



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2412035				Courier : F. Galdun				1 of 4 COCs			
Client ID : GFEL01				Project ID : 262 Tangle PL, Brooklyn NY				Sampler Name(s) : FRANK GILDUN				Analysis		Matrix	
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GILDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 75-02 51ST AVE, ELMHURST, NY											
				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY							
				Standard : 10 Business days OR				EDD Type : PDF							
Country :				Rush (Specify): 5 Days											

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SVI	12/18/24	9:28	11:29	29.5	5.5	68	68	-30	5.5	10550	10410	6 L	50	VL041544.D	1		1

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) [Signature]

**** Submittal of this COC indicates approval of the analysis based on existing conditions.**

REPORT ONLY THOSE COMPOUNDS LISTED ON THE ATTACHED PAGE

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0

Sampling site (State):

Quick Connector required : N J			
Canisters Shipped by: SGM	Date/Time: 12/18/24	Canisters Received by:	Date/Time: 12:55
Samples Relinquished by: FM	Date/Time: 12/19/24	Received by: R. Molendy	Date/Time: 12 27 24
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Client Contact Information				Bottle Order ID : B2412035				Courier : FGALDUN				2 of 4 COCs			
Client ID : GFEL01				Project ID : 262 Tamm PL, Brooklyn NY				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix	
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 75-02 51ST AVE ELMHURST, NY											
				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY							
				Standard : 10 business days OR				EDD Type : PDF							
Country :				Rush (Specify): 5 Days											

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
IA1	12/29/11	9:30	11:30	00.5	5	68	68	-30	-5.9	10226	10266	6 L	50	VL041543.D	1	1	

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) [Signature]

****Submittal of this COC indicates approval of the analysis based on existing conditions.**

REPORT ONLY THOSE COMPOUNDS ON THE ATTACHED LIST

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0

Sampling site (State):

Quick Connector required : **No**

Canisters Shipped by: Sam	Date/Time: 12/29/11	Canisters Received by:	Date/Time: 12/29/11
Samples Relinquished by: Sam	Date/Time: 12/29/11	Received by: R. Murphy	Date/Time: 12/27/11
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Client Contact Information				Bottle Order ID : B2412026				Courier : FGALDUN				7 of 7 COCs			
Client ID : GFEL01 Project ID : 262-262-262 Brooklyn NY				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix			
Customer GFE LLC Name : Address : 58 Nokomis Ave				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 75-02 51ST AVE ELMHURST, NY											
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type RESULTS ONLY							
State : NJ				Standard : 10 Business days OR											
Zip Code : 07034				Rush (Specify): 5 Days				EDD Type : PDF							
Country :															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
IAZ	2/24/24	9:41	11:41	30	5	68	68	-30	6.3	10503	10303	6 L	50	VL041544.D	1	1

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) [Signature]

** Submittal of this COC indicates approval of the analysis based on existing conditions.

REPORT ONLY THOSE COMPOUNDS ON THE ATTACHED LIST

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: **0.0**

Sampling site (State):

Quick Connector required : **NO**

Canisters Shipped by: SPRINT	Date/Time: 12/18/24	Canisters Received by:	Date/Time: 12:55
Samples Relinquished by: FRANK	Date/Time: 12/18/24	Received by: B. Melendez	Date/Time: 12-27-24
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Client Contact Information				Bottle Order ID : B2412026				Courier : FGALDUN				3 of 4 COCs			
Client ID : GFEL01 Project ID : 262-1000-11 Brooklyn, NY				Sampler Name(s) : FRANK GILDUN				Analysis				Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : FRANK GILDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
Site Details: 75-02 51ST AVE ELMHURST, NY															
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY							
State : NJ				Standard : 5 business days OR				EDD Type : PDF							
Zip Code : 07034				Rush (Specify): 5 Days											
Country :															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15			Indoor/Ambient Air	Soil Gas
SV2	12/24/24	9:40	10:40	30.5	1.5	68	68	-30	-6.3	10648	10268	6 L	50	VL041692.D	1				1

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) [Signature]

** Submittal of this COC indicates approval of the analysis based on existing conditions.

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO

Canisters Shipped by: <u>Sam</u>	Date/Time: <u>2/18/24</u>	Canisters Received by:	Date/Time: <u>12:55 12/27/24</u>
Samples Relinquished by: <u>Sam</u>	Date/Time: <u>2/18/24</u>	Received by: <u>Raymond Melendez</u>	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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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 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>QA612</u> :	Title: <u>Sample Custodian</u>
Field Sample Seal No. <u>P5395</u>	Date Broken: <u>12/27/2024</u> Military Time Seal Broken: <u>12:55:00</u>
Case No.: <u>75-02 51st Ave Elmhurst, N</u>	Analytical Parameter/Fraction: <u>MOCMS Group 2</u>

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
P5395-01	SV1		
P5395-02	IA1		
P5395-03	IA2		
P5395-04	SV2		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
<u>12-27-24</u>	<u>0823</u>	Signature		Signature		
		Printed Name	<u>Jahmir Davis</u>	Printed Name	<u>Security</u>	
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		

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

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

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

LAB CHRONICLE

OrderID:	P5395	OrderDate:	12/27/2024 2:02:34 PM
Client:	GFE LLC	Project:	75-02 51st Avenue Elmhurst, NY
Contact:	Frank Galdun	Location:	Air Lab, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5395-01	SV1	Air	VOCMS Group2	TO-15	12/27/24		01/03/25	12/27/24
P5395-02	IA1	Air	VOCMS Group2	TO-15	12/27/24		01/03/25	12/27/24
P5395-03	IA2	Air	VOCMS Group2	TO-15	12/27/24		01/03/25	12/27/24
P5395-03DUP	IA2DUP	Air	VOCMS Group2	TO-15	12/27/24		01/03/25	12/27/24
P5395-04	SV2	Air	VOCMS Group2	TO-15	12/27/24		01/03/25	12/27/24

Hit Summary Sheet SW-846

SDG No.: P5395

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
P5395-01	SV1	Air	Benzene	1.28	J	1.12	6.39	ug/m3
P5395-01	SV1	Air	Toluene	7.54		1.66	7.54	ug/m3
P5395-01	SV1	Air	Tetrachloroethene	29.2		0.41	0.81	ug/m3
P5395-01	SV1	Air	m/p-Xylene	6.08	J	3.65	17.4	ug/m3
P5395-01	SV1	Air	o-Xylene	3.65	J	2.08	8.69	ug/m3
P5395-01	SV1	Air	1,3,5-Trimethylbenzene	2.95	J	2.16	9.83	ug/m3
P5395-01	SV1	Air	1,2,4-Trimethylbenzene	7.87	J	1.52	9.83	ug/m3
P5395-01	SV1	Air	Hexane	6.34	J	1.55	7.05	ug/m3
Total Voc :				64.9				
Total Concentration:				64.9				
Client ID:	IA1							
P5395-02	IA1	Air	2,2,4-Trimethylpentane	0.61	J	0.47	2.34	ug/m3
P5395-02	IA1	Air	Benzene	1.44	J	0.29	1.60	ug/m3
P5395-02	IA1	Air	Toluene	1.51	J	0.41	1.88	ug/m3
P5395-02	IA1	Air	Tetrachloroethene	0.34		0.14	0.20	ug/m3
P5395-02	IA1	Air	Hexane	0.70	J	0.39	1.76	ug/m3
Total Voc :				4.60				
Total Concentration:				4.60				
Client ID:	IA2							
P5395-03	IA2	Air	2,2,4-Trimethylpentane	0.61	J	0.47	2.34	ug/m3
P5395-03	IA2	Air	Benzene	1.41	J	0.29	1.60	ug/m3
P5395-03	IA2	Air	Toluene	1.43	J	0.41	1.88	ug/m3
P5395-03	IA2	Air	Tetrachloroethene	0.27		0.14	0.20	ug/m3
P5395-03	IA2	Air	Hexane	0.63	J	0.39	1.76	ug/m3
Total Voc :				4.35				
Total Concentration:				4.35				
Client ID:	SV2							
P5395-04	SV2	Air	Toluene	7.16	J	1.66	7.54	ug/m3
P5395-04	SV2	Air	Tetrachloroethene	8.14		0.41	0.81	ug/m3
P5395-04	SV2	Air	m/p-Xylene	5.21	J	3.65	17.4	ug/m3
P5395-04	SV2	Air	o-Xylene	2.61	J	2.08	8.69	ug/m3
P5395-04	SV2	Air	1,2,4-Trimethylbenzene	3.93	J	1.52	9.83	ug/m3
P5395-04	SV2	Air	Hexane	2.11	J	1.55	7.05	ug/m3
Total Voc :				29.2				
Total Concentration:				29.2				



QC SUMMARY

Surrogate Summary

SDG No.: P5395

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5395-01	SV1	1-Bromo-4-Fluorobenzene	10	10.6	106	65	135
P5395-02	IA1	1-Bromo-4-Fluorobenzene	10	9.74	97	65	135
P5395-03	IA2	1-Bromo-4-Fluorobenzene	10	9.52	95	65	135
P5395-03DUP	IA2DUP	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
P5395-04	SV2	1-Bromo-4-Fluorobenzene	10	10.6	106	65	135
VL0103ABL01	VL0103ABL01	1-Bromo-4-Fluorobenzene	10	9.68	97	65	135
VL0103ABS01	VL0103ABS01	1-Bromo-4-Fluorobenzene	10	10.4	104	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5395

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL041835.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0103ABS01	Vinyl Chloride	10	8.50	ppbv	85			70	130	
	Heptane	10	8.70	ppbv	87			70	130	
	1,1-Dichloroethene	10	8.20	ppbv	82			70	130	
	Cyclohexane	10	8.30	ppbv	83			70	130	
	cis-1,2-Dichloroethene	10	8.30	ppbv	83			70	130	
	1,1,1-Trichloroethane	10	8.50	ppbv	85			70	130	
	2,2,4-Trimethylpentane	10	10.4	ppbv	104			70	130	
	Benzene	10	9.70	ppbv	97			70	130	
	Trichloroethene	10	8.70	ppbv	87			70	130	
	Toluene	10	9.10	ppbv	91			70	130	
	1,2-Dibromoethane	10	9.70	ppbv	97			70	130	
	Tetrachloroethene	10	8.50	ppbv	85			70	130	
	Ethyl Benzene	10	9.70	ppbv	97			70	130	
	m/p-Xylene	20	20.6	ppbv	103			70	130	
	o-Xylene	10	10.2	ppbv	102			70	130	
	1,3,5-Trimethylbenzene	10	10.7	ppbv	107			70	130	
	1,2,4-Trimethylbenzene	10	11.1	ppbv	111			70	130	
	Naphthalene	10	11.0	ppbv	110			70	130	
	Hexane	10	8.70	ppbv	87			70	130	

Duplicate Sample Summary

Lab Sample Id :	P5395-03DUP	P5395-03
Client Id :	IA2DUP	IA2
DF :	1	1
Datafile :	VL041834.D	VL041833.D
Anal Date & Time :	01/03/2025 19:30	01/03/2025 18:00

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,2-Dibromoethane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
2,2,4-Trimethylpentane	0.12	0.13	8
Benzene	0.47	0.44	6.6
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexane	0.17	0.18	5.7
m/p-Xylene	0.2	0	200 *
Naphthalene	0	0	0
o-Xylene	0	0	0
Tetrachloroethene	0.05	0.04	22.2 *
Toluene	0.39	0.38	2.6
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA2DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: P5395

SAS No.: P5395 SDG NO.: P5395

Lab File ID: VL041834.D

Lab Sample ID: P5395-03DUP

Date Analyzed: 01/03/2025

Time Analyzed: 19:30

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
IA2DUP	P5395-03DUP	VL041834.D	01/03/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0103ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: P5395

SAS No.: P5395 SDG NO.: P5395

Lab File ID: VL041829.D

Lab Sample ID: VL0103ABL01

Date Analyzed: 01/03/2025

Time Analyzed: 15:48

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
SV1	P5395-01	VL041830.D	01/03/2025
SV2	P5395-04	VL041831.D	01/03/2025
IA1	P5395-02	VL041832.D	01/03/2025
IA2	P5395-03	VL041833.D	01/03/2025
VL0103ABS01	VL0103ABS01	VL041835.D	01/03/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: P5395 SAS No.: P5395 SDG NO.: P5395
Lab File ID: VL041750.D BFB Injection Date: 12/16/2024
Instrument ID: MSVOA_L BFB Injection Time: 12:02
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	25.4
75	30.0 - 66.0% of mass 95	61.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	63.2
175	4.0 - 9.0% of mass 174	3.4 (5.5) 1
176	93.0 - 101.0% of mass 174	60 (95) 1
177	5.0 - 9.0% of mass 176	3.8 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL041752.D	12/16/2024	13:30
VSTDICCC002	VSTDICCC002	VL041753.D	12/16/2024	14:03
VSTDICCC001	VSTDICCC001	VL041754.D	12/16/2024	14:34
VSTDICCC0.5	VSTDICCC0.5	VL041755.D	12/16/2024	15:05
VSTDICCC0.1	VSTDICCC0.1	VL041756.D	12/16/2024	15:37
VSTDICCC0.03	VSTDICCC0.03	VL041757.D	12/16/2024	16:08
VSTDICCC015	VSTDICCC015	VL041758.D	12/16/2024	16:41

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: P5395 SAS No.: P5395 SDG NO.: P5395
Lab File ID: VL041827.D BFB Injection Date: 01/03/2025
Instrument ID: MSVOA_L BFB Injection Time: 13:33
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	26.1
75	30.0 - 66.0% of mass 95	61.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 120.0% of mass 95	56.2
175	4.0 - 9.0% of mass 174	4.6 (8.2) 1
176	93.0 - 101.0% of mass 174	55 (97.9) 1
177	5.0 - 9.0% of mass 176	3.4 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL041828.D	01/03/2025	14:25
VL0103ABL01	VL0103ABL01	VL041829.D	01/03/2025	15:48
SV1	P5395-01	VL041830.D	01/03/2025	16:19
SV2	P5395-04	VL041831.D	01/03/2025	16:50
IA1	P5395-02	VL041832.D	01/03/2025	17:25
IA2	P5395-03	VL041833.D	01/03/2025	18:00
IA2DUP	P5395-03DUP	VL041834.D	01/03/2025	19:30
VL0103ABS01	VL0103ABS01	VL041835.D	01/03/2025	20:18

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: P5395 SAS No.: P5395 SDG NO.: P5395
 Lab File ID: VL041828.D Date Analyzed: 01/03/2025
 Instrument ID: MSVOA_L Time Analyzed: 14:25
 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	88552	2.80	217974	3.98	197278	8.90
UPPER LIMIT	123973	3.13	305164	4.31	276189	9.23
LOWER LIMIT	53131.2	2.47	130784	3.65	118367	8.57
EPA SAMPLE NO.						
SV1	84953	2.81	209918	3.99	185698	8.90
IA1	83560	2.80	203898	3.98	178759	8.90
IA2	86367	2.80	211807	3.98	179558	8.90
IA2DUP	84162	2.80	198450	3.98	169491	8.90
SV2	84721	2.80	202396	3.98	181750	8.90
VL0103ABL01	85723	2.80	203573	3.98	176522	8.90
VL0103ABS01	85315	2.80	202909	3.98	176917	8.90

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

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

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



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	12/27/24
Project:	75-02 51st Avenue Elmhurst, NY	Date Received:	12/27/24
Client Sample ID:	SV1	SDG No.:	P5395
Lab Sample ID:	P5395-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041830.D	4		01/03/25 16:19	VL010325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
142-82-5	Heptane	0.44	1.80	U	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	0.40	1.28	J	1.12	6.39	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
108-88-3	Toluene	2.00	7.54		1.66	7.54	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	4.30	29.2		0.41	0.81	ug/m3
100-41-4	Ethyl Benzene	0.48	2.08	U	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	1.40	6.08	J	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.84	3.65	J	2.08	8.69	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.60	2.95	J	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.60	7.87	J	1.52	9.83	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
110-54-3	Hexane	1.80	6.34	J	1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	85000		2.807			
540-36-3	1,4-Difluorobenzene	210000		3.988			
3114-55-4	Chlorobenzene-d5	186000		8.904			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041830.D
 Acq On : 03 Jan 2025 16:19
 Operator : SY/MD
 Sample : P5395-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025
 Supervised By :Mahesh Dadoda 01/06/2025

Quant Time: Jan 03 16:42:13 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.807	49	84953	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.988	114	209918	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	185698	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	163901	10.592	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	2080	0.138	ppbv	96
9) Propene	1.489	41	4670	0.778	ppbv	98
15) Acetone	1.855	43	64425	3.898	ppbv	99
20) Methylene Chloride	2.075	84	1754	0.372	ppbv	96
26) Hexane	2.845	57	5254	0.450	ppbv #	31
29) Chloroform	2.868	83	6099	0.343	ppbv	93
34) 2-Butanone	2.583	43	5555	0.329	ppbv	98
36) Benzene	3.677	78	2169	0.100	ppbv #	71
52) Tetrachloroethene	8.254	164	8645	1.070	ppbv	96
53) Toluene	6.969	91	12602m	0.512	ppbv	
58) Ethyl Benzene	9.383	91	3350m	0.100	ppbv	
59) m/p-Xylene	9.552	91	9334	0.347	ppbv #	100
60) o-Xylene	9.982	91	5731m	0.213	ppbv	
73) 1,3,5-Trimethylbenzene	11.222	105	3851	0.146	ppbv #	79
74) 1,2,4-Trimethylbenzene	11.552	105	11033	0.389	ppbv #	56

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

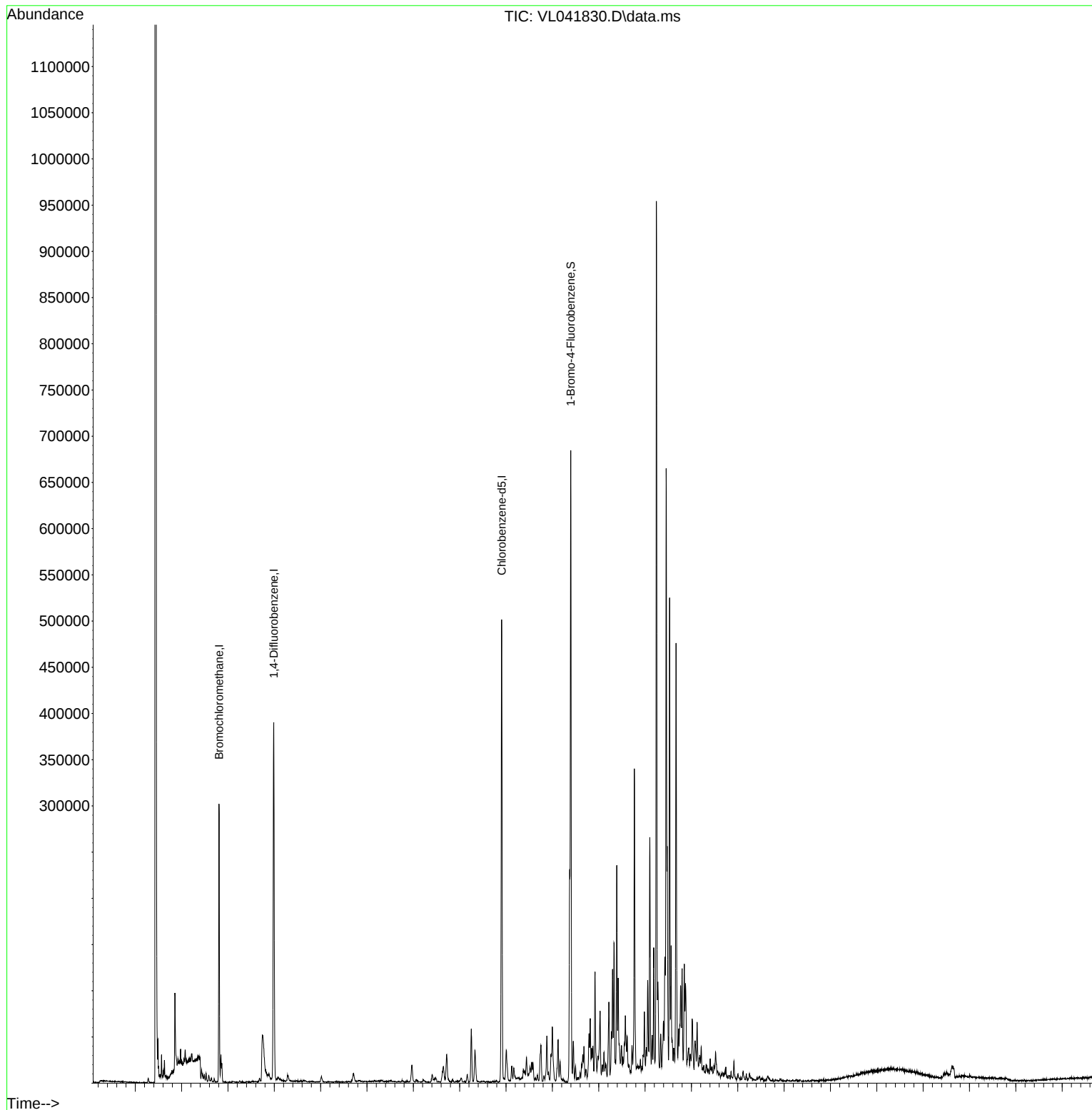
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
Data File : VL041830.D
Acq On : 03 Jan 2025 16:19
Operator : SY/MD
Sample : P5395-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

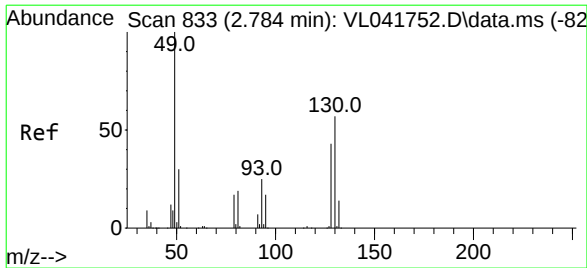
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Jan 03 16:42:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/06/2025
Supervised By : Mahesh Dadoda 01/06/2025





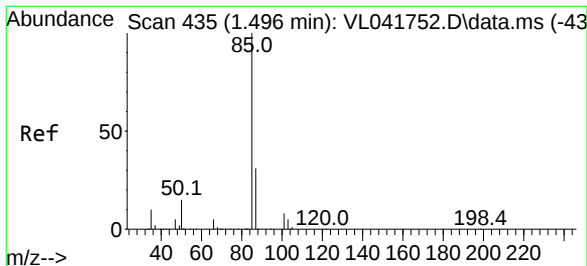
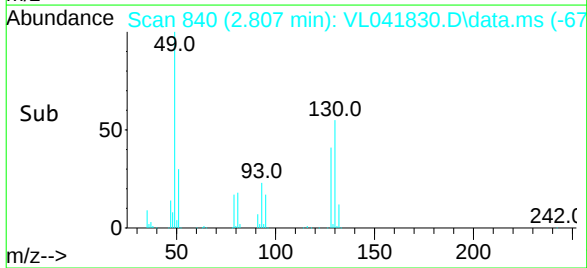
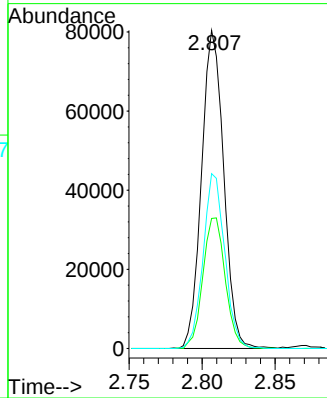
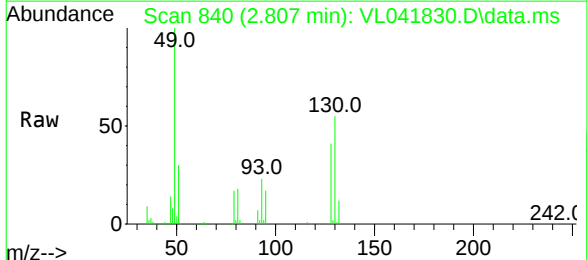
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.807 min Scan# 841
Delta R.T. 0.023 min
Lab File: VL041830.D
Acq: 03 Jan 2025 16:19

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion	Ratio	Lower	Upper
49	100		
128	41.5	21.6	64.6
130	53.7	28.3	85.0

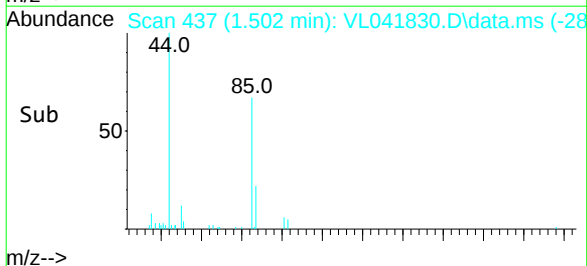
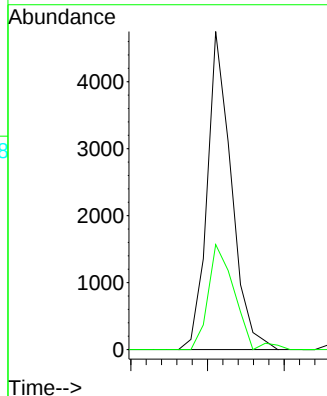
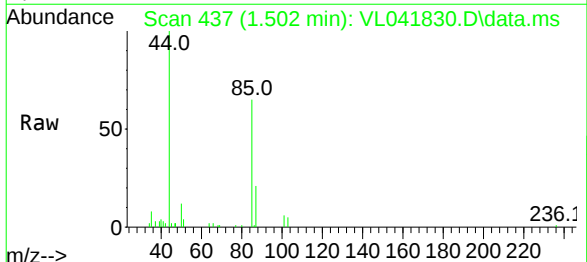
Manual Integrations
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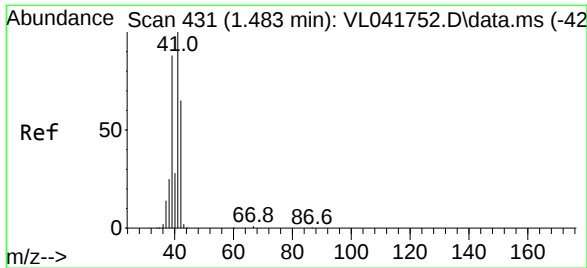
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#2
Dichlorodifluoromethane
Concen: 0.138 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041830.D
Acq: 03 Jan 2025 16:19

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.0	24.5	36.7





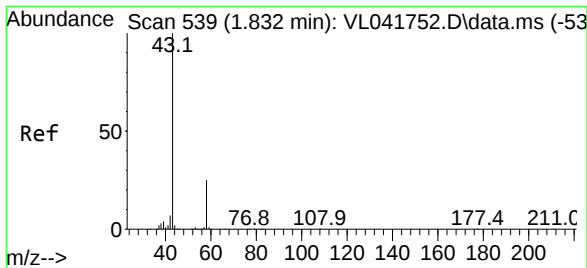
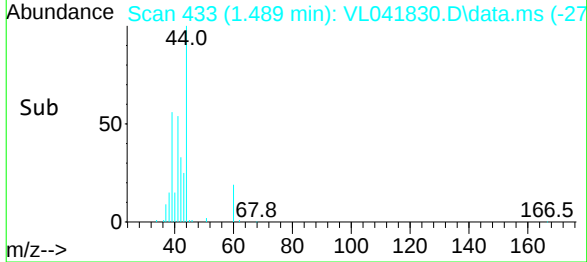
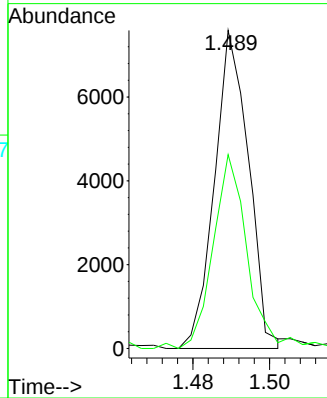
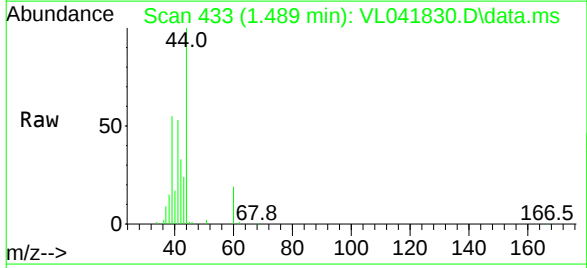
#9
 Propene
 Concen: 0.778 ppbv
 RT: 1.489 min Scan# 431
 Delta R.T. 0.006 min
 Lab File: VL041830.D
 Acq: 03 Jan 2025 16:19

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Tgt Ion: 41 Resp: 4670
 Ion Ratio Lower Upper
 41 100
 42 64.1 52.4 78.6

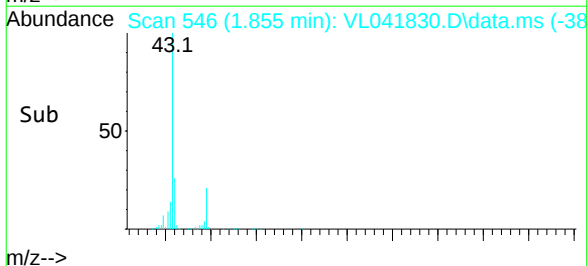
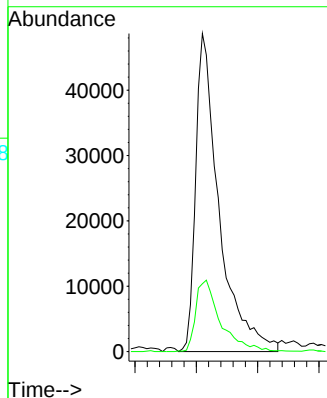
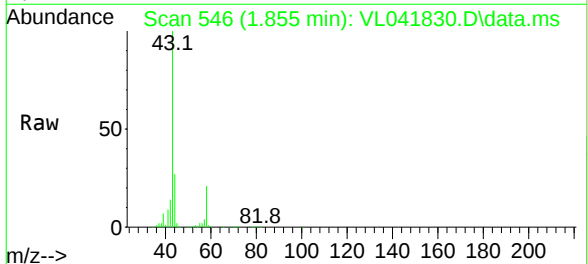
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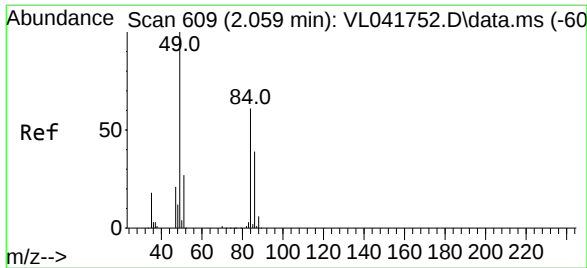
Reviewed By :Semsettin Yesilyurt 01/06/2025
 Supervised By :Mahesh Dadoda 01/06/2025



#15
 Acetone
 Concen: 3.898 ppbv
 RT: 1.855 min Scan# 546
 Delta R.T. 0.022 min
 Lab File: VL041830.D
 Acq: 03 Jan 2025 16:19

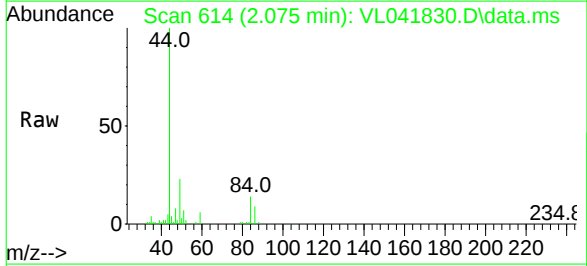
Tgt Ion: 43 Resp: 64425
 Ion Ratio Lower Upper
 43 100
 58 23.9 19.7 29.5





#20
Methylene Chloride
Concen: 0.372 ppbv
RT: 2.075 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL041830.D
Acq: 03 Jan 2025 16:19

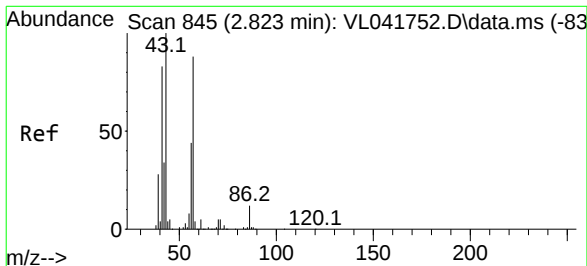
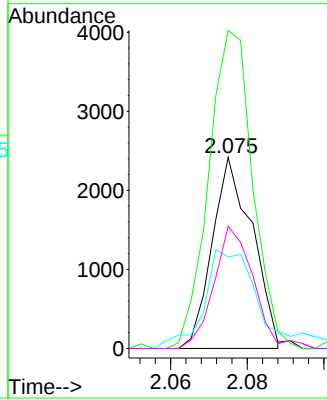
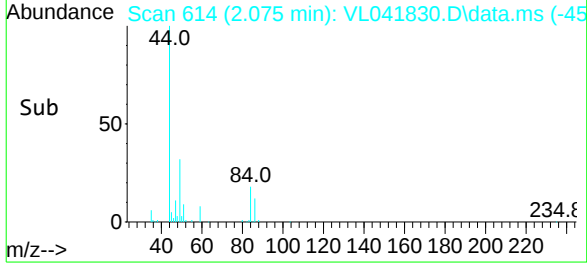
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion	Ratio	Lower	Upper
84	100		
49	159.8	132.6	198.8
51	40.9	37.6	56.4
86	63.9	51.4	77.0

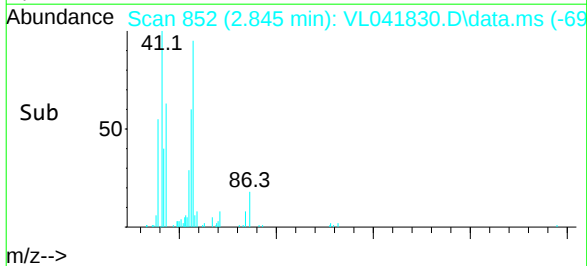
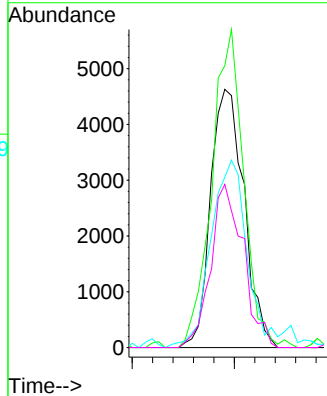
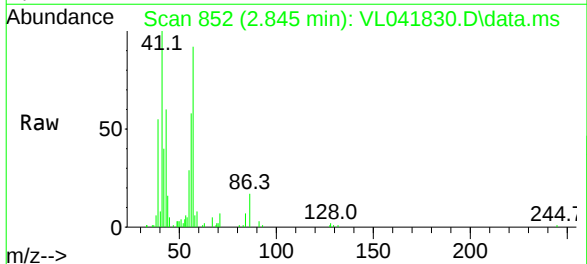
Manual Integrations
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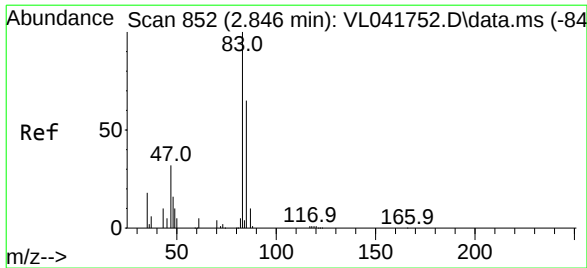
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#26
Hexane
Concen: 0.450 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.022 min
Lab File: VL041830.D
Acq: 03 Jan 2025 16:19

Tgt Ion	Ratio	Lower	Upper
57	100		
41	117.8	79.6	119.4
43	84.8	211.0	316.6#
56	61.7	42.6	63.8





#29

Chloroform

Concen: 0.343 ppbv

RT: 2.868 min Scan# 85

Delta R.T. 0.022 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 83 Resp: 6099

Ion Ratio Lower Upper

83 100

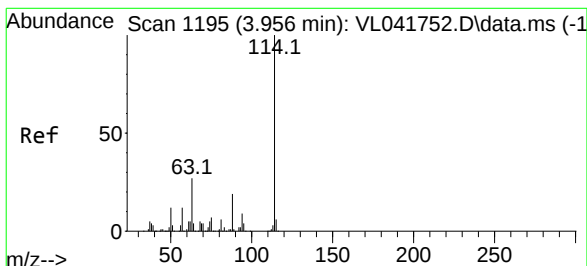
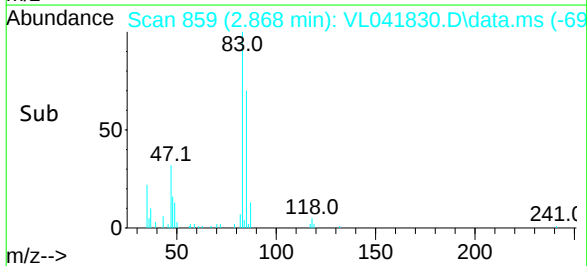
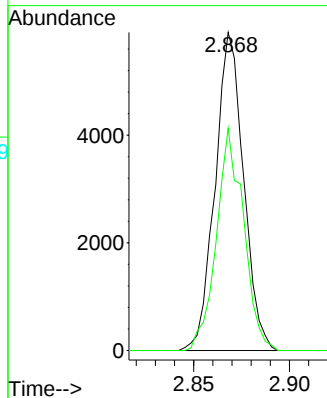
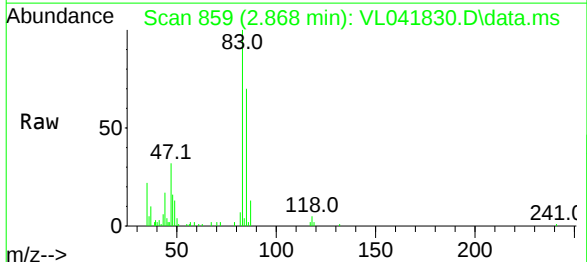
85 69.9 51.8 77.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025

Supervised By :Mahesh Dadoda 01/06/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.988 min Scan# 1205

Delta R.T. 0.032 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

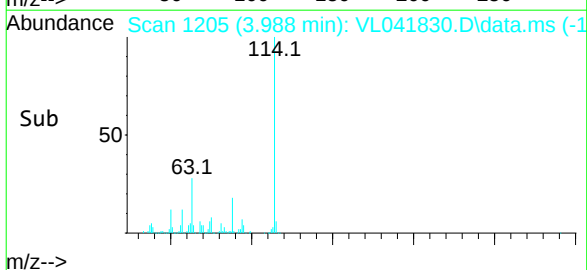
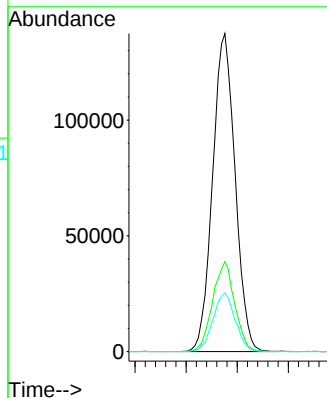
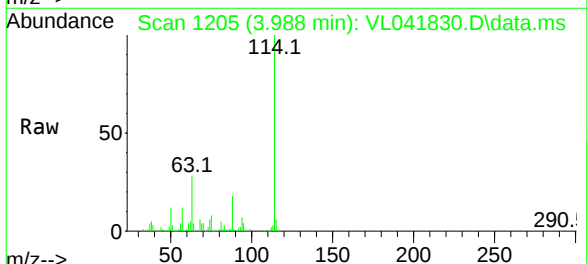
Tgt Ion:114 Resp: 209918

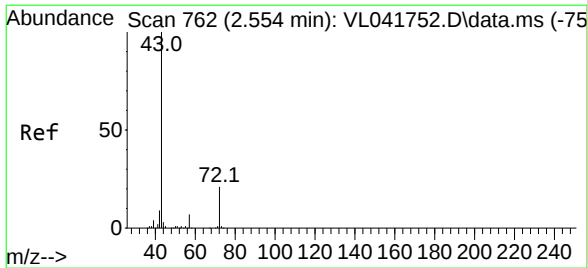
Ion Ratio Lower Upper

114 100

63 27.8 21.8 32.8

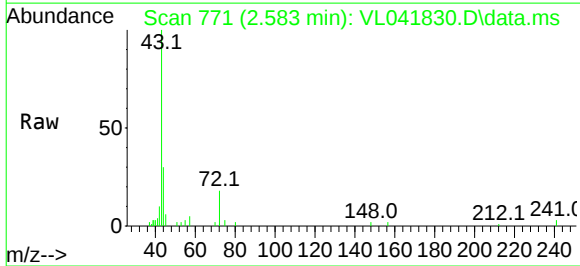
88 18.1 14.8 22.2





#34
2-Butanone
Concen: 0.329 ppbv
RT: 2.583 min Scan# 771
Delta R.T. 0.029 min
Lab File: VL041830.D
Acq: 03 Jan 2025 16:19

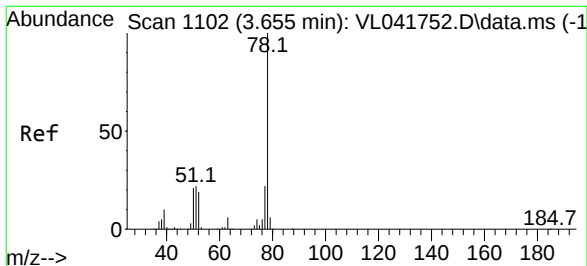
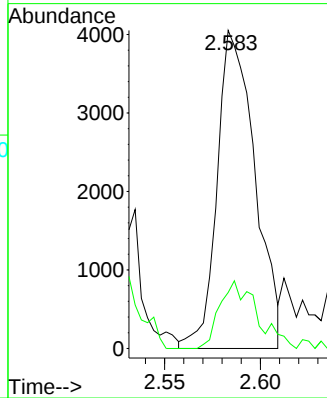
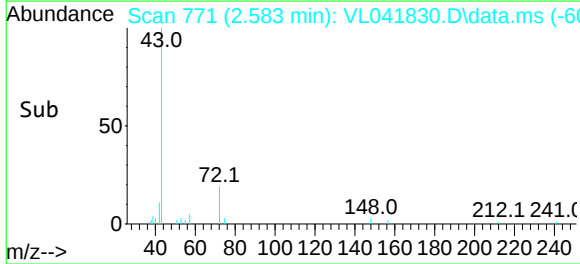
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 5555
Ion Ratio Lower Upper
43 100
72 22.0 16.8 25.2

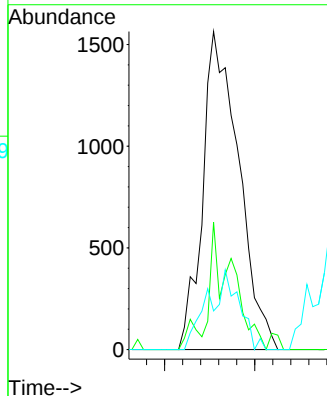
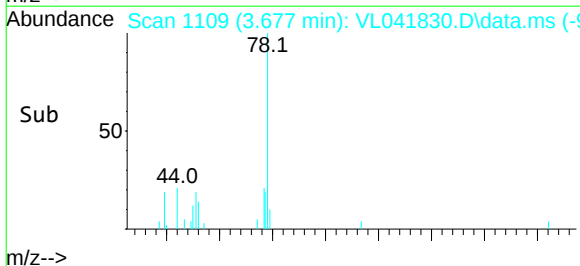
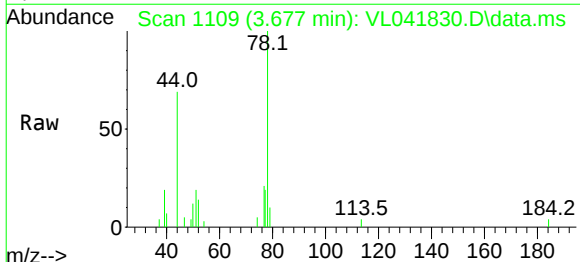
Manual Integrations
APPROVED

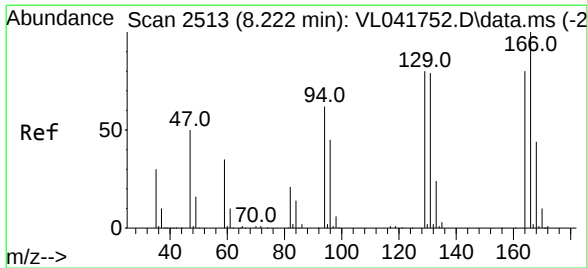
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#36
Benzene
Concen: 0.100 ppbv
RT: 3.677 min Scan# 1109
Delta R.T. 0.022 min
Lab File: VL041830.D
Acq: 03 Jan 2025 16:19

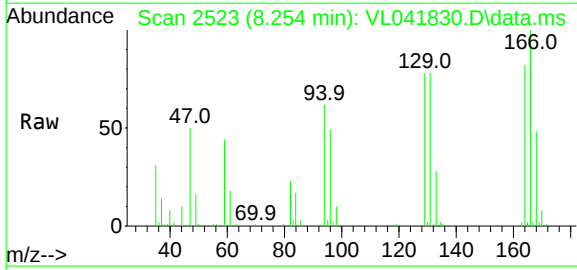
Tgt Ion: 78 Resp: 2169
Ion Ratio Lower Upper
78 100
77 40.0 17.8 26.6#
50 12.1 17.2 25.8#





#52
Tetrachloroethene
Concen: 1.070 ppbv
RT: 8.254 min Scan# 2513
Delta R.T. 0.032 min
Lab File: VL041830.D
Acq: 03 Jan 2025 16:19

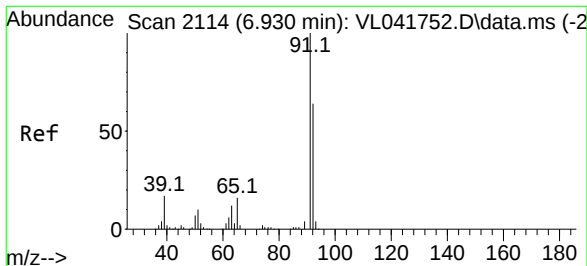
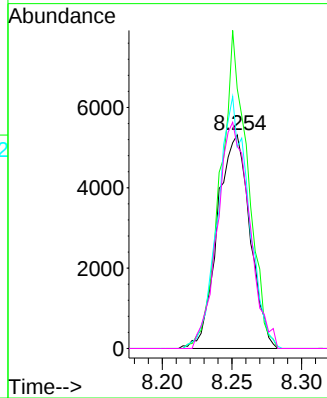
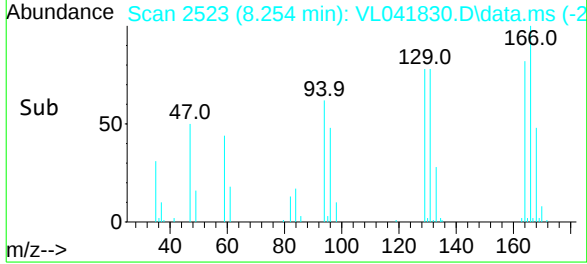
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 164 Resp: 8645
Ion Ratio Lower Upper
164 100
166 121.8 99.8 149.6
129 94.4 79.6 119.4
131 94.8 78.6 117.8

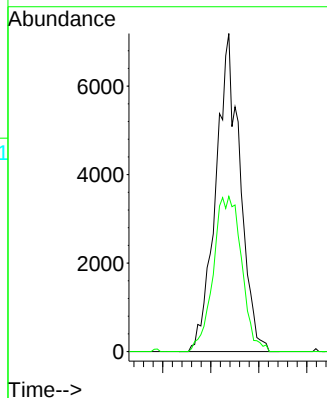
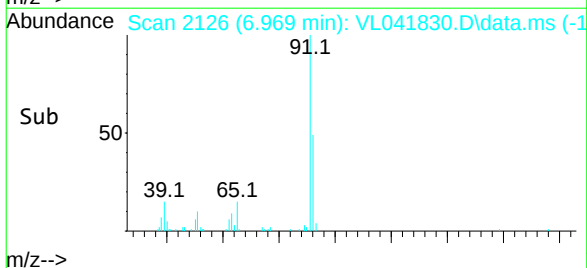
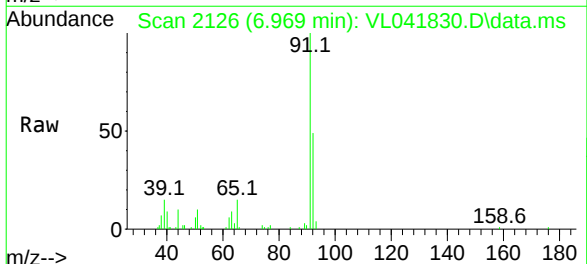
Manual Integrations
APPROVED

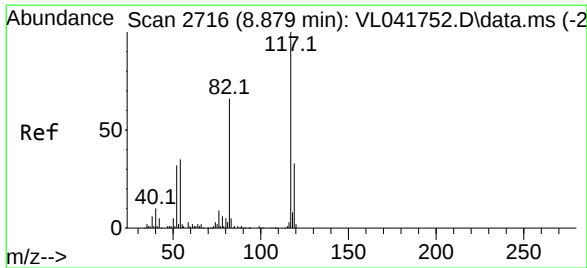
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#53
Toluene
Concen: 0.512 ppbv m
RT: 6.969 min Scan# 2126
Delta R.T. 0.039 min
Lab File: VL041830.D
Acq: 03 Jan 2025 16:19

Tgt Ion: 91 Resp: 12602
Ion Ratio Lower Upper
91 100
92 0.0 47.9 71.9#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.904 min Scan# 2716

Delta R.T. 0.026 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

Instrument :

MSVOA_L

ClientSampleId :

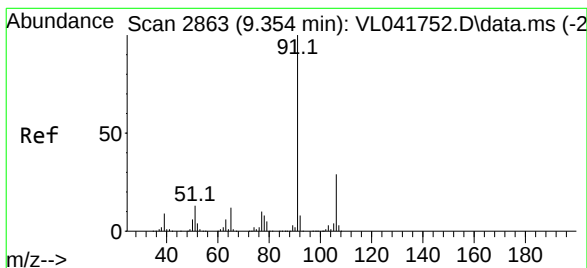
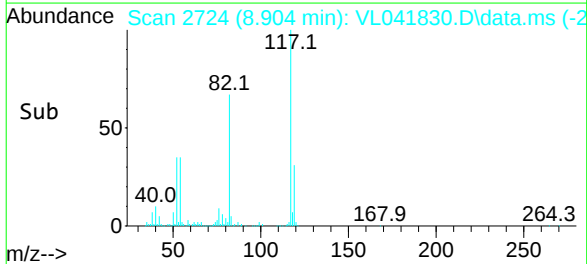
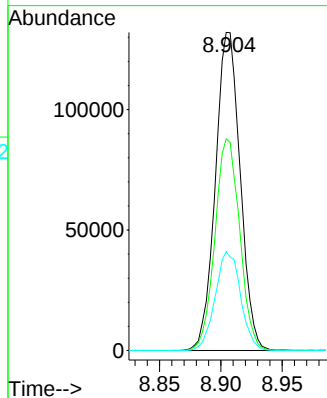
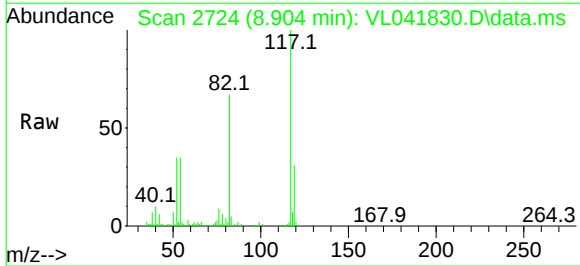
SV1

Tgt Ion:	117	Resp:	185698
Ion Ratio	Lower	Upper	
117	100		
82	66.6	53.8	80.8
119	31.8	26.7	40.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#58

Ethyl Benzene

Concen: 0.100 ppbv m

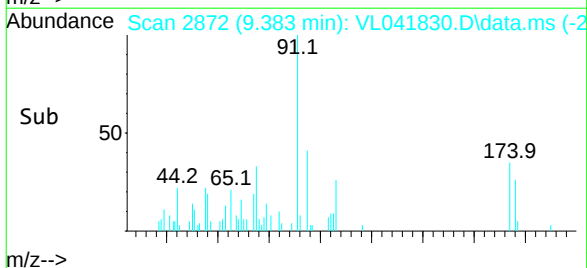
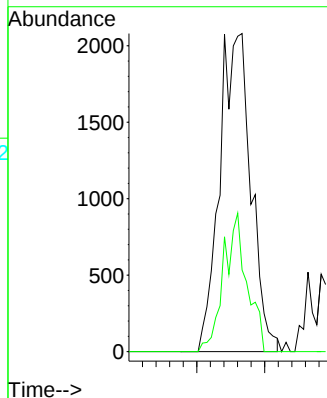
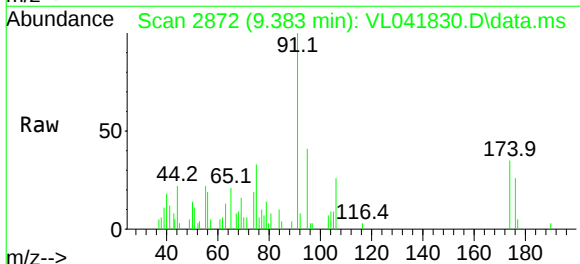
RT: 9.383 min Scan# 2872

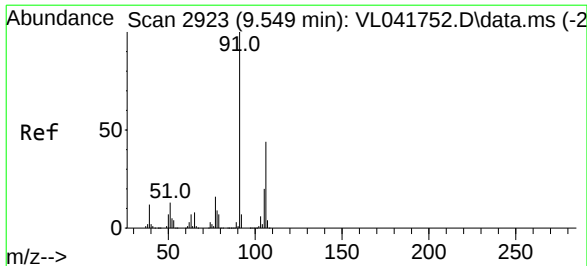
Delta R.T. 0.029 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

Tgt Ion:	91	Resp:	3350
Ion Ratio	Lower	Upper	
91	100		
106	25.7	23.5	35.3





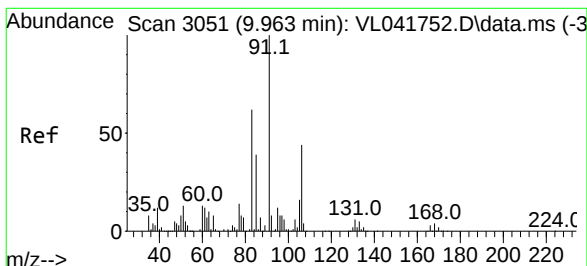
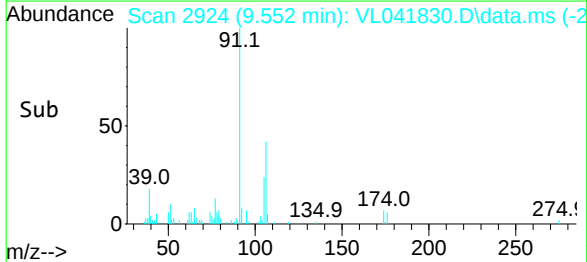
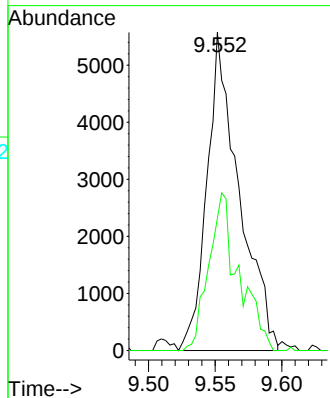
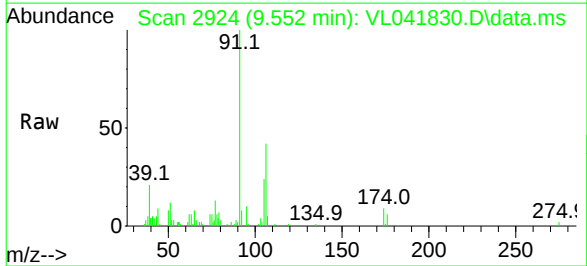
#59
m/p-Xylene
Concen: 0.347 ppbv
RT: 9.552 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL041830.D
Acq: 03 Jan 2025 16:19

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 9334
Ion Ratio Lower Upper
91 100
106 46.6 0.0 0.0#

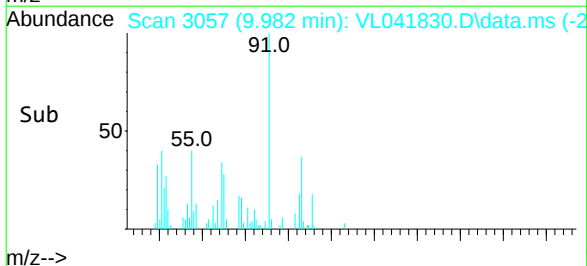
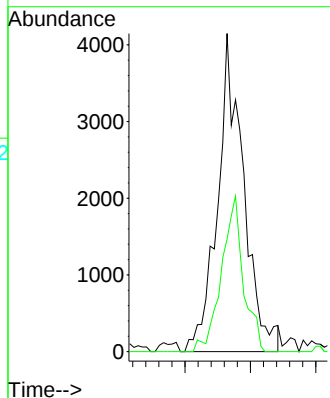
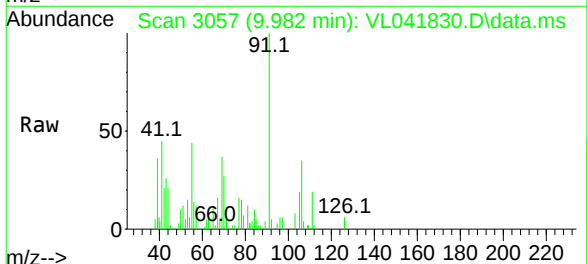
Manual Integrations
APPROVED

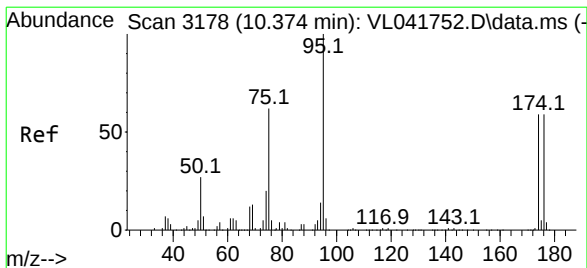
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#60
o-Xylene
Concen: 0.213 ppbv m
RT: 9.982 min Scan# 3057
Delta R.T. 0.019 min
Lab File: VL041830.D
Acq: 03 Jan 2025 16:19

Tgt Ion: 91 Resp: 5731
Ion Ratio Lower Upper
91 100
106 75.9 21.1 63.4#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.592 ppbv

RT: 10.396 min Scan# 3178

Delta R.T. 0.022 min

Lab File: VL041830.D

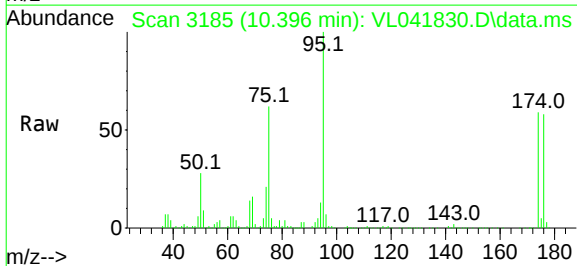
Acq: 03 Jan 2025 16:19

Instrument :

MSVOA_L

ClientSampleId :

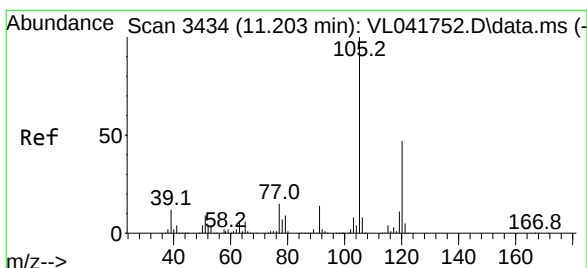
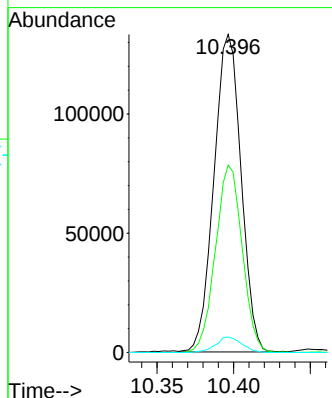
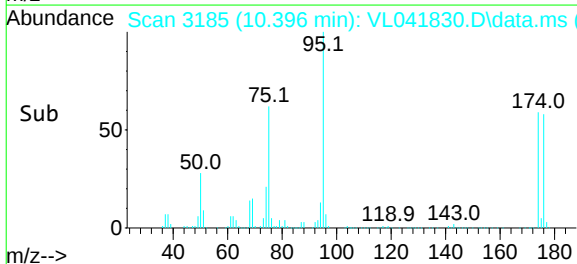
SV1



Tgt Ion:	95	Resp:	163901
Ion	Ratio	Lower	Upper
95	100		
174	58.2	47.6	71.4
175	4.7	3.7	5.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#73

1,3,5-Trimethylbenzene

Concen: 0.146 ppbv

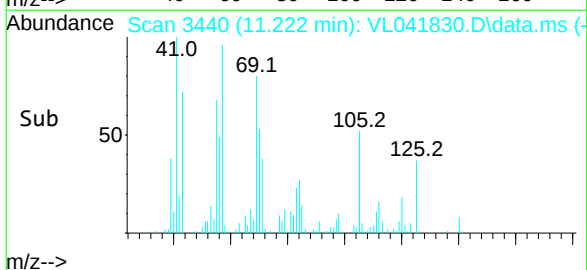
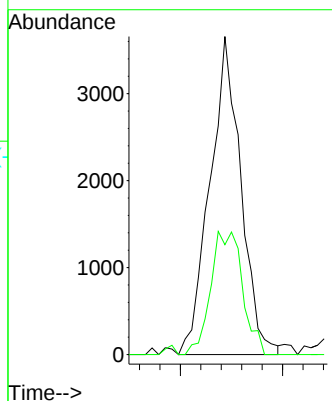
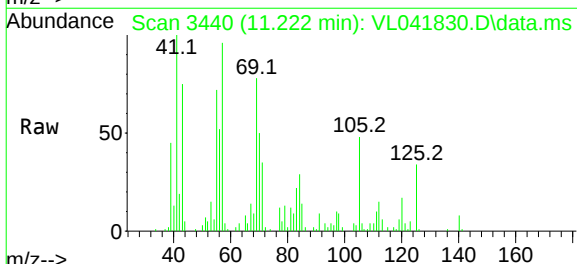
RT: 11.222 min Scan# 3440

Delta R.T. 0.019 min

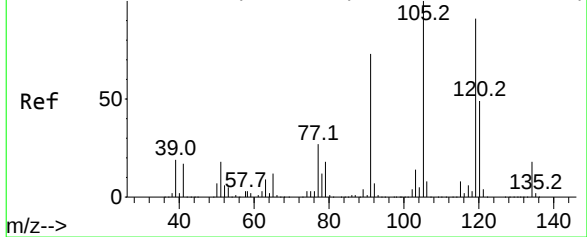
Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

Tgt Ion:	105	Resp:	3851
Ion	Ratio	Lower	Upper
105	100		
120	32.8	37.4	56.2#



Abundance Scan 3537 (11.536 min): VL041752.D\data.ms (-



#74

1,2,4-Trimethylbenzene

Concen: 0.389 ppbv

RT: 11.552 min Scan# 35

Delta R.T. 0.016 min

Lab File: VL041830.D

Acq: 03 Jan 2025 16:19

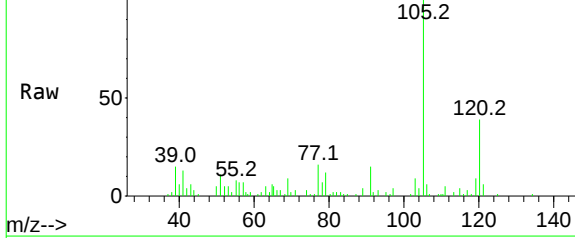
Instrument :

MSVOA_L

ClientSampleId :

SV1

Abundance Scan 3542 (11.552 min): VL041830.D\data.ms



Tgt Ion:105 Resp: 11033

Ion Ratio Lower Upper

105 100

120 38.8 39.0 58.4#

91 14.0 58.1 87.1#

77 12.6 21.8 32.8#

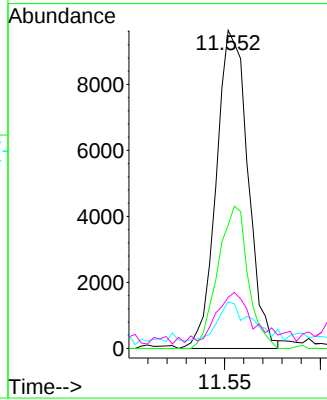
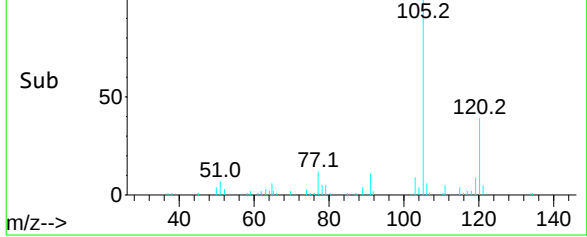
Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025

Supervised By :Mahesh Dadoda 01/06/2025

Abundance Scan 3542 (11.552 min): VL041830.D\data.ms (-



Report of Analysis

Client:	GFE LLC	Date Collected:	12/27/24
Project:	75-02 51st Avenue Elmhurst, NY	Date Received:	12/27/24
Client Sample ID:	IA1	SDG No.:	P5395
Lab Sample ID:	P5395-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041832.D	1		01/03/25 17:25	VL010325

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
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	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
540-84-1	2,2,4-Trimethylpentane	0.13	0.61	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.45	1.44	J	0.29	1.60	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.40	1.51	J	0.41	1.88	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.050	0.34		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
110-54-3	Hexane	0.20	0.70	J	0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.70			65 - 135	97%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	83600		2.803			
540-36-3	1,4-Difluorobenzene	204000		3.978			
3114-55-4	Chlorobenzene-d5	179000		8.904			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041832.D
 Acq On : 03 Jan 2025 17:25
 Operator : SY/MD
 Sample : P5395-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025
 Supervised By :Mahesh Dadoda 01/06/2025

Quant Time: Jan 03 17:47:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	83560	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	203898	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.904	117	178759	10.000	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	145121	9.742	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.400%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.505	85	5323	0.358	ppbv	98
3) Chlorodifluoromethane	1.483	51	3774m	0.277	ppbv	
4) Chloromethane	1.538	50	4114	0.707	ppbv #	87
9) Propene	1.492	41	9149	1.549	ppbv	91
11) Trichlorofluoromethane	1.887	101	3155	0.200	ppbv	96
15) Acetone	1.855	43	139145m	8.558	ppbv	
20) Methylene Chloride	2.072	84	1796	0.387	ppbv #	75
26) Hexane	2.839	57	2294	0.200	ppbv #	30
29) Chloroform	2.865	83	2681	0.153	ppbv #	81
36) Benzene	3.677	78	9545	0.453	ppbv	92
44) 2,2,4-Trimethylpentane	4.671	57	4678m	0.130	ppbv	
52) Tetrachloroethene	8.241	164	379m	0.048	ppbv	
53) Toluene	6.962	91	9598	0.401	ppbv	93
59) m/p-Xylene	9.548	91	4899m	0.189	ppbv	

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

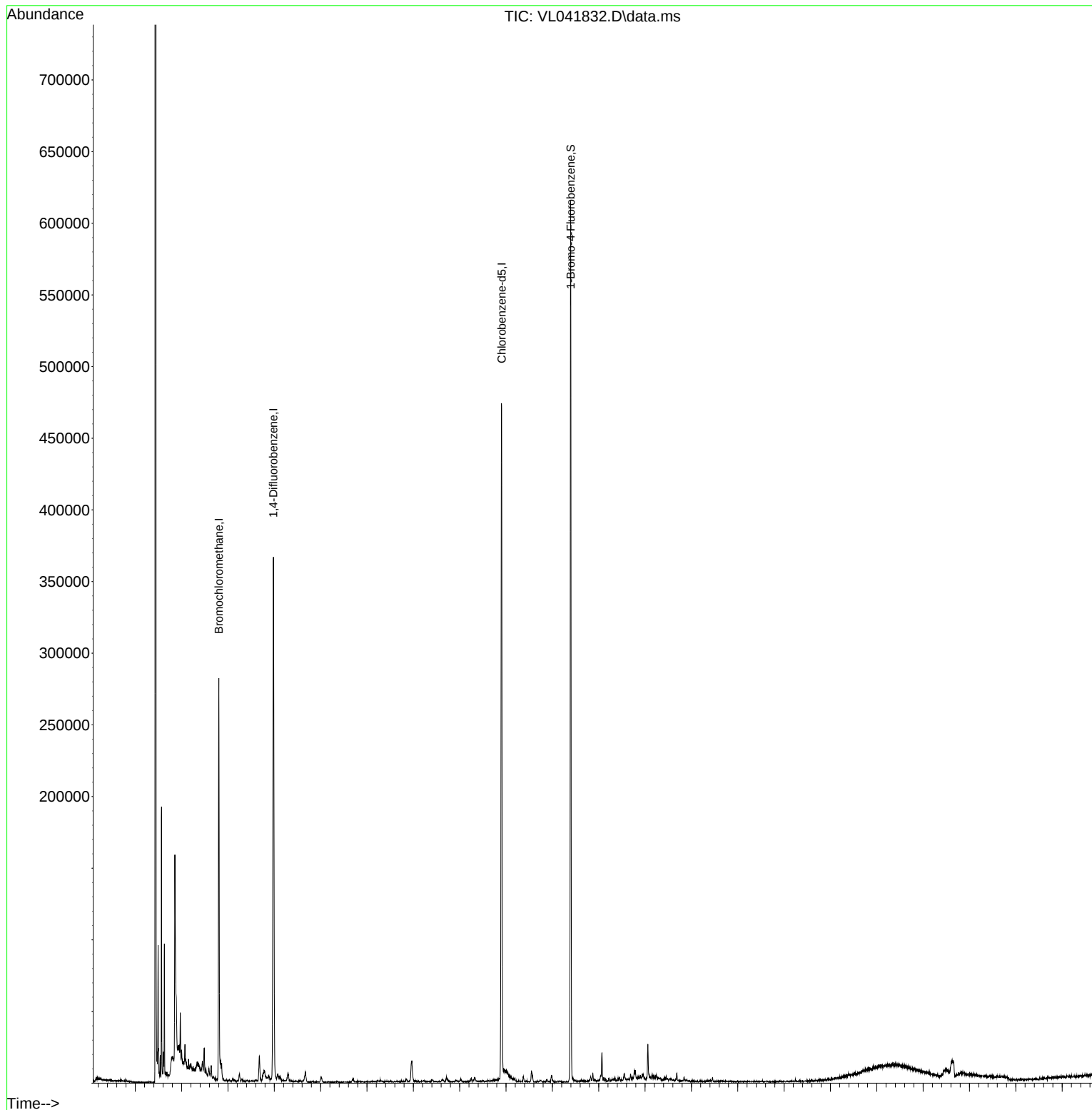
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
Data File : VL041832.D
Acq On : 03 Jan 2025 17:25
Operator : SY/MD
Sample : P5395-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

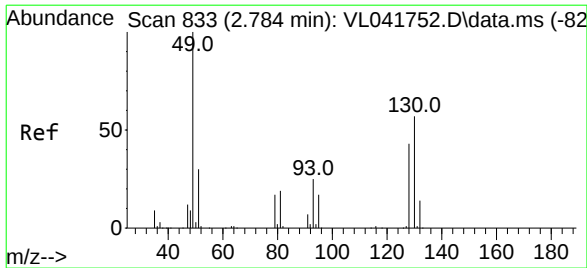
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Jan 03 17:47:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

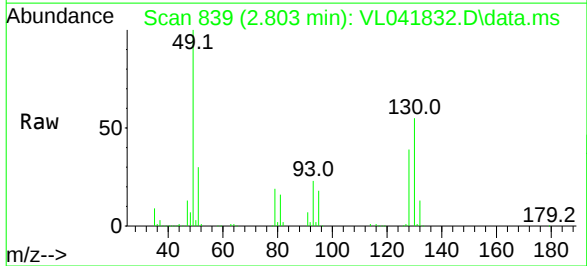
Reviewed By : Semsettin Yesilyurt 01/06/2025
Supervised By : Mahesh Dadoda 01/06/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 833
Delta R.T. 0.019 min
Lab File: VL041832.D
Acq: 03 Jan 2025 17:25

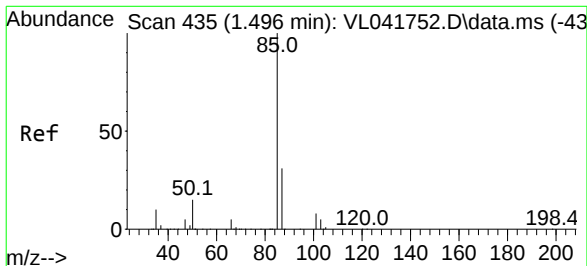
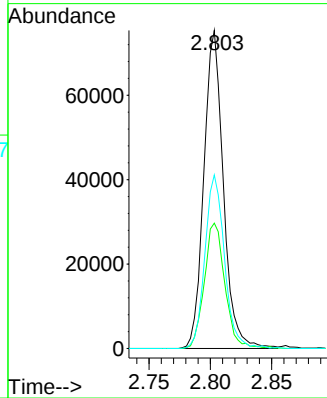
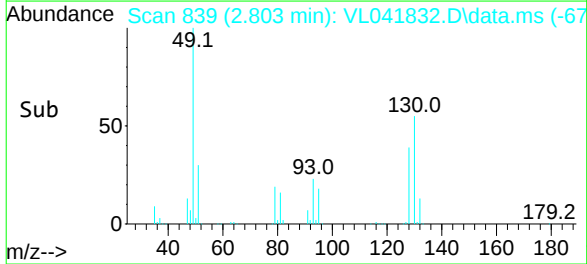
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 83560
Ion Ratio Lower Upper
49 100
128 41.6 21.6 64.6
130 54.7 28.3 85.0

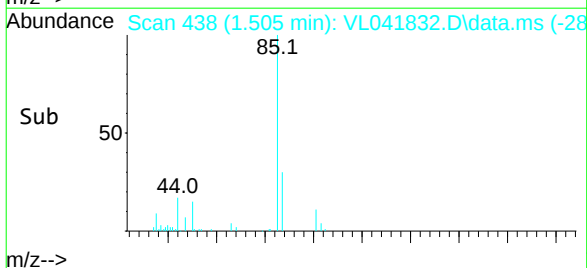
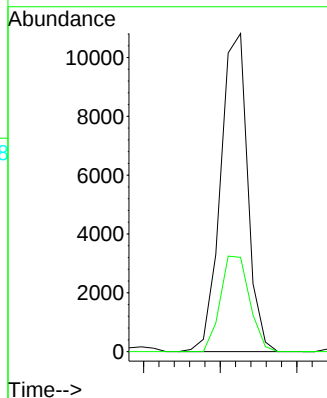
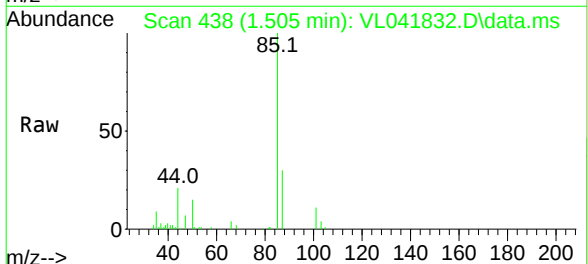
Manual Integrations
APPROVED

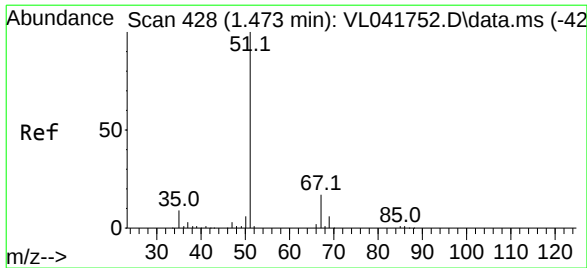
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#2
Dichlorodifluoromethane
Concen: 0.358 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.009 min
Lab File: VL041832.D
Acq: 03 Jan 2025 17:25

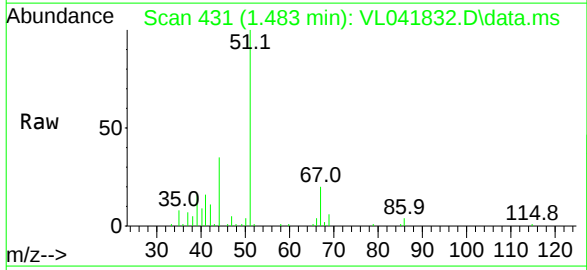
Tgt Ion: 85 Resp: 5323
Ion Ratio Lower Upper
85 100
87 29.6 24.5 36.7





#3
Chlorodifluoromethane
Concen: 0.277 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. 0.009 min
Lab File: VL041832.D
Acq: 03 Jan 2025 17:25

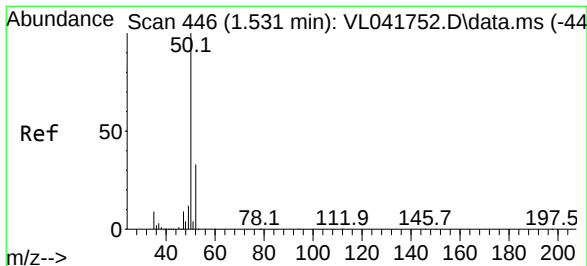
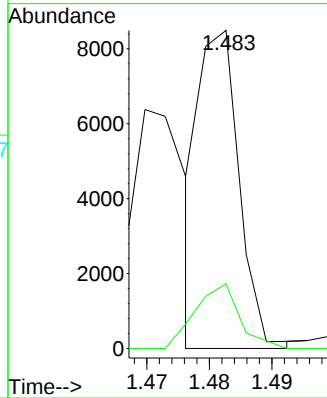
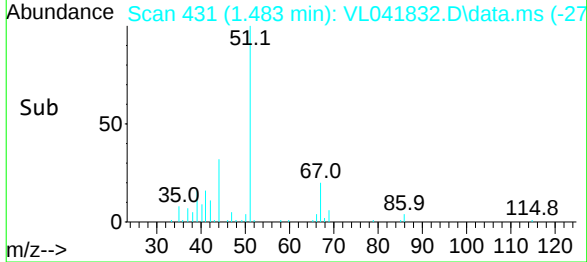
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 3774
Ion Ratio Lower Upper
51 100
67 2.2 15.0 22.4#

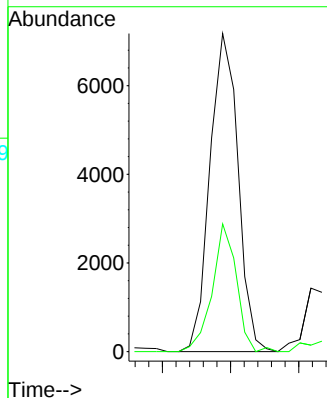
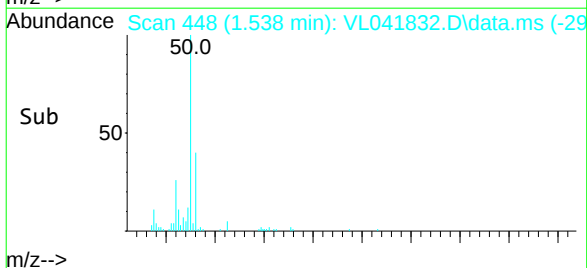
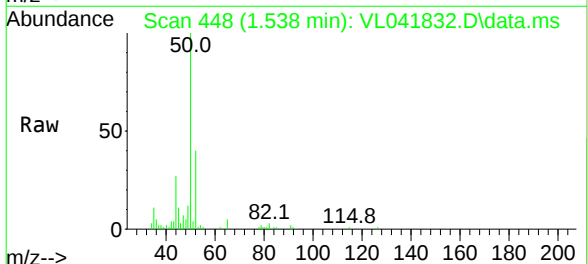
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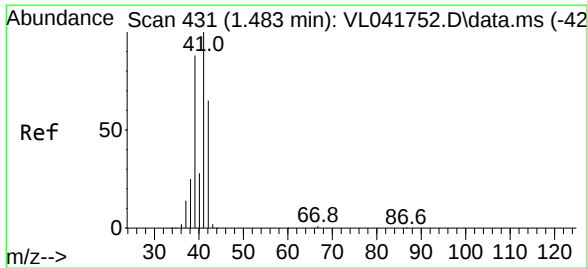
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#4
Chloromethane
Concen: 0.707 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL041832.D
Acq: 03 Jan 2025 17:25

Tgt Ion: 50 Resp: 4114
Ion Ratio Lower Upper
50 100
52 40.2 26.2 39.2#





#9

Propene

Concen: 1.549 ppbv

RT: 1.492 min Scan# 431

Delta R.T. 0.009 min

Lab File: VL041832.D

Acq: 03 Jan 2025 17:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 9149

Ion Ratio Lower Upper

41 100

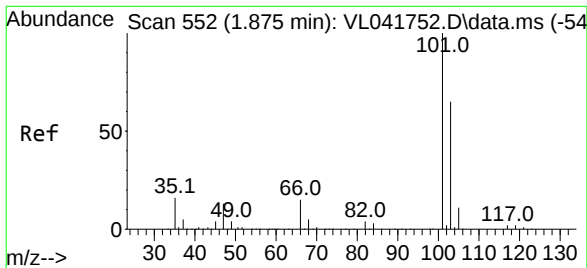
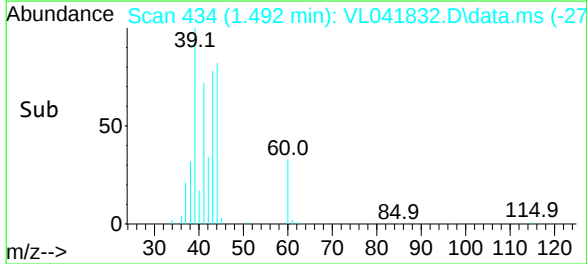
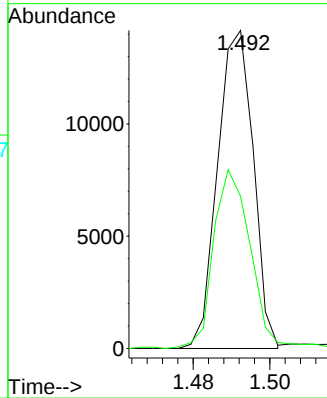
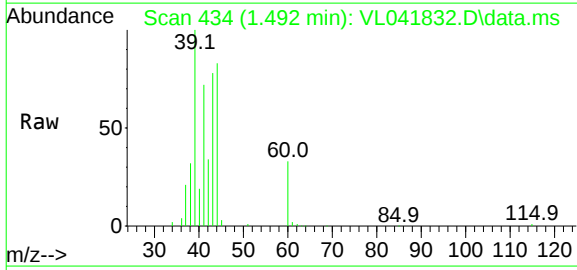
42 58.7 52.4 78.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/06/2025

Supervised By :Mahesh Dadoda 01/06/2025



#11

Trichlorofluoromethane

Concen: 0.200 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.013 min

Lab File: VL041832.D

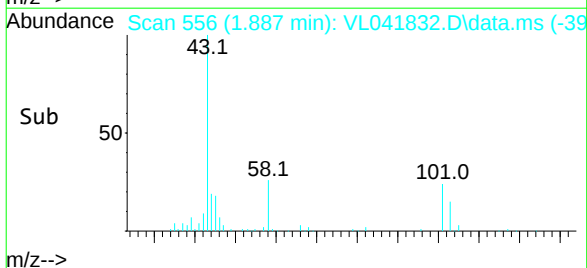
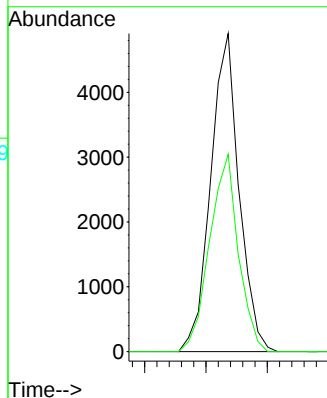
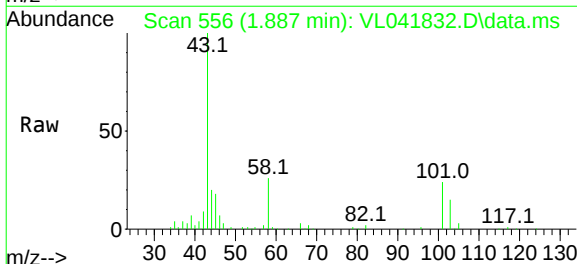
Acq: 03 Jan 2025 17:25

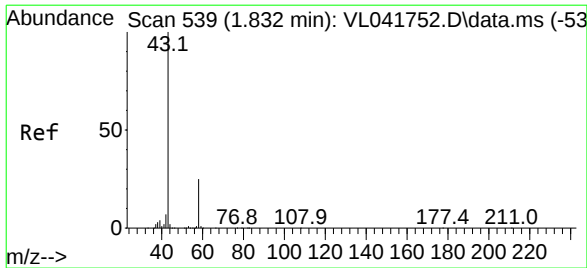
Tgt Ion:101 Resp: 3155

Ion Ratio Lower Upper

101 100

103 62.0 51.8 77.8





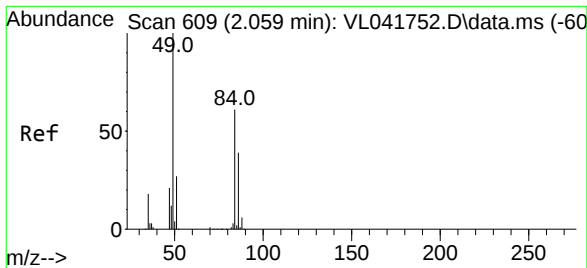
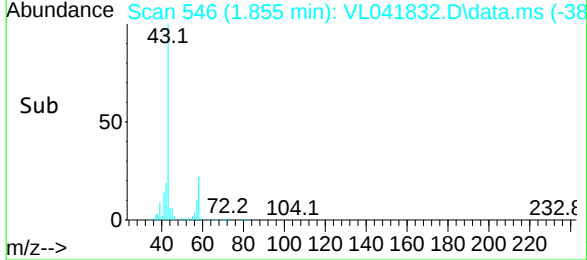
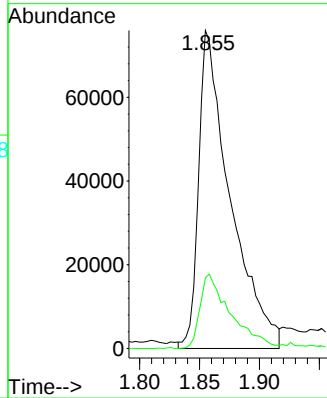
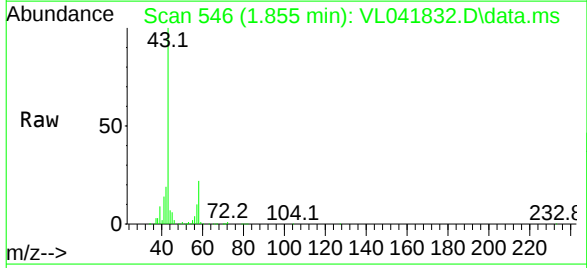
#15
Acetone
Concen: 8.558 ppbv m
RT: 1.855 min Scan# 541
Delta R.T. 0.022 min
Lab File: VL041832.D
Acq: 03 Jan 2025 17:25

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 139145
Ion Ratio Lower Upper
43 100
58 23.4 19.7 29.5

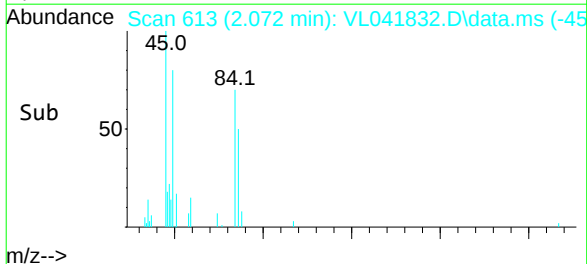
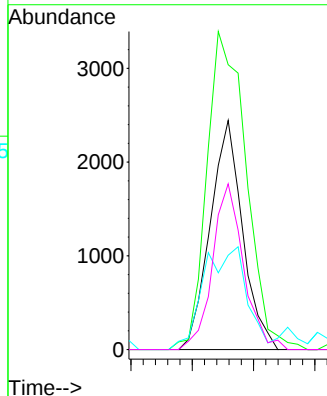
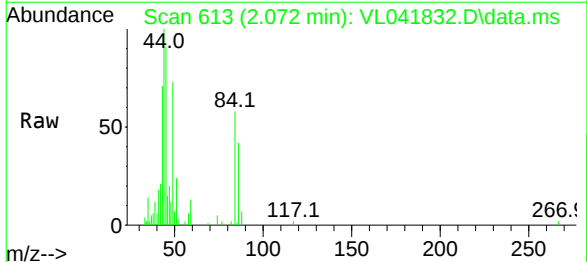
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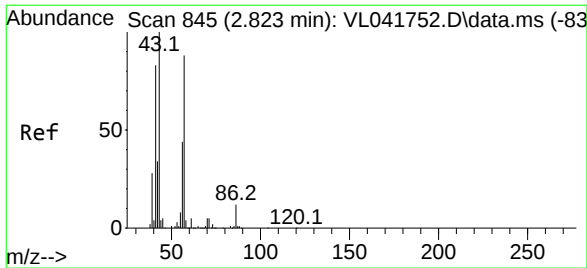
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#20
Methylene Chloride
Concen: 0.387 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.013 min
Lab File: VL041832.D
Acq: 03 Jan 2025 17:25

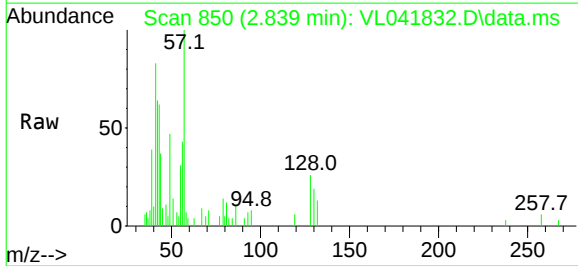
Tgt Ion: 84 Resp: 1796
Ion Ratio Lower Upper
84 100
49 121.0 132.6 198.8#
51 37.6 37.6 56.4#
86 72.3 51.4 77.0





#26
Hexane
Concen: 0.200 ppbv
RT: 2.839 min Scan# 851
Delta R.T. 0.016 min
Lab File: VL041832.D
Acq: 03 Jan 2025 17:25

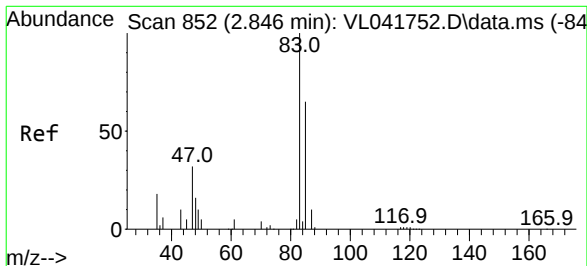
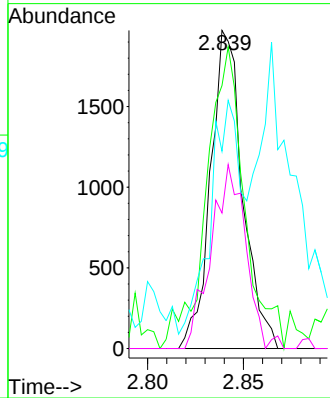
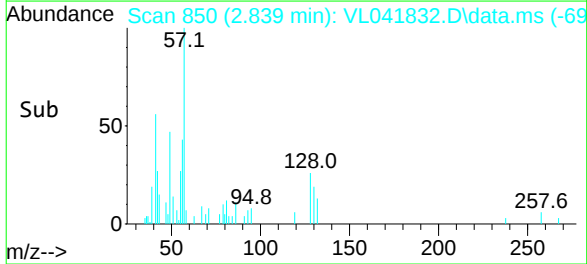
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 2294
Ion Ratio Lower Upper
57 100
41 116.8 79.6 119.4
43 80.0 211.0 316.6#
56 62.4 42.6 63.8

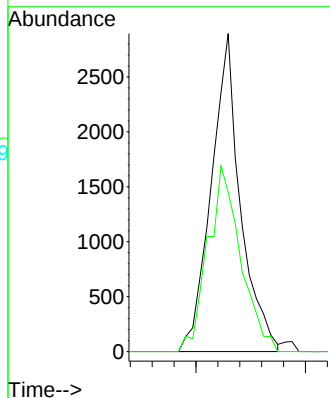
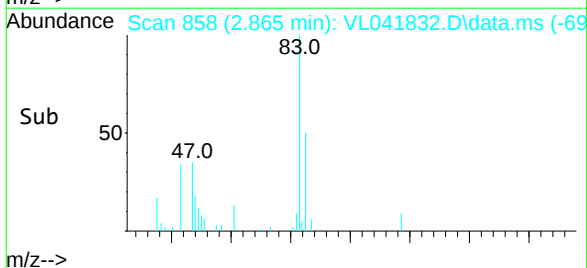
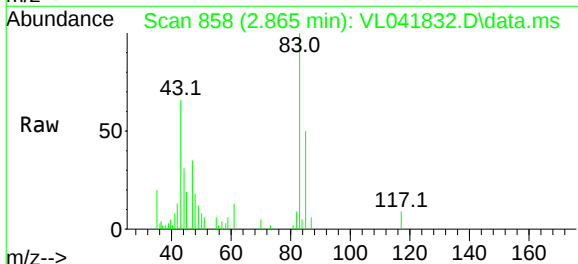
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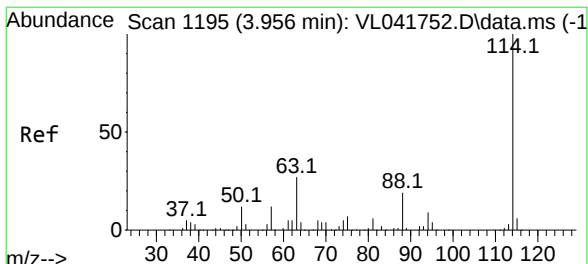
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#29
Chloroform
Concen: 0.153 ppbv
RT: 2.865 min Scan# 858
Delta R.T. 0.019 min
Lab File: VL041832.D
Acq: 03 Jan 2025 17:25

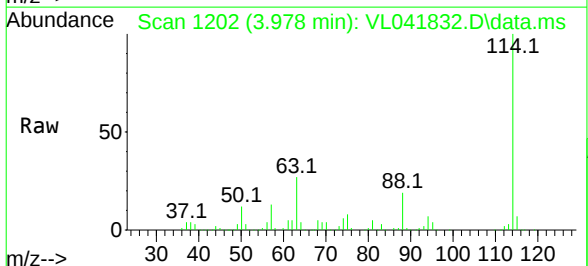
Tgt Ion: 83 Resp: 2681
Ion Ratio Lower Upper
83 100
85 50.0 51.8 77.6#





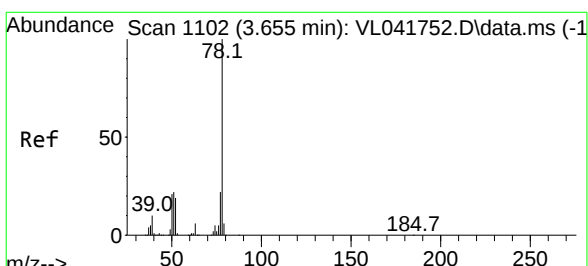
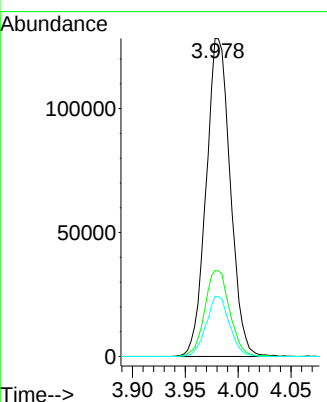
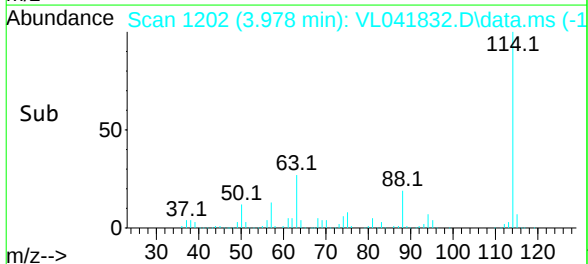
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.978 min Scan# 1202
 Delta R.T. 0.022 min
 Lab File: VL041832.D
 Acq: 03 Jan 2025 17:25

Instrument : MSVOA_L
 ClientSampleId : IA1



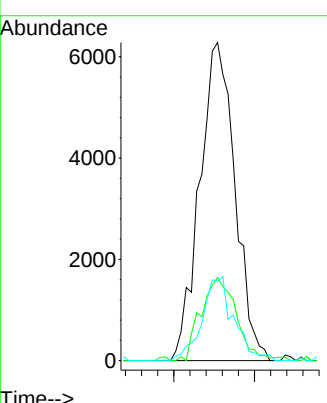
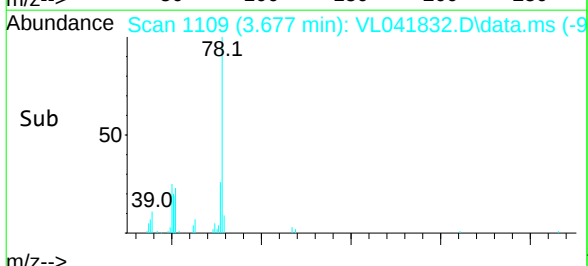
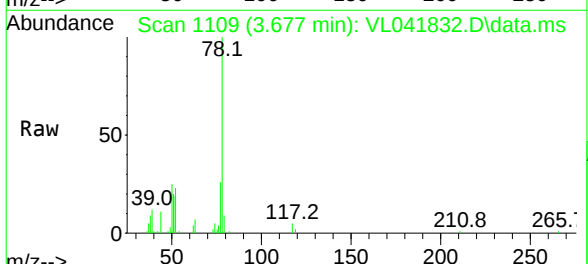
Tgt Ion:	114	Resp:	203898
Ion Ratio	Lower	Upper	
114	100		
63	27.9	21.8	32.8
88	18.2	14.8	22.2

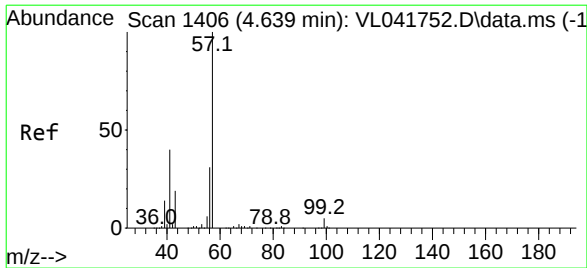
Manual Integrations
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 Reviewed By :Semsettin Yesilyurt 01/06/2025
 Supervised By :Mahesh Dadoda 01/06/2025



#36
 Benzene
 Concen: 0.453 ppbv
 RT: 3.677 min Scan# 1109
 Delta R.T. 0.022 min
 Lab File: VL041832.D
 Acq: 03 Jan 2025 17:25

Tgt Ion:	78	Resp:	9545
Ion Ratio	Lower	Upper	
78	100		
77	26.1	17.8	26.6
50	25.0	17.2	25.8





#44

2,2,4-Trimethylpentane

Concen: 0.130 ppbv m

RT: 4.671 min Scan# 14

Delta R.T. 0.032 min

Lab File: VL041832.D

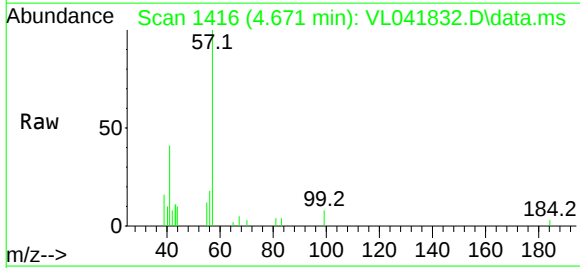
Acq: 03 Jan 2025 17:25

Instrument :

MSVOA_L

ClientSampleId :

IA1



Tgt Ion: 57 Resp: 4678

Ion Ratio Lower Upper

57 100

41 62.9 30.7 46.1

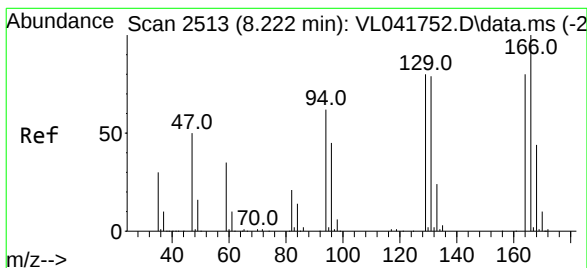
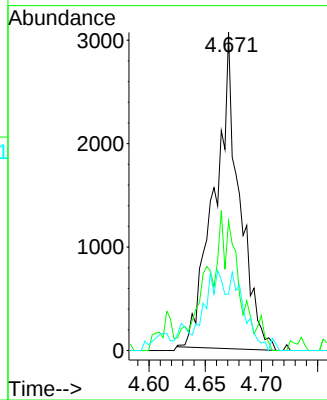
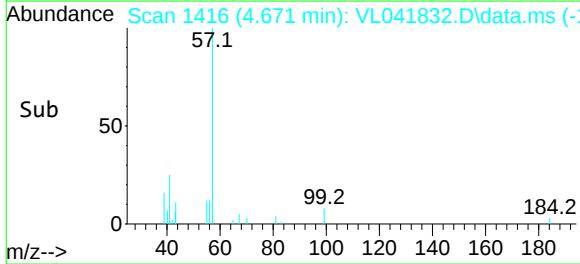
56 44.7 25.4 38.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/06/2025

Supervised By :Mahesh Dadoda 01/06/2025



#52

Tetrachloroethene

Concen: 0.048 ppbv m

RT: 8.241 min Scan# 2519

Delta R.T. 0.019 min

Lab File: VL041832.D

Acq: 03 Jan 2025 17:25

Tgt Ion:164 Resp: 379

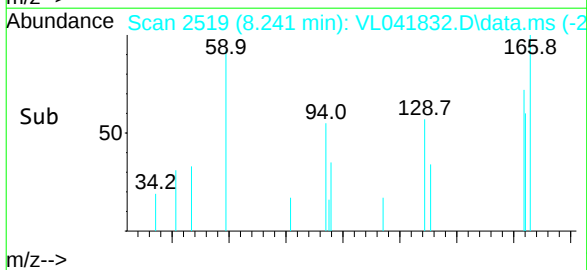
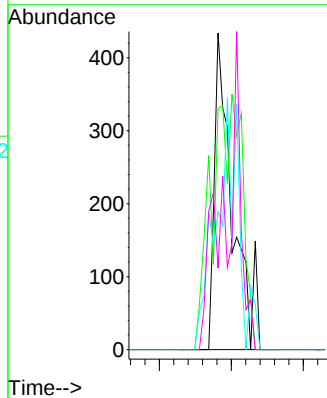
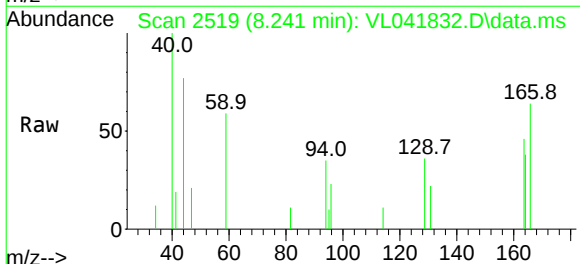
Ion Ratio Lower Upper

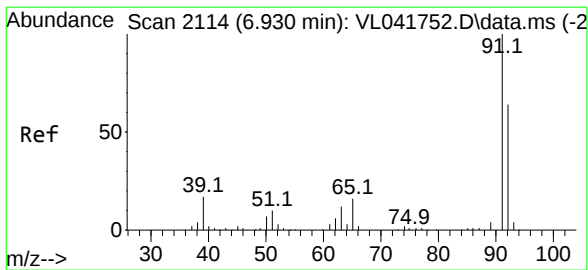
164 100

166 139.8 99.8 149.6

129 80.1 79.6 119.4

131 47.5 78.6 117.8





#53

Toluene

Concen: 0.401 ppbv

RT: 6.962 min Scan# 2114

Delta R.T. 0.032 min

Lab File: VL041832.D

Acq: 03 Jan 2025 17:25

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 9598

Ion Ratio Lower Upper

91 100

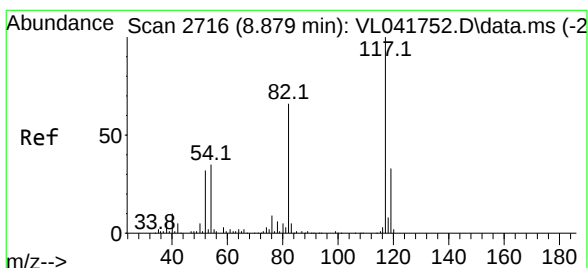
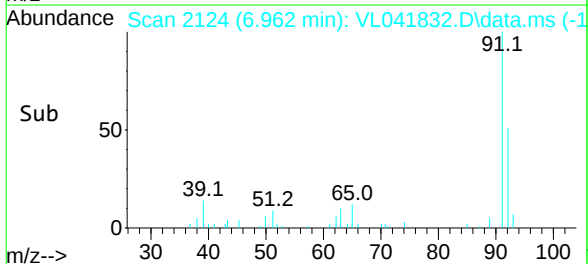
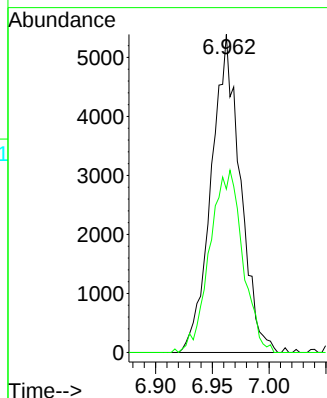
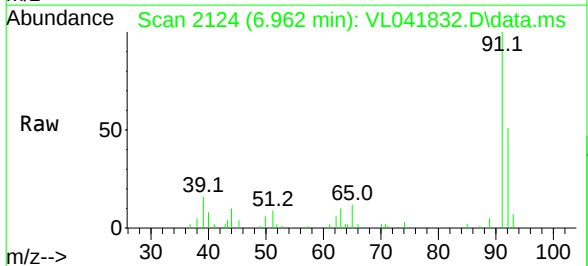
92 64.9 47.9 71.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 01/06/2025

Supervised By :Mahesh Dadoda 01/06/2025



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.904 min Scan# 2724

Delta R.T. 0.026 min

Lab File: VL041832.D

Acq: 03 Jan 2025 17:25

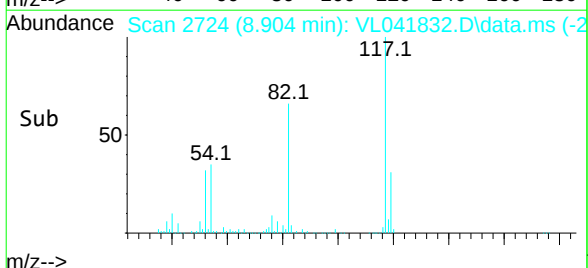
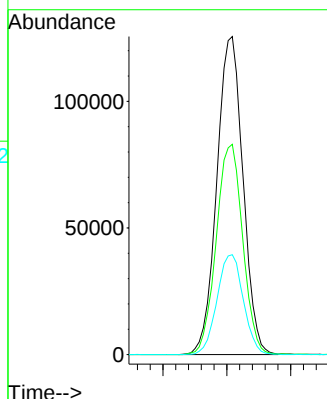
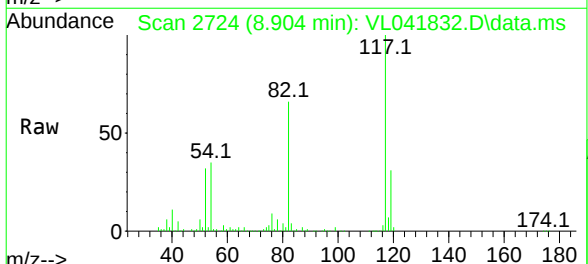
Tgt Ion:117 Resp: 178759

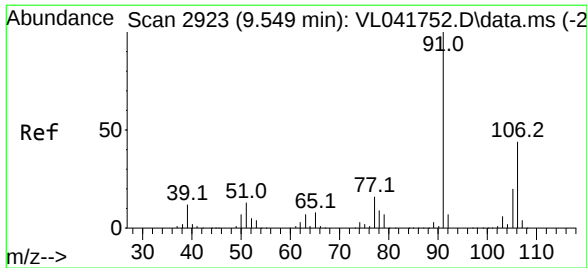
Ion Ratio Lower Upper

117 100

82 67.0 53.8 80.8

119 31.6 26.7 40.1





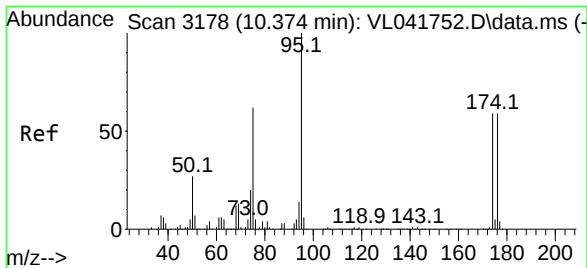
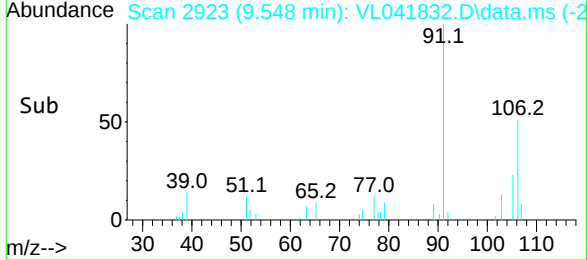
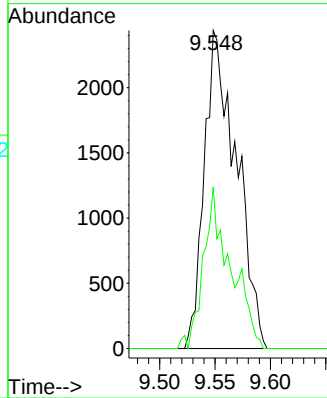
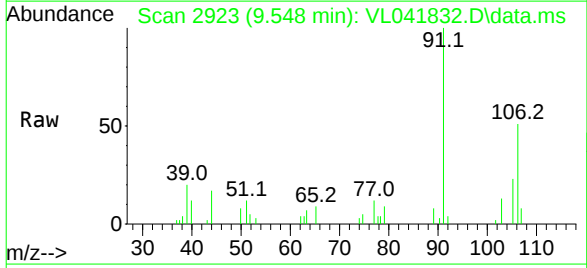
#59
m/p-Xylene
Concen: 0.189 ppbv m
RT: 9.548 min Scan# 2923
Delta R.T. -0.000 min
Lab File: VL041832.D
Acq: 03 Jan 2025 17:25

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 4899
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

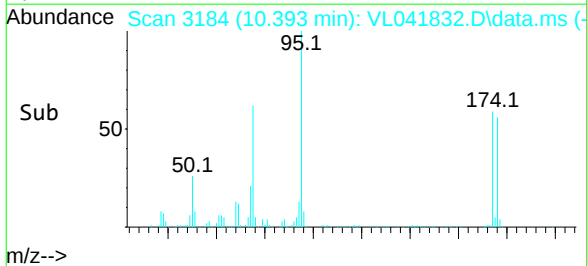
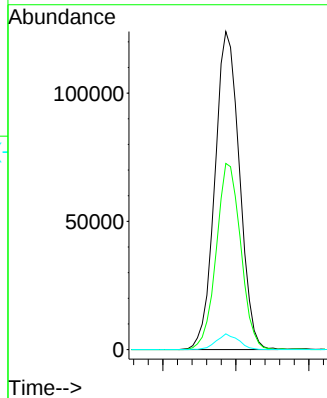
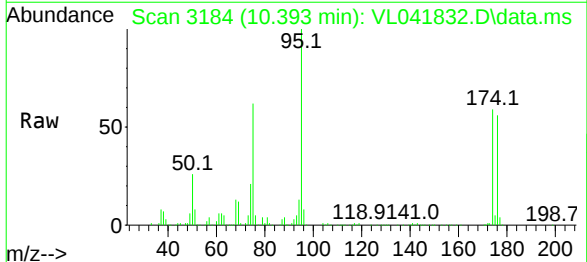
Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.742 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.019 min
Lab File: VL041832.D
Acq: 03 Jan 2025 17:25

Tgt Ion: 95 Resp: 145121
Ion Ratio Lower Upper
95 100
174 58.3 47.6 71.4
175 4.5 3.7 5.5



Report of Analysis

Client:	GFE LLC	Date Collected:	12/27/24
Project:	75-02 51st Avenue Elmhurst, NY	Date Received:	12/27/24
Client Sample ID:	IA2	SDG No.:	P5395
Lab Sample ID:	P5395-03	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041833.D	1		01/03/25 18:00	VL010325

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
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	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
540-84-1	2,2,4-Trimethylpentane	0.13	0.61	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.44	1.41	J	0.29	1.60	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.38	1.43	J	0.41	1.88	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.040	0.27		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
110-54-3	Hexane	0.18	0.63	J	0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			65 - 135	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	86400		2.8			
540-36-3	1,4-Difluorobenzene	212000		3.978			
3114-55-4	Chlorobenzene-d5	180000		8.901			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041833.D
 Acq On : 03 Jan 2025 18:00
 Operator : SY/MD
 Sample : P5395-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025
 Supervised By :Mahesh Dadoda 01/06/2025

Quant Time: Jan 03 18:55:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	86367	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	211807	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.901	117	179558	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	142391	9.516	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.200%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	4946	0.322	ppbv	95
3) Chlorodifluoromethane	1.479	51	4386m	0.311	ppbv	
4) Chloromethane	1.538	50	2875	0.478	ppbv	93
9) Propene	1.492	41	9596	1.572	ppbv	92
11) Trichlorofluoromethane	1.884	101	3123	0.191	ppbv	99
15) Acetone	1.858	43	149801	8.914	ppbv	97
20) Methylene Chloride	2.068	84	2150	0.449	ppbv #	89
26) Hexane	2.836	57	2132	0.180	ppbv #	66
29) Chloroform	2.861	83	5042	0.279	ppbv	91
36) Benzene	3.674	78	9722	0.444	ppbv	98
44) 2,2,4-Trimethylpentane	4.664	57	4889m	0.131	ppbv	
52) Tetrachloroethene	8.241	164	295m	0.036	ppbv	
53) Toluene	6.959	91	9344m	0.376	ppbv	
59) m/p-Xylene	9.552	91	4902m	0.189	ppbv	

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

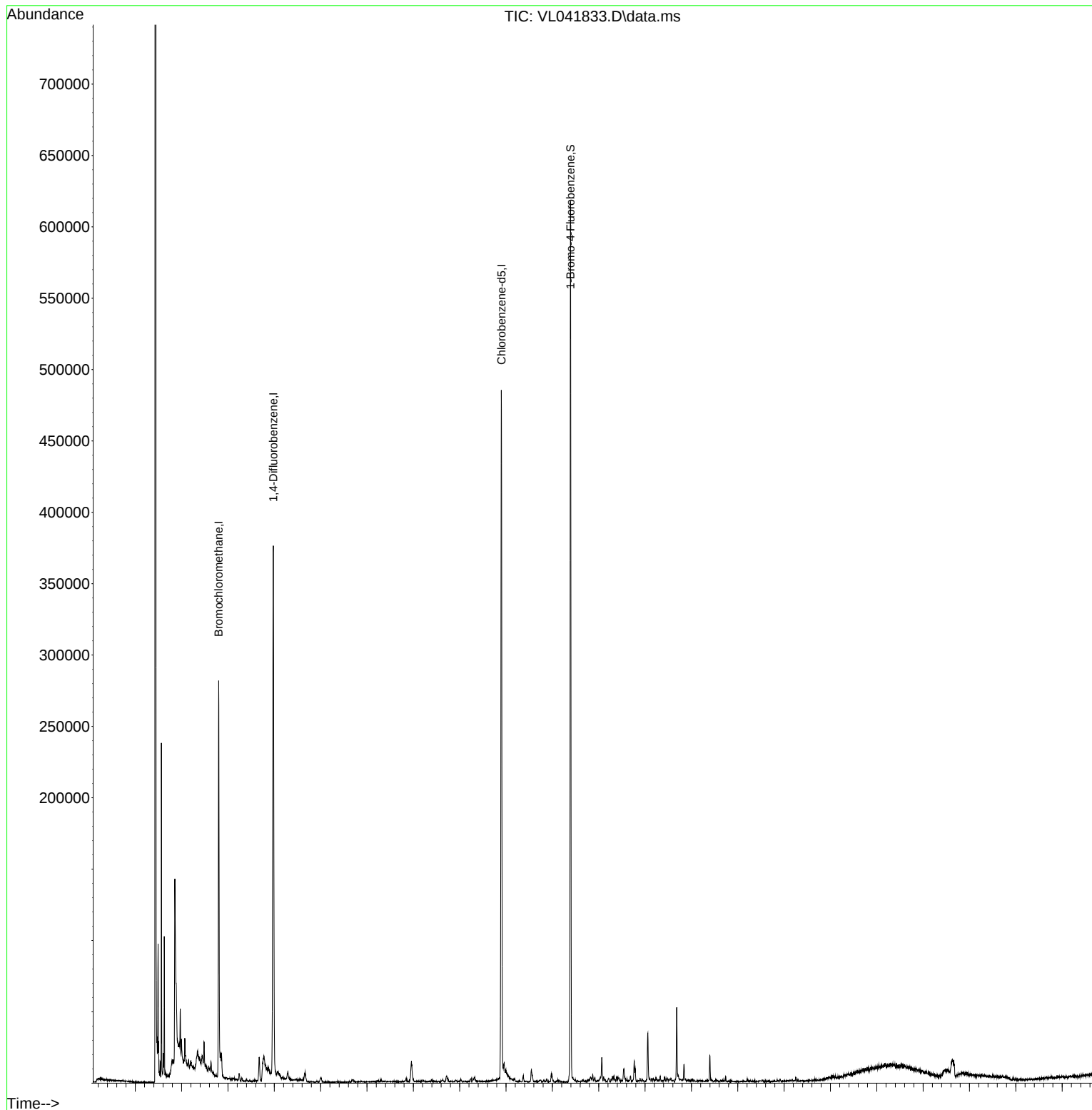
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
Data File : VL041833.D
Acq On : 03 Jan 2025 18:00
Operator : SY/MD
Sample : P5395-03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

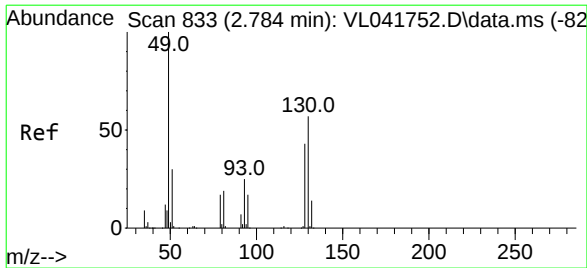
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Jan 03 18:55:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/06/2025
Supervised By : Mahesh Dadoda 01/06/2025





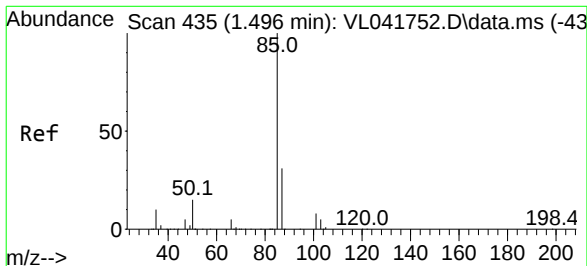
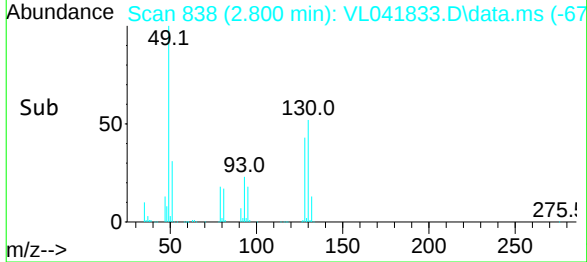
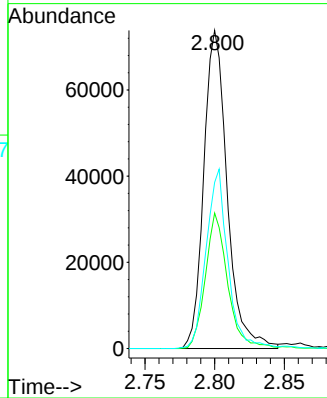
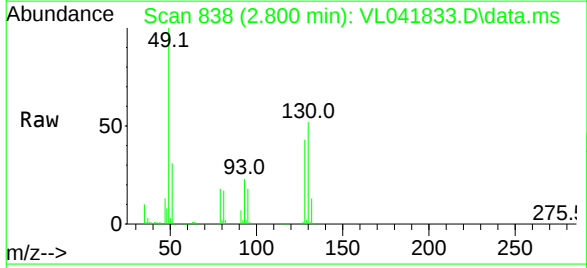
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 833
Delta R.T. 0.016 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion	Ratio	Lower	Upper
49	100		
128	40.8	21.6	64.6
130	53.2	28.3	85.0

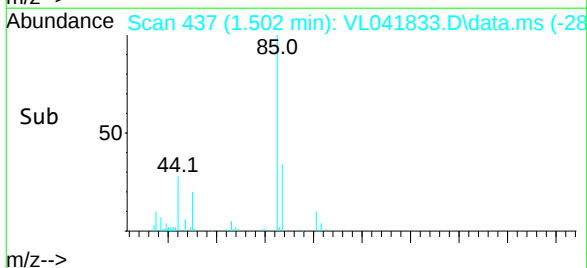
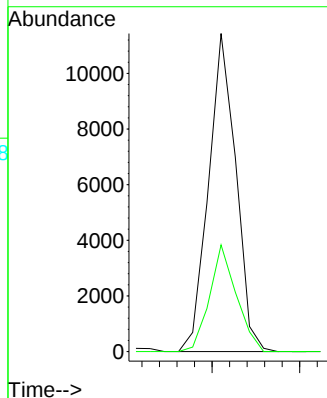
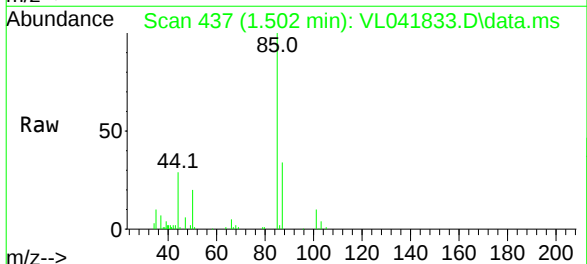
Manual Integrations
APPROVED

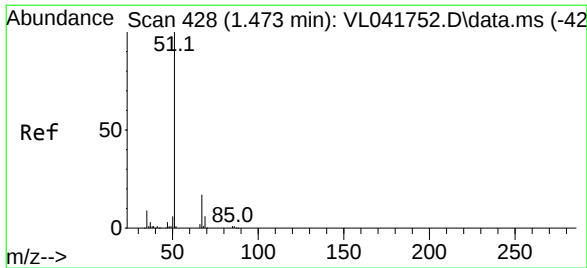
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#2
Dichlorodifluoromethane
Concen: 0.322 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.6	24.5	36.7





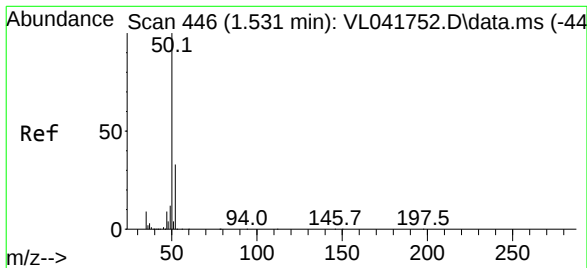
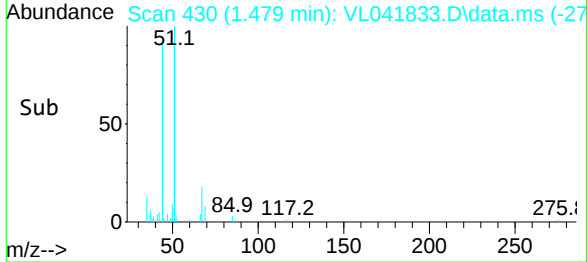
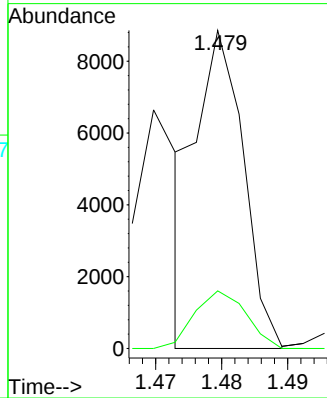
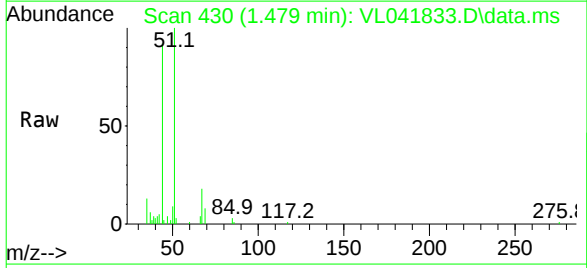
#3
Chlorodifluoromethane
Concen: 0.311 ppbv m
RT: 1.479 min Scan# 431
Delta R.T. 0.006 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 51 Resp: 4386
Ion Ratio Lower Upper
51 100
67 20.9 15.0 22.4

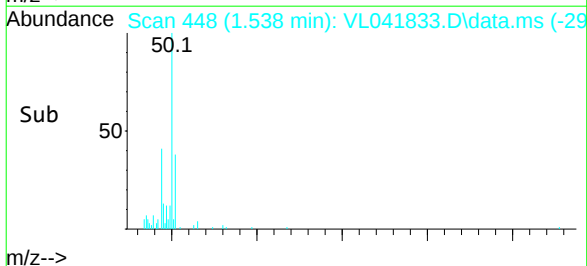
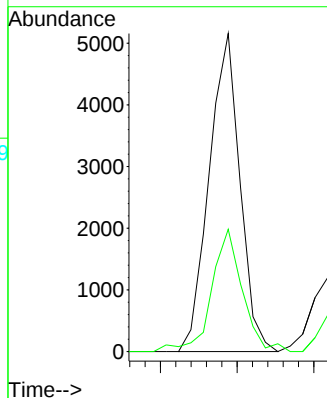
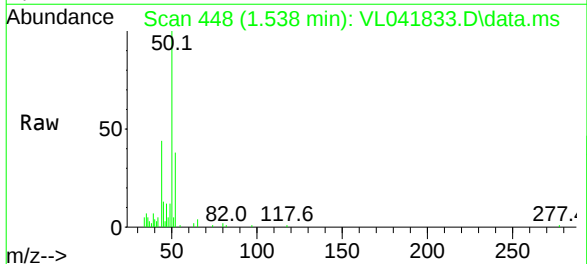
Manual Integrations
APPROVED

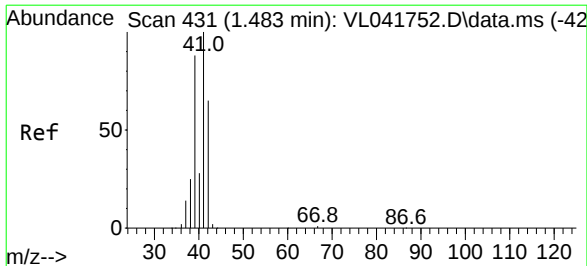
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#4
Chloromethane
Concen: 0.478 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

Tgt Ion: 50 Resp: 2875
Ion Ratio Lower Upper
50 100
52 36.9 26.2 39.2





#9

Propene

Concen: 1.572 ppbv

RT: 1.492 min Scan# 431

Delta R.T. 0.009 min

Lab File: VL041833.D

Acq: 03 Jan 2025 18:00

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 41 Resp: 9596

Ion Ratio Lower Upper

41 100

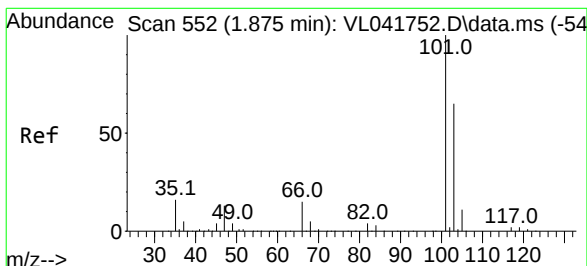
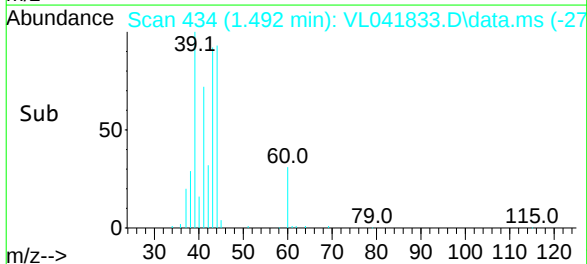
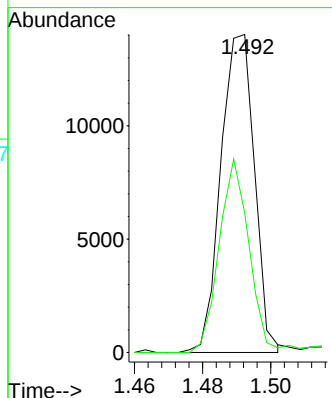
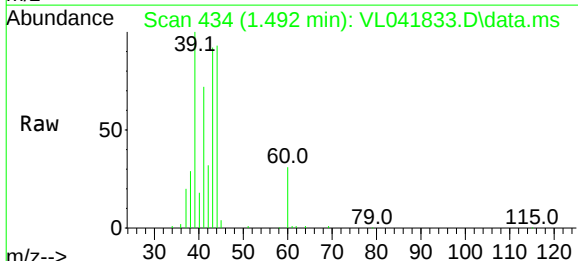
42 58.9 52.4 78.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025

Supervised By :Mahesh Dadoda 01/06/2025



#11

Trichlorofluoromethane

Concen: 0.191 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.009 min

Lab File: VL041833.D

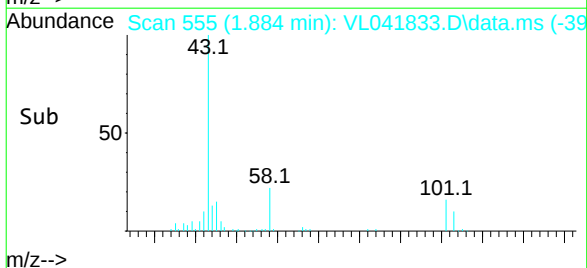
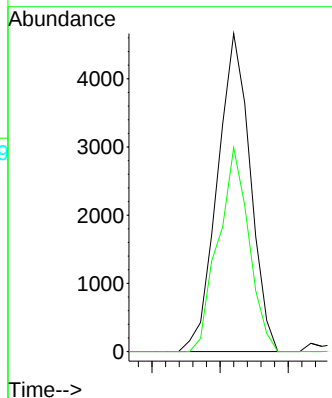
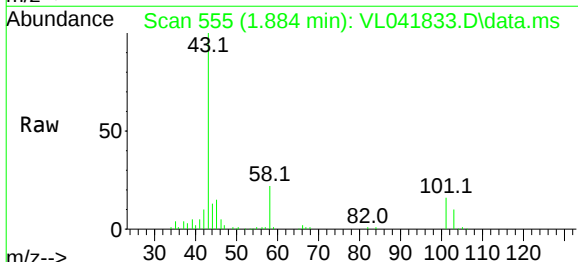
Acq: 03 Jan 2025 18:00

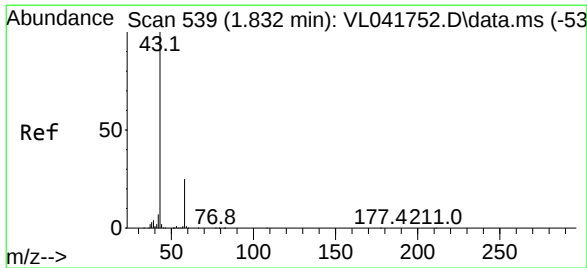
Tgt Ion:101 Resp: 3123

Ion Ratio Lower Upper

101 100

103 64.2 51.8 77.8





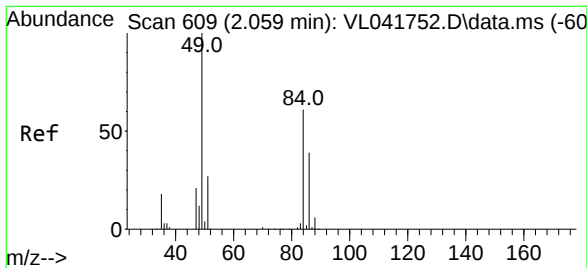
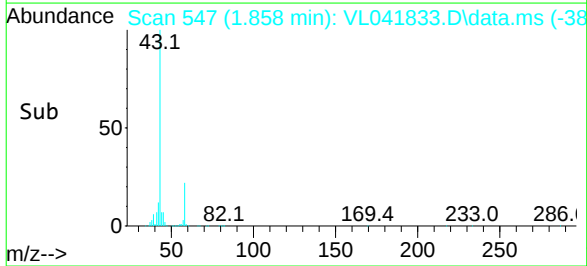
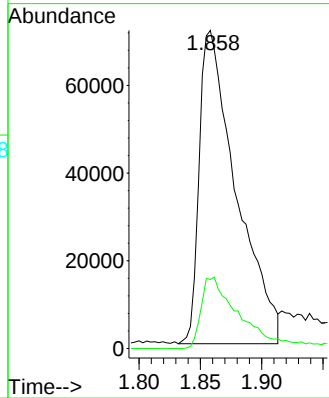
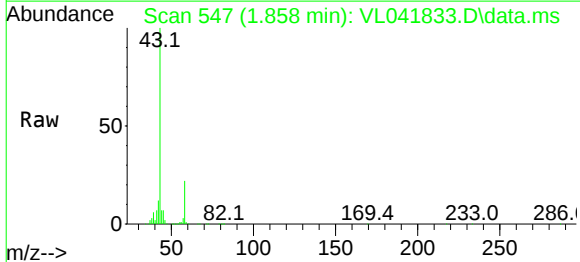
#15
Acetone
Concen: 8.914 ppbv
RT: 1.858 min Scan# 541
Delta R.T. 0.026 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 149801
Ion Ratio Lower Upper
43 100
58 26.0 19.7 29.5

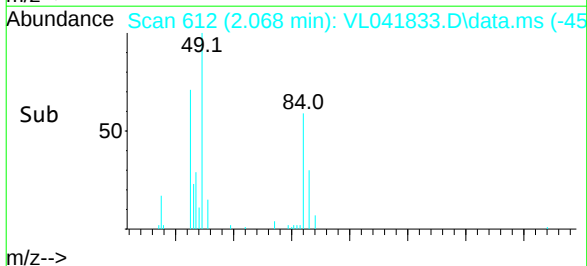
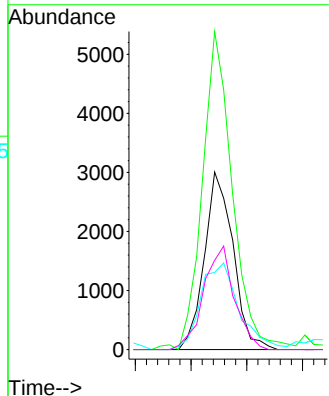
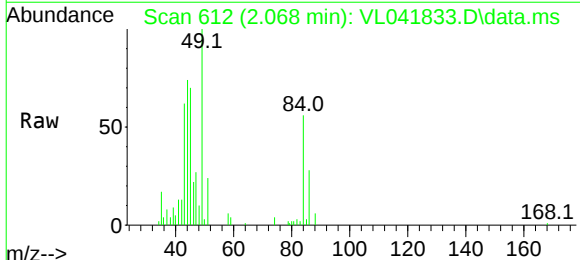
Manual Integrations
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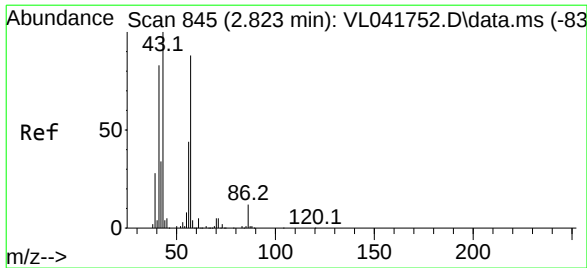
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#20
Methylene Chloride
Concen: 0.449 ppbv
RT: 2.068 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

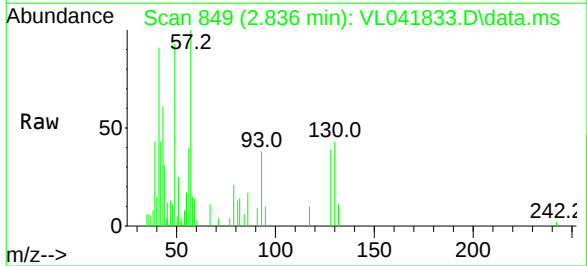
Tgt Ion: 84 Resp: 2150
Ion Ratio Lower Upper
84 100
49 179.2 132.6 198.8
51 41.6 37.6 56.4
86 50.3 51.4 77.0#





#26
Hexane
Concen: 0.180 ppbv
RT: 2.836 min Scan# 845
Delta R.T. 0.013 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

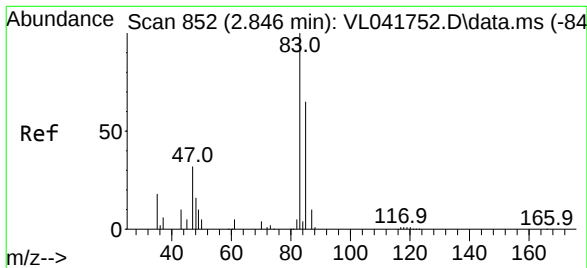
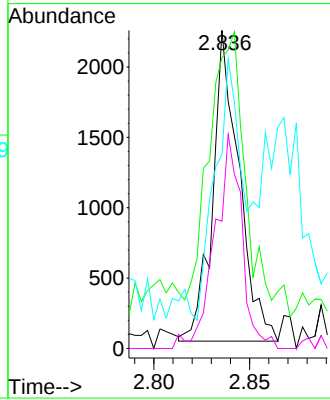
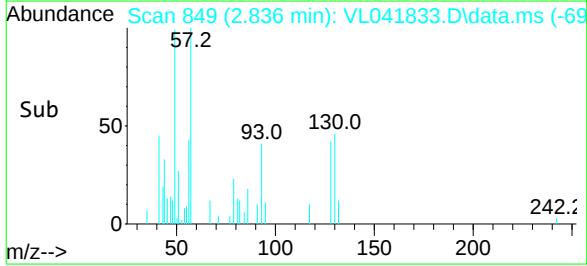
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 2132
Ion Ratio Lower Upper
57 100
41 150.0 79.6 119.4#
43 209.9 211.0 316.6#
56 69.6 42.6 63.8#

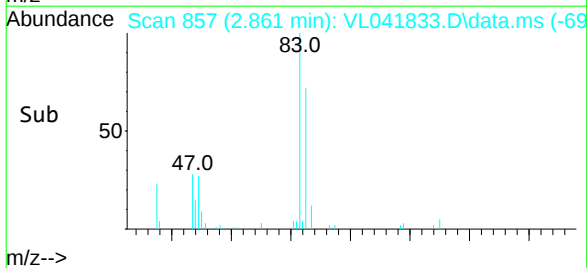
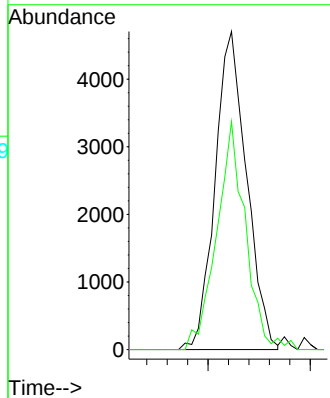
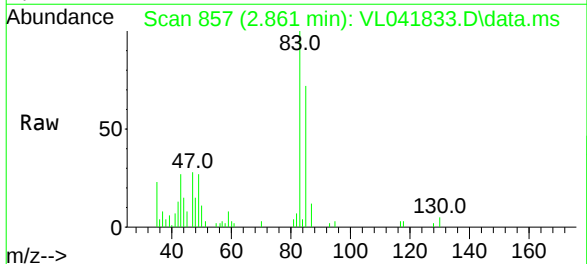
Manual Integrations
APPROVED

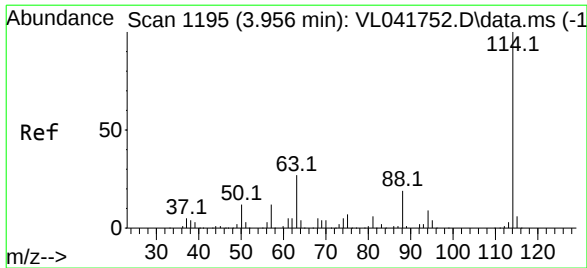
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#29
Chloroform
Concen: 0.279 ppbv
RT: 2.861 min Scan# 857
Delta R.T. 0.016 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

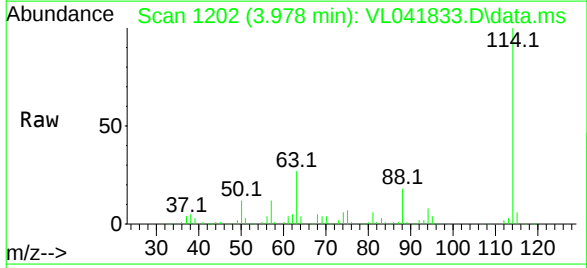
Tgt Ion: 83 Resp: 5042
Ion Ratio Lower Upper
83 100
85 71.7 51.8 77.6





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 12
Delta R.T. 0.022 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

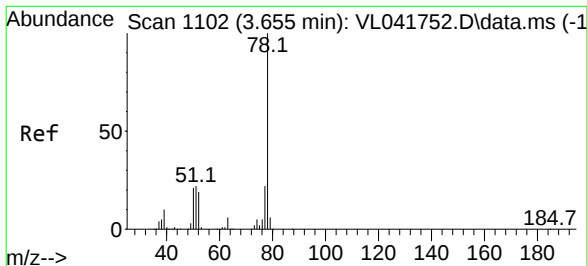
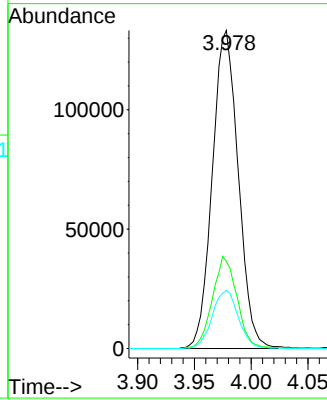
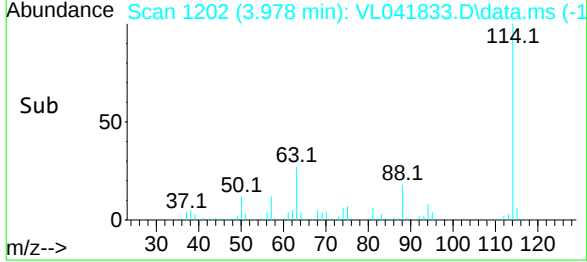
Instrument :
MSVOA_L
ClientSampleId :
IA2



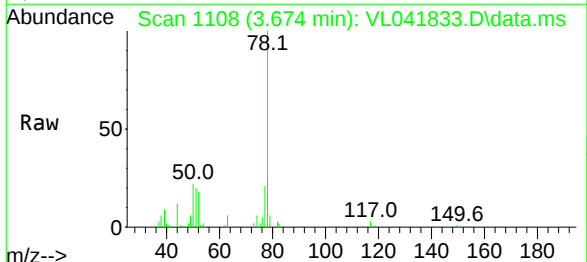
Tgt Ion: 114 Resp: 211807
Ion Ratio Lower Upper
114 100
63 27.5 21.8 32.8
88 18.4 14.8 22.2

Manual Integrations
APPROVED

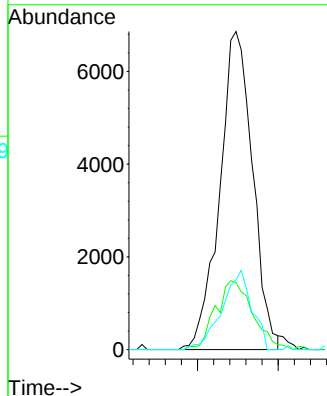
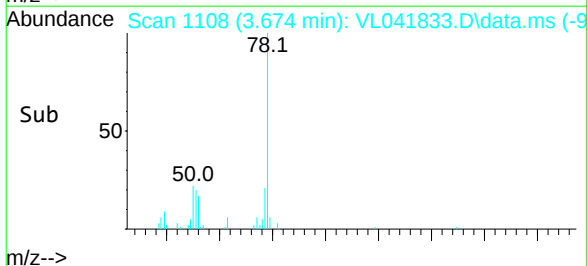
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025

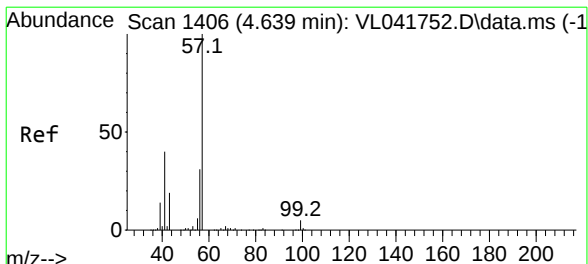


#36
Benzene
Concen: 0.444 ppbv
RT: 3.674 min Scan# 1108
Delta R.T. 0.019 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00



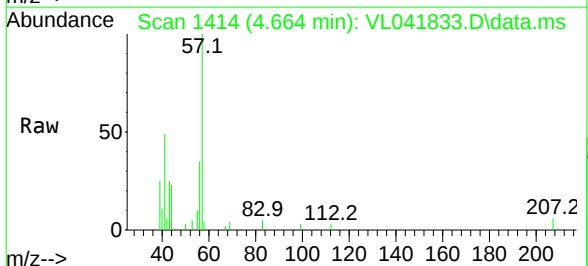
Tgt Ion: 78 Resp: 9722
Ion Ratio Lower Upper
78 100
77 21.1 17.8 26.6
50 21.9 17.2 25.8





#44
2,2,4-Trimethylpentane
Concen: 0.131 ppbv m
RT: 4.664 min Scan# 1414
Delta R.T. 0.026 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

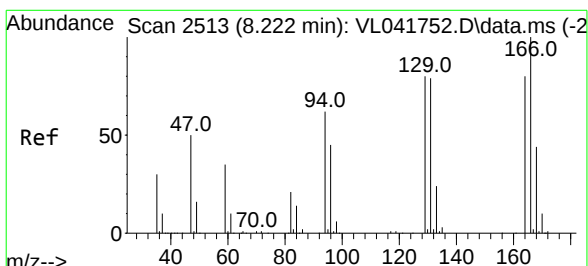
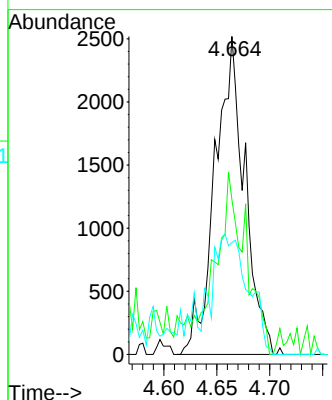
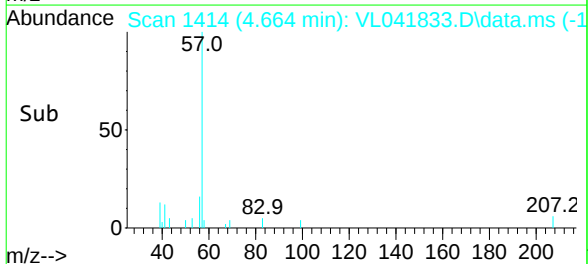
Instrument : MSVOA_L
ClientSampleId : IA2



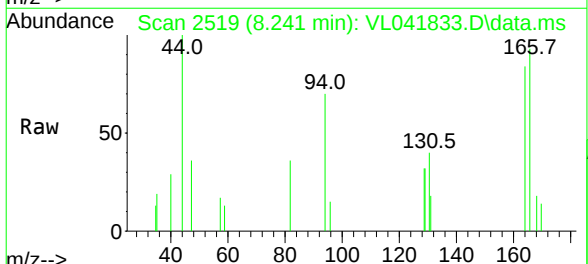
Tgt Ion:	57	Resp:	4889
Ion	Ratio	Lower	Upper
57	100		
41	54.0	30.7	46.1
56	52.1	25.4	38.0

Manual Integrations
APPROVED

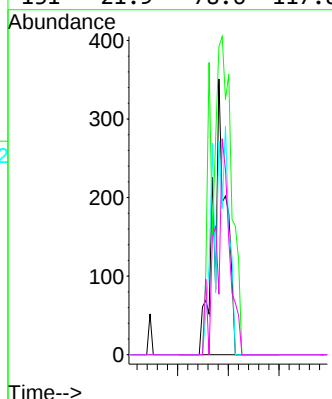
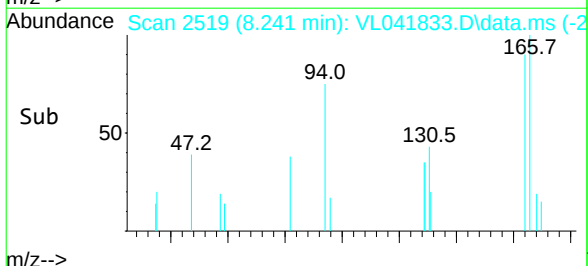
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025

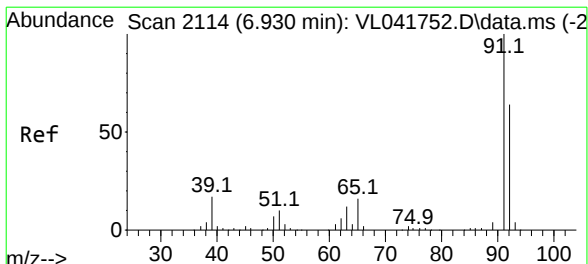


#52
Tetrachloroethene
Concen: 0.036 ppbv m
RT: 8.241 min Scan# 2519
Delta R.T. 0.019 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00



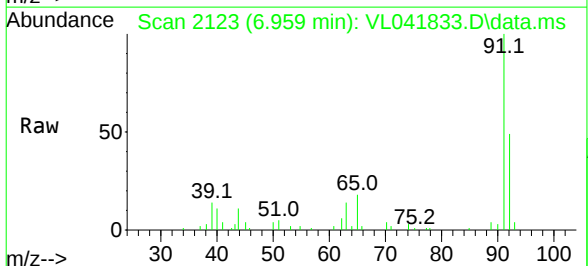
Tgt Ion:	164	Resp:	295
Ion	Ratio	Lower	Upper
164	100		
166	111.7	99.8	149.6
129	38.7	79.6	119.4
131	21.9	78.6	117.8





#53
Toluene
Concen: 0.376 ppbv m
RT: 6.959 min Scan# 2114
Delta R.T. 0.029 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

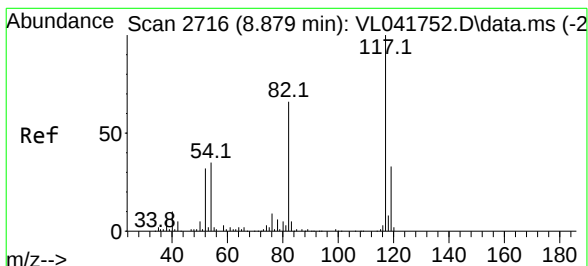
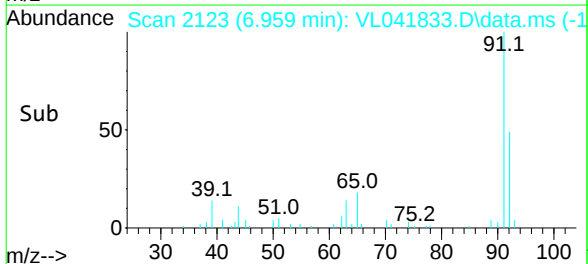
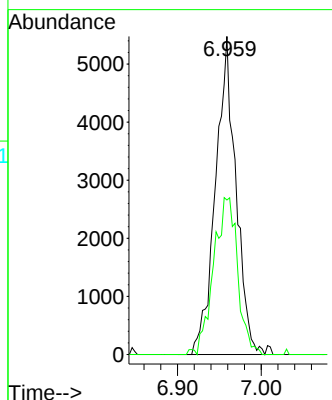
Instrument : MSVOA_L
ClientSampleId : IA2



Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.6	47.9	71.9

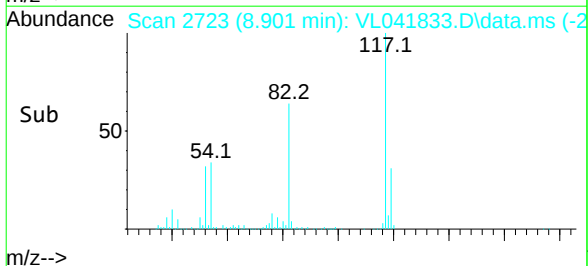
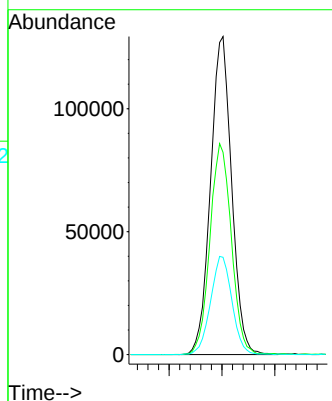
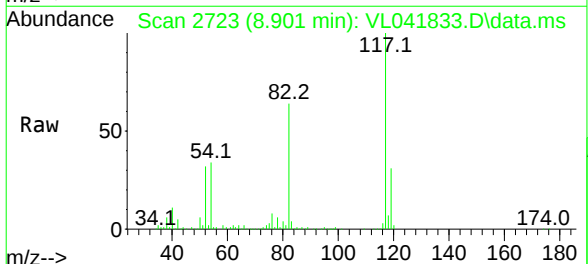
Manual Integrations
APPROVED

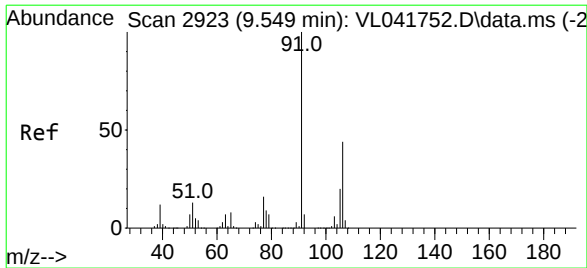
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.022 min
Lab File: VL041833.D
Acq: 03 Jan 2025 18:00

Tgt Ion	Ratio	Lower	Upper
117	100		
82	67.5	53.8	80.8
119	31.4	26.7	40.1





#59

m/p-Xylene

Concen: 0.189 ppbv m

RT: 9.552 min Scan# 29

Delta R.T. 0.003 min

Lab File: VL041833.D

Acq: 03 Jan 2025 18:00

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 91 Resp: 4902

Ion Ratio Lower Upper

91 100

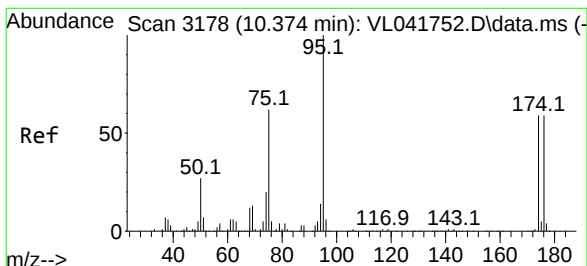
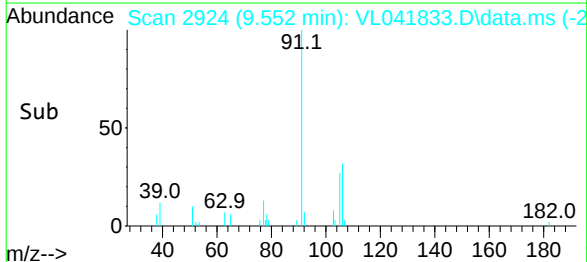
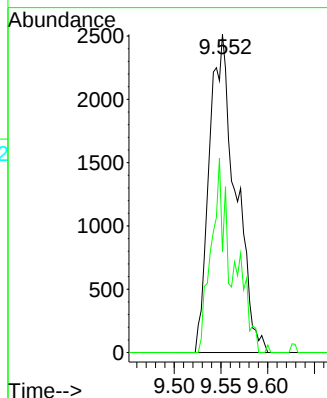
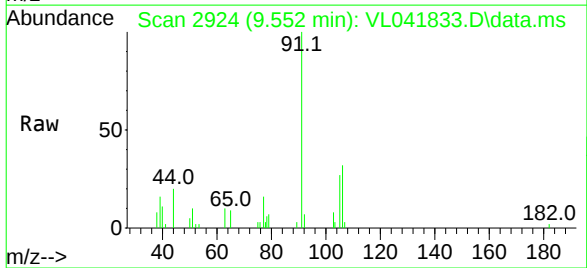
106 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025

Supervised By :Mahesh Dadoda 01/06/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.516 ppbv

RT: 10.390 min Scan# 3183

Delta R.T. 0.016 min

Lab File: VL041833.D

Acq: 03 Jan 2025 18:00

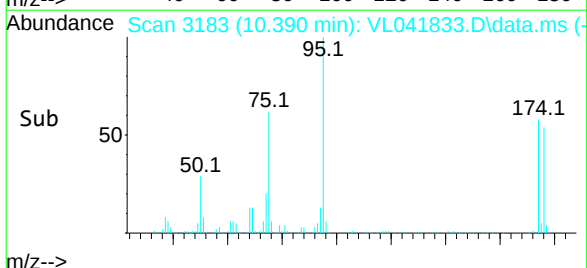
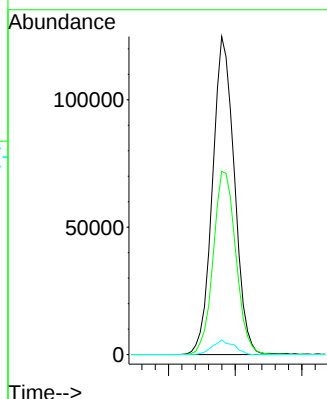
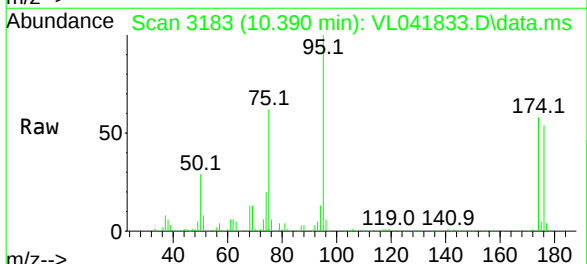
Tgt Ion: 95 Resp: 142391

Ion Ratio Lower Upper

95 100

174 59.8 47.6 71.4

175 4.5 3.7 5.5



Report of Analysis

Client:	GFE LLC	Date Collected:	12/27/24
Project:	75-02 51st Avenue Elmhurst, NY	Date Received:	12/27/24
Client Sample ID:	SV2	SDG No.:	P5395
Lab Sample ID:	P5395-04	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041831.D	4		01/03/25 16:50	VL010325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
142-82-5	Heptane	0.44	1.80	U	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	0.35	1.12	U	1.12	6.39	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
108-88-3	Toluene	1.90	7.16	J	1.66	7.54	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	1.20	8.14		0.41	0.81	ug/m3
100-41-4	Ethyl Benzene	0.48	2.08	U	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	1.20	5.21	J	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.60	2.61	J	2.08	8.69	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	U	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.80	3.93	J	1.52	9.83	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
110-54-3	Hexane	0.60	2.11	J	1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	84700		2.8			
540-36-3	1,4-Difluorobenzene	202000		3.978			
3114-55-4	Chlorobenzene-d5	182000		8.901			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041831.D
 Acq On : 03 Jan 2025 16:50
 Operator : SY/MD
 Sample : P5395-04 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/06/2025
 Supervised By : Mahesh Dadoda 01/06/2025

Quant Time: Jan 03 17:13:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	84721	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	202396	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.901	117	181750	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	160817	10.618	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 106.200%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	1618	0.107	ppbv	91
15) Acetone	1.855	43	22759	1.381	ppbv	96
20) Methylene Chloride	2.069	84	703	0.150	ppbv #	58
26) Hexane	2.839	57	1759	0.151	ppbv #	36
34) 2-Butanone	2.590	43	3027m	0.186	ppbv	
52) Tetrachloroethene	8.244	164	2424m	0.311	ppbv	
53) Toluene	6.959	91	11103m	0.468	ppbv	
58) Ethyl Benzene	9.377	91	2793	0.085	ppbv	99
59) m/p-Xylene	9.552	91	8030	0.305	ppbv #	100
60) o-Xylene	9.985	91	3967m	0.150	ppbv	
74) 1,2,4-Trimethylbenzene	11.549	105	5601m	0.202	ppbv	

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

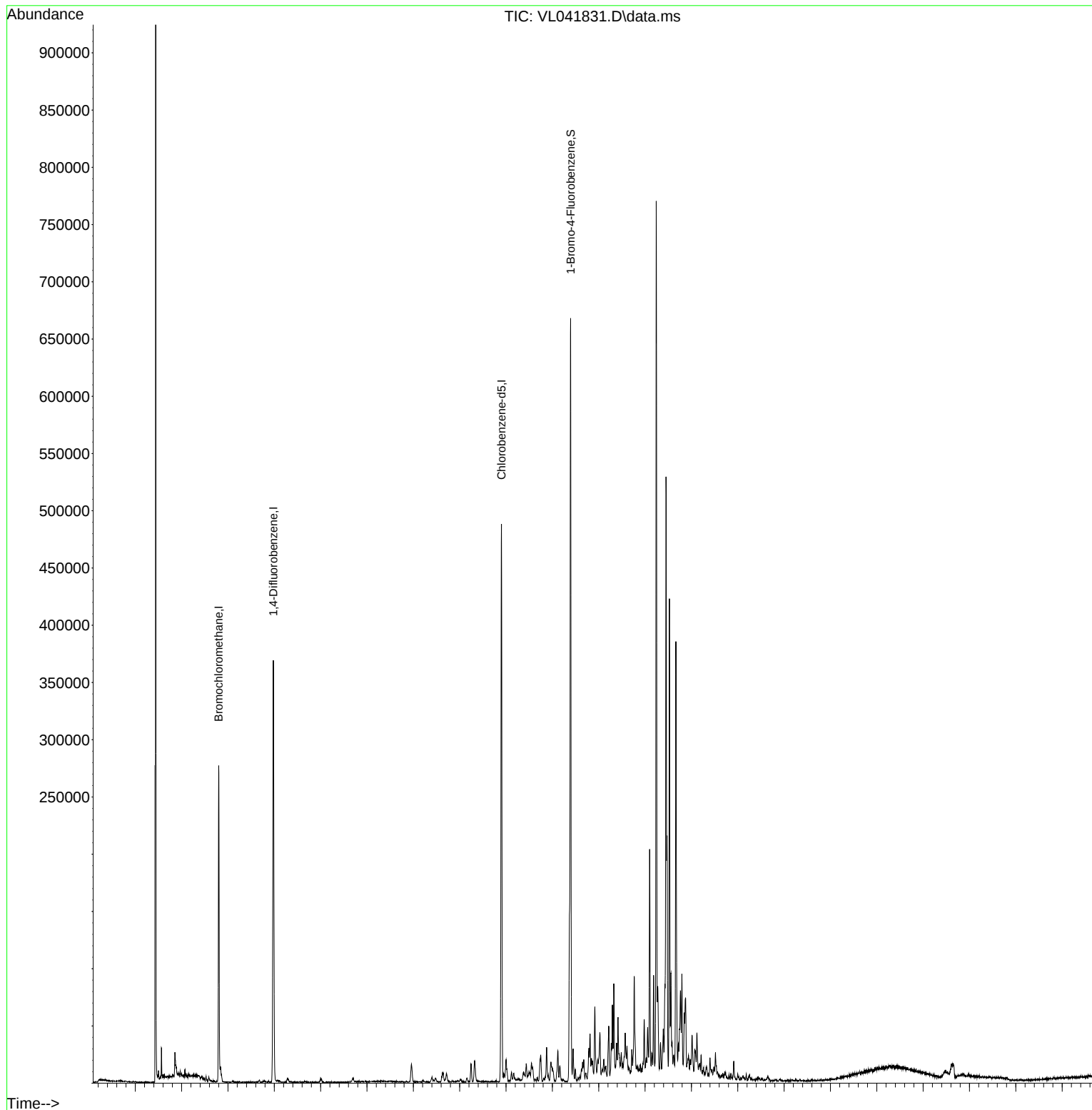
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
Data File : VL041831.D
Acq On : 03 Jan 2025 16:50
Operator : SY/MD
Sample : P5395-04 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

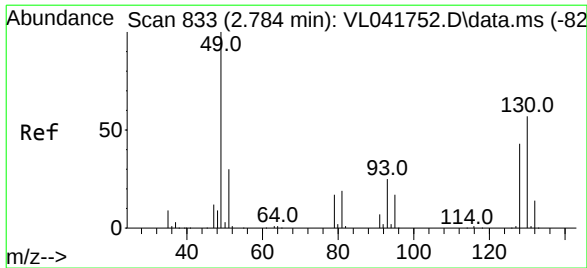
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Jan 03 17:13:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/06/2025
Supervised By : Mahesh Dadoda 01/06/2025





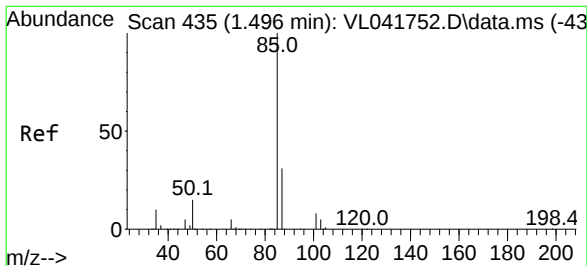
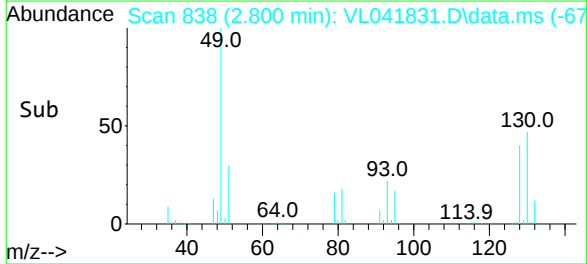
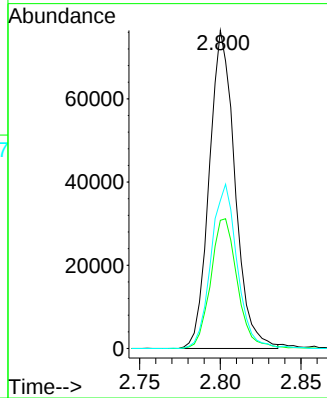
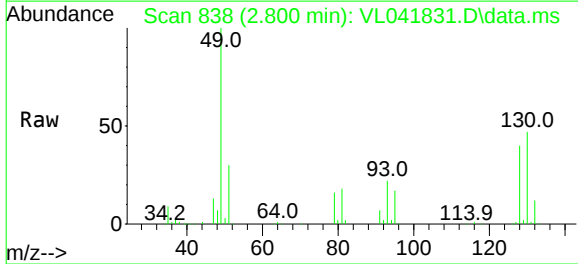
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 833
Delta R.T. 0.016 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion	Ratio	Lower	Upper
49	100		
128	42.3	21.6	64.6
130	52.6	28.3	85.0

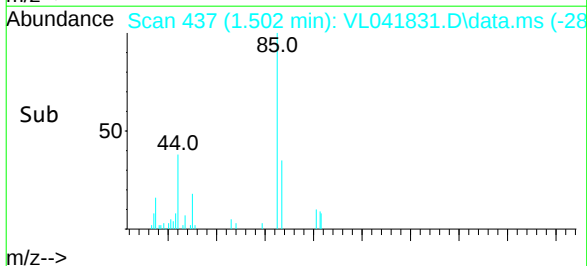
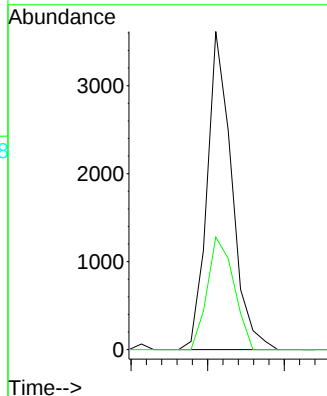
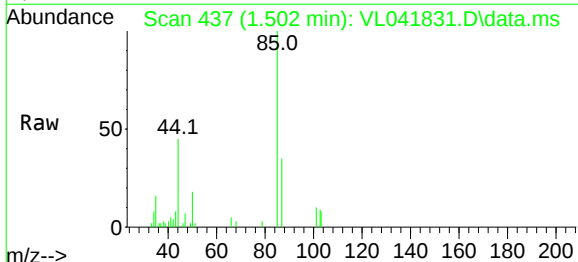
Manual Integrations
APPROVED

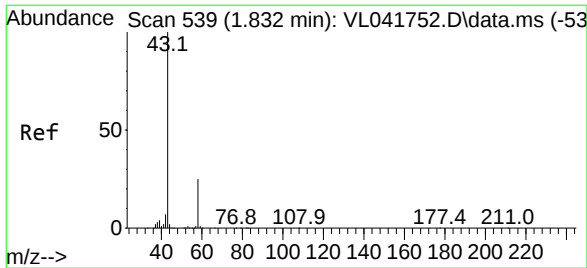
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#2
Dichlorodifluoromethane
Concen: 0.107 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50

Tgt Ion	Ratio	Lower	Upper
85	100		
87	35.4	24.5	36.7





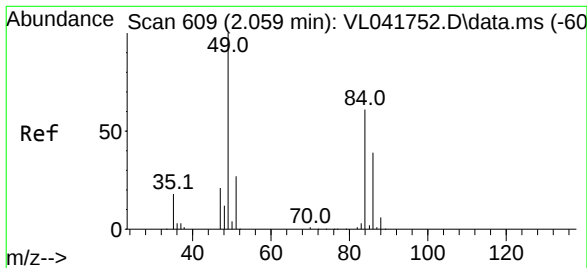
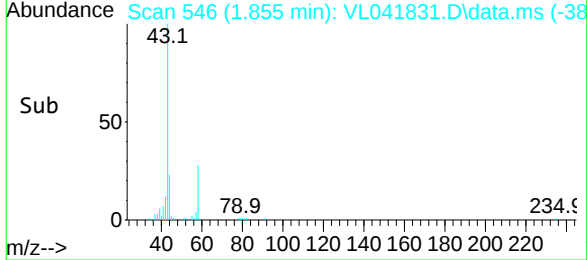
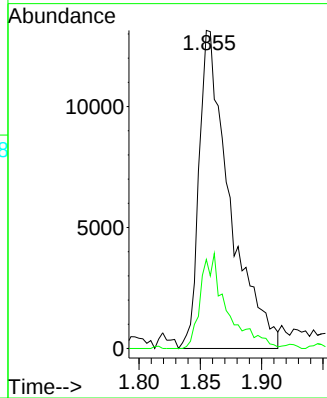
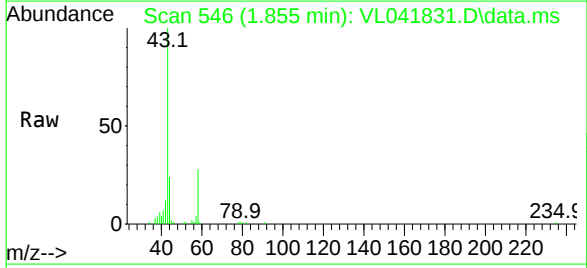
#15
Acetone
Concen: 1.381 ppbv
RT: 1.855 min Scan# 541
Delta R.T. 0.022 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 22759
Ion Ratio Lower Upper
43 100
58 26.5 19.7 29.5

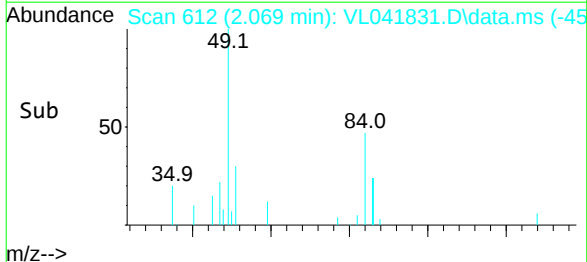
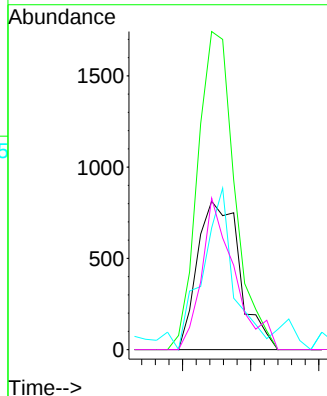
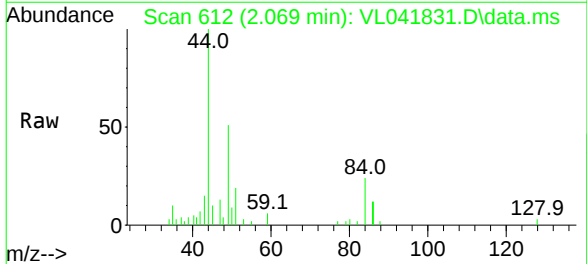
Manual Integrations
APPROVED

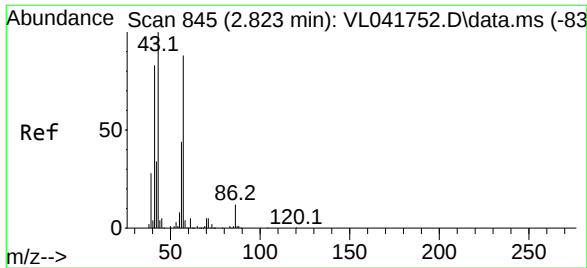
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#20
Methylene Chloride
Concen: 0.150 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.009 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50

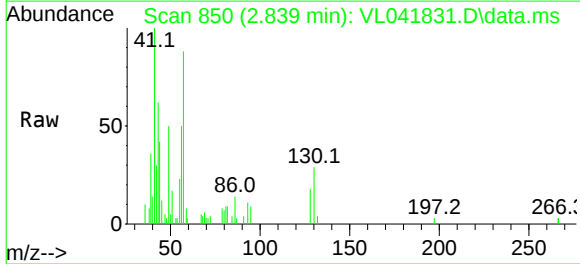
Tgt Ion: 84 Resp: 703
Ion Ratio Lower Upper
84 100
49 214.4 132.6 198.8#
51 82.0 37.6 56.4#
86 102.1 51.4 77.0#





#26
Hexane
Concen: 0.151 ppbv
RT: 2.839 min Scan# 85
Delta R.T. 0.016 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50

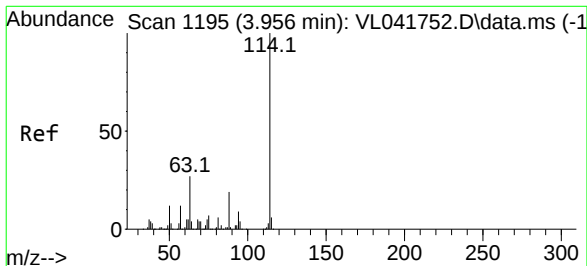
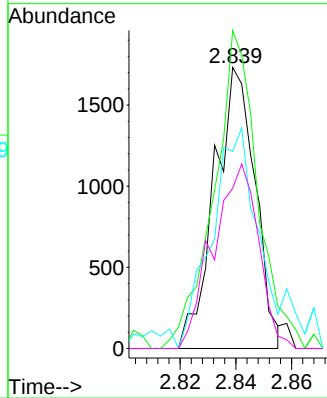
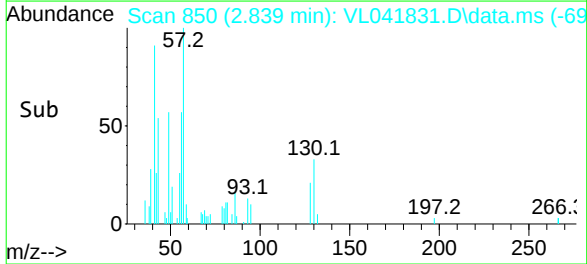
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:	57	Resp:	1759
Ion	Ratio	Lower	Upper
57	100		
41	127.6	79.6	119.4#
43	109.6	211.0	316.6#
56	73.1	42.6	63.8#

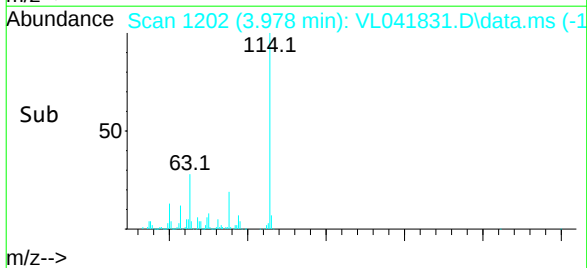
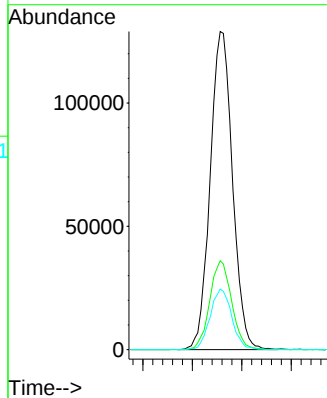
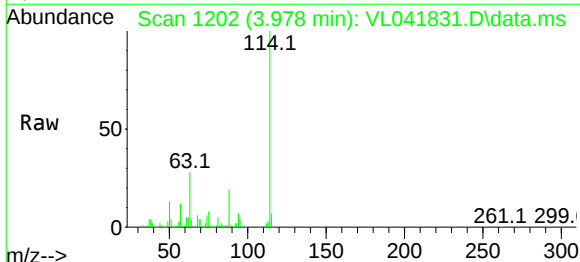
Manual Integrations
APPROVED

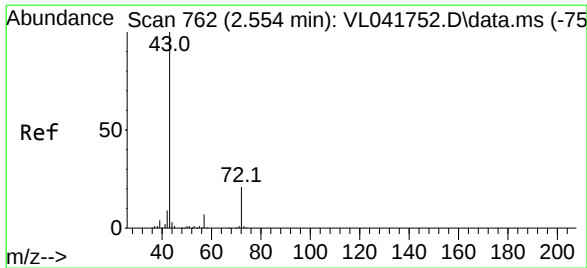
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. 0.022 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50

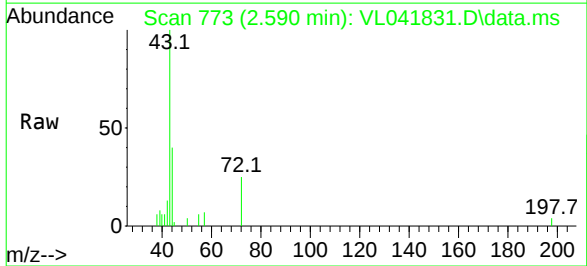
Tgt Ion:	114	Resp:	202396
Ion	Ratio	Lower	Upper
114	100		
63	27.4	21.8	32.8
88	18.4	14.8	22.2





#34
2-Butanone
Concen: 0.186 ppbv m
RT: 2.590 min Scan# 77
Delta R.T. 0.035 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50

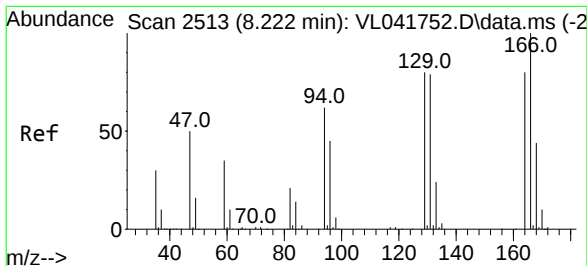
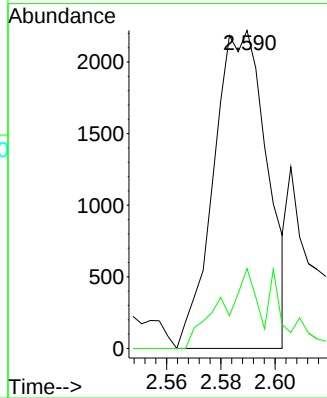
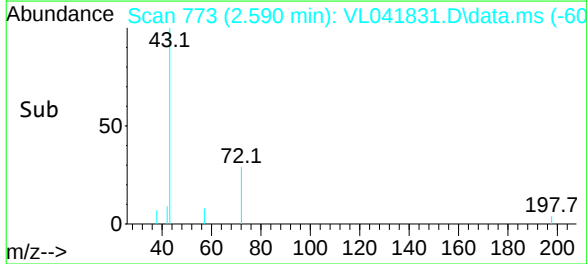
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 3027
Ion Ratio Lower Upper
43 100
72 0.0 16.8 25.2#

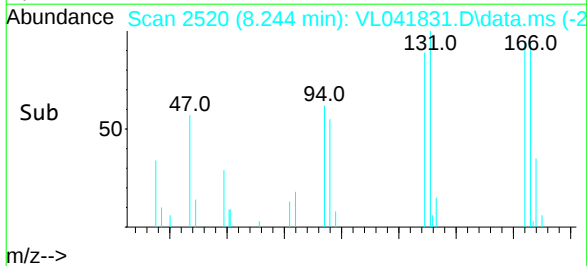
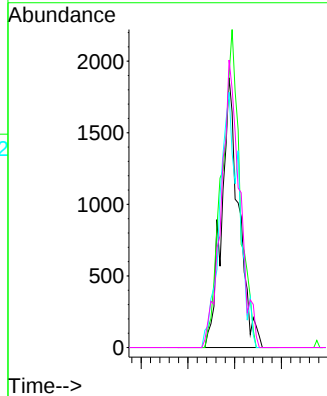
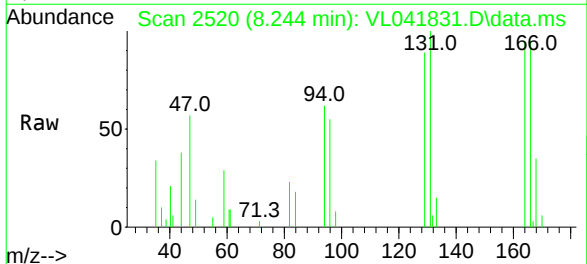
Manual Integrations
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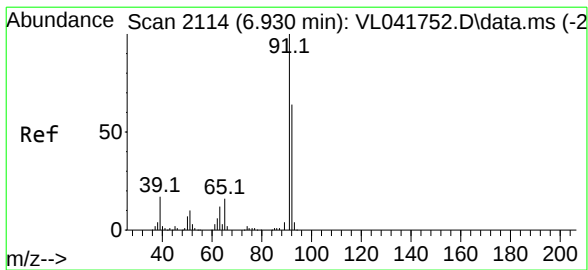
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#52
Tetrachloroethene
Concen: 0.311 ppbv m
RT: 8.244 min Scan# 2520
Delta R.T. 0.022 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50

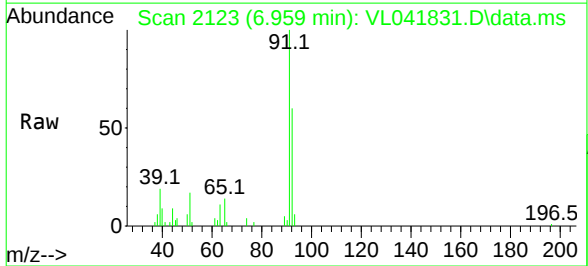
Tgt Ion:164 Resp: 2424
Ion Ratio Lower Upper
164 100
166 100.9 99.8 149.6
129 94.6 79.6 119.4
131 106.6 78.6 117.8





#53
Toluene
Concen: 0.468 ppbv m
RT: 6.959 min Scan# 2113
Delta R.T. 0.029 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50

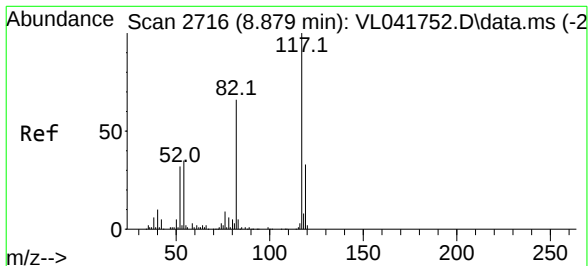
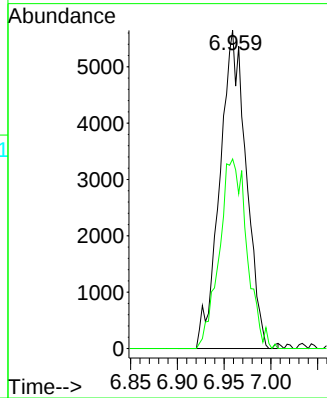
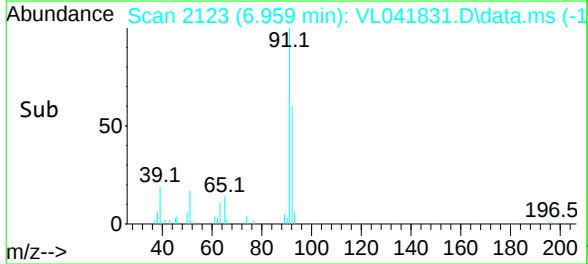
Instrument :
MSVOA_L
ClientSampleId :
SV2



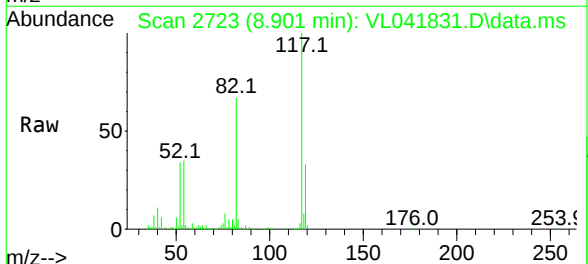
Tgt Ion: 91 Resp: 11103
Ion Ratio Lower Upper
91 100
92 62.2 47.9 71.9

Manual Integrations
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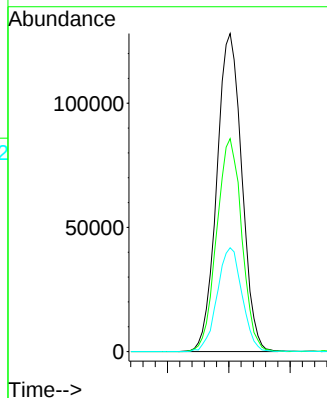
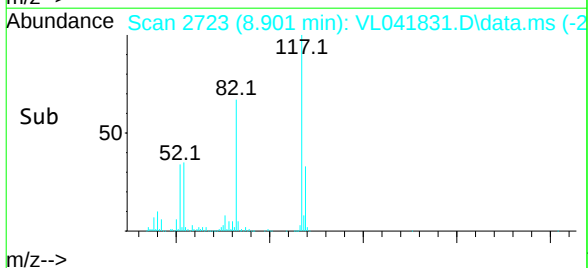
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025

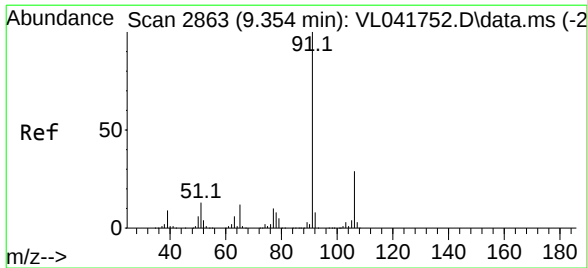


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 2723
Delta R.T. 0.022 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50



Tgt Ion:117 Resp: 181750
Ion Ratio Lower Upper
117 100
82 67.1 53.8 80.8
119 32.5 26.7 40.1





#58

Ethyl Benzene

Concen: 0.085 ppbv

RT: 9.377 min Scan# 2863

Delta R.T. 0.022 min

Lab File: VL041831.D

Acq: 03 Jan 2025 16:50

Instrument :

MSVOA_L

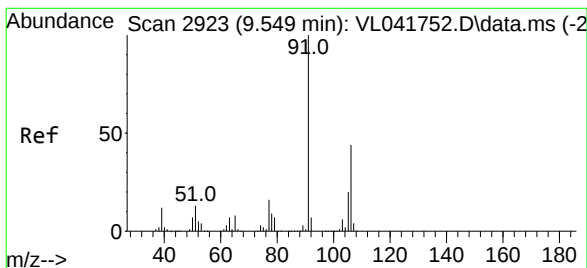
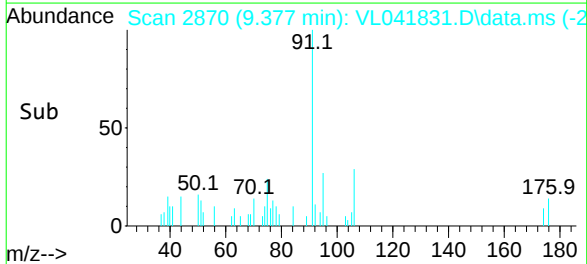
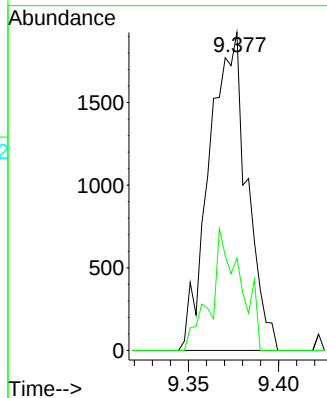
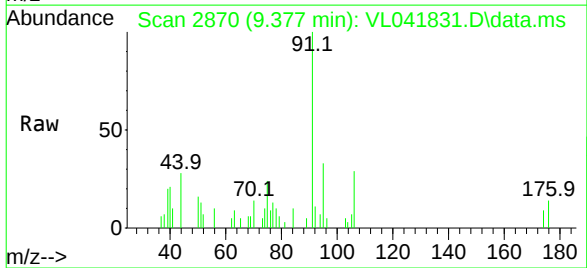
ClientSampleId :

SV2

Tgt Ion: 91 Resp: 2793
 Ion Ratio Lower Upper
 91 100
 106 29.1 23.5 35.3

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/06/2025
 Supervised By :Mahesh Dadoda 01/06/2025



#59

m/p-Xylene

Concen: 0.305 ppbv

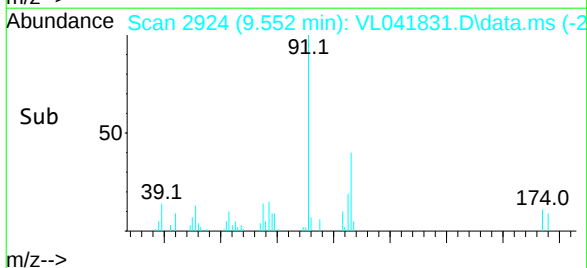
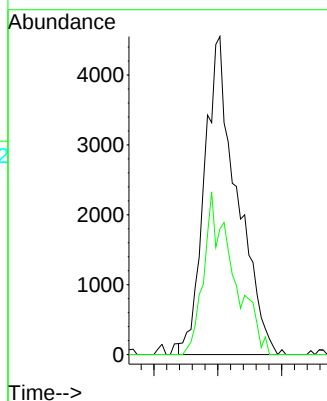
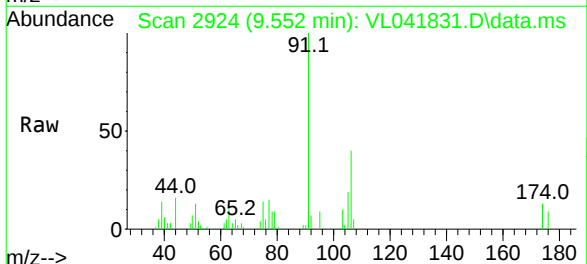
RT: 9.552 min Scan# 2924

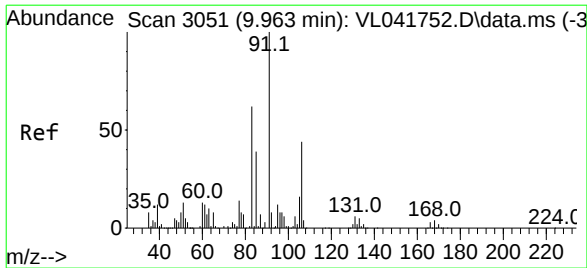
Delta R.T. 0.003 min

Lab File: VL041831.D

Acq: 03 Jan 2025 16:50

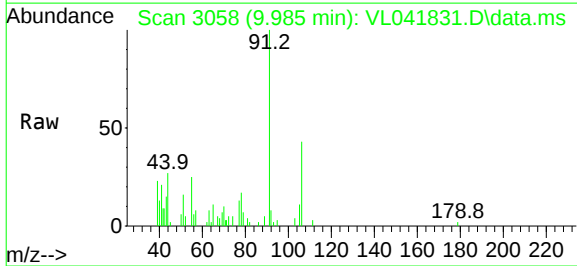
Tgt Ion: 91 Resp: 8030
 Ion Ratio Lower Upper
 91 100
 106 46.6 0.0 0.0#





#60
o-Xylene
Concen: 0.150 ppbv m
RT: 9.985 min Scan# 3051
Delta R.T. 0.022 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50

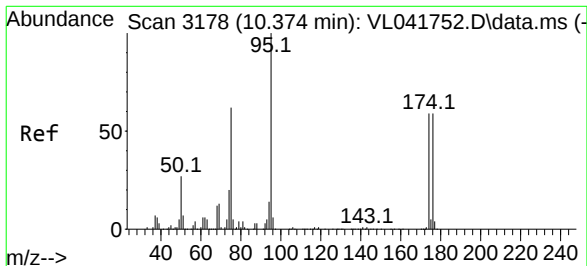
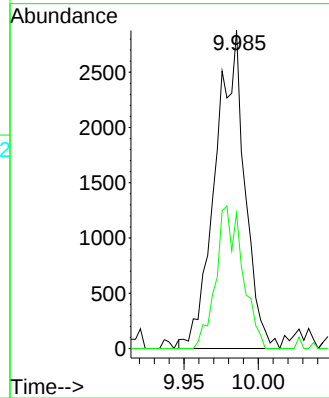
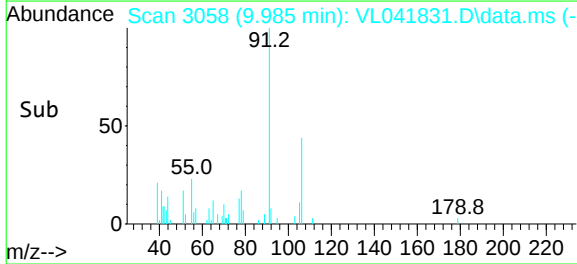
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 91 Resp: 3967
Ion Ratio Lower Upper
91 100
106 94.4 21.1 63.4#

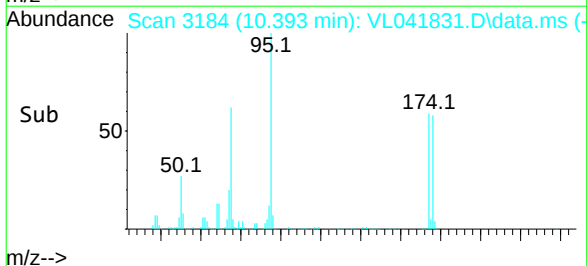
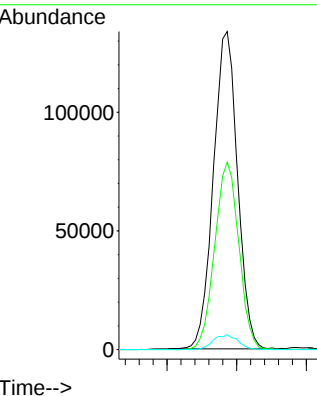
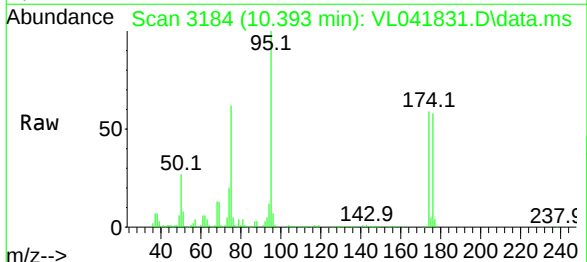
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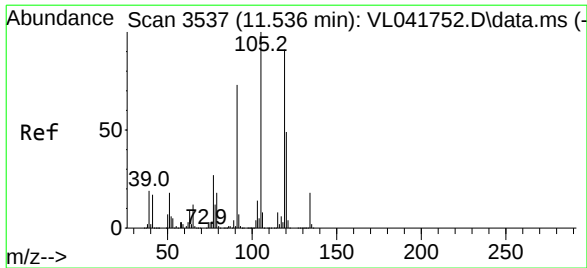
Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.618 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.019 min
Lab File: VL041831.D
Acq: 03 Jan 2025 16:50

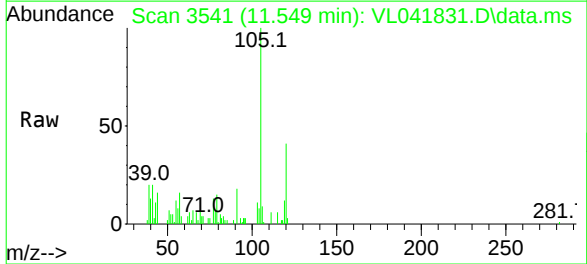
Tgt Ion: 95 Resp: 160817
Ion Ratio Lower Upper
95 100
174 59.1 47.6 71.4
175 4.8 3.7 5.5





#74
 1,2,4-Trimethylbenzene
 Concen: 0.202 ppbv m
 RT: 11.549 min Scan# 35
 Delta R.T. 0.013 min
 Lab File: VL041831.D
 Acq: 03 Jan 2025 16:50

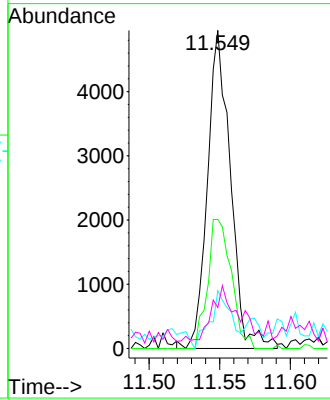
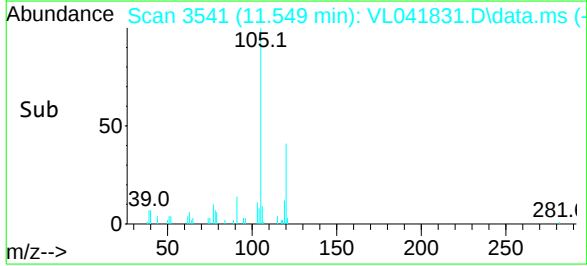
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt	Ion	105	Resp:	5601
Ion	Ratio	Lower	Upper	
105	100			
120	40.6	39.0	58.4	
91	18.1	58.1	87.1#	
77	12.9	21.8	32.8#	

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025
 Supervised By :Mahesh Dadoda 01/06/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: P5395 SAS No.: P5395 SDG No.: P5395
 Instrument ID: MSVOA_L Calibration Date(s): 12/16/2024 12/16/2024
 Heated Purge: (Y/N) N Calibration Time(s): 13:30 16:41
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL041752.D		RRF002 = VL041753.D		RRF001 = VL041754.D		
		RRF0.5 = VL041755.D		RRF0.1 = VL041756.D		RRF.03 = VL041757.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.625	0.689	0.695	0.682	0.673	0.909	0.701	13.6
Heptane	1.705	1.875	1.821	1.950			1.816	5.6
1,1-Dichloroethene	0.565	0.622	0.628	0.608			0.603	4.2
Cyclohexane	1.096	1.215	1.187	1.217			1.169	4.6
cis-1,2-Dichloroethene	1.331	1.460	1.519	1.430			1.419	5.4
1,1,1-Trichloroethane	2.028	2.101	2.186	2.158	2.113	2.218	2.128	3
2,2,4-Trimethylpentane	1.674	1.842	1.809	1.826			1.767	4.6
Benzene	0.975	1.059	1.080	1.079			1.034	5.2
Trichloroethene	0.388	0.428	0.437	0.408	0.469	0.551	0.439	12.9
Toluene	1.123	1.215	1.207	1.183			1.173	3.5
1,2-Dibromoethane	0.512	0.542	0.545	0.540	0.565		0.538	3.3
Tetrachloroethene	0.343	0.372	0.395	0.346	0.333	0.555	0.385	20.2
Ethyl Benzene	1.774	1.931	1.834	1.694			1.800	4.9
m/p-Xylene	1.417	1.522	1.467	1.423			1.448	3.3
o-Xylene	1.421	1.560	1.492	1.382			1.452	5
1,3,5-Trimethylbenzene	1.465	1.483	1.378	1.324			1.422	4.8
1,2,4-Trimethylbenzene	1.566	1.619	1.519	1.396			1.529	5.4
Naphthalene	1.258	1.154	1.046	0.928	0.754		1.065	18.6
1-Bromo-4-Fluorobenzene	0.848	0.844	0.819	0.834	0.829	0.827	0.833	1.2
Hexane	1.303	1.423	1.403	1.423			1.374	4.3

* 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 : VL121624AIR.M

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

Last Update : Thu Dec 19 07:32:09 2024

Response Via : Initial Calibration

Calibration Files

0.03=VL041757.D 0.1 =VL041756.D 0.5 =VL041755.D 1 =VL041754.D 2 =VL041753.D 10 =VL041752.D 15 =VL041758.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.886	1.927	1.840	1.682	1.562	1.779	8.61
3) Chlorodifluoro...			1.679	1.697	1.653	1.566	1.559	1.631	3.94
4) Chloromethane			0.737	0.729	0.736	0.630	0.650	0.696	7.48
5) T Vinyl Chloride	0.909	0.673	0.682	0.695	0.689	0.625	0.637	0.701	13.60
6) T Bromomethane			0.343	0.363	0.343	0.295	0.310	0.331	8.32
7) Chloroethane			0.282	0.267	0.297	0.254	0.262	0.272	6.26
8) T Dichlorotetra...			1.712	1.659	1.616	1.461	1.516	1.593	6.49
9) T Propene			0.788	0.734	0.750	0.633	0.629	0.707	10.16
10) T Heptane			1.950	1.821	1.875	1.705	1.726	1.816	5.64
11) T Trichlorofluor...			1.981	1.915	1.943	1.791	1.820	1.890	4.31
12) T 1,1,2-Trichlor...			1.491	1.504	1.466	1.341	1.386	1.437	4.92
13) Ethanol			0.081	0.080	0.059	0.036	0.037	0.059	37.17
14) T Bromoethene			0.509	0.477	0.484	0.474	0.482	0.485	2.84
15) T Acetone			2.474	2.284	2.047	1.461	1.462	1.946	24.00
16) T 1,3-Butadiene			0.891	0.779	0.777	0.685	0.699	0.766	10.74
17) tert-Butyl alc...			1.999	2.024	1.975	1.833	1.819	1.930	5.00
18) T 1,1-Dichloroet...			0.608	0.628	0.622	0.565	0.591	0.603	4.20
19) T Isopropyl Alcohol			1.709	1.320	1.107	0.860	0.841	1.167	30.91
20) T Methylene Chlo...			0.653	0.587	0.562	0.477	0.495	0.555	12.88
21) T Allyl Chloride			1.008	1.126	1.092	1.012	1.038	1.055	4.93
22) T trans-1,2-Dich...			0.749	0.698	0.697	0.640	0.665	0.690	5.96
23) T Vinyl Acetate			0.781	0.811	1.309	0.790	0.826	0.903	25.15
24) T 1,1-Dichloroet...			1.458	1.459	1.414	1.311	1.340	1.396	4.89
25) T Ethyl Acetate			3.618	3.813	3.745	3.430	3.492	3.620	4.48
26) T Hexane			1.423	1.403	1.423	1.303	1.316	1.374	4.32
27) T Carbon Disulfide			1.024	1.237	1.202	1.346	1.380	1.238	11.34
28) T Methyl tert-Bu...			1.033	1.295	1.115	1.098	1.030	1.114	9.69
29) T Chloroform			2.155	2.182	2.138	1.969	2.022	2.093	4.41
30) T Cyclohexane			1.217	1.187	1.215	1.096	1.130	1.169	4.62
31) T cis-1,2-Dichlo...			1.430	1.519	1.460	1.331	1.358	1.419	5.37
32) T 1,1,1-Trichlor...	2.218	2.113	2.158	2.186	2.101	2.028	2.091	2.128	3.03

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.869	0.820	0.860	0.736	0.737	0.805	8.05
35) T Carbon Tetrach...	0.671	0.657	0.634	0.716	0.758	0.756	0.777	0.710	7.94
36) T Benzene			1.079	1.080	1.059	0.975	0.979	1.034	5.16
37) T 1,2-Dichloroet...			0.690	0.642	0.650	0.608	0.628	0.644	4.71
38) T Trichloroethene	0.551	0.469	0.408	0.437	0.428	0.388	0.393	0.439	12.92
39) T 1,2-Dichloropr...			0.382	0.395	0.388	0.353	0.353	0.374	5.36

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL121624AIR.M										
40)	T	1,4-Dioxane		0.212	0.181	0.187	0.167	0.167	0.183	10.12
41)	T	Tetrahydrofuran		0.455	0.488	0.455	0.427	0.428	0.451	5.52
42)	T	Bromodichlorom...		0.664	0.735	0.730	0.777	0.796	0.740	6.88
43)		Methyl Methacr...		0.372	0.394	0.406	0.395	0.404	0.394	3.38
44)	T	2,2,4-Trimethy...		1.826	1.809	1.842	1.674	1.681	1.767	4.64
45)	T	t-1,3-Dichloro...		0.382	0.393	0.407	0.423	0.434	0.408	5.25
46)	T	cis-1,3-Dichlo...		0.500	0.493	0.522	0.533	0.540	0.518	3.96
47)	T	1,1,2-Trichlor...		0.408	0.402	0.406	0.368	0.371	0.391	5.06
48)	T	Dibromochlorom...		0.433	0.493	0.540	0.593	0.609	0.534	13.58
49)	T	Bromoform		0.328	0.395	0.443	0.498	0.519	0.437	17.80
50)	T	4-Methyl-2-Pen...		1.062	1.130	1.149	1.060	1.076	1.095	3.75
51)	T	2-Hexanone		0.831	0.923	0.953	0.857	0.876	0.888	5.59
52)	T	Tetrachloroethene	0.555 0.333	0.346	0.395	0.372	0.343	0.351	0.385	20.18
53)	T	Toluene		1.183	1.207	1.215	1.123	1.136	1.173	3.54
54)	T	1,2-Dibromoethane	0.565	0.540	0.545	0.542	0.512	0.527	0.538	3.32
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.487	0.533	0.568	0.532	0.532	0.530	5.43
57)	T	Chlorobenzene		1.053	1.078	1.088	0.951	0.946	1.023	6.78
58)	T	Ethyl Benzene		1.694	1.834	1.931	1.774	1.769	1.800	4.90
59)	T	m/p-Xylene		1.423	1.467	1.522	1.417	1.410	1.448	3.26
60)	T	o-Xylene		1.382	1.492	1.560	1.421	1.404	1.452	5.04
61)	T	Styrene		0.544	0.598	0.636	0.674	0.687	0.628	9.27
62)		Isopropylbenzene		2.138	2.234	2.293	2.135	2.105	2.181	3.64
63)	T	1,1,2,2-Tetrac...	0.979 0.936	0.953	0.909	0.907	0.841	0.835	0.909	5.96
64)		n-propylbenzene		0.520	0.581	0.584	0.535	0.537	0.551	5.28
65)		tert-Butylbenzene		1.964	2.027	2.100	1.892	1.856	1.968	5.04
66)	T	Benzyl Chloride		0.169	0.155	0.165	0.190	0.188	0.173	8.70
67)		sec-Butylbenzene		2.682	2.774	2.926	2.638	2.595	2.723	4.84
68)	S	1-Bromo-4-Fluo...	0.827 0.829	0.834	0.819	0.844	0.848	0.833	0.833	1.18
69)		p-Isopropyltol...		2.149	2.237	2.416	2.223	2.195	2.244	4.54
70)		n-Butylbenzene		1.977	2.184	2.300	2.198	2.183	2.168	5.43
71)		2-Chlorotoluene		1.640	1.698	1.760	1.616	1.609	1.665	3.84
72)	T	4-Ethyltoluene		1.681	1.659	1.794	1.731	1.703	1.713	3.06
73)	T	1,3,5-Trimethy...		1.324	1.378	1.483	1.465	1.458	1.422	4.78
74)	T	1,2,4-Trimethy...		1.396	1.519	1.619	1.566	1.543	1.529	5.41
75)	T	1,3-Dichlorobe...		1.023	1.015	0.994	0.929	0.912	0.975	5.22
76)	T	1,4-Dichlorobe...		0.996	0.972	0.992	0.931	0.924	0.963	3.50
77)	T	1,2-Dichlorobe...		1.009	0.978	0.983	0.865	0.855	0.938	7.68
78)	T	Hexachloro-1,3...		0.786	0.756	0.773	0.586	0.575	0.695	15.13
79)	T	Naphthalene	0.754	0.928	1.046	1.154	1.258	1.251	1.065	18.57
80)	T	Naphthalene,2- ...		0.094	0.093	0.137	0.651	0.673	0.329	92.27
81)	T	1,2,4-Trichlor...		0.536	0.553	0.592	0.621	0.608	0.582	6.25

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041752.D
 Acq On : 16 Dec 2024 13:30
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:11:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	68599	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	183786	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	163333	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 138451 10.172 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	115385	9.453	ppbv	100
3) Chlorodifluoromethane	1.473	51	107429	9.603	ppbv	100
4) Chloromethane	1.531	50	43215	9.049	ppbv	100
5) Vinyl Chloride	1.580	62	42849	8.905	ppbv	100
6) Bromomethane	1.667	94	20252	8.919	ppbv	100
7) Chloroethane	1.703	64	17403	9.311	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	100191	9.171	ppbv	100
9) Propene	1.483	41	43440	8.959	ppbv	100
10) Heptane	4.979	43	116969	9.391	ppbv	100
11) Trichlorofluoromethane	1.875	101	122831	9.474	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	91977	9.327	ppbv	100
13) Ethanol	1.719	45	2484	6.161	ppbv	100
14) Bromoethene	1.781	108	32528	9.770	ppbv	100
15) Acetone	1.832	43	100229	7.509	ppbv	100
16) 1,3-Butadiene	1.606	39	46989	8.940	ppbv	100
17) tert-Butyl alcohol	2.036	59	125757	9.497	ppbv	100
18) 1,1-Dichloroethene	2.033	96	38775	9.379	ppbv	100
19) Isopropyl Alcohol	1.884	45	59026	7.370	ppbv	100
20) Methylene Chloride	2.059	84	32734	8.601	ppbv	100
21) Allyl Chloride	2.095	41	69406	9.588	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	43898	9.276	ppbv	100
23) Vinyl Acetate	2.457	43	54227	9.350	ppbv	100
24) 1,1-Dichloroethane	2.405	63	89912	9.386	ppbv	100
25) Ethyl Acetate	2.833	43	235305	9.432	ppbv	100
26) Hexane	2.823	57	89385	9.486	ppbv	100
27) Carbon Disulfide	2.150	76	92329	10.873	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	75330	9.854	ppbv	100
29) Chloroform	2.846	83	135099	9.408	ppbv	100
30) Cyclohexane	3.855	84	75156	9.374	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	91276	9.374	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	139102	9.733	ppbv	100
34) 2-Butanone	2.554	43	135331	9.153	ppbv	100
35) Carbon Tetrachloride	3.758	117	138952	10.650	ppbv	100
36) Benzene	3.655	78	179134	9.423	ppbv	100
37) 1,2-Dichloroethane	3.215	62	111770	9.449	ppbv	100
38) Trichloroethene	4.545	130	71297	8.907	ppbv	100
39) 1,2-Dichloropropane	4.309	63	64789	9.423	ppbv	100
40) 1,4-Dioxane	4.580	88	30658	9.128	ppbv #	100
41) Tetrahydrofuran	3.049	42	78480	9.474	ppbv	100
42) Bromodichloromethane	4.483	83	142819	10.494	ppbv	100
43) Methyl Methacrylate	4.878	69	72578	10.020	ppbv	100
44) 2,2,4-Trimethylpentane	4.639	57	307748	9.479	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	77752	10.378	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041752.D
 Acq On : 16 Dec 2024 13:30
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:11:54 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	97992	10.303	ppbv	100
47) 1,1,2-Trichloroethane	6.577	97	67550	9.406	ppbv	100
48) Dibromochloromethane	7.383	129	108899	11.105	ppbv	100
49) Bromoform	9.481	173	91587	11.410	ppbv	100
50) 4-Methyl-2-Pentanone	5.749	43	194838	9.678	ppbv	100
51) 2-Hexanone	7.432	43	157473	9.650	ppbv	100
52) Tetrachloroethene	8.222	164	62989	8.901	ppbv	100
53) Toluene	6.930	91	206354	9.574	ppbv	100
54) 1,2-Dibromoethane	7.649	107	94016	9.501	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	86831	10.027	ppbv	100
57) Chlorobenzene	8.921	112	155349	9.295	ppbv	100
58) Ethyl Benzene	9.354	91	289734	9.853	ppbv	100
59) m/p-Xylene	9.549	91	462802m	19.568	ppbv	
60) o-Xylene	9.963	91	232101	9.789	ppbv	100
61) Styrene	9.869	104	110041	10.733	ppbv	100
62) Isopropylbenzene	10.539	105	348684	9.788	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	137363	9.255	ppbv	100
64) n-propylbenzene	10.989	120	87360	9.700	ppbv	100
65) tert-Butylbenzene	11.529	119	309036	9.615	ppbv	100
66) Benzyl Chloride	11.614	91	31039	10.954	ppbv	100
67) sec-Butylbenzene	11.769	105	430810	9.687	ppbv	100
69) p-Isopropyltoluene	11.924	119	363072	9.906	ppbv	100
70) n-Butylbenzene	12.280	91	358993	10.137	ppbv	100
71) 2-Chlorotoluene	10.902	91	264002	9.708	ppbv	100
72) 4-Ethyltoluene	11.125	105	282698	10.120	ppbv	100
73) 1,3,5-Trimethylbenzene	11.203	105	239261	10.304	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	255780	10.244	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	151752	9.532	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	152099	9.671	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	141338	9.227	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	95751	8.431	ppbv	100
79) Naphthalene	13.514	128	205511	11.812	ppbv	100
80) Naphthalene,2-methyl-	14.459	142	106311	19.755	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	101461	10.672	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041753.D
 Acq On : 16 Dec 2024 14:03
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Dec 19 06:12:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

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

Internal Standards						
1) Bromochloromethane	2.787	49	67443	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	182992	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	163971	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	138312	10.122	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	24819	2.068	ppbv	98
3) Chlorodifluoromethane	1.476	51	22299	2.027	ppbv	96
4) Chloromethane	1.531	50	9926	2.114	ppbv	99
5) Vinyl Chloride	1.580	62	9300	1.966	ppbv	99
6) Bromomethane	1.667	94	4625	2.072	ppbv	99
7) Chloroethane	1.706	64	4003	2.178	ppbv #	85
8) Dichlorotetrafluoroethane	1.554	85	21791	2.029	ppbv	100
9) Propene	1.483	41	10115	2.122	ppbv	97
10) Heptane	4.978	43	25297	2.066	ppbv	100
11) Trichlorofluoromethane	1.878	101	26208	2.056	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.140	101	19770	2.039	ppbv	99
13) Ethanol	1.722	45	792	1.998	ppbv #	49
14) Bromoethene	1.784	108	6527	1.994	ppbv #	90
15) Acetone	1.835	43	27613	2.104	ppbv	99
16) 1,3-Butadiene	1.609	39	10478	2.028	ppbv	96
17) tert-Butyl alcohol	2.043	59	26646	2.047	ppbv	99
18) 1,1-Dichloroethene	2.033	96	8389	2.064	ppbv	92
19) Isopropyl Alcohol	1.887	45	14937	1.897	ppbv	93
20) Methylene Chloride	2.062	84	7586	2.027	ppbv	94
21) Allyl Chloride	2.094	41	14731	2.070	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	9407	2.022	ppbv	94
23) Vinyl Acetate	2.463	43	17652	3.096	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	19070	2.025	ppbv	99
25) Ethyl Acetate	2.836	43	50510	2.059	ppbv	99
26) Hexane	2.826	57	19200	2.073	ppbv	98
27) Carbon Disulfide	2.153	76	16214	1.942	ppbv #	34
28) Methyl tert-Butyl Ether	2.441	73	15039	2.001	ppbv	98
29) Chloroform	2.849	83	28843	2.043	ppbv	98
30) Cyclohexane	3.858	84	16384	2.079	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	19688	2.057	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	28341	2.017	ppbv	98
34) 2-Butanone	2.557	43	31483	2.138	ppbv	99
35) Carbon Tetrachloride	3.765	117	27727	2.134	ppbv	98
36) Benzene	3.658	78	38759	2.048	ppbv	94
37) 1,2-Dichloroethane	3.221	62	23800	2.021	ppbv	98
38) Trichloroethene	4.548	130	15660	1.965	ppbv	94
39) 1,2-Dichloropropane	4.315	63	14197	2.074	ppbv	94
40) 1,4-Dioxane	4.603	88	6826m	2.041	ppbv	
41) Tetrahydrofuran	3.059	42	16665	2.021	ppbv	96
42) Bromodichloromethane	4.489	83	26716	1.972	ppbv	98
43) Methyl Methacrylate	4.884	69	14849	2.059	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	67432	2.086	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	14885	1.995	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041753.D
 Acq On : 16 Dec 2024 14:03
 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 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:12:42 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	19105m	2.017	ppbv	
47) 1,1,2-Trichloroethane	6.584	97	14858	2.078	ppbv	89
48) Dibromochloromethane	7.390	129	19764	2.024	ppbv	98
49) Bromoform	9.484	173	16200	2.027	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	42045	2.098	ppbv	97
51) 2-Hexanone	7.441	43	34878	2.147	ppbv #	98
52) Tetrachloroethene	8.225	164	13612	1.932	ppbv	93
53) Toluene	6.933	91	44470	2.072	ppbv	99
54) 1,2-Dibromoethane	7.655	107	19820	2.012	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.924	131	18613	2.141	ppbv	98
57) Chlorobenzene	8.920	112	35685	2.127	ppbv	99
58) Ethyl Benzene	9.354	91	63316	2.145	ppbv	97
59) m/p-Xylene	9.535	91	99821m	4.204	ppbv	
60) o-Xylene	9.966	91	51152	2.149	ppbv	99
61) Styrene	9.872	104	20842	2.025	ppbv	96
62) Isopropylbenzene	10.539	105	75206	2.103	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	29751	1.997	ppbv	100
64) n-propylbenzene	10.992	120	19146	2.117	ppbv	99
65) tert-Butylbenzene	11.532	119	68879	2.135	ppbv	98
66) Benzyl Chloride	11.617	91	5400	1.898	ppbv	99
67) sec-Butylbenzene	11.769	105	95968	2.149	ppbv	100
69) p-Isopropyltoluene	11.927	119	79236	2.153	ppbv	100
70) n-Butylbenzene	12.283	91	75430	2.122	ppbv	99
71) 2-Chlorotoluene	10.901	91	57724	2.114	ppbv	99
72) 4-Ethyltoluene	11.125	105	58841	2.098	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	48645	2.087	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	53084	2.118	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	32609	2.040	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	32527	2.060	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	32223	2.095	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	25358	2.224	ppbv	98
79) Naphthalene	13.513	128	37855	2.167	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	4482	0.830	ppbv	94
81) 1,2,4-Trichlorobenzene	13.442	180	19425	2.035	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041754.D
 Acq On : 16 Dec 2024 14:34
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Dec 19 06:13:31 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

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

Internal Standards						
1) Bromochloromethane	2.784	49	65928	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	178926	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	162267	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.374	95	132857	9.825	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	12706	1.083	ppbv	98
3) Chlorodifluoromethane	1.473	51	11187	1.041	ppbv	98
4) Chloromethane	1.531	50	4805	1.047	ppbv	99
5) Vinyl Chloride	1.580	62	4580	0.990	ppbv	98
6) Bromomethane	1.667	94	2394	1.097	ppbv	99
7) Chloroethane	1.703	64	1763	0.981	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	10938	1.042	ppbv	99
9) Propene	1.483	41	4840	1.039	ppbv	94
10) Heptane	4.972	43	12004	1.003	ppbv	93
11) Trichlorofluoromethane	1.874	101	12625	1.013	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	9915	1.046	ppbv	98
13) Ethanol	1.719	45	525m	1.355	ppbv	
14) Bromoethene	1.780	108	3148	0.984	ppbv #	86
15) Acetone	1.832	43	15060	1.174	ppbv	99
16) 1,3-Butadiene	1.609	39	5137	1.017	ppbv	95
17) tert-Butyl alcohol	2.039	59	13341	1.048	ppbv	96
18) 1,1-Dichloroethene	2.033	96	4139	1.042	ppbv	96
19) Isopropyl Alcohol	1.884	45	8703	1.131	ppbv	100
20) Methylene Chloride	2.059	84	3868	1.057	ppbv	92
21) Allyl Chloride	2.094	41	7425	1.067	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	4599	1.011	ppbv	96
23) Vinyl Acetate	2.460	43	5345	0.959	ppbv #	95
24) 1,1-Dichloroethane	2.408	63	9621	1.045	ppbv	98
25) Ethyl Acetate	2.836	43	25141	1.049	ppbv	99
26) Hexane	2.826	57	9250	1.021	ppbv	93
27) Carbon Disulfide	2.149	76	8152	0.999	ppbv #	19
28) Methyl tert-Butyl Ether	2.441	73	8539	1.162	ppbv	94
29) Chloroform	2.845	83	14384	1.042	ppbv	96
30) Cyclohexane	3.852	84	7824	1.015	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	10013	1.070	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	14415	1.049	ppbv	98
34) 2-Butanone	2.557	43	14673	1.019	ppbv	99
35) Carbon Tetrachloride	3.761	117	12808m	1.008	ppbv	
36) Benzene	3.651	78	19331	1.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	11490	0.998	ppbv #	94
38) Trichloroethene	4.551	130	7824m	1.004	ppbv	
39) 1,2-Dichloropropane	4.311	63	7068	1.056	ppbv	86
40) 1,4-Dioxane	4.596	88	3241	0.991	ppbv #	40
41) Tetrahydrofuran	3.062	42	8727	1.082	ppbv	97
42) Bromodichloromethane	4.489	83	13154	0.993	ppbv	100
43) Methyl Methacrylate	4.875	69	7044m	0.999	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	32361	1.024	ppbv	97
45) t-1,3-Dichloropropene	6.412	75	7027	0.963	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041754.D
 Acq On : 16 Dec 2024 14:34
 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 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:13:31 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	8815m	0.952	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	7189m	1.028	ppbv	
48) Dibromochloromethane	7.383	129	8817	0.924	ppbv	97
49) Bromoform	9.480	173	7073	0.905	ppbv	96
50) 4-Methyl-2-Pentanone	5.761	43	20212	1.031	ppbv	100
51) 2-Hexanone	7.441	43	16514	1.040	ppbv #	99
52) Tetrachloroethene	8.225	164	7067m	1.026	ppbv	
53) Toluene	6.930	91	21594	1.029	ppbv	100
54) 1,2-Dibromoethane	7.648	107	9758	1.013	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.924	131	8643	1.005	ppbv	93
57) Chlorobenzene	8.920	112	17500	1.054	ppbv	97
58) Ethyl Benzene	9.351	91	29762	1.019	ppbv	98
59) m/p-Xylene	9.529	91	47599m	2.026	ppbv	
60) o-Xylene	9.963	91	24210	1.028	ppbv	98
61) Styrene	9.869	104	9707	0.953	ppbv	100
62) Isopropylbenzene	10.539	105	36251	1.024	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	14752	1.001	ppbv	98
64) n-propylbenzene	10.985	120	9432	1.054	ppbv	91
65) tert-Butylbenzene	11.529	119	32887	1.030	ppbv	100
66) Benzyl Chloride	11.610	91	2518	0.894	ppbv	97
67) sec-Butylbenzene	11.765	105	45015	1.019	ppbv	98
69) p-Isopropyltoluene	11.924	119	36298	0.997	ppbv	98
70) n-Butylbenzene	12.280	91	35432	1.007	ppbv	98
71) 2-Chlorotoluene	10.901	91	27561	1.020	ppbv	97
72) 4-Ethyltoluene	11.125	105	26921	0.970	ppbv	98
73) 1,3,5-Trimethylbenzene	11.202	105	22360	0.969	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	24654	0.994	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	16476	1.042	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	15774	1.010	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	15866	1.043	ppbv	97
78) Hexachloro-1,3-Butadiene	13.882	225	12266	1.087	ppbv	97
79) Naphthalene	13.513	128	16971	0.982	ppbv	96
80) Naphthalene,2-methyl-	14.458	142	1504	0.281	ppbv #	90
81) 1,2,4-Trichlorobenzene	13.439	180	8973	0.950	ppbv	96

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

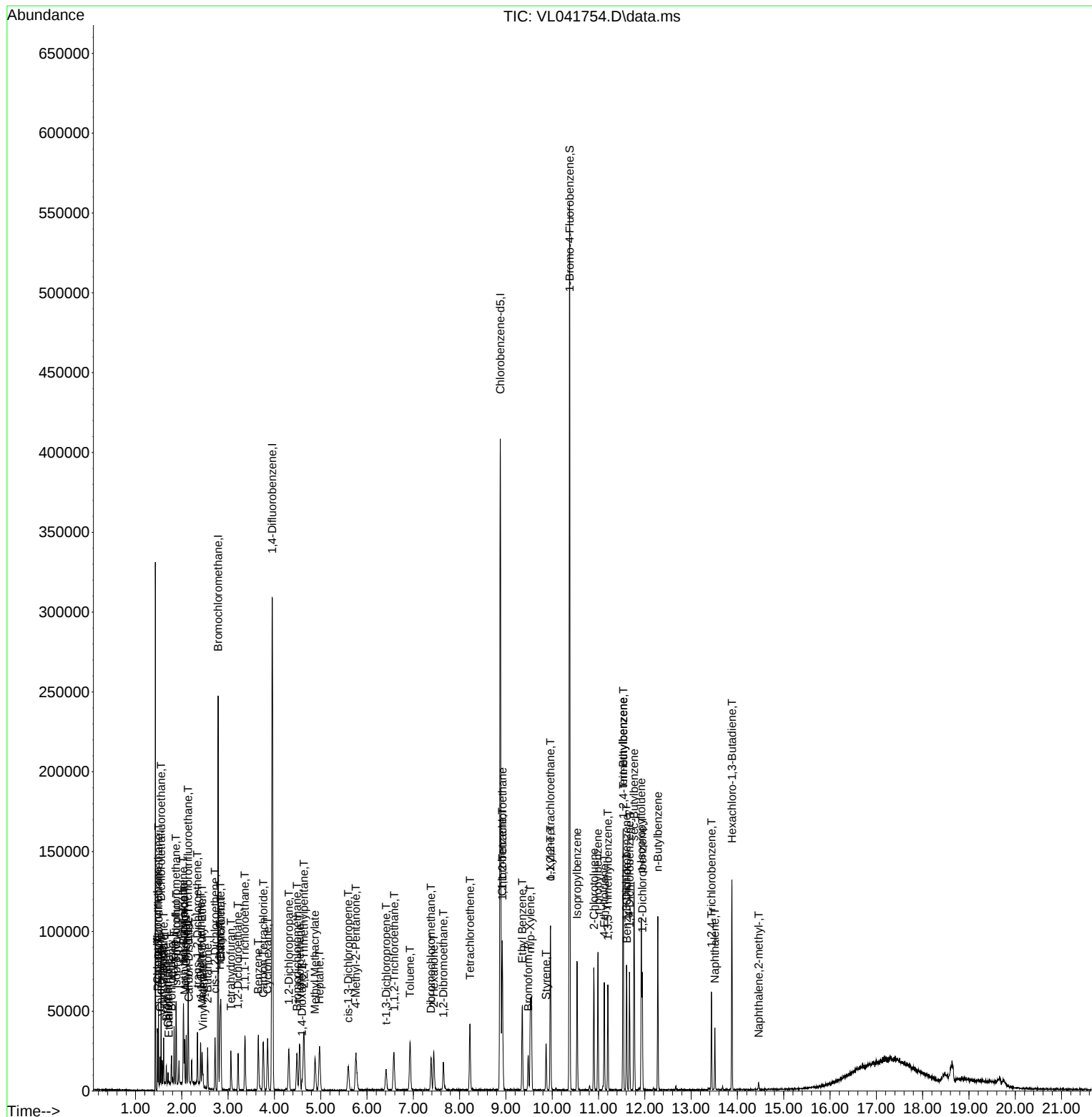
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041754.D
Acq On : 16 Dec 2024 14:34
Operator : SY/MD
Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:13:31 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041755.D
 Acq On : 16 Dec 2024 15:05
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Dec 19 06:14:17 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

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

Internal Standards						
1) Bromochloromethane	2.787	49	66562	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	178453	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	158571	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 132273 10.010 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	6277	0.530	ppbv	94
3) Chlorodifluoromethane	1.476	51	5587	0.515	ppbv	95
4) Chloromethane	1.531	50	2452	0.529	ppbv	90
5) Vinyl Chloride	1.580	62	2269	0.486	ppbv	97
6) Bromomethane	1.667	94	1143	0.519	ppbv #	78
7) Chloroethane	1.703	64	939	0.518	ppbv	88
8) Dichlorotetrafluoroethane	1.554	85	5699	0.538	ppbv	97
9) Propene	1.483	41	2622	0.557	ppbv #	82
10) Heptane	4.978	43	6491m	0.537	ppbv	
11) Trichlorofluoromethane	1.878	101	6594	0.524	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	4962	0.519	ppbv	96
13) Ethanol	1.719	45	269m	0.688	ppbv	
14) Bromoethene	1.781	108	1694	0.524	ppbv #	93
15) Acetone	1.836	43	8233	0.636	ppbv	97
16) 1,3-Butadiene	1.609	39	2966	0.582	ppbv	88
17) tert-Butyl alcohol	2.043	59	6654	0.518	ppbv #	91
18) 1,1-Dichloroethene	2.033	96	2022	0.504	ppbv	96
19) Isopropyl Alcohol	1.884	45	5687	0.732	ppbv #	39
20) Methylene Chloride	2.062	84	2174	0.589	ppbv #	91
21) Allyl Chloride	2.098	41	3354	0.478	ppbv	86
22) trans-1,2-Dichloroethene	2.341	96	2494	0.543	ppbv	83
23) Vinyl Acetate	2.464	43	2599	0.462	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	4854	0.522	ppbv #	97
25) Ethyl Acetate	2.839	43	12040	0.497	ppbv #	97
26) Hexane	2.829	57	4735	0.518	ppbv	96
27) Carbon Disulfide	2.153	76	3409	0.414	ppbv #	37
28) Methyl tert-Butyl Ether	2.441	73	3438	0.464	ppbv	99
29) Chloroform	2.849	83	7172	0.515	ppbv	98
30) Cyclohexane	3.859	84	4051	0.521	ppbv	96
31) cis-1,2-Dichloroethene	2.723	61	4758	0.504	ppbv	91
32) 1,1,1-Trichloroethane	3.367	97	7182	0.518	ppbv	99
34) 2-Butanone	2.557	43	7756	0.540	ppbv	94
35) Carbon Tetrachloride	3.765	117	5655	0.446	ppbv	90
36) Benzene	3.658	78	9629	0.522	ppbv	97
37) 1,2-Dichloroethane	3.218	62	6154	0.536	ppbv	99
38) Trichloroethene	4.551	130	3637m	0.468	ppbv	
39) 1,2-Dichloropropane	4.318	63	3410m	0.511	ppbv	
40) 1,4-Dioxane	4.606	88	1892m	0.580	ppbv	
41) Tetrahydrofuran	3.066	42	4061	0.505	ppbv	99
42) Bromodichloromethane	4.490	83	5926m	0.448	ppbv	
43) Methyl Methacrylate	4.881	69	3322	0.472	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	16294m	0.517	ppbv	
45) t-1,3-Dichloropropene	6.422	75	3406m	0.468	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041755.D
 Acq On : 16 Dec 2024 15:05
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Dec 19 06:14:17 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.597	75	4462m	0.483	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	3636m	0.521	ppbv	
48) Dibromochloromethane	7.387	129	3865	0.406	ppbv	99
49) Bromoform	9.484	173	2928m	0.376	ppbv	
50) 4-Methyl-2-Pentanone	5.765	43	9479m	0.485	ppbv	
51) 2-Hexanone	7.451	43	7412	0.468	ppbv #	99
52) Tetrachloroethene	8.225	164	3091	0.450	ppbv #	78
53) Toluene	6.933	91	10554	0.504	ppbv	99
54) 1,2-Dibromoethane	7.658	107	4819m	0.502	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.930	131	3858m	0.459	ppbv	
57) Chlorobenzene	8.927	112	8346m	0.514	ppbv	
58) Ethyl Benzene	9.358	91	13428	0.470	ppbv	97
59) m/p-Xylene	9.552	91	22560m	0.983	ppbv	
60) o-Xylene	9.963	91	10954	0.476	ppbv	98
61) Styrene	9.869	104	4314	0.433	ppbv	94
62) Isopropylbenzene	10.542	105	16953	0.490	ppbv	95
63) 1,1,2,2-Tetrachloroethane	9.966	83	7559	0.525	ppbv	98
64) n-propylbenzene	10.989	120	4126	0.472	ppbv	92
65) tert-Butylbenzene	11.529	119	15569	0.499	ppbv	99
66) Benzyl Chloride	11.620	91	1340m	0.487	ppbv	
67) sec-Butylbenzene	11.769	105	21263	0.492	ppbv	96
69) p-Isopropyltoluene	11.928	119	17041	0.479	ppbv	99
70) n-Butylbenzene	12.284	91	15671	0.456	ppbv	99
71) 2-Chlorotoluene	10.902	91	13000	0.492	ppbv	97
72) 4-Ethyltoluene	11.128	105	13324	0.491	ppbv	98
73) 1,3,5-Trimethylbenzene	11.206	105	10497	0.466	ppbv	91
74) 1,2,4-Trimethylbenzene	11.536	105	11070	0.457	ppbv #	76
75) 1,3-Dichlorobenzene	11.604	146	8107	0.525	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	7893	0.517	ppbv	97
77) 1,2-Dichlorobenzene	11.950	146	7997	0.538	ppbv	96
78) Hexachloro-1,3-Butadiene	13.882	225	6232	0.565	ppbv	98
79) Naphthalene	13.517	128	7360	0.436	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	748	0.143	ppbv	94
81) 1,2,4-Trichlorobenzene	13.442	180	4248	0.460	ppbv	93

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

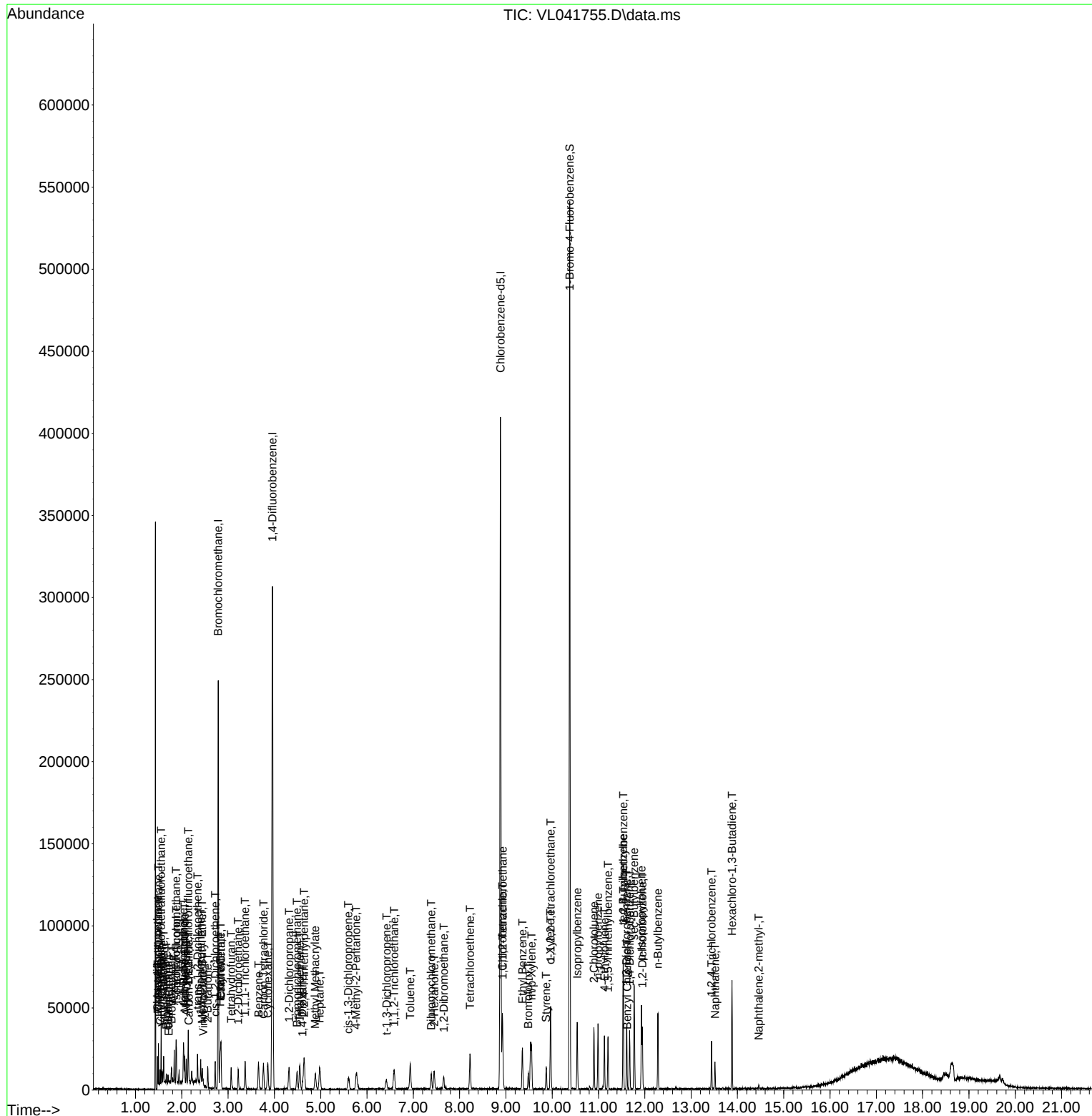
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041755.D
Acq On : 16 Dec 2024 15:05
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:14:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041756.D
 Acq On : 16 Dec 2024 15:37
 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 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:15:07 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	65926	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	177964	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	158649	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	131540	9.950	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	444	0.096	ppbv #	78
32) 1,1,1-Trichloroethane	3.370	97	1393	0.101	ppbv	97
35) Carbon Tetrachloride	3.771	117	1170	0.093	ppbv #	84
38) Trichloroethene	4.548	130	835m	0.108	ppbv	
52) Tetrachloroethene	8.228	164	593m	0.087	ppbv	
54) 1,2-Dibromoethane	7.658	107	1005m	0.105	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	1485m	0.103	ppbv	
79) Naphthalene	13.523	128	1196	0.071	ppbv #	90

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

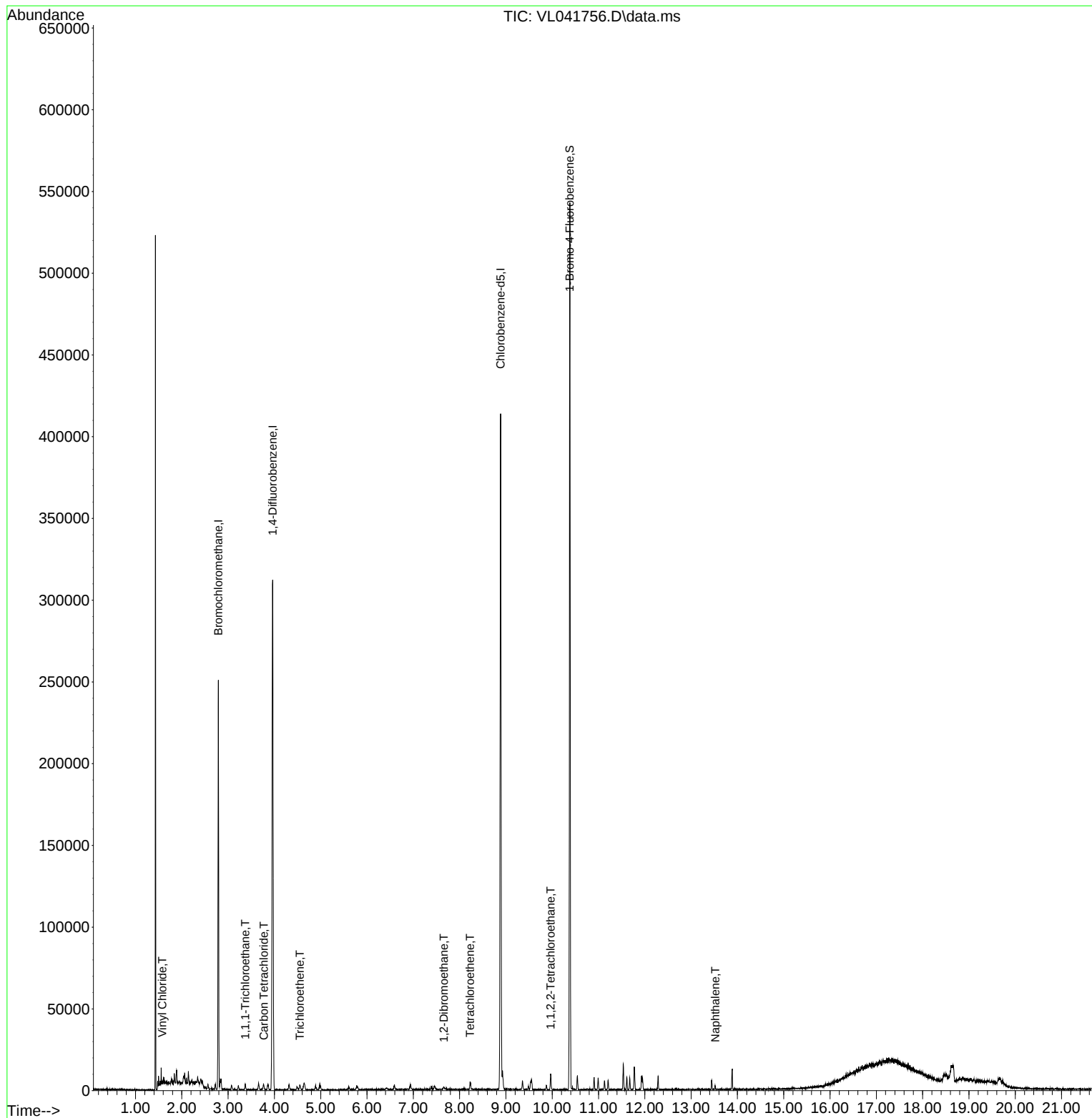
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041756.D
Acq On : 16 Dec 2024 15:37
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:15:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041757.D
 Acq On : 16 Dec 2024 16:08
 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 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:15:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	64158	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	174825	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	154998	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	128167	9.923	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	175	0.039	ppbv #	84
32) 1,1,1-Trichloroethane	3.369	97	427m	0.032	ppbv	
35) Carbon Tetrachloride	3.768	117	352m	0.028	ppbv	
38) Trichloroethene	4.551	130	289m	0.038	ppbv	
52) Tetrachloroethene	8.234	164	291m	0.043	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.969	83	455	0.032	ppbv #	96

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

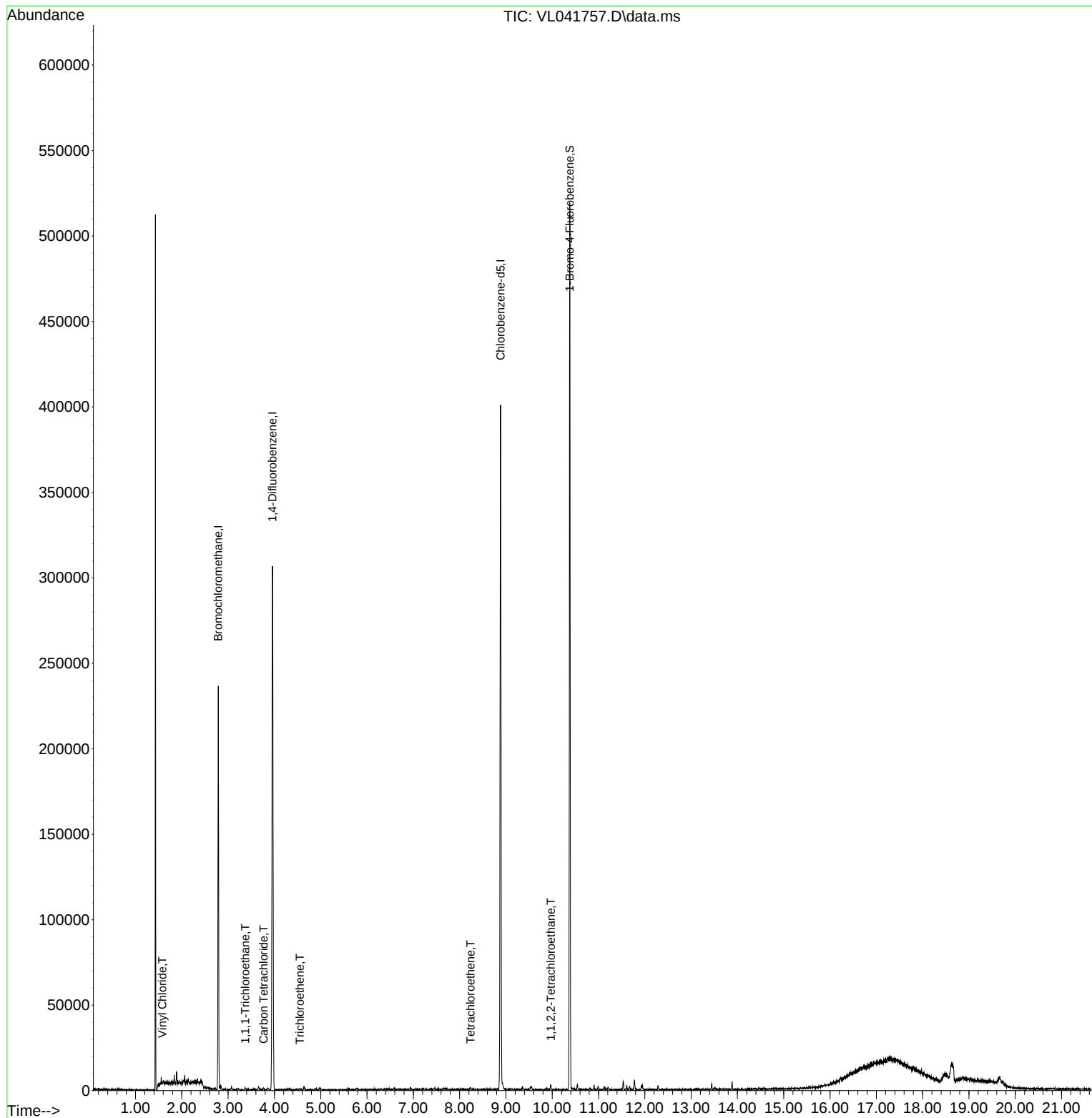
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041757.D
Acq On : 16 Dec 2024 16:08
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Dec 19 06:15:54 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 19 06:09:59 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
Supervised By : Mahesh Dadoda 12/20/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041758.D
 Acq On : 16 Dec 2024 16:41
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 06:16:40 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 06:09:59 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	65186	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	176856	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	160457	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 133687 9.998 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	152683	13.163	ppbv	95
3) Chlorodifluoromethane	1.473	51	152455	14.341	ppbv	98
4) Chloromethane	1.531	50	63517	13.996	ppbv	98
5) Vinyl Chloride	1.577	62	62250	13.615	ppbv	99
6) Bromomethane	1.667	94	30345	14.064	ppbv	96
7) Chloroethane	1.703	64	25650	14.442	ppbv	95
8) Dichlorotetrafluoroethane	1.554	85	148190	14.274	ppbv	99
9) Propene	1.483	41	61515	13.351	ppbv	99
10) Heptane	4.978	43	168804	14.263	ppbv	100
11) Trichlorofluoromethane	1.874	101	177984	14.446	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	135538	14.464	ppbv	98
13) Ethanol	1.719	45	3643	9.509	ppbv	100
14) Bromoethene	1.780	108	47132	14.898	ppbv	99
15) Acetone	1.832	43	142980	11.273	ppbv	100
16) 1,3-Butadiene	1.606	39	68311	13.678	ppbv	98
17) tert-Butyl alcohol	2.036	59	177908	14.140	ppbv	99
18) 1,1-Dichloroethene	2.033	96	57770	14.705	ppbv	99
19) Isopropyl Alcohol	1.884	45	82211	10.802	ppbv	99
20) Methylene Chloride	2.059	84	48356	13.371	ppbv	99
21) Allyl Chloride	2.094	41	101528	14.760	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	65029	14.461	ppbv	97
23) Vinyl Acetate	2.460	43	80795	14.661	ppbv	98
24) 1,1-Dichloroethane	2.405	63	131030	14.394	ppbv	100
25) Ethyl Acetate	2.832	43	341429	14.402	ppbv	100
26) Hexane	2.823	57	128657	14.369	ppbv	99
27) Carbon Disulfide	2.149	76	134963	16.726	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	100758	13.871	ppbv	100
29) Chloroform	2.845	83	197713	14.489	ppbv	99
30) Cyclohexane	3.855	84	110448	14.497	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	132821	14.355	ppbv	99
32) 1,1,1-Trichloroethane	3.366	97	204468	15.055	ppbv	100
34) 2-Butanone	2.554	43	195439	13.736	ppbv	99
35) Carbon Tetrachloride	3.761	117	206252	16.428	ppbv	94
36) Benzene	3.654	78	259630	14.192	ppbv	99
37) 1,2-Dichloroethane	3.214	62	166576	14.633	ppbv	100
38) Trichloroethene	4.548	130	104184	13.525	ppbv	95
39) 1,2-Dichloropropane	4.312	63	93624	14.150	ppbv	97
40) 1,4-Dioxane	4.577	88	44377	13.730	ppbv #	96
41) Tetrahydrofuran	3.052	42	113618	14.254	ppbv	100
42) Bromodichloromethane	4.486	83	211145	16.123	ppbv	96
43) Methyl Methacrylate	4.878	69	107165	15.374	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	445947	14.274	ppbv	99
45) t-1,3-Dichloropropene	6.409	75	115159	15.973	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041758.D
 Acq On : 16 Dec 2024 16:41
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Dec 19 06:16:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 19 06:09:59 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	143172	15.643	ppbv	95
47) 1,1,2-Trichloroethane	6.580	97	98426	14.242	ppbv	94
48) Dibromochloromethane	7.386	129	161661	17.131	ppbv	100
49) Bromoform	9.484	173	137786	17.838	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	285467	14.735	ppbv	99
51) 2-Hexanone	7.435	43	232363	14.798	ppbv #	100
52) Tetrachloroethene	8.225	164	93120	13.675	ppbv	98
53) Toluene	6.930	91	301428	14.533	ppbv	100
54) 1,2-Dibromoethane	7.652	107	139889	14.690	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	128108	15.059	ppbv	99
57) Chlorobenzene	8.924	112	227716	13.869	ppbv	100
58) Ethyl Benzene	9.354	91	425852	14.742	ppbv	99
59) m/p-Xylene	9.552	91	678656m	29.209	ppbv	
60) o-Xylene	9.963	91	337891	14.506	ppbv	100
61) Styrene	9.869	104	165328	16.415	ppbv	100
62) Isopropylbenzene	10.539	105	506570	14.475	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	201057	13.790	ppbv	100
64) n-propylbenzene	10.989	120	129200	14.602	ppbv	97
65) tert-Butylbenzene	11.532	119	446690	14.148	ppbv	98
66) Benzyl Chloride	11.617	91	45189	16.234	ppbv	99
67) sec-Butylbenzene	11.769	105	624565	14.295	ppbv	99
69) p-Isopropyltoluene	11.927	119	528265	14.671	ppbv	99
70) n-Butylbenzene	12.283	91	525377	15.101	ppbv	100
71) 2-Chlorotoluene	10.901	91	387300	14.498	ppbv	100
72) 4-Ethyltoluene	11.125	105	409822	14.934	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	350895	15.383	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	371476	15.144	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	219506	14.036	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	222290	14.388	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	205737	13.672	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	138481	12.412	ppbv	100
79) Naphthalene	13.513	128	301006	17.611	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	161927	30.630	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	146340	15.669	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 12/20/2024
 Supervised By :Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 07:36:00 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	64976	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	174378	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	153443	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 129985 10.166 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	106780	9.236	ppbv	95
3) Chlorodifluoromethane	1.476	51	105141	9.922	ppbv	99
4) Chloromethane	1.531	50	43409	9.596	ppbv	96
5) Vinyl Chloride	1.580	62	40956	8.986	ppbv	97
6) Bromomethane	1.667	94	19590	9.109	ppbv	94
7) Chloroethane	1.703	64	17356	9.803	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	99858	9.650	ppbv	98
9) Propene	1.483	41	41721	9.084	ppbv	98
10) Heptane	4.981	43	115804	9.816	ppbv	99
11) Trichlorofluoromethane	1.877	101	115785	9.428	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	88265	9.450	ppbv	100
13) Ethanol	1.722	45	2749m	7.229	ppbv	
14) Bromoethene	1.780	108	31492	9.987	ppbv	98
15) Acetone	1.835	43	94879	7.505	ppbv	99
16) 1,3-Butadiene	1.609	39	45119	9.063	ppbv	98
17) tert-Butyl alcohol	2.039	59	122035	9.730	ppbv	100
18) 1,1-Dichloroethene	2.033	96	37466	9.568	ppbv	98
19) Isopropyl Alcohol	1.884	45	57577	7.590	ppbv	98
20) Methylene Chloride	2.062	84	32325	8.967	ppbv	96
21) Allyl Chloride	2.094	41	67596	9.859	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	42651	9.515	ppbv	97
23) Vinyl Acetate	2.463	43	51812	8.826	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	87006	9.589	ppbv	100
25) Ethyl Acetate	2.835	43	234370	9.965	ppbv	100
26) Hexane	2.826	57	87034	9.752	ppbv	97
27) Carbon Disulfide	2.149	76	85650	10.649	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	62189	8.589	ppbv	99
29) Chloroform	2.848	83	134541	9.892	ppbv	98
30) Cyclohexane	3.858	84	75274	9.912	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	91628	9.935	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	137978	9.979	ppbv	99
34) 2-Butanone	2.557	43	133939	9.547	ppbv	99
35) Carbon Tetrachloride	3.764	117	138537	11.191	ppbv	97
36) Benzene	3.658	78	176537	9.787	ppbv	99
37) 1,2-Dichloroethane	3.221	62	112037	9.982	ppbv	99
38) Trichloroethene	4.551	130	70108	9.156	ppbv	96
39) 1,2-Dichloropropane	4.318	63	63675	9.761	ppbv	95
40) 1,4-Dioxane	4.583	88	30891	9.693	ppbv #	98
41) Tetrahydrofuran	3.056	42	77472	9.857	ppbv	99
42) Bromodichloromethane	4.493	83	139717	10.821	ppbv	95
43) Methyl Methacrylate	4.881	69	70299	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.641	57	301772	9.796	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	77534	10.907	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 12/20/2024
 Supervised By : Mahesh Dadoda 12/20/2024

Quant Time: Dec 19 07:36:00 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

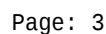
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	95812	10.617	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	66169m	9.711	ppbv	
48) Dibromochloromethane	7.389	129	105378	11.326	ppbv	100
49) Bromoform	9.487	173	88971	11.682	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	190637	9.980	ppbv	99
51) 2-Hexanone	7.441	43	155646	10.053	ppbv #	100
52) Tetrachloroethene	8.228	164	62782	9.351	ppbv	96
53) Toluene	6.933	91	199754	9.768	ppbv	99
54) 1,2-Dibromoethane	7.655	107	93439	9.952	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	85883	10.558	ppbv	99
57) Chlorobenzene	8.924	112	155257	9.888	ppbv	98
58) Ethyl Benzene	9.357	91	284770	10.308	ppbv	98
59) m/p-Xylene	9.555	91	459102m	20.669	ppbv	
60) o-Xylene	9.966	91	229517	10.304	ppbv	98
61) Styrene	9.875	104	106841	11.093	ppbv	99
62) Isopropylbenzene	10.542	105	348887	10.425	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	137547	9.865	ppbv	99
64) n-propylbenzene	10.992	120	87865	10.384	ppbv	98
65) tert-Butylbenzene	11.536	119	307790	10.194	ppbv	100
66) Benzyl Chloride	11.620	91	29398	11.054	ppbv	99
67) sec-Butylbenzene	11.772	105	430521	10.304	ppbv	99
69) p-Isopropyltoluene	11.927	119	365667	10.620	ppbv	100
70) n-Butylbenzene	12.283	91	356880	10.727	ppbv	99
71) 2-Chlorotoluene	10.904	91	264123	10.340	ppbv	99
72) 4-Ethyltoluene	11.128	105	280580	10.672	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	237804	10.902	ppbv	95
74) 1,2,4-Trimethylbenzene	11.542	105	256141	10.919	ppbv #	88
75) 1,3-Dichlorobenzene	11.610	146	149927	10.025	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	152212	10.302	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	142734	9.919	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	94671	8.873	ppbv	99
79) Naphthalene	13.516	128	202413	12.384	ppbv	100
80) Naphthalene,2-methyl-	14.461	142	102431	20.261	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	98468	11.025	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Dec 19 07:36:00 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Quant Time: Dec 19 07:36:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	95	0.00
2 T	Dichlorodifluoromethane	1.779	1.643	7.6	93	0.00
3	Chlorodifluoromethane	1.631	1.618	0.8	98	0.00
4	Chloromethane	0.696	0.668	4.0	100	0.00
5 T	Vinyl Chloride	0.701	0.630	10.1	96	0.00
6 T	Bromomethane	0.331	0.301	9.1	97	0.00
7	Chloroethane	0.272	0.267	1.8	100	0.00
8 T	Dichlorotetrafluoroethane	1.593	1.537	3.5	100	0.00
9 T	Propene	0.707	0.642	9.2	96	0.00
10 T	Heptane	1.816	1.782	1.9	99	0.00
11 T	Trichlorofluoromethane	1.890	1.782	5.7	94	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.437	1.358	5.5	96	0.00
13	Ethanol	0.059	0.042#	28.8	111	0.00
14 T	Bromoethene	0.485	0.485	0.0	97	0.00
15 T	Acetone	1.946	1.460	25.0	95	0.00
16 T	1,3-Butadiene	0.766	0.694	9.4	96	0.00
17	tert-Butyl alcohol	1.930	1.878	2.7	97	0.00
18 T	1,1-Dichloroethene	0.603	0.577	4.3	97	0.00
19 T	Isopropyl Alcohol	1.167	0.886	24.1	98	0.00
20 T	Methylene Chloride	0.555	0.497	10.5	99	0.00
21 T	Allyl Chloride	1.055	1.040	1.4	97	0.00
22 T	trans-1,2-Dichloroethene	0.690	0.656	4.9	97	0.00
23 T	Vinyl Acetate	0.903	0.797	11.7	96	0.00
24 T	1,1-Dichloroethane	1.396	1.339	4.1	97	0.00
25 T	Ethyl Acetate	3.620	3.607	0.4	100	0.00
26 T	Hexane	1.374	1.339	2.5	97	0.00
27 T	Carbon Disulfide	1.238	1.318	-6.5	93	0.00
28 T	Methyl tert-Butyl Ether	1.114	0.957	14.1	83	0.00
29 T	Chloroform	2.093	2.071	1.1	100	0.00
30 T	Cyclohexane	1.169	1.158	0.9	100	0.00
31 T	cis-1,2-Dichloroethene	1.419	1.410	0.6	100	0.00
32 T	1,1,1-Trichloroethane	2.128	2.124	0.2	99	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	95	0.00
34 T	2-Butanone	0.805	0.768	4.6	99	0.00
35 T	Carbon Tetrachloride	0.710	0.794	-11.8	100	0.00
36 T	Benzene	1.034	1.012	2.1	99	0.00
37 T	1,2-Dichloroethane	0.644	0.642	0.3	100	0.00
38 T	Trichloroethene	0.439	0.402	8.4	98	0.00
39 T	1,2-Dichloropropane	0.374	0.365	2.4	98	0.00
40 T	1,4-Dioxane	0.183	0.177	3.3	101	0.00
41 T	Tetrahydrofuran	0.451	0.444	1.6	99	0.00
42 T	Bromodichloromethane	0.740	0.801	-8.2	98	0.00
43	Methyl Methacrylate	0.394	0.403	-2.3	97	0.00
44 T	2,2,4-Trimethylpentane	1.767	1.731	2.0	98	0.00
45 T	t-1,3-Dichloropropene	0.408	0.445	-9.1	100	0.00
46 T	cis-1,3-Dichloropropene	0.518	0.549	-6.0	98	0.00
47 T	1,1,2-Trichloroethane	0.391	0.379	3.1	98	0.00
48 T	Dibromochloromethane	0.534	0.604	-13.1	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121624

Quant Time: Dec 19 07:36:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 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	0.437	0.510	-16.7	97	0.00
50 T	4-Methyl-2-Pentanone	1.095	1.093	0.2	98	0.00
51 T	2-Hexanone	0.888	0.893	-0.6	99	0.00
52 T	Tetrachloroethene	0.385	0.360	6.5	100	0.00
53 T	Toluene	1.173	1.146	2.3	97	0.00
54 T	1,2-Dibromoethane	0.538	0.536	0.4	99	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.530	0.560	-5.7	99	0.00
57 T	Chlorobenzene	1.023	1.012	1.1	100	0.00
58 T	Ethyl Benzene	1.800	1.856	-3.1	98	0.00
59 T	m/p-Xylene	1.448	1.496	-3.3	99	0.00
60 T	o-Xylene	1.452	1.496	-3.0	99	0.00
61 T	Styrene	0.628	0.696	-10.8	97	0.00
62	Isopropylbenzene	2.181	2.274	-4.3	100	0.00
63 T	1,1,2,2-Tetrachloroethane	0.909	0.896	1.4	100	0.00
64	n-propylbenzene	0.551	0.573	-4.0	101	0.00
65	tert-Butylbenzene	1.968	2.006	-1.9	100	0.00
66 T	Benzyl Chloride	0.173	0.192	-11.0	95	0.00
67	sec-Butylbenzene	2.723	2.806	-3.0	100	0.00
68 S	1-Bromo-4-Fluorobenzene	0.833	0.847	-1.7	94	0.00
69	p-Isopropyltoluene	2.244	2.383	-6.2	101	0.00
70	n-Butylbenzene	2.168	2.326	-7.3	99	0.00
71	2-Chlorotoluene	1.665	1.721	-3.4	100	0.00
72 T	4-Ethyltoluene	1.713	1.829	-6.8	99	0.00
73 T	1,3,5-Trimethylbenzene	1.422	1.550	-9.0	99	0.00
74 T	1,2,4-Trimethylbenzene	1.529	1.669	-9.2	100	0.00
75 T	1,3-Dichlorobenzene	0.975	0.977	-0.2	99	0.00
76 T	1,4-Dichlorobenzene	0.963	0.992	-3.0	100	0.00
77 T	1,2-Dichlorobenzene	0.938	0.930	0.9	101	0.00
78 T	Hexachloro-1,3-Butadiene	0.695	0.617	11.2	99	0.00
79 T	Naphthalene	1.065	1.319	-23.8	98	0.00
80 T	Naphthalene,2-methyl-	0.329	0.668	-103.0#	96	0.00
81 T	1,2,4-Trichlorobenzene	0.582	0.642	-10.3	97	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSV121624

Quant Time: Dec 17 04:07:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Dec 17 04:02:07 2024
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	95	0.00
2 T	Dichlorodifluoromethane	10.000	9.236	7.6	93	0.00
3	Chlorodifluoromethane	10.000	9.922	0.8	98	0.00
4	Chloromethane	10.000	9.596	4.0	100	0.00
5 T	Vinyl Chloride	10.000	8.986	10.1	96	0.00
6 T	Bromomethane	10.000	9.109	8.9	97	0.00
7	Chloroethane	10.000	9.803	2.0	100	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.650	3.5	100	0.00
9 T	Propene	10.000	9.084	9.2	96	0.00
10 T	Heptane	10.000	9.816	1.8	99	0.00
11 T	Trichlorofluoromethane	10.000	9.428	5.7	94	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.450	5.5	96	0.00
13	Ethanol	10.000	7.199	28.0	111	0.00
14 T	Bromoethene	10.000	9.987	0.1	97	0.00
15 T	Acetone	10.000	7.505	24.9	95	0.00
16 T	1,3-Butadiene	10.000	9.063	9.4	96	0.00
17	tert-Butyl alcohol	10.000	9.730	2.7	97	0.00
18 T	1,1-Dichloroethene	10.000	9.568	4.3	97	0.00
19 T	Isopropyl Alcohol	10.000	7.590	24.1	98	0.00
20 T	Methylene Chloride	10.000	8.967	10.3	99	0.00
21 T	Allyl Chloride	10.000	9.859	1.4	97	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.515	4.8	97	0.00
23 T	Vinyl Acetate	10.000	9.432	5.7	96	0.00
24 T	1,1-Dichloroethane	10.000	9.589	4.1	97	0.00
25 T	Ethyl Acetate	10.000	9.816	1.8	99	0.00
26 T	Hexane	10.000	9.752	2.5	97	0.00
27 T	Carbon Disulfide	10.000	10.649	-6.5	93	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.589	14.1	83	0.00
29 T	Chloroform	10.000	9.892	1.1	100	0.00
30 T	Cyclohexane	10.000	9.912	0.9	100	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.935	0.6	100	0.00
32 T	1,1,1-Trichloroethane	10.000	10.192	-1.9	99	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	95	0.00
34 T	2-Butanone	10.000	9.547	4.5	99	0.00
35 T	Carbon Tetrachloride	10.000	11.191	-11.9	100	0.00
36 T	Benzene	10.000	9.787	2.1	99	0.00
37 T	1,2-Dichloroethane	10.000	9.982	0.2	100	0.00
38 T	Trichloroethene	10.000	9.231	7.7	98	0.00
39 T	1,2-Dichloropropane	10.000	9.761	2.4	98	0.00
40 T	1,4-Dioxane	10.000	9.693	3.1	101	0.00
41 T	Tetrahydrofuran	10.000	9.857	1.4	99	0.00
42 T	Bromodichloromethane	10.000	10.820	-8.2	98	0.00
43	Methyl Methacrylate	10.000	10.229	-2.3	97	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.796	2.0	98	0.00
45 T	t-1,3-Dichloropropene	10.000	10.907	-9.1	100	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.617	-6.2	98	0.00
47 T	1,1,2-Trichloroethane	10.000	9.709	2.9	98	0.00
48 T	Dibromochloromethane	10.000	11.326	-13.3	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041759.D
 Acq On : 16 Dec 2024 18:59
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL121624

Quant Time: Dec 17 04:07:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Dec 17 04:02:07 2024
 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	11.682	-16.8	97	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.980	0.2	98	0.00
51 T	2-Hexanone	10.000	10.053	-0.5	99	0.00
52 T	Tetrachloroethene	10.000	9.351	6.5	100	0.00
53 T	Toluene	10.000	9.768	2.3	97	0.00
54 T	1,2-Dibromoethane	10.000	9.952	0.5	99	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	10.000	10.557	-5.6	99	0.00
57 T	Chlorobenzene	10.000	9.888	1.1	100	0.00
58 T	Ethyl Benzene	10.000	10.308	-3.1	98	0.00
59 T	m/p-Xylene	20.000	20.645	-3.2	99	0.00
60 T	o-Xylene	10.000	10.304	-3.0	99	0.00
61 T	Styrene	10.000	11.093	-10.9	97	0.00
62	Isopropylbenzene	10.000	10.425	-4.3	100	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.865	1.3	100	0.00
64	n-propylbenzene	10.000	10.384	-3.8	101	0.00
65	tert-Butylbenzene	10.000	10.194	-1.9	100	0.00
66 T	Benzyl Chloride	10.000	10.340	-3.4	100	0.00
67	sec-Butylbenzene	10.000	10.304	-3.0	100	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.166	-1.7	94	0.00
69	p-Isopropyltoluene	10.000	10.620	-6.2	101	0.00
70	n-Butylbenzene	10.000	10.727	-7.3	99	0.00
71	2-Chlorotoluene	10.000	10.340	-3.4	100	0.00
72 T	4-Ethyltoluene	10.000	10.672	-6.7	99	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.902	-9.0	99	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.919	-9.2	100	0.00
75 T	1,3-Dichlorobenzene	10.000	10.025	-0.3	99	0.00
76 T	1,4-Dichlorobenzene	10.000	10.302	-3.0	100	0.00
77 T	1,2-Dichlorobenzene	10.000	9.919	0.8	101	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.873	11.3	99	0.00
79 T	Naphthalene	10.000	12.384	-23.8	98	0.00
80 T	Naphthalene,2-methyl-	10.000	20.261	-102.6#	96	0.00
81 T	1,2,4-Trichlorobenzene	10.000	11.025	-10.3	97	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.: P5395 SAS No.: P5395 SDG No.: P5395

Instrument ID: MSVOA_L Calibration Date/Time: 01/03/2025 14:25

Lab File ID: VL041828.D Init. Calib. Date(s): 12/16/2024 12/16/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 13:30 16:41

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.701	0.576		-17.83	30
Heptane	1.816	1.565		-13.82	30
1,1-Dichloroethene	0.603	0.504		-16.42	30
Cyclohexane	1.169	0.958		-18.05	30
cis-1,2-Dichloroethene	1.419	1.179		-16.91	30
1,1,1-Trichloroethane	2.128	1.821		-14.43	30
2,2,4-Trimethylpentane	1.767	1.678		-5.04	30
Benzene	1.034	0.964		-6.77	30
Trichloroethene	0.439	0.368		-16.17	30
Toluene	1.173	1.020		-13.04	30
1,2-Dibromoethane	0.538	0.503		-6.51	30
Tetrachloroethene	0.385	0.307		-20.26	30
Ethyl Benzene	1.800	1.618		-10.11	30
m/p-Xylene	1.448	1.374		-5.11	30
o-Xylene	1.452	1.368		-5.78	30
1,3,5-Trimethylbenzene	1.422	1.417		-0.35	30
1,2,4-Trimethylbenzene	1.529	1.569		2.62	30
Naphthalene	1.065	1.082		1.6	30
1-Bromo-4-Fluorobenzene	0.833	0.891		6.96	30
Hexane	1.374	1.171		-14.77	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\VL010325\
 Data File : VL041828.D
 Acq On : 03 Jan 2025 14:25
 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 01/06/2025
 Supervised By : Mahesh Dadoda 01/06/2025

Quant Time: Jan 03 14:48:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	88552	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.978	114	217974	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.901	117	197278	10.000	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 175707 10.688 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	112729	7.154	ppbv	97
3) Chlorodifluoromethane	1.479	51	131672	9.118	ppbv	99
4) Chloromethane	1.538	50	55464	8.997	ppbv	96
5) Vinyl Chloride	1.586	62	50974	8.207	ppbv	96
6) Bromomethane	1.673	94	24403	8.326	ppbv	97
7) Chloroethane	1.709	64	20952	8.684	ppbv	94
8) Dichlorotetrafluoroethane	1.560	85	119960	8.506	ppbv	96
9) Propene	1.489	41	48181	7.698	ppbv	98
10) Heptane	5.007	43	138579	8.619	ppbv	100
11) Trichlorofluoromethane	1.884	101	141063	8.428	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.149	101	106483	8.365	ppbv	95
13) Ethanol	1.728	45	4051	7.816	ppbv	96
14) Bromoethene	1.787	108	35842	8.340	ppbv	98
15) Acetone	1.842	43	131762	7.647	ppbv	99
16) 1,3-Butadiene	1.615	39	59523	8.773	ppbv	95
17) tert-Butyl alcohol	2.049	59	144448	8.451	ppbv	100
18) 1,1-Dichloroethene	2.042	96	44633	8.363	ppbv	94
19) Isopropyl Alcohol	1.894	45	72908m	7.052	ppbv	
20) Methylene Chloride	2.068	84	39535	8.047	ppbv	95
21) Allyl Chloride	2.104	41	83120	8.895	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	50494	8.266	ppbv	95
23) Vinyl Acetate	2.473	43	66393	8.299	ppbv	98
24) 1,1-Dichloroethane	2.418	63	106352	8.600	ppbv	99
25) Ethyl Acetate	2.848	43	289375	9.028	ppbv	99
26) Hexane	2.839	57	103735	8.528	ppbv	93
27) Carbon Disulfide	2.159	76	101328	9.244	ppbv	95
28) Methyl tert-Butyl Ether	2.453	73	79334	8.040	ppbv	98
29) Chloroform	2.861	83	165249	8.915	ppbv	96
30) Cyclohexane	3.878	84	84824	8.196	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	104361	8.303	ppbv	99
32) 1,1,1-Trichloroethane	3.382	97	161247	8.557	ppbv	98
34) 2-Butanone	2.570	43	165560	9.441	ppbv	99
35) Carbon Tetrachloride	3.781	117	164210	10.612	ppbv	94
36) Benzene	3.674	78	210146	9.320	ppbv	99
37) 1,2-Dichloroethane	3.234	62	131882	9.400	ppbv	100
38) Trichloroethene	4.570	130	80300	8.390	ppbv	97
39) 1,2-Dichloropropane	4.337	63	77276	9.476	ppbv	97
40) 1,4-Dioxane	4.609	88	36961	9.278	ppbv #	98
41) Tetrahydrofuran	3.068	42	91011	9.264	ppbv	97
42) Bromodichloromethane	4.512	83	166985	10.346	ppbv	97
43) Methyl Methacrylate	4.907	69	76334	8.886	ppbv	98
44) 2,2,4-Trimethylpentane	4.664	57	365727	9.498	ppbv	98
45) t-1,3-Dichloropropene	6.444	75	77404	8.711	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041828.D
 Acq On : 03 Jan 2025 14:25
 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 01/06/2025
 Supervised By : Mahesh Dadoda 01/06/2025

Quant Time: Jan 03 14:48:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	99148	8.789	ppbv	97
47) 1,1,2-Trichloroethane	6.613	97	78623	9.231	ppbv	96
48) Dibromochloromethane	7.409	129	123832	10.647	ppbv	98
49) Bromoform	9.503	173	100968	10.606	ppbv	99
50) 4-Methyl-2-Pentanone	5.784	43	223795	9.373	ppbv	99
51) 2-Hexanone	7.461	43	175298	9.058	ppbv #	97
52) Tetrachloroethene	8.247	164	66967	7.979	ppbv	92
53) Toluene	6.959	91	222427	8.701	ppbv	100
54) 1,2-Dibromoethane	7.674	107	109597	9.338	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	103697	9.915	ppbv	99
57) Chlorobenzene	8.940	112	185476	9.188	ppbv	98
58) Ethyl Benzene	9.373	91	319181	8.987	ppbv	98
59) m/p-Xylene	9.568	91	542115m	18.983	ppbv	
60) o-Xylene	9.982	91	269868	9.423	ppbv	99
61) Styrene	9.888	104	114682	9.261	ppbv	98
62) Isopropylbenzene	10.555	105	395709	9.197	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	174915	9.758	ppbv	100
64) n-propylbenzene	11.005	120	102103	9.386	ppbv	98
65) tert-Butylbenzene	11.545	119	360527	9.287	ppbv	99
66) Benzyl Chloride	11.633	91	30092	8.800	ppbv	98
67) sec-Butylbenzene	11.781	105	511842	9.528	ppbv	99
69) p-Isopropyltoluene	11.940	119	421948	9.531	ppbv	99
70) n-Butylbenzene	12.296	91	415898	9.723	ppbv	99
71) 2-Chlorotoluene	10.917	91	299381	9.116	ppbv	99
72) 4-Ethyltoluene	11.141	105	323292	9.564	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	279499	9.966	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	309494	10.262	ppbv	99
75) 1,3-Dichlorobenzene	11.623	146	177816	9.248	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	179214	9.435	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	170641	9.223	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	99498	7.253	ppbv	99
79) Naphthalene	13.529	128	213428	10.156	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	85446	13.146	ppbv	100
81) 1,2,4-Trichlorobenzene	13.455	180	100592	8.760	ppbv	99

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

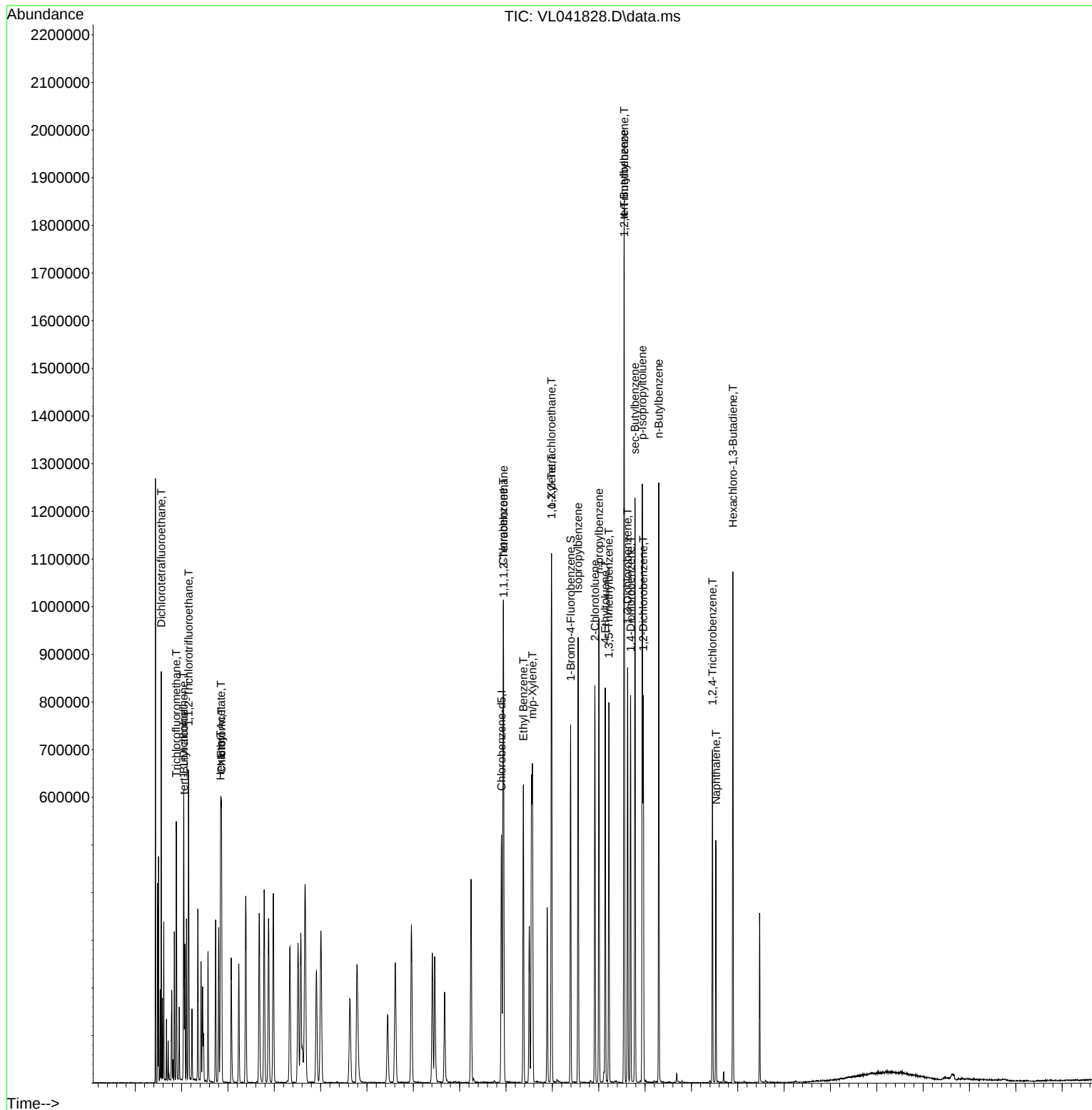
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
Data File : VL041828.D
Acq On : 03 Jan 2025 14:25
Operator : SY/MD
Sample : VSTDCCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025

Quant Time: Jan 03 14:48:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041828.D
 Acq On : 03 Jan 2025 14:25
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jan 03 14:48:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 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	129	0.02
2 T	Dichlorodifluoromethane	1.779	1.273	28.4	98	0.00
3	Chlorodifluoromethane	1.631	1.487	8.8	123	0.00
4	Chloromethane	0.696	0.626	10.1	128	0.00
5 T	Vinyl Chloride	0.701	0.576	17.8	119	0.00
6 T	Bromomethane	0.331	0.276	16.6	120	0.00
7	Chloroethane	0.272	0.237	12.9	120	0.00
8 T	Dichlorotetrafluoroethane	1.593	1.355	14.9	120	0.00
9 T	Propene	0.707	0.544	23.1	111	0.00
10 T	Heptane	1.816	1.565	13.8	118	0.03
11 T	Trichlorofluoromethane	1.890	1.593	15.7	115	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.437	1.202	16.4	116	0.01
13	Ethanol	0.059	0.046#	22.0	163#	0.00
14 T	Bromoethene	0.485	0.405	16.5	110	0.00
15 T	Acetone	1.946	1.488	23.5	131	0.00
16 T	1,3-Butadiene	0.766	0.672	12.3	127	0.00
17	tert-Butyl alcohol	1.930	1.631	15.5	115	0.01
18 T	1,1-Dichloroethene	0.603	0.504	16.4	115	0.00
19 T	Isopropyl Alcohol	1.167	0.823	29.5	124	0.00
20 T	Methylene Chloride	0.555	0.446	19.6	121	0.00
21 T	Allyl Chloride	1.055	0.939	11.0	120	0.00
22 T	trans-1,2-Dichloroethene	0.690	0.570	17.4	115	0.01
23 T	Vinyl Acetate	0.903	0.750	16.9	122	0.02
24 T	1,1-Dichloroethane	1.396	1.201	14.0	118	0.01
25 T	Ethyl Acetate	3.620	3.268	9.7	123	0.02
26 T	Hexane	1.374	1.171	14.8	116	0.02
27 T	Carbon Disulfide	1.238	1.144	7.6	110	0.00
28 T	Methyl tert-Butyl Ether	1.114	0.896	19.6	105	0.02
29 T	Chloroform	2.093	1.866	10.8	122	0.02
30 T	Cyclohexane	1.169	0.958	18.0	113	0.02
31 T	cis-1,2-Dichloroethene	1.419	1.179	16.9	114	0.01
32 T	1,1,1-Trichloroethane	2.128	1.821	14.4	116	0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	119	0.02
34 T	2-Butanone	0.805	0.760	5.6	122	0.02
35 T	Carbon Tetrachloride	0.710	0.753	-6.1	118	0.02
36 T	Benzene	1.034	0.964	6.8	117	0.02
37 T	1,2-Dichloroethane	0.644	0.605	6.1	118	0.02
38 T	Trichloroethene	0.439	0.368	16.2	113	0.03
39 T	1,2-Dichloropropane	0.374	0.355	5.1	119	0.03
40 T	1,4-Dioxane	0.183	0.170	7.1	121	0.03
41 T	Tetrahydrofuran	0.451	0.418	7.3	116	0.02
42 T	Bromodichloromethane	0.740	0.766	-3.5	117	0.03
43	Methyl Methacrylate	0.394	0.350	11.2	105	0.03
44 T	2,2,4-Trimethylpentane	1.767	1.678	5.0	119	0.03
45 T	t-1,3-Dichloropropene	0.408	0.355	13.0	100	0.03
46 T	cis-1,3-Dichloropropene	0.518	0.455	12.2	101	0.04
47 T	1,1,2-Trichloroethane	0.391	0.361	7.7	116	0.04
48 T	Dibromochloromethane	0.534	0.568	-6.4	114	0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041828.D
 Acq On : 03 Jan 2025 14:25
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jan 03 14:48:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 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	0.437	0.463	-5.9	110	0.02
50 T	4-Methyl-2-Pentanone	1.095	1.027	6.2	115	0.04
51 T	2-Hexanone	0.888	0.804	9.5	111	0.03
52 T	Tetrachloroethene	0.385	0.307	20.3	106	0.03
53 T	Toluene	1.173	1.020	13.0	108	0.03
54 T	1,2-Dibromoethane	0.538	0.503	6.5	117	0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	121	0.02
56	1,1,1,2-Tetrachloroethane	0.530	0.526	0.8	119	0.02
57 T	Chlorobenzene	1.023	0.940	8.1	119	0.02
58 T	Ethyl Benzene	1.800	1.618	10.1	110	0.02
59 T	m/p-Xylene	1.448	1.374	5.1	117	0.02
60 T	o-Xylene	1.452	1.368	5.8	116	0.02
61 T	Styrene	0.628	0.581	7.5	104	0.02
62	Isopropylbenzene	2.181	2.006	8.0	113	0.02
63 T	1,1,2,2-Tetrachloroethane	0.909	0.887	2.4	127	0.02
64	n-propylbenzene	0.551	0.518	6.0	117	0.02
65	tert-Butylbenzene	1.968	1.828	7.1	117	0.02
66 T	Benzyl Chloride	0.173	0.153	11.6	97	0.02
67	sec-Butylbenzene	2.723	2.595	4.7	119	0.01
68 S	1-Bromo-4-Fluorobenzene	0.833	0.891	-7.0	127	0.02
69	p-Isopropyltoluene	2.244	2.139	4.7	116	0.02
70	n-Butylbenzene	2.168	2.108	2.8	116	0.02
71	2-Chlorotoluene	1.665	1.518	8.8	113	0.02
72 T	4-Ethyltoluene	1.713	1.639	4.3	114	0.02
73 T	1,3,5-Trimethylbenzene	1.422	1.417	0.4	117	0.02
74 T	1,2,4-Trimethylbenzene	1.529	1.569	-2.6	121	0.02
75 T	1,3-Dichlorobenzene	0.975	0.901	7.6	117	0.02
76 T	1,4-Dichlorobenzene	0.963	0.908	5.7	118	0.02
77 T	1,2-Dichlorobenzene	0.938	0.865	7.8	121	0.02
78 T	Hexachloro-1,3-Butadiene	0.695	0.504	27.5	104	0.01
79 T	Naphthalene	1.065	1.082	-1.6	104	0.02
80 T	Naphthalene,2-methyl-	0.329	0.433	-31.6#	80	0.01
81 T	1,2,4-Trichlorobenzene	0.582	0.510	12.4	99	0.02

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041828.D
 Acq On : 03 Jan 2025 14:25
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jan 03 14:48:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 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	129	0.02
2 T	Dichlorodifluoromethane	10.000	7.154	28.5	98	0.00
3	Chlorodifluoromethane	10.000	9.118	8.8	123	0.00
4	Chloromethane	10.000	8.997	10.0	128	0.00
5 T	Vinyl Chloride	10.000	8.207	17.9	119	0.00
6 T	Bromomethane	10.000	8.326	16.7	120	0.00
7	Chloroethane	10.000	8.684	13.2	120	0.00
8 T	Dichlorotetrafluoroethane	10.000	8.506	14.9	120	0.00
9 T	Propene	10.000	7.698	23.0	111	0.00
10 T	Heptane	10.000	8.619	13.8	118	0.03
11 T	Trichlorofluoromethane	10.000	8.428	15.7	115	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.365	16.3	116	0.01
13	Ethanol	10.000	7.816	21.8	163	0.00
14 T	Bromoethene	10.000	8.340	16.6	110	0.00
15 T	Acetone	10.000	7.647	23.5	131	0.00
16 T	1,3-Butadiene	10.000	8.773	12.3	127	0.00
17	tert-Butyl alcohol	10.000	8.451	15.5	115	0.01
18 T	1,1-Dichloroethene	10.000	8.363	16.4	115	0.00
19 T	Isopropyl Alcohol	10.000	7.052	29.5	124	0.00
20 T	Methylene Chloride	10.000	8.047	19.5	121	0.00
21 T	Allyl Chloride	10.000	8.895	11.1	120	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.266	17.3	115	0.01
23 T	Vinyl Acetate	10.000	8.299	17.0	122	0.02
24 T	1,1-Dichloroethane	10.000	8.600	14.0	118	0.01
25 T	Ethyl Acetate	10.000	9.028	9.7	123	0.02
26 T	Hexane	10.000	8.528	14.7	116	0.02
27 T	Carbon Disulfide	10.000	9.244	7.6	110	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.040	19.6	105	0.02
29 T	Chloroform	10.000	8.915	10.9	122	0.02
30 T	Cyclohexane	10.000	8.196	18.0	113	0.02
31 T	cis-1,2-Dichloroethene	10.000	8.303	17.0	114	0.01
32 T	1,1,1-Trichloroethane	10.000	8.557	14.4	116	0.02
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	119	0.02
34 T	2-Butanone	10.000	9.441	5.6	122	0.02
35 T	Carbon Tetrachloride	10.000	10.612	-6.1	118	0.02
36 T	Benzene	10.000	9.320	6.8	117	0.02
37 T	1,2-Dichloroethane	10.000	9.400	6.0	118	0.02
38 T	Trichloroethene	10.000	8.390	16.1	113	0.03
39 T	1,2-Dichloropropane	10.000	9.476	5.2	119	0.03
40 T	1,4-Dioxane	10.000	9.278	7.2	121	0.03
41 T	Tetrahydrofuran	10.000	9.264	7.4	116	0.02
42 T	Bromodichloromethane	10.000	10.346	-3.5	117	0.03
43	Methyl Methacrylate	10.000	8.886	11.1	105	0.03
44 T	2,2,4-Trimethylpentane	10.000	9.498	5.0	119	0.03
45 T	t-1,3-Dichloropropene	10.000	8.711	12.9	100	0.03
46 T	cis-1,3-Dichloropropene	10.000	8.789	12.1	101	0.04
47 T	1,1,2-Trichloroethane	10.000	9.231	7.7	116	0.04
48 T	Dibromochloromethane	10.000	10.647	-6.5	114	0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041828.D
 Acq On : 03 Jan 2025 14:25
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jan 03 14:48:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	10.606	-6.1	110	0.02
50 T	4-Methyl-2-Pentanone	10.000	9.373	6.3	115	0.04
51 T	2-Hexanone	10.000	9.058	9.4	111	0.03
52 T	Tetrachloroethene	10.000	7.979	20.2	106	0.03
53 T	Toluene	10.000	8.701	13.0	108	0.03
54 T	1,2-Dibromoethane	10.000	9.338	6.6	117	0.03
55 I	Chlorobenzene-d5	10.000	10.000	0.0	121	0.02
56	1,1,1,2-Tetrachloroethane	10.000	9.915	0.9	119	0.02
57 T	Chlorobenzene	10.000	9.188	8.1	119	0.02
58 T	Ethyl Benzene	10.000	8.987	10.1	110	0.02
59 T	m/p-Xylene	20.000	18.983	5.1	117	0.02
60 T	o-Xylene	10.000	9.423	5.8	116	0.02
61 T	Styrene	10.000	9.261	7.4	104	0.02
62	Isopropylbenzene	10.000	9.197	8.0	113	0.02
63 T	1,1,2,2-Tetrachloroethane	10.000	9.758	2.4	127	0.02
64	n-propylbenzene	10.000	9.386	6.1	117	0.02
65	tert-Butylbenzene	10.000	9.287	7.1	117	0.02
66 T	Benzyl Chloride	10.000	8.800	12.0	97	0.02
67	sec-Butylbenzene	10.000	9.528	4.7	119	0.01
68 S	1-Bromo-4-Fluorobenzene	10.000	10.688	-6.9	127	0.02
69	p-Isopropyltoluene	10.000	9.531	4.7	116	0.02
70	n-Butylbenzene	10.000	9.723	2.8	116	0.02
71	2-Chlorotoluene	10.000	9.116	8.8	113	0.02
72 T	4-Ethyltoluene	10.000	9.564	4.4	114	0.02
73 T	1,3,5-Trimethylbenzene	10.000	9.966	0.3	117	0.02
74 T	1,2,4-Trimethylbenzene	10.000	10.262	-2.6	121	0.02
75 T	1,3-Dichlorobenzene	10.000	9.248	7.5	117	0.02
76 T	1,4-Dichlorobenzene	10.000	9.435	5.6	118	0.02
77 T	1,2-Dichlorobenzene	10.000	9.223	7.8	121	0.02
78 T	Hexachloro-1,3-Butadiene	10.000	7.253	27.5	104	0.01
79 T	Naphthalene	10.000	10.156	-1.6	104	0.02
80 T	Naphthalene,2-methyl-	10.000	13.146	-31.5#	80	0.01
81 T	1,2,4-Trichlorobenzene	10.000	8.760	12.4	99	0.02

(#) = Out of Range

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



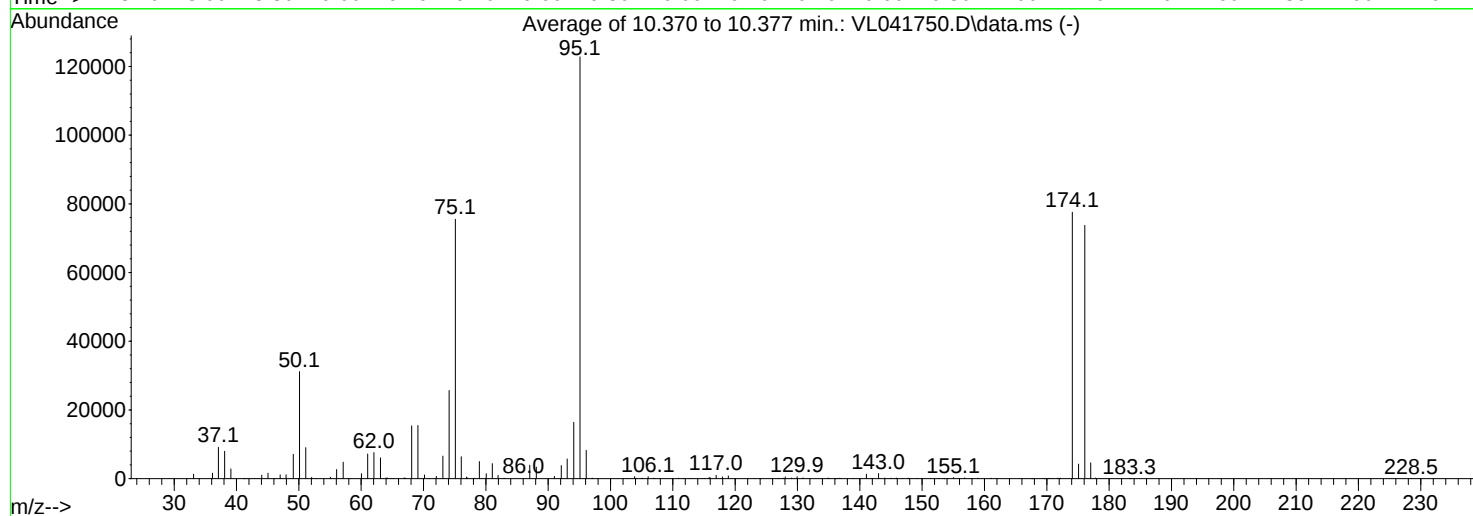
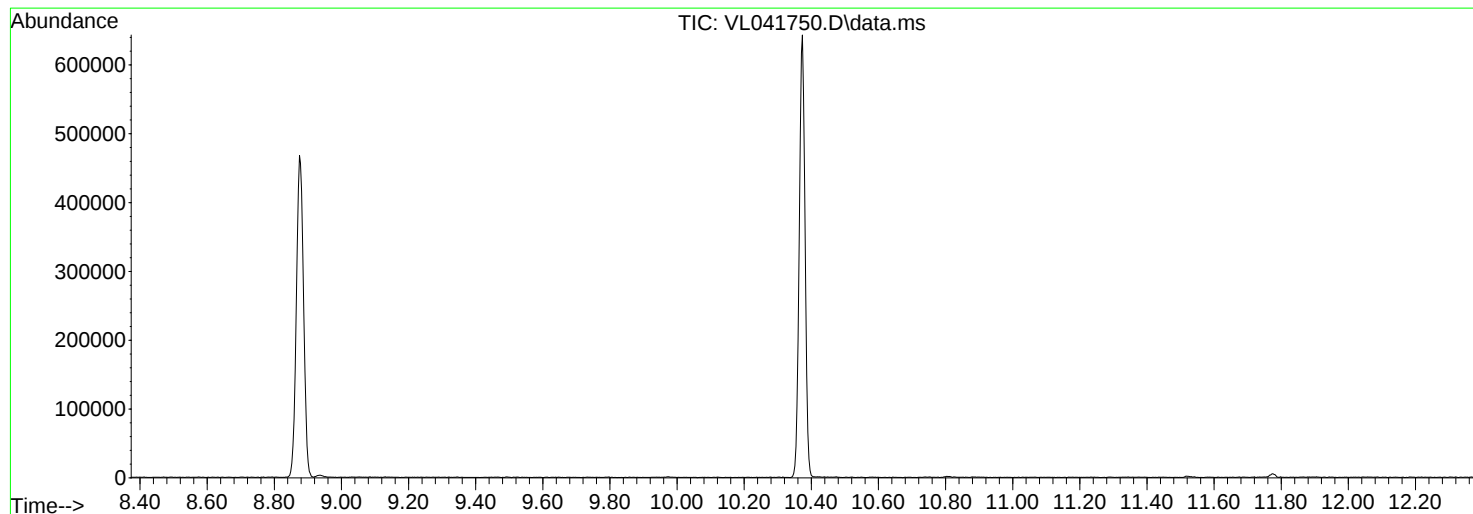
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
Data File : VL041750.D
Acq On : 16 Dec 2024 12:02
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\VL121624AIR.M
Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Dec 19 07:32:09 2024



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3162

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	25.4	31157	PASS
75	95	30	66	61.5	75504	PASS
95	95	100	100	100.0	122797	PASS
96	95	5	9	6.7	8239	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.2	77565	PASS
175	174	4	9	5.5	4234	PASS
176	174	93	101	95.0	73717	PASS
177	176	5	9	6.3	4630	PASS

Average of 10.370 to 10.377 min.: VL041750.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1322	44.05	1016	56.05	2649	65.20	61
36.15	1587	45.05	1575	57.10	4784	66.90	24
37.10	9134	46.15	66	57.90	94	67.10	12
38.10	7991	47.00	1132	58.30	32	68.10	1535
39.10	2839	47.95	1114	60.05	1454	69.10	15463
40.00	41	49.10	7069	61.05	7192	70.15	1071
41.20	26	50.10	31157	62.05	7600	70.90	28
41.70	49	51.10	9016	63.10	6081	72.05	651
42.35	60	52.05	392	64.00	224	73.10	6573
42.95	115	52.80	56	64.20	202	74.10	25661
43.40	59	55.05	422	64.80	43	75.10	75504

Average of 10.370 to 10.377 min.: VL041750.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.05	6364	87.05	3899	103.85	544	113.00	66
76.90	489	88.10	3363	104.10	151	114.70	31
77.10	175	91.00	654	104.90	42	115.15	90
78.10	122	92.10	3845	105.10	151	115.80	221
78.95	4994	93.05	5724	106.05	566	115.95	358
80.05	1429	94.10	16382	106.95	120	116.95	974
81.05	4383	95.10	122797	107.20	40	117.95	511
81.95	969	96.10	8239	109.95	51	118.90	777
82.90	123	97.00	110	110.95	130	123.10	50
83.10	33	97.15	142	111.70	88	124.00	17
86.05	99	102.70	65	112.65	61	126.90	78

Average of 10.370 to 10.377 min.: VL041750.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
127.70	134	138.95	48	147.70	72	158.95	148
128.05	509	140.00	35	147.85	142	161.05	144
129.05	205	141.05	1317	149.15	97	167.60	18
129.95	553	141.80	73	149.90	118	169.60	17
130.90	245	142.00	67	151.40	43	169.90	39
134.90	170	143.00	1489	152.70	31	170.30	41
135.10	61	144.00	186	153.50	25	170.50	88
136.10	17	145.00	136	154.15	44	170.95	118
136.50	51	145.60	39	155.05	332	171.75	129
136.80	153	145.90	181	156.85	228	172.00	95
137.00	50	146.80	77	158.00	44	172.20	138

Average of 10.370 to 10.377 min.: VL041750.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.10	77565						
175.10	4234						
176.10	73717						
177.05	4630						
177.85	181						
183.30	17						
228.50	47						

Instrument :

MSVOA_L

ClientSampleId :

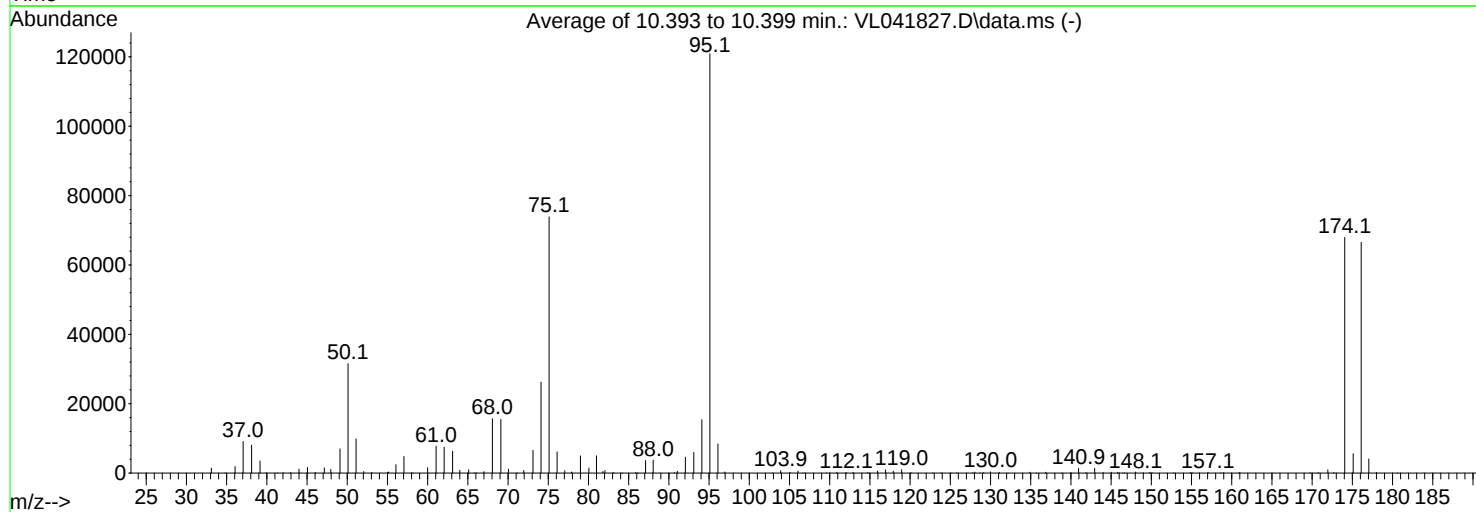
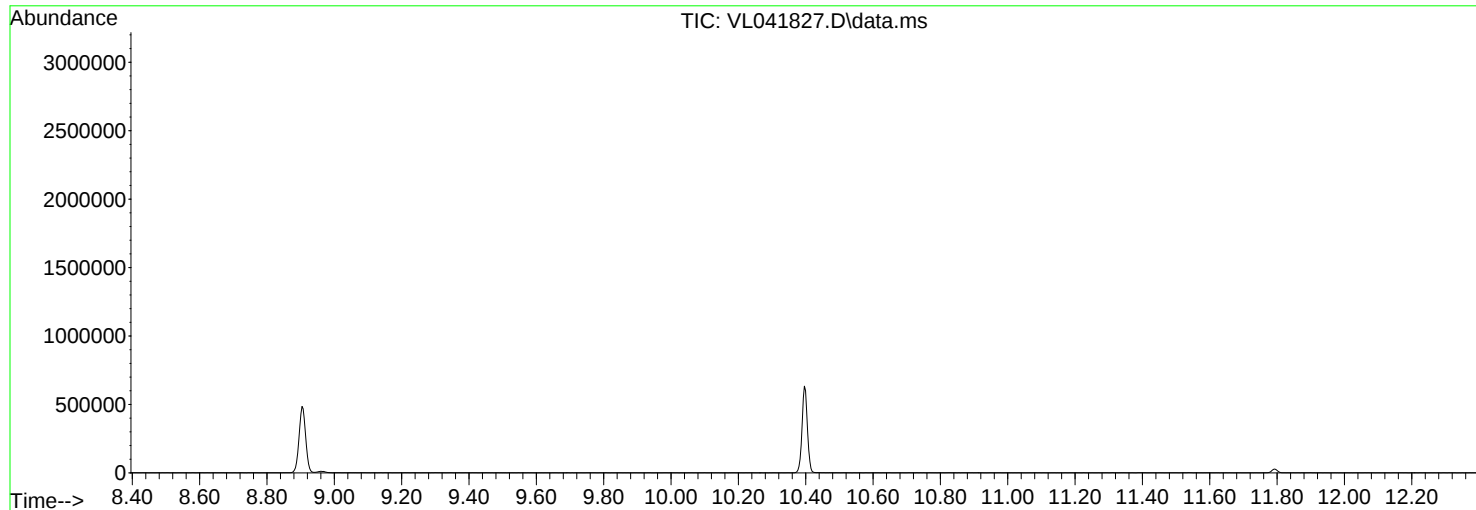
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
Data File : VL041827.D
Acq On : 03 Jan 2025 13:33
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\VL121624AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Dec 19 07:32:09 2024



AutoFind: Scans 3184, 3185, 3186; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	26.1	31573	PASS
75	95	30	66	61.1	73861	PASS
95	95	100	100	100.0	120907	PASS
96	95	5	9	6.9	8403	PASS
173	174	0.00	2	0.3	187	PASS
174	95	50	120	56.2	67971	PASS
175	174	4	9	8.2	5580	PASS
176	174	93	101	97.9	66528	PASS
177	176	5	9	6.1	4081	PASS

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1428	45.05	1633	56.05	2441	66.10	24
34.80	24	46.05	180	57.05	4784	67.00	435
36.05	1891	47.15	1511	58.00	108	68.05	1569
37.05	9133	47.95	1041	58.20	34	69.10	1545
38.10	8041	49.10	7008	60.00	1548	70.05	1122
39.15	3489	50.10	31573	61.05	7760	71.15	51
39.90	66	51.10	9839	62.05	7481	71.95	752
41.35	45	52.05	443	63.10	6334	73.10	6542
42.05	84	53.05	225	64.00	814	74.10	26208
42.95	147	55.00	178	65.10	970	75.10	73861
44.00	1138	55.15	314	65.80	50	76.10	6120

Average of 10.393 to 10.399 min.: VL041827.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.05	693	87.10	3611	103.90	681	115.95	576
77.90	317	88.05	3721	105.05	221	116.95	938
79.00	4962	90.70	137	106.05	602	117.90	565
80.05	1460	91.05	530	106.70	18	118.95	967
81.00	4982	92.05	4567	106.95	60	120.15	44
81.80	469	93.10	5969	109.60	38	122.80	32
82.05	718	94.10	15422	110.00	60	123.85	61
83.15	142	95.10	120907	110.85	133	125.20	23
84.20	56	96.10	8403	112.05	160	125.80	59
85.85	98	96.95	325	112.90	190	127.80	99
86.15	99	102.85	58	114.75	166	128.05	295

Average of 10.393 to 10.399 min.: VL041827.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.70	41	141.85	120	149.90	52	169.75	55
129.15	109	142.95	1373	150.10	18	170.60	18
130.00	377	144.00	111	152.80	58	170.80	80
131.10	175	145.05	255	154.85	137	171.95	924
132.20	23	145.80	182	155.10	49	172.70	187
134.90	259	146.00	72	156.00	24	174.05	67971
135.70	24	146.40	20	157.05	206	175.10	5580
136.85	250	146.65	106	158.65	106	176.10	66528
138.80	24	148.05	272	159.00	101	177.05	4081
140.00	67	149.00	70	160.80	19	178.00	179
140.95	1374	149.75	71	161.00	159	180.60	23

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	75-02 51st Avenue Elmhurst, NY	Date Received:	
Client Sample ID:	VL0103ABL01	SDG No.:	P5395
Lab Sample ID:	VL0103ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041829.D	1		01/03/25 15:48	VL010325

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
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	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
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.70			65 - 135	97%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	85700		2.803			
540-36-3	1,4-Difluorobenzene	204000		3.981			
3114-55-4	Chlorobenzene-d5	177000		8.904			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041829.D
 Acq On : 03 Jan 2025 15:48
 Operator : SY/MD
 Sample : VL0103ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0103ABL01

Quant Time: Jan 03 16:11:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	85723	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	203573	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	176522	10.000	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	142384	9.679	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%

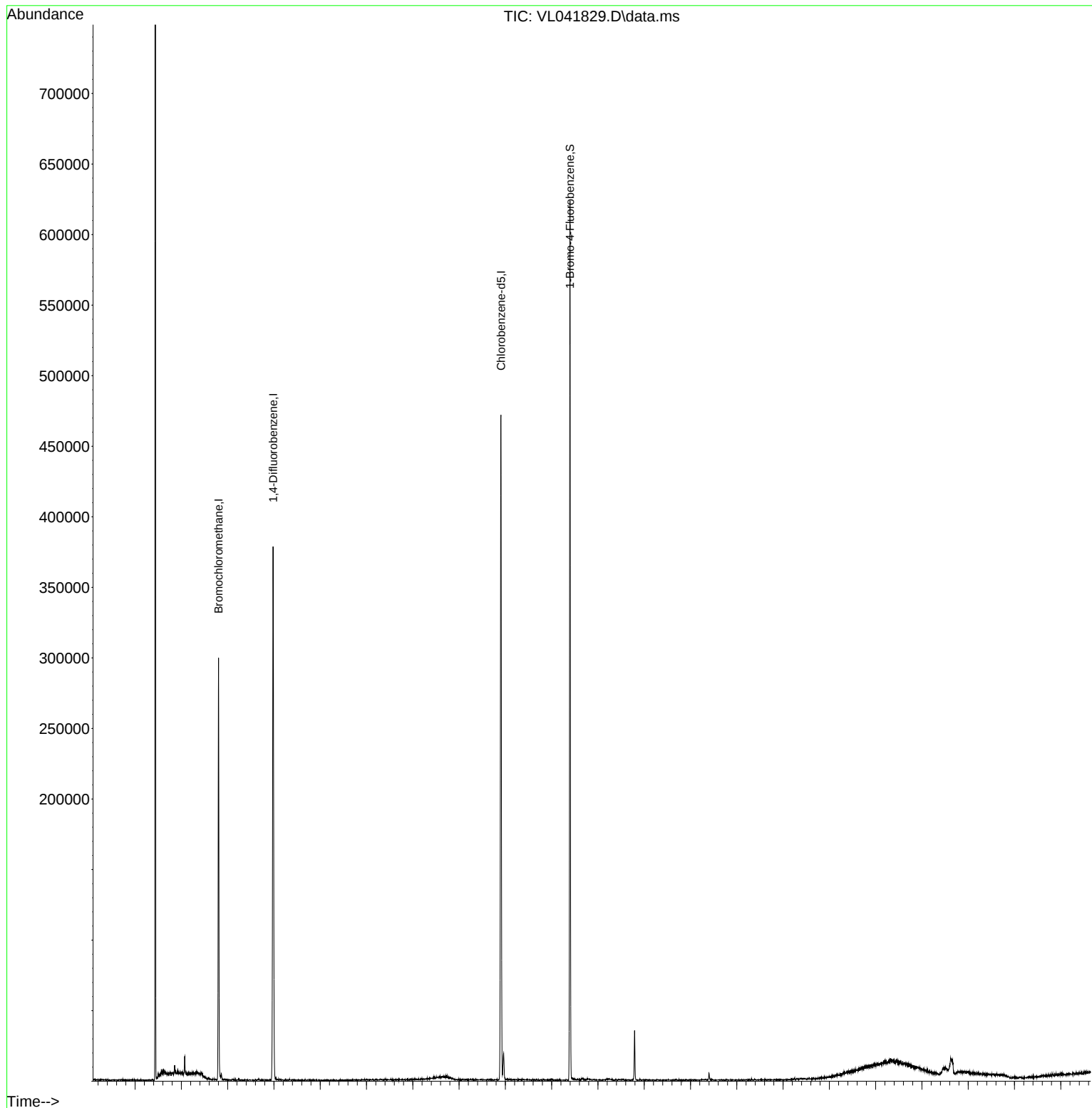
Target Compounds	Qvalue

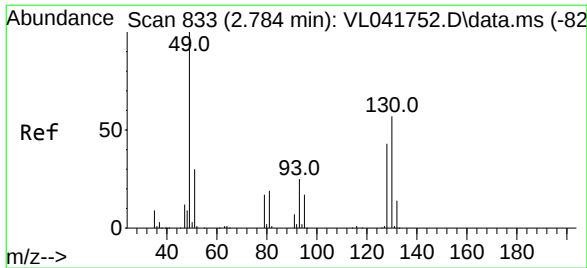
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
Data File : VL041829.D
Acq On : 03 Jan 2025 15:48
Operator : SY/MD
Sample : VL0103ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0103ABL01

Quant Time: Jan 03 16:11:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

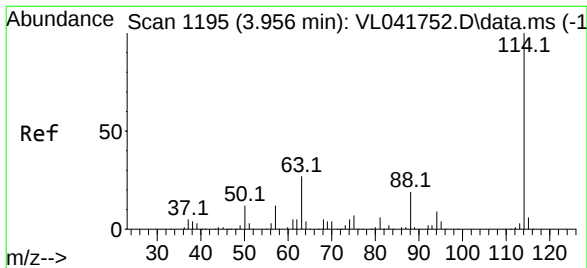
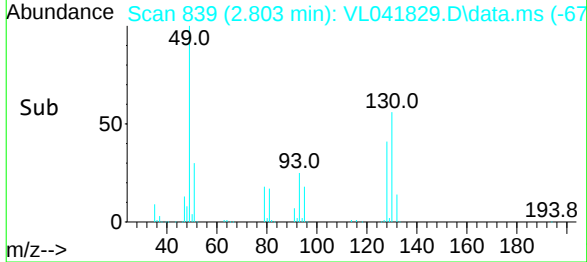
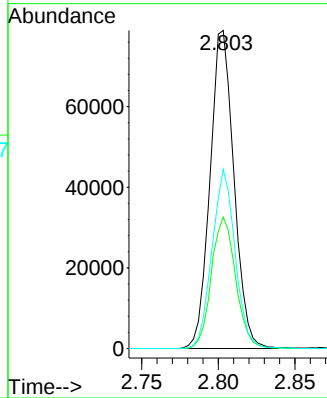
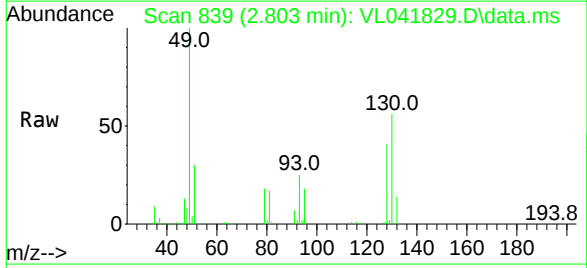




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.803 min Scan# 833
Delta R.T. 0.019 min
Lab File: VL041829.D
Acq: 03 Jan 2025 15:48

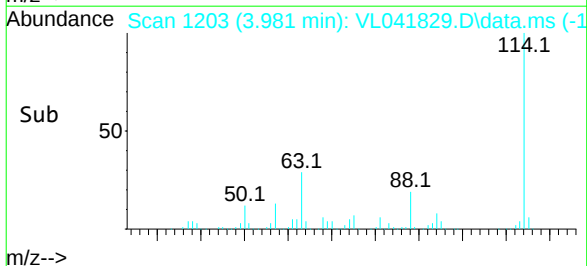
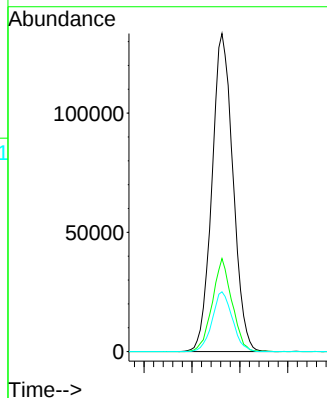
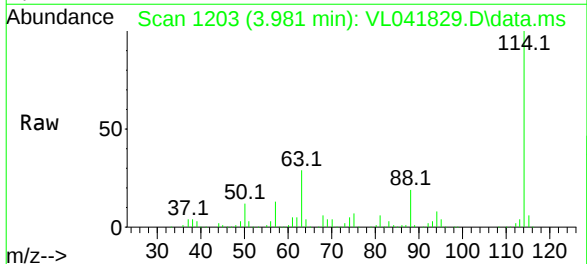
Instrument :
MSVOA_L
ClientSampleId :
VL0103ABL01

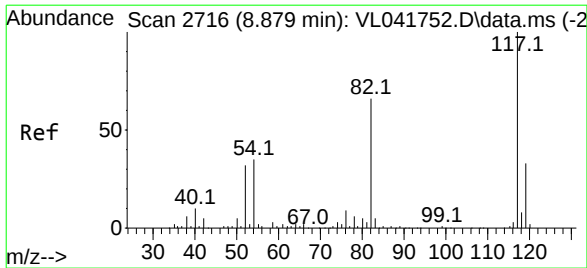
Tgt Ion: 49 Resp: 85723
Ion Ratio Lower Upper
49 100
128 41.8 21.6 64.6
130 54.3 28.3 85.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. 0.026 min
Lab File: VL041829.D
Acq: 03 Jan 2025 15:48

Tgt Ion: 114 Resp: 203573
Ion Ratio Lower Upper
114 100
63 27.4 21.8 32.8
88 18.1 14.8 22.2





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.904 min Scan# 2716

Delta R.T. 0.026 min

Lab File: VL041829.D

Acq: 03 Jan 2025 15:48

Instrument :

MSVOA_1

ClientSampleId :

VL0103ABL01

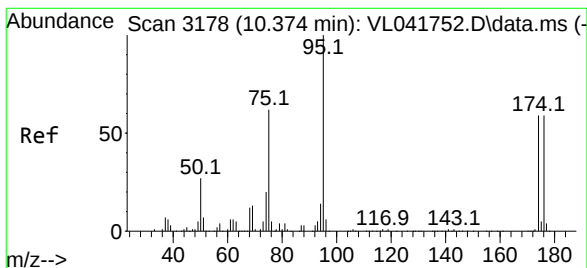
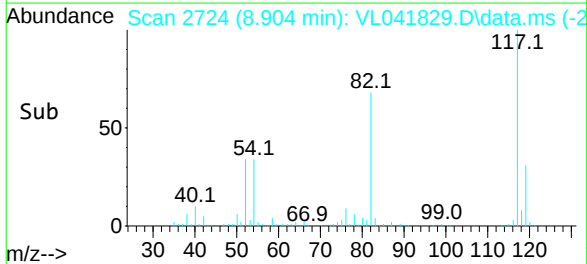
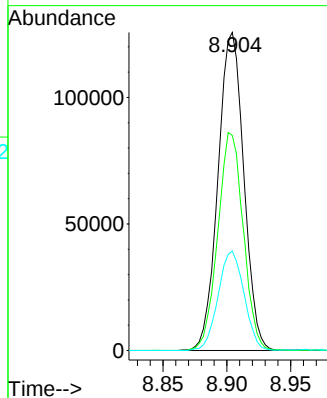
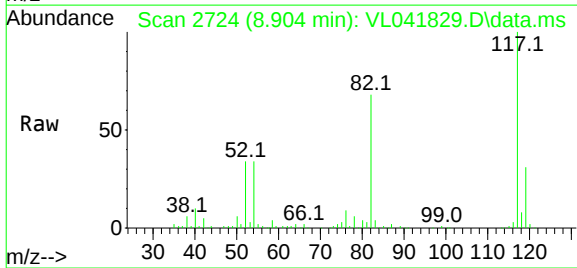
Tgt Ion:117 Resp: 176522

Ion Ratio Lower Upper

117 100

82 67.7 53.8 80.8

119 31.7 26.7 40.1



#68

1-Bromo-4-Fluorobenzene

Concen: 9.679 ppbv

RT: 10.396 min Scan# 3185

Delta R.T. 0.022 min

Lab File: VL041829.D

Acq: 03 Jan 2025 15:48

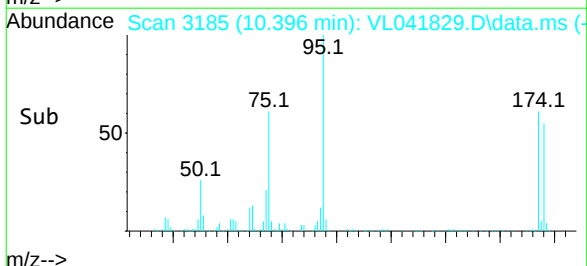
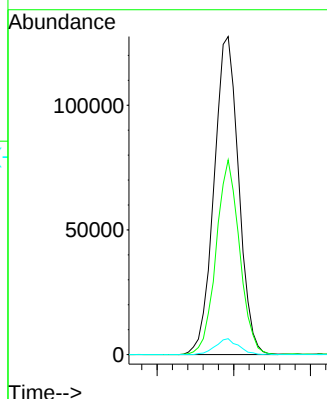
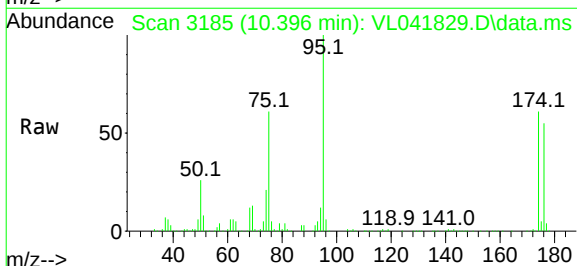
Tgt Ion: 95 Resp: 142384

Ion Ratio Lower Upper

95 100

174 58.5 47.6 71.4

175 4.7 3.7 5.5



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	75-02 51st Avenue Elmhurst, NY	Date Received:	
Client Sample ID:	VL0103ABS01	SDG No.:	P5395
Lab Sample ID:	VL0103ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041835.D	1		01/03/25 20:18	VL010325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	8.50	21.7		0.030	0.080	ug/m3
142-82-5	Heptane	8.70	35.6		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.20	32.5		0.56	1.98	ug/m3
110-82-7	Cyclohexane	8.30	28.6		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.30	32.9		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	8.50	46.4		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.4	48.6		0.47	2.34	ug/m3
71-43-2	Benzene	9.70	31.0		0.29	1.60	ug/m3
79-01-6	Trichloroethene	8.70	46.8		0.11	0.16	ug/m3
108-88-3	Toluene	9.10	34.3		0.41	1.88	ug/m3
106-93-4	1,2-Dibromoethane	9.70	74.5		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	8.50	57.6		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	9.70	42.1		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	20.6	89.5		0.91	4.34	ug/m3
95-47-6	o-Xylene	10.2	44.3		0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.7	52.6		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	11.1	54.6		0.39	2.46	ug/m3
91-20-3	Naphthalene	11.0	57.7		0.42	0.52	ug/m3
110-54-3	Hexane	8.70	30.7		0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	85300		2.803			
540-36-3	1,4-Difluorobenzene	203000		3.981			
3114-55-4	Chlorobenzene-d5	177000		8.904			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041835.D
 Acq On : 03 Jan 2025 20:18
 Operator : SY/MD
 Sample : VL0103ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0103ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/06/2025
 Supervised By : Mahesh Dadoda 01/06/2025

Quant Time: Jan 03 20:46:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	85315	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.981	114	202909	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.904	117	176917	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 153428 10.407 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	109361	7.204	ppbv	96
3) Chlorodifluoromethane	1.483	51	128198	9.214	ppbv	99
4) Chloromethane	1.538	50	53236	8.963	ppbv	100
5) Vinyl Chloride	1.586	62	50986	8.520	ppbv	98
6) Bromomethane	1.674	94	24129	8.544	ppbv	97
7) Chloroethane	1.712	64	20273	8.721	ppbv	98
8) Dichlorotetrafluoroethane	1.560	85	116328	8.561	ppbv	95
9) Propene	1.489	41	46179	7.658	ppbv	98
10) Heptane	5.011	43	135222	8.730	ppbv	99
11) Trichlorofluoromethane	1.884	101	136615	8.472	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.149	101	102983	8.397	ppbv	97
13) Ethanol	1.751	45	4280m	8.571	ppbv	
14) Bromoethene	1.790	108	34390	8.306	ppbv	97
15) Acetone	1.852	43	134928	8.128	ppbv	98
16) 1,3-Butadiene	1.615	39	56888	8.703	ppbv	97
17) tert-Butyl alcohol	2.062	59	143769	8.730	ppbv	99
18) 1,1-Dichloroethene	2.043	96	42000	8.169	ppbv	93
19) Isopropyl Alcohol	1.913	45	75903	7.620	ppbv #	38
20) Methylene Chloride	2.072	84	39545	8.355	ppbv	97
21) Allyl Chloride	2.107	41	82649	9.180	ppbv	99
22) trans-1,2-Dichloroethene	2.353	96	48293	8.205	ppbv	95
23) Vinyl Acetate	2.476	43	61568	7.988	ppbv #	96
24) 1,1-Dichloroethane	2.421	63	104178	8.744	ppbv	99
25) Ethyl Acetate	2.855	43	282202	9.139	ppbv	100
26) Hexane	2.842	57	102267	8.727	ppbv	93
27) Carbon Disulfide	2.162	76	92899	8.797	ppbv	95
28) Methyl tert-Butyl Ether	2.454	73	71880	7.561	ppbv	99
29) Chloroform	2.865	83	163652	9.164	ppbv	99
30) Cyclohexane	3.878	84	82369	8.261	ppbv	98
31) cis-1,2-Dichloroethene	2.735	61	100390	8.290	ppbv	97
32) 1,1,1-Trichloroethane	3.389	97	153995	8.482	ppbv	98
34) 2-Butanone	2.577	43	165937	10.165	ppbv	98
35) Carbon Tetrachloride	3.784	117	157638	10.944	ppbv	99
36) Benzene	3.680	78	203910	9.715	ppbv	97
37) 1,2-Dichloroethane	3.237	62	129207	9.893	ppbv	99
38) Trichloroethene	4.577	130	77098	8.653	ppbv	95
39) 1,2-Dichloropropane	4.341	63	75612	9.961	ppbv	94
40) 1,4-Dioxane	4.648	88	36680	9.891	ppbv #	1
41) Tetrahydrofuran	3.078	42	89599	9.797	ppbv	96
42) Bromodichloromethane	4.519	83	159617	10.624	ppbv	99
43) Methyl Methacrylate	4.914	69	75503	9.441	ppbv	99
44) 2,2,4-Trimethylpentane	4.671	57	371479	10.364	ppbv	99
45) t-1,3-Dichloropropene	6.448	75	71943	8.697	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
 Data File : VL041835.D
 Acq On : 03 Jan 2025 20:18
 Operator : SY/MD
 Sample : VL0103ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0103ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/06/2025
 Supervised By : Mahesh Dadoda 01/06/2025

Quant Time: Jan 03 20:46:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M

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

QLast Update : Thu Dec 19 07:32:09 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.639	75	97720	9.306	ppbv	99
47) 1,1,2-Trichloroethane	6.616	97	78509	9.902	ppbv	91
48) Dibromochloromethane	7.415	129	115064	10.628	ppbv	100
49) Bromoform	9.503	173	95248	10.747	ppbv	99
50) 4-Methyl-2-Pentanone	5.794	43	221086	9.947	ppbv	98
51) 2-Hexanone	7.467	43	175224	9.726	ppbv #	96
52) Tetrachloroethene	8.247	164	66177	8.471	ppbv	97
53) Toluene	6.966	91	215409	9.052	ppbv	99
54) 1,2-Dibromoethane	7.681	107	106038	9.706	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	99893	10.651	ppbv	98
57) Chlorobenzene	8.943	112	183009	10.109	ppbv	96
58) Ethyl Benzene	9.374	91	309782	9.726	ppbv	100
59) m/p-Xylene	9.571	91	527847m	20.611	ppbv	
60) o-Xylene	9.985	91	263040	10.242	ppbv	98
61) Styrene	9.891	104	110567	9.956	ppbv	98
62) Isopropylbenzene	10.558	105	385547	9.992	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	172629	10.739	ppbv	100
64) n-propylbenzene	11.008	120	101153	10.369	ppbv	99
65) tert-Butylbenzene	11.549	119	347070	9.970	ppbv	99
66) Benzyl Chloride	11.633	91	27123	8.845	ppbv	97
67) sec-Butylbenzene	11.785	105	497384	10.325	ppbv	99
69) p-Isopropyltoluene	11.944	119	406259	10.233	ppbv	99
70) n-Butylbenzene	12.296	91	405788	10.579	ppbv	98
71) 2-Chlorotoluene	10.921	91	294703	10.006	ppbv	99
72) 4-Ethyltoluene	11.144	105	315873	10.420	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	268602	10.680	ppbv	100
74) 1,2,4-Trimethylbenzene	11.555	105	299293	11.066	ppbv	93
75) 1,3-Dichlorobenzene	11.626	146	174003	10.091	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	174075	10.219	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	168563	10.159	ppbv	99
78) Hexachloro-1,3-Butadiene	13.898	225	98307	7.991	ppbv	99
79) Naphthalene	13.529	128	207867	11.030	ppbv	100
80) Naphthalene,2-methyl-	14.475	142	79796	13.690	ppbv	98
81) 1,2,4-Trichlorobenzene	13.458	180	98074	9.524	ppbv	98

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

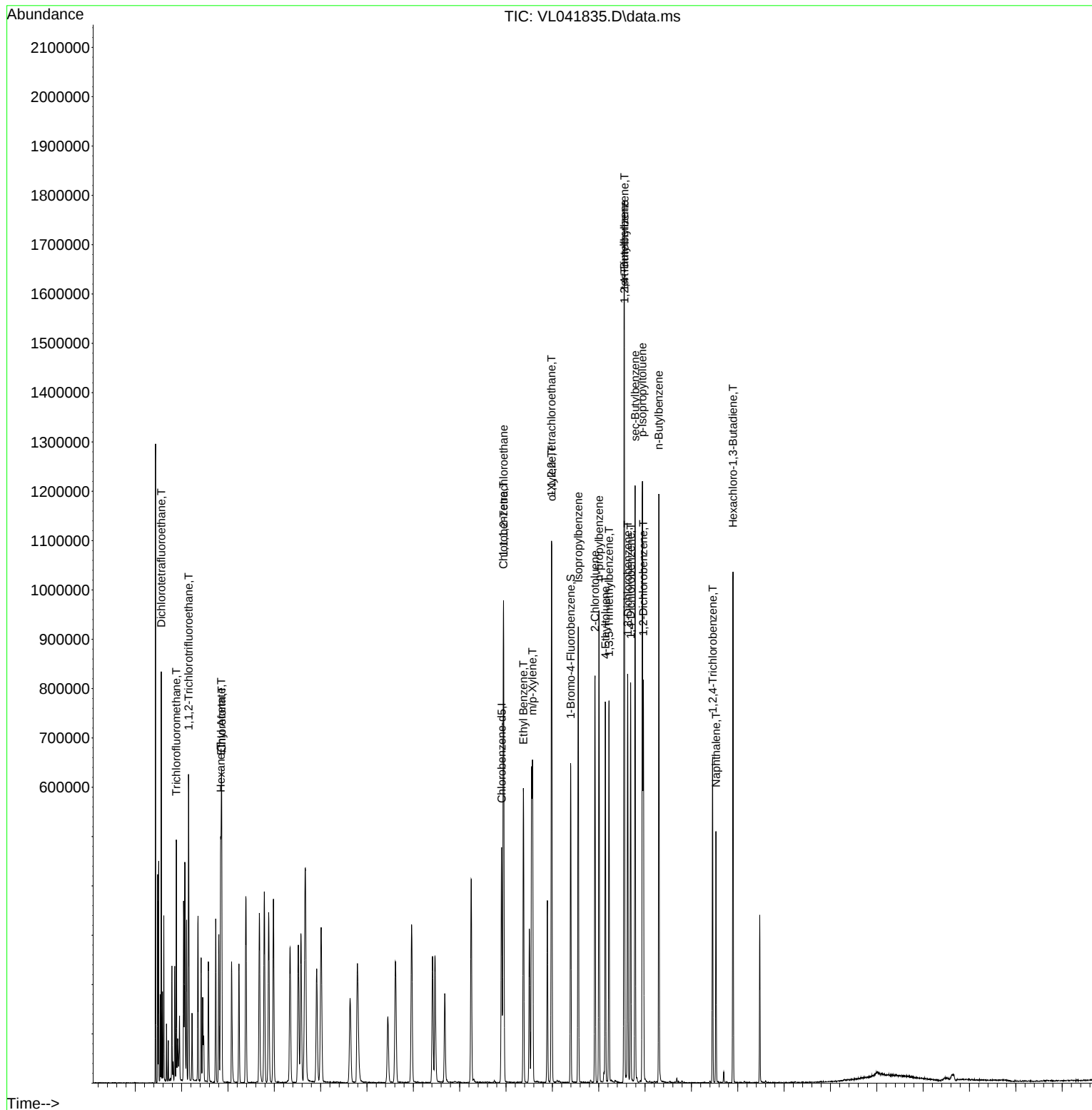
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010325\
Data File : VL041835.D
Acq On : 03 Jan 2025 20:18
Operator : SY/MD
Sample : VL0103ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0103ABS01

Quant Time: Jan 03 20:46:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 19 07:32:09 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/06/2025
Supervised By :Mahesh Dadoda 01/06/2025



Manual Integration Report

Sequence:	VL121624	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL041752.D	m/p-Xylene	SAM	12/20/2024 4:34:05 AM	MMDadoda	12/20/2024 4:37:21 AM	Peak Integrated by Software
VSTDICCC002	VL041753.D	1,4-Dioxane	SAM	12/20/2024 4:34:06 AM	MMDadoda	12/20/2024 4:37:23 AM	Peak Integrated by Software
VSTDICCC002	VL041753.D	cis-1,3-Dichloropropene	SAM	12/20/2024 4:34:06 AM	MMDadoda	12/20/2024 4:37:23 AM	Peak Integrated by Software
VSTDICCC002	VL041753.D	m/p-Xylene	SAM	12/20/2024 4:34:06 AM	MMDadoda	12/20/2024 4:37:23 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	1,1,2-Trichloroethane	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	Carbon Tetrachloride	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	cis-1,3-Dichloropropene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	Ethanol	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	m/p-Xylene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	Methyl Methacrylate	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	Tetrachloroethene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC001	VL041754.D	Trichloroethene	SAM	12/20/2024 4:34:08 AM	MMDadoda	12/20/2024 4:37:25 AM	Peak Integrated by Software
VSTDICCC0.5	VL041755.D	1,1,1,2-Tetrachloroethane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL121624	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL041755.D	1,1,2-Trichloroethane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	1,2-Dibromoethane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	1,2-Dichloropropane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	1,4-Dioxane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	2,2,4-Trimethylpentane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	4-Methyl-2-Pentanone	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Benzyl Chloride	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Bromodichloromethane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Bromoform	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Chlorobenzene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	cis-1,3-Dichloropropene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Ethanol	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Heptane	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL121624

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL041755.D	m/p-Xylene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	t-1,3-Dichloropropene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.5	VL041755.D	Trichloroethene	SAM	12/20/2024 4:34:10 AM	MMDadoda	12/20/2024 4:37:27 AM	Peak Integrated by Software
VSTDICC0.1	VL041756.D	1,1,2,2-Tetrachloroethane	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software
VSTDICC0.1	VL041756.D	1,2-Dibromoethane	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software
VSTDICC0.1	VL041756.D	Tetrachloroethene	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software
VSTDICC0.1	VL041756.D	Trichloroethene	SAM	12/20/2024 4:34:11 AM	MMDadoda	12/20/2024 4:37:28 AM	Peak Integrated by Software
VSTDICC0.03	VL041757.D	1,1,1-Trichloroethane	SAM	12/20/2024 4:34:12 AM	MMDadoda	12/20/2024 4:37:30 AM	Peak Integrated by Software
VSTDICC0.03	VL041757.D	Carbon Tetrachloride	SAM	12/20/2024 4:34:12 AM	MMDadoda	12/20/2024 4:37:30 AM	Peak Integrated by Software
VSTDICC0.03	VL041757.D	Tetrachloroethene	SAM	12/20/2024 4:34:12 AM	MMDadoda	12/20/2024 4:37:30 AM	Peak Integrated by Software
VSTDICC0.03	VL041757.D	Trichloroethene	SAM	12/20/2024 4:34:12 AM	MMDadoda	12/20/2024 4:37:30 AM	Peak Integrated by Software
VSTDICC015	VL041758.D	m/p-Xylene	SAM	12/20/2024 4:34:14 AM	MMDadoda	12/20/2024 4:37:32 AM	Peak Integrated by Software
VSTDICV010	VL041759.D	1,1,2-Trichloroethane	SAM	12/20/2024 4:34:16 AM	MMDadoda	12/20/2024 4:37:35 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL121624

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV010	VL041759.D	Ethanol	SAM	12/20/2024 4:34:16 AM	MMDadoda	12/20/2024 4:37:35 AM	Peak Integrated by Software
VSTDICV010	VL041759.D	m/p-Xylene	SAM	12/20/2024 4:34:16 AM	MMDadoda	12/20/2024 4:37:35 AM	Peak Integrated by Software
VSTDCCC010	VL041769.D	m/p-Xylene	SAM	12/20/2024 4:34:46 AM	MMDadoda	12/20/2024 4:38:03 AM	Peak Integrated by Software
VSTDCCC010	VL041769.D	Methyl Methacrylate	SAM	12/20/2024 4:34:46 AM	MMDadoda	12/20/2024 4:38:03 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL010325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL041828.D	Isopropyl Alcohol	Sam	1/6/2025 7:26:53 AM	MMDADOD A	1/6/2025 7:28:55 AM	Peak Integrated by Software
VSTDCCC010	VL041828.D	m/p-Xylene	Sam	1/6/2025 7:26:53 AM	MMDADOD A	1/6/2025 7:28:55 AM	Peak Integrated by Software
P5395-01	VL041830.D	Ethyl Benzene	Sam	1/6/2025 7:26:54 AM	MMDADOD A	1/6/2025 7:28:56 AM	Peak Integrated by Software
P5395-01	VL041830.D	o-Xylene	Sam	1/6/2025 7:26:54 AM	MMDADOD A	1/6/2025 7:28:56 AM	Peak Integrated by Software
P5395-01	VL041830.D	Toluene	Sam	1/6/2025 7:26:54 AM	MMDADOD A	1/6/2025 7:28:56 AM	Peak Integrated by Software
P5395-04	VL041831.D	1,2,4-Trimethylbenzene	Sam	1/6/2025 7:26:55 AM	MMDADOD A	1/6/2025 7:28:59 AM	Peak Integrated by Software
P5395-04	VL041831.D	2-Butanone	Sam	1/6/2025 7:26:55 AM	MMDADOD A	1/6/2025 7:28:59 AM	Peak Integrated by Software
P5395-04	VL041831.D	o-Xylene	Sam	1/6/2025 7:26:55 AM	MMDADOD A	1/6/2025 7:28:59 AM	Peak Integrated by Software
P5395-04	VL041831.D	Tetrachloroethene	Sam	1/6/2025 7:26:55 AM	MMDADOD A	1/6/2025 7:28:59 AM	Peak Integrated by Software
P5395-04	VL041831.D	Toluene	Sam	1/6/2025 7:26:55 AM	MMDADOD A	1/6/2025 7:28:59 AM	Peak Integrated by Software
P5395-02	VL041832.D	2,2,4-Trimethylpentane	Sam	1/6/2025 7:26:56 AM	MMDADOD A	1/6/2025 7:29:02 AM	Peak Integrated by Software
P5395-02	VL041832.D	Acetone	Sam	1/6/2025 7:26:56 AM	MMDADOD A	1/6/2025 7:29:02 AM	Peak Integrated by Software
P5395-02	VL041832.D	Chlorodifluoromethane	Sam	1/6/2025 7:26:56 AM	MMDADOD A	1/6/2025 7:29:02 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL010325

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5395-02	VL041832.D	m/p-Xylene	Sam	1/6/2025 7:26:56 AM	MMDADOD A	1/6/2025 7:29:02 AM	Peak Integrated by Software
P5395-02	VL041832.D	Tetrachloroethene	Sam	1/6/2025 7:26:56 AM	MMDADOD A	1/6/2025 7:29:02 AM	Peak Integrated by Software
P5395-03	VL041833.D	2,2,4-Trimethylpentane	Sam	1/6/2025 7:26:58 AM	MMDADOD A	1/6/2025 7:29:03 AM	Peak Integrated by Software
P5395-03	VL041833.D	Chlorodifluoromethane	Sam	1/6/2025 7:26:58 AM	MMDADOD A	1/6/2025 7:29:03 AM	Peak Integrated by Software
P5395-03	VL041833.D	m/p-Xylene	Sam	1/6/2025 7:26:58 AM	MMDADOD A	1/6/2025 7:29:03 AM	Peak Integrated by Software
P5395-03	VL041833.D	Tetrachloroethene	Sam	1/6/2025 7:26:58 AM	MMDADOD A	1/6/2025 7:29:03 AM	Peak Integrated by Software
P5395-03	VL041833.D	Toluene	Sam	1/6/2025 7:26:58 AM	MMDADOD A	1/6/2025 7:29:03 AM	Peak Integrated by Software
P5395-03DUP	VL041834.D	2,2,4-Trimethylpentane	Sam	1/6/2025 7:26:59 AM	MMDADOD A	1/6/2025 7:29:05 AM	Peak Integrated by Software
P5395-03DUP	VL041834.D	Carbon Tetrachloride	Sam	1/6/2025 7:26:59 AM	MMDADOD A	1/6/2025 7:29:05 AM	Peak Integrated by Software
P5395-03DUP	VL041834.D	Chlorodifluoromethane	Sam	1/6/2025 7:26:59 AM	MMDADOD A	1/6/2025 7:29:05 AM	Peak Integrated by Software
P5395-03DUP	VL041834.D	Hexane	Sam	1/6/2025 7:26:59 AM	MMDADOD A	1/6/2025 7:29:05 AM	Peak Integrated by Software
P5395-03DUP	VL041834.D	m/p-Xylene	Sam	1/6/2025 7:26:59 AM	MMDADOD A	1/6/2025 7:29:05 AM	Peak Integrated by Software
P5395-03DUP	VL041834.D	Tetrachloroethene	Sam	1/6/2025 7:26:59 AM	MMDADOD A	1/6/2025 7:29:05 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VL010325

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VL0103ABS01	VL041835.D	Ethanol	Sam	1/6/2025 7:27:01 AM	MMDADOD A	1/6/2025 7:29:06 AM	Peak Integrated by Software
VL0103ABS01	VL041835.D	m/p-Xylene	Sam	1/6/2025 7:27:01 AM	MMDADOD A	1/6/2025 7:29:06 AM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL121624

Review By	Mahesh Dadoda	Review On	12/18/2024 8:44:47 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:48:10 AM		
SubDirectory	VL121624	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2556			
Initial Calibration Stds		AP2560,AP2561,AP2562			
CCC		AP2560,MDL,AP2561,AP2562			
Internal Standard/PEM		AP2556			
ICV/I.BLK		AP2558			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041750.D	16 Dec 2024 12:02	SY/MD	Ok
2	VSTDIC0.5	VL041751.D	16 Dec 2024 12:59	SY/MD	Not Ok
3	VSTDICCC010	VL041752.D	16 Dec 2024 13:30	SY/MD	Ok,M
4	VSTDIC002	VL041753.D	16 Dec 2024 14:03	SY/MD	Ok,M
5	VSTDIC001	VL041754.D	16 Dec 2024 14:34	SY/MD	Ok,M
6	VSTDIC0.5	VL041755.D	16 Dec 2024 15:05	SY/MD	Ok,M
7	VSTDIC0.1	VL041756.D	16 Dec 2024 15:37	SY/MD	Ok,M
8	VSTDIC0.03	VL041757.D	16 Dec 2024 16:08	SY/MD	Ok,M
9	VSTDIC015	VL041758.D	16 Dec 2024 16:41	SY/MD	Ok,M
10	VSTDICV010	VL041759.D	16 Dec 2024 18:59	SY/MD	Ok,M
11	VL1216ABL01	VL041760.D	16 Dec 2024 20:20	SY/MD	Ok
12	VL1216ABL02	VL041761.D	16 Dec 2024 20:51	SY/MD	Ok
13	VL1216ABL03	VL041762.D	16 Dec 2024 21:21	SY/MD	Ok
14	MDL 0.4	VL041763.D	16 Dec 2024 21:52	SY/MD	Ok,M
15	MDL 0.4	VL041764.D	16 Dec 2024 22:23	SY/MD	Ok,M
16	MDL 0.4	VL041765.D	16 Dec 2024 22:54	SY/MD	Ok,M
17	MDL 0.03	VL041766.D	16 Dec 2024 23:24	SY/MD	Ok,M
18	MDL 0.03	VL041767.D	16 Dec 2024 23:55	SY/MD	Ok,M
19	VL1216ABS01	VL041768.D	17 Dec 2024 00:57	SY/MD	Ok,M
20	VSTDCCC010	VL041769.D	17 Dec 2024 07:59	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL010325

Review By	Semsettin Yesilyurt	Review On	1/6/2025 7:27:05 AM		
Supervise By	Mahesh Dadoda	Supervise On	1/6/2025 7:29:14 AM		
SubDirectory	VL010325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121624AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2563			
Initial Calibration Stds		AP2560,AP2561,AP2562			
CCC		AP2560			
Internal Standard/PEM		AP2563			
ICV/I.BLK		AP2558			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041827.D	03 Jan 2025 13:33	SY/MD	Ok
2	VSTDCCC010	VL041828.D	03 Jan 2025 14:25	SY/MD	Ok,M
3	VL0103ABL01	VL041829.D	03 Jan 2025 15:48	SY/MD	Ok
4	P5395-01	VL041830.D	03 Jan 2025 16:19	SY/MD	Ok,M
5	P5395-04	VL041831.D	03 Jan 2025 16:50	SY/MD	Ok,M
6	P5395-02	VL041832.D	03 Jan 2025 17:25	SY/MD	Ok,M
7	P5395-03	VL041833.D	03 Jan 2025 18:00	SY/MD	Ok,M
8	P5395-03DUP	VL041834.D	03 Jan 2025 19:30	SY/MD	Ok,M
9	VL0103ABS01	VL041835.D	03 Jan 2025 20:18	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL121624

Review By	Mahesh Dadoda	Review On	12/18/2024 8:44:47 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:48:10 AM
SubDirectory	VL121624	HP Acquire Method	TO15AIR.M HP Processing Method VL121624AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2556		
Initial Calibration Stds	AP2560,AP2561,AP2562		
CCC	AP2560,MDL,AP2561,AP2562		
Internal Standard/PEM	AP2556		
ICV/I.BLK	AP2558		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041750.D	16 Dec 2024 12:02		SY/MD	Ok
2	VSTDIC0.5	VSTDIC0.5	VL041751.D	16 Dec 2024 12:59	Not used	SY/MD	Not Ok
3	VSTDICCC010	VSTDICCC010	VL041752.D	16 Dec 2024 13:30	Method failed for Comp.#,80	SY/MD	Ok,M
4	VSTDIC002	VSTDIC002	VL041753.D	16 Dec 2024 14:03		SY/MD	Ok,M
5	VSTDIC001	VSTDIC001	VL041754.D	16 Dec 2024 14:34		SY/MD	Ok,M
6	VSTDIC0.5	VSTDIC0.5	VL041755.D	16 Dec 2024 15:05		SY/MD	Ok,M
7	VSTDIC0.1	VSTDIC0.1	VL041756.D	16 Dec 2024 15:37		SY/MD	Ok,M
8	VSTDIC0.03	VSTDIC0.03	VL041757.D	16 Dec 2024 16:08		SY/MD	Ok,M
9	VSTDIC015	VSTDIC015	VL041758.D	16 Dec 2024 16:41		SY/MD	Ok,M
10	VSTDICV010	ICVVL121624	VL041759.D	16 Dec 2024 18:59		SY/MD	Ok,M
11	VL1216ABL01	VL1216ABL01	VL041760.D	16 Dec 2024 20:20		SY/MD	Ok
12	VL1216ABL02	VL1216ABL02	VL041761.D	16 Dec 2024 20:51		SY/MD	Ok
13	VL1216ABL03	VL1216ABL03	VL041762.D	16 Dec 2024 21:21		SY/MD	Ok
14	MDL 0.4	MDL 0.4	VL041763.D	16 Dec 2024 21:52		SY/MD	Ok,M
15	MDL 0.4	MDL 0.4	VL041764.D	16 Dec 2024 22:23		SY/MD	Ok,M
16	MDL 0.4	MDL 0.4	VL041765.D	16 Dec 2024 22:54		SY/MD	Ok,M
17	MDL 0.03	MDL 0.03	VL041766.D	16 Dec 2024 23:24		SY/MD	Ok,M
18	MDL 0.03	MDL 0.03	VL041767.D	16 Dec 2024 23:55		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL121624

Review By	Maresh Dadoda	Review On	12/18/2024 8:44:47 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/18/2024 8:48:10 AM
SubDirectory	VL121624	HP Acquire Method	TO15AIR.M HP Processing Method VL121624AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2556		
Initial Calibration Stds	AP2560,AP2561,AP2562		
CCC	AP2560,MDL,AP2561,AP2562		
Internal Standard/PEM	AP2556		
ICV/I.BLK	AP2558		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	VL1216ABS01	VL1216ABS01	VL041768.D	17 Dec 2024 00:57		SY/MD	Ok,M
20	VSTDCCC010	VSTDCCC010EC	VL041769.D	17 Dec 2024 07:59		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL010325

Review By	Semsettin Yesilyurt	Review On	1/6/2025 7:27:05 AM
Supervise By	Maresh Dadoda	Supervise On	1/6/2025 7:29:14 AM
SubDirectory	VL010325	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL121624AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2563
Initial Calibration Stds	AP2560,AP2561,AP2562
CCC	AP2560
Internal Standard/PEM	AP2563
ICV/I.BLK	AP2558
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041827.D	03 Jan 2025 13:33		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL041828.D	03 Jan 2025 14:25		SY/MD	Ok,M
3	VL0103ABL01	VL0103ABL01	VL041829.D	03 Jan 2025 15:48		SY/MD	Ok
4	P5395-01	SV1	VL041830.D	03 Jan 2025 16:19		SY/MD	Ok,M
5	P5395-04	SV2	VL041831.D	03 Jan 2025 16:50		SY/MD	Ok,M
6	P5395-02	IA1	VL041832.D	03 Jan 2025 17:25		SY/MD	Ok,M
7	P5395-03	IA2	VL041833.D	03 Jan 2025 18:00		SY/MD	Ok,M
8	P5395-03DUP	IA2DUP	VL041834.D	03 Jan 2025 19:30		SY/MD	Ok,M
9	VL0103ABS01	VL0103ABS01	VL041835.D	03 Jan 2025 20:18		SY/MD	Ok,M

M : Manual Integration

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

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

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

~~NASD~~:

Title: Sample Custodian

Field Sample Seal No. P5395

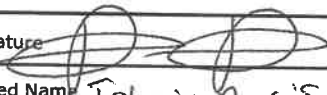
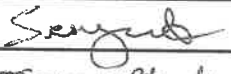
Date Broken: 12/27/2024

Military Time Seal Broken: 12:55:00

Case No.: 75-02 51st Ave Elmhurst N

Analytical Parameter/Fraction: OCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
P5395-01	SV1		
P5395-02	IA1		
P5395-03	IA2		
P5395-04	SV2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
12-30-24	0823	Signature 	Signature 	
		Printed Name <u>Tahmir Davis</u>	Printed Name <u>Security</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

Analyst Signature:

Supervisor Signature:

Pressure Gauge ID:

Document Control # A3041228

Process Report

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

Order ID : P5395

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
01/06/2025	B2412026	P5395-04	-6.3	10268	6 L	10648		C2410002	VL041692.D Seq :VL110724 TUNE : VL041672.D ICAL : VL041679.D CCAL : VL041674.D MB : VL041682.D
12/30/2024	B2412026	P5395-03	-6.3	10303	6 L	10503		C2408004	VL041544.D Seq :vl081924 TUNE : VL041539.D ICAL : VL041404.D CCAL : VL041540.D MB : VL041541.D
12/30/2024	B2412035	P5395-01	-5.5	10410	6 L	10550		C2408004	VL041544.D Seq :vl081924 TUNE : VL041539.D ICAL : VL041404.D CCAL : VL041540.D MB : VL041541.D
12/30/2024	B2412035	P5395-02	-5.9	10266	6 L	10226		C2408003	VL041543.D Seq :vl081924 TUNE : VL041539.D ICAL : VL041404.D CCAL : VL041540.D MB : VL041541.D

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

Client Sample ID #: **SV2**
 Client Name: **GE**
 Project Name: **51ST AVE**
 Date: **12/15**
 Analysis: **12/15**
 Comments: **12/15**

CHEMTECH'S SAMPLE ID: _____
 Date Received: _____ Expiration: _____

2026

10268
163

Storage Location: VOA Lab
 Sample: P5395-04
 Cust #: SV2

CHEMTECH

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

Client Sample ID #: IA1

Client Name: GFE

Project Name: SIST AVE

Date: 12/27/01

Time: 15

Analysis: TE-15

Comments: 2035

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab

Sample: P5395-02

Cust #: IA1

CHEMTECH

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

Client Sample ID #: SV1

Client Name: GFE

Project Name: SIST AVE

Date: 12/27/01

Time: 15

Analysis: TE-15

Comments: 2035

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration: _____

Storage Location: VOA Lab

Sample: P5395-01

Cust #: SV1

CHEMTECH

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

Client Sample ID #: IA2

Client Name: GFE

Project Name: SIST AVE

Date: 12/27/01

Time: 15

Analysis: TE-15

Comments: 2035

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab

Sample: P5395-03

Cust #: IA2



THE FUTURE OF THE FUTURE

Client Contact Information		Bottle Order ID : B2412026		Courier : F. Galdun		3 of 4 COCs										
Client ID : GFELO1		Project ID : 262-502-518-AE		Sampler Name(s) : FRANK Galdun		Analysis Matrix										
Customer Name : GFE LLC		Project Manager : FRANK Galdun		AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified												
Address : 58 Nokomis Ave		Phone Number : 646-542-3465														
		Fax Number : 973-334-1692														
City : Lake Hiawatha		Analysis Turnaround Time : 5 DAY														
State : NJ		Standard : Business days OR		Data Package Type : RESULTS ONLY												
Zip Code : 07034		Rush (Specify) : 5 Days		EDD Type : PDF												
Country :																
Sample Identification		Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor/Ambient Air	Soil Gas
SVZ	12/27/24 9:40 AM	12/27/24 10:00 AM	12/27/24 10:00 AM	12/27/24 10:00 AM	30.5	30.5	68	68	-30	-6.3	10648	10268	6 L	50	VL041692.D	1
Temperature (Fahrenheit)																
Ambient		Maximum		Minimum												
Start																
Stop																
Pressure (Inches of Hg)																
Ambient		Maximum		Minimum												
Start																
Stop																
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low																
Sampling site (State):																
Quick Connector required : NO																
Canisters Shipped by: Sam		Date/Time: 12/18/24		Canisters Received by:		Date/Time: 12/27/24										
Samples Relinquished by: F. Galdun		Date/Time: 12/27/24		Received by: Raymond Molander		Date/Time:										
Relinquished by:		Date/Time:		Received by:		Date/Time:										
B2412026 - 1																

Client Contact Information		Bottle Order ID : B2412035	Courier : FGALDUN	2 of 4 COCs																						
Client ID : GFEL01	Project ID : 202-334-1692	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: 75-02 51ST AVE ELMHURST, NY	AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																								
City : Lake Hiawatha	Analysis Turnaround Time : 5 DAY																									
State : NJ	Standard : 30 Business days OR																									
Zip Code : 07034	Rush (Specify): 5 Days	Data Package Type : RESULTS ONLY																								
Country :		EDD Type : PDF																								
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/ Ambient Air	Soil Gas										
IAI	12/29/13	11:30	1:30	0054	5	68	68	-30	-5.9	10226	10266	6 L	50	VL041543.D	1											
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																		Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																								
Start																										
Stop																										
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																		Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																								
Start																										
Stop																										
GC/MS Analyst Signature (TO-15) <i>Sued</i>																										
**Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE COMPOUNDS ON THE ATTACHED LIST Please follow the instructions on the back of this COC.																										
Special Instructions/QC Requirements & Comments :																										
Suspected Contamination: High Medium Low																										
Sampling site (State):																										
Quick Connector required : NO																										
Canisters Shipped by: <i>Sued</i>																										
Samples Relinquished by: <i>R. M. Mundy</i>																										
Relinquished by:																										
Date/Time: 12:15																										
Date/Time: 12 27 24																										
Date/Time:																										
B2412035 - 1																										

Client Contact Information		Bottle Order ID : B2412035		Courier : F. GALDUN		1 of 4 COCs																			
Client ID : GFEL01		Project ID : 242-12-14-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100		Sampler Name(s) : FRANK GALDUN		Analysis Matrix																			
Customer Name : GFE LLC		Project Manager : FRANK GALDUN		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
Address : 58 Nokomis Ave		Phone Number : 646-542-3465																							
		Fax Number : 973-334-1692																							
City : Lake Hiawatha		Site Details : 7502 51ST AVE, EMMHURST, NY																							
State : NJ		Analysis Turnaround Time : 5 DAY																							
Zip Code : 07034		Standard : 18 Business-days		Data Package Type : RESULTS ONLY																					
Country : USA		Rush (Specify): 5 Days		EDD Type : PDF																					
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas									
SV1	10/27/11 11:28	11:28	11:29	29.5	5.5	68	68	-30	5.5	10550	10410	50	VL041544.D	1		1									
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																	Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																							
Start																									
Stop																									
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																	Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																							
Start																									
Stop																									
Special Instructions/QC Requirements & Comments :																									
Suspected Contamination: High Medium Low																									
Sampling site (State):																									
Quick Connector required : N																									
Canisters Shipped by: SGM																									
Samples Relinquished by: FRANK																									
Relinquished by:																									
Date/Time: 12/18/24																									
Date/Time: 12/27/24																									
Date/Time:																									
PID Readings: 0.0																									
** Submittal of this COC Indicates approval of the analysis based on existing conditions.																									
REPORT ONLY THOSE COMPOUNDS LISTED ON THE ATTACHED PAGE																									
Please follow the instructions on the back of this COC.																									
GC/MS Analyst Signature (TO-15)																									
Signature: [Signature]																									
B2412035 - 2																									



CHEMTech Project No. :

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

Client Contact Information		Bottle Order ID : B2412026		Courier : F GALDUN		4 of 4 COCs									
Client ID : GFEL01		Project ID :		Sampler Name(s) : FRANK GALDUN		Analysis									
Customer Name : GFE LLC		Project Manager : FRANK GALDUN		AIR ANALYSIS		Matrix									
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY											
City : Lake Hiawatha		Fax Number : 973-334-1692		Batch Certified											
State : NJ		Site Details: 75-02 51ST AVE ELMTURST, NY													
Zip Code : 07034		Analysis Turnaround Time : 5 DAY													
Country :		Standard : 10 Business Days 5 Days													
Sample Identification		Rush (Specify):													
Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
12/27/24	12:41	12:41	30	5	68	68	-30	6.3	10503	10303	50	VL041544.D	/	/	/
Temperature (Fahrenheit)															
Ambient		Maximum		Minimum											
Start															
Stop															
Pressure (Inches of Hg)															
Ambient		Maximum		Minimum											
Start															
Stop															
Special Instructions/QC Requirements & Comments :															
Suspected Contamination: High Medium Low															
Sampling site (State):															
Quick Connector required : NO															
Canisters Shipped by: SANG															
Samples Relinquished by: FRANK															
Relinquished by:															
Date/Time: 12/18/24															
Date/Time: 12/27/24															
Date/Time:															
Canisters Received by:															
Received by: R. Melendez															
Received by:															
Date/Time: 12:55															
Date/Time: 12-27-24															
Date/Time:															
B2412026 - 2															