane	1.534	50	3990	0.533	ppbv	98
5) Vinyl Chloride	1.580	62	4097	0.540	ppbv	94
6) Bromomethane	1.670	94	1852	0.512	ppbv #	78
7) Chloroethane	1.706	64	1532	0.519	ppbv #	77
8) Dichlorotetrafluoroethane	1.557	85	9372	0.539	ppbv	95
9) Propene	1.486	41	4690	0.546	ppbv	85
10) Heptane	4.988	43	11230	0.489	ppbv	95
11) Trichlorofluoromethane	1.881	101	10873	0.525	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	8027	0.494	ppbv	90
13) Ethanol	1.725	45	478m	0.759	ppbv	
14) Bromoethene	1.784	108	3071	0.517	ppbv #	94
15) Acetone	1.839	43	10273	0.585	ppbv	99
16) 1,3-Butadiene	1.612	39	4038	0.512	ppbv	99
17) tert-Butyl alcohol	2.046	59	11158	0.516	ppbv #	94
18) 1,1-Dichloroethene	2.036	96	3803	0.520	ppbv	95
19) Isopropyl Alcohol	1.891	45	6317	0.607	ppbv #	32
20) Methylene Chloride	2.065	84	4286	0.618	ppbv	93
21) Allyl Chloride	2.101	41	6553	0.539	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	4015	0.486	ppbv	89
23) Vinyl Acetate	2.467	43	6381m	0.835	ppbv	
24) 1,1-Dichloroethane	2.415	63	8512	0.533	ppbv	97
25) Ethyl Acetate	2.845	43	23529	0.497	ppbv	97
26) Hexane	2.829	57	9246m	0.494	ppbv	
27) Carbon Disulfide	2.153	76	8847	0.477	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	7621	0.532	ppbv	97
29) Chloroform	2.855	83	15360	0.519	ppbv	92
30) Cyclohexane	3.871	84	7579	0.467	ppbv	92
31) cis-1,2-Dichloroethene	2.726	61	10275	0.521	ppbv #	89
32) 1,1,1-Trichloroethane	3.379	97	14198	0.501	ppbv	98
34) 2-Butanone	2.567	43	13981	0.510	ppbv	94
35) Carbon Tetrachloride	3.774	117	12590	0.464	ppbv	89
36) Benzene	3.667	78	19954	0.505	ppbv	95
37) 1,2-Dichloroethane	3.227	62	11613	0.523	ppbv	97
38) Trichloroethene	4.561	130	8199	0.523	ppbv #	89
39) 1,2-Dichloropropane	4.324	63	7526m	0.543	ppbv	
40) 1,4-Dioxane	4.616	88	4031m	0.576	ppbv	
41) Tetrahydrofuran	3.072	42	7183	0.481	ppbv	94
42) Bromodichloromethane	4.499	83	15081m	0.507	ppbv	
43) Methyl Methacrylate	4.891	69	7332m	0.499	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	31243	0.489	ppbv	95
45) t-1,3-Dichloropropene	6.428	75	6465m	0.470	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	7986m	0.443	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	7324	0.498	ppbv #	84
48) Dibromochloromethane	7.393	129	10548m	0.465	ppbv	
49) Bromoform	9.493	173	8162	0.438	ppbv	97
50) 4-Methyl-2-Pentanone	5.794	43	19221m	0.515	ppbv	
51) 2-Hexanone	7.454	43	13390	0.466	ppbv #	97
52) Tetrachloroethene	8.238	164	6821m	0.498	ppbv	
53) Toluene	6.946	91	20118	0.467	ppbv	96
54) 1,2-Dibromoethane	7.665	107	10511	0.520	ppbv	89
56) 1,1,1,2-Tetrachloroethane	8.930	131	9524	0.503	ppbv #	1
57) Chlorobenzene	8.930	112	18701	0.534	ppbv #	90
58) Ethyl Benzene	9.364	91	28584	0.482	ppbv #	88
59) m/p-Xylene	9.558	91	45003m	0.946	ppbv	
60) o-Xylene	9.972	91	22370	0.474	ppbv	97
61) Styrene	9.879	104	9788	0.463	ppbv	99
62) Isopropylbenzene	10.545	105	36561	0.501	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	15485	0.521	ppbv	98
64) n-propylbenzene	10.995	120	9128	0.495	ppbv	93
65) tert-Butylbenzene	11.536	119	33122	0.498	ppbv	98
66) Benzyl Chloride	11.620	91	1935	0.470	ppbv	99
67) sec-Butylbenzene	11.775	105	45326	0.495	ppbv	98
69) p-Isopropyltoluene	11.931	119	35136	0.466	ppbv	98
70) n-Butylbenzene	12.287	91	35409	0.473	ppbv	96
71) 2-Chlorotoluene	10.908	91	26436	0.490	ppbv	99
72) 4-Ethyltoluene	11.131	105	27363	0.485	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	23183	0.465	ppbv	93
74) 1,2,4-Trimethylbenzene	11.545	105	25777	0.478	ppbv	89
75) 1,3-Dichlorobenzene	11.610	146	16708	0.522	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	15738	0.503	ppbv	96
77) 1,2-Dichlorobenzene	11.953	146	16364	0.516	ppbv	93
78) Hexachloro-1,3-Butadiene	13.892	225	14162	0.544	ppbv	96
79) Naphthalene	13.520	128	28052	0.516	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	10859	0.422	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	14136	0.533	ppbv	95

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

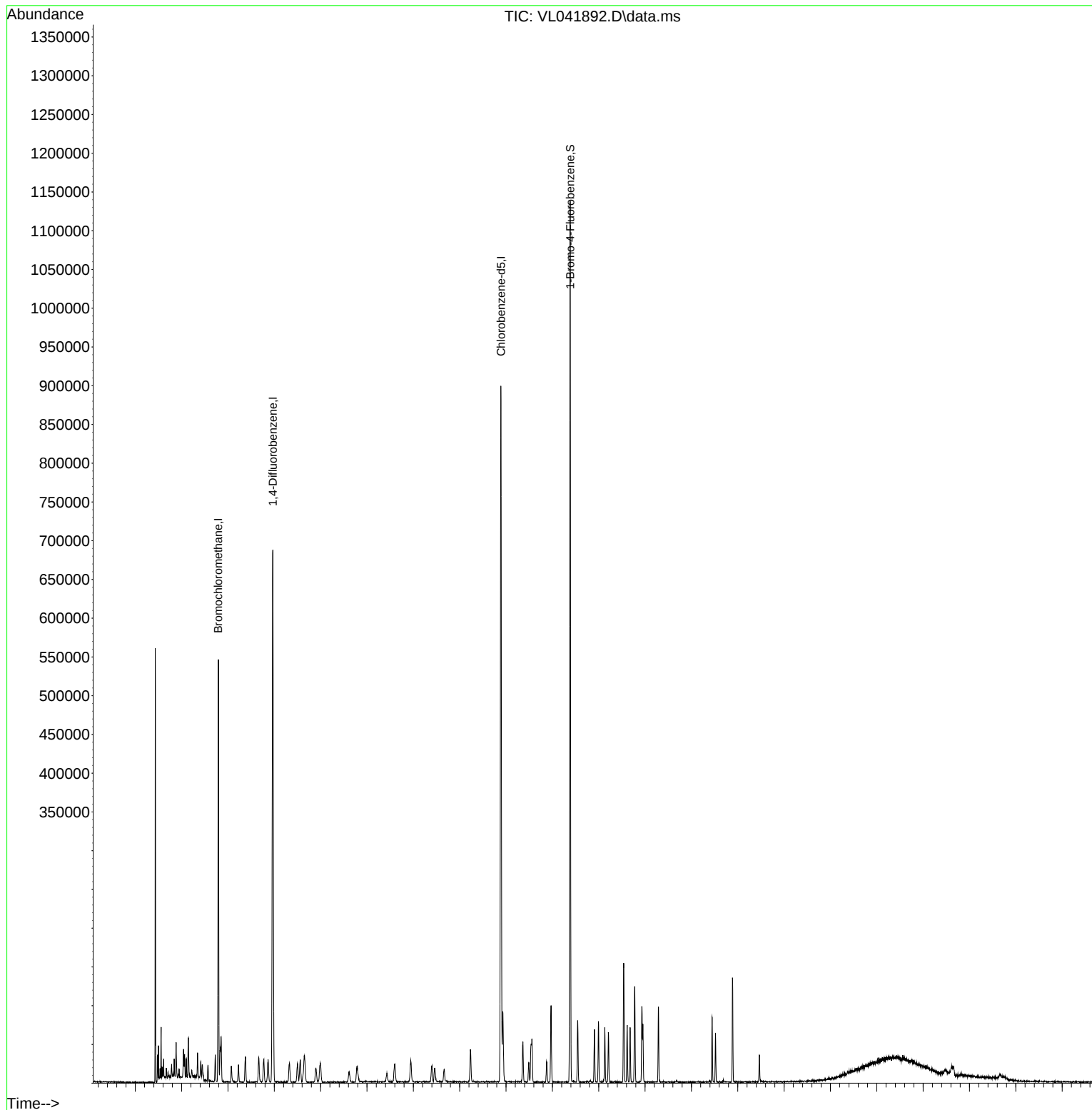
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041893.D
 Acq On : 14 Jan 2025 15:01
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 22:42:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	143362	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	425675	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	372545	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	292283	9.961	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.583	62	828	0.111	ppbv	96
32) 1,1,1-Trichloroethane	3.383	97	2640m	0.095	ppbv	
35) Carbon Tetrachloride	3.768	117	2587m	0.097	ppbv	
38) Trichloroethene	4.557	130	1816m	0.117	ppbv	
52) Tetrachloroethene	8.234	164	1480m	0.109	ppbv	
54) 1,2-Dibromoethane	7.668	107	1872m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.976	83	2816	0.097	ppbv	95
79) Naphthalene	13.520	128	3643	0.068	ppbv #	96

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

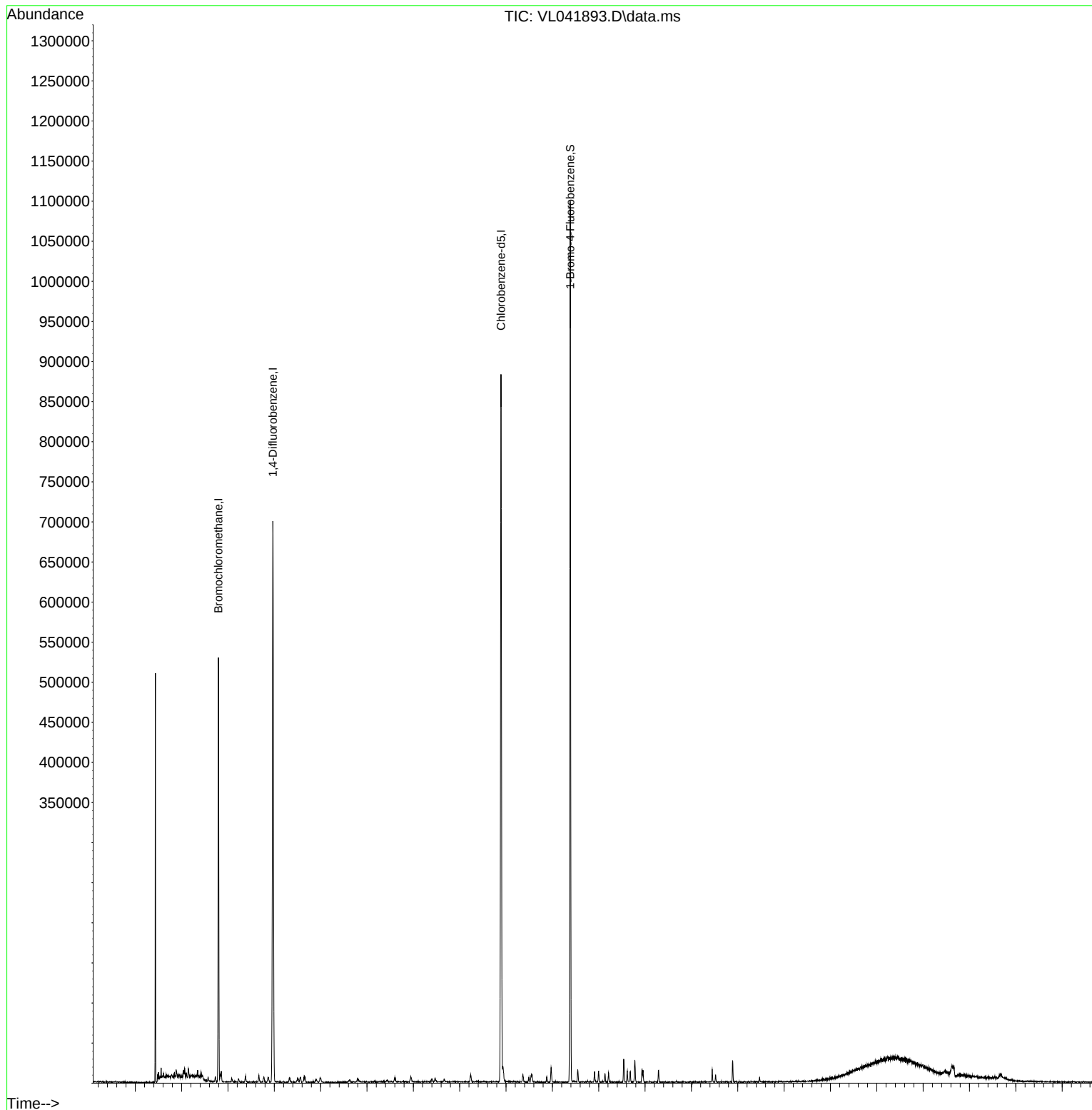
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041894.D
 Acq On : 14 Jan 2025 15:32
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	424686	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	367402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	287792	9.945	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
52) Tetrachloroethene	8.250	164	408m	0.030	ppbv	Qvalue

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

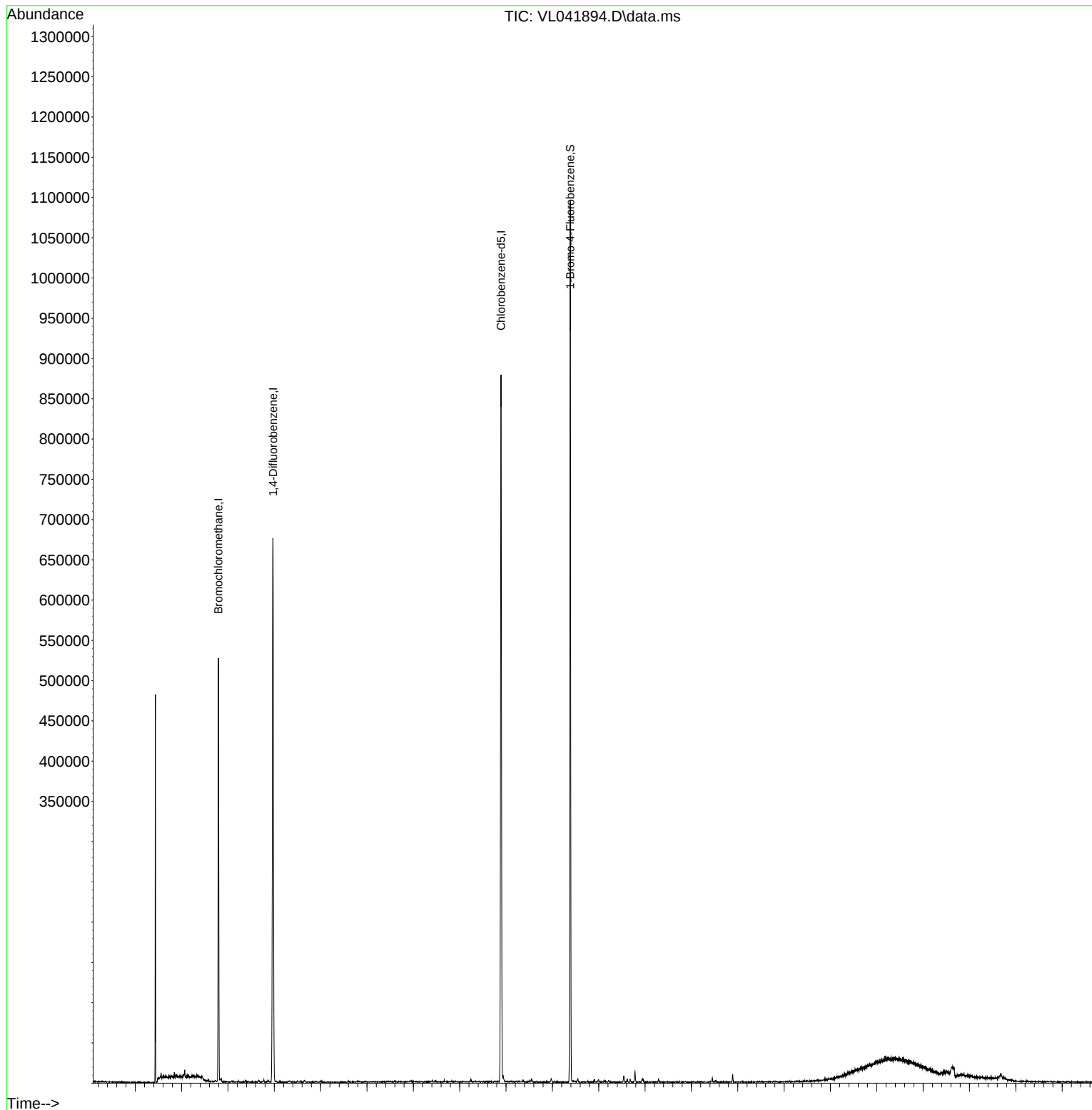
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDIC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Jan 14 21:21:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.793	49	141652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	419859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	383799	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	304042	10.058	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.600%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	275248	14.266	ppbv	100
3) Chlorodifluoromethane	1.479	51	285437	14.121	ppbv	98
4) Chloromethane	1.534	50	106071	14.617	ppbv	98
5) Vinyl Chloride	1.583	62	104404	14.204	ppbv	98
6) Bromomethane	1.670	94	49415	14.106	ppbv	91
7) Chloroethane	1.709	64	41130	14.383	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	244666	14.510	ppbv	100
9) Propene	1.486	41	116343	13.972	ppbv	99
10) Heptane	4.998	43	326897	14.688	ppbv	98
11) Trichlorofluoromethane	1.881	101	299656	14.930	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	232607	14.787	ppbv	100
13) Ethanol	1.725	45	6109	10.016	ppbv	83
14) Bromoethene	1.784	108	83586	14.513	ppbv	98
15) Acetone	1.839	43	223353	13.128	ppbv	99
16) 1,3-Butadiene	1.612	39	109420	14.329	ppbv	99
17) tert-Butyl alcohol	2.046	59	298424	14.252	ppbv	99
18) 1,1-Dichloroethene	2.039	96	104645	14.759	ppbv	92
19) Isopropyl Alcohol	1.890	45	134050	13.288	ppbv	98
20) Methylene Chloride	2.065	84	88425	13.151	ppbv	98
21) Allyl Chloride	2.101	41	169875	14.419	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	118169	14.768	ppbv	97
23) Vinyl Acetate	2.470	43	116632	15.747	ppbv	98
24) 1,1-Dichloroethane	2.415	63	230015	14.862	ppbv	99
25) Ethyl Acetate	2.842	43	665170	14.499	ppbv	100
26) Hexane	2.836	57	263948	14.547	ppbv	97
27) Carbon Disulfide	2.156	76	278476	15.509	ppbv	99
28) Methyl tert-Butyl Ether	2.447	73	187986	13.555	ppbv	98
29) Chloroform	2.858	83	413733	14.424	ppbv	98
30) Cyclohexane	3.868	84	233398	14.830	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	271739	14.223	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	419117	15.271	ppbv	99
34) 2-Butanone	2.564	43	380813	14.262	ppbv	99
35) Carbon Tetrachloride	3.774	117	426619	16.146	ppbv	97
36) Benzene	3.667	78	553665	14.378	ppbv	100
37) 1,2-Dichloroethane	3.227	62	321362	14.859	ppbv	99
38) Trichloroethene	4.564	130	222328	14.543	ppbv	98
39) 1,2-Dichloropropane	4.328	63	191532	14.179	ppbv	98
40) 1,4-Dioxane	4.596	88	97521	14.305	ppbv #	93
41) Tetrahydrofuran	3.062	42	217707	14.953	ppbv	99
42) Bromodichloromethane	4.502	83	445130	15.351	ppbv	95
43) Methyl Methacrylate	4.894	69	214564	14.999	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	909437	14.601	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	218001	16.281	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	281492	16.011	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	211658	14.782	ppbv	95
48) Dibromochloromethane	7.402	129	356392	16.134	ppbv	100
49) Bromoform	9.493	173	307617	16.953	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	533053	14.653	ppbv	99
51) 2-Hexanone	7.451	43	430297	15.363	ppbv #	97
52) Tetrachloroethene	8.237	164	183208	13.721	ppbv	96
53) Toluene	6.949	91	634515	15.126	ppbv	99
54) 1,2-Dibromoethane	7.665	107	295967	15.036	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.937	131	280809	14.665	ppbv	98
57) Chlorobenzene	8.933	112	479092	13.533	ppbv	99
58) Ethyl Benzene	9.367	91	887072	14.789	ppbv	100
59) m/p-Xylene	9.565	91	1420585m	29.506	ppbv	
60) o-Xylene	9.976	91	704577	14.765	ppbv	100
61) Styrene	9.882	104	342490	15.999	ppbv	99
62) Isopropylbenzene	10.548	105	1063809	14.406	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	426347	14.194	ppbv	100
64) n-propylbenzene	10.998	120	266972	14.308	ppbv	100
65) tert-Butylbenzene	11.542	119	947297	14.077	ppbv	98
66) Benzyl Chloride	11.626	91	68623	16.475	ppbv	98
67) sec-Butylbenzene	11.778	105	1292858	13.952	ppbv	100
69) p-Isopropyltoluene	11.937	119	1089109	14.273	ppbv	99
70) n-Butylbenzene	12.290	91	1059002	13.994	ppbv	99
71) 2-Chlorotoluene	10.911	91	797555	14.601	ppbv	100
72) 4-Ethyltoluene	11.134	105	847451	14.846	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	733759	14.556	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	773569	14.170	ppbv	92
75) 1,3-Dichlorobenzene	11.620	146	443828	13.720	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	447164	14.129	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	429118	13.385	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	335016	12.731	ppbv	100
79) Naphthalene	13.523	128	724573	13.183	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	278955	10.704	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	342977	12.784	ppbv	98

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

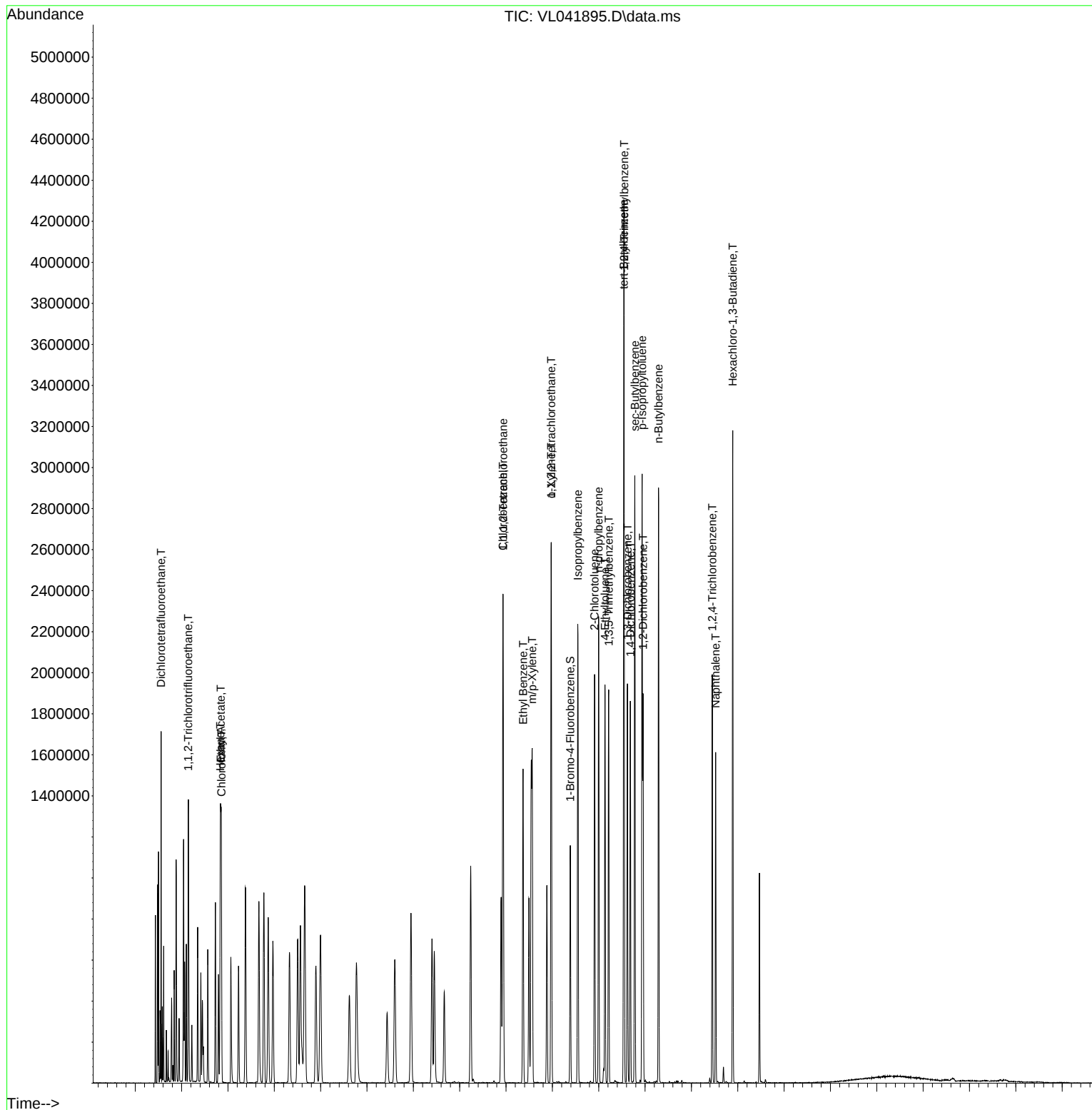
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141664	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	417936	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	373391	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 298000 10.133 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	190925	9.894	ppbv	97
3) Chlorodifluoromethane	1.479	51	200455	9.916	ppbv	100
4) Chloromethane	1.534	50	71767	9.889	ppbv	95
5) Vinyl Chloride	1.583	62	71974	9.791	ppbv	94
6) Bromomethane	1.670	94	33594	9.589	ppbv	96
7) Chloroethane	1.706	64	29553	10.333	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	163783	9.712	ppbv	99
9) Propene	1.486	41	82320	9.886	ppbv	99
10) Heptane	4.998	43	225230	10.119	ppbv	99
11) Trichlorofluoromethane	1.881	101	198523	9.890	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	159862	10.162	ppbv	100
13) Ethanol	1.725	45	3780	6.197	ppbv	97
14) Bromoethene	1.784	108	57260	9.941	ppbv	98
15) Acetone	1.839	43	150112	8.822	ppbv	98
16) 1,3-Butadiene	1.612	39	73640	9.643	ppbv	100
17) tert-Butyl alcohol	2.046	59	204358	9.758	ppbv	98
18) 1,1-Dichloroethene	2.039	96	71011	10.015	ppbv	96
19) Isopropyl Alcohol	1.890	45	93592	9.277	ppbv	97
20) Methylene Chloride	2.065	84	60115	8.940	ppbv	97
21) Allyl Chloride	2.101	41	118907	10.092	ppbv	97
22) trans-1,2-Dichloroethene	2.347	96	77379	9.669	ppbv	96
23) Vinyl Acetate	2.470	43	80428	9.536	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	155440	10.042	ppbv	98
25) Ethyl Acetate	2.842	43	458484	9.993	ppbv	100
26) Hexane	2.832	57	184436	10.164	ppbv	99
27) Carbon Disulfide	2.156	76	186668	10.395	ppbv	98
28) Methyl tert-Butyl Ether	2.447	73	112489	8.110	ppbv	99
29) Chloroform	2.855	83	282467	9.847	ppbv	99
30) Cyclohexane	3.865	84	159296	10.120	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	187012	9.787	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	284661	10.371	ppbv	99
34) 2-Butanone	2.564	43	261536	9.840	ppbv	99
35) Carbon Tetrachloride	3.771	117	285391	10.871	ppbv	96
36) Benzene	3.667	78	374271	9.764	ppbv	99
37) 1,2-Dichloroethane	3.227	62	214545	9.966	ppbv	100
38) Trichloroethene	4.564	130	153255	10.075	ppbv	95
39) 1,2-Dichloropropane	4.324	63	130483	9.704	ppbv	97
40) 1,4-Dioxane	4.599	88	63736	9.386	ppbv #	99
41) Tetrahydrofuran	3.062	42	148132	10.255	ppbv	98
42) Bromodichloromethane	4.506	83	299656	10.381	ppbv	96
43) Methyl Methacrylate	4.894	69	145663	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.654	57	619804	9.997	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	145145	10.889	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	186898	10.680	ppbv	98
47) 1,1,2-Trichloroethane	6.596	97	140891	9.886	ppbv	97
48) Dibromochloromethane	7.399	129	238244	10.835	ppbv	100
49) Bromoform	9.493	173	201141	11.136	ppbv	99
50) 4-Methyl-2-Pentanone	5.771	43	363675	10.023	ppbv	99
51) 2-Hexanone	7.451	43	284058	10.189	ppbv #	99
52) Tetrachloroethene	8.237	164	127806	9.616	ppbv	98
53) Toluene	6.949	91	427033	10.227	ppbv	99
54) 1,2-Dibromoethane	7.665	107	199339	10.175	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.937	131	188209	10.103	ppbv	99
57) Chlorobenzene	8.933	112	329025	9.553	ppbv	99
58) Ethyl Benzene	9.364	91	601857	10.314	ppbv	99
59) m/p-Xylene	9.561	91	964838m	20.628	ppbv	
60) o-Xylene	9.972	91	480442	10.348	ppbv	100
61) Styrene	9.878	104	229797	11.034	ppbv	99
62) Isopropylbenzene	10.548	105	728189	10.136	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	290998	9.809	ppbv	100
64) n-propylbenzene	10.998	120	182397	10.048	ppbv	98
65) tert-Butylbenzene	11.539	119	657521	10.043	ppbv	100
66) Benzyl Chloride	11.623	91	42509	10.490	ppbv #	97
67) sec-Butylbenzene	11.778	105	901260	9.997	ppbv	98
69) p-Isopropyltoluene	11.934	119	745566	10.043	ppbv	99
70) n-Butylbenzene	12.290	91	733637	9.965	ppbv	99
71) 2-Chlorotoluene	10.911	91	543858	10.234	ppbv	100
72) 4-Ethyltoluene	11.134	105	568921	10.245	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	493388	10.061	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	528225	9.946	ppbv	98
75) 1,3-Dichlorobenzene	11.617	146	304133	9.664	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	297765	9.670	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	298039	9.555	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	228592	8.929	ppbv	99
79) Naphthalene	13.523	128	497063	9.295	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	187571	7.398	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	236181	9.049	ppbv	99

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

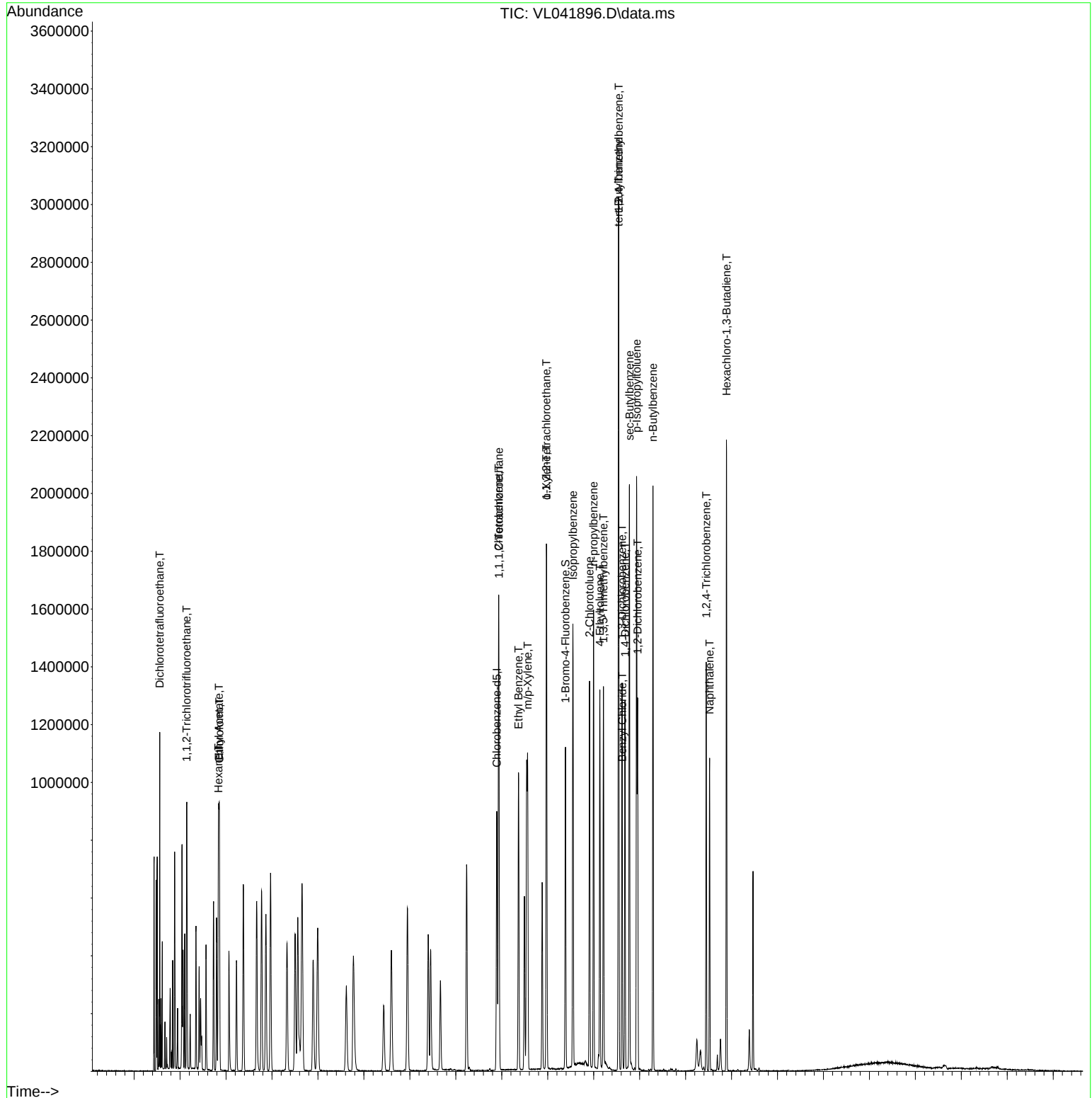
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 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	1.362	1.348	1.0	96	0.00
3	Chlorodifluoromethane	1.427	1.415	0.8	99	0.00
4	Chloromethane	0.512	0.507	1.0	96	0.00
5 T	Vinyl Chloride	0.519	0.508	2.1	101	0.00
6 T	Bromomethane	0.247	0.237	4.0	96	0.00
7	Chloroethane	0.202	0.209	-3.5	101	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.156	2.9	98	0.00
9 T	Propene	0.588	0.581	1.2	95	0.00
10 T	Heptane	1.571	1.590	-1.2	97	0.00
11 T	Trichlorofluoromethane	1.417	1.401	1.1	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.128	-1.6	99	0.00
13	Ethanol	0.043	0.027#	37.2#	91	0.00
14 T	Bromoethene	0.407	0.404	0.7	101	0.00
15 T	Acetone	1.201	1.060	11.7	99	0.00
16 T	1,3-Butadiene	0.539	0.520	3.5	98	0.00
17	tert-Butyl alcohol	1.478	1.443	2.4	96	0.00
18 T	1,1-Dichloroethene	0.501	0.501	0.0	102	0.00
19 T	Isopropyl Alcohol	0.712	0.661	7.2	99	0.00
20 T	Methylene Chloride	0.475	0.424	10.7	101	0.00
21 T	Allyl Chloride	0.832	0.839	-0.8	99	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.546	3.4	94	0.00
23 T	Vinyl Acetate	0.595	0.568	4.5	98	0.00
24 T	1,1-Dichloroethane	1.093	1.097	-0.4	100	0.00
25 T	Ethyl Acetate	3.239	3.236	0.1	97	0.00
26 T	Hexane	1.281	1.302	-1.6	96	0.00
27 T	Carbon Disulfide	1.268	1.318	-3.9	97	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.794	18.9	95	0.00
29 T	Chloroform	2.025	1.994	1.5	97	0.00
30 T	Cyclohexane	1.111	1.124	-1.2	97	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.320	2.1	97	0.00
32 T	1,1,1-Trichloroethane	1.938	2.009	-3.7	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34 T	2-Butanone	0.636	0.626	1.6	97	0.00
35 T	Carbon Tetrachloride	0.628	0.683	-8.8	98	0.00
36 T	Benzene	0.917	0.896	2.3	94	0.00
37 T	1,2-Dichloroethane	0.515	0.513	0.4	97	0.00
38 T	Trichloroethene	0.364	0.367	-0.8	96	0.00
39 T	1,2-Dichloropropane	0.322	0.312	3.1	95	0.00
40 T	1,4-Dioxane	0.162	0.153	5.6	96	0.00
41 T	Tetrahydrofuran	0.346	0.354	-2.3	95	0.00
42 T	Bromodichloromethane	0.691	0.717	-3.8	98	0.00
43	Methyl Methacrylate	0.341	0.349	-2.3	96	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.483	0.1	95	0.00
45 T	t-1,3-Dichloropropene	0.319	0.347	-8.8	96	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.447	-6.7	93	0.00
47 T	1,1,2-Trichloroethane	0.341	0.337	1.2	94	0.00
48 T	Dibromochloromethane	0.526	0.570	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 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	0.432	0.481	-11.3	97	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.870	-0.2	97	0.00
51 T	2-Hexanone	0.667	0.680	-1.9	97	0.00
52 T	Tetrachloroethene	0.318	0.306	3.8	97	0.00
53 T	Toluene	0.999	1.022	-2.3	94	0.00
54 T	1,2-Dibromoethane	0.469	0.477	-1.7	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.504	-1.0	98	0.00
57 T	Chlorobenzene	0.922	0.881	4.4	97	0.00
58 T	Ethyl Benzene	1.563	1.612	-3.1	97	0.00
59 T	m/p-Xylene	1.253	1.292	-3.1	99	0.00
60 T	o-Xylene	1.243	1.287	-3.5	98	0.00
61 T	Styrene	0.558	0.615	-10.2	98	0.00
62	Isopropylbenzene	1.924	1.950	-1.4	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.779	2.0	97	0.00
64	n-propylbenzene	0.486	0.488	-0.4	97	0.00
65	tert-Butylbenzene	1.753	1.761	-0.5	98	0.00
66 T	Benzyl Chloride	0.109	0.114	-4.6	92	0.00
67	sec-Butylbenzene	2.414	2.414	0.0	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.798	-1.3	95	0.00
69	p-Isopropyltoluene	1.988	1.997	-0.5	97	0.00
70	n-Butylbenzene	1.972	1.965	0.4	97	0.00
71	2-Chlorotoluene	1.423	1.457	-2.4	98	0.00
72 T	4-Ethyltoluene	1.487	1.524	-2.5	97	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.321	-0.6	98	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.415	0.5	98	0.00
75 T	1,3-Dichlorobenzene	0.843	0.815	3.3	98	0.00
76 T	1,4-Dichlorobenzene	0.825	0.797	3.4	97	0.00
77 T	1,2-Dichlorobenzene	0.835	0.798	4.4	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.612	10.8	97	0.00
79 T	Naphthalene	1.432	1.331	7.1	99	0.00
80 T	Naphthalene,2-methyl-	0.679	0.502	26.1	101	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.633	9.4	99	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 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	9.894	1.1	96	0.00
3	Chlorodifluoromethane	10.000	9.916	0.8	99	0.00
4	Chloromethane	10.000	9.889	1.1	96	0.00
5 T	Vinyl Chloride	10.000	9.791	2.1	101	0.00
6 T	Bromomethane	10.000	9.589	4.1	96	0.00
7	Chloroethane	10.000	10.333	-3.3	101	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.712	2.9	98	0.00
9 T	Propene	10.000	9.886	1.1	95	0.00
10 T	Heptane	10.000	10.119	-1.2	97	0.00
11 T	Trichlorofluoromethane	10.000	9.890	1.1	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	10.162	-1.6	99	0.00
13	Ethanol	10.000	6.197	38.0#	91	0.00
14 T	Bromoethene	10.000	9.941	0.6	101	0.00
15 T	Acetone	10.000	8.822	11.8	99	0.00
16 T	1,3-Butadiene	10.000	9.643	3.6	98	0.00
17	tert-Butyl alcohol	10.000	9.758	2.4	96	0.00
18 T	1,1-Dichloroethene	10.000	10.015	-0.2	102	0.00
19 T	Isopropyl Alcohol	10.000	9.277	7.2	99	0.00
20 T	Methylene Chloride	10.000	8.940	10.6	101	0.00
21 T	Allyl Chloride	10.000	10.092	-0.9	99	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.669	3.3	94	0.00
23 T	Vinyl Acetate	10.000	9.536	4.6	98	0.00
24 T	1,1-Dichloroethane	10.000	10.042	-0.4	100	0.00
25 T	Ethyl Acetate	10.000	9.993	0.1	97	0.00
26 T	Hexane	10.000	10.164	-1.6	96	0.00
27 T	Carbon Disulfide	10.000	10.395	-3.9	97	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.110	18.9	95	0.00
29 T	Chloroform	10.000	9.847	1.5	97	0.00
30 T	Cyclohexane	10.000	10.120	-1.2	97	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.787	2.1	97	0.00
32 T	1,1,1-Trichloroethane	10.000	10.371	-3.7	98	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	93	0.00
34 T	2-Butanone	10.000	9.840	1.6	97	0.00
35 T	Carbon Tetrachloride	10.000	10.871	-8.7	98	0.00
36 T	Benzene	10.000	9.764	2.4	94	0.00
37 T	1,2-Dichloroethane	10.000	9.966	0.3	97	0.00
38 T	Trichloroethene	10.000	10.075	-0.7	96	0.00
39 T	1,2-Dichloropropane	10.000	9.704	3.0	95	0.00
40 T	1,4-Dioxane	10.000	9.386	6.1	96	0.00
41 T	Tetrahydrofuran	10.000	10.255	-2.6	95	0.00
42 T	Bromodichloromethane	10.000	10.381	-3.8	98	0.00
43	Methyl Methacrylate	10.000	10.229	-2.3	96	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.997	0.0	95	0.00
45 T	t-1,3-Dichloropropene	10.000	10.889	-8.9	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.680	-6.8	93	0.00
47 T	1,1,2-Trichloroethane	10.000	9.886	1.1	94	0.00
48 T	Dibromochloromethane	10.000	10.835	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	11.136	-11.4	97	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.023	-0.2	97	0.00
51 T	2-Hexanone	10.000	10.189	-1.9	97	0.00
52 T	Tetrachloroethene	10.000	9.616	3.8	97	0.00
53 T	Toluene	10.000	10.227	-2.3	94	0.00
54 T	1,2-Dibromoethane	10.000	10.175	-1.8	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	10.000	10.103	-1.0	98	0.00
57 T	Chlorobenzene	10.000	9.553	4.5	97	0.00
58 T	Ethyl Benzene	10.000	10.314	-3.1	97	0.00
59 T	m/p-Xylene	20.000	20.628	-3.1	99	0.00
60 T	o-Xylene	10.000	10.348	-3.5	98	0.00
61 T	Styrene	10.000	11.034	-10.3	98	0.00
62	Isopropylbenzene	10.000	10.136	-1.4	98	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.809	1.9	97	0.00
64	n-propylbenzene	10.000	10.048	-0.5	97	0.00
65	tert-Butylbenzene	10.000	10.043	-0.4	98	0.00
66 T	Benzyl Chloride	10.000	10.490	-4.9	92	0.00
67	sec-Butylbenzene	10.000	9.997	0.0	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.133	-1.3	95	0.00
69	p-Isopropyltoluene	10.000	10.043	-0.4	97	0.00
70	n-Butylbenzene	10.000	9.965	0.4	97	0.00
71	2-Chlorotoluene	10.000	10.234	-2.3	98	0.00
72 T	4-Ethyltoluene	10.000	10.245	-2.4	97	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.061	-0.6	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.946	0.5	98	0.00
75 T	1,3-Dichlorobenzene	10.000	9.664	3.4	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.670	3.3	97	0.00
77 T	1,2-Dichlorobenzene	10.000	9.555	4.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.929	10.7	97	0.00
79 T	Naphthalene	10.000	9.295	7.1	99	0.00
80 T	Naphthalene,2-methyl-	10.000	7.398	26.0	101	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.049	9.5	99	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.: Q1138 SAS No.: Q1138 SDG No.: Q1138

Instrument ID: MSVOA_L Calibration Date/Time: 01/20/2025 12:25

Lab File ID: VL041917.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:55 16:05

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.519	0.532		2.51	30
1,1-Dichloroethene	0.501	0.488		-2.6	30
cis-1,2-Dichloroethene	1.349	1.365		1.19	30
1,1,1-Trichloroethane	1.938	2.087		7.69	30
Trichloroethene	0.364	0.380		4.4	30
Tetrachloroethene	0.318	0.313		-1.57	30
1-Bromo-4-Fluorobenzene	0.788	0.800		1.52	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\VL012025\
 Data File : VL041917.D
 Acq On : 20 Jan 2025 12:25
 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 01/21/2025
 Supervised By : Mahesh Dadoda 01/21/2025

Quant Time: Jan 21 03:02:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	141673	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.955	114	411747	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	366617	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 293204 10.154 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	203725	10.557	ppbv	99
3) Chlorodifluoromethane	1.473	51	206837	10.231	ppbv	98
4) Chloromethane	1.531	50	74817	10.309	ppbv	98
5) Vinyl Chloride	1.576	62	75435	10.262	ppbv	94
6) Bromomethane	1.667	94	34889	9.958	ppbv	93
7) Chloroethane	1.703	64	29546	10.330	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	171284	10.156	ppbv	100
9) Propene	1.483	41	84715	10.173	ppbv	98
10) Heptane	4.975	43	229131	10.294	ppbv	100
11) Trichlorofluoromethane	1.874	101	197469	9.837	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	160467	10.200	ppbv	99
13) Ethanol	1.719	45	3749	6.146	ppbv	94
14) Bromoethene	1.780	108	56412	9.793	ppbv	99
15) Acetone	1.832	43	153081	8.996	ppbv	98
16) 1,3-Butadiene	1.606	39	76981	10.080	ppbv	97
17) tert-Butyl alcohol	2.039	59	188440	8.998	ppbv	99
18) 1,1-Dichloroethene	2.033	96	69158	9.753	ppbv	90
19) Isopropyl Alcohol	1.884	45	89019	8.823	ppbv	92
20) Methylene Chloride	2.059	84	57546	8.557	ppbv	96
21) Allyl Chloride	2.094	41	119961	10.181	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	79830	9.975	ppbv	97
23) Vinyl Acetate	2.460	43	79276	9.399	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	155899	10.071	ppbv	100
25) Ethyl Acetate	2.832	43	472214	10.291	ppbv	100
26) Hexane	2.823	57	189473	10.441	ppbv	98
27) Carbon Disulfide	2.146	76	191777	10.679	ppbv	98
28) Methyl tert-Butyl Ether	2.441	73	134406	9.690	ppbv	99
29) Chloroform	2.845	83	293833	10.243	ppbv	99
30) Cyclohexane	3.852	84	164556	10.454	ppbv	96
31) cis-1,2-Dichloroethene	2.719	61	193337	10.118	ppbv	94
32) 1,1,1-Trichloroethane	3.363	97	295721	10.773	ppbv	99
34) 2-Butanone	2.554	43	279040	10.656	ppbv	99
35) Carbon Tetrachloride	3.758	117	297344	11.497	ppbv	99
36) Benzene	3.651	78	390961	10.353	ppbv	98
37) 1,2-Dichloroethane	3.214	62	226025	10.657	ppbv	99
38) Trichloroethene	4.541	130	156566	10.447	ppbv	96
39) 1,2-Dichloropropane	4.308	63	135938	10.262	ppbv	98
40) 1,4-Dioxane	4.580	88	62682	9.370	ppbv #	91
41) Tetrahydrofuran	3.052	42	153011	10.752	ppbv	98
42) Bromodichloromethane	4.486	83	311544	10.955	ppbv	98
43) Methyl Methacrylate	4.878	69	146142	10.417	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	643085	10.528	ppbv	100
45) t-1,3-Dichloropropene	6.409	75	147278	11.215	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041917.D
 Acq On : 20 Jan 2025 12:25
 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 01/21/2025
 Supervised By : Mahesh Dadoda 01/21/2025

Quant Time: Jan 21 03:02:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	191623	11.114	ppbv	97
47) 1,1,2-Trichloroethane	6.577	97	151234	10.772	ppbv	96
48) Dibromochloromethane	7.383	129	250059	11.543	ppbv	98
49) Bromoform	9.480	173	208438	11.713	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	380994	10.658	ppbv	99
51) 2-Hexanone	7.435	43	296893	10.809	ppbv #	98
52) Tetrachloroethene	8.221	164	128925	9.846	ppbv	97
53) Toluene	6.927	91	441480	10.732	ppbv	99
54) 1,2-Dibromoethane	7.648	107	208665	10.811	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	196915	10.766	ppbv	99
57) Chlorobenzene	8.917	112	344297	10.181	ppbv	97
58) Ethyl Benzene	9.351	91	621872	10.854	ppbv	98
59) m/p-Xylene	9.545	91	998348m	21.739	ppbv	
60) o-Xylene	9.963	91	501346	10.998	ppbv	99
61) Styrene	9.869	104	230415	11.268	ppbv	100
62) Isopropylbenzene	10.535	105	754701	10.699	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	308812	10.602	ppbv	99
64) n-propylbenzene	10.989	120	191700	10.756	ppbv	99
65) tert-Butylbenzene	11.529	119	689403	10.725	ppbv	99
66) Benzyl Chloride	11.613	91	43319	10.888	ppbv	99
67) sec-Butylbenzene	11.765	105	942685	10.650	ppbv	100
69) p-Isopropyltoluene	11.924	119	791581	10.860	ppbv	100
70) n-Butylbenzene	12.280	91	761646	10.537	ppbv	100
71) 2-Chlorotoluene	10.898	91	559890	10.730	ppbv	100
72) 4-Ethyltoluene	11.124	105	594409	10.901	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	519084	10.780	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	556666	10.675	ppbv	95
75) 1,3-Dichlorobenzene	11.607	146	318934	10.321	ppbv	100
76) 1,4-Dichlorobenzene	11.671	146	318485	10.535	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	314384	10.266	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	228831	9.104	ppbv	99
79) Naphthalene	13.513	128	503311	9.586	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	179578	7.214	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	238914	9.322	ppbv	97

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

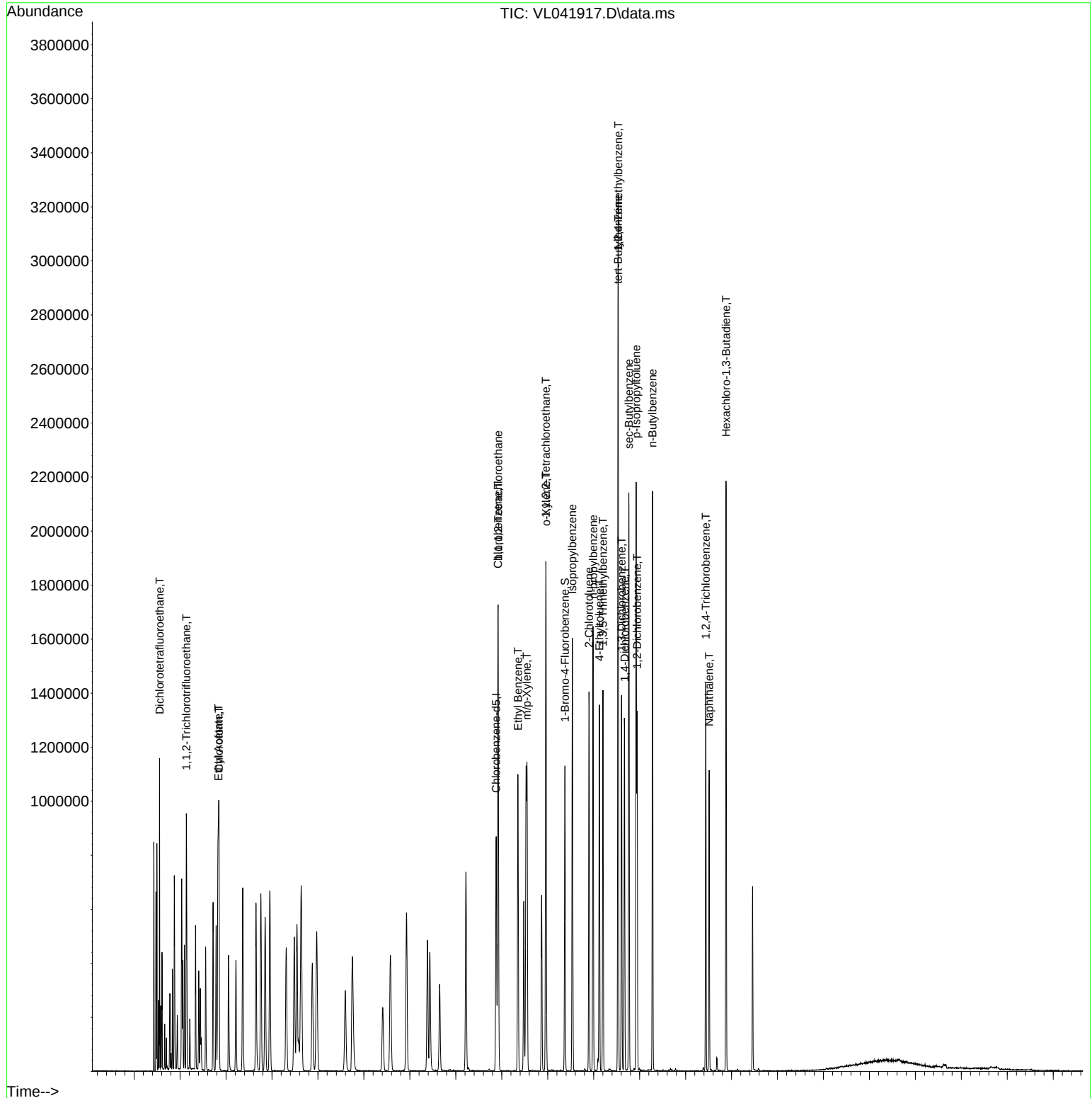
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041917.D
Acq On : 20 Jan 2025 12:25
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

Quant Time: Jan 21 03:02:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041917.D
 Acq On : 20 Jan 2025 12:25
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jan 21 03:02:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 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	-0.01
2 T	Dichlorodifluoromethane	1.362	1.438	-5.6	103	0.00
3	Chlorodifluoromethane	1.427	1.460	-2.3	102	0.00
4	Chloromethane	0.512	0.528	-3.1	100	0.00
5 T	Vinyl Chloride	0.519	0.532	-2.5	106	0.00
6 T	Bromomethane	0.247	0.246	0.4	100	0.00
7	Chloroethane	0.202	0.209	-3.5	101	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.209	-1.6	103	0.00
9 T	Propene	0.588	0.598	-1.7	98	0.00
10 T	Heptane	1.571	1.617	-2.9	98	-0.03
11 T	Trichlorofluoromethane	1.417	1.394	1.6	97	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.133	-2.1	100	0.00
13	Ethanol	0.043	0.026#	39.5#	90	0.00
14 T	Bromoethene	0.407	0.398	2.2	100	0.00
15 T	Acetone	1.201	1.081	10.0	101	0.00
16 T	1,3-Butadiene	0.539	0.543	-0.7	102	0.00
17	tert-Butyl alcohol	1.478	1.330	10.0	88	0.00
18 T	1,1-Dichloroethene	0.501	0.488	2.6	99	0.00
19 T	Isopropyl Alcohol	0.712	0.628	11.8	94	0.00
20 T	Methylene Chloride	0.475	0.406	14.5	97	0.00
21 T	Allyl Chloride	0.832	0.847	-1.8	99	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.563	0.4	97	0.00
23 T	Vinyl Acetate	0.595	0.560	5.9	97	0.00
24 T	1,1-Dichloroethane	1.093	1.100	-0.6	101	-0.01
25 T	Ethyl Acetate	3.239	3.333	-2.9	100	-0.01
26 T	Hexane	1.281	1.337	-4.4	99	-0.01
27 T	Carbon Disulfide	1.268	1.354	-6.8	100	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.949	3.1	114	0.00
29 T	Chloroform	2.025	2.074	-2.4	101	-0.01
30 T	Cyclohexane	1.111	1.162	-4.6	100	-0.02
31 T	cis-1,2-Dichloroethene	1.349	1.365	-1.2	100	0.00
32 T	1,1,1-Trichloroethane	1.938	2.087	-7.7	102	-0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	-0.02
34 T	2-Butanone	0.636	0.678	-6.6	103	-0.01
35 T	Carbon Tetrachloride	0.628	0.722	-15.0	102	-0.02
36 T	Benzene	0.917	0.950	-3.6	99	-0.02
37 T	1,2-Dichloroethane	0.515	0.549	-6.6	102	-0.02
38 T	Trichloroethene	0.364	0.380	-4.4	98	-0.02
39 T	1,2-Dichloropropane	0.322	0.330	-2.5	99	-0.02
40 T	1,4-Dioxane	0.162	0.152	6.2	95	-0.03
41 T	Tetrahydrofuran	0.346	0.372	-7.5	98	-0.01
42 T	Bromodichloromethane	0.691	0.757	-9.6	101	-0.02
43	Methyl Methacrylate	0.341	0.355	-4.1	96	-0.02
44 T	2,2,4-Trimethylpentane	1.484	1.562	-5.3	98	-0.02
45 T	t-1,3-Dichloropropene	0.319	0.358	-12.2	97	-0.03
46 T	cis-1,3-Dichloropropene	0.419	0.465	-11.0	96	-0.03
47 T	1,1,2-Trichloroethane	0.341	0.367	-7.6	101	-0.02
48 T	Dibromochloromethane	0.526	0.607	-15.4	102	-0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041917.D
 Acq On : 20 Jan 2025 12:25
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jan 21 03:02:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 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	0.432	0.506	-17.1	101	-0.02
50 T	4-Methyl-2-Pentanone	0.868	0.925	-6.6	102	-0.03
51 T	2-Hexanone	0.667	0.721	-8.1	101	-0.02
52 T	Tetrachloroethene	0.318	0.313	1.6	98	-0.02
53 T	Toluene	0.999	1.072	-7.3	97	-0.03
54 T	1,2-Dibromoethane	0.469	0.507	-8.1	102	-0.02
55 I	Chlorobenzene-d5	1.000	1.000	0.0	92	-0.02
56	1,1,1,2-Tetrachloroethane	0.499	0.537	-7.6	102	-0.02
57 T	Chlorobenzene	0.922	0.939	-1.8	101	-0.02
58 T	Ethyl Benzene	1.563	1.696	-8.5	100	-0.02
59 T	m/p-Xylene	1.253	1.362	-8.7	102	-0.02
60 T	o-Xylene	1.243	1.367	-10.0	102	-0.02
61 T	Styrene	0.558	0.628	-12.5	98	-0.02
62	Isopropylbenzene	1.924	2.059	-7.0	102	-0.02
63 T	1,1,2,2-Tetrachloroethane	0.795	0.842	-5.9	103	-0.02
64	n-propylbenzene	0.486	0.523	-7.6	102	-0.01
65	tert-Butylbenzene	1.753	1.880	-7.2	103	-0.01
66 T	Benzyl Chloride	0.109	0.118	-8.3	94	-0.01
67	sec-Butylbenzene	2.414	2.571	-6.5	102	-0.01
68 S	1-Bromo-4-Fluorobenzene	0.788	0.800	-1.5	94	-0.02
69	p-Isopropyltoluene	1.988	2.159	-8.6	103	-0.01
70	n-Butylbenzene	1.972	2.077	-5.3	100	-0.01
71	2-Chlorotoluene	1.423	1.527	-7.3	101	-0.02
72 T	4-Ethyltoluene	1.487	1.621	-9.0	101	-0.01
73 T	1,3,5-Trimethylbenzene	1.313	1.416	-7.8	103	-0.01
74 T	1,2,4-Trimethylbenzene	1.422	1.518	-6.8	103	-0.01
75 T	1,3-Dichlorobenzene	0.843	0.870	-3.2	103	-0.01
76 T	1,4-Dichlorobenzene	0.825	0.869	-5.3	103	-0.01
77 T	1,2-Dichlorobenzene	0.835	0.858	-2.8	104	-0.01
78 T	Hexachloro-1,3-Butadiene	0.686	0.624	9.0	98	-0.02
79 T	Naphthalene	1.432	1.373	4.1	100	-0.01
80 T	Naphthalene,2-methyl-	0.679	0.490	27.8	97	-0.01
81 T	1,2,4-Trichlorobenzene	0.699	0.652	6.7	100	-0.01

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041917.D
 Acq On : 20 Jan 2025 12:25
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jan 21 03:02:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 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	-0.01
2 T	Dichlorodifluoromethane	10.000	10.557	-5.6	103	0.00
3	Chlorodifluoromethane	10.000	10.231	-2.3	102	0.00
4	Chloromethane	10.000	10.309	-3.1	100	0.00
5 T	Vinyl Chloride	10.000	10.262	-2.6	106	0.00
6 T	Bromomethane	10.000	9.958	0.4	100	0.00
7	Chloroethane	10.000	10.330	-3.3	101	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.156	-1.6	103	0.00
9 T	Propene	10.000	10.173	-1.7	98	0.00
10 T	Heptane	10.000	10.294	-2.9	98	-0.03
11 T	Trichlorofluoromethane	10.000	9.837	1.6	97	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	10.200	-2.0	100	0.00
13	Ethanol	10.000	6.146	38.5#	90	0.00
14 T	Bromoethene	10.000	9.793	2.1	100	0.00
15 T	Acetone	10.000	8.996	10.0	101	0.00
16 T	1,3-Butadiene	10.000	10.080	-0.8	102	0.00
17	tert-Butyl alcohol	10.000	8.998	10.0	88	0.00
18 T	1,1-Dichloroethene	10.000	9.753	2.5	99	0.00
19 T	Isopropyl Alcohol	10.000	8.823	11.8	94	0.00
20 T	Methylene Chloride	10.000	8.557	14.4	97	0.00
21 T	Allyl Chloride	10.000	10.181	-1.8	99	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.975	0.3	97	0.00
23 T	Vinyl Acetate	10.000	9.399	6.0	97	0.00
24 T	1,1-Dichloroethane	10.000	10.071	-0.7	101	-0.01
25 T	Ethyl Acetate	10.000	10.291	-2.9	100	-0.01
26 T	Hexane	10.000	10.441	-4.4	99	-0.01
27 T	Carbon Disulfide	10.000	10.679	-6.8	100	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.690	3.1	114	0.00
29 T	Chloroform	10.000	10.243	-2.4	101	-0.01
30 T	Cyclohexane	10.000	10.454	-4.5	100	-0.02
31 T	cis-1,2-Dichloroethene	10.000	10.118	-1.2	100	0.00
32 T	1,1,1-Trichloroethane	10.000	10.773	-7.7	102	-0.02
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	92	-0.02
34 T	2-Butanone	10.000	10.656	-6.6	103	-0.01
35 T	Carbon Tetrachloride	10.000	11.497	-15.0	102	-0.02
36 T	Benzene	10.000	10.353	-3.5	99	-0.02
37 T	1,2-Dichloroethane	10.000	10.657	-6.6	102	-0.02
38 T	Trichloroethene	10.000	10.447	-4.5	98	-0.02
39 T	1,2-Dichloropropane	10.000	10.262	-2.6	99	-0.02
40 T	1,4-Dioxane	10.000	9.370	6.3	95	-0.03
41 T	Tetrahydrofuran	10.000	10.752	-7.5	98	-0.01
42 T	Bromodichloromethane	10.000	10.955	-9.6	101	-0.02
43	Methyl Methacrylate	10.000	10.417	-4.2	96	-0.02
44 T	2,2,4-Trimethylpentane	10.000	10.528	-5.3	98	-0.02
45 T	t-1,3-Dichloropropene	10.000	11.215	-12.1	97	-0.03
46 T	cis-1,3-Dichloropropene	10.000	11.114	-11.1	96	-0.03
47 T	1,1,2-Trichloroethane	10.000	10.772	-7.7	101	-0.02
48 T	Dibromochloromethane	10.000	11.543	-15.4	102	-0.02

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041917.D
 Acq On : 20 Jan 2025 12:25
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jan 21 03:02:14 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	11.713	-17.1	101	-0.02
50 T	4-Methyl-2-Pentanone	10.000	10.658	-6.6	102	-0.03
51 T	2-Hexanone	10.000	10.809	-8.1	101	-0.02
52 T	Tetrachloroethene	10.000	9.846	1.5	98	-0.02
53 T	Toluene	10.000	10.732	-7.3	97	-0.03
54 T	1,2-Dibromoethane	10.000	10.811	-8.1	102	-0.02
55 I	Chlorobenzene-d5	10.000	10.000	0.0	92	-0.02
56	1,1,1,2-Tetrachloroethane	10.000	10.766	-7.7	102	-0.02
57 T	Chlorobenzene	10.000	10.181	-1.8	101	-0.02
58 T	Ethyl Benzene	10.000	10.854	-8.5	100	-0.02
59 T	m/p-Xylene	20.000	21.739	-8.7	102	-0.02
60 T	o-Xylene	10.000	10.998	-10.0	102	-0.02
61 T	Styrene	10.000	11.268	-12.7	98	-0.02
62	Isopropylbenzene	10.000	10.699	-7.0	102	-0.02
63 T	1,1,2,2-Tetrachloroethane	10.000	10.602	-6.0	103	-0.02
64	n-propylbenzene	10.000	10.756	-7.6	102	-0.01
65	tert-Butylbenzene	10.000	10.725	-7.2	103	-0.01
66 T	Benzyl Chloride	10.000	10.888	-8.9	94	-0.01
67	sec-Butylbenzene	10.000	10.650	-6.5	102	-0.01
68 S	1-Bromo-4-Fluorobenzene	10.000	10.154	-1.5	94	-0.02
69	p-Isopropyltoluene	10.000	10.860	-8.6	103	-0.01
70	n-Butylbenzene	10.000	10.537	-5.4	100	-0.01
71	2-Chlorotoluene	10.000	10.730	-7.3	101	-0.02
72 T	4-Ethyltoluene	10.000	10.901	-9.0	101	-0.01
73 T	1,3,5-Trimethylbenzene	10.000	10.780	-7.8	103	-0.01
74 T	1,2,4-Trimethylbenzene	10.000	10.675	-6.8	103	-0.01
75 T	1,3-Dichlorobenzene	10.000	10.321	-3.2	103	-0.01
76 T	1,4-Dichlorobenzene	10.000	10.535	-5.4	103	-0.01
77 T	1,2-Dichlorobenzene	10.000	10.266	-2.7	104	-0.01
78 T	Hexachloro-1,3-Butadiene	10.000	9.104	9.0	98	-0.02
79 T	Naphthalene	10.000	9.586	4.1	100	-0.01
80 T	Naphthalene,2-methyl-	10.000	7.214	27.9	97	-0.01
81 T	1,2,4-Trichlorobenzene	10.000	9.322	6.8	100	-0.01

(#) = Out of Range

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



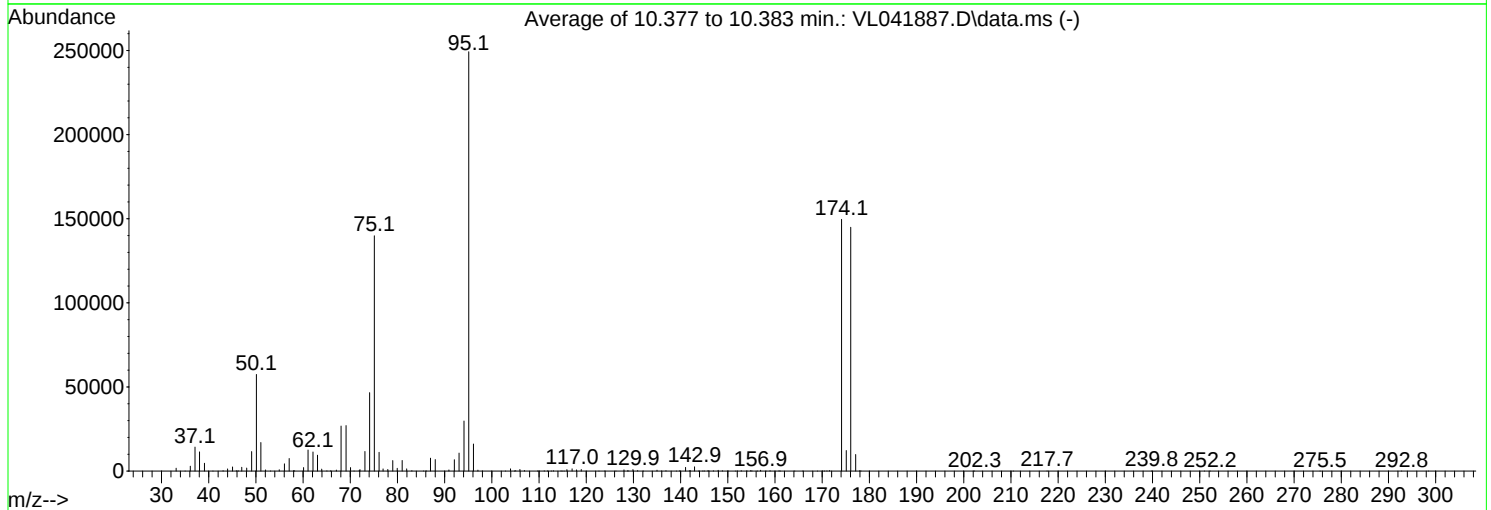
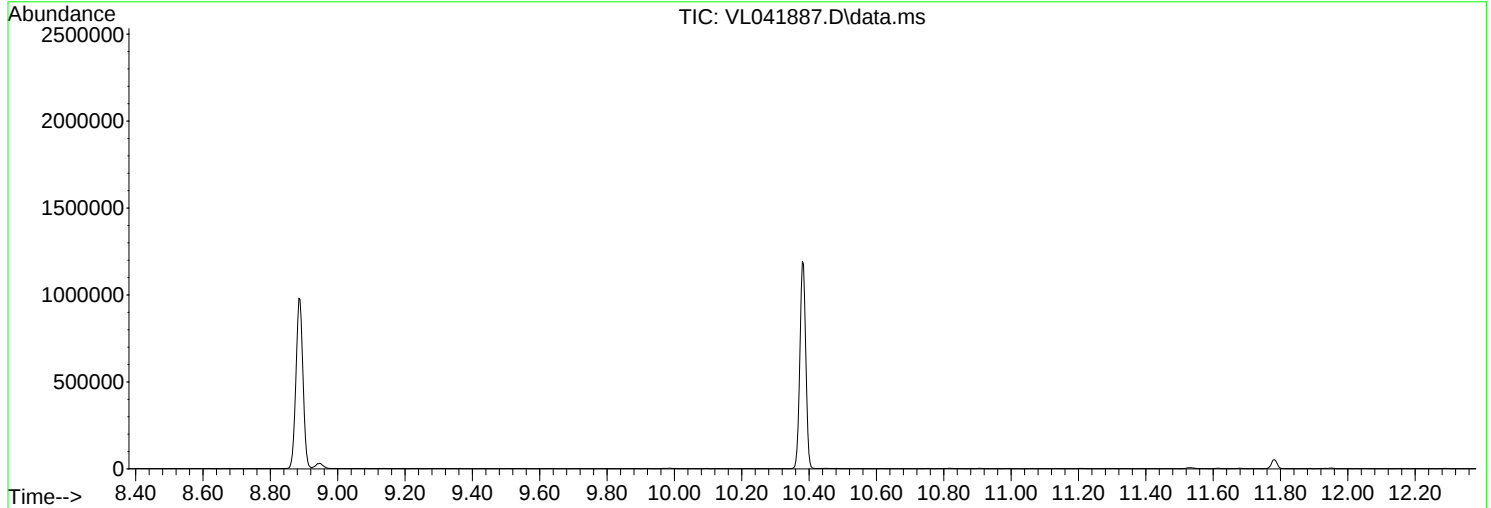
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041887.D
Acq On : 14 Jan 2025 07:50
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\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 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	23.0	57448	PASS
75	95	30	66	56.1	139893	PASS
95	95	100	100	100.0	249280	PASS
96	95	5	9	6.5	16102	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	60.0	149632	PASS
175	174	4	9	8.2	12223	PASS
176	174	93	101	96.8	144917	PASS
177	176	5	9	6.8	9838	PASS

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1721	46.25	187	58.00	217	69.10	27064
35.00	34	47.00	2270	58.20	169	70.05	2086
36.10	2904	48.05	1800	60.10	2093	70.80	62
37.10	14256	49.10	11606	61.05	12532	71.90	478
38.05	11416	50.10	57448	62.10	11347	72.05	855
39.10	4640	51.05	16983	63.05	9441	73.10	11647
40.90	20	52.05	698	63.95	1185	74.10	46637
43.05	223	53.10	70	65.05	142	75.10	139893
44.00	1302	54.95	811	65.80	140	76.10	11160
45.05	2448	56.05	4320	67.05	599	76.95	1289
45.85	203	57.05	7492	68.05	26765	77.95	981

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.00	6243	93.05	10708	106.90	325	117.00	1338
79.95	1666	94.10	29779	109.70	72	117.95	731
81.00	6311	95.10	249280	110.00	50	118.95	953
81.95	1325	96.10	16102	111.10	152	122.70	24
83.05	258	97.05	586	111.80	111	123.95	57
85.55	75	98.00	64	112.60	51	126.30	40
86.10	108	102.90	20	113.05	210	128.00	751
87.00	7686	103.95	1357	114.65	88	128.75	209
88.00	6856	104.80	96	114.90	24	129.00	149
90.90	686	105.05	252	115.30	44	129.90	917
92.05	6774	105.95	966	115.90	891	130.90	280

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.10	22	144.00	36	152.85	252	165.90	17
135.00	547	144.70	54	154.05	188	169.00	21
136.00	45	145.00	117	154.85	333	170.10	20
136.90	224	145.80	267	155.10	178	170.45	75
139.10	30	146.00	132	156.30	48	171.00	82
139.80	185	146.95	170	156.95	484	171.55	299
141.05	2202	147.95	449	158.10	23	174.10	149632
141.85	250	148.85	204	158.95	237	175.10	12223
142.10	215	150.05	156	160.85	178	176.05	144917
142.95	2558	151.60	28	161.10	61	177.10	9838
143.80	73	152.00	94	164.20	20	177.95	205

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
178.20	123						
202.00	26						
202.30	27						
210.50	25						
217.65	77						
239.80	44						
251.00	21						
252.20	26						
275.50	23						
292.80	18						
298.50	17						

Instrument :

MSVOA_L

ClientSampleId :

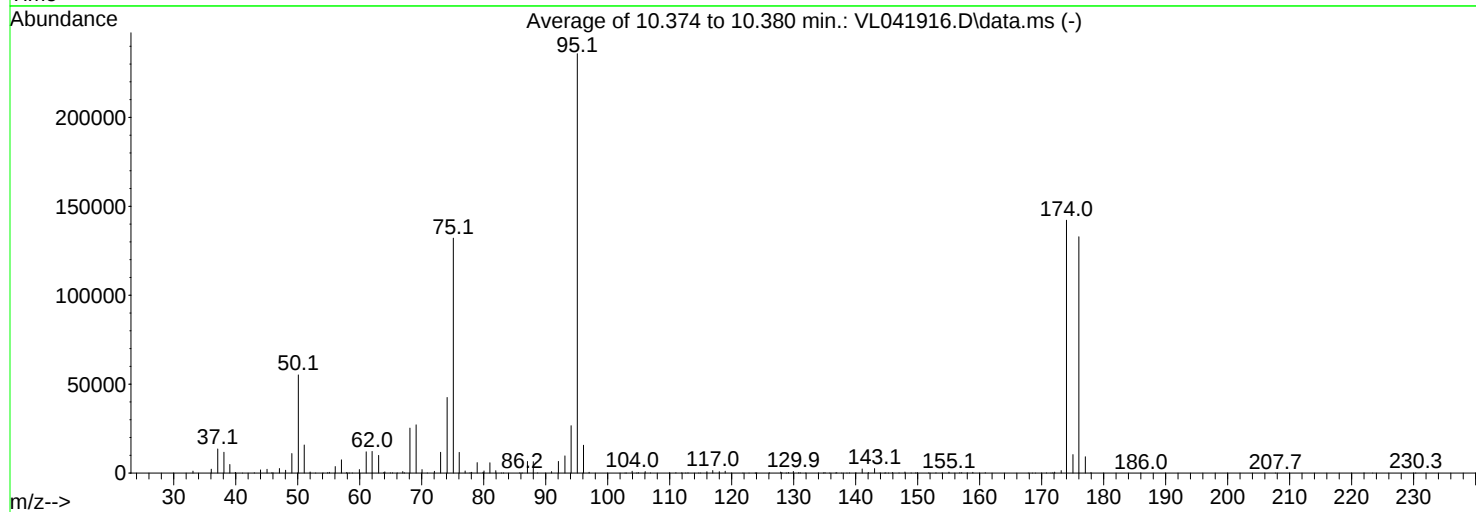
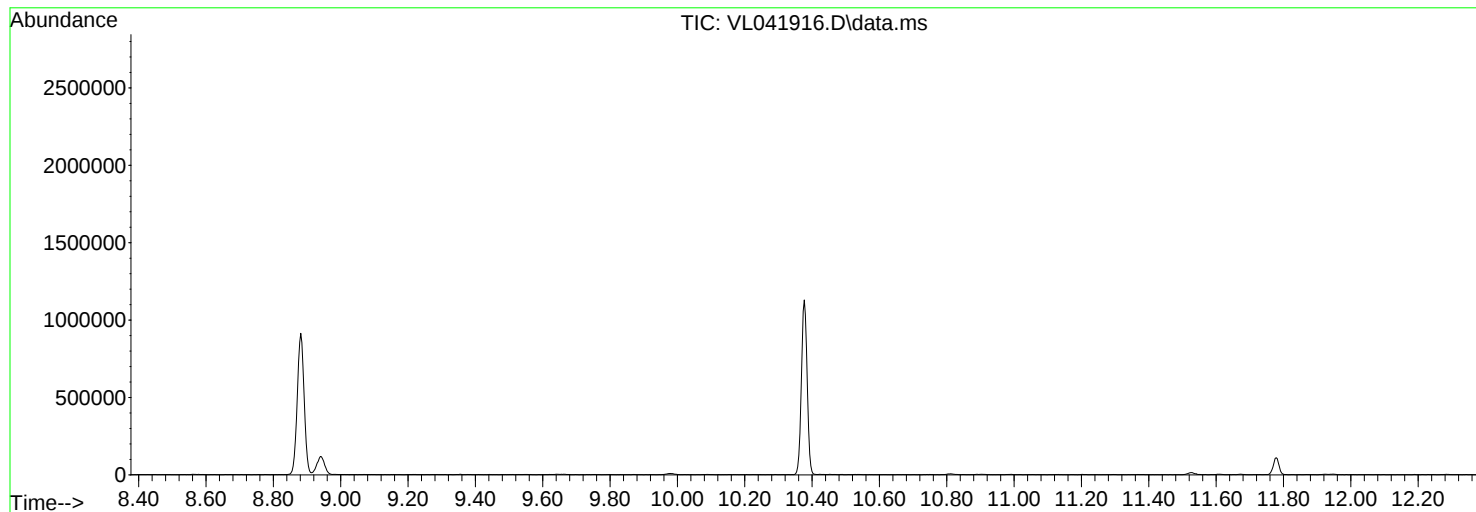
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041916.D
Acq On : 20 Jan 2025 11:53
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\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.4	55184	PASS
75	95	30	66	56.0	132096	PASS
95	95	100	100	100.0	235797	PASS
96	95	5	9	6.6	15656	PASS
173	174	0.00	2	1.0	1393	PASS
174	95	50	120	60.3	142187	PASS
175	174	4	9	7.3	10388	PASS
176	174	93	101	93.5	132891	PASS
177	176	5	9	6.9	9178	PASS

Average of 10.374 to 10.380 min.: VL041916.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1107	46.00	102	56.05	3670	64.95	134
36.05	2199	47.05	2563	57.05	7457	65.30	170
37.10	13556	48.05	1605	57.90	327	66.10	25
38.10	11733	49.05	10988	58.30	77	66.95	852
39.05	4830	50.10	55184	58.80	90	67.20	172
39.95	370	51.05	15805	59.95	1991	68.10	25293
41.10	23	52.00	636	61.05	11968	69.10	27133
43.00	179	52.90	64	62.00	12180	70.05	1989
44.00	1799	54.10	19	63.05	9929	70.90	75
45.05	2141	54.80	196	63.90	413	72.05	995
45.80	119	55.10	425	64.05	691	73.05	11680

Average of 10.374 to 10.380 min.: VL041916.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
74.10	42520	82.85	84	95.10	235797	111.00	233
75.10	132096	83.20	84	96.10	15656	111.95	109
76.05	11635	85.80	99	97.00	455	112.60	38
77.00	1199	86.20	124	102.80	65	112.95	156
77.80	191	87.05	6549	103.00	67	114.70	65
78.05	424	88.00	6433	103.95	1064	115.00	53
78.95	5884	88.70	114	104.70	80	116.00	784
79.90	503	90.95	831	104.95	234	116.95	1425
80.05	1216	92.05	6559	106.05	845	118.00	789
81.00	5795	93.10	9663	106.90	127	118.95	1062
81.95	1363	94.10	26640	110.00	172	121.80	30

Average of 10.374 to 10.380 min.: VL041916.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
122.80	30	131.05	220	140.05	144	148.95	110
123.80	38	131.95	47	141.05	2335	149.70	132
123.90	54	134.00	94	142.05	269	149.95	241
124.05	103	134.80	142	143.05	2530	151.80	130
126.10	135	135.05	268	143.95	121	152.95	170
127.90	561	135.80	28	144.70	42	153.95	93
128.10	250	136.80	117	144.85	174	155.05	514
128.80	81	136.95	276	145.30	50	156.80	190
129.15	337	137.75	41	145.95	316	157.10	262
129.95	913	138.60	24	147.00	115	158.00	129
130.80	204	139.00	106	147.95	591	158.90	443

Average of 10.374 to 10.380 min.: VL041916.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
160.90	251	176.00	132891				
167.85	55	177.05	9178				
168.50	21	177.95	278				
169.00	35	186.00	25				
170.80	120	207.70	28				
171.50	45	222.00	20				
171.80	182	223.40	28				
172.10	542	230.35	45				
173.15	1393						
174.00	142187						
175.05	10388						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	21-36 Utopia Parkway, Flushing NY	Date Received:	
Client Sample ID:	VL0120ABL02	SDG No.:	Q1138
Lab Sample ID:	VL0120ABL02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041919.D	1		01/20/25 14:09	VL012025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	137000			2.784		
540-36-3	1,4-Difluorobenzene	394000			3.955		
3114-55-4	Chlorobenzene-d5	341000			8.878		

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\VL012025\
 Data File : VL041919.D
 Acq On : 20 Jan 2025 14:09
 Operator : SY/MD
 Sample : VL0120ABL02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0120ABL02

Quant Time: Jan 21 03:03:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	137119	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.955	114	393995	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	341266	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	265828	9.890	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%

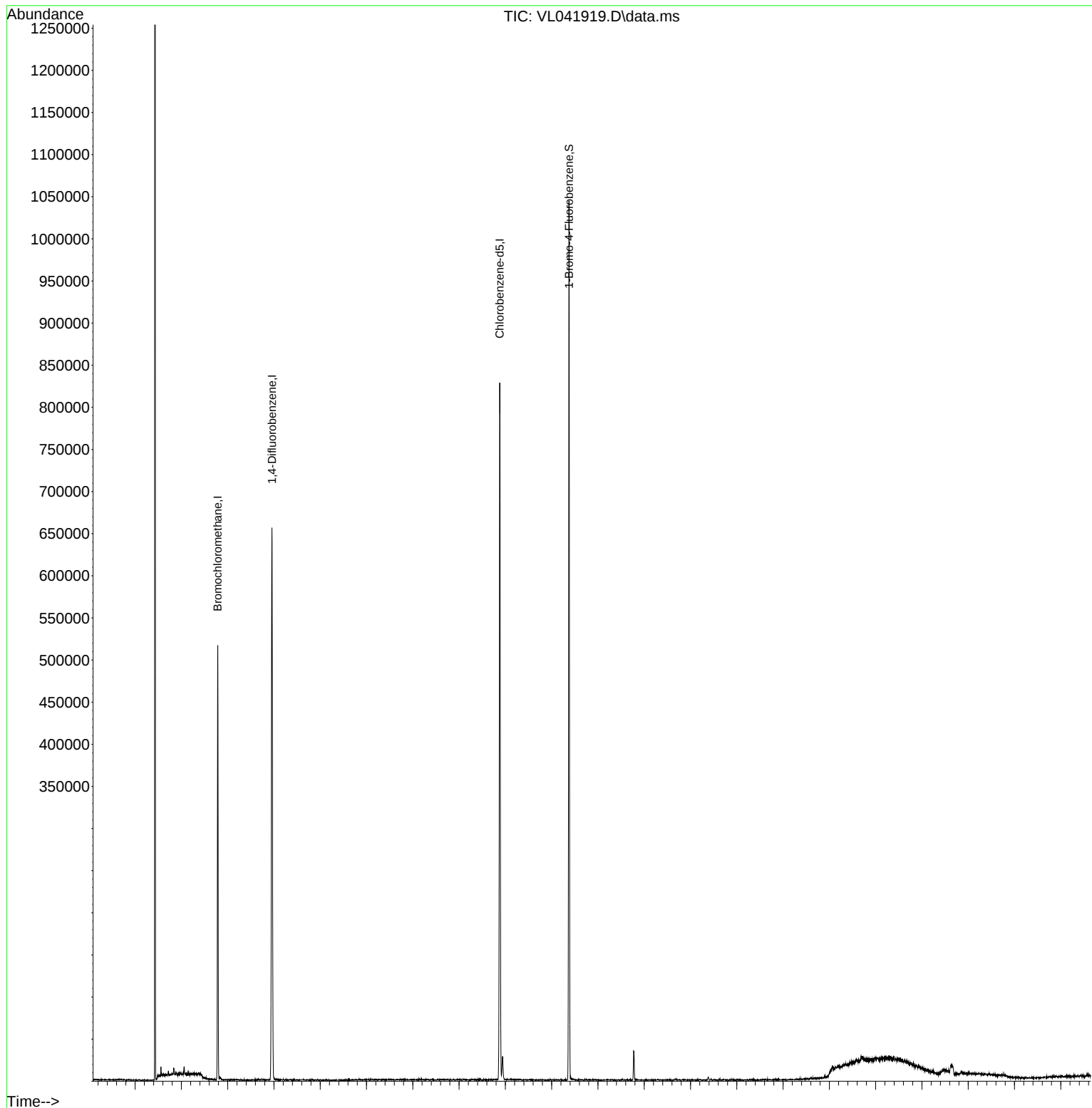
Target Compounds	Qvalue

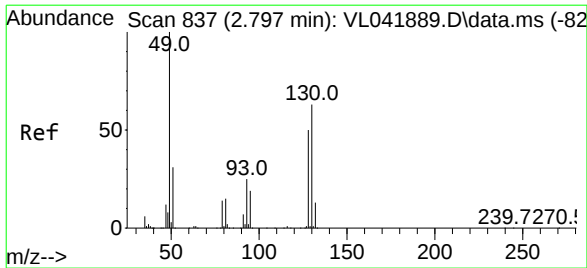
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041919.D
Acq On : 20 Jan 2025 14:09
Operator : SY/MD
Sample : VL0120ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0120ABL02

Quant Time: Jan 21 03:03:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

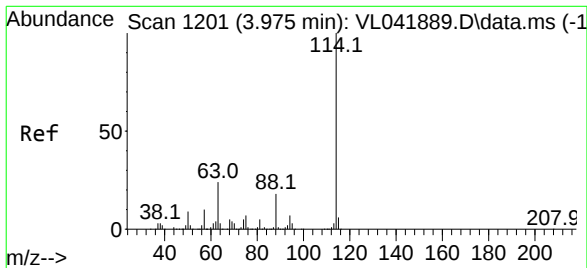
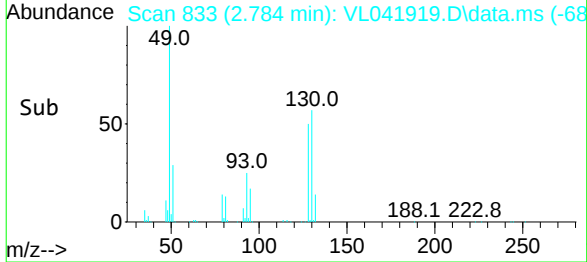
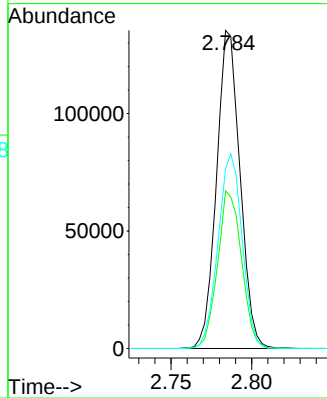
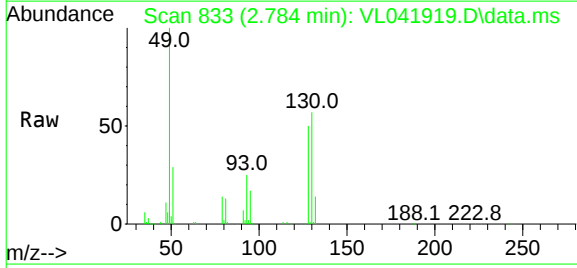




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 83
Delta R.T. -0.013 min
Lab File: VL041919.D
Acq: 20 Jan 2025 14:09

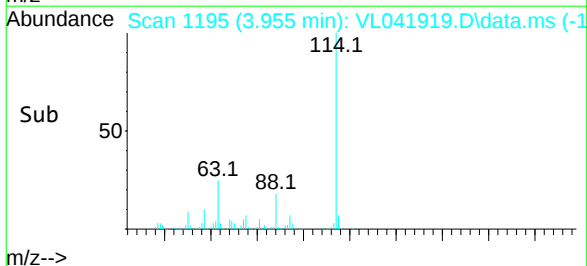
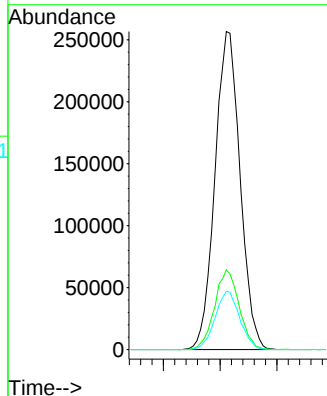
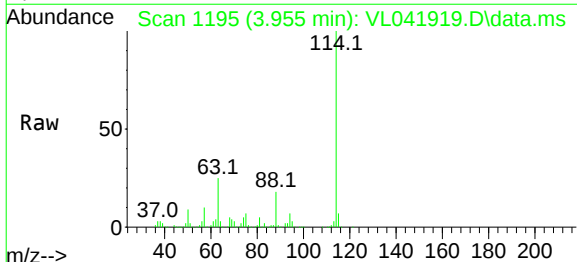
Instrument :
MSVOA_L
ClientSampleId :
VL0120ABL02

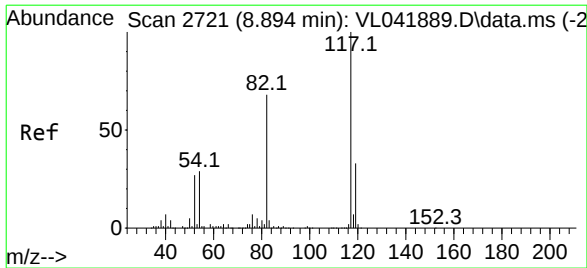
Tgt Ion: 49 Resp: 137119
Ion Ratio Lower Upper
49 100
128 50.5 24.3 73.0
130 62.6 31.1 93.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.019 min
Lab File: VL041919.D
Acq: 20 Jan 2025 14:09

Tgt Ion: 114 Resp: 393995
Ion Ratio Lower Upper
114 100
63 24.6 19.8 29.6
88 17.9 14.4 21.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 27

Delta R.T. -0.016 min

Lab File: VL041919.D

Acq: 20 Jan 2025 14:09

Instrument :

MSVOA_L

ClientSampleId :

VL0120ABL02

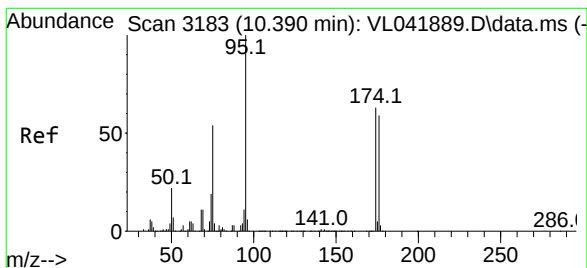
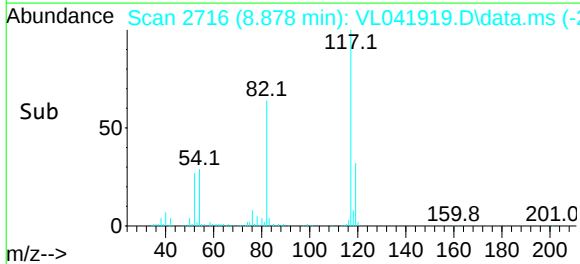
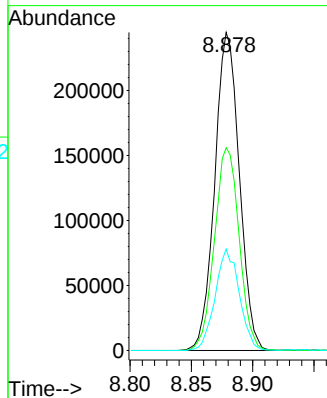
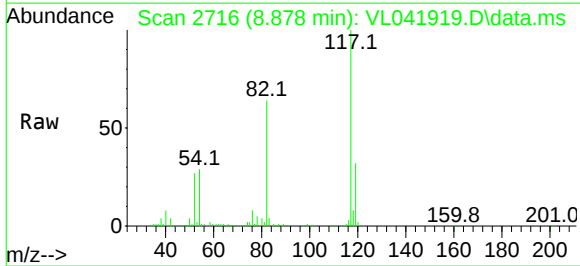
Tgt Ion:117 Resp: 341266

Ion Ratio Lower Upper

117 100

82 64.2 54.2 81.4

119 31.6 25.0 37.6



#68

1-Bromo-4-Fluorobenzene

Concen: 9.890 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.016 min

Lab File: VL041919.D

Acq: 20 Jan 2025 14:09

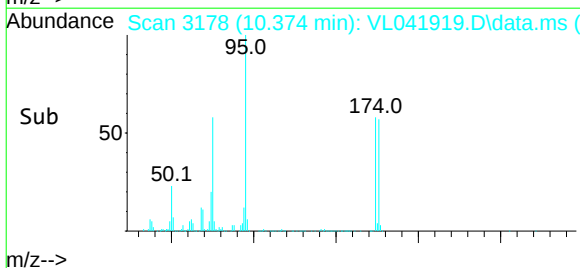
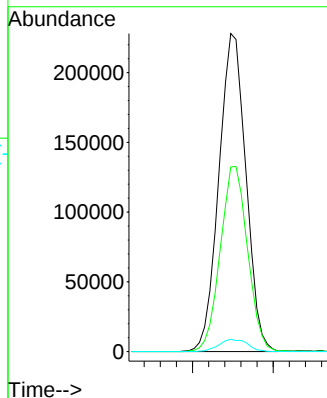
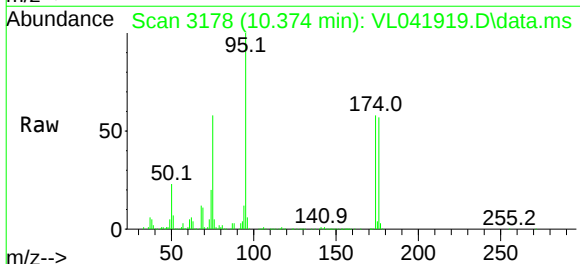
Tgt Ion: 95 Resp: 265828

Ion Ratio Lower Upper

95 100

174 58.9 49.0 73.4

175 4.1 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	21-36 Utopia Parkway, Flushing NY	Date Received:	
Client Sample ID:	VL0120ABS01	SDG No.:	Q1138
Lab Sample ID:	VL0120ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041920.D	1		01/20/25 14:49	VL012025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	10.3	26.3		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	9.80	38.9		0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.0	39.6		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	11.1	60.6		0.050	0.16	ug/m3
79-01-6	Trichloroethene	10.5	56.4		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	10.2	69.2		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	135000		2.784			
540-36-3	1,4-Difluorobenzene	387000		3.952			
3114-55-4	Chlorobenzene-d5	350000		8.875			

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\VL012025\
 Data File : VL041920.D
 Acq On : 20 Jan 2025 14:49
 Operator : SY/MD
 Sample : VL0120ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0120ABS01

Quant Time: Jan 21 03:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/21/2025
 Supervised By : Mahesh Dadoda 01/21/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	135102	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.952	114	387101	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.875	117	349589	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	278711	10.122	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	194318	10.559	ppbv	98
3) Chlorodifluoromethane	1.473	51	197472	10.243	ppbv	98
4) Chloromethane	1.531	50	72874	10.529	ppbv	98
5) Vinyl Chloride	1.577	62	72113	10.287	ppbv	99
6) Bromomethane	1.664	94	33135	9.918	ppbv	96
7) Chloroethane	1.703	64	28640	10.501	ppbv	98
8) Dichlorotetrafluoroethane	1.551	85	166851	10.375	ppbv	97
9) Propene	1.479	41	77143	9.714	ppbv	98
10) Heptane	4.972	43	221305	10.425	ppbv	99
11) Trichlorofluoromethane	1.874	101	194272	10.148	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	146623	9.773	ppbv	100
13) Ethanol	1.719	45	4038	6.942	ppbv	85
14) Bromoethene	1.777	108	55312	10.069	ppbv	99
15) Acetone	1.832	43	150156	9.254	ppbv	100
16) 1,3-Butadiene	1.606	39	77537	10.646	ppbv	96
17) tert-Butyl alcohol	2.036	59	181975	9.112	ppbv	98
18) 1,1-Dichloroethene	2.030	96	66143	9.782	ppbv	92
19) Isopropyl Alcohol	1.884	45	83014	8.628	ppbv	90
20) Methylene Chloride	2.059	84	56310	8.781	ppbv	98
21) Allyl Chloride	2.091	41	109320	9.729	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	77371	10.138	ppbv	98
23) Vinyl Acetate	2.460	43	70431	8.756	ppbv	98
24) 1,1-Dichloroethane	2.405	63	151563	10.268	ppbv	97
25) Ethyl Acetate	2.832	43	459719	10.506	ppbv	100
26) Hexane	2.819	57	180370	10.422	ppbv	96
27) Carbon Disulfide	2.146	76	175967	10.275	ppbv	96
28) Methyl tert-Butyl Ether	2.438	73	101706	7.689	ppbv	98
29) Chloroform	2.845	83	293134	10.715	ppbv	100
30) Cyclohexane	3.852	84	153860	10.250	ppbv	99
31) cis-1,2-Dichloroethene	2.716	61	181894	9.982	ppbv	95
32) 1,1,1-Trichloroethane	3.363	97	291864	11.149	ppbv	99
34) 2-Butanone	2.554	43	259553	10.543	ppbv	100
35) Carbon Tetrachloride	3.758	117	289005	11.886	ppbv	98
36) Benzene	3.651	78	373474	10.519	ppbv	99
37) 1,2-Dichloroethane	3.214	62	220096	11.038	ppbv	100
38) Trichloroethene	4.541	130	148232	10.521	ppbv	97
39) 1,2-Dichloropropane	4.305	63	131897	10.591	ppbv	96
40) 1,4-Dioxane	4.580	88	60318	9.590	ppbv #	89
41) Tetrahydrofuran	3.052	42	145307	10.861	ppbv	99
42) Bromodichloromethane	4.483	83	300955	11.257	ppbv	99
43) Methyl Methacrylate	4.875	69	138125	10.472	ppbv	97
44) 2,2,4-Trimethylpentane	4.632	57	620956	10.813	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	134773	10.916	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041920.D
 Acq On : 20 Jan 2025 14:49
 Operator : SY/MD
 Sample : VL0120ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0120ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/21/2025
 Supervised By : Mahesh Dadoda 01/21/2025

Quant Time: Jan 21 03:03:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	178041	10.984	ppbv	95
47) 1,1,2-Trichloroethane	6.577	97	143288	10.855	ppbv	97
48) Dibromochloromethane	7.380	129	239335	11.751	ppbv	99
49) Bromoform	9.477	173	202023	12.076	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	363704m	10.822	ppbv	
51) 2-Hexanone	7.432	43	285982	11.075	ppbv #	95
52) Tetrachloroethene	8.221	164	125228	10.172	ppbv	96
53) Toluene	6.927	91	422420	10.923	ppbv	99
54) 1,2-Dibromoethane	7.649	107	199693	11.005	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.920	131	192001	11.008	ppbv	99
57) Chlorobenzene	8.917	112	333484	10.342	ppbv	98
58) Ethyl Benzene	9.351	91	594180	10.876	ppbv	99
59) m/p-Xylene	9.548	91	967584m	22.095	ppbv	
60) o-Xylene	9.959	91	484897	11.155	ppbv	100
61) Styrene	9.866	104	217994	11.180	ppbv	99
62) Isopropylbenzene	10.536	105	733114	10.900	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	304162	10.951	ppbv	99
64) n-propylbenzene	10.985	120	187191	11.014	ppbv	100
65) tert-Butylbenzene	11.529	119	664818	10.846	ppbv	99
66) Benzyl Chloride	11.613	91	39111	10.309	ppbv	99
67) sec-Butylbenzene	11.765	105	919962	10.900	ppbv	100
69) p-Isopropyltoluene	11.924	119	765677	11.017	ppbv	100
70) n-Butylbenzene	12.280	91	756926	10.981	ppbv	99
71) 2-Chlorotoluene	10.898	91	544953	10.953	ppbv	99
72) 4-Ethyltoluene	11.121	105	583898	11.230	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	510670	11.122	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	550233	11.066	ppbv #	87
75) 1,3-Dichlorobenzene	11.604	146	314285	10.666	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	307295	10.659	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	308471	10.563	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	227006	9.471	ppbv	99
79) Naphthalene	13.513	128	495170	9.890	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	173122	7.293	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	227472	9.308	ppbv	99

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

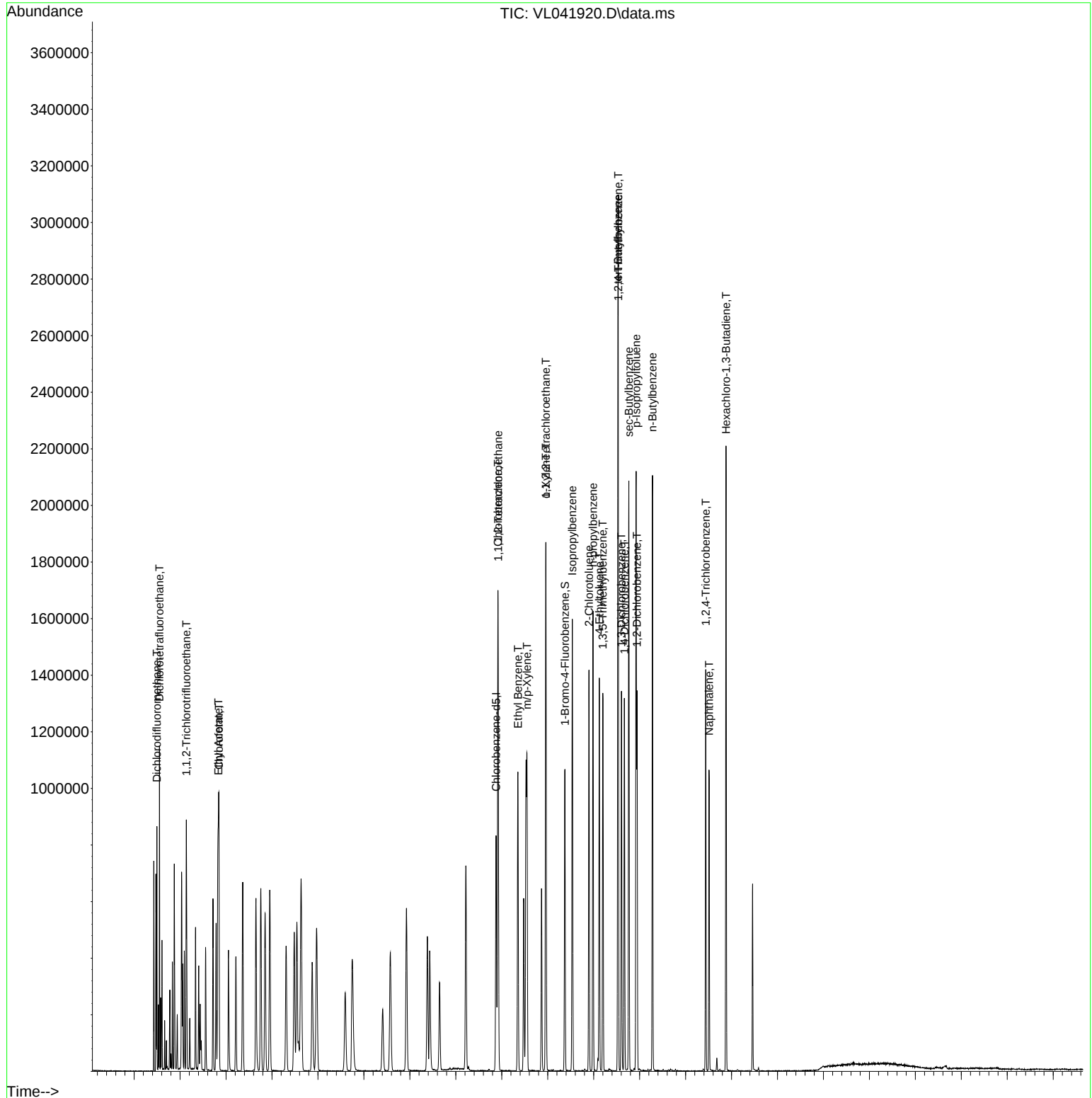
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
Data File : VL041920.D
Acq On : 20 Jan 2025 14:49
Operator : SY/MD
Sample : VL0120ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0120ABS01

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/21/2025
Supervised By :Mahesh Dadoda 01/21/2025

Quant Time: Jan 21 03:03:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL041889.D	m/p-Xylene	SAM	1/15/2025 11:01:16 AM	MMDadoda	1/15/2025 12:57:14 PM	Peak Integrated by Software
VSTDICCC002	VL041890.D	1,1,2-Trichloroethane	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICCC002	VL041890.D	1,4-Dioxane	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICCC002	VL041890.D	m/p-Xylene	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	1,1,2-Trichloroethane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	1,1-Dichloroethene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	1,4-Dioxane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	4-Methyl-2-Pentanone	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Benzyl Chloride	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Bromodichloromethane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	m/p-Xylene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Tetrahydrofuran	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Toluene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL041891.D	Trichloroethene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	1,2-Dichloropropane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	1,4-Dioxane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	4-Methyl-2-Pentanone	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Bromodichloromethane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	cis-1,3-Dichloropropene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Dibromochloromethane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Ethanol	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Hexane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	m/p-Xylene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Methyl Methacrylate	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	t-1,3-Dichloropropene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Tetrachloroethene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL041892.D	Vinyl Acetate	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	1,1,1-Trichloroethane	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	1,2-Dibromoethane	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	Carbon Tetrachloride	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	Tetrachloroethene	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	Trichloroethene	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.03	VL041894.D	Tetrachloroethene	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDICC0.03	VL041894.D	Trichloroethene	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDICC0.03	VL041894.D	Vinyl Chloride	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDICC015	VL041895.D	m/p-Xylene	SAM	1/15/2025 11:01:35 AM	MMDadoda	1/15/2025 12:57:56 PM	Peak Integrated by Software
VSTDICV010	VL041896.D	m/p-Xylene	SAM	1/15/2025 11:01:30 AM	MMDadoda	1/15/2025 12:58:01 PM	Peak Integrated by Software
VSTDCCC010	VL041915.D	m/p-Xylene	SAM	1/15/2025 11:02:26 AM	MMDadoda	1/15/2025 12:59:14 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VL011425

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VL012025	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL041917.D	m/p-Xylene	SAM	1/21/2025 11:28:18 AM	MMDadoda	1/21/2025 11:53:18 AM	Peak Integrated by Software
VL0120ABS01	VL041920.D	4-Methyl-2-Pentanone	SAM	1/21/2025 11:29:19 AM	MMDadoda	1/21/2025 11:53:16 AM	Peak Integrated by Software
VL0120ABS01	VL041920.D	m/p-Xylene	SAM	1/21/2025 11:29:19 AM	MMDadoda	1/21/2025 11:53:16 AM	Peak Integrated by Software
Q1138-01	VL041928.D	Carbon Tetrachloride	SAM	1/21/2025 11:29:34 AM	MMDadoda	1/21/2025 11:53:04 AM	Peak Integrated by Software
Q1138-01	VL041928.D	Propene	SAM	1/21/2025 11:29:34 AM	MMDadoda	1/21/2025 11:53:04 AM	Peak Integrated by Software
Q1138-02	VL041929.D	Carbon Tetrachloride	SAM	1/21/2025 11:28:57 AM	MMDadoda	1/21/2025 11:53:02 AM	Peak Integrated by Software
Q1138-02	VL041929.D	Chlorodifluoromethane	SAM	1/21/2025 11:28:57 AM	MMDadoda	1/21/2025 11:53:02 AM	Peak Integrated by Software
Q1138-02DUP	VL041939.D	Chlorodifluoromethane	SAM	1/21/2025 11:30:37 AM	MMDadoda	1/21/2025 11:52:02 AM	Peak Integrated by Software
Q1138-02DUP	VL041939.D	Tetrachloroethene	SAM	1/21/2025 11:30:37 AM	MMDadoda	1/21/2025 11:52:02 AM	Peak Integrated by Software
Q1138-02DUP	VL041939.D	Toluene	SAM	1/21/2025 11:30:37 AM	MMDadoda	1/21/2025 11:52:02 AM	Peak Integrated by Software
VSTDCCC010	VL041942.D	4-Ethyltoluene	SAM	1/21/2025 1:52:32 PM	MMDadoda	1/21/2025 1:54:26 PM	Peak Integrated by Software
VSTDCCC010	VL041942.D	m/p-Xylene	SAM	1/21/2025 1:52:32 PM	MMDadoda	1/21/2025 1:54:26 PM	Peak Integrated by Software
VSTDCCC010	VL041942.D	Vinyl Acetate	SAM	1/21/2025 1:52:32 PM	MMDadoda	1/21/2025 1:54:26 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VI012025

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574,MDL,AP2572,AP2573			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041887.D	14 Jan 2025 07:50	SY/MD	Ok
2	VSTDICC0.5	VL041888.D	14 Jan 2025 11:40	SY/MD	Not Ok
3	VSTDICCC010	VL041889.D	14 Jan 2025 12:55	SY/MD	Ok,M
4	VSTDICC002	VL041890.D	14 Jan 2025 13:28	SY/MD	Ok,M
5	VSTDICC001	VL041891.D	14 Jan 2025 13:59	SY/MD	Ok,M
6	VSTDICC0.5	VL041892.D	14 Jan 2025 14:30	SY/MD	Ok,M
7	VSTDICC0.1	VL041893.D	14 Jan 2025 15:01	SY/MD	Ok,M
8	VSTDICC0.03	VL041894.D	14 Jan 2025 15:32	SY/MD	Ok,M
9	VSTDICC015	VL041895.D	14 Jan 2025 16:05	SY/MD	Ok,M
10	VSTDICV010	VL041896.D	14 Jan 2025 17:33	SY/MD	Ok,M
11	VL0114ABL01	VL041897.D	14 Jan 2025 18:34	SY/MD	Ok
12	VL0114ABL02	VL041898.D	14 Jan 2025 19:05	SY/MD	Ok
13	VL0114ABS01	VL041899.D	14 Jan 2025 19:36	SY/MD	Ok,M
14	VIBLK	VL041900.D	14 Jan 2025 20:07	SY/MD	Ok
15	Q1073-04	VL041901.D	14 Jan 2025 20:40	SY/MD	Ok,M
16	Q1073-04DUP	VL041902.D	14 Jan 2025 21:14	SY/MD	Ok,M
17	Q1073-05	VL041903.D	14 Jan 2025 21:47	SY/MD	Ok,M
18	Q1073-06	VL041904.D	14 Jan 2025 22:21	SY/MD	Ok,M
19	Q1073-01	VL041905.D	14 Jan 2025 22:51	SY/MD	Ok,M
20	Q1073-02	VL041906.D	14 Jan 2025 23:22	SY/MD	Ok,M
21	Q1073-03	VL041907.D	14 Jan 2025 23:52	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574,MDL,AP2572,AP2573			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VIBLK	VL041908.D	15 Jan 2025 00:22	SY/MD	Ok
23	MDL 0.4	VL041909.D	15 Jan 2025 00:52	SY/MD	Ok,M
24	MDL 0.4	VL041910.D	15 Jan 2025 01:23	SY/MD	Ok,M
25	MDL 0.1	VL041911.D	15 Jan 2025 01:53	SY/MD	Ok,M
26	MDL 0.1	VL041912.D	15 Jan 2025 02:23	SY/MD	Ok,M
27	MDL 0.03	VL041913.D	15 Jan 2025 02:53	SY/MD	Ok,M
28	MDL 0.03	VL041914.D	15 Jan 2025 03:23	SY/MD	Ok,M
29	VSTDCCC010	VL041915.D	15 Jan 2025 08:37	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL012025

Review By	Maresh Dadoda	Review On	1/21/2025 11:54:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/21/2025 11:55:28 AM		
SubDirectory	VL012025	HP Acquire Method	MSVOA_L	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2569				
Initial Calibration Stds	AP2571,AP2572,AP2573				
CCC	AP2571				
Internal Standard/PEM	AP2569				
ICV/I.BLK	AP2574,MDL,AP2572,AP2573				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041916.D	20 Jan 2025 11:53	SY/MD	Ok
2	VSTDCCC010	VL041917.D	20 Jan 2025 12:25	SY/MD	Ok,M
3	VL0120ABL01	VL041918.D	20 Jan 2025 13:07	SY/MD	Ok
4	VL0120ABL02	VL041919.D	20 Jan 2025 14:09	SY/MD	Ok
5	VL0120ABS01	VL041920.D	20 Jan 2025 14:49	SY/MD	Ok,M
6	Q1090-01	VL041921.D	20 Jan 2025 15:41	SY/MD	Not Ok
7	Q1090-02	VL041922.D	20 Jan 2025 16:12	SY/MD	Not Ok
8	VIBLK	VL041923.D	20 Jan 2025 16:43	SY/MD	Ok
9	Q1090-03	VL041924.D	20 Jan 2025 17:31	SY/MD	Not Ok
10	Q1090-04	VL041925.D	20 Jan 2025 18:07	SY/MD	Dilution
11	Q1090-05	VL041926.D	20 Jan 2025 18:42	SY/MD	Ok,M
12	Q1090-05DUP	VL041927.D	20 Jan 2025 19:17	SY/MD	Ok,M
13	Q1138-01	VL041928.D	20 Jan 2025 19:51	SY/MD	Ok,M
14	Q1138-02	VL041929.D	20 Jan 2025 20:26	SY/MD	Ok,M
15	Q1090-01	VL041930.D	20 Jan 2025 21:28	SY/MD	Ok,M
16	Q1090-02	VL041931.D	20 Jan 2025 21:59	SY/MD	Ok,M
17	MDL 0.4	VL041932.D	20 Jan 2025 22:30	SY/MD	Ok,M
18	MDL 0.4	VL041933.D	20 Jan 2025 23:00	SY/MD	Ok,M
19	MDL 0.1	VL041934.D	20 Jan 2025 23:30	SY/MD	Ok,M
20	MDL 0.1	VL041935.D	21 Jan 2025 00:01	SY/MD	Ok,M
21	MDL 0.03	VL041936.D	21 Jan 2025 00:31	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL012025

Review By	Mahesh Dadoda	Review On	1/21/2025 11:54:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/21/2025 11:55:28 AM		
SubDirectory	VL012025	HP Acquire Method	MSVOA_L	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2569				
Initial Calibration Stds	AP2571,AP2572,AP2573				
CCC	AP2571				
Internal Standard/PEM	AP2569				
ICV/I.BLK	AP2574,MDL,AP2572,AP2573				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	MDL 0.03	VL041937.D	21 Jan 2025 01:01	SY/MD	Not Ok
23	Q1090-03	VL041938.D	21 Jan 2025 08:17	SY/MD	Ok,M
24	Q1138-02DUP	VL041939.D	21 Jan 2025 09:14	SY/MD	Ok,M
25	MDL 0.03	VL041940.D	21 Jan 2025 09:44	SY/MD	Ok,M
26	Q1090-04DL	VL041941.D	21 Jan 2025 11:34	SY/MD	Ok,M
27	VSTDCCC010	VL041942.D	21 Jan 2025 12:06	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL011425AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2569		
Initial Calibration Stds	AP2571,AP2572,AP2573		
CCC	AP2571		
Internal Standard/PEM	AP2569		
ICV/I.BLK	AP2574,MDL,AP2572,AP2573		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041887.D	14 Jan 2025 07:50		SY/MD	Ok
2	VSTDIC0.5	VSTDIC0.5	VL041888.D	14 Jan 2025 11:40	not used	SY/MD	Not Ok
3	VSTDICCC010	VSTDICCC010	VL041889.D	14 Jan 2025 12:55		SY/MD	Ok,M
4	VSTDIC002	VSTDIC002	VL041890.D	14 Jan 2025 13:28		SY/MD	Ok,M
5	VSTDIC001	VSTDIC001	VL041891.D	14 Jan 2025 13:59		SY/MD	Ok,M
6	VSTDIC0.5	VSTDIC0.5	VL041892.D	14 Jan 2025 14:30		SY/MD	Ok,M
7	VSTDIC0.1	VSTDIC0.1	VL041893.D	14 Jan 2025 15:01		SY/MD	Ok,M
8	VSTDIC0.03	VSTDIC0.03	VL041894.D	14 Jan 2025 15:32		SY/MD	Ok,M
9	VSTDIC015	VSTDIC015	VL041895.D	14 Jan 2025 16:05		SY/MD	Ok,M
10	VSTDICV010	ICVVL011425	VL041896.D	14 Jan 2025 17:33		SY/MD	Ok,M
11	VL0114ABL01	VL0114ABL01	VL041897.D	14 Jan 2025 18:34		SY/MD	Ok
12	VL0114ABL02	VL0114ABL02	VL041898.D	14 Jan 2025 19:05		SY/MD	Ok
13	VL0114ABS01	VL0114ABS01	VL041899.D	14 Jan 2025 19:36		SY/MD	Ok,M
14	VIBLK	VIBLK	VL041900.D	14 Jan 2025 20:07		SY/MD	Ok
15	Q1073-04	IA1	VL041901.D	14 Jan 2025 20:40		SY/MD	Ok,M
16	Q1073-04DUP	IA1DUP	VL041902.D	14 Jan 2025 21:14		SY/MD	Ok,M
17	Q1073-05	IA2	VL041903.D	14 Jan 2025 21:47		SY/MD	Ok,M
18	Q1073-06	IA3	VL041904.D	14 Jan 2025 22:21		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M HP Processing Method VL011425AIR.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	AP2569 AP2571,AP2572,AP2573		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	AP2571 AP2569 AP2574,MDL,AP2572,AP2573		

19	Q1073-01	SV1	VL041905.D	14 Jan 2025 22:51		SY/MD	Ok,M
20	Q1073-02	SV2	VL041906.D	14 Jan 2025 23:22		SY/MD	Ok,M
21	Q1073-03	SV3	VL041907.D	14 Jan 2025 23:52		SY/MD	Ok,M
22	VIBLK	VIBLK	VL041908.D	15 Jan 2025 00:22		SY/MD	Ok
23	MDL 0.4	MDL 0.4	VL041909.D	15 Jan 2025 00:52		SY/MD	Ok,M
24	MDL 0.4	MDL 0.4	VL041910.D	15 Jan 2025 01:23		SY/MD	Ok,M
25	MDL 0.1	MDL 0.1	VL041911.D	15 Jan 2025 01:53		SY/MD	Ok,M
26	MDL 0.1	MDL 0.1	VL041912.D	15 Jan 2025 02:23		SY/MD	Ok,M
27	MDL 0.03	MDL 0.03	VL041913.D	15 Jan 2025 02:53		SY/MD	Ok,M
28	MDL 0.03	MDL 0.03	VL041914.D	15 Jan 2025 03:23		SY/MD	Ok,M
29	VSTDCCC010	VSTDCCC010EC	VL041915.D	15 Jan 2025 08:37	out of tune	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL012025

Review By	Maresh Dadoda	Review On	1/21/2025 11:54:14 AM
Supervise By	Semsettin Yesilyurt	Supervise On	1/21/2025 11:55:28 AM
SubDirectory	VL012025	HP Acquire Method	MSVOA_L
		HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574,MDL,AP2572,AP2573
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041916.D	20 Jan 2025 11:53		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL041917.D	20 Jan 2025 12:25		SY/MD	Ok,M
3	VL0120ABL01	VL0120ABL01	VL041918.D	20 Jan 2025 13:07		SY/MD	Ok
4	VL0120ABL02	VL0120ABL02	VL041919.D	20 Jan 2025 14:09		SY/MD	Ok
5	VL0120ABS01	VL0120ABS01	VL041920.D	20 Jan 2025 14:49		SY/MD	Ok,M
6	Q1090-01	SV1	VL041921.D	20 Jan 2025 15:41	need straight run	SY/MD	Not Ok
7	Q1090-02	SV2	VL041922.D	20 Jan 2025 16:12	rerun 2X	SY/MD	Not Ok
8	VIBLK	VIBLK	VL041923.D	20 Jan 2025 16:43		SY/MD	Ok
9	Q1090-03	IA1	VL041924.D	20 Jan 2025 17:31	not purge	SY/MD	Not Ok
10	Q1090-04	IA2	VL041925.D	20 Jan 2025 18:07	Need 2X	SY/MD	Dilution
11	Q1090-05	OA1	VL041926.D	20 Jan 2025 18:42		SY/MD	Ok,M
12	Q1090-05DUP	OA1DUP	VL041927.D	20 Jan 2025 19:17		SY/MD	Ok,M
13	Q1138-01	IA1	VL041928.D	20 Jan 2025 19:51		SY/MD	Ok,M
14	Q1138-02	IA2	VL041929.D	20 Jan 2025 20:26		SY/MD	Ok,M
15	Q1090-01	SV1	VL041930.D	20 Jan 2025 21:28		SY/MD	Ok,M
16	Q1090-02	SV2	VL041931.D	20 Jan 2025 21:59		SY/MD	Ok,M
17	MDL 0.4	MDL 0.4	VL041932.D	20 Jan 2025 22:30		SY/MD	Ok,M
18	MDL 0.4	MDL 0.4	VL041933.D	20 Jan 2025 23:00		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL012025

Review By	Mahesh Dadoda	Review On	1/21/2025 11:54:14 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/21/2025 11:55:28 AM		
SubDirectory	VL012025	HP Acquire Method	MSVOA_L	HP Processing Method	VL011425AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2569				
Initial Calibration Stds	AP2571,AP2572,AP2573				
CCC	AP2571				
Internal Standard/PEM	AP2569				
ICV/I.BLK	AP2574,MDL,AP2572,AP2573				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	MDL 0.1	MDL 0.1	VL041934.D	20 Jan 2025 23:30		SY/MD	Ok,M
20	MDL 0.1	MDL 0.1	VL041935.D	21 Jan 2025 00:01		SY/MD	Ok,M
21	MDL 0.03	MDL 0.03	VL041936.D	21 Jan 2025 00:31		SY/MD	Ok,M
22	MDL 0.03	MDL 0.03	VL041937.D	21 Jan 2025 01:01	not used	SY/MD	Not Ok
23	Q1090-03	IA1	VL041938.D	21 Jan 2025 08:17		SY/MD	Ok,M
24	Q1138-02DUP	IA2DUP	VL041939.D	21 Jan 2025 09:14		SY/MD	Ok,M
25	MDL 0.03	MDL 0.03	VL041940.D	21 Jan 2025 09:44		SY/MD	Ok,M
26	Q1090-04DL	IA2DL	VL041941.D	21 Jan 2025 11:34		SY/MD	Ok,M
27	VSTDCCC010	VSTDCCC010EC	VL041942.D	21 Jan 2025 12:06	out of tune time	SY/MD	Not Ok

M : Manual Integration

Client Contact Information		Bottle Order ID : B2501014	Courier : FGALDUN	2 of 2 COCs
Client ID : GFEL01	Project ID : 181 HASTING AVE, BROOKLYN, NY	Sampler Name(s) : FRANK GALDUN		
Customer Name : GFE LLC	Project Manager : FRANK GALDUN	Analysis		
Address : 58 Nokomis Ave	Phone Number : 646-542-3465	Matrix		
	Fax Number : 973-334-1692			
	Site Details : 236 Utopia Parkway, Flushing, NY			
City : Lake Hiawatha	Analysis Turnaround Time	AIR ANALYSIS		
State : NJ	Standard : 10 business days OR Days	CHAIN-OF-CUSTODY		
Zip Code : 07034	Rush (Specify):	Data Package Type : Results only	Batch Certified	
Country :		EDD Type :		
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg") (Start)
IA2 11/16/10	10:56	10:56	12:36	3
		Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg") (Lab)
		50	52	-2.7
		Can Vacuum In Field ("Hg") (Stop)**		
		3		
		Flow Controller Readout (ml/min)	Can ID	Can Cert ID
		50	10323	VL041614.D
		Flow Reg. ID	10528	6 L
				TO-15
				Indoor Ambient Air
				Soil Gas
GC/MS Analyst Signature (TO-15)				
GC/MS Analyst Signature (TO-15) Submittal of this COC indicates approval of the analysis based on existing conditions. Report only: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, vinyl chloride Please follow the instructions on the back of this COC.				
Special Instructions/QC Requirements & Comments :				
Suspected Contamination: High Medium Low				
Sampling site (State):				
Quick Connector required : No				
Canisters Shipped by: Seymour				
Samples Relinquished by: Seymour				
Relinquished by:				
Date/Time: 01/19/25				
Canisters Received by: Seymour				
Date/Time: 11/18/25				
Received by:				
Date/Time:				
PID Readings: 0.0				
B2501014 - 1				

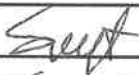
Client Contact Information		Bottle Order ID : B2501014		Courier : FGALDUN		1 of 2 COCs	
Client ID : GFE01		Project ID :		Sampler Name(s) : F		Analysis	
Customer Name : GFE LLC		Project Manager : FRANK GALDUN		AIR ANALYSIS		Matrix	
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY			
City : Lake Hiawatha		Fax Number : 973-334-1692		Batch Certified			
State : NJ		Analysis Turnaround Time					
Zip Code : 07034		Standard : 10 business days		Data Package Type : Results only			
Country :		Rush (Specify):		EDD Type :			
Sample Identification		Sample Date(s)		Time Start (24 hr Clock)		Time Stop (24 hr Clock)	
IAI 11/17/01		11/17/01		1:01		2:01	
Can Vacuum in Field ("Hg) (Start)**		Can Vacuum in Field ("Hg) (Stop)		Interior Temp. (F) (Start)		Interior Temp. (F) (Stop)	
B35/L 30		5		60		65	
Out going Can Pressure ("Hg)(Lab)		In coming Can Pressure ("Hg)(Lab)		Flow Controller Readout (ml/min)		Can Cert ID	
-30		-5.9		50		VL041614.D	
Temperature (Fahrenheit)		Minimum		Maximum		Ambient	
Start							
Stop							
Pressure (Inches of Hg)		Minimum		Maximum		Ambient	
Start							
Stop							
Special Instructions/QC Requirements & Comments :							
Suspected Contamination: High Medium Low							
Sampling site (State):							
Quick Connector required : No							
Canisters Shipped by: E&S		Date/Time: 11/14/01		Canisters Received by: [Signature]		Date/Time: 11/20/01	
Samples Relinquished by: [Signature]		Date/Time: 11/19/01		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
B2501014 - 2							

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
<u>GORGE</u>		Title: <u>Sample Custodian</u>	
Field Sample Seal No. <u>Q1138</u>		Date Broken <u>1/20/2025</u> Military Time Seal Broken: <u>07:00:00</u>	
Case No.: <u>21-36 Utopia Parkway, Flu</u>		Analytical Parameter/Fraction <u>MOCMS Group3</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1138-01	IA1		
Q1138-02	IA2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
1/20	1110	Signature 	Signature 	
		Printed Name <u>GORGE N.</u>	Printed Name <u>Security Guard</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

Process Report

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

Order ID : Q1138

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
01/21/2025	B2501014	Q1138-01	-5.9	10607	6 L	10185		C2409002	VL041614.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D
01/21/2025	B2501014	Q1138-02	-2.7	10323	6 L	10528		C2409002	VL041614.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D

10323

7-2-1

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8888

CHEMTECH

Client Sample ID #: IA2

Client Name: IA2

Project Name: UTOPIA

Date: 11/7 Time: 10-15

Analysis: 10-15

Comments: 10-15

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration Date: _____ Date

Storage Location: VOA Lab

Sample: Q1138-02

Cust #: IA2

8922

B2501014

10901

6-5-1

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8888

CHEMTECH

Client Sample ID #: IA1

Client Name: IA1

Project Name: UTOPIA

Date: 11/7 Time: 10-15

Analysis: 10-15

Comments: 10-15

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab

Sample: Q1138-01

Cust #: IA1

8922

B2501014