



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2410066				Courier : F Galdun				1 of 2 COCs							
Client ID : GFEL01				Project ID : 129-11 Metropolitan Ave New Gardens 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: 3594 E TREMONT AVE BROX NY															
				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY											
				Standard : 10 business days OR				EDD Type : PDF											
Rush (Specify): 5 Days																			
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas		
TA1	11/3/24	8:33	10:33	OVER 30	5.5	60	60	-30	-5.9	10226	10295	6 L	50	VL041543.D	1	1			
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]									
		Ambient	Maximum	Minimum															
Start																			
Stop																			
Pressure (Inches of Hg)										*** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE VOCs ON ATTACHED LIST Please follow the instructions on the back of this COC.									
		Ambient	Maximum	Minimum															
Start																			
Stop																			
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium Low PID Readings: 0.0																			
Sampling site (State):																			
Quick Connector required : NO																			
Canisters Shipped by: SAR				Date/Time: 11/4/24				Canisters Received by: [Signature]				Date/Time: 11/4/24 8:15				B2410066 - 2			
Samples Relinquished by: [Signature]				Date/Time: 11/4/24				Received by: [Signature]				Date/Time:							
Relinquished by:				Date/Time:				Received by:				Date/Time:							

Client Contact Information				Bottle Order ID : B2410066				Courier : F. GALDUN				<u>2</u> of <u>2</u> COCs							
Client ID : GFEL01 Project ID : 129-11 Metropolitan Ave Kew Gardens NY				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix							
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified											
				Phone Number : 646-542-3465															
				Fax Number : 973-334-1692															
Site Details: 3594 E. TREMONT AVE Bronx, NY																			
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type RESULTS ONLY				Indoor/Ambient Air Soil Gas							
State : NJ				Standard : 10 business days OR				EDD Type : PDE											
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				
SU1	11/13/24	8:32	10:52	OVER 30	0	68	68	-30	-2.2	10185	10283	6 L	50	VL041543.D	1				
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) Suk									
		Ambient		Maximum		Minimum													
Start																			
Stop																			
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE VOCs ON ATTACHED LIST Please follow the instructions on the back of this COC.									
		Ambient		Maximum		Minimum													
Start																			
Stop																			
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium Low PID Readings:																			
Sampling site (State):																			
Quick Connector required : NO																			
Canisters Shipped by: Suk				Date/Time: 11/14/24				Canisters Received by: cl				Date/Time:				B2410066 - 1			
Samples Relinquished by: Suk				Date/Time: 11/14/24				Received by:				Date/Time: 11-14-24 8:15							
Relinquished by:				Date/Time:				Received by:				Date/Time:							

REQUESTED ANALYTE LIST:

PCE
TCE
cis-1,2-DCE
1,1,1-TCA
1,2-DCE
1,1-DCE
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Naphthalene
Cyclohexane
2,2,4-Trimethylpentane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
o-xylene
m,p-xylene
Heptane
Hexane

REQUESTED ANALYTE LIST:

PCE
TCE
cis-1,2-DCE
1,1,1-TCA
1,2-DCE
1,1-DCE
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Naphthalene
Cyclohexane
2,2,4-Trimethylpentane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
o-xylene
m,p-xylene
Heptane
Hexane



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: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
MRSA		Title: <u>Sample Custodian</u>	
Field Sample Seal No. <u>P4696</u>		Date Broken <u>1/4/2024</u>	
Case No.: <u>3594 E Tremont Ave, Bron</u>		Military Time Seal Broken: <u>08:15:00</u>	
		Analytical Parameter/Fraction: <u>TO-15</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
P4696-01	IA1		
P4696-02	SV1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
1/4/24	13:00	Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

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:	P4696	OrderDate:	11/4/2024 10:31:58 AM
Client:	GFE LLC	Project:	3594 E Tremont Ave, Bronx NY
Contact:	Frank Galdun	Location:	L21,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4696-01	IA1	Air	VOCMS Group2	TO-15	11/03/24		11/07/24	11/04/24
P4696-02	SV1	Air	VOCMS Group2	TO-15	11/03/24		11/07/24	11/04/24

Hit Summary Sheet
SW-846

SDG No.: P4696
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	IA1							
P4696-01	IA1	Air	Benzene	0.35	J	0.29	1.60	ug/m3
P4696-01	IA1	Air	Toluene	2.75		0.41	1.88	ug/m3
P4696-01	IA1	Air	o-Xylene	0.52	J	0.52	2.17	ug/m3
P4696-01	IA1	Air	1,3,5-Trimethylbenzene	1.77	J	0.54	2.46	ug/m3
P4696-01	IA1	Air	1,2,4-Trimethylbenzene	5.90		0.39	2.46	ug/m3
Total Voc :				11.3				
Total Concentration:				11.3				
Client ID:	SV1							
P4696-02	SV1	Air	Heptane	2.66	J	0.90	4.10	ug/m3
P4696-02	SV1	Air	Benzene	0.93	J	0.54	3.19	ug/m3
P4696-02	SV1	Air	Toluene	5.65		0.83	3.77	ug/m3
P4696-02	SV1	Air	Tetrachloroethene	1.49		0.20	0.41	ug/m3
P4696-02	SV1	Air	m/p-Xylene	1.91	J	1.82	8.69	ug/m3
P4696-02	SV1	Air	o-Xylene	1.61	J	1.04	4.34	ug/m3
P4696-02	SV1	Air	1,3,5-Trimethylbenzene	1.87	J	1.08	4.92	ug/m3
P4696-02	SV1	Air	1,2,4-Trimethylbenzene	5.41		0.79	4.92	ug/m3
P4696-02	SV1	Air	Hexane	4.93		0.78	3.52	ug/m3
Total Voc :				26.5				
Total Concentration:				26.5				



QC SUMMARY

Surrogate Summary

SDG No.: P4696

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4696-01	IA1	1-Bromo-4-Fluorobenzene	10	9.99	100	65	135
P4696-01DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	9.83	98	65	135
P4696-02	SV1	1-Bromo-4-Fluorobenzene	10	10.0	100	65	135
VL1107ABL01	VL1107ABL01	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
VL1107ABS01	VL1107ABS01	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4696

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL041683.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1107ABS01	Vinyl Chloride	10	10.2	ppbv	102			70	130	
	Heptane	10	10.5	ppbv	105			70	130	
	1,1-Dichloroethene	10	9.70	ppbv	97			70	130	
	Cyclohexane	10	9.90	ppbv	99			70	130	
	cis-1,2-Dichloroethene	10	10.0	ppbv	100			70	130	
	1,1,1-Trichloroethane	10	10.3	ppbv	103			70	130	
	2,2,4-Trimethylpentane	10	10.1	ppbv	101			70	130	
	Benzene	10	10.2	ppbv	102			70	130	
	1,2-Dichloroethane	10	10.0	ppbv	100			70	130	
	Trichloroethene	10	10.8	ppbv	108			70	130	
	Toluene	10	11.2	ppbv	112			70	130	
	Tetrachloroethene	10	11.1	ppbv	111			70	130	
	Ethyl Benzene	10	11.1	ppbv	111			70	130	
	m/p-Xylene	20	21.2	ppbv	106			70	130	
	o-Xylene	10	10.7	ppbv	107			70	130	
	1,3,5-Trimethylbenzene	10	10.8	ppbv	108			70	130	
	1,2,4-Trimethylbenzene	10	10.3	ppbv	103			70	130	
	Naphthalene	10	12.5	ppbv	125			70	130	
	Hexane	10	10.0	ppbv	100			70	130	

Duplicate Sample Summary

Lab Sample Id :	P4696-01DUP	P4696-01
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL041689.D	VL041688.D
Anal Date & Time :	11/07/2024 22:24	11/07/2024 21:44

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trimethylbenzene	1.3	1.2	8
1,2-Dichloroethane	0	0	0
1,3,5-Trimethylbenzene	0.35	0.36	2.8
2,2,4-Trimethylpentane	0	0	0
Benzene	0.1	0.11	9.5
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexane	0	0	0
m/p-Xylene	0.12	0	200 *
Naphthalene	0	0	0
o-Xylene	0.12	0.12	0
Tetrachloroethene	0	0	0
Toluene	0.7	0.73	4.2
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: P4696

SAS No.: P4696 SDG NO.: P4696

Lab File ID: VL041689.D

Lab Sample ID: P4696-01DUP

Date Analyzed: 11/07/2024

Time Analyzed: 22:24

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
IA1DUP	P4696-01DUP	VL041689.D	11/07/2024

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL1107ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: P4696

SAS No.: P4696 SDG NO.: P4696

Lab File ID: VL041682.D

Lab Sample ID: VL1107ABL01

Date Analyzed: 11/07/2024

Time Analyzed: 17:44

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
VL1107ABS01	VL1107ABS01	VL041683.D	11/07/2024
SV1	P4696-02	VL041685.D	11/07/2024
IA1	P4696-01	VL041688.D	11/07/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: P4696 SAS No.: P4696 SDG NO.: P4696
Lab File ID: VL041672.D BFB Injection Date: 11/07/2024
Instrument ID: MSVOA_L BFB Injection Time: 08:58
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	24.6
75	30.0 - 66.0% of mass 95	56.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	67.4
175	4.0 - 9.0% of mass 174	5.1 (7.5) 1
176	93.0 - 101.0% of mass 174	64.3 (95.3) 1
177	5.0 - 9.0% of mass 176	4.1 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL041674.D	11/07/2024	10:15
VSTDICCC002	VSTDICCC002	VL041675.D	11/07/2024	10:55
VSTDICCC001	VSTDICCC001	VL041676.D	11/07/2024	11:34
VSTDICCC0.5	VSTDICCC0.5	VL041677.D	11/07/2024	12:13
VSTDICCC0.1	VSTDICCC0.1	VL041678.D	11/07/2024	12:52
VSTDICCC0.03	VSTDICCC0.03	VL041679.D	11/07/2024	13:31
VSTDICCC015	VSTDICCC015	VL041680.D	11/07/2024	14:12
VL1107ABL01	VL1107ABL01	VL041682.D	11/07/2024	17:44
VL1107ABS01	VL1107ABS01	VL041683.D	11/07/2024	18:24
SV1	P4696-02	VL041685.D	11/07/2024	19:44
IA1	P4696-01	VL041688.D	11/07/2024	21:44
IA1DUP	P4696-01DUP	VL041689.D	11/07/2024	22:24

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: P4696 SAS No.: P4696 SDG NO.: P4696
 Lab File ID: VL041674.D Date Analyzed: 11/07/2024
 Instrument ID: MSVOA_L Time Analyzed: 10:15
 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	1170800	5.19	3260350	6.65	3326210	11.47
UPPER LIMIT	1639120	5.52	4564490	6.98	4656690	11.80
LOWER LIMIT	702481	4.86	1956210	6.32	1995720	11.14
EPA SAMPLE NO.						
IA1	920081	5.18	2493857	6.65	2294846	11.46
IA1DUP	964603	5.19	2690604	6.65	2290180	11.46
SV1	997762	5.19	2739725	6.65	2460095	11.46
VL1107ABL01	1087943	5.19	3078461	6.65	2726714	11.46
VL1107ABS01	1128795	5.19	3126174	6.65	3072161	11.46

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:	11/03/24
Project:	3594 E Tremont Ave, Bronx NY	Date Received:	11/04/24
Client Sample ID:	IA1	SDG No.:	P4696
Lab Sample ID:	P4696-01	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
VL041688.D	1		11/07/24 21:44	VL110724

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	0.11	0.35	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.73	2.75		0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.12	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	J	0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.36	1.77	J	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.20	5.90		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	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	920000		5.182			
540-36-3	1,4-Difluorobenzene	2490000		6.645			
3114-55-4	Chlorobenzene-d5	2290000		11.45			

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\VL110724\
 Data File : VL041688.D
 Acq On : 7 Nov 2024 21:44
 Operator : SY/MD
 Sample : P4696-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 03:53:57 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.182	49	920081	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2493857	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2294846	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1689750	9.993	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.726	85	34120	0.205	ppbv	94
3) Chlorodifluoromethane	2.674	51	55510m	0.463	ppbv	
4) Chloromethane	2.812	50	27853	0.439	ppbv	100
9) Propene	2.703	41	38769	0.742	ppbv	86
11) Trichlorofluoromethane	3.558	101	30913	0.213	ppbv	93
13) Ethanol	3.240	45	2619322	818.930	ppbv	99
15) Acetone	3.459	43	2121677	18.737	ppbv	100
19) Isopropyl Alcohol	3.581	45	18570689	343.117	ppbv #	95
20) Methylene Chloride	3.928	84	20096	0.482	ppbv #	91
27) Carbon Disulfide	4.121	76	22947	0.227	ppbv #	71
29) Chloroform	5.266	83	48363	0.325	ppbv	95
34) 2-Butanone	4.783	43	50932	0.410	ppbv	94
35) Carbon Tetrachloride	6.481	117	9206m	0.070	ppbv	
36) Benzene	6.359	78	20597m	0.111	ppbv	
41) Tetrahydrofuran	5.565	42	11019m	0.155	ppbv	
53) Toluene	9.208	91	141574	0.729	ppbv	97
59) m/p-Xylene	12.339	91	26907m	0.119	ppbv	
60) o-Xylene	13.053	91	26641m	0.124	ppbv	
64) n-propylbenzene	14.905	120	18127m	0.209	ppbv	
72) 4-Ethyltoluene	15.182	105	115840	0.464	ppbv #	97
73) 1,3,5-Trimethylbenzene	15.339	105	78872m	0.360	ppbv	
74) 1,2,4-Trimethylbenzene	16.098	105	306589	1.204	ppbv #	66

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

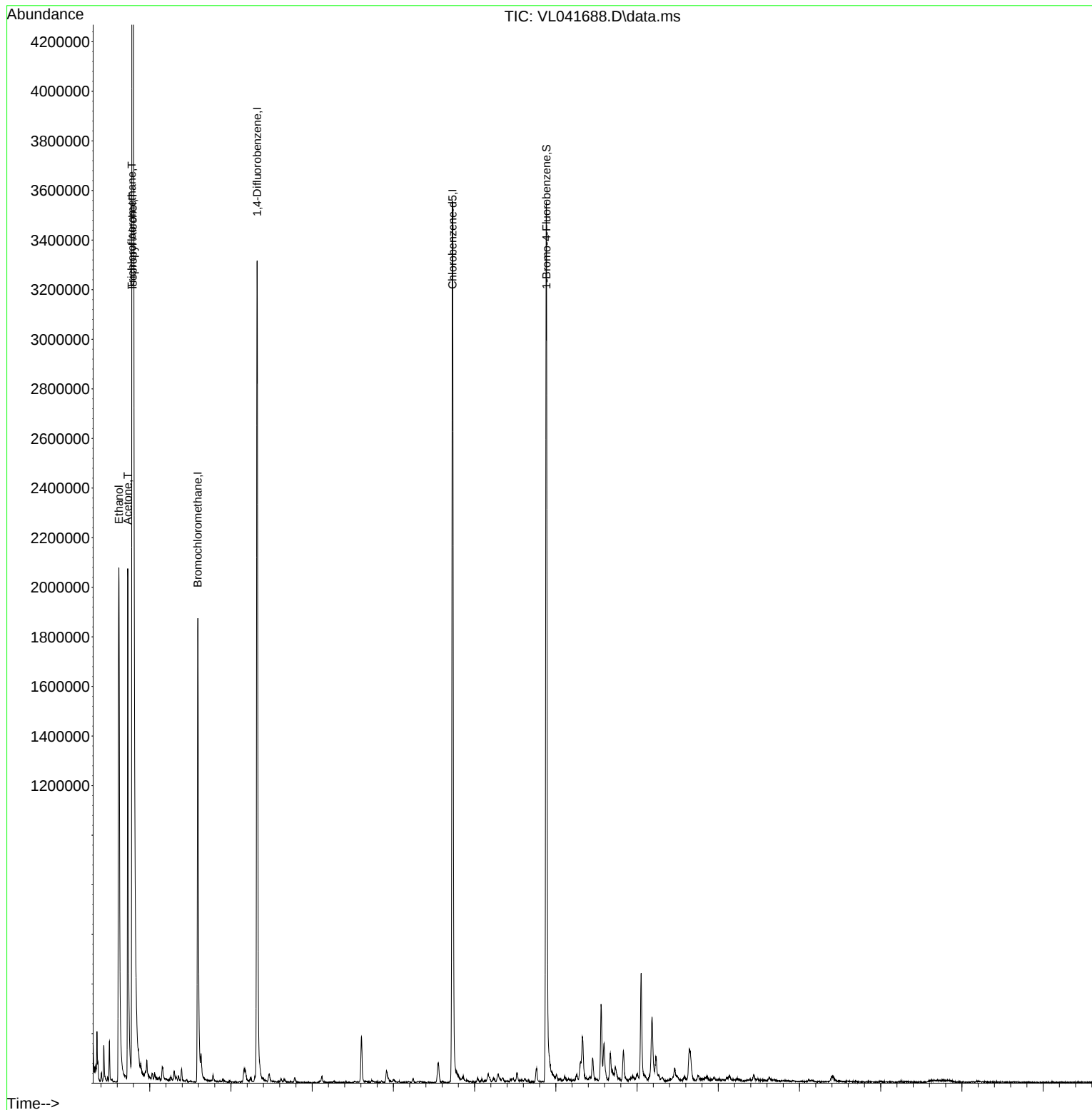
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Data File : VL041688.D
Acq On : 7 Nov 2024 21:44
Operator : SY/MD
Sample : P4696-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

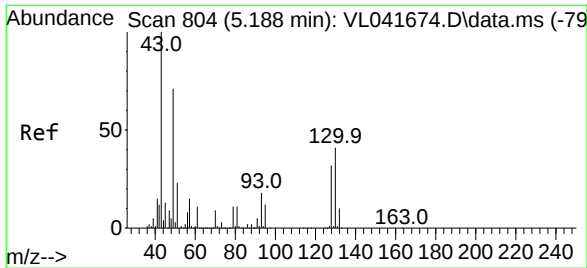
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Nov 08 03:53:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Nov 08 01:01:00 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

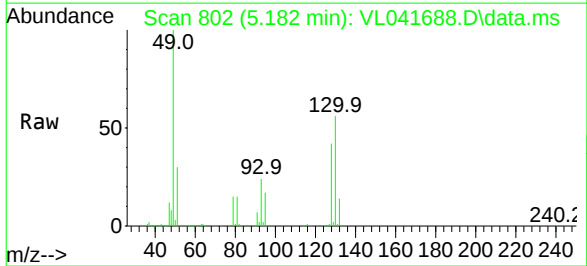
Reviewed By : Mahesh Dadoda 11/09/2024
Supervised By : Semsettin Yesilyurt 11/09/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 804
Delta R.T. -0.006 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

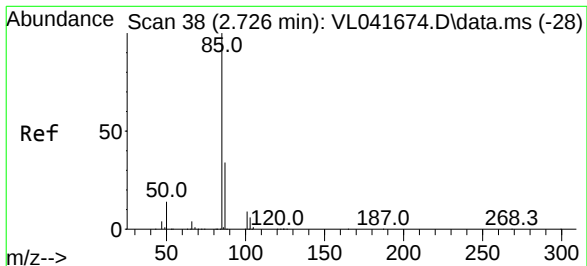
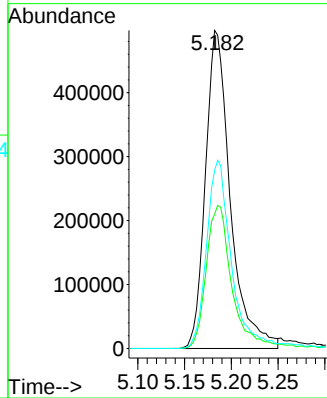
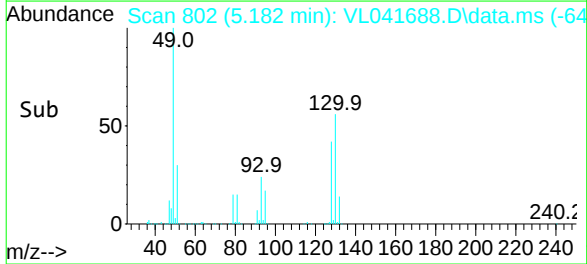
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 920081
Ion Ratio Lower Upper
49 100
128 47.7 23.8 71.2
130 61.0 30.1 90.5

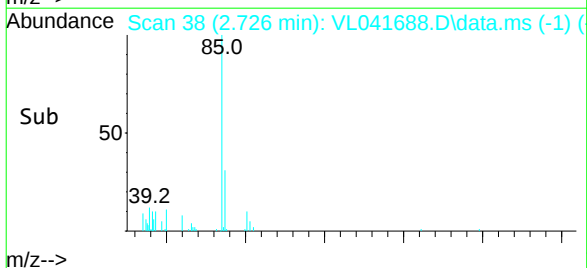
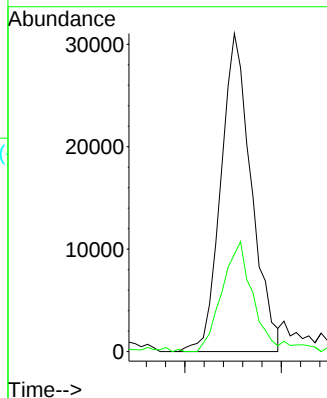
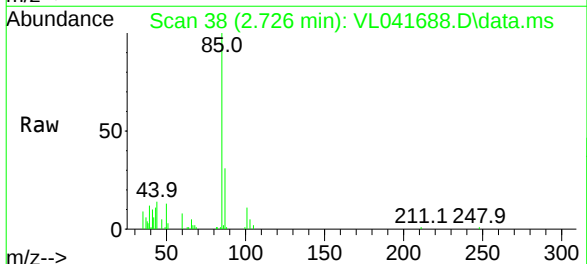
Manual Integrations
APPROVED

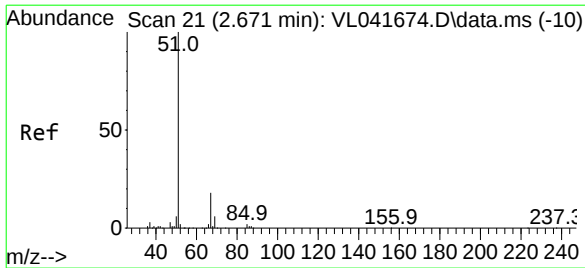
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#2
Dichlorodifluoromethane
Concen: 0.205 ppbv
RT: 2.726 min Scan# 38
Delta R.T. 0.000 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

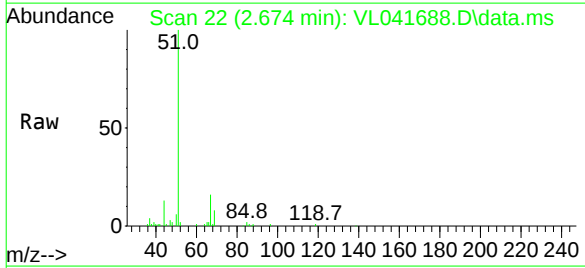
Tgt Ion: 85 Resp: 34120
Ion Ratio Lower Upper
85 100
87 29.8 26.8 40.2





#3
Chlorodifluoromethane
Concen: 0.463 ppbv m
RT: 2.674 min Scan# 22
Delta R.T. 0.003 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

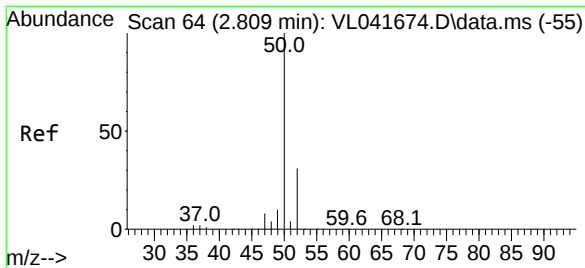
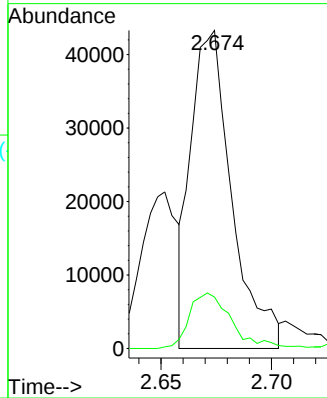
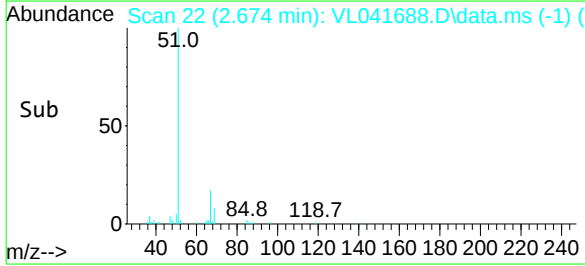
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 55510
Ion Ratio Lower Upper
51 100
67 18.8 13.9 20.9

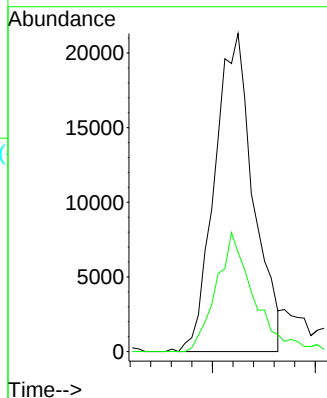
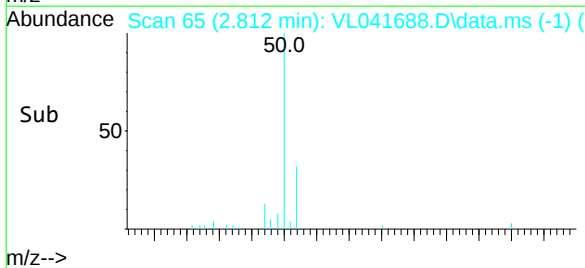
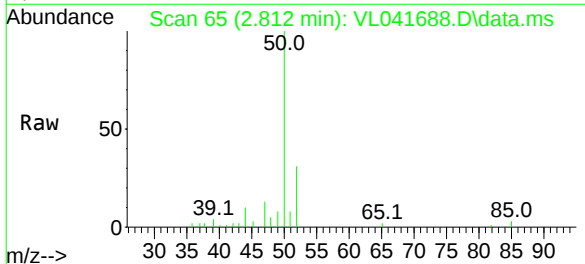
Manual Integrations
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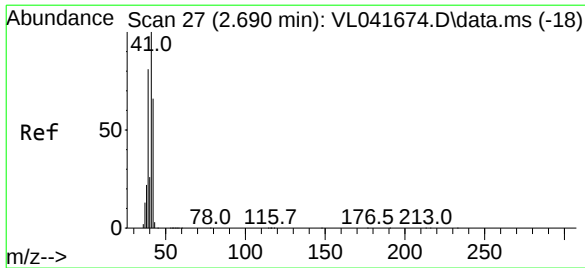
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#4
Chloromethane
Concen: 0.439 ppbv
RT: 2.812 min Scan# 65
Delta R.T. 0.003 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

Tgt Ion: 50 Resp: 27853
Ion Ratio Lower Upper
50 100
52 31.2 24.9 37.3





#9

Propene

Concen: 0.742 ppbv

RT: 2.703 min Scan# 31

Delta R.T. 0.013 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 38769

Ion Ratio Lower Upper

41 100

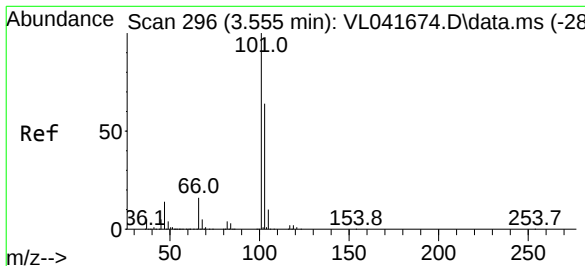
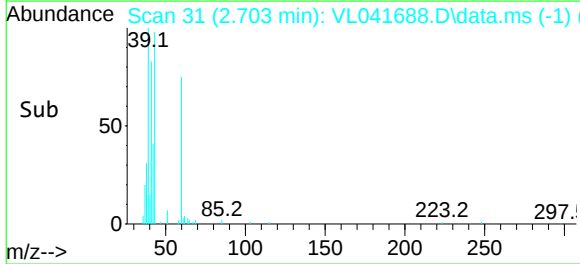
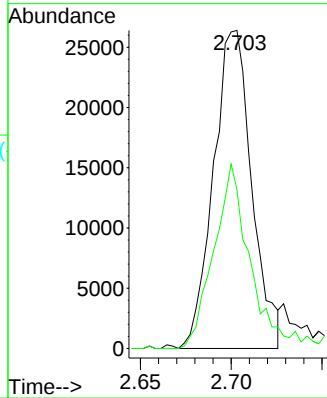
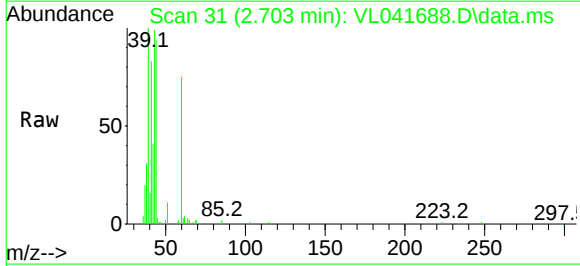
42 57.4 55.0 82.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#11

Trichlorofluoromethane

Concen: 0.213 ppbv

RT: 3.558 min Scan# 297

Delta R.T. 0.003 min

Lab File: VL041688.D

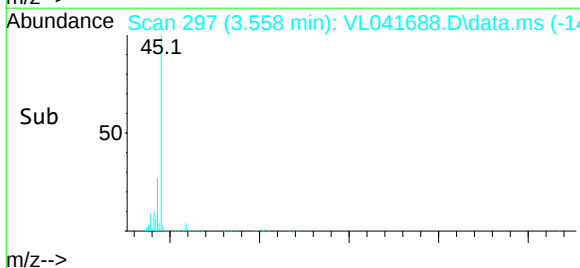
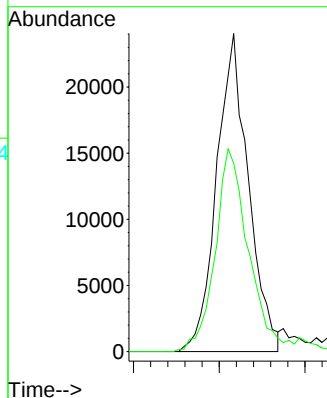
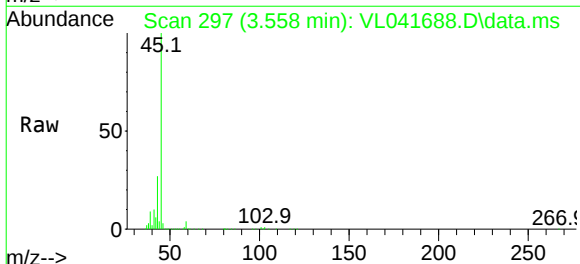
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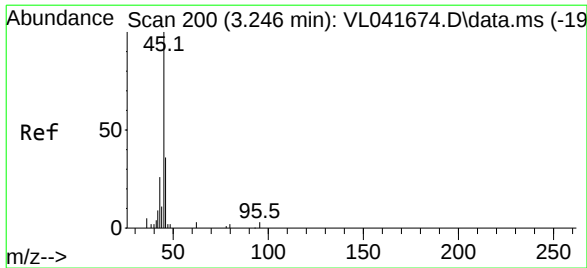
Tgt Ion:101 Resp: 30913

Ion Ratio Lower Upper

101 100

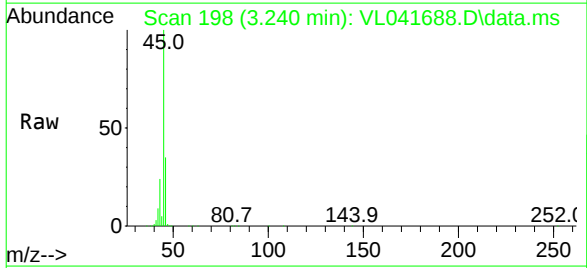
103 58.6 51.0 76.6





#13
Ethanol
Concen: 818.930 ppbv
RT: 3.240 min Scan# 19
Delta R.T. -0.006 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

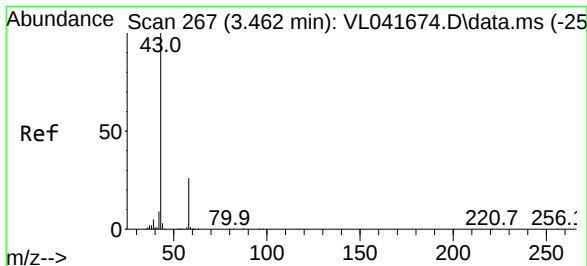
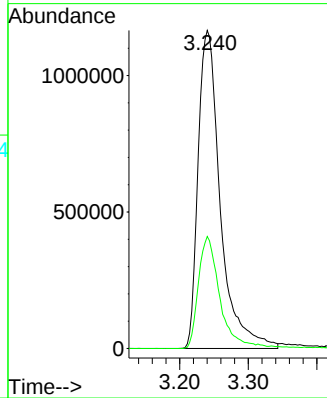
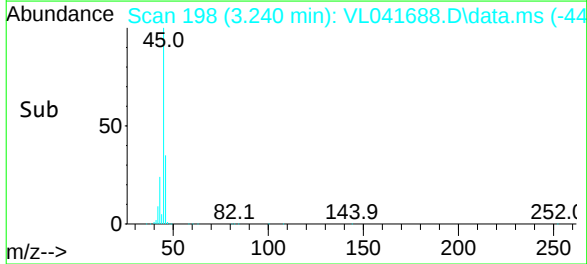
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 2619322
Ion Ratio Lower Upper
45 100
46 35.0 13.8 55.2

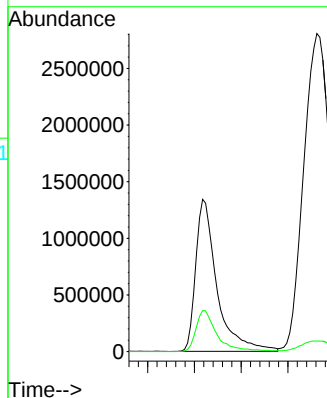
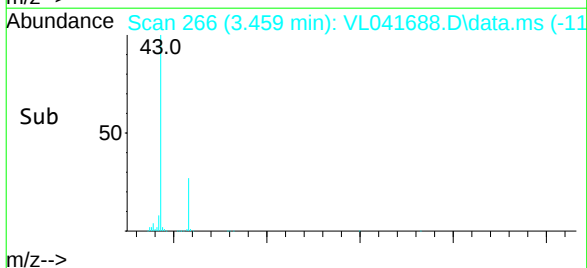
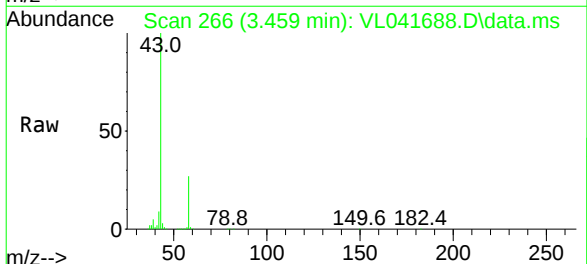
Manual Integrations
APPROVED

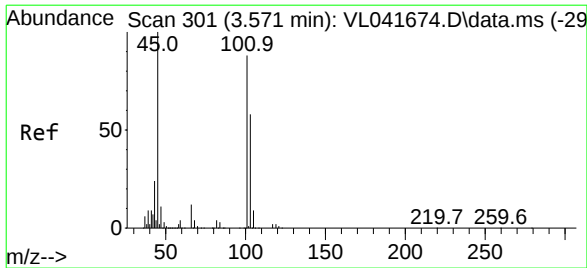
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#15
Acetone
Concen: 18.737 ppbv
RT: 3.459 min Scan# 266
Delta R.T. -0.003 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

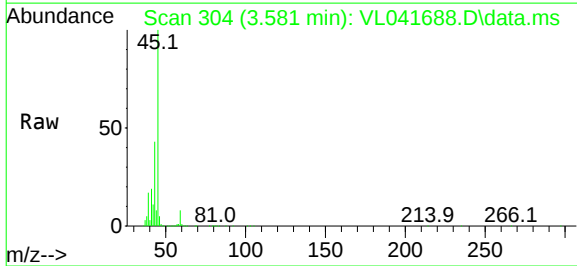
Tgt Ion: 43 Resp: 2121677
Ion Ratio Lower Upper
43 100
58 26.7 21.4 32.0





#19
Isopropyl Alcohol
Concen: 343.117 ppbv
RT: 3.581 min Scan# 301
Delta R.T. 0.010 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

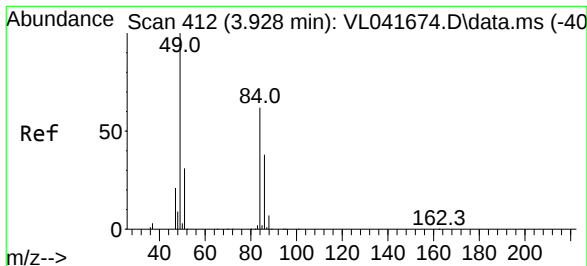
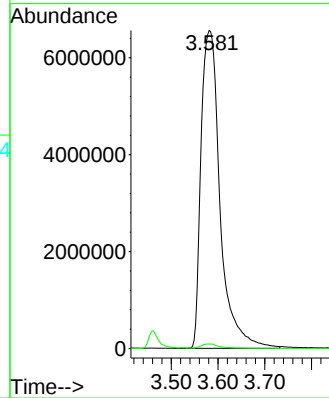
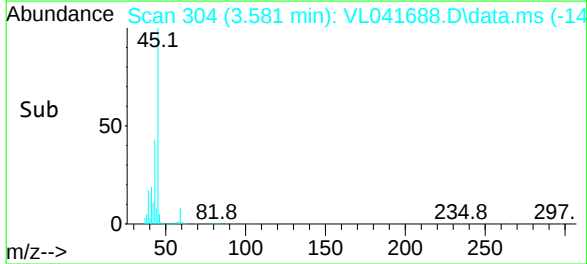
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp:18570689
Ion Ratio Lower Upper
45 100
58 1.5 2.5 3.7#

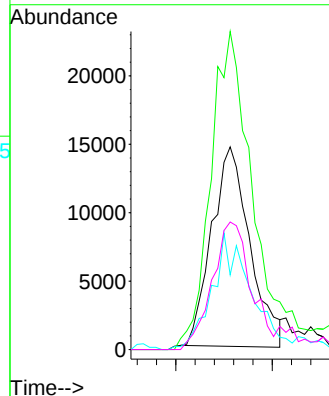
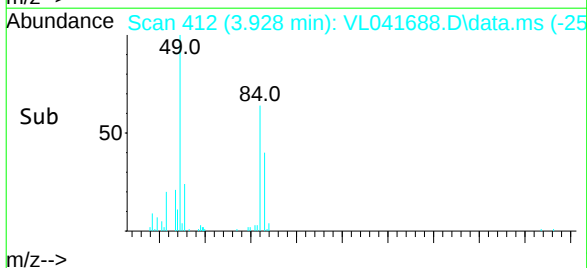
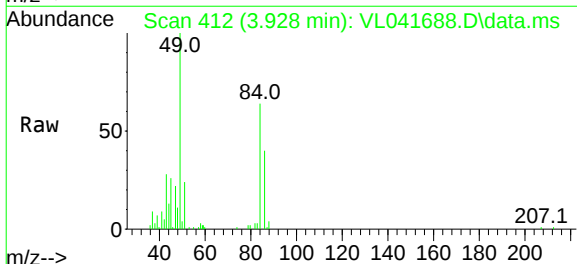
Manual Integrations
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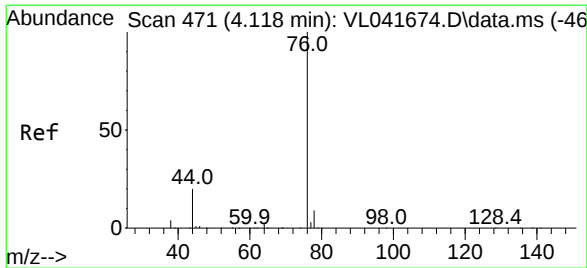
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#20
Methylene Chloride
Concen: 0.482 ppbv
RT: 3.928 min Scan# 412
Delta R.T. 0.000 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

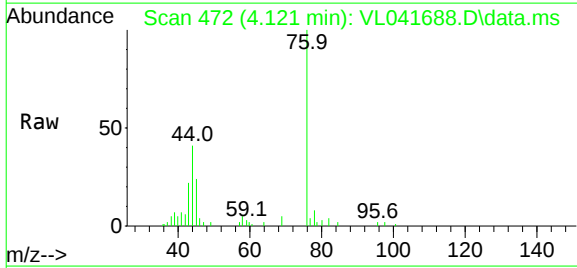
Tgt Ion: 84 Resp: 20096
Ion Ratio Lower Upper
84 100
49 152.1 129.7 194.5
51 36.1 39.8 59.6#
86 63.1 49.1 73.7





#27
Carbon Disulfide
Concen: 0.227 ppbv
RT: 4.121 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

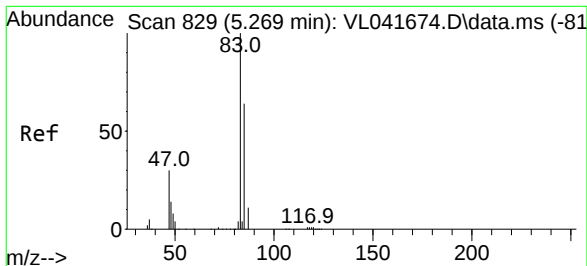
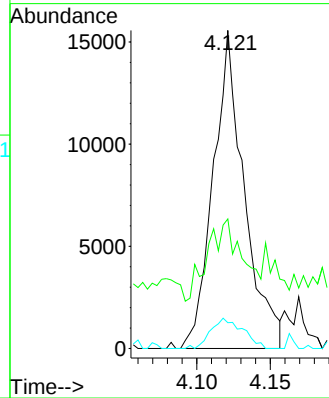
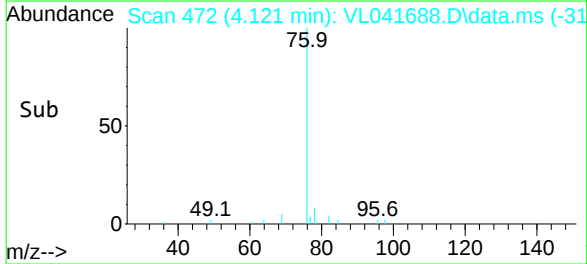
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 76 Resp: 22947
Ion Ratio Lower Upper
76 100
44 39.3 15.8 23.8#
78 9.8 7.5 11.3

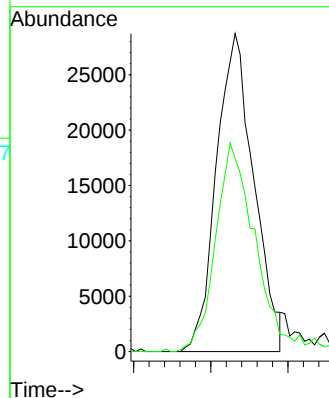
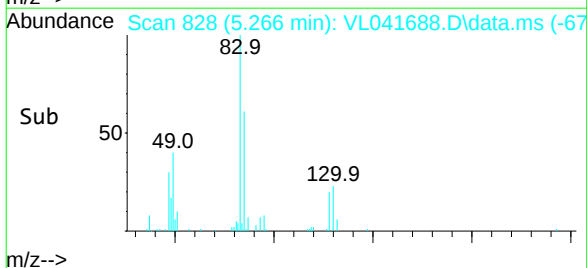
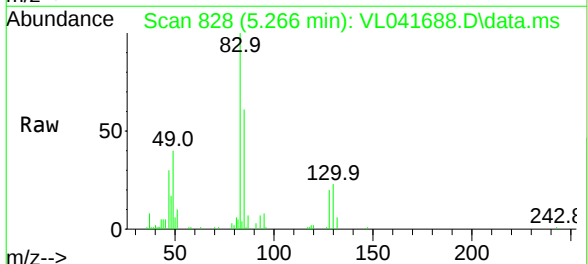
Manual Integrations
APPROVED

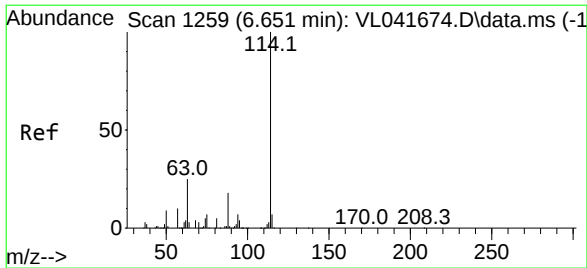
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#29
Chloroform
Concen: 0.325 ppbv
RT: 5.266 min Scan# 828
Delta R.T. -0.003 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

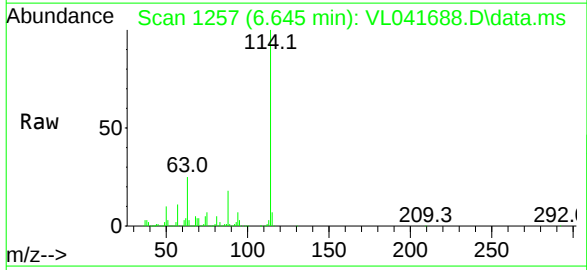
Tgt Ion: 83 Resp: 48363
Ion Ratio Lower Upper
83 100
85 60.1 51.1 76.7





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.006 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

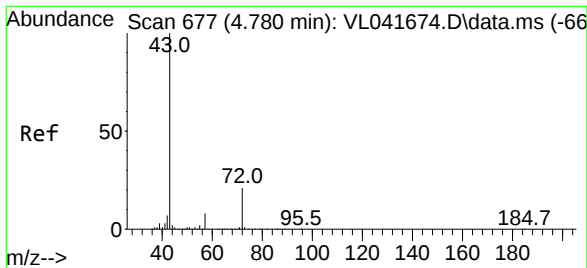
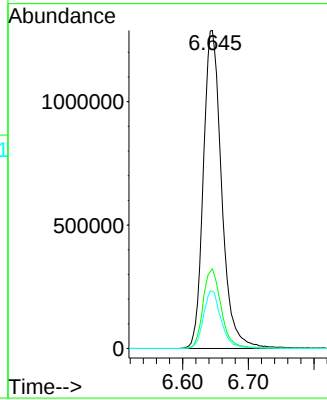
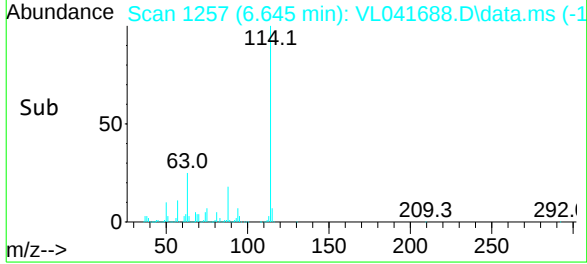
Instrument :
MSVOA_L
ClientSampleId :
IA1



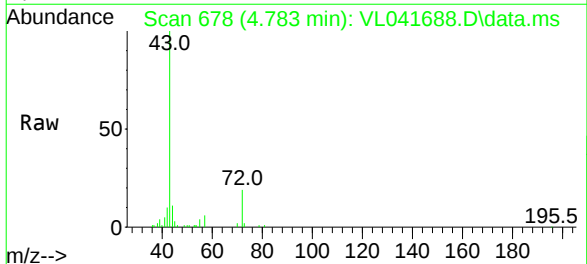
Tgt Ion:114 Resp: 2493857
Ion Ratio Lower Upper
114 100
63 24.9 20.3 30.5
88 17.6 14.2 21.4

Manual Integrations
APPROVED

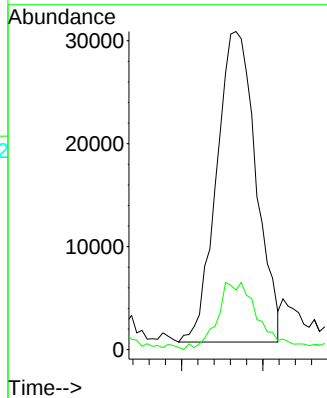
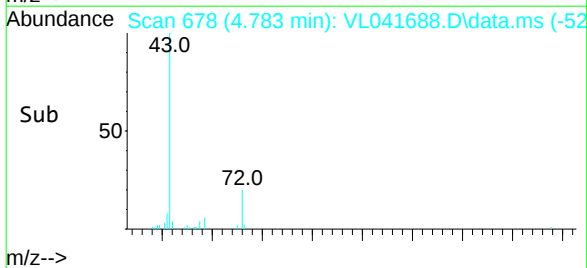
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

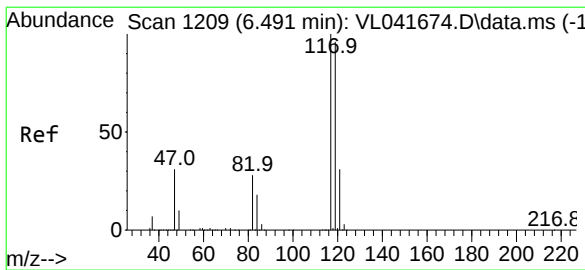


#34
2-Butanone
Concen: 0.410 ppbv
RT: 4.783 min Scan# 678
Delta R.T. 0.003 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44



Tgt Ion: 43 Resp: 50932
Ion Ratio Lower Upper
43 100
72 24.7 17.4 26.0





#35

Carbon Tetrachloride

Concen: 0.070 ppbv m

RT: 6.481 min Scan# 12

Delta R.T. -0.010 min

Lab File: VL041688.D

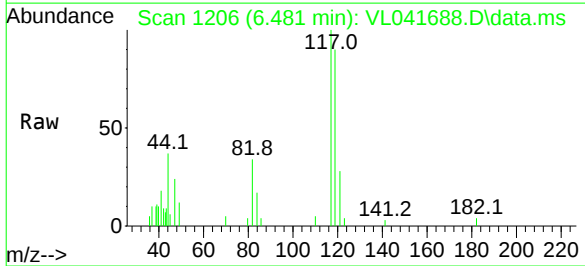
Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

ClientSampleId :

IA1



Tgt Ion: 117 Resp: 9206

Ion Ratio Lower Upper

117 100

119 90.5 77.2 115.8

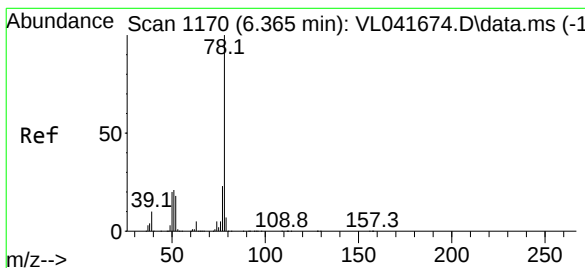
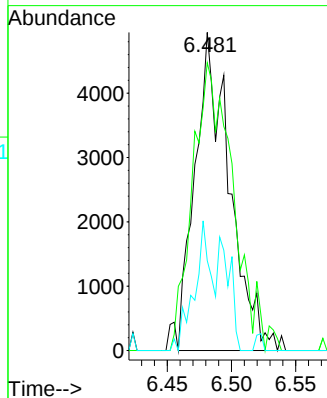
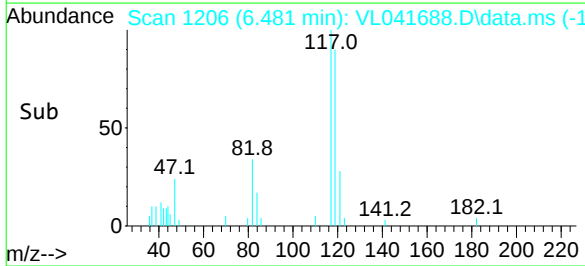
121 28.3 25.0 37.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#36

Benzene

Concen: 0.111 ppbv m

RT: 6.359 min Scan# 1168

Delta R.T. -0.006 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

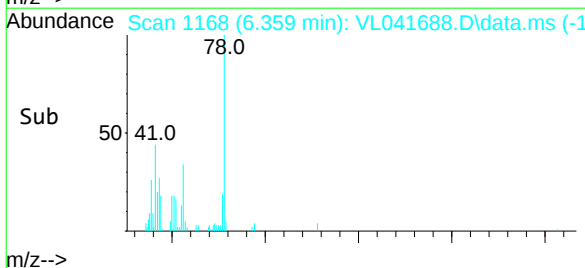
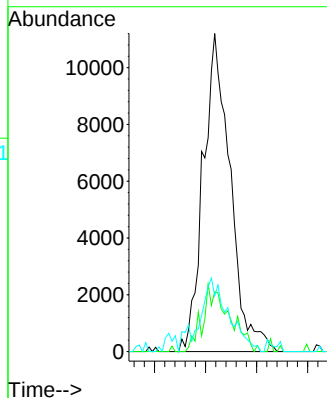
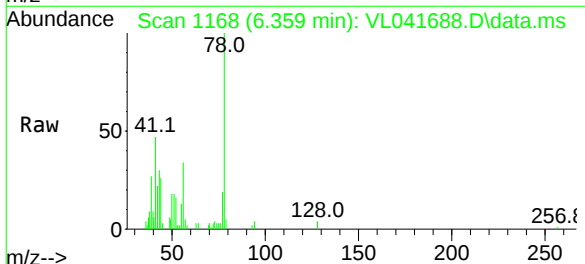
Tgt Ion: 78 Resp: 20597

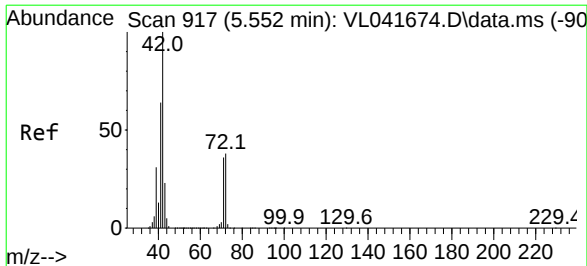
Ion Ratio Lower Upper

78 100

77 18.9 18.5 27.7

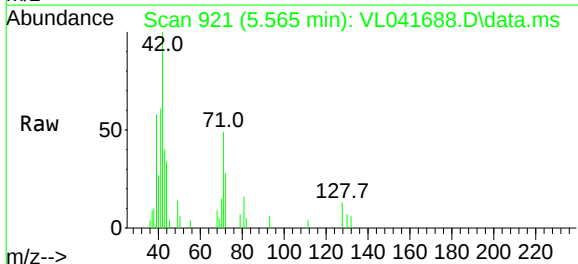
50 17.5 15.6 23.4





#41
Tetrahydrofuran
Concen: 0.155 ppbv m
RT: 5.565 min Scan# 92
Delta R.T. 0.013 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

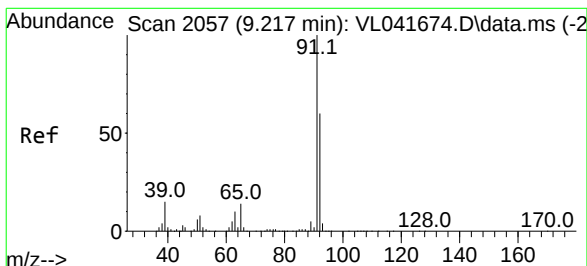
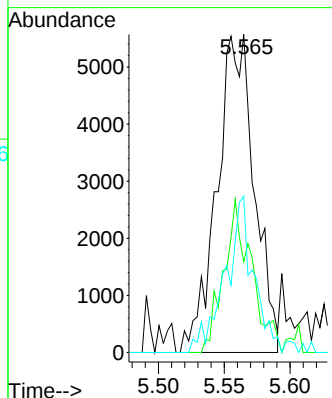
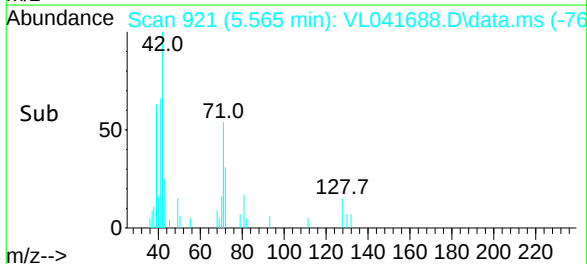
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 42 Resp: 11019
Ion Ratio Lower Upper
42 100
72 38.0 29.8 44.6
71 0.0 29.4 44.2#

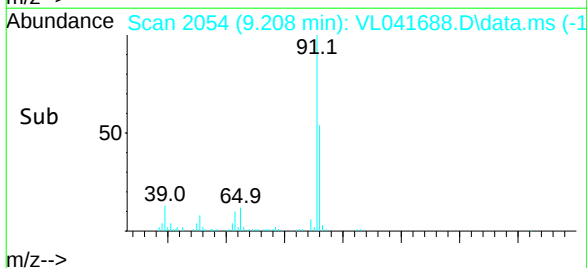
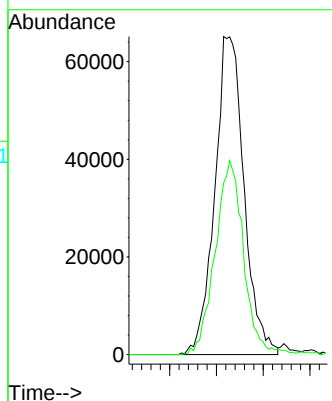
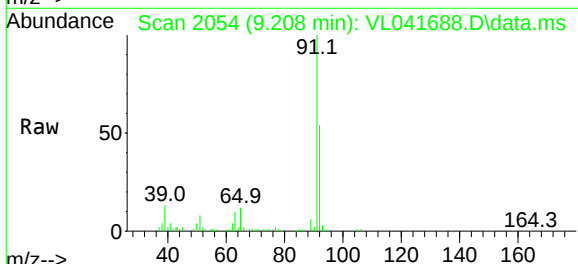
Manual Integrations
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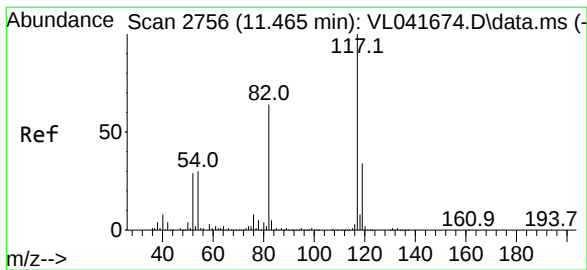
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#53
Toluene
Concen: 0.729 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.010 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

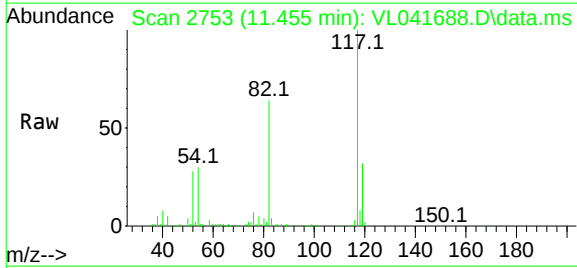
Tgt Ion: 91 Resp: 141574
Ion Ratio Lower Upper
91 100
92 59.2 49.0 73.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2756
Delta R.T. -0.010 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

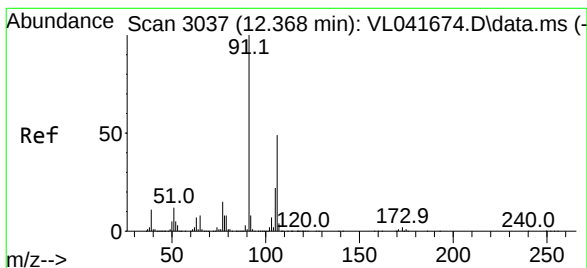
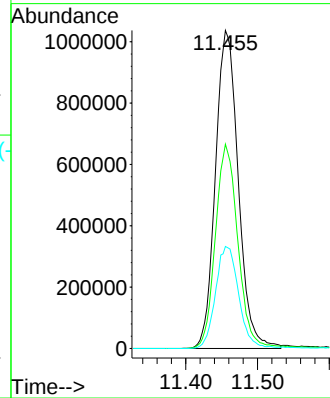
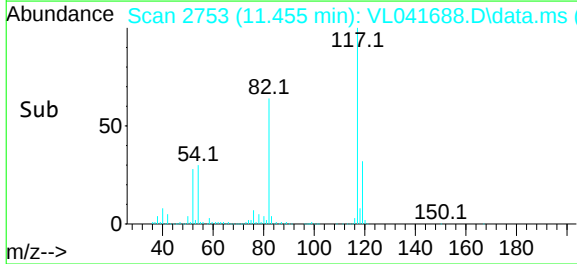
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:117 Resp: 2294846
Ion Ratio Lower Upper
117 100
82 64.1 49.8 74.8
119 32.8 24.2 36.4

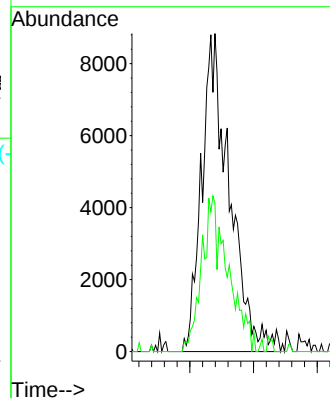
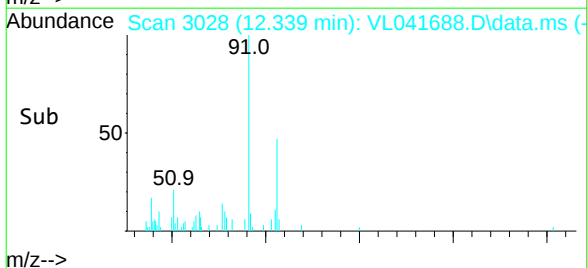
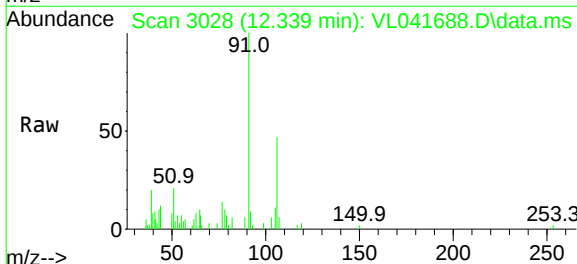
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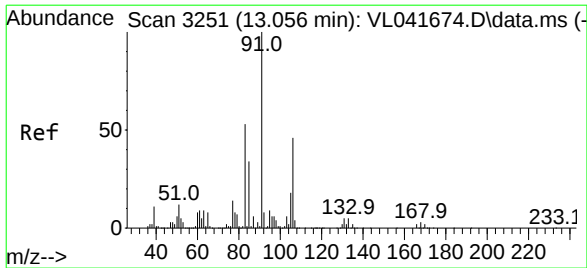
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#59
m/p-Xylene
Concen: 0.119 ppbv m
RT: 12.339 min Scan# 3028
Delta R.T. -0.029 min
Lab File: VL041688.D
Acq: 7 Nov 2024 21:44

Tgt Ion: 91 Resp: 26907
Ion Ratio Lower Upper
91 100
106 0.0 36.9 55.3#





#60

o-Xylene

Concen: 0.124 ppbv m

RT: 13.053 min Scan# 32

Delta R.T. -0.003 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 26641

Ion Ratio Lower Upper

91 100

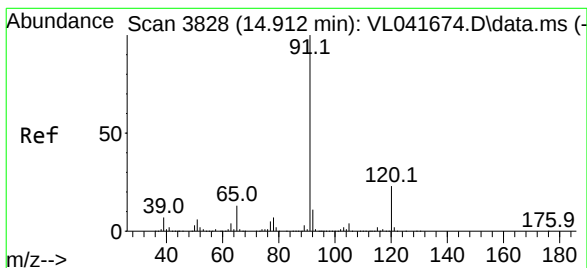
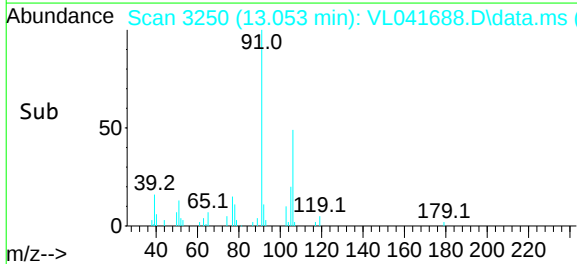
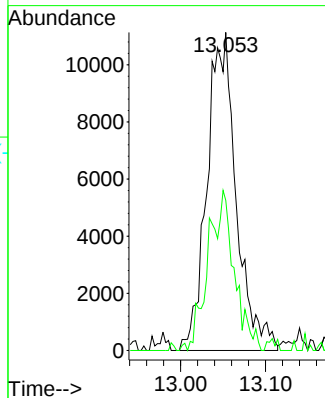
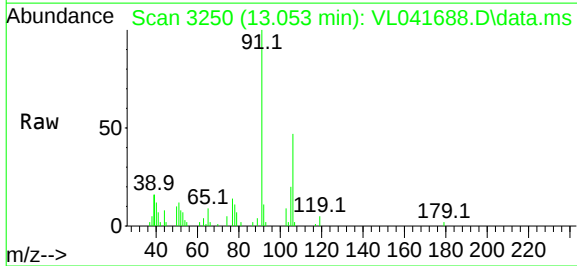
106 0.0 23.2 69.6#

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#64

n-propylbenzene

Concen: 0.209 ppbv m

RT: 14.905 min Scan# 3826

Delta R.T. -0.006 min

Lab File: VL041688.D

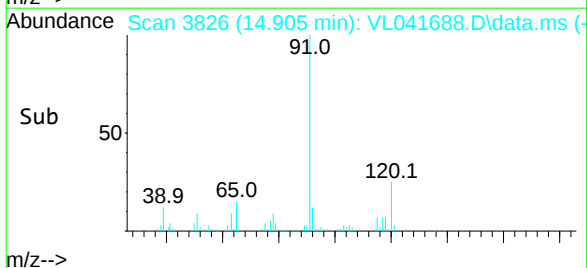
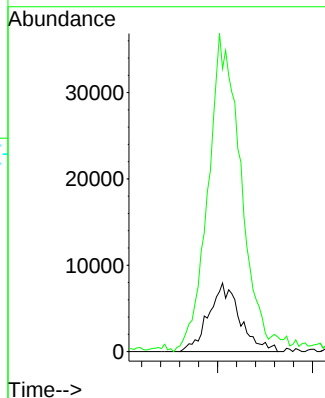
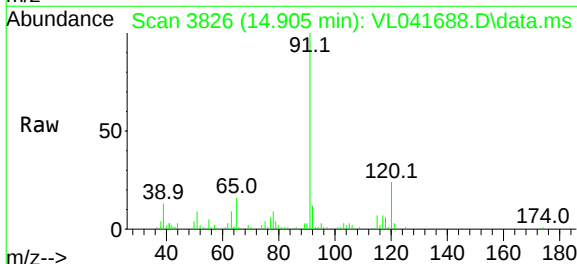
Acq: 7 Nov 2024 21:44

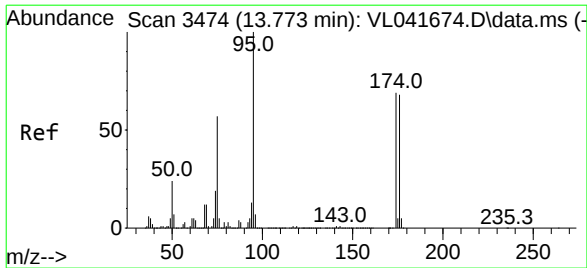
Tgt Ion:120 Resp: 18127

Ion Ratio Lower Upper

120 100

91 498.5 362.4 543.6





#68

1-Bromo-4-Fluorobenzene

Concen: 9.993 ppbv

RT: 13.767 min Scan# 3474

Delta R.T. -0.006 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 95 Resp: 1689750

Ion Ratio Lower Upper

95 100

174 70.2 55.6 83.4

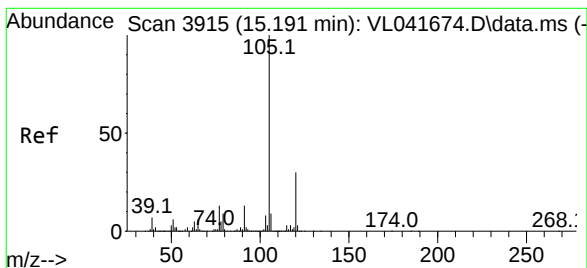
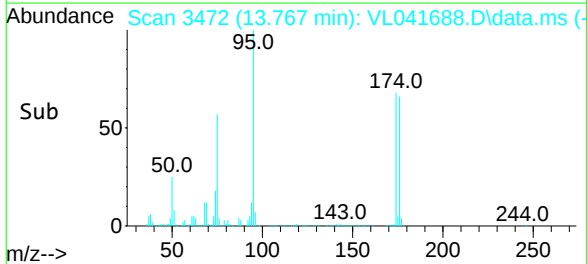
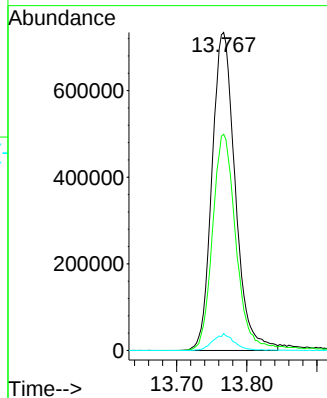
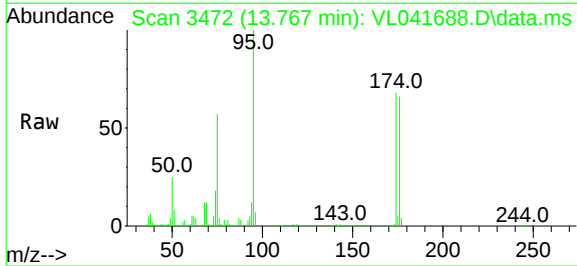
175 5.0 4.2 6.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#72

4-Ethyltoluene

Concen: 0.464 ppbv

RT: 15.182 min Scan# 3912

Delta R.T. -0.010 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Tgt Ion:105 Resp: 115840

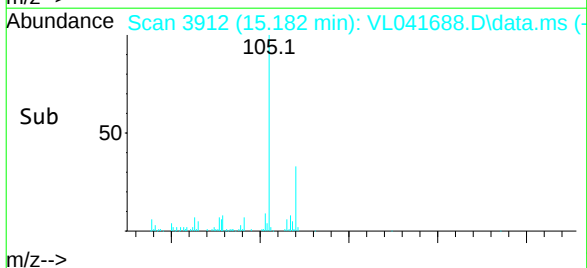
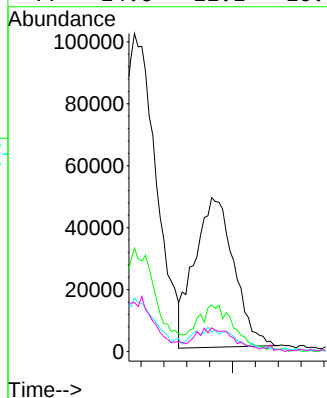
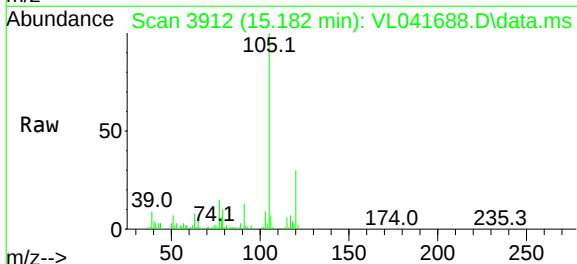
Ion Ratio Lower Upper

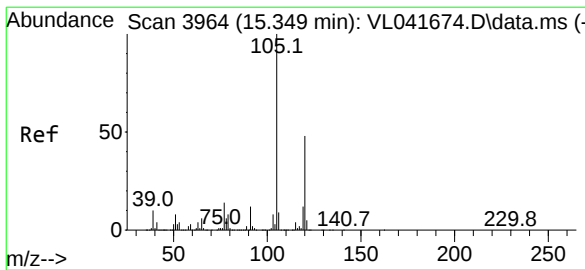
105 100

120 31.6 25.0 37.4

91 16.3 10.6 15.8#

77 14.6 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 0.360 ppbv m

RT: 15.339 min Scan# 39

Delta R.T. -0.010 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:105 Resp: 78872

Ion Ratio Lower Upper

105 100

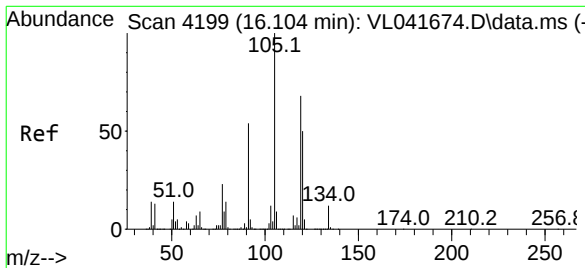
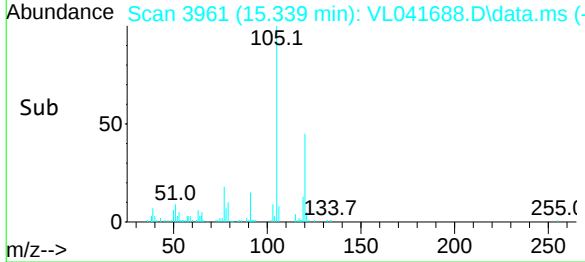
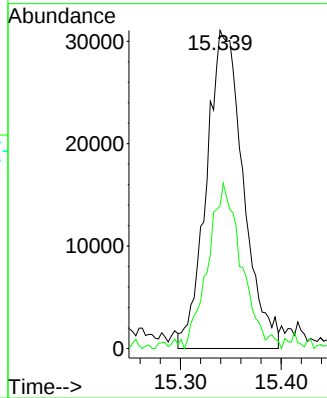
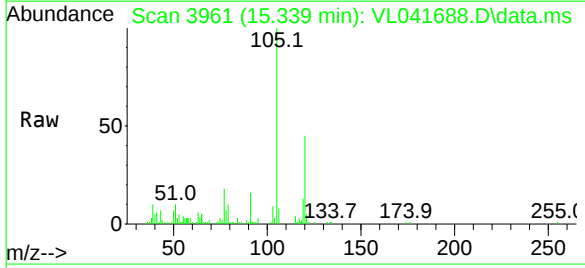
120 44.8 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#74

1,2,4-Trimethylbenzene

Concen: 1.204 ppbv

RT: 16.098 min Scan# 4197

Delta R.T. -0.006 min

Lab File: VL041688.D

Acq: 7 Nov 2024 21:44

Tgt Ion:105 Resp: 306589

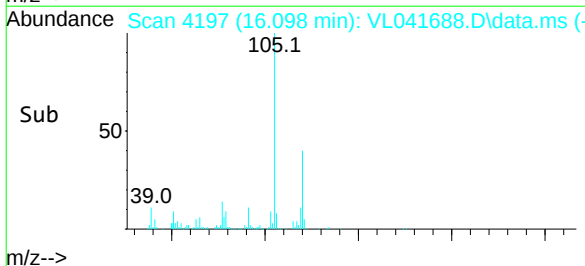
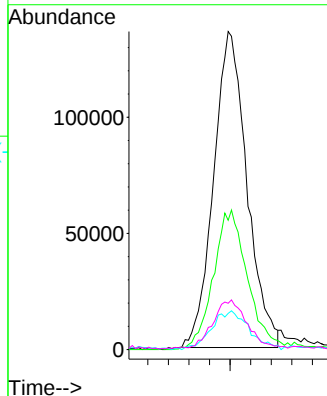
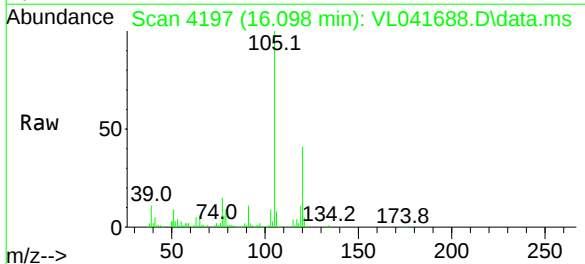
Ion Ratio Lower Upper

105 100

120 40.7 39.8 59.8

91 11.0 43.2 64.8#

77 13.9 18.5 27.7#



Report of Analysis

Client:	GFE LLC	Date Collected:	11/03/24
Project:	3594 E Tremont Ave, Bronx NY	Date Received:	11/04/24
Client Sample ID:	SV1	SDG No.:	P4696
Lab Sample ID:	P4696-02	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
VL041685.D	2		11/07/24 19:44	VL110724

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.15	ug/m3
142-82-5	Heptane	0.65	2.66	J	0.90	4.10	ug/m3
75-35-4	1,1-Dichloroethene	0.28	1.11	U	1.11	3.96	ug/m3
110-82-7	Cyclohexane	0.44	1.51	U	1.51	3.44	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.18	0.71	U	0.71	3.96	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.33	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.20	0.93	U	0.93	4.67	ug/m3
71-43-2	Benzene	0.29	0.93	J	0.54	3.19	ug/m3
107-06-2	1,2-Dichloroethane	0.18	0.73	U	0.73	4.05	ug/m3
79-01-6	Trichloroethene	0.030	0.16	U	0.16	0.32	ug/m3
108-88-3	Toluene	1.50	5.65		0.83	3.77	ug/m3
127-18-4	Tetrachloroethene	0.22	1.49		0.20	0.41	ug/m3
100-41-4	Ethyl Benzene	0.24	1.04	U	1.04	4.34	ug/m3
179601-23-1	m/p-Xylene	0.44	1.91	J	1.82	8.69	ug/m3
95-47-6	o-Xylene	0.37	1.61	J	1.04	4.34	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.38	1.87	J	1.08	4.92	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.10	5.41		0.79	4.92	ug/m3
91-20-3	Naphthalene	0.15	0.79	U	0.79	1.05	ug/m3
110-54-3	Hexane	1.40	4.93		0.78	3.52	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	998000		5.185			
540-36-3	1,4-Difluorobenzene	2740000		6.645			
3114-55-4	Chlorobenzene-d5	2460000		11.45			

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\VL110724\
 Data File : VL041685.D
 Acq On : 7 Nov 2024 19:44
 Operator : SY/MD
 Sample : P4696-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 03:52:53 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	997762	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2739725	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2460095	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1817731	10.028	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.300%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.722	85	49514	0.275	ppbv	94
4) Chloromethane	2.806	50	11659	0.169	ppbv	96
9) Propene	2.700	41	126368	2.231	ppbv #	78
10) Heptane	7.571	43	41446	0.327	ppbv	88
11) Trichlorofluoromethane	3.552	101	16384m	0.104	ppbv	
13) Ethanol	3.234	45	886981	255.724	ppbv	100
15) Acetone	3.455	43	5965604	48.581	ppbv	95
17) tert-Butyl alcohol	3.877	59	99243m	0.921	ppbv	
19) Isopropyl Alcohol	3.571	45	7037090	119.897	ppbv #	97
20) Methylene Chloride	3.928	84	14015	0.310	ppbv	97
26) Hexane	5.208	57	66127	0.677	ppbv #	36
27) Carbon Disulfide	4.121	76	18119	0.165	ppbv #	79
29) Chloroform	5.262	83	16209m	0.101	ppbv	
34) 2-Butanone	4.780	43	430285	3.154	ppbv	99
35) Carbon Tetrachloride	6.484	117	5452m	0.038	ppbv	
36) Benzene	6.362	78	29709m	0.146	ppbv	
51) 2-Hexanone	9.548	43	124925m	0.819	ppbv	
52) Tetrachloroethene	10.603	164	7453m	0.108	ppbv	
53) Toluene	9.214	91	159882	0.749	ppbv	100
59) m/p-Xylene	12.343	91	53649m	0.222	ppbv	
60) o-Xylene	13.047	91	42794m	0.186	ppbv	
72) 4-Ethyltoluene	15.175	105	45726m	0.171	ppbv	
73) 1,3,5-Trimethylbenzene	15.342	105	44079m	0.188	ppbv	
74) 1,2,4-Trimethylbenzene	16.095	105	145310	0.532	ppbv #	71

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

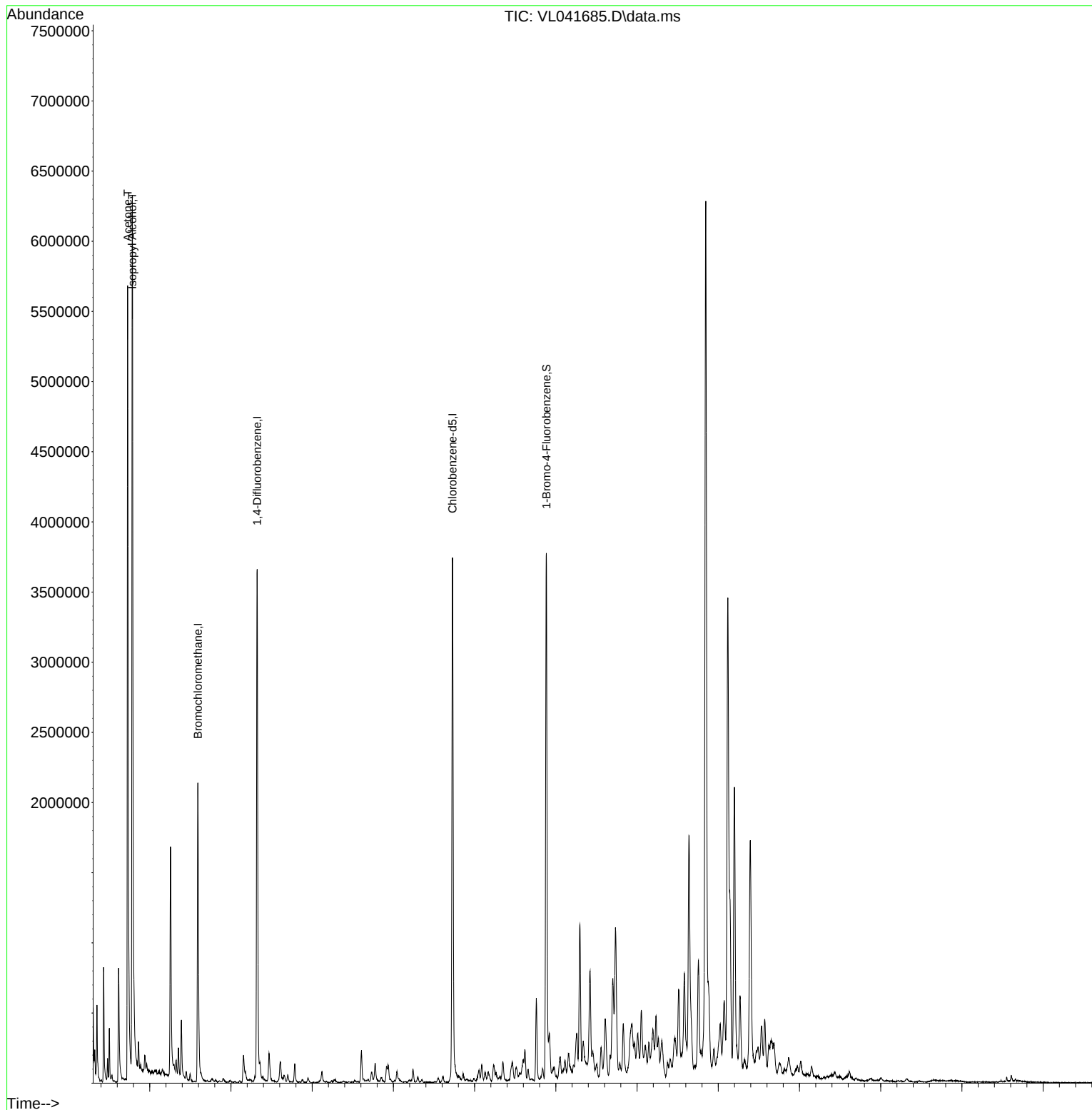
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041685.D
Acq On : 7 Nov 2024 19:44
Operator : SY/MD
Sample : P4696-02 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

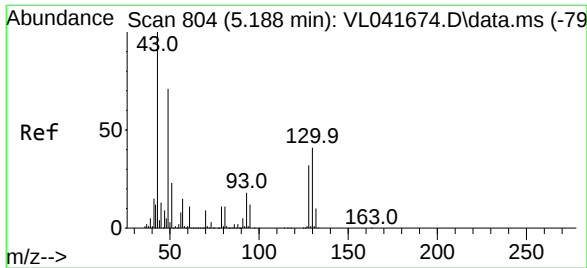
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
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Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 03:52:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Nov 08 01:01:00 2024
Response via : Initial Calibration





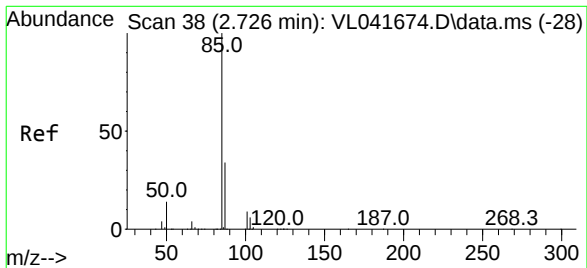
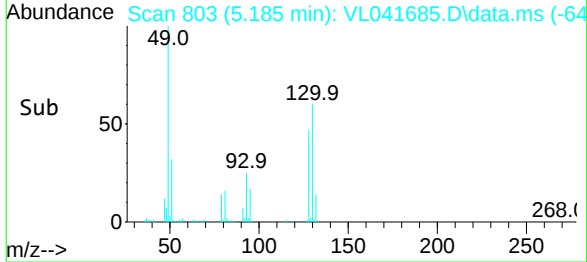
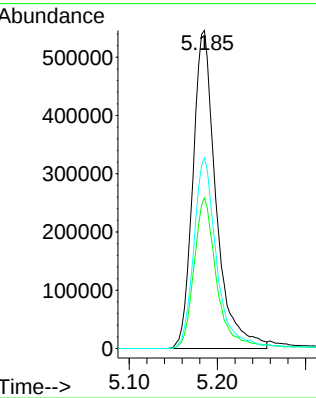
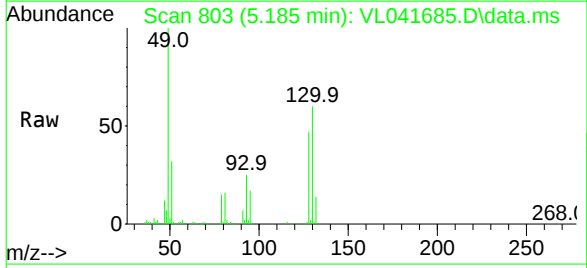
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 997762
Ion Ratio Lower Upper
49 100
128 47.3 23.8 71.2
130 60.5 30.1 90.5

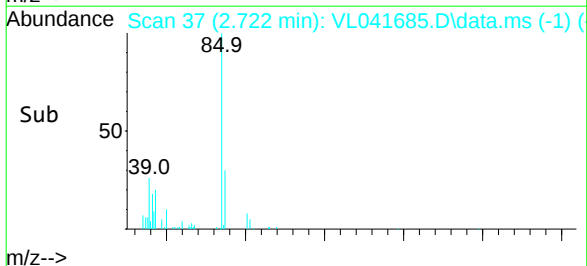
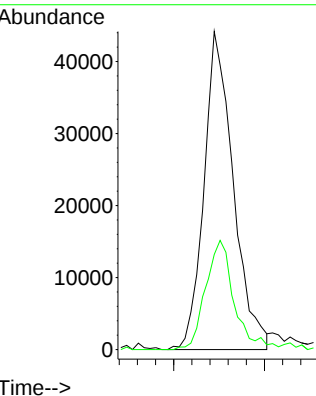
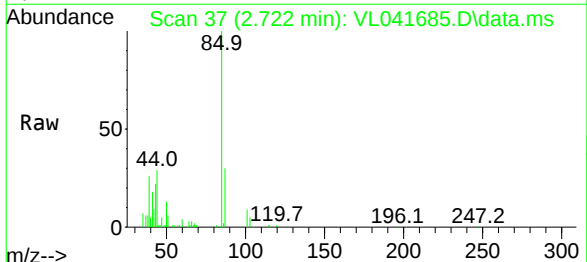
Manual Integrations
APPROVED

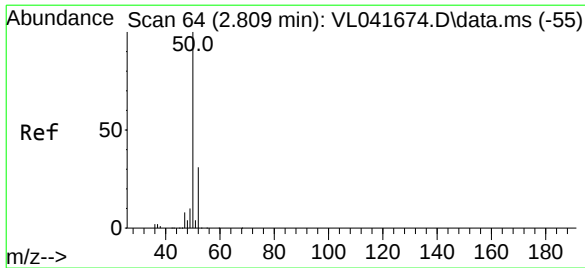
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#2
Dichlorodifluoromethane
Concen: 0.275 ppbv
RT: 2.722 min Scan# 37
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

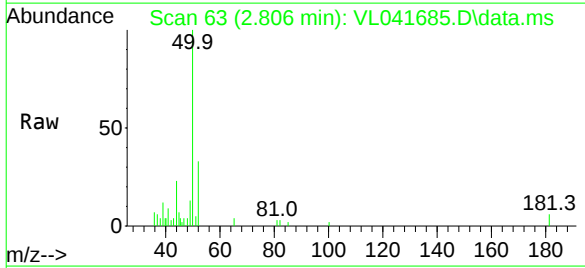
Tgt Ion: 85 Resp: 49514
Ion Ratio Lower Upper
85 100
87 29.9 26.8 40.2





#4
Chloromethane
Concen: 0.169 ppbv
RT: 2.806 min Scan# 63
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

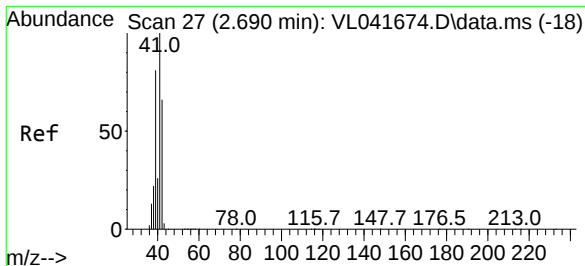
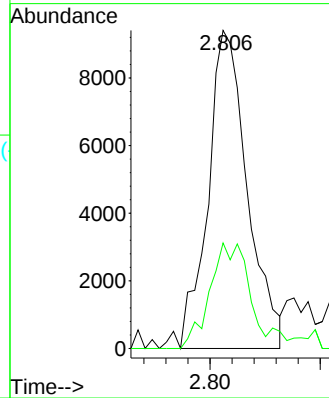
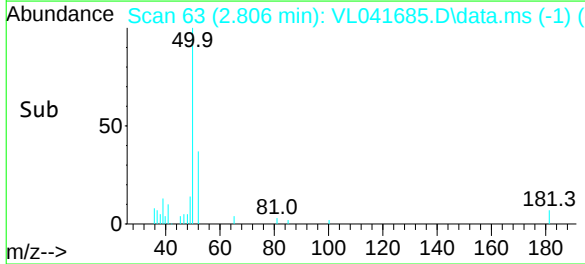
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 50 Resp: 11659
Ion Ratio Lower Upper
50 100
52 33.2 24.9 37.3

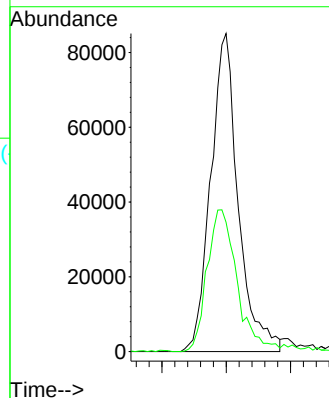
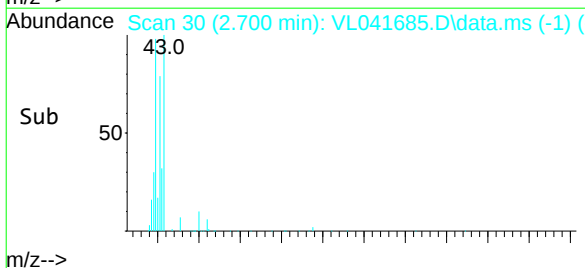
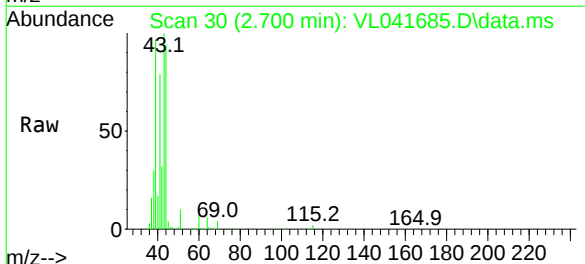
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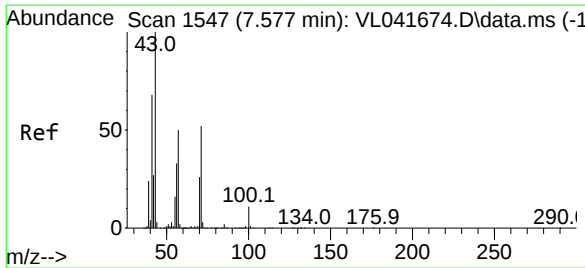
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#9
Propene
Concen: 2.231 ppbv
RT: 2.700 min Scan# 30
Delta R.T. 0.010 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion: 41 Resp: 126368
Ion Ratio Lower Upper
41 100
42 50.7 55.0 82.4





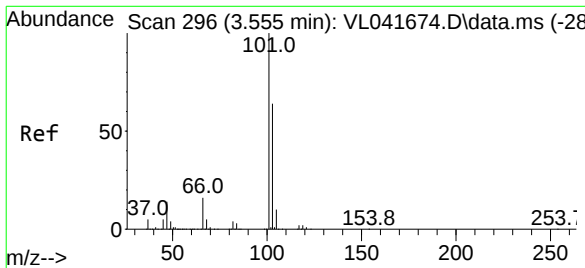
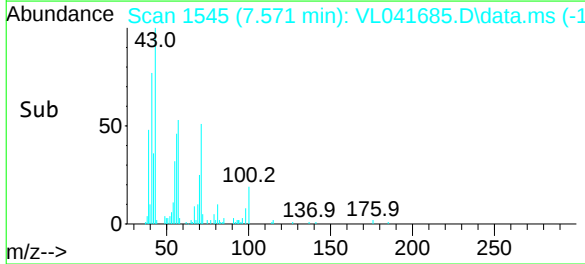
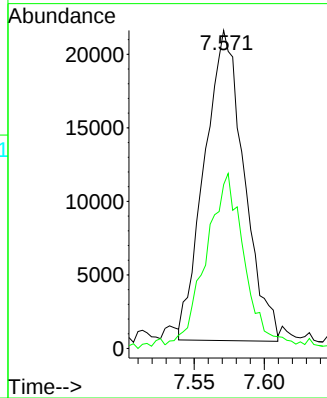
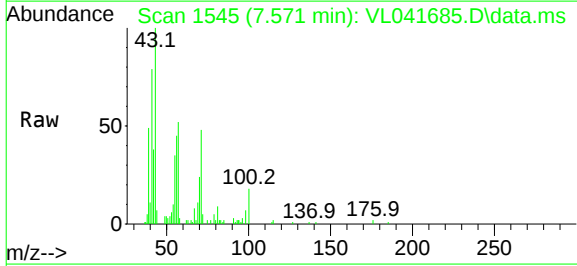
#10
Heptane
Concen: 0.327 ppbv
RT: 7.571 min Scan# 1547
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 41446
Ion Ratio Lower Upper
43 100
57 57.9 40.0 60.0

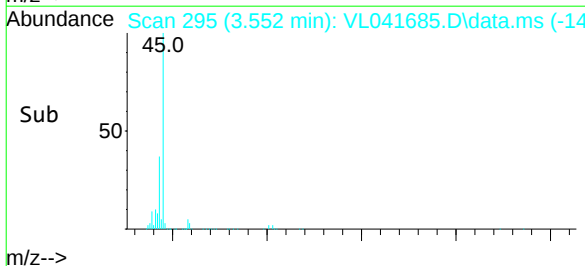
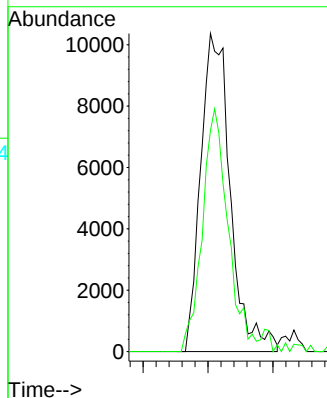
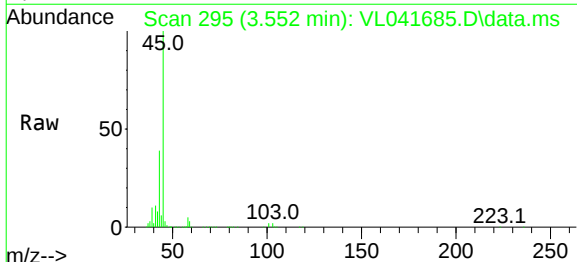
Manual Integrations
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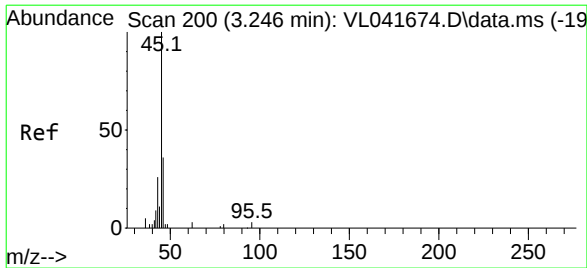
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#11
Trichlorofluoromethane
Concen: 0.104 ppbv m
RT: 3.552 min Scan# 295
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion:101 Resp: 16384
Ion Ratio Lower Upper
101 100
103 69.5 51.0 76.6





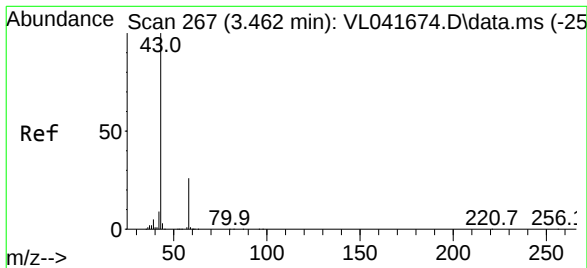
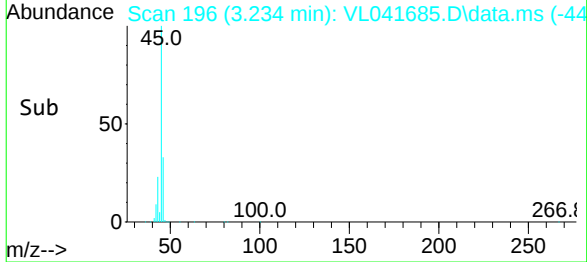
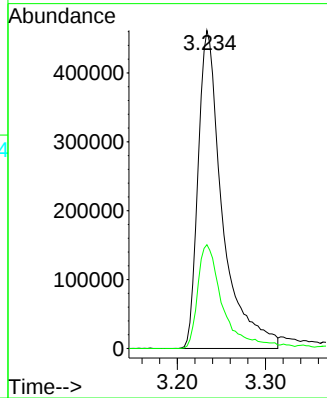
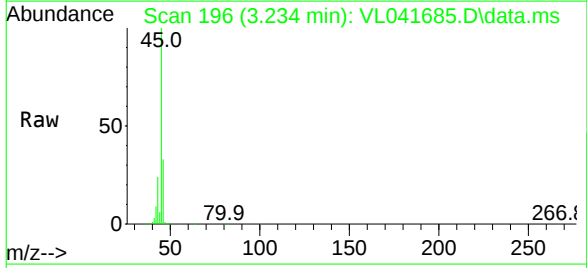
#13
Ethanol
Concen: 255.724 ppbv
RT: 3.234 min Scan# 19
Delta R.T. -0.013 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 886981
Ion Ratio Lower Upper
45 100
46 34.7 13.8 55.2

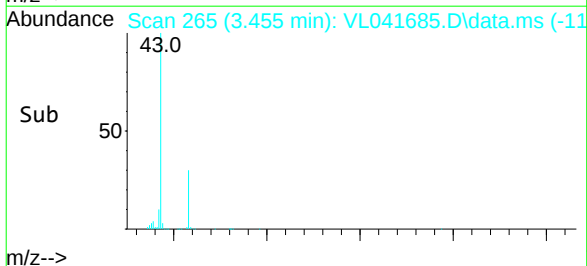
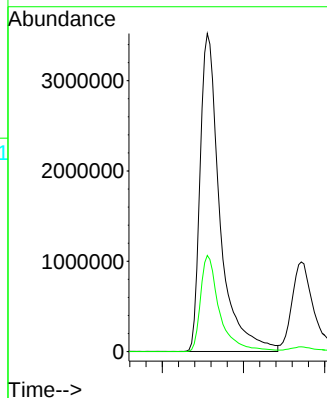
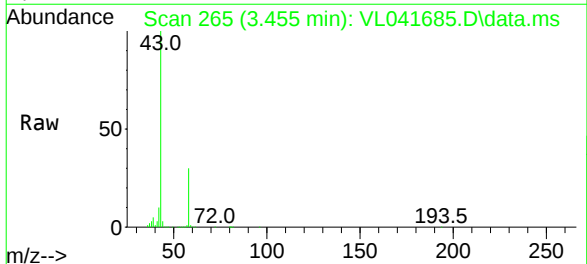
Manual Integrations
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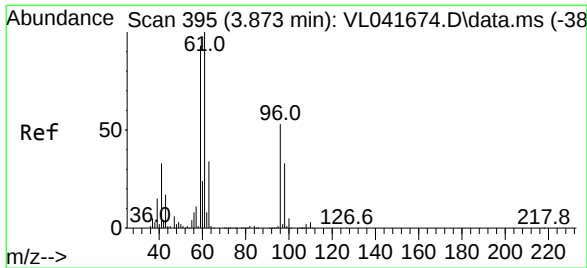
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#15
Acetone
Concen: 48.581 ppbv
RT: 3.455 min Scan# 265
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion: 43 Resp: 5965604
Ion Ratio Lower Upper
43 100
58 29.0 21.4 32.0





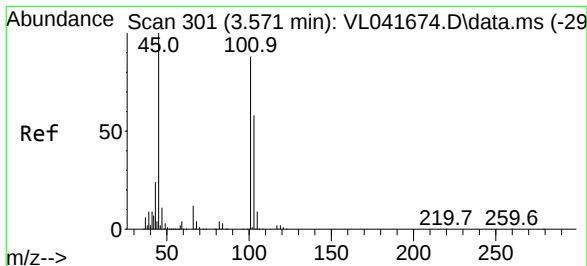
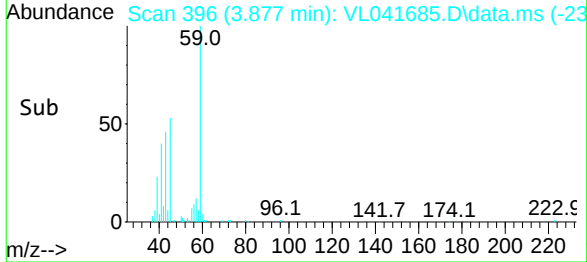
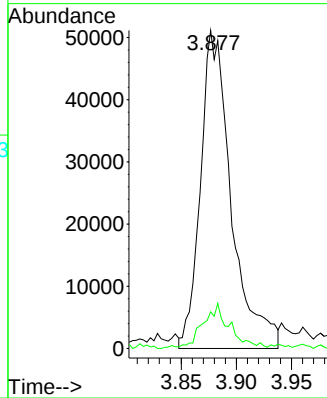
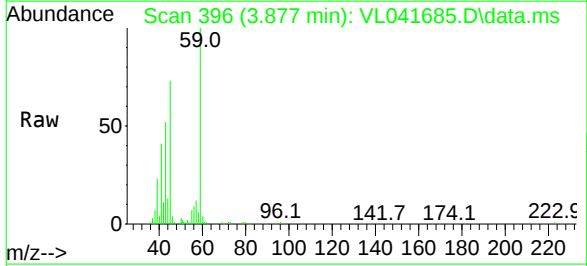
#17
tert-Butyl alcohol
Concen: 0.921 ppbv m
RT: 3.877 min Scan# 395
Delta R.T. 0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 59 Resp: 99243
Ion Ratio Lower Upper
59 100
57 30.6 8.5 12.7#

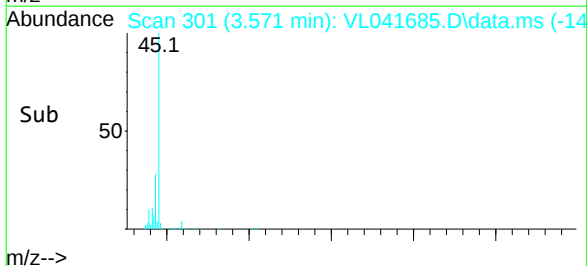
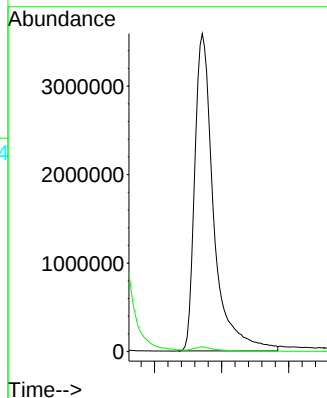
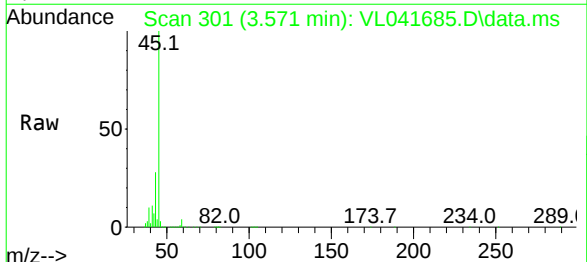
Manual Integrations
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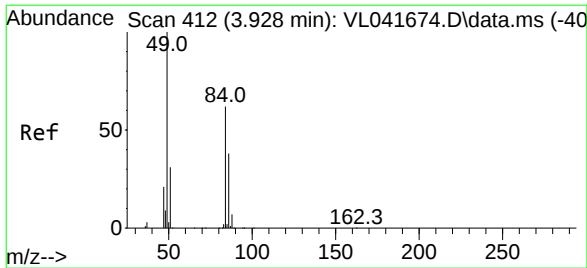
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#19
Isopropyl Alcohol
Concen: 119.897 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.000 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

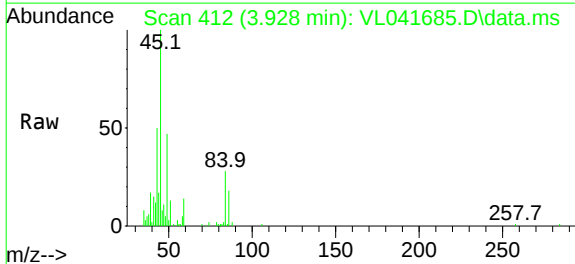
Tgt Ion: 45 Resp: 7037090
Ion Ratio Lower Upper
45 100
58 2.2 2.5 3.7#





#20
Methylene Chloride
Concen: 0.310 ppbv
RT: 3.928 min Scan# 412
Delta R.T. 0.000 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

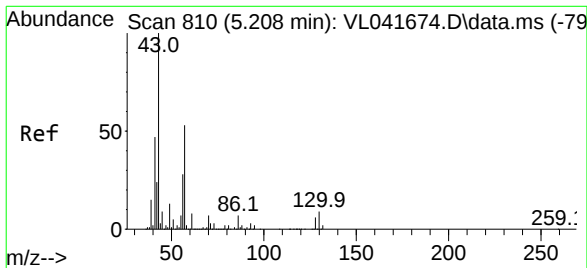
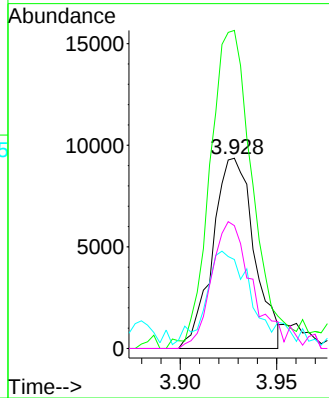
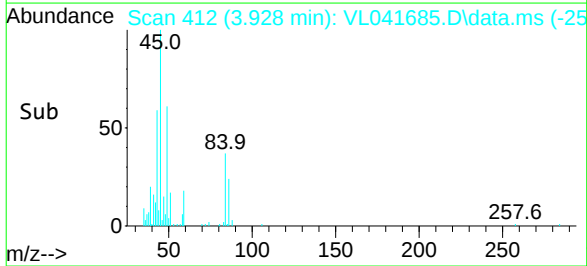
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:	84	Resp:	14015
Ion	Ratio	Lower	Upper
84	100		
49	163.1	129.7	194.5
51	42.3	39.8	59.6
86	64.6	49.1	73.7

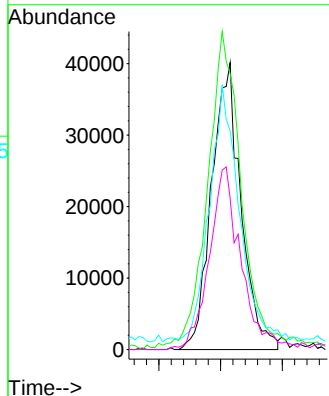
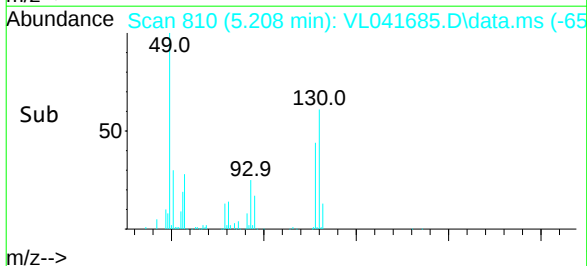
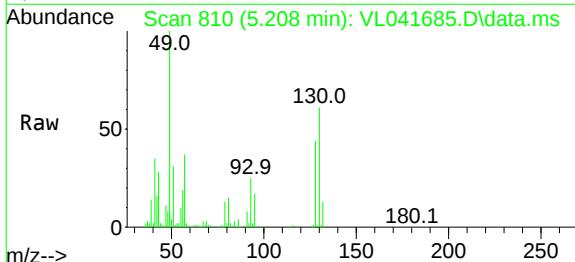
Manual Integrations
APPROVED

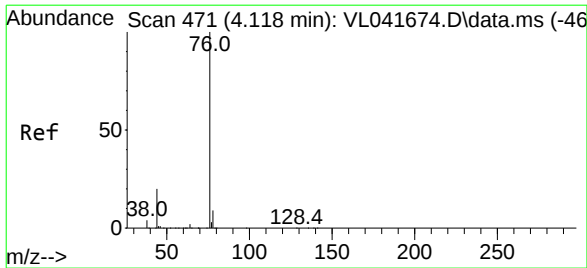
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#26
Hexane
Concen: 0.677 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.000 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion:	57	Resp:	66127
Ion	Ratio	Lower	Upper
57	100		
41	126.2	76.1	114.1#
43	108.9	207.0	310.6#
56	71.0	43.7	65.5#





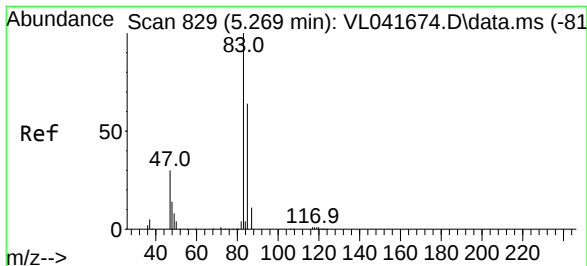
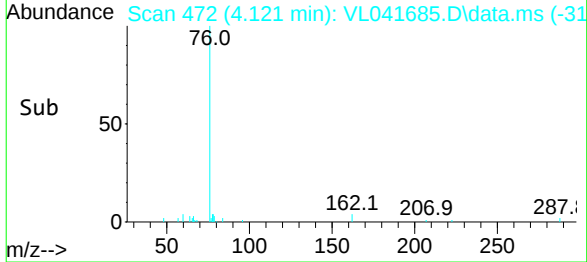
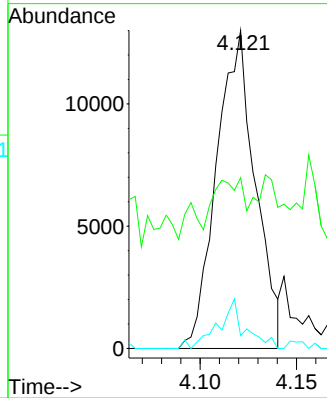
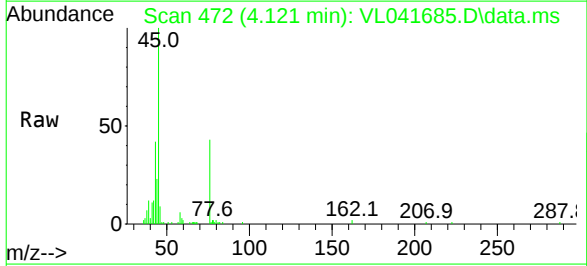
#27
Carbon Disulfide
Concen: 0.165 ppbv
RT: 4.121 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument : MSVOA_L
ClientSampleId : SV1

Tgt Ion: 76 Resp: 18119
Ion Ratio Lower Upper
76 100
44 32.8 15.8 23.8#
78 11.9 7.5 11.3#

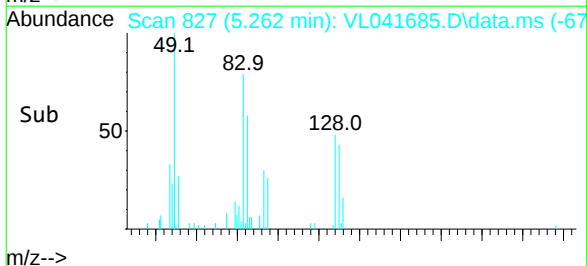
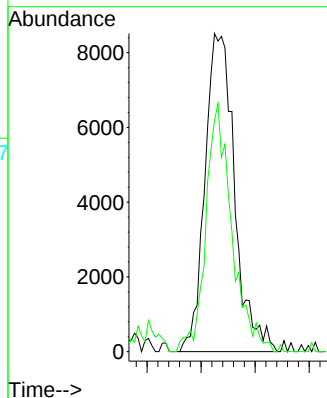
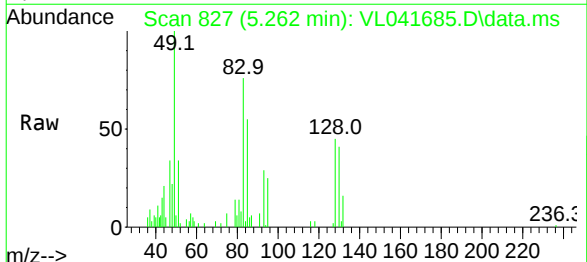
Manual Integrations
APPROVED

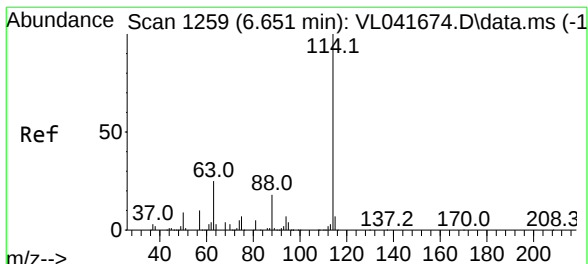
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#29
Chloroform
Concen: 0.101 ppbv m
RT: 5.262 min Scan# 827
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion: 83 Resp: 16209
Ion Ratio Lower Upper
83 100
85 72.8 51.1 76.7





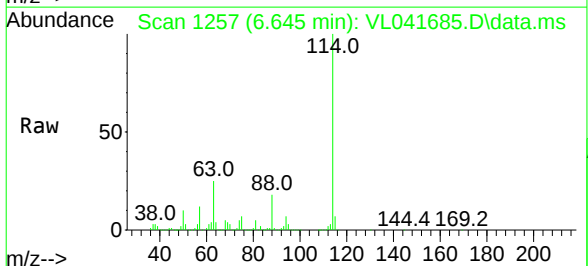
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.645 min Scan# 12
 Delta R.T. -0.006 min
 Lab File: VL041685.D
 Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

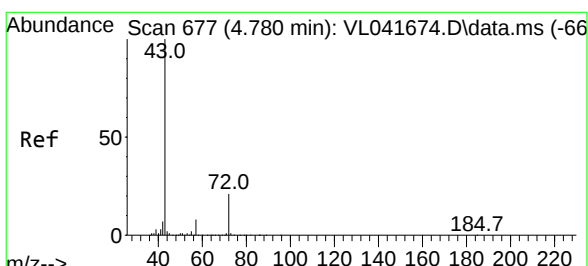
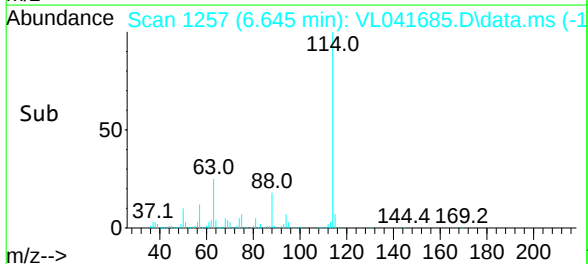
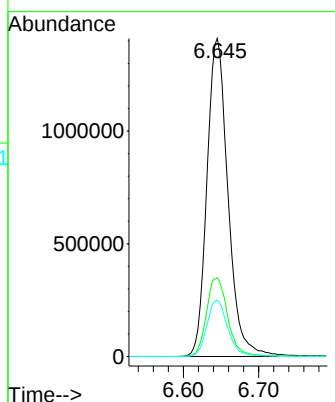


Tgt Ion: 114 Resp: 2739725

Ion	Ratio	Lower	Upper
114	100		
63	25.2	20.3	30.5
88	17.7	14.2	21.4

Manual Integrations
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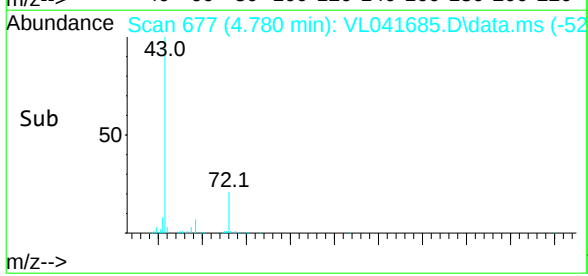
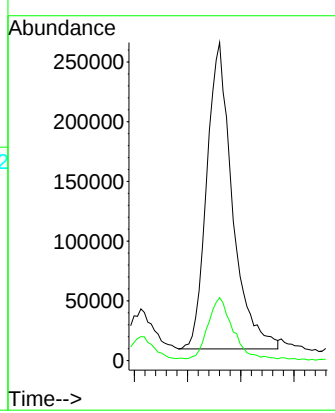
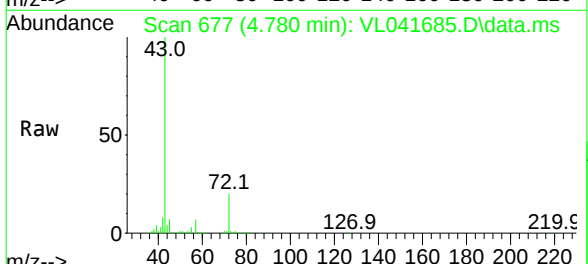
Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

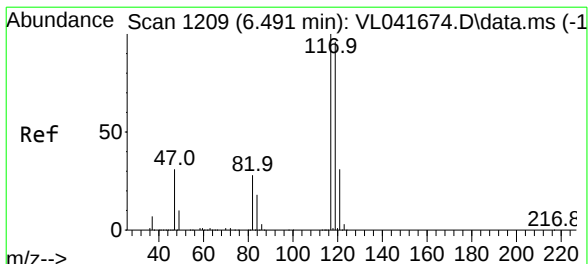


#34
 2-Butanone
 Concen: 3.154 ppbv
 RT: 4.780 min Scan# 677
 Delta R.T. 0.000 min
 Lab File: VL041685.D
 Acq: 7 Nov 2024 19:44

Tgt Ion: 43 Resp: 430285

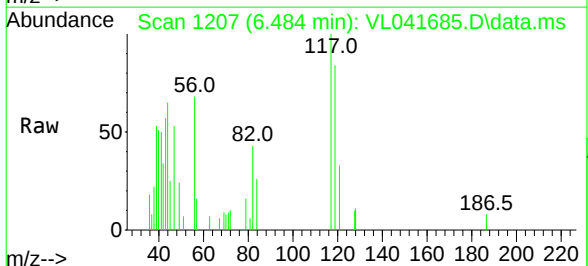
Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.4	26.0





#35
Carbon Tetrachloride
Concen: 0.038 ppbv m
RT: 6.484 min Scan# 1207
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Instrument : MSVOA_L
ClientSampleId : SV1

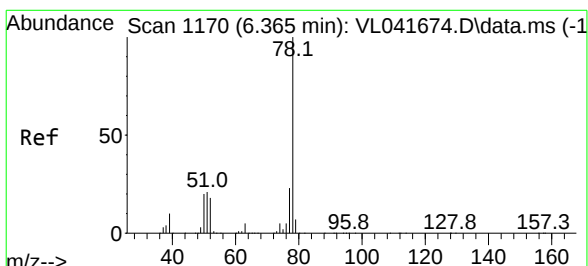
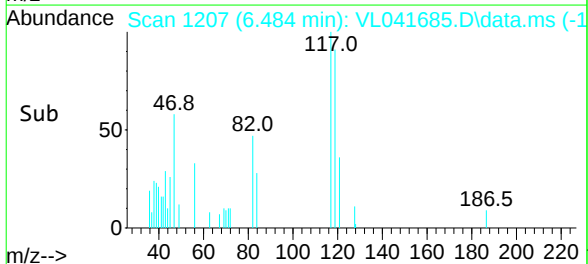
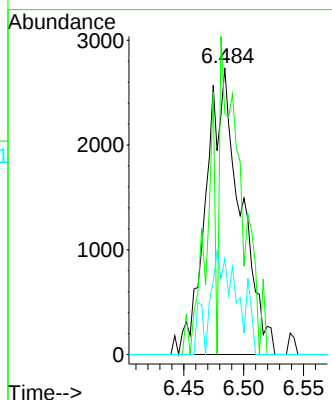


Tgt Ion: 117 Resp: 5452

Ion	Ratio	Lower	Upper
117	100		
119	84.1	77.2	115.8
121	33.5	25.0	37.4

Manual Integrations
APPROVED

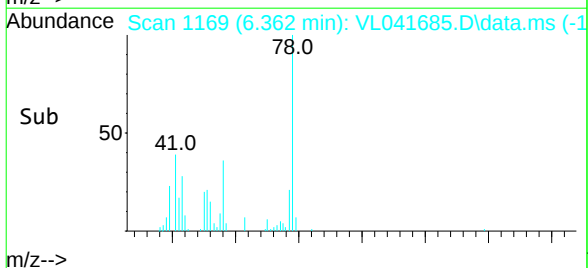
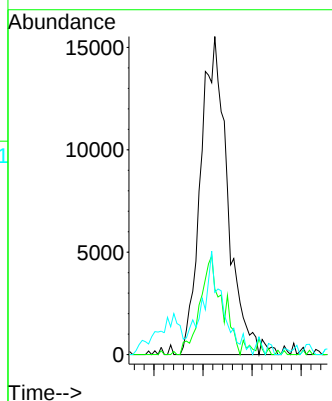
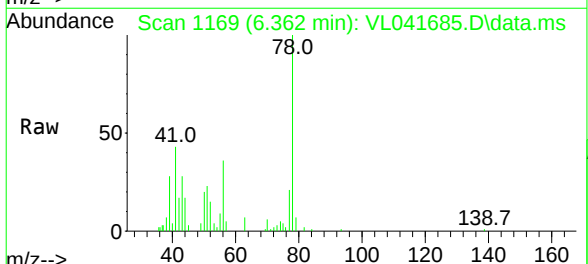
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

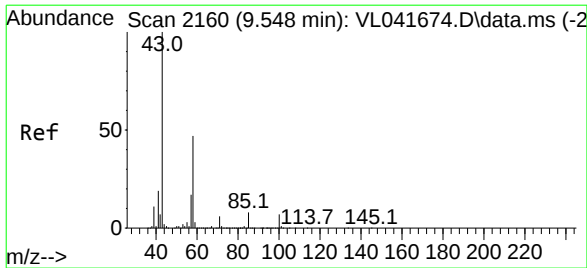


#36
Benzene
Concen: 0.146 ppbv m
RT: 6.362 min Scan# 1169
Delta R.T. -0.003 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

Tgt Ion: 78 Resp: 29709

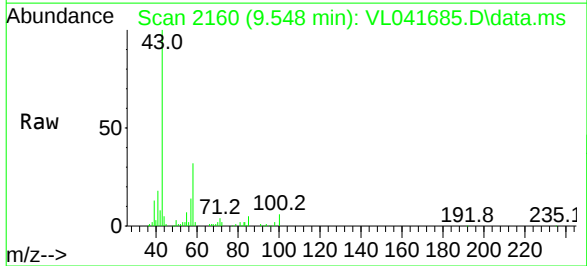
Ion	Ratio	Lower	Upper
78	100		
77	20.5	18.5	27.7
50	19.6	15.6	23.4





#51
2-Hexanone
Concen: 0.819 ppbv m
RT: 9.548 min Scan# 2160
Delta R.T. 0.000 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

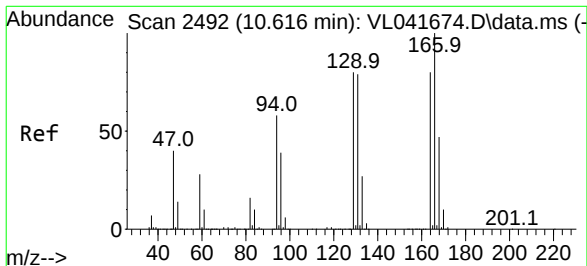
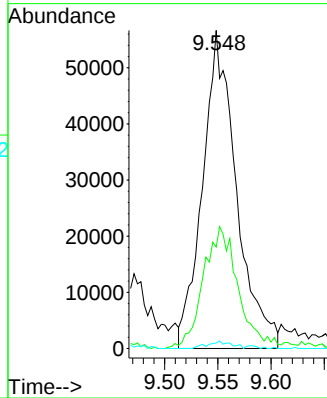
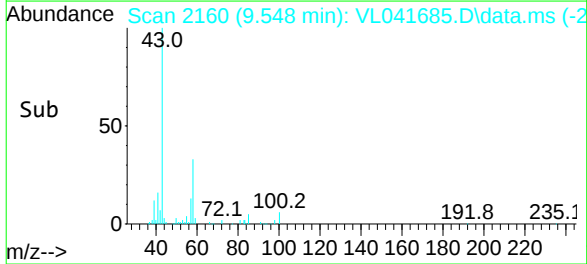
Instrument :
MSVOA_L
ClientSampleId :
SV1



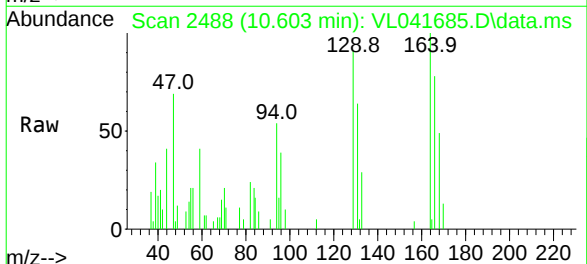
Tgt Ion: 43 Resp: 124925
Ion Ratio Lower Upper
43 100
58 0.0 37.0 55.6#
98 0.0 0.6 0.8#

Manual Integrations
APPROVED

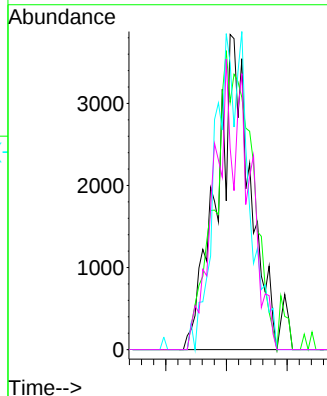
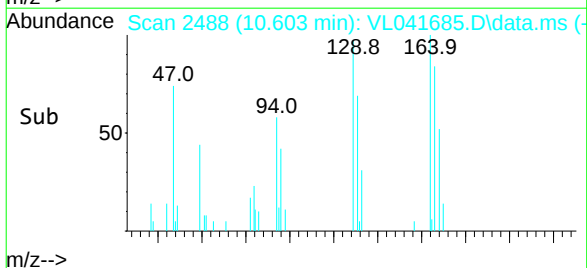
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

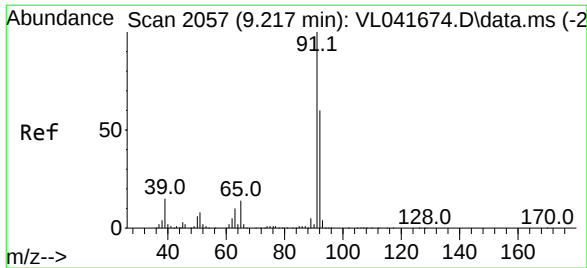


#52
Tetrachloroethene
Concen: 0.108 ppbv m
RT: 10.603 min Scan# 2488
Delta R.T. -0.013 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44



Tgt Ion:164 Resp: 7453
Ion Ratio Lower Upper
164 100
166 78.5 100.2 150.4#
129 90.9 79.7 119.5
131 64.0 79.0 118.4#





#53

Toluene

Concen: 0.749 ppbv

RT: 9.214 min Scan# 2057

Delta R.T. -0.003 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 159882

Ion Ratio Lower Upper

91 100

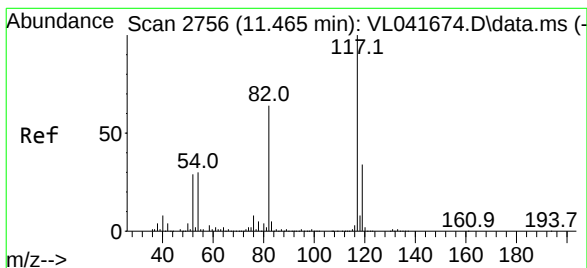
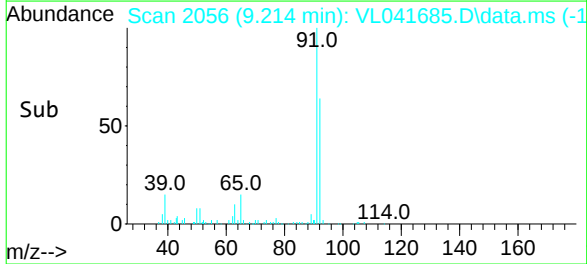
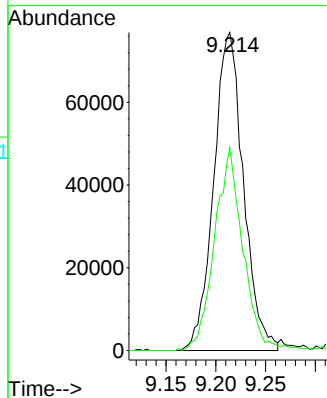
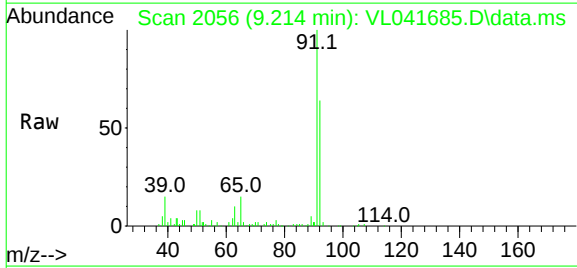
92 60.9 49.0 73.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 2753

Delta R.T. -0.010 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

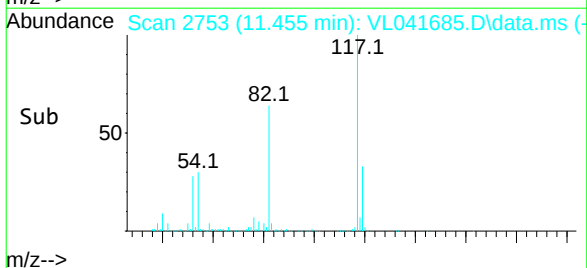
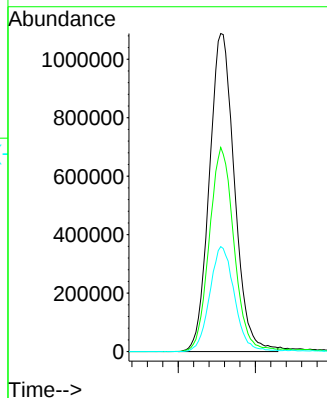
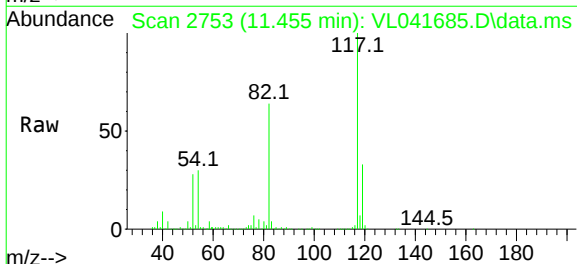
Tgt Ion:117 Resp: 2460095

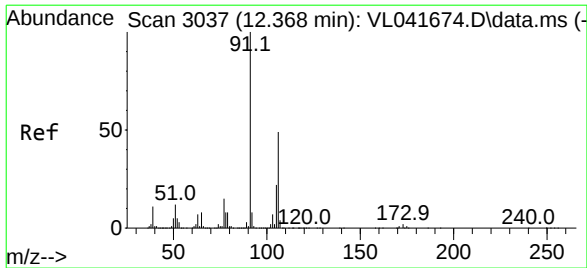
Ion Ratio Lower Upper

117 100

82 64.1 49.8 74.8

119 33.0 24.2 36.4





#59

m/p-Xylene

Concen: 0.222 ppbv m

RT: 12.343 min Scan# 30

Delta R.T. -0.026 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 53649

Ion Ratio Lower Upper

91 100

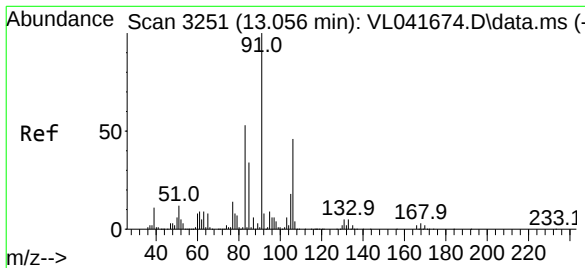
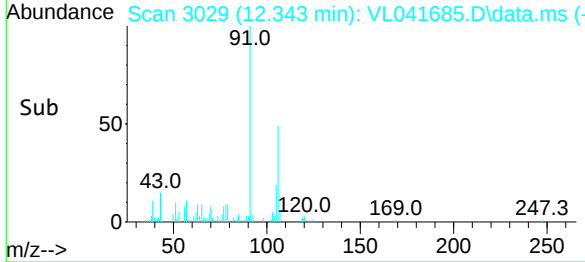
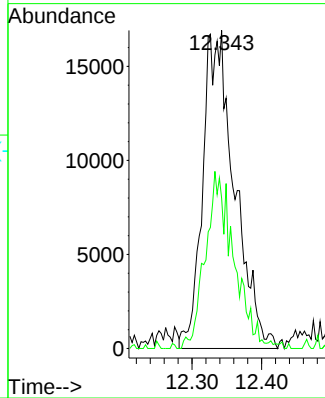
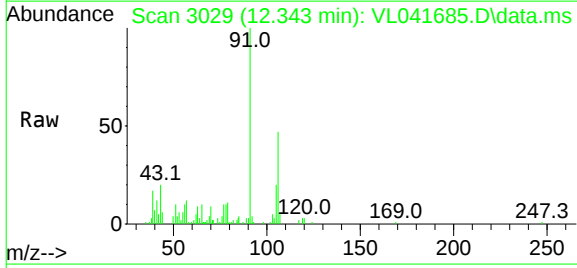
106 0.0 36.9 55.3#

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#60

o-Xylene

Concen: 0.186 ppbv m

RT: 13.047 min Scan# 3248

Delta R.T. -0.010 min

Lab File: VL041685.D

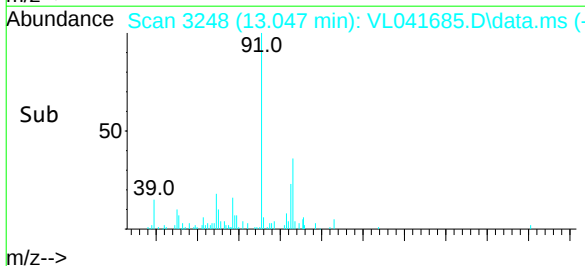
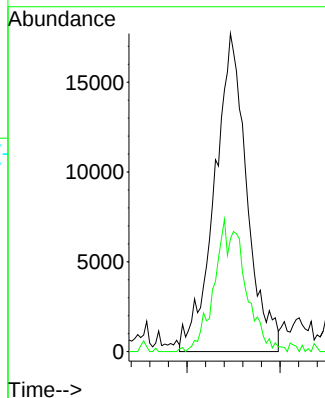
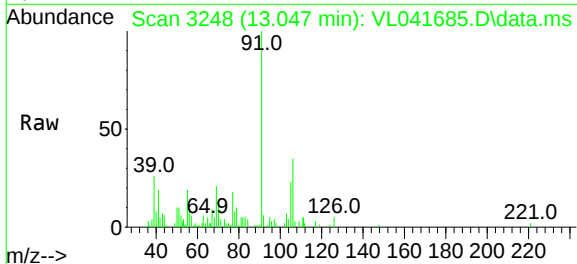
Acq: 7 Nov 2024 19:44

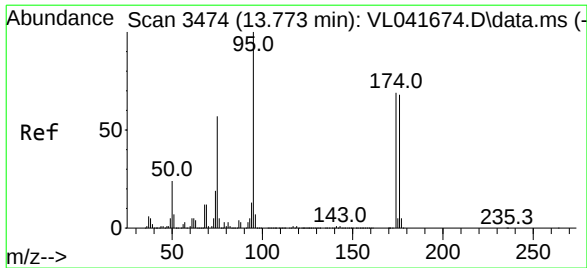
Tgt Ion: 91 Resp: 42794

Ion Ratio Lower Upper

91 100

106 40.9 23.2 69.6





#68

1-Bromo-4-Fluorobenzene

Concen: 10.028 ppbv

RT: 13.767 min Scan# 3474

Delta R.T. -0.006 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 95 Resp: 1817731

Ion Ratio Lower Upper

95 100

174 70.1 55.6 83.4

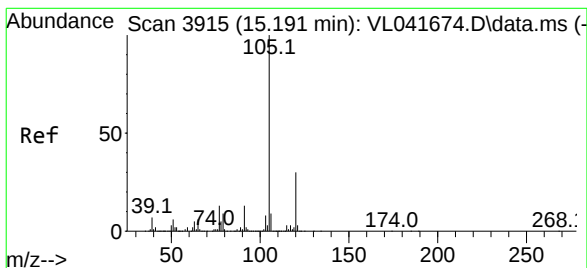
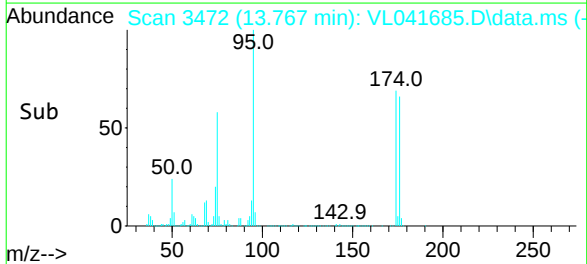
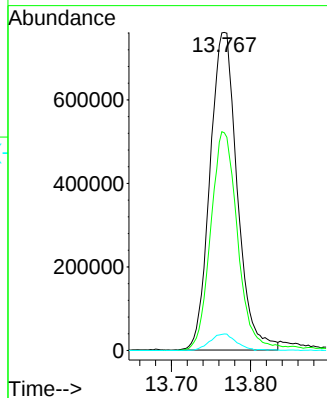
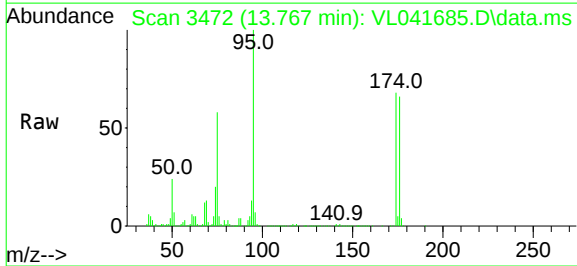
175 5.2 4.2 6.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024

Supervised By :Semsettin Yesilyurt 11/09/2024



#72

4-Ethyltoluene

Concen: 0.171 ppbv m

RT: 15.175 min Scan# 3910

Delta R.T. -0.016 min

Lab File: VL041685.D

Acq: 7 Nov 2024 19:44

Tgt Ion:105 Resp: 45726

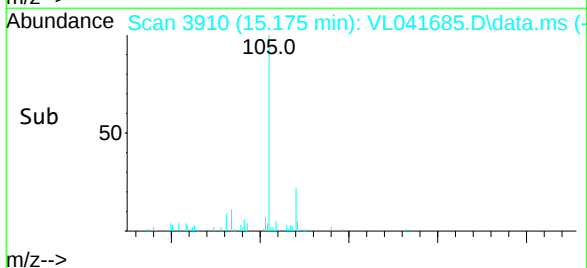
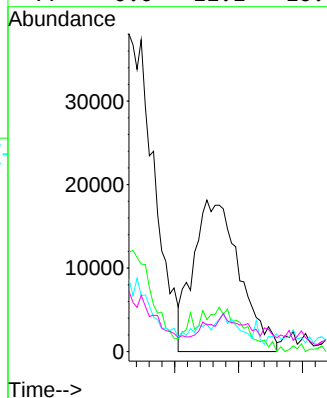
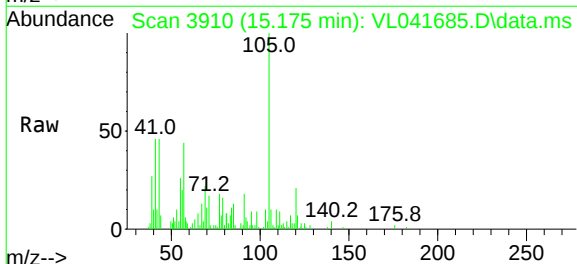
Ion Ratio Lower Upper

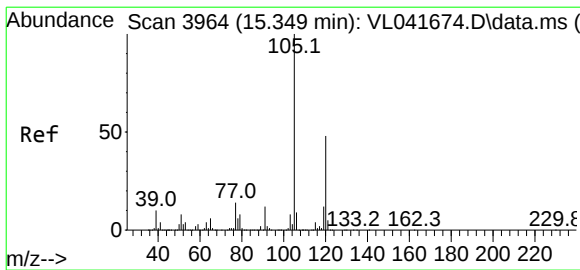
105 100

120 0.0 25.0 37.4#

91 0.0 10.6 15.8#

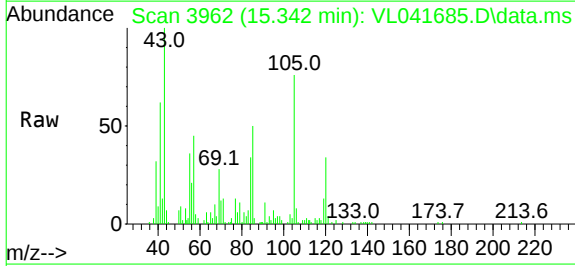
77 0.0 11.1 16.7#





#73
1,3,5-Trimethylbenzene
Concen: 0.188 ppbv m
RT: 15.342 min Scan# 3964
Delta R.T. -0.006 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44

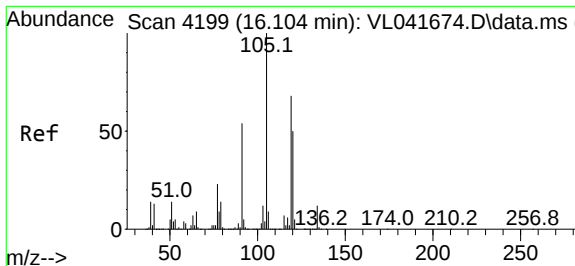
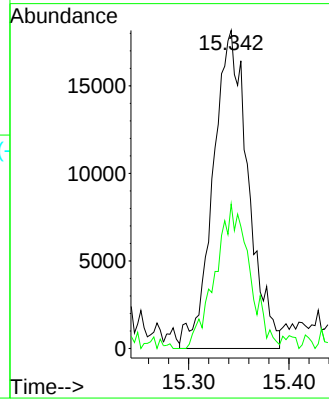
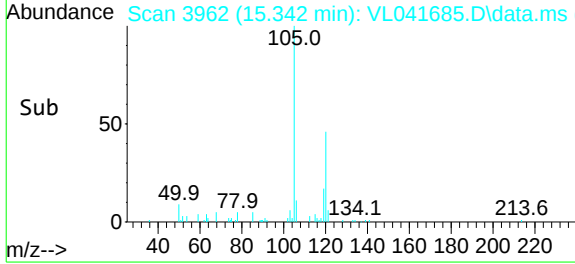
Instrument :
MSVOA_L
ClientSampleId :
SV1



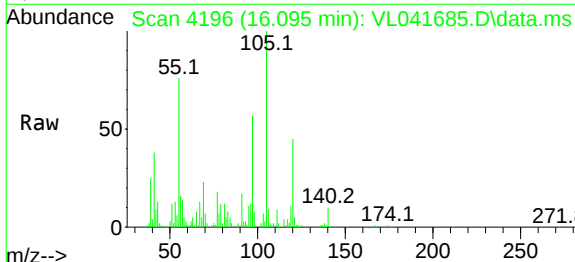
Tgt Ion:105 Resp: 44079
Ion Ratio Lower Upper
105 100
120 45.4 38.4 57.6

Manual Integrations
APPROVED

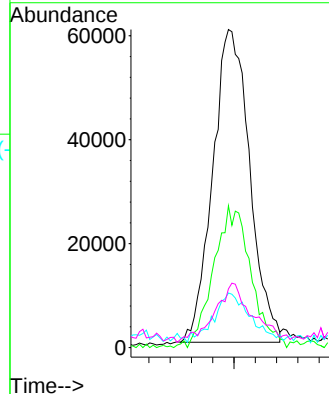
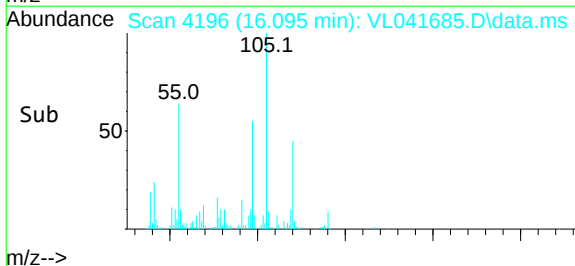
Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024



#74
1,2,4-Trimethylbenzene
Concen: 0.532 ppbv
RT: 16.095 min Scan# 4196
Delta R.T. -0.010 min
Lab File: VL041685.D
Acq: 7 Nov 2024 19:44



Tgt Ion:105 Resp: 145310
Ion Ratio Lower Upper
105 100
120 44.4 39.8 59.8
91 14.2 43.2 64.8#
77 16.2 18.5 27.7#





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: P4696 SAS No.: P4696 SDG No.: P4696

Instrument ID: MSVOA_L Calibration Date(s): 11/07/2024 11/07/2024

Heated Purge: (Y/N) N Calibration Time(s): 10:15 14:12

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

LAB FILE ID:		RRF010 = VL041674.D		RRF002 = VL041675.D		RRF001 = VL041676.D		
		RRF0.5 = VL041677.D		RRF0.1 = VL041678.D		RRF.03 = VL041679.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.626	0.680	0.660	0.627	0.490	0.643	0.621	9.9
Heptane	1.311	1.364	1.257	1.093			1.272	8.5
1,1-Dichloroethene	0.476	0.521	0.491	0.533			0.502	4.8
Cyclohexane	0.825	0.852	0.744	0.901			0.833	6.9
cis-1,2-Dichloroethene	0.936	0.959	0.972	0.873			0.942	4.3
1,1,1-Trichloroethane	1.488	1.619	1.574	1.468	1.289	1.373	1.474	7.7
2,2,4-Trimethylpentane	1.251	1.391	1.306	1.086			1.255	8.9
Benzene	0.738	0.803	0.751	0.663			0.741	6.8
1,2-Dichloroethane	0.408	0.435	0.433	0.396			0.418	3.9
Trichloroethene	0.303	0.320	0.289	0.264	0.232	0.273	0.285	10.8
Toluene	0.855	0.842	0.761	0.560			0.779	16.7
Tetrachloroethene	0.276	0.285	0.279	0.248	0.192	0.202	0.252	15.8
Ethyl Benzene	1.141	1.232	1.092	0.868			1.096	12.5
m/p-Xylene	0.975	1.112	1.019	0.832			0.982	10.3
o-Xylene	0.947	1.068	0.958	0.771			0.936	11.3
1,3,5-Trimethylbenzene	0.967	1.096	0.946	0.794			0.955	11.3
1,2,4-Trimethylbenzene	1.071	1.262	1.174	0.980			1.109	9.9
Naphthalene	0.832	0.854	0.738	0.527	0.269		0.685	35.3
1-Bromo-4-Fluorobenzene	0.716	0.722	0.745	0.763	0.750	0.741	0.737	2.4
Hexane	0.966	1.025	1.031	0.881			0.979	6.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL110724AIR.M

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

Last Update : Fri Nov 08 01:01:00 2024

Response Via : Initial Calibration

Calibration Files

0.03=VL041679.D 0.1 =VL041678.D 0.5 =VL041677.D 1 =VL041676.D 2 =VL041675.D 10 =VL041674.D 15 =VL041680.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.665	1.533	2.128	1.887	1.824	1.807	12.52
3) Chlorodifluoro...			1.407	1.386	1.360	1.190	1.172	1.303	8.66
4) Chloromethane			0.714	0.732	0.721	0.649	0.635	0.690	6.46
5) T Vinyl Chloride	0.643	0.490	0.627	0.660	0.680	0.626	0.621	0.621	9.91
6) T Bromomethane			0.337	0.328	0.347	0.317	0.318	0.329	3.87
7) Chloroethane			0.227	0.232	0.233	0.223	0.219	0.227	2.65
8) T Dichlorotetra...			1.783	1.677	1.685	1.476	1.446	1.613	9.02
9) T Propene			0.566	0.610	0.603	0.530	0.530	0.568	6.76
10) T Heptane			1.093	1.257	1.364	1.311	1.336	1.272	8.48
11) T Trichlorofluor...			1.609	1.644	1.673	1.480	1.465	1.574	6.09
12) T 1,1,2-Trichlor...			1.165	1.195	1.214	1.074	1.073	1.144	5.83
13) Ethanol			0.036	0.033	0.046	0.029	0.030	0.035#	19.45
14) T Bromoethene			0.486	0.465	0.476	0.431	0.442	0.460	5.06
15) T Acetone			1.201	1.403	1.348	1.098	1.103	1.231	11.36
16) T 1,3-Butadiene			0.585	0.572	0.689	0.627	0.632	0.621	7.40
17) tert-Butyl alc...			1.059	1.294	1.036	1.038	0.973	1.080	11.46
18) T 1,1-Dichloroet...			0.533	0.491	0.521	0.476	0.488	0.502	4.79
19) T Isopropyl Alcohol			0.561	0.696	0.600	0.552	0.532	0.588	11.03
20) T Methylene Chlo...			0.514	0.501	0.447	0.400	0.402	0.453	11.86
21) T Allyl Chloride			0.688	0.807	0.778	0.759	0.770	0.761	5.78
22) T trans-1,2-Dich...			0.475	0.515	0.529	0.484	0.493	0.499	4.51
23) T Vinyl Acetate			0.492	0.558	0.606	0.514	0.542	0.543	8.07
24) T 1,1-Dichloroet...			1.074	1.116	1.287	1.045	1.047	1.114	9.06
25) T Ethyl Acetate			2.443	2.674	2.681	2.463	2.477	2.548	4.69
26) T Hexane			0.881	1.031	1.025	0.966	0.991	0.979	6.19
27) T Carbon Disulfide			0.915	1.056	1.141	1.174	1.212	1.100	10.74
28) T Methyl tert-Bu...			0.591	0.669	0.739	0.573	0.578	0.630	11.45
29) T Chloroform			1.712	1.670	1.646	1.520	1.530	1.616	5.34
30) T Cyclohexane			0.901	0.744	0.852	0.825	0.846	0.833	6.87
31) T cis-1,2-Dichlo...			0.873	0.972	0.959	0.936	0.968	0.942	4.32
32) T 1,1,1-Trichlor...	1.373	1.289	1.468	1.574	1.619	1.488	1.507	1.474	7.66

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.488	0.500	0.524	0.478	0.499	0.498	3.43
35) T Carbon Tetrach...	0.420	0.425	0.553	0.563	0.597	0.564	0.572	0.528	13.81
36) T Benzene			0.663	0.751	0.803	0.738	0.750	0.741	6.83
37) T 1,2-Dichloroet...			0.396	0.433	0.435	0.408	0.417	0.418	3.95
38) T Trichloroethene	0.273	0.232	0.264	0.289	0.320	0.303	0.313	0.285	10.81
39) T 1,2-Dichloropr...			0.278	0.299	0.308	0.284	0.294	0.293	4.03

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL110724AIR.M										
40) T	1,4-Dioxane			0.072	0.105	0.123	0.111	0.114	0.105	18.41
41) T	Tetrahydrofuran			0.234	0.281	0.309	0.295	0.304	0.284	10.65
42) T	Bromodichlorom...			0.533	0.566	0.615	0.590	0.601	0.581	5.52
43) T	Methyl Methacr...			0.196	0.237	0.278	0.288	0.302	0.260	16.62
44) T	2,2,4-Trimethy...			1.086	1.306	1.391	1.251	1.241	1.255	8.91
45) T	t-1,3-Dichloro...			0.164	0.210	0.224	0.282	0.308	0.238	24.24
46) T	cis-1,3-Dichlo...			0.256	0.304	0.350	0.386	0.411	0.341	18.26
47) T	1,1,2-Trichlor...			0.323	0.315	0.325	0.308	0.313	0.317	2.30
48) T	Dibromochlorom...			0.396	0.458	0.511	0.515	0.528	0.482	11.34
49) T	Bromoform			0.317	0.383	0.427	0.459	0.474	0.412	15.45
50) T	4-Methyl-2-Pen...			0.611	0.753	0.841	0.806	0.811	0.764	11.97
51) T	2-Hexanone			0.411	0.496	0.601	0.627	0.649	0.557	18.01
52) T	Tetrachloroethene	0.202	0.192	0.248	0.279	0.285	0.276	0.285	0.252	15.83
53) T	Toluene			0.560	0.761	0.842	0.855	0.878	0.779	16.73
54) T	1,2-Dibromoethane	0.237		0.357	0.366	0.417	0.415	0.429	0.370	19.30
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.426	0.434	0.443	0.381	0.377	0.412	7.56
57) T	Chlorobenzene			0.783	0.780	0.793	0.673	0.669	0.740	8.54
58) T	Ethyl Benzene			0.868	1.092	1.232	1.141	1.148	1.096	12.52
59) T	m/p-Xylene			0.832	1.019	1.112	0.975	0.971	0.982	10.29
60) T	o-Xylene			0.771	0.958	1.068	0.947	0.937	0.936	11.35
61) T	Styrene			0.250	0.336	0.416	0.456	0.475	0.386	24.14
62) T	Isopropylbenzene			1.293	1.527	1.633	1.397	1.380	1.446	9.27
63) T	1,1,2,2-Tetrac...	0.731	0.568	0.693	0.740	0.773	0.660	0.656	0.689	9.95
64) T	n-propylbenzene			0.325	0.377	0.430	0.378	0.382	0.378	9.76
65) T	tert-Butylbenzene			1.123	1.382	1.503	1.251	1.238	1.299	11.25
66) T	Benzyl Chloride			0.083	0.088	0.098	0.108	0.123	0.100	15.94
67) T	sec-Butylbenzene			1.586	1.944	2.139	1.761	1.728	1.831	11.68
68) S	1-Bromo-4-Fluo...	0.741	0.750	0.763	0.745	0.722	0.716	0.721	0.737	2.40
69) T	p-Isopropyltol...			1.165	1.568	1.739	1.479	1.453	1.481	14.10
70) T	n-Butylbenzene			1.233	1.579	1.758	1.510	1.495	1.515	12.49
71) T	2-Chlorotoluene			0.848	1.082	1.182	1.055	1.059	1.045	11.64
72) T	4-Ethyltoluene			0.864	1.068	1.233	1.131	1.146	1.088	12.74
73) T	1,3,5-Trimethy...			0.794	0.946	1.096	0.967	0.973	0.955	11.27
74) T	1,2,4-Trimethy...			0.980	1.174	1.262	1.071	1.060	1.109	9.88
75) T	1,3-Dichlorobe...			0.643	0.711	0.750	0.659	0.672	0.687	6.30
76) T	1,4-Dichlorobe...			0.644	0.662	0.711	0.645	0.653	0.663	4.22
77) T	1,2-Dichlorobe...			0.643	0.722	0.739	0.643	0.657	0.681	6.76
78) T	Hexachloro-1,3...			0.620	0.620	0.583	0.428	0.441	0.538	17.89
79) T	Naphthalene	0.269		0.527	0.738	0.854	0.832	0.889	0.685	35.32
80) T	Naphthalene,2-...			0.121	0.128	0.161	0.140	0.197	0.149	20.61
81) T	1,2,4-Trichlor...			0.364	0.452	0.456	0.425	0.456	0.431	9.18

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041674.D
 Acq On : 7 Nov 2024 10:15
 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 :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:09:03 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.188	49	1170802	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.651	114	3260349	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	3326206m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.773 95 2380541 9.677 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.800%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.726	85	2208753	10.438	ppbv 100
3) Chlorodifluoromethane	2.671	51	1393427	9.135	ppbv 100
4) Chloromethane	2.809	50	760160	9.408	ppbv 100
5) Vinyl Chloride	2.915	62	732442	10.005	ppbv 100
6) Bromomethane	3.115	94	371242	9.628	ppbv 100
7) Chloroethane	3.192	64	260602	9.824	ppbv 100
8) Dichlorotetrafluoroethane	2.851	85	1728631	9.151	ppbv 100
9) Propene	2.690	41	619994	9.327	ppbv 100
10) Heptane	7.577	43	1534950	10.305	ppbv 100
11) Trichlorofluoromethane	3.555	101	1732857	9.401	ppbv 100
12) 1,1,2-Trichlorotrifluo...	4.060	101	1257722	9.388	ppbv 100
13) Ethanol	3.246	45	33738m	8.160	ppbv
14) Bromoethene	3.362	108	504428	9.366	ppbv 100
15) Acetone	3.462	43	1285781	8.923	ppbv 100
16) 1,3-Butadiene	2.980	39	734062	10.160	ppbv 100
17) tert-Butyl alcohol	3.873	59	1215299	9.611	ppbv 100
18) 1,1-Dichloroethene	3.873	96	557278	9.484	ppbv 100
19) Isopropyl Alcohol	3.571	45	646252	9.266	ppbv 100
20) Methylene Chloride	3.928	84	468549	8.837	ppbv 100
21) Allyl Chloride	3.992	41	888517	9.979	ppbv 100
22) trans-1,2-Dichloroethene	4.442	96	566347	9.660	ppbv 100
23) Vinyl Acetate	4.623	43	602236	8.886	ppbv 100
24) 1,1-Dichloroethane	4.558	63	1223224	9.380	ppbv 100
25) Ethyl Acetate	5.201	43	2883606	9.668	ppbv 100
26) Hexane	5.208	57	1130877	9.869	ppbv 100
27) Carbon Disulfide	4.118	76	1374259	10.675	ppbv 100
28) Methyl tert-Butyl Ether	4.581	73	670928	9.092	ppbv 100
29) Chloroform	5.269	83	1779347	9.407	ppbv 100
30) Cyclohexane	6.597	84	965390	10.487	ppbv 100
31) cis-1,2-Dichloroethene	5.076	61	1095423	9.937	ppbv 100
32) 1,1,1-Trichloroethane	5.999	97	1742198	10.047	ppbv 100
34) 2-Butanone	4.780	43	1559421	9.606	ppbv 100
35) Carbon Tetrachloride	6.491	117	1838964	10.670	ppbv 100
36) Benzene	6.365	78	2404772	9.955	ppbv 100
37) 1,2-Dichloroethane	5.803	62	1331275	9.768	ppbv 100
38) Trichloroethene	7.288	130	986911	10.594	ppbv 100
39) 1,2-Dichloropropane	7.073	63	927055	9.711	ppbv 100
40) 1,4-Dioxane	7.282	88	361524	10.691	ppbv 100
41) Tetrahydrofuran	5.552	42	961227	10.379	ppbv 100
42) Bromodichloromethane	7.246	83	1922752	10.153	ppbv 100
43) Methyl Methacrylate	7.471	69	939057	11.071	ppbv 100
44) 2,2,4-Trimethylpentane	7.323	57	4079001	9.968	ppbv 100
45) t-1,3-Dichloropropene	8.706	75	920537	12.141	ppbv 100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041674.D
 Acq On : 7 Nov 2024 10:15
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Nov 08 00:09:03 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.140	75	1257121	11.408	ppbv	100
47) 1,1,2-Trichloroethane	8.896	97	1003150	9.746	ppbv	100
48) Dibromochloromethane	9.709	129	1679053	10.690	ppbv	100
49) Bromoform	12.404	173	1497222	11.174	ppbv	100
50) 4-Methyl-2-Pentanone	8.179	43	2628657	10.544	ppbv	100
51) 2-Hexanone	9.548	43	2043690	11.281	ppbv	100
52) Tetrachloroethene	10.616	164	899580	10.893	ppbv	100
53) Toluene	9.217	91	2787590	10.973	ppbv	100
54) 1,2-Dibromoethane	10.008	107	1353490	11.262	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.507	131	1266326	9.142	ppbv	100
57) Chlorobenzene	11.526	112	2237328	9.024	ppbv	100
58) Ethyl Benzene	12.085	91	3795372	10.301	ppbv	100
59) m/p-Xylene	12.368	91	6483858m	19.671	ppbv	
60) o-Xylene	13.056	91	3148609	10.005	ppbv	100
61) Styrene	12.896	104	1515741	11.670	ppbv	100
62) Isopropylbenzene	14.027	105	4647017	9.566	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.043	83	2194609	9.578	ppbv	100
64) n-propylbenzene	14.912	120	1256955	9.895	ppbv	100
65) tert-Butylbenzene	16.088	119	4162243	9.533	ppbv	100
66) Benzyl Chloride	16.326	91	359794	11.442	ppbv	100
67) sec-Butylbenzene	16.635	105	5857608	9.519	ppbv	100
69) p-Isopropyltoluene	16.992	119	4920309	9.887	ppbv	100
70) n-Butylbenzene	17.882	91	5021145	9.843	ppbv	100
71) 2-Chlorotoluene	14.796	91	3508288	9.986	ppbv	100
72) 4-Ethyltoluene	15.191	105	3763123	10.297	ppbv	100
73) 1,3,5-Trimethylbenzene	15.349	105	3217635	10.042	ppbv	100
74) 1,2,4-Trimethylbenzene	16.104	105	3563067	9.559	ppbv	100
75) 1,3-Dichlorobenzene	16.326	146	2192903	9.524	ppbv	100
76) 1,4-Dichlorobenzene	16.471	146	2144446	9.479	ppbv	100
77) 1,2-Dichlorobenzene	17.140	146	2138612	9.353	ppbv	100
78) Hexachloro-1,3-Butadiene	22.631	225	1422723m	7.865	ppbv	
79) Naphthalene	21.384	128	2767333	12.072	ppbv	100
80) Naphthalene,2-methyl-	24.374	142	466005	10.957	ppbv	100
81) 1,2,4-Trichlorobenzene	21.136	180	1415249	9.925	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041675.D
 Acq On : 7 Nov 2024 10:55
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Nov 08 00:09:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Nov 08 00:07:44 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

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

Internal Standards						
1) Bromochloromethane	5.185	49	1208732	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	3351063	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	3155486	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	2278471	9.764	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.600%

Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.726	85	514444	2.355	ppbv	97
3) Chlorodifluoromethane	2.671	51	328832	2.088	ppbv	99
4) Chloromethane	2.806	50	174215	2.088	ppbv	98
5) Vinyl Chloride	2.915	62	164345	2.174	ppbv	95
6) Bromomethane	3.115	94	83930	2.108	ppbv	95
7) Chloroethane	3.192	64	56344	2.057	ppbv	95
8) Dichlorotetrafluoroethane	2.851	85	407437	2.089	ppbv	100
9) Propene	2.690	41	145858	2.125	ppbv	96
10) Heptane	7.574	43	329781	2.145	ppbv	100
11) Trichlorofluoromethane	3.558	101	404483	2.126	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.060	101	293463	2.122	ppbv	100
13) Ethanol	3.253	45	11047m	2.588	ppbv	
14) Bromoethene	3.362	108	115140	2.071	ppbv	97
15) Acetone	3.468	43	325763	2.190	ppbv	98
16) 1,3-Butadiene	2.980	39	166496	2.232	ppbv	100
17) tert-Butyl alcohol	3.880	59	250452	1.919	ppbv	100
18) 1,1-Dichloroethene	3.877	96	125850	2.075	ppbv	97
19) Isopropyl Alcohol	3.581	45	145112	2.015	ppbv	# 98
20) Methylene Chloride	3.928	84	107956	1.972	ppbv	95
21) Allyl Chloride	3.992	41	188103	2.046	ppbv	93
22) trans-1,2-Dichloroethene	4.439	96	127951	2.114	ppbv	97
23) Vinyl Acetate	4.623	43	146592	2.095	ppbv	99
24) 1,1-Dichloroethane	4.555	63	311096	2.311	ppbv	99
25) Ethyl Acetate	5.201	43	648134	2.105	ppbv	99
26) Hexane	5.205	57	247802	2.095	ppbv	93
27) Carbon Disulfide	4.121	76	275871	2.076	ppbv	# 92
28) Methyl tert-Butyl Ether	4.587	73	178647	2.345	ppbv	100
29) Chloroform	5.269	83	397794	2.037	ppbv	98
30) Cyclohexane	6.594	84	205987	2.167	ppbv	95
31) cis-1,2-Dichloroethene	5.073	61	231792	2.037	ppbv	95
32) 1,1,1-Trichloroethane	5.996	97	391289	2.186	ppbv	99
34) 2-Butanone	4.783	43	351257	2.105	ppbv	97
35) Carbon Tetrachloride	6.491	117	399871	2.257	ppbv	99
36) Benzene	6.368	78	538471	2.169	ppbv	96
37) 1,2-Dichloroethane	5.803	62	291330	2.080	ppbv	100
38) Trichloroethene	7.285	130	214170	2.237	ppbv	96
39) 1,2-Dichloropropane	7.069	63	206245	2.102	ppbv	97
40) 1,4-Dioxane	7.291	88	82194m	2.365	ppbv	
41) Tetrahydrofuran	5.561	42	206889	2.173	ppbv	99
42) Bromodichloromethane	7.243	83	411846	2.116	ppbv	100
43) Methyl Methacrylate	7.471	69	186557	2.140	ppbv	95
44) 2,2,4-Trimethylpentane	7.323	57	932386	2.217	ppbv	99
45) t-1,3-Dichloropropene	8.709	75	150360	1.929	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041675.D
 Acq On : 7 Nov 2024 10:55
 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 :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:09:49 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.137	75	234294	2.069	ppbv	98
47) 1,1,2-Trichloroethane	8.899	97	218012m	2.061	ppbv	
48) Dibromochloromethane	9.703	129	342372	2.121	ppbv	99
49) Bromoform	12.404	173	286412	2.080	ppbv	99
50) 4-Methyl-2-Pentanone	8.185	43	563317	2.198	ppbv	99
51) 2-Hexanone	9.558	43	402751	2.163	ppbv	97
52) Tetrachloroethene	10.616	164	191108m	2.252	ppbv	
53) Toluene	9.220	91	564332	2.161	ppbv	100
54) 1,2-Dibromoethane	10.005	107	279460	2.262	ppbv	95
56) 1,1,1,2-Tetrachloroethane	11.507	131	279872	2.130	ppbv #	1
57) Chlorobenzene	11.519	112	500524	2.128	ppbv	98
58) Ethyl Benzene	12.085	91	777614	2.225	ppbv	96
59) m/p-Xylene	12.368	91	1403331m	4.488	ppbv	
60) o-Xylene	13.053	91	674003	2.258	ppbv	98
61) Styrene	12.892	104	262837	2.133	ppbv	98
62) Isopropylbenzene	14.024	105	1030511	2.236	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.043	83	488021	2.245	ppbv	99
64) n-propylbenzene	14.915	120	271271	2.251	ppbv	94
65) tert-Butylbenzene	16.085	119	948395	2.290	ppbv	99
66) Benzyl Chloride	16.326	91	61799m	2.072	ppbv	
67) sec-Butylbenzene	16.632	105	1349679	2.312	ppbv	99
69) p-Isopropyltoluene	16.992	119	1097205	2.324	ppbv	99
70) n-Butylbenzene	17.886	91	1109618	2.293	ppbv	99
71) 2-Chlorotoluene	14.796	91	745884	2.238	ppbv	100
72) 4-Ethyltoluene	15.188	105	777952	2.244	ppbv	100
73) 1,3,5-Trimethylbenzene	15.346	105	691387	2.274	ppbv	93
74) 1,2,4-Trimethylbenzene	16.101	105	796450	2.252	ppbv	96
75) 1,3-Dichlorobenzene	16.329	146	473241	2.167	ppbv	99
76) 1,4-Dichlorobenzene	16.471	146	448788	2.091	ppbv	97
77) 1,2-Dichlorobenzene	17.140	146	466190	2.149	ppbv	98
78) Hexachloro-1,3-Butadiene	22.628	225	367865	2.144	ppbv	99
79) Naphthalene	21.387	128	538842	2.478	ppbv	97
80) Naphthalene,2-methyl-	24.381	142	101409	2.513	ppbv	96
81) 1,2,4-Trichlorobenzene	21.143	180	287687	2.127	ppbv	99

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

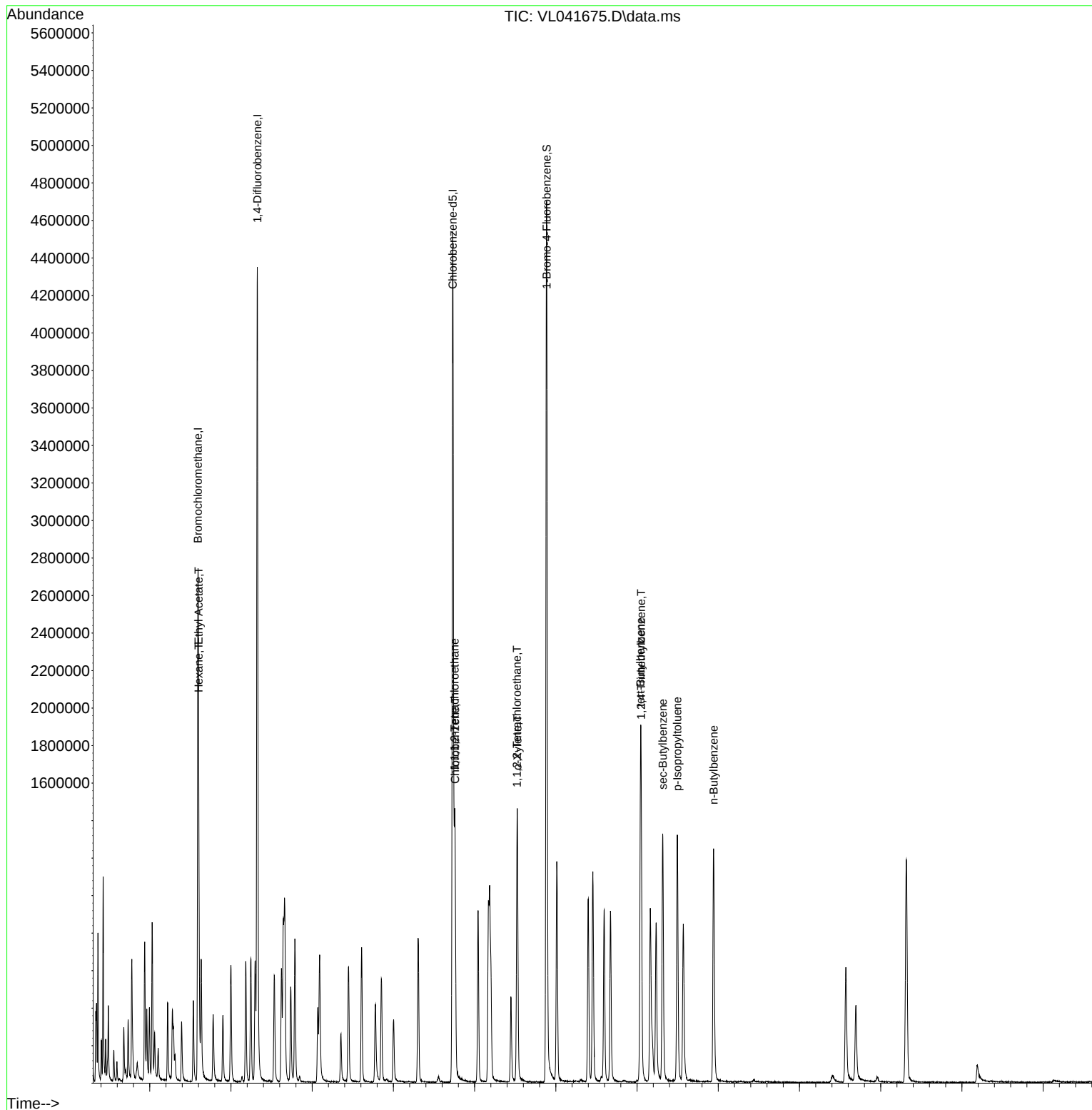
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041675.D
Acq On : 7 Nov 2024 10:55
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:09:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Nov 08 00:07:44 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041676.D
 Acq On : 7 Nov 2024 11:34
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Nov 08 00:10:33 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

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

Internal Standards						
1) Bromochloromethane	5.185	49	1184622	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	3332226	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	3067671	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.773 95 2285234 10.073 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.726	85	181618	0.848	ppbv	98
3) Chlorodifluoromethane	2.671	51	164131	1.063	ppbv	100
4) Chloromethane	2.812	50	86683	1.060	ppbv	100
5) Vinyl Chloride	2.915	62	78147	1.055	ppbv	100
6) Bromomethane	3.118	94	38811	0.995	ppbv	89
7) Chloroethane	3.195	64	27451	1.023	ppbv	94
8) Dichlorotetrafluoroethane	2.854	85	198669	1.039	ppbv	99
9) Propene	2.690	41	72231	1.074	ppbv	95
10) Heptane	7.574	43	148906	0.988	ppbv	96
11) Trichlorofluoromethane	3.562	101	194775	1.044	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.063	101	141527	1.044	ppbv	98
13) Ethanol	3.256	45	3961	0.947	ppbv #	48
14) Bromoethene	3.359	108	55094	1.011	ppbv #	92
15) Acetone	3.475	43	166255	1.140	ppbv	99
16) 1,3-Butadiene	2.980	39	67777m	0.927	ppbv	
17) tert-Butyl alcohol	3.883	59	153265	1.198	ppbv	99
18) 1,1-Dichloroethene	3.873	96	58180	0.979	ppbv	97
19) Isopropyl Alcohol	3.584	45	82398	1.168	ppbv #	91
20) Methylene Chloride	3.928	84	59394	1.107	ppbv	96
21) Allyl Chloride	3.992	41	95568	1.061	ppbv	98
22) trans-1,2-Dichloroethene	4.446	96	60981m	1.028	ppbv	
23) Vinyl Acetate	4.626	43	66087m	0.964	ppbv	
24) 1,1-Dichloroethane	4.555	63	132214	1.002	ppbv	99
25) Ethyl Acetate	5.205	43	316814	1.050	ppbv	98
26) Hexane	5.208	57	122113	1.053	ppbv	94
27) Carbon Disulfide	4.121	76	125113	0.961	ppbv	97
28) Methyl tert-Butyl Ether	4.587	73	79309	1.062	ppbv	98
29) Chloroform	5.269	83	197891	1.034	ppbv	100
30) Cyclohexane	6.597	84	88127	0.946	ppbv	89
31) cis-1,2-Dichloroethene	5.073	61	115115	1.032	ppbv	94
32) 1,1,1-Trichloroethane	5.996	97	186425	1.063	ppbv	100
34) 2-Butanone	4.790	43	166525	1.004	ppbv	99
35) Carbon Tetrachloride	6.491	117	187475	1.064	ppbv	96
36) Benzene	6.369	78	250318	1.014	ppbv	98
37) 1,2-Dichloroethane	5.803	62	144449	1.037	ppbv	100
38) Trichloroethene	7.288	130	96191	1.010	ppbv	93
39) 1,2-Dichloropropane	7.069	63	99780	1.023	ppbv	91
40) 1,4-Dioxane	7.311	88	35039m	1.014	ppbv	
41) Tetrahydrofuran	5.571	42	93643	0.989	ppbv	99
42) Bromodichloromethane	7.246	83	188568	0.974	ppbv	100
43) Methyl Methacrylate	7.478	69	78902	0.910	ppbv	90
44) 2,2,4-Trimethylpentane	7.327	57	435343	1.041	ppbv	98
45) t-1,3-Dichloropropene	8.709	75	70088m	0.904	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041676.D
 Acq On : 7 Nov 2024 11:34
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Quant Time: Nov 08 00:10:33 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Reviewed By : Mahesh Dadoda 11/09/2024
 Supervised By : Semsettin Yesilyurt 11/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.143	75	101425	0.901	ppbv	95
47) 1,1,2-Trichloroethane	8.896	97	104883	0.997	ppbv	92
48) Dibromochloromethane	9.709	129	152757	0.952	ppbv	99
49) Bromoform	12.400	173	127488m	0.931	ppbv	
50) 4-Methyl-2-Pentanone	8.188	43	250885	0.985	ppbv	99
51) 2-Hexanone	9.571	43	165158	0.892	ppbv #	100
52) Tetrachloroethene	10.610	164	92977	1.102	ppbv	93
53) Toluene	9.217	91	253501	0.976	ppbv	98
54) 1,2-Dibromoethane	10.008	107	122096	0.994	ppbv	97
56) 1,1,1,2-Tetrachloroethane	11.510	131	133283	1.043	ppbv #	1
57) Chlorobenzene	11.523	112	239417	1.047	ppbv	97
58) Ethyl Benzene	12.089	91	334939	0.986	ppbv	91
59) m/p-Xylene	12.368	91	625077m	2.056	ppbv	
60) o-Xylene	13.053	91	293793	1.012	ppbv	100
61) Styrene	12.892	104	102947	0.859	ppbv	96
62) Isopropylbenzene	14.031	105	468382	1.045	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.047	83	226867	1.074	ppbv	97
64) n-propylbenzene	14.915	120	115677	0.987	ppbv	82
65) tert-Butylbenzene	16.092	119	424019	1.053	ppbv	98
66) Benzyl Chloride	16.326	91	26944m	0.929	ppbv	
67) sec-Butylbenzene	16.638	105	596449	1.051	ppbv	99
69) p-Isopropyltoluene	16.998	119	480893	1.048	ppbv	99
70) n-Butylbenzene	17.889	91	484367	1.030	ppbv	97
71) 2-Chlorotoluene	14.799	91	331921	1.024	ppbv	99
72) 4-Ethyltoluene	15.191	105	327541	0.972	ppbv	98
73) 1,3,5-Trimethylbenzene	15.352	105	290287	0.982	ppbv	93
74) 1,2,4-Trimethylbenzene	16.111	105	360083	1.047	ppbv #	89
75) 1,3-Dichlorobenzene	16.326	146	218228	1.028	ppbv	99
76) 1,4-Dichlorobenzene	16.471	146	203100	0.973	ppbv	95
77) 1,2-Dichlorobenzene	17.143	146	221404	1.050	ppbv	98
78) Hexachloro-1,3-Butadiene	22.632	225	190183m	1.140	ppbv	
79) Naphthalene	21.394	128	226301m	1.070	ppbv	
80) Naphthalene,2-methyl-	24.374	142	39140m	0.998	ppbv	
81) 1,2,4-Trichlorobenzene	21.146	180	138641m	1.054	ppbv	

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

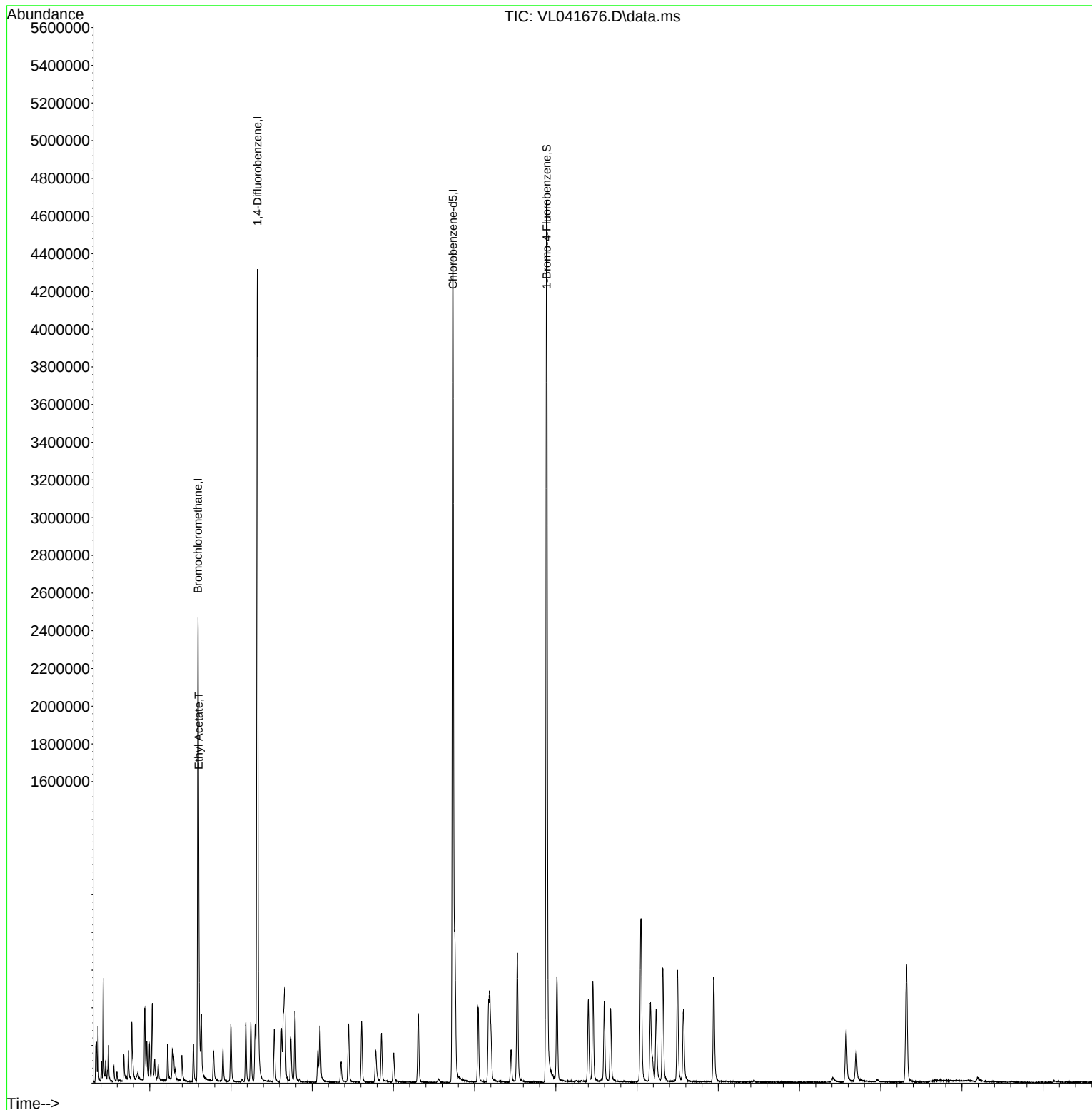
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041676.D
Acq On : 7 Nov 2024 11:34
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:10:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Nov 08 00:07:44 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041677.D
 Acq On : 7 Nov 2024 12:13
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Nov 08 00:11:14 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Nov 08 00:07:44 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

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

Internal Standards						
1) Bromochloromethane	5.189	49	1153970	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	3232256	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2900644	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.777	95	2213310	10.318	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.726	85	96069	0.461	ppbv	100
3) Chlorodifluoromethane	2.671	51	81180	0.540	ppbv	99
4) Chloromethane	2.809	50	41203	0.517	ppbv #	86
5) Vinyl Chloride	2.915	62	36174	0.501	ppbv	97
6) Bromomethane	3.118	94	19426	0.511	ppbv #	79
7) Chloroethane	3.192	64	13079	0.500	ppbv	90
8) Dichlorotetrafluoroethane	2.854	85	102861	0.552	ppbv	97
9) Propene	2.690	41	32642	0.498	ppbv	96
10) Heptane	7.578	43	63040	0.429	ppbv	99
11) Trichlorofluoromethane	3.558	101	92855	0.511	ppbv	89
12) 1,1,2-Trichlorotrifluo...	4.063	101	67243	0.509	ppbv	96
13) Ethanol	3.269	45	2080m	0.510	ppbv	
14) Bromoethene	3.362	108	28054	0.528	ppbv #	88
15) Acetone	3.481	43	69299	0.488	ppbv #	85
16) 1,3-Butadiene	2.983	39	33737	0.474	ppbv	88
17) tert-Butyl alcohol	3.890	59	61100	0.490	ppbv #	93
18) 1,1-Dichloroethene	3.877	96	30772	0.531	ppbv	97
19) Isopropyl Alcohol	3.597	45	32369m	0.471	ppbv	
20) Methylene Chloride	3.928	84	29673	0.568	ppbv	97
21) Allyl Chloride	3.993	41	39722	0.453	ppbv	86
22) trans-1,2-Dichloroethene	4.439	96	27393	0.474	ppbv	96
23) Vinyl Acetate	4.629	43	28383m	0.425	ppbv	
24) 1,1-Dichloroethane	4.562	63	61980	0.482	ppbv	99
25) Ethyl Acetate	5.211	43	140929	0.479	ppbv #	98
26) Hexane	5.211	57	50843	0.450	ppbv	81
27) Carbon Disulfide	4.121	76	52791	0.416	ppbv #	86
28) Methyl tert-Butyl Ether	4.594	73	34128	0.469	ppbv	96
29) Chloroform	5.266	83	98787	0.530	ppbv	93
30) Cyclohexane	6.600	84	51970m	0.573	ppbv	
31) cis-1,2-Dichloroethene	5.076	61	50385	0.464	ppbv	94
32) 1,1,1-Trichloroethane	5.999	97	84699	0.496	ppbv	96
34) 2-Butanone	4.796	43	78940	0.490	ppbv	99
35) Carbon Tetrachloride	6.488	117	89311m	0.523	ppbv	
36) Benzene	6.362	78	107078	0.447	ppbv	97
37) 1,2-Dichloroethane	5.803	62	64024	0.474	ppbv	97
38) Trichloroethene	7.291	130	42598	0.461	ppbv #	90
39) 1,2-Dichloropropane	7.070	63	44946	0.475	ppbv	93
40) 1,4-Dioxane	7.330	88	11696m	0.349	ppbv	
41) Tetrahydrofuran	5.574	42	37743m	0.411	ppbv	
42) Bromodichloromethane	7.246	83	86164	0.459	ppbv	97
43) Methyl Methacrylate	7.475	69	31683m	0.377	ppbv	
44) 2,2,4-Trimethylpentane	7.327	57	175510	0.433	ppbv	93
45) t-1,3-Dichloropropene	8.709	75	26475m	0.352	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041677.D
 Acq On : 7 Nov 2024 12:13
 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 :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:11:14 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.143	75	41408m	0.379	ppbv	
47) 1,1,2-Trichloroethane	8.902	97	52244m	0.512	ppbv	
48) Dibromochloromethane	9.709	129	64053	0.411	ppbv	99
49) Bromoform	12.401	173	51263m	0.386	ppbv	
50) 4-Methyl-2-Pentanone	8.198	43	98725m	0.399	ppbv	
51) 2-Hexanone	9.577	43	66460m	0.370	ppbv	
52) Tetrachloroethene	10.610	164	40017m	0.489	ppbv	
53) Toluene	9.221	91	90468	0.359	ppbv	99
54) 1,2-Dibromoethane	10.008	107	57696m	0.484	ppbv	
56) 1,1,1,2-Tetrachloroethane	11.510	131	61817	0.512	ppbv #	1
57) Chlorobenzene	11.520	112	113601m	0.525	ppbv	
58) Ethyl Benzene	12.089	91	125893m	0.392	ppbv	
59) m/p-Xylene	12.372	91	241360m	0.840	ppbv	
60) o-Xylene	13.060	91	111856	0.408	ppbv	99
61) Styrene	12.899	104	36189m	0.320	ppbv	
62) Isopropylbenzene	14.031	105	187478	0.443	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.050	83	100534	0.503	ppbv	96
64) n-propylbenzene	14.921	120	47206m	0.426	ppbv	
65) tert-Butylbenzene	16.092	119	162846	0.428	ppbv	95
66) Benzyl Chloride	16.330	91	12069m	0.440	ppbv	
67) sec-Butylbenzene	16.638	105	230007	0.429	ppbv	100
69) p-Isopropyltoluene	16.995	119	169014	0.389	ppbv	95
70) n-Butylbenzene	17.892	91	178790m	0.402	ppbv	
71) 2-Chlorotoluene	14.802	91	122982	0.401	ppbv	100
72) 4-Ethyltoluene	15.191	105	125281m	0.393	ppbv	
73) 1,3,5-Trimethylbenzene	15.355	105	115096m	0.412	ppbv	
74) 1,2,4-Trimethylbenzene	16.111	105	142178	0.437	ppbv #	87
75) 1,3-Dichlorobenzene	16.333	146	93240m	0.464	ppbv	
76) 1,4-Dichlorobenzene	16.478	146	93341m	0.473	ppbv	
77) 1,2-Dichlorobenzene	17.146	146	93228	0.468	ppbv	94
78) Hexachloro-1,3-Butadiene	22.638	225	89942m	0.570	ppbv	
79) Naphthalene	21.397	128	76368m	0.382	ppbv	
80) Naphthalene,2-methyl-	24.410	142	17526m	0.473	ppbv	
81) 1,2,4-Trichlorobenzene	21.149	180	52746m	0.424	ppbv	

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

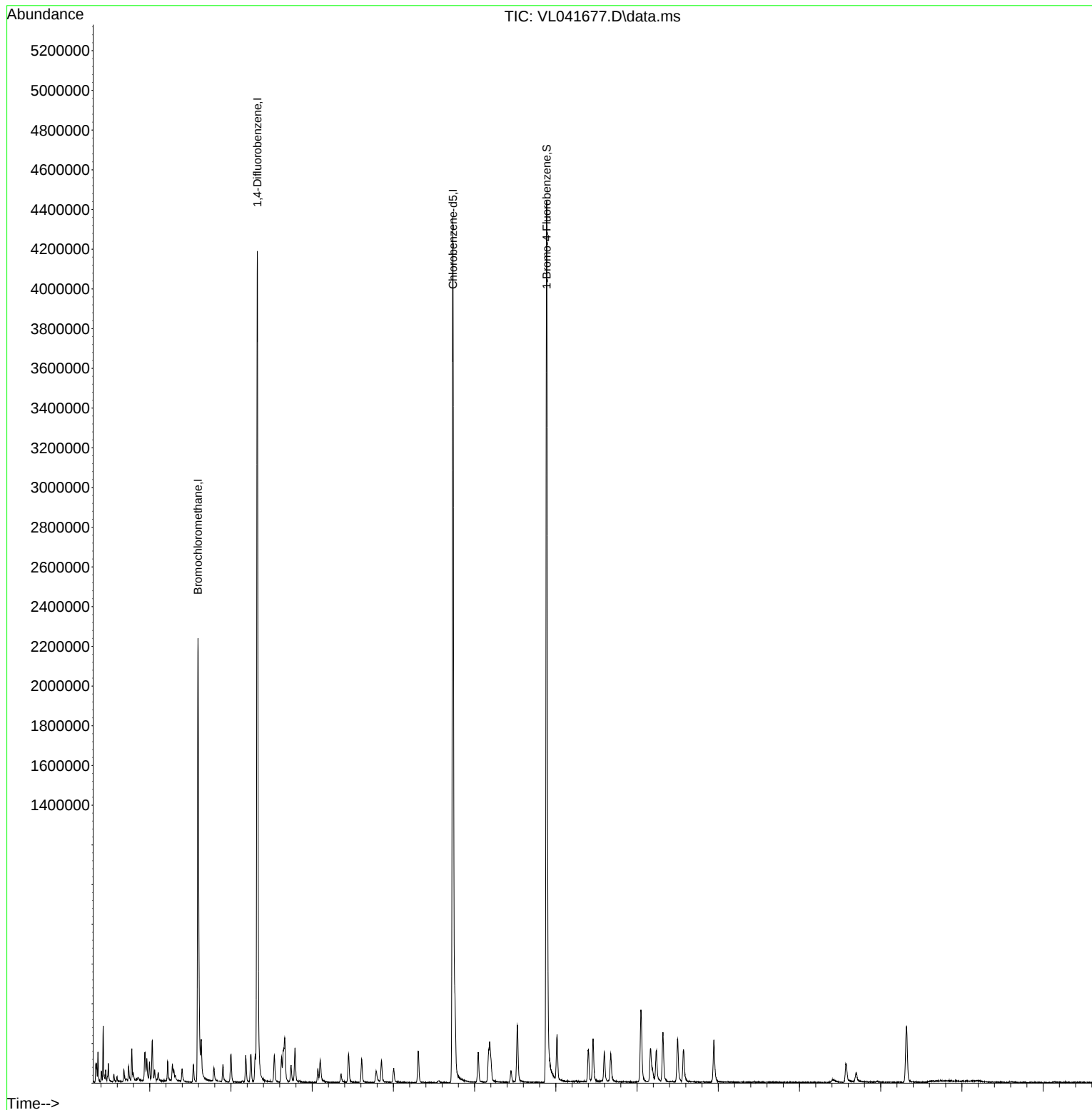
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041677.D
Acq On : 7 Nov 2024 12:13
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:11:14 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Nov 08 00:07:44 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041678.D
 Acq On : 7 Nov 2024 12:52
 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 :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:11:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Nov 08 00:07:44 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	1123559	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	3159589	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2815160	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.774	95	2112048	10.145	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	2.915	62	5503	0.078	ppbv	97
32) 1,1,1-Trichloroethane	6.002	97	14483m	0.087	ppbv	
35) Carbon Tetrachloride	6.488	117	13438m	0.080	ppbv	
38) Trichloroethene	7.291	130	7336m	0.081	ppbv	
52) Tetrachloroethene	10.613	164	6067m	0.076	ppbv	
54) 1,2-Dibromoethane	10.005	107	7494m	0.064	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.047	83	15978m	0.082	ppbv	
79) Naphthalene	21.400	128	7580m	0.039	ppbv	

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

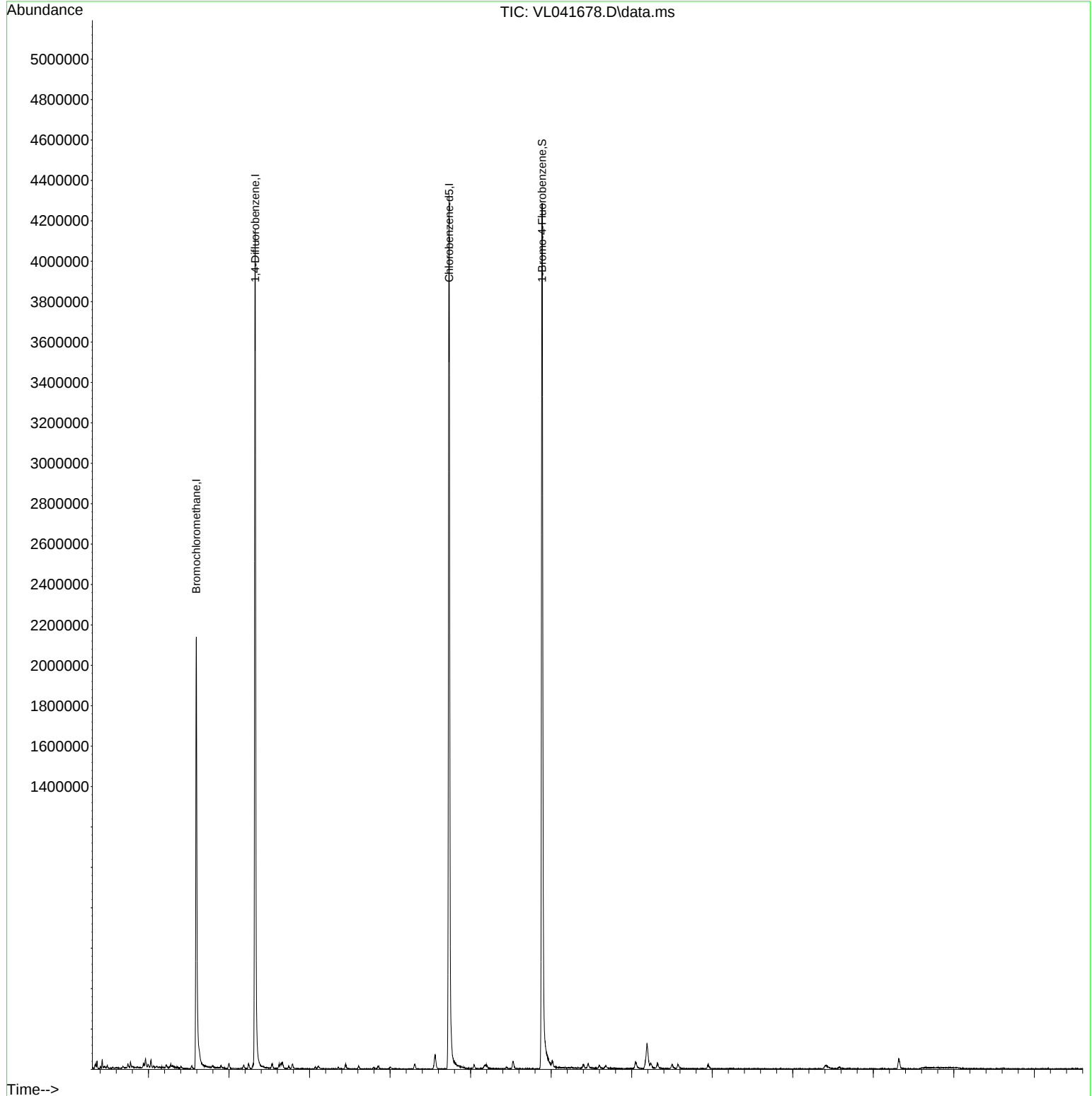
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041678.D
Acq On : 7 Nov 2024 12:52
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:11:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Nov 08 00:07:44 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041679.D
 Acq On : 7 Nov 2024 13:31
 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 :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:12:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2
 QLast Update : Fri Nov 08 00:07:44 2024
 Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane		5.192	49	1085923	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.652	114	3041887	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.465	117	2745730	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.777	95	2034307	10.018	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 100.200%	
Target Compounds							
						Qvalue	
5) Vinyl Chloride		2.922	62	2094m	0.031	ppbv	
63) 1,1,2,2-Tetrachloroethane		13.047	83	6025m	0.032	ppbv	

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

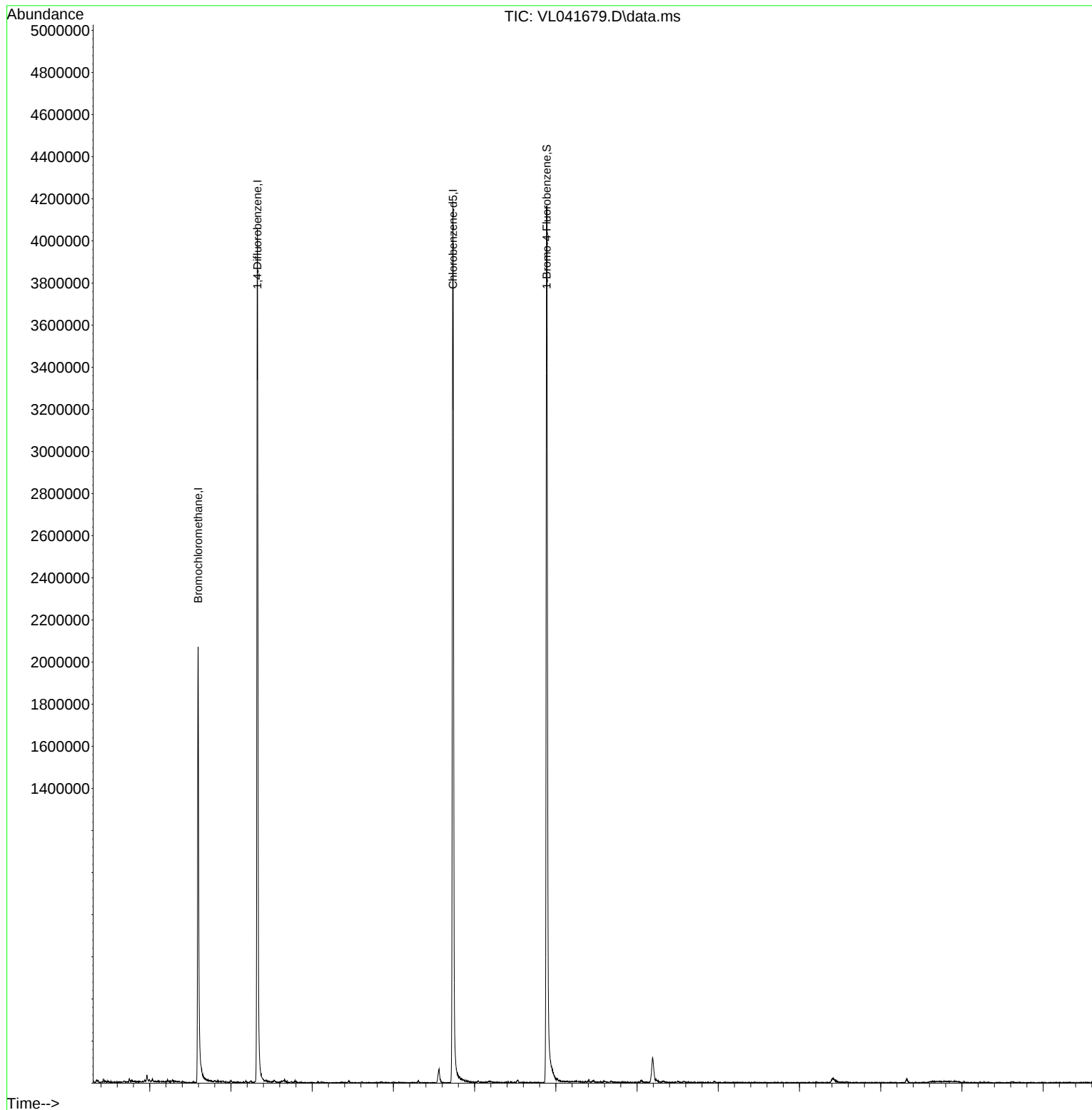
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041679.D
Acq On : 7 Nov 2024 13:31
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Nov 08 00:12:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Nov 08 00:07:44 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024
Supervised By : Semsettin Yesilyurt 11/09/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041680.D
 Acq On : 7 Nov 2024 14:12
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Nov 08 00:13:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Nov 08 00:07:44 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024
 Supervised By : Semsettin Yesilyurt 11/09/2024

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

Internal Standards						
1) Bromochloromethane	5.192	49	1139788	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	3182548	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	3271350	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2357958	9.746	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.500%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	2.729	85	3118931	15.140	ppbv	99
3) Chlorodifluoromethane	2.674	51	2003229	13.489	ppbv	99
4) Chloromethane	2.813	50	1085629	13.801	ppbv	95
5) Vinyl Chloride	2.922	62	1061943	14.900	ppbv	99
6) Bromomethane	3.121	94	543873	14.489	ppbv	99
7) Chloroethane	3.198	64	374124	14.487	ppbv	99
8) Dichlorotetrafluoroethane	2.858	85	2471590	13.440	ppbv	100
9) Propene	2.694	41	906594	14.010	ppbv	99
10) Heptane	7.581	43	2284371	15.754	ppbv	98
11) Trichlorofluoromethane	3.562	101	2504580	13.958	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.067	101	1834846	14.068	ppbv	100
13) Ethanol	3.250	45	50975m	12.664	ppbv	
14) Bromoethene	3.366	108	755053	14.401	ppbv	98
15) Acetone	3.469	43	1886393	13.448	ppbv	99
16) 1,3-Butadiene	2.986	39	1081107	15.371	ppbv	99
17) tert-Butyl alcohol	3.880	59	1663672	13.516	ppbv	100
18) 1,1-Dichloroethene	3.880	96	834933	14.596	ppbv	93
19) Isopropyl Alcohol	3.575	45	910280	13.406	ppbv	100
20) Methylene Chloride	3.932	84	687212	13.313	ppbv	96
21) Allyl Chloride	3.996	41	1317025	15.194	ppbv	99
22) trans-1,2-Dichloroethene	4.446	96	842095	14.755	ppbv	97
23) Vinyl Acetate	4.626	43	926796	14.047	ppbv	98
24) 1,1-Dichloroethane	4.565	63	1790354	14.103	ppbv	99
25) Ethyl Acetate	5.205	43	4234322	14.583	ppbv	100
26) Hexane	5.211	57	1693823	15.184	ppbv	96
27) Carbon Disulfide	4.124	76	2071779	16.531	ppbv	99
28) Methyl tert-Butyl Ether	4.587	73	988726	13.764	ppbv	99
29) Chloroform	5.276	83	2615593	14.204	ppbv	98
30) Cyclohexane	6.600	84	1445757	16.132	ppbv	99
31) cis-1,2-Dichloroethene	5.079	61	1655410	15.426	ppbv	98
32) 1,1,1-Trichloroethane	6.005	97	2576420	15.262	ppbv	99
34) 2-Butanone	4.787	43	2382292	15.033	ppbv	100
35) Carbon Tetrachloride	6.497	117	2728914	16.220	ppbv	98
36) Benzene	6.372	78	3579956	15.182	ppbv	100
37) 1,2-Dichloroethane	5.809	62	1992504	14.978	ppbv	99
38) Trichloroethene	7.295	130	1492186	16.410	ppbv	98
39) 1,2-Dichloropropane	7.076	63	1405373	15.081	ppbv	99
40) 1,4-Dioxane	7.285	88	545340	16.521	ppbv	93
41) Tetrahydrofuran	5.555	42	1449986	16.040	ppbv	99
42) Bromodichloromethane	7.253	83	2869440	15.522	ppbv	99
43) Methyl Methacrylate	7.475	69	1439612	17.388	ppbv	99
44) 2,2,4-Trimethylpentane	7.327	57	5922866	14.828	ppbv	100
45) t-1,3-Dichloropropene	8.713	75	1469151	19.850	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041680.D
 Acq On : 7 Nov 2024 14:12
 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 : Mahesh Dadoda 11/09/2024
 Supervised By : Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 00:13:20 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.144	75	1964082	18.259	ppbv	98
47) 1,1,2-Trichloroethane	8.902	97	1496508	14.895	ppbv	99
48) Dibromochloromethane	9.713	129	2521147	16.444	ppbv	100
49) Bromoform	12.413	173	2265132	17.318	ppbv	99
50) 4-Methyl-2-Pentanone	8.182	43	3873850	15.919	ppbv	99
51) 2-Hexanone	9.552	43	3096656	17.512	ppbv #	99
52) Tetrachloroethene	10.616	164	1362327	16.900	ppbv	98
53) Toluene	9.224	91	4192947	16.909	ppbv	100
54) 1,2-Dibromoethane	10.012	107	2047188	17.451	ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.510	131	1851127	13.588	ppbv	98
57) Chlorobenzene	11.529	112	3280487	13.453	ppbv	99
58) Ethyl Benzene	12.092	91	5635176	15.550	ppbv	98
59) m/p-Xylene	12.372	91	9532832m	29.406	ppbv	
60) o-Xylene	13.063	91	4598783	14.859	ppbv	100
61) Styrene	12.902	104	2329096	18.233	ppbv	100
62) Isopropylbenzene	14.031	105	6769619	14.169	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.050	83	3217179	14.277	ppbv	100
64) n-propylbenzene	14.918	120	1875181	15.010	ppbv	95
65) tert-Butylbenzene	16.095	119	6075642	14.149	ppbv	100
66) Benzyl Chloride	16.333	91	602019	19.466	ppbv	99
67) sec-Butylbenzene	16.638	105	8477471	14.008	ppbv	99
69) p-Isopropyltoluene	16.999	119	7127872	14.562	ppbv	99
70) n-Butylbenzene	17.889	91	7337569	14.625	ppbv	98
71) 2-Chlorotoluene	14.806	91	5195848	15.038	ppbv	99
72) 4-Ethyltoluene	15.198	105	5625512	15.652	ppbv	99
73) 1,3,5-Trimethylbenzene	15.355	105	4772611	15.144	ppbv	99
74) 1,2,4-Trimethylbenzene	16.114	105	5199497	14.183	ppbv	95
75) 1,3-Dichlorobenzene	16.336	146	3296952	14.559	ppbv	100
76) 1,4-Dichlorobenzene	16.478	146	3204404	14.402	ppbv	100
77) 1,2-Dichlorobenzene	17.150	146	3223835	14.336	ppbv	100
78) Hexachloro-1,3-Butadiene	22.638	225	2162938	12.158	ppbv	99
79) Naphthalene	21.391	128	4363777	19.355	ppbv	99
80) Naphthalene,2-methyl-	24.374	142	967466m	23.129	ppbv	
81) 1,2,4-Trichlorobenzene	21.146	180	2238509	15.962	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041681.D
 Acq On : 7 Nov 2024 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL110724

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 01:08:38 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	1219218	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	3384840	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	3288136m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 13.780 95 2384630 9.843 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 98.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.732	85	1794893	8.145	ppbv	100
3) Chlorodifluoromethane	2.677	51	1429744	9.000	ppbv	99
4) Chloromethane	2.816	50	787537	9.359	ppbv	97
5) Vinyl Chloride	2.922	62	774506	10.232	ppbv	98
6) Bromomethane	3.121	94	379427	9.449	ppbv	98
7) Chloroethane	3.198	64	265929	9.626	ppbv	99
8) Dichlorotetrafluoroethane	2.861	85	1752691	8.910	ppbv	100
9) Propene	2.697	41	684685	9.892	ppbv	100
10) Heptane	7.581	43	1623259	10.465	ppbv	100
11) Trichlorofluoromethane	3.562	101	1715400	8.937	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.066	101	1286962	9.225	ppbv	100
13) Ethanol	3.253	45	41860m	9.876	ppbv	
14) Bromoethene	3.369	108	547085	9.755	ppbv	97
15) Acetone	3.468	43	1307631	8.715	ppbv	98
16) 1,3-Butadiene	2.986	39	762546	10.072	ppbv	98
17) tert-Butyl alcohol	3.877	59	1421835	10.798	ppbv	99
18) 1,1-Dichloroethene	3.880	96	589373	9.632	ppbv	95
19) Isopropyl Alcohol	3.578	45	762103	10.626	ppbv #	97
20) Methylene Chloride	3.934	84	490767	8.888	ppbv	98
21) Allyl Chloride	3.996	41	952403	10.272	ppbv	99
22) trans-1,2-Dichloroethene	4.446	96	602606	9.905	ppbv	100
23) Vinyl Acetate	4.629	43	659846	9.976	ppbv #	95
24) 1,1-Dichloroethane	4.565	63	1246280	9.177	ppbv	98
25) Ethyl Acetate	5.205	43	3059483	9.850	ppbv	100
26) Hexane	5.214	57	1221365	10.235	ppbv	97
27) Carbon Disulfide	4.124	76	1427544	10.648	ppbv	98
28) Methyl tert-Butyl Ether	4.587	73	764924	9.954	ppbv	99
29) Chloroform	5.275	83	1805559	9.167	ppbv	100
30) Cyclohexane	6.603	84	1036810	10.204	ppbv	99
31) cis-1,2-Dichloroethene	5.079	61	1190854	10.374	ppbv	100
32) 1,1,1-Trichloroethane	6.002	97	1797279	10.002	ppbv	100
34) 2-Butanone	4.787	43	1751089	10.390	ppbv	100
35) Carbon Tetrachloride	6.494	117	1829420	10.244	ppbv	100
36) Benzene	6.368	78	2560057	10.208	ppbv	99
37) 1,2-Dichloroethane	5.809	62	1376089	9.726	ppbv	99
38) Trichloroethene	7.291	130	1018788	10.577	ppbv	99
39) 1,2-Dichloropropane	7.073	63	983477	9.923	ppbv	96
40) 1,4-Dioxane	7.288	88	376201	10.579	ppbv #	1
41) Tetrahydrofuran	5.555	42	1065202	11.067	ppbv	99
42) Bromodichloromethane	7.253	83	1966589	10.002	ppbv	100
43) Methyl Methacrylate	7.475	69	1010315	11.473	ppbv	99
44) 2,2,4-Trimethylpentane	7.327	57	4253439	10.012	ppbv	99
45) t-1,3-Dichloropropene	8.712	75	979763	12.176	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041681.D
 Acq On : 7 Nov 2024 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL110724

Quant Time: Nov 08 01:08:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Nov 08 01:01:00 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024
 Supervised By : Semsettin Yesilyurt 11/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.143	75	1335370	11.555	ppbv	99
47) 1,1,2-Trichloroethane	8.899	97	1027960	9.583	ppbv	99
48) Dibromochloromethane	9.712	129	1697504	10.410	ppbv	100
49) Bromoform	12.410	173	1467565	10.519	ppbv	99
50) 4-Methyl-2-Pentanone	8.182	43	2720056	10.513	ppbv	99
51) 2-Hexanone	9.552	43	2131991	11.315	ppbv #	98
52) Tetrachloroethene	10.613	164	931693	10.901	ppbv	97
53) Toluene	9.220	91	2900278	10.997	ppbv	99
54) 1,2-Dibromoethane	10.011	107	1383939	11.043	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.510	131	1248422	9.206	ppbv	99
57) Chlorobenzene	11.529	112	2237120	9.199	ppbv	100
58) Ethyl Benzene	12.092	91	3855683	10.696	ppbv	99
59) m/p-Xylene	12.375	91	6465658m	20.029	ppbv	
60) o-Xylene	13.060	91	3103973	10.084	ppbv	100
61) Styrene	12.896	104	1535856	12.089	ppbv	100
62) Isopropylbenzene	14.031	105	4605291	9.687	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.050	83	2141628	9.458	ppbv	100
64) n-propylbenzene	14.918	120	1242370	9.983	ppbv	100
65) tert-Butylbenzene	16.092	119	4128160	9.661	ppbv	100
66) Benzyl Chloride	16.326	91	333479	10.145	ppbv	99
67) sec-Butylbenzene	16.638	105	5771671	9.584	ppbv	100
69) p-Isopropyltoluene	16.998	119	4841188	9.944	ppbv	100
70) n-Butylbenzene	17.889	91	4961330	9.960	ppbv	99
71) 2-Chlorotoluene	14.799	91	3477879	10.121	ppbv	100
72) 4-Ethyltoluene	15.194	105	3765544	10.522	ppbv	99
73) 1,3,5-Trimethylbenzene	15.352	105	3164645	10.077	ppbv	99
74) 1,2,4-Trimethylbenzene	16.111	105	3509579	9.621	ppbv	95
75) 1,3-Dichlorobenzene	16.333	146	2153016	9.530	ppbv	99
76) 1,4-Dichlorobenzene	16.474	146	2087766	9.578	ppbv	99
77) 1,2-Dichlorobenzene	17.146	146	2076942	9.280	ppbv #	70
78) Hexachloro-1,3-Butadiene	22.635	225	1380777	7.801	ppbv	100
79) Naphthalene	21.384	128	2753473	12.229	ppbv	99
80) Naphthalene,2-methyl-	24.374	142	582436	11.866	ppbv	93
81) 1,2,4-Trichlorobenzene	21.143	180	1413820	9.985	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041681.D
 Acq On : 7 Nov 2024 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL110724

Quant Time: Nov 08 01:08:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 08 01:01:00 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	104	0.00
2 T	Dichlorodifluoromethane	1.807	1.472	18.5	81	0.00
3	Chlorodifluoromethane	1.303	1.173	10.0	103	0.00
4	Chloromethane	0.690	0.646	6.4	104	0.00
5 T	Vinyl Chloride	0.621	0.635	-2.3	106	0.00
6 T	Bromomethane	0.329	0.311	5.5	102	0.00
7	Chloroethane	0.227	0.218	4.0	102	0.00
8 T	Dichlorotetrafluoroethane	1.613	1.438	10.8	101	0.00
9 T	Propene	0.568	0.562	1.1	110	0.00
10 T	Heptane	1.272	1.331	-4.6	106	0.00
11 T	Trichlorofluoromethane	1.574	1.407	10.6	99	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.144	1.056	7.7	102	0.00
13	Ethanol	0.035	0.034#	2.9	124	0.00
14 T	Bromoethene	0.460	0.449	2.4	108	0.00
15 T	Acetone	1.231	1.073	12.8	102	0.00
16 T	1,3-Butadiene	0.621	0.625	-0.6	104	0.00
17	tert-Butyl alcohol	1.080	1.166	-8.0	117	0.00
18 T	1,1-Dichloroethene	0.502	0.483	3.8	106	0.00
19 T	Isopropyl Alcohol	0.588	0.625	-6.3	118	0.00
20 T	Methylene Chloride	0.453	0.403	11.0	105	0.00
21 T	Allyl Chloride	0.761	0.781	-2.6	107	0.00
22 T	trans-1,2-Dichloroethene	0.499	0.494	1.0	106	0.00
23 T	Vinyl Acetate	0.543	0.541	0.4	110	0.00
24 T	1,1-Dichloroethane	1.114	1.022	8.3	102	0.00
25 T	Ethyl Acetate	2.548	2.509	1.5	106	0.00
26 T	Hexane	0.979	1.002	-2.3	108	0.00
27 T	Carbon Disulfide	1.100	1.171	-6.5	104	0.00
28 T	Methyl tert-Butyl Ether	0.630	0.627	0.5	114	0.00
29 T	Chloroform	1.616	1.481	8.4	101	0.00
30 T	Cyclohexane	0.833	0.850	-2.0	107	0.00
31 T	cis-1,2-Dichloroethene	0.942	0.977	-3.7	109	0.00
32 T	1,1,1-Trichloroethane	1.474	1.474	0.0	103	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
34 T	2-Butanone	0.498	0.517	-3.8	112	0.00
35 T	Carbon Tetrachloride	0.528	0.540	-2.3	99	0.00
36 T	Benzene	0.741	0.756	-2.0	106	0.00
37 T	1,2-Dichloroethane	0.418	0.407	2.6	103	0.00
38 T	Trichloroethene	0.285	0.301	-5.6	103	0.00
39 T	1,2-Dichloropropane	0.293	0.291	0.7	106	0.00
40 T	1,4-Dioxane	0.105	0.111	-5.7	104	0.00
41 T	Tetrahydrofuran	0.284	0.315	-10.9	111	0.00
42 T	Bromodichloromethane	0.581	0.581	0.0	102	0.00
43	Methyl Methacrylate	0.260	0.298	-14.6	108	0.00
44 T	2,2,4-Trimethylpentane	1.255	1.257	-0.2	104	0.00
45 T	t-1,3-Dichloropropene	0.238	0.289	-21.4	106	0.00
46 T	cis-1,3-Dichloropropene	0.341	0.395	-15.8	106	0.00
47 T	1,1,2-Trichloroethane	0.317	0.304	4.1	102	0.00
48 T	Dibromochloromethane	0.482	0.502	-4.1	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041681.D
 Acq On : 7 Nov 2024 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL110724

Quant Time: Nov 08 01:08:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 08 01:01:00 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	0.412	0.434	-5.3	98	0.00
50 T	4-Methyl-2-Pentanone	0.764	0.804	-5.2	103	0.00
51 T	2-Hexanone	0.557	0.630	-13.1	104	0.00
52 T	Tetrachloroethene	0.252	0.275	-9.1	104	0.00
53 T	Toluene	0.779	0.857	-10.0	104	0.00
54 T	1,2-Dibromoethane	0.370	0.409	-10.5	102	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
56	1,1,1,2-Tetrachloroethane	0.412	0.380	7.8	99	0.00
57 T	Chlorobenzene	0.740	0.680	8.1	100	0.00
58 T	Ethyl Benzene	1.096	1.173	-7.0	102	0.00
59 T	m/p-Xylene	0.982	0.983	-0.1	100	0.00
60 T	o-Xylene	0.936	0.944	-0.9	99	0.00
61 T	Styrene	0.386	0.467	-21.0	101	0.00
62	Isopropylbenzene	1.446	1.401	3.1	99	0.00
63 T	1,1,2,2-Tetrachloroethane	0.689	0.651	5.5	98	0.00
64	n-propylbenzene	0.378	0.378	0.0	99	0.00
65	tert-Butylbenzene	1.299	1.255	3.4	99	0.00
66 T	Benzyl Chloride	0.100	0.101	-1.0	93	0.00
67	sec-Butylbenzene	1.831	1.755	4.2	99	0.00
68 S	1-Bromo-4-Fluorobenzene	0.737	0.725	1.6	100	0.00
69	p-Isopropyltoluene	1.481	1.472	0.6	98	0.00
70	n-Butylbenzene	1.515	1.509	0.4	99	0.00
71	2-Chlorotoluene	1.045	1.058	-1.2	99	0.00
72 T	4-Ethyltoluene	1.088	1.145	-5.2	100	0.00
73 T	1,3,5-Trimethylbenzene	0.955	0.962	-0.7	98	0.00
74 T	1,2,4-Trimethylbenzene	1.109	1.067	3.8	98	0.00
75 T	1,3-Dichlorobenzene	0.687	0.655	4.7	98	0.00
76 T	1,4-Dichlorobenzene	0.663	0.635	4.2	97	0.00
77 T	1,2-Dichlorobenzene	0.681	0.632	7.2	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.538	0.420	21.9	97	0.00
79 T	Naphthalene	0.685	0.837	-22.2	99	0.00
80 T	Naphthalene,2-methyl-	0.149	0.177	-18.8	125	0.00
81 T	1,2,4-Trichlorobenzene	0.431	0.430	0.2	100	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041681.D
 Acq On : 7 Nov 2024 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL110724

Quant Time: Nov 08 01:08:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 08 01:01:00 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	104	0.00
2 T	Dichlorodifluoromethane	10.000	8.145	18.6	81	0.00
3	Chlorodifluoromethane	10.000	9.000	10.0	103	0.00
4	Chloromethane	10.000	9.359	6.4	104	0.00
5 T	Vinyl Chloride	10.000	10.232	-2.3	106	0.00
6 T	Bromomethane	10.000	9.449	5.5	102	0.00
7	Chloroethane	10.000	9.626	3.7	102	0.00
8 T	Dichlorotetrafluoroethane	10.000	8.910	10.9	101	0.00
9 T	Propene	10.000	9.892	1.1	110	0.00
10 T	Heptane	10.000	10.465	-4.6	106	0.00
11 T	Trichlorofluoromethane	10.000	8.937	10.6	99	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.225	7.8	102	0.00
13	Ethanol	10.000	9.876	1.2	124	0.00
14 T	Bromoethene	10.000	9.755	2.4	108	0.00
15 T	Acetone	10.000	8.715	12.9	102	0.00
16 T	1,3-Butadiene	10.000	10.072	-0.7	104	0.00
17	tert-Butyl alcohol	10.000	10.798	-8.0	117	0.00
18 T	1,1-Dichloroethene	10.000	9.632	3.7	106	0.00
19 T	Isopropyl Alcohol	10.000	10.626	-6.3	118	0.00
20 T	Methylene Chloride	10.000	8.888	11.1	105	0.00
21 T	Allyl Chloride	10.000	10.272	-2.7	107	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.905	1.0	106	0.00
23 T	Vinyl Acetate	10.000	9.976	0.2	110	0.00
24 T	1,1-Dichloroethane	10.000	9.177	8.2	102	0.00
25 T	Ethyl Acetate	10.000	9.850	1.5	106	0.00
26 T	Hexane	10.000	10.235	-2.3	108	0.00
27 T	Carbon Disulfide	10.000	10.648	-6.5	104	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.954	0.5	114	0.00
29 T	Chloroform	10.000	9.167	8.3	101	0.00
30 T	Cyclohexane	10.000	10.204	-2.0	107	0.00
31 T	cis-1,2-Dichloroethene	10.000	10.374	-3.7	109	0.00
32 T	1,1,1-Trichloroethane	10.000	10.002	-0.0	103	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	104	0.00
34 T	2-Butanone	10.000	10.390	-3.9	112	0.00
35 T	Carbon Tetrachloride	10.000	10.244	-2.4	99	0.00
36 T	Benzene	10.000	10.208	-2.1	106	0.00
37 T	1,2-Dichloroethane	10.000	9.726	2.7	103	0.00
38 T	Trichloroethene	10.000	10.577	-5.8	103	0.00
39 T	1,2-Dichloropropane	10.000	9.923	0.8	106	0.00
40 T	1,4-Dioxane	10.000	10.579	-5.8	104	0.00
41 T	Tetrahydrofuran	10.000	11.067	-10.7	111	0.00
42 T	Bromodichloromethane	10.000	10.002	-0.0	102	0.00
43	Methyl Methacrylate	10.000	11.473	-14.7	108	0.00
44 T	2,2,4-Trimethylpentane	10.000	10.012	-0.1	104	0.00
45 T	t-1,3-Dichloropropene	10.000	12.176	-21.8	106	0.00
46 T	cis-1,3-Dichloropropene	10.000	11.555	-15.5	106	0.00
47 T	1,1,2-Trichloroethane	10.000	9.583	4.2	102	0.00
48 T	Dibromochloromethane	10.000	10.410	-4.1	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041681.D
 Acq On : 7 Nov 2024 14:51
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL110724

Quant Time: Nov 08 01:08:38 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 08 01:01:00 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	10.519	-5.2	98	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.513	-5.1	103	0.00
51 T	2-Hexanone	10.000	11.315	-13.1	104	0.00
52 T	Tetrachloroethene	10.000	10.901	-9.0	104	0.00
53 T	Toluene	10.000	10.997	-10.0	104	0.00
54 T	1,2-Dibromoethane	10.000	11.043	-10.4	102	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	99	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.206	7.9	99	0.00
57 T	Chlorobenzene	10.000	9.199	8.0	100	0.00
58 T	Ethyl Benzene	10.000	10.696	-7.0	102	0.00
59 T	m/p-Xylene	20.000	20.029	-0.1	100	0.00
60 T	o-Xylene	10.000	10.084	-0.8	99	0.00
61 T	Styrene	10.000	12.089	-20.9	101	0.00
62	Isopropylbenzene	10.000	9.687	3.1	99	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.458	5.4	98	0.00
64	n-propylbenzene	10.000	9.983	0.2	99	0.00
65	tert-Butylbenzene	10.000	9.661	3.4	99	0.00
66 T	Benzyl Chloride	10.000	10.145	-1.4	93	0.00
67	sec-Butylbenzene	10.000	9.584	4.2	99	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.843	1.6	100	0.00
69	p-Isopropyltoluene	10.000	9.944	0.6	98	0.00
70	n-Butylbenzene	10.000	9.960	0.4	99	0.00
71	2-Chlorotoluene	10.000	10.121	-1.2	99	0.00
72 T	4-Ethyltoluene	10.000	10.522	-5.2	100	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.077	-0.8	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.621	3.8	98	0.00
75 T	1,3-Dichlorobenzene	10.000	9.530	4.7	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.578	4.2	97	0.00
77 T	1,2-Dichlorobenzene	10.000	9.280	7.2	97	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.801	22.0	97	0.00
79 T	Naphthalene	10.000	12.229	-22.3	99	0.00
80 T	Naphthalene,2-methyl-	10.000	11.866	-18.7	125	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.985	0.2	100	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.: P4696 SAS No.: P4696 SDG No.: P4696

Instrument ID: MSVOA_L Calibration Date/Time: 11/07/2024 10:15

Lab File ID: VL041674.D Init. Calib. Date(s): 11/07/2024 11/07/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:15 14:12

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.621	0.626		0.81	
Heptane	1.272	1.311		3.07	
1,1-Dichloroethene	0.502	0.476		-5.18	
Cyclohexane	0.833	0.825		-0.96	
cis-1,2-Dichloroethene	0.942	0.936		-0.64	
1,1,1-Trichloroethane	1.474	1.488		0.95	
2,2,4-Trimethylpentane	1.255	1.251		-0.32	
Benzene	0.741	0.738		-0.41	
1,2-Dichloroethane	0.418	0.408		-2.39	
Trichloroethene	0.285	0.303		6.32	
Toluene	0.779	0.855		9.76	
Tetrachloroethene	0.252	0.276		9.52	
Ethyl Benzene	1.096	1.141		4.11	
m/p-Xylene	0.982	0.975		-0.71	
o-Xylene	0.936	0.947		1.17	
1,3,5-Trimethylbenzene	0.955	0.967		1.26	
1,2,4-Trimethylbenzene	1.109	1.071		-3.43	
Naphthalene	0.685	0.832		21.46	
1-Bromo-4-Fluorobenzene	0.737	0.716		-2.85	
Hexane	0.979	0.966		-1.33	

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\VL110724\
 Data File : VL041674.D
 Acq On : 7 Nov 2024 10:15
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Nov 08 00:09:03 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

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

Internal Standards						
1) Bromochloromethane	5.188	49	1170802	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.651	114	3260349	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	3326206m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.773	95	2380541	9.677	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.726	85	2208753	10.438	ppbv	100
3) Chlorodifluoromethane	2.671	51	1393427	9.135	ppbv	100
4) Chloromethane	2.809	50	760160	9.408	ppbv	100
5) Vinyl Chloride	2.915	62	732442	10.005	ppbv	100
6) Bromomethane	3.115	94	371242	9.628	ppbv	100
7) Chloroethane	3.192	64	260602	9.824	ppbv	100
8) Dichlorotetrafluoroethane	2.851	85	1728631	9.151	ppbv	100
9) Propene	2.690	41	619994	9.327	ppbv	100
10) Heptane	7.577	43	1534950	10.305	ppbv	100
11) Trichlorofluoromethane	3.555	101	1732857	9.401	ppbv	100
12) 1,1,2-Trichlorotrifluo...	4.060	101	1257722	9.388	ppbv	100
13) Ethanol	3.246	45	33738m	8.160	ppbv	
14) Bromoethene	3.362	108	504428	9.366	ppbv	100
15) Acetone	3.462	43	1285781	8.923	ppbv	100
16) 1,3-Butadiene	2.980	39	734062	10.160	ppbv	100
17) tert-Butyl alcohol	3.873	59	1215299	9.611	ppbv	100
18) 1,1-Dichloroethene	3.873	96	557278	9.484	ppbv	100
19) Isopropyl Alcohol	3.571	45	646252	9.266	ppbv	100
20) Methylene Chloride	3.928	84	468549	8.837	ppbv	100
21) Allyl Chloride	3.992	41	888517	9.979	ppbv	100
22) trans-1,2-Dichloroethene	4.442	96	566347	9.660	ppbv	100
23) Vinyl Acetate	4.623	43	602236	8.886	ppbv	100
24) 1,1-Dichloroethane	4.558	63	1223224	9.380	ppbv	100
25) Ethyl Acetate	5.201	43	2883606	9.668	ppbv	100
26) Hexane	5.208	57	1130877	9.869	ppbv	100
27) Carbon Disulfide	4.118	76	1374259	10.675	ppbv	100
28) Methyl tert-Butyl Ether	4.581	73	670928	9.092	ppbv	100
29) Chloroform	5.269	83	1779347	9.407	ppbv	100
30) Cyclohexane	6.597	84	965390	10.487	ppbv	100
31) cis-1,2-Dichloroethene	5.076	61	1095423	9.937	ppbv	100
32) 1,1,1-Trichloroethane	5.999	97	1742198	10.047	ppbv	100
34) 2-Butanone	4.780	43	1559421	9.606	ppbv	100
35) Carbon Tetrachloride	6.491	117	1838964	10.670	ppbv	100
36) Benzene	6.365	78	2404772	9.955	ppbv	100
37) 1,2-Dichloroethane	5.803	62	1331275	9.768	ppbv	100
38) Trichloroethene	7.288	130	986911	10.594	ppbv	100
39) 1,2-Dichloropropane	7.073	63	927055	9.711	ppbv	100
40) 1,4-Dioxane	7.282	88	361524	10.691	ppbv	100
41) Tetrahydrofuran	5.552	42	961227	10.379	ppbv	100
42) Bromodichloromethane	7.246	83	1922752	10.153	ppbv	100
43) Methyl Methacrylate	7.471	69	939057	11.071	ppbv	100
44) 2,2,4-Trimethylpentane	7.323	57	4079001	9.968	ppbv	100
45) t-1,3-Dichloropropene	8.706	75	920537	12.141	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041674.D
 Acq On : 7 Nov 2024 10:15
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Nov 08 00:09:03 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

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

QLast Update : Fri Nov 08 00:07:44 2024

Response via : Initial Calibration

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.140	75	1257121	11.408	ppbv	100
47) 1,1,2-Trichloroethane	8.896	97	1003150	9.746	ppbv	100
48) Dibromochloromethane	9.709	129	1679053	10.690	ppbv	100
49) Bromoform	12.404	173	1497222	11.174	ppbv	100
50) 4-Methyl-2-Pentanone	8.179	43	2628657	10.544	ppbv	100
51) 2-Hexanone	9.548	43	2043690	11.281	ppbv	100
52) Tetrachloroethene	10.616	164	899580	10.893	ppbv	100
53) Toluene	9.217	91	2787590	10.973	ppbv	100
54) 1,2-Dibromoethane	10.008	107	1353490	11.262	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.507	131	1266326	9.142	ppbv	100
57) Chlorobenzene	11.526	112	2237328	9.024	ppbv	100
58) Ethyl Benzene	12.085	91	3795372	10.301	ppbv	100
59) m/p-Xylene	12.368	91	6483858m	19.671	ppbv	
60) o-Xylene	13.056	91	3148609	10.005	ppbv	100
61) Styrene	12.896	104	1515741	11.670	ppbv	100
62) Isopropylbenzene	14.027	105	4647017	9.566	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.043	83	2194609	9.578	ppbv	100
64) n-propylbenzene	14.912	120	1256955	9.895	ppbv	100
65) tert-Butylbenzene	16.088	119	4162243	9.533	ppbv	100
66) Benzyl Chloride	16.326	91	359794	11.442	ppbv	100
67) sec-Butylbenzene	16.635	105	5857608	9.519	ppbv	100
69) p-Isopropyltoluene	16.992	119	4920309	9.887	ppbv	100
70) n-Butylbenzene	17.882	91	5021145	9.843	ppbv	100
71) 2-Chlorotoluene	14.796	91	3508288	9.986	ppbv	100
72) 4-Ethyltoluene	15.191	105	3763123	10.297	ppbv	100
73) 1,3,5-Trimethylbenzene	15.349	105	3217635	10.042	ppbv	100
74) 1,2,4-Trimethylbenzene	16.104	105	3563067	9.559	ppbv	100
75) 1,3-Dichlorobenzene	16.326	146	2192903	9.524	ppbv	100
76) 1,4-Dichlorobenzene	16.471	146	2144446	9.479	ppbv	100
77) 1,2-Dichlorobenzene	17.140	146	2138612	9.353	ppbv	100
78) Hexachloro-1,3-Butadiene	22.631	225	1422723m	7.865	ppbv	
79) Naphthalene	21.384	128	2767333	12.072	ppbv	100
80) Naphthalene,2-methyl-	24.374	142	466005	10.957	ppbv	100
81) 1,2,4-Trichlorobenzene	21.136	180	1415249	9.925	ppbv	100

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



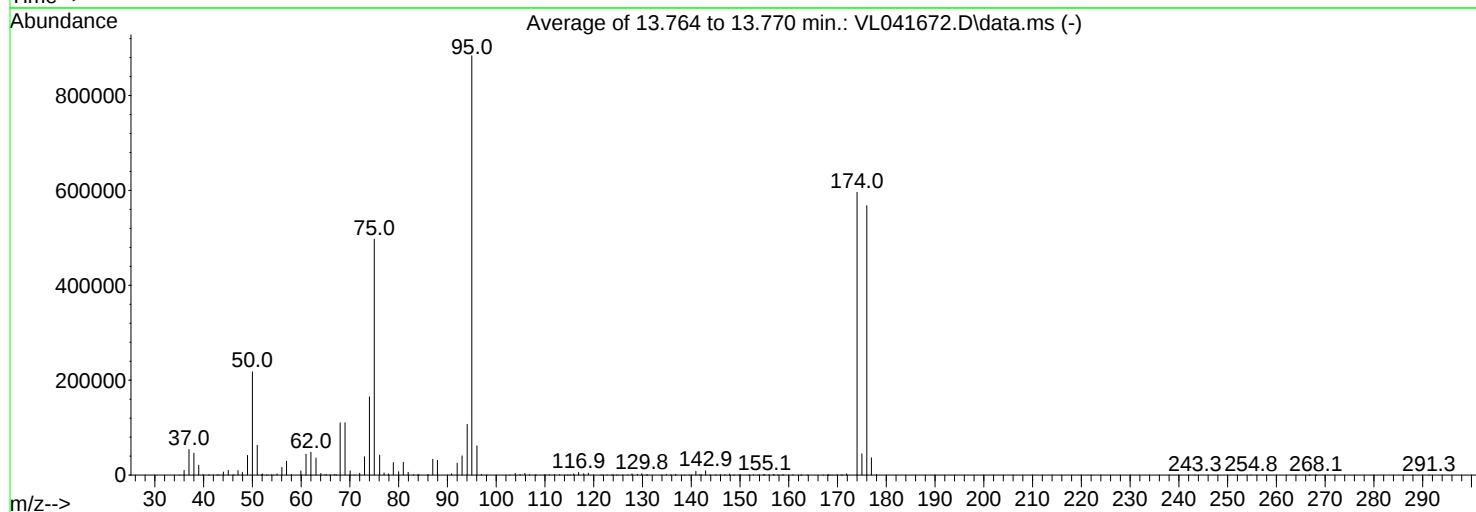
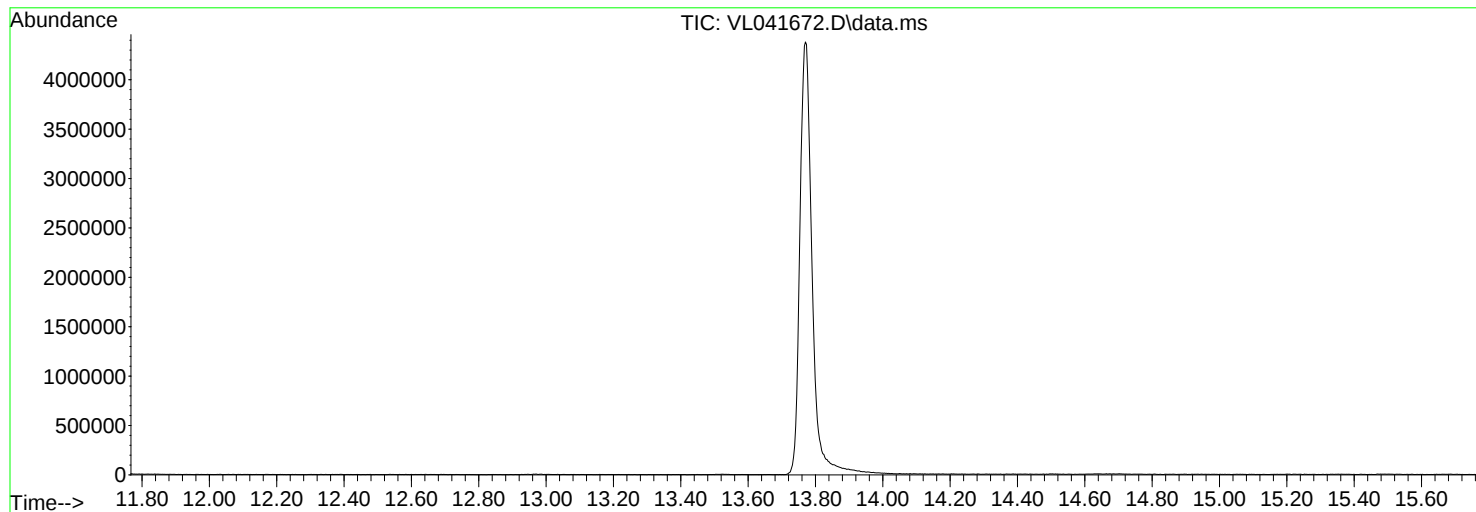
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041672.D
Acq On : 7 Nov 2024 8:58
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Nov 08 01:01:00 2024



AutoFind: Scans 3471, 3472, 3473; Background Corrected with Scan 3447

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.6	217600	PASS
75	95	30	66	56.3	497408	PASS
95	95	100	100	100.0	883883	PASS
96	95	5	9	7.0	61491	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	67.4	595968	PASS
175	174	4	9	7.5	44800	PASS
176	174	93	101	95.3	567979	PASS
177	176	5	9	6.4	36571	PASS

Average of 13.764 to 13.770 min.: VL041672.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.10	73	42.90	160	52.05	2414	62.00	48165
36.00	9800	43.15	438	52.90	207	63.05	36043
37.00	53912	44.05	6471	53.20	127	64.05	3591
38.00	46298	45.05	9806	53.90	291	64.90	1238
39.00	20824	46.20	540	54.30	110	65.20	527
39.80	346	47.05	9443	55.05	2517	65.85	154
40.00	522	47.95	6008	56.05	16198	66.10	247
41.00	219	49.00	41491	57.00	29283	66.90	1514
41.20	83	50.00	217600	58.00	1270	67.20	860
42.00	89	51.00	62976	59.95	8864	68.00	110088
42.70	136	51.90	858	61.00	43893	69.00	110461

Average of 13.764 to 13.770 min.: VL041672.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
70.05	8980	80.95	27016	94.05	106912	109.85	466
70.90	162	81.95	5922	95.00	883883	110.10	130
72.00	3884	83.05	863	96.05	61491	110.90	823
73.00	38651	83.90	55	97.00	1641	111.90	1050
74.00	165013	84.20	76	98.10	117	113.00	875
75.00	497408	86.00	1307	102.80	238	114.10	70
76.10	42112	87.00	33435	103.90	3328	114.60	206
77.00	4531	87.95	31005	104.90	1372	114.90	345
77.90	2531	90.85	2943	105.90	3759	115.20	89
78.90	26355	92.00	25072	106.85	1024	115.90	2598
80.00	7190	93.00	40613	108.00	52	116.90	5548

Average of 13.764 to 13.770 min.: VL041672.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.95	3063	127.00	433	139.60	382	147.85	2191
118.90	4179	127.85	2804	140.10	233	148.65	246
120.00	357	128.95	1493	140.95	8040	148.90	188
121.50	65	129.85	2901	141.75	896	149.80	171
121.75	128	130.80	371	142.10	442	150.05	609
122.75	374	131.00	858	142.95	9074	151.85	592
123.75	579	133.90	111	143.85	508	152.75	767
124.00	195	134.90	1463	145.05	998	153.65	267
124.65	305	135.80	288	145.95	884	154.00	439
125.00	83	136.80	1606	146.85	428	154.80	660
125.85	285	138.70	276	147.10	214	155.05	1381

Average of 13.764 to 13.770 min.: VL041672.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.95	665	168.20	131	176.95	36571		
156.85	1255	168.60	124	178.00	1029		
157.10	475	169.05	151	243.30	71		
157.75	414	169.70	102	254.80	102		
158.70	330	170.00	84	266.70	53		
158.95	563	170.75	470	268.10	56		
160.85	864	171.00	228	291.30	67		
162.50	60	171.85	2678				
163.80	79	174.00	595968				
167.10	130	175.00	44800				
168.00	53	176.00	567979				

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	3594 E Tremont Ave, Bronx NY	Date Received:	
Client Sample ID:	VL1107ABL01	SDG No.:	P4696
Lab Sample ID:	VL1107ABL01	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
VL041682.D	1		11/07/24 17:44	VL110724

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
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.12	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	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	1090000		5.185			
540-36-3	1,4-Difluorobenzene	3080000		6.645			
3114-55-4	Chlorobenzene-d5	2730000		11.45			

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\VL110724\
 Data File : VL041682.D
 Acq On : 7 Nov 2024 17:44
 Operator : SY/MD
 Sample : VL1107ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABL01

Quant Time: Nov 08 03:51:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 08 01:01:00 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	1087943	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	3078461	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	2726714	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.770	95	2030589	10.107	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

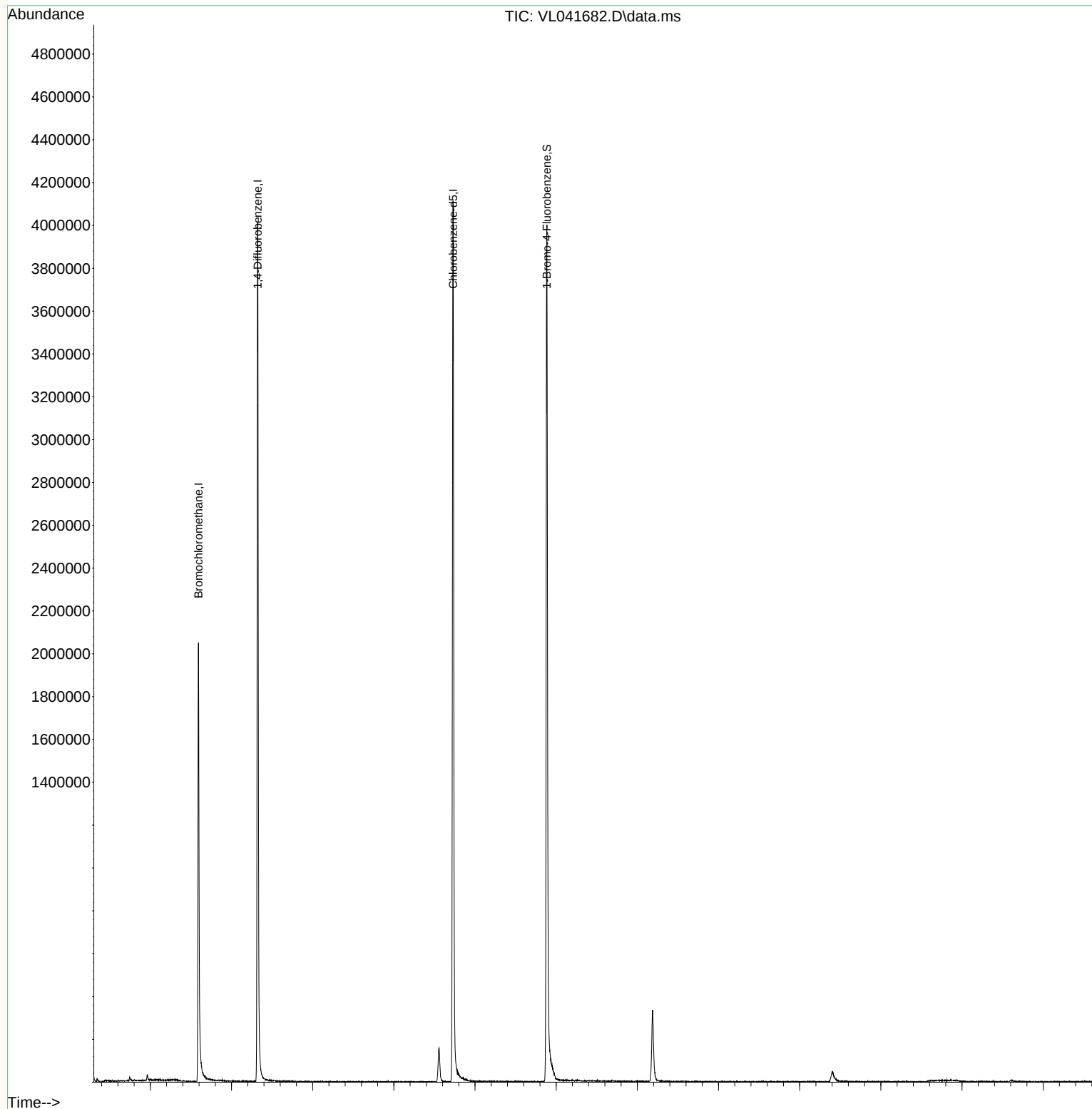
Target Compounds	Qvalue

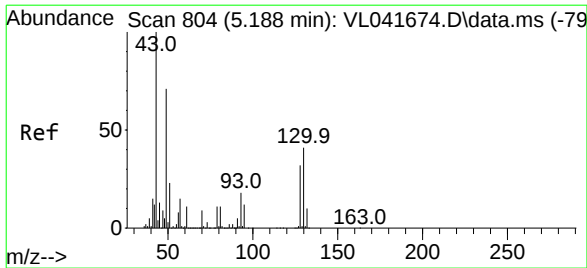
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041682.D
Acq On : 7 Nov 2024 17:44
Operator : SY/MD
Sample : VL1107ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABL01

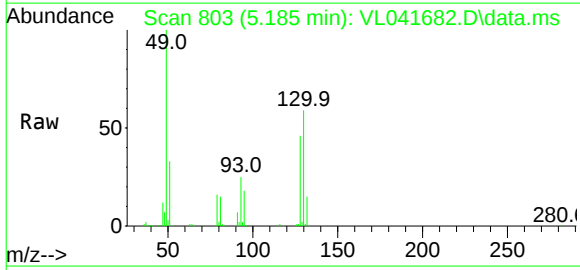
Quant Time: Nov 08 03:51:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Nov 08 01:01:00 2024
Response via : Initial Calibration





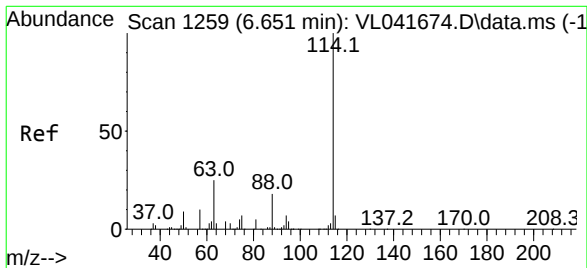
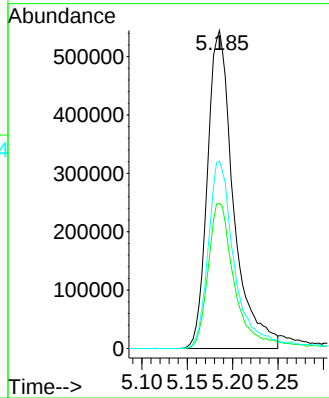
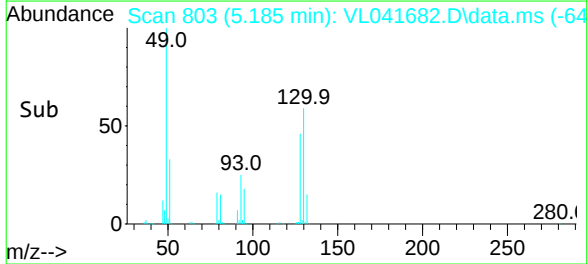
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.185 min Scan# 804
 Delta R.T. -0.003 min
 Lab File: VL041682.D
 Acq: 7 Nov 2024 17:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABL01

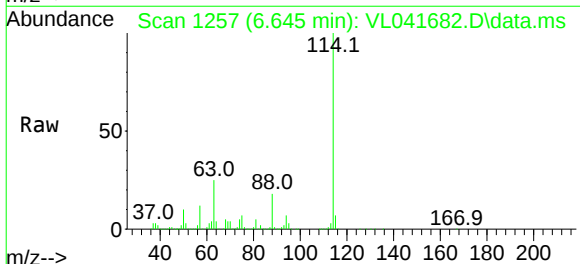


Tgt Ion: 49 Resp: 1087943

Ion	Ratio	Lower	Upper
49	100		
128	48.3	23.8	71.2
130	62.1	30.1	90.5

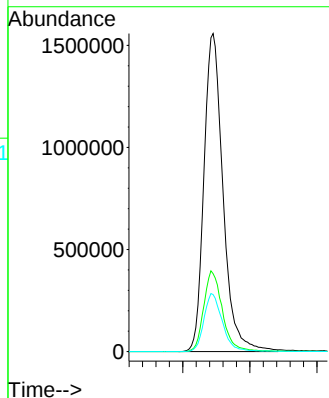
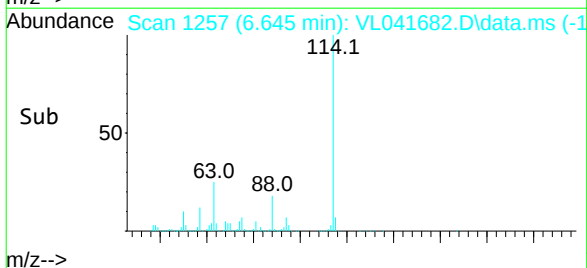


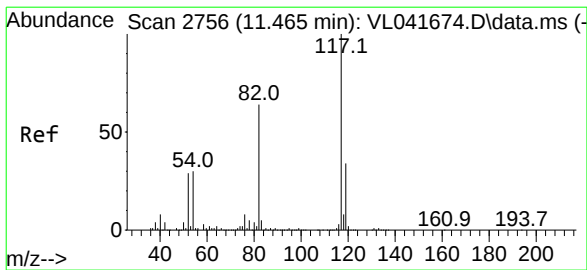
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.645 min Scan# 1257
 Delta R.T. -0.006 min
 Lab File: VL041682.D
 Acq: 7 Nov 2024 17:44



Tgt Ion: 114 Resp: 3078461

Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.3	30.5
88	17.9	14.2	21.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.458 min Scan# 27

Delta R.T. -0.006 min

Lab File: VL041682.D

Acq: 7 Nov 2024 17:44

Instrument :

MSVOA_L

ClientSampleId :

VL1107ABL01

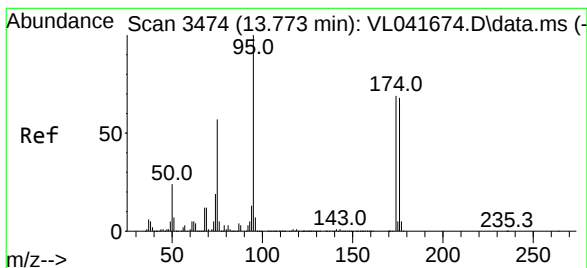
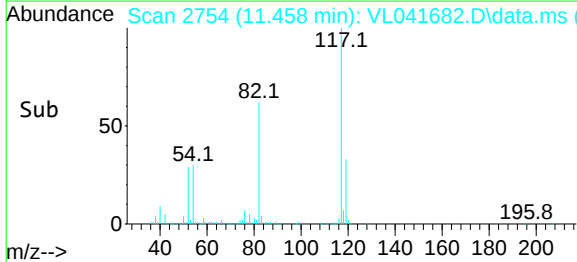
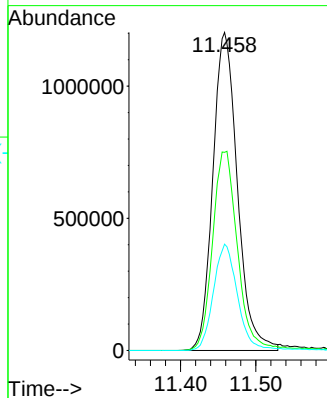
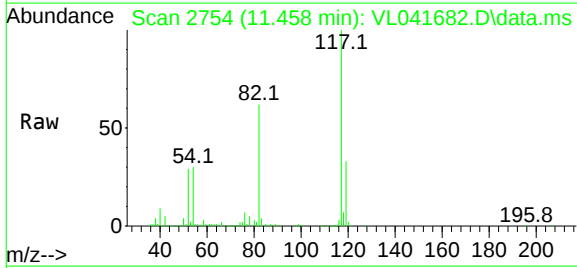
Tgt Ion:117 Resp: 2726714

Ion Ratio Lower Upper

117 100

82 64.7 49.8 74.8

119 33.2 24.2 36.4



#68

1-Bromo-4-Fluorobenzene

Concen: 10.107 ppbv

RT: 13.770 min Scan# 3473

Delta R.T. -0.003 min

Lab File: VL041682.D

Acq: 7 Nov 2024 17:44

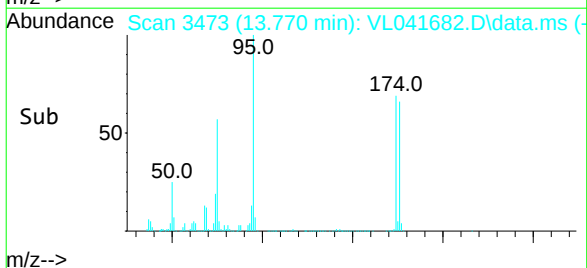
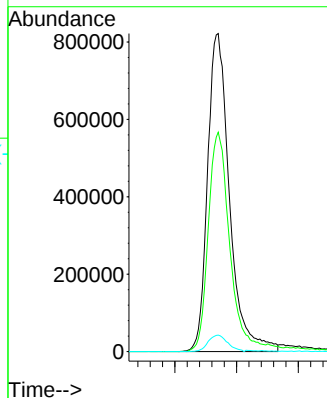
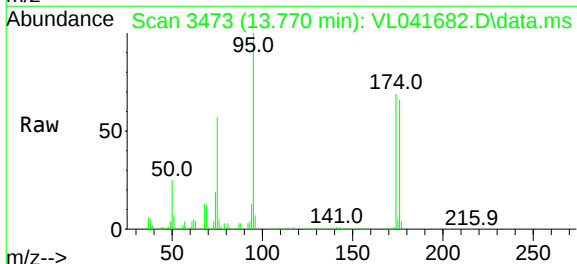
Tgt Ion: 95 Resp: 2030589

Ion Ratio Lower Upper

95 100

174 70.4 55.6 83.4

175 5.0 4.2 6.2



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	3594 E Tremont Ave, Bronx NY	Date Received:	
Client Sample ID:	VL1107ABS01	SDG No.:	P4696
Lab Sample ID:	VL1107ABS01	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
VL041683.D	1		11/07/24 18:24	VL110724

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	10.2	26.1		0.030	0.080	ug/m3
142-82-5	Heptane	10.5	43.0		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.70	38.5		0.56	1.98	ug/m3
110-82-7	Cyclohexane	9.90	34.1		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.0	39.6		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	10.3	56.2		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.1	47.2		0.47	2.34	ug/m3
71-43-2	Benzene	10.2	32.6		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.0	40.5		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.8	58.0		0.11	0.16	ug/m3
108-88-3	Toluene	11.2	42.2		0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	11.1	75.3		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	11.1	48.2		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	21.2	92.1		0.91	4.34	ug/m3
95-47-6	o-Xylene	10.7	46.5		0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.8	53.1		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.3	50.6		0.39	2.46	ug/m3
91-20-3	Naphthalene	12.5	65.5		0.42	0.52	ug/m3
110-54-3	Hexane	10.0	35.2		0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	1130000		5.185			
540-36-3	1,4-Difluorobenzene	3130000		6.648			
3114-55-4	Chlorobenzene-d5	3070000		11.45			

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\VL110724\
 Data File : VL041683.D
 Acq On : 7 Nov 2024 18:24
 Operator : SY/MD
 Sample : VL1107ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Quant Time: Nov 08 03:51:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Nov 08 01:01:00 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 11/09/2024
 Supervised By : Semsettin Yesilyurt 11/09/2024

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

Internal Standards						
1) Bromochloromethane	5.185	49	1128795	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	3126174	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.458	117	3072161m	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.770	95	2300291	10.162	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	2.726	85	2133142	10.456	ppbv	98
3) Chlorodifluoromethane	2.671	51	1358036	9.234	ppbv	100
4) Chloromethane	2.809	50	739426	9.492	ppbv	96
5) Vinyl Chloride	2.915	62	715579	10.211	ppbv	98
6) Bromomethane	3.115	94	360881	9.708	ppbv	99
7) Chloroethane	3.192	64	255796	10.001	ppbv	94
8) Dichlorotetrafluoroethane	2.854	85	1714914	9.416	ppbv	99
9) Propene	2.690	41	599297	9.352	ppbv	100
10) Heptane	7.571	43	1503499	10.470	ppbv	100
11) Trichlorofluoromethane	3.558	101	1686292	9.489	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.060	101	1233736	9.551	ppbv	99
13) Ethanol	3.250	45	29777m	7.588	ppbv	
14) Bromoethene	3.362	108	501745	9.663	ppbv	98
15) Acetone	3.462	43	1258503	9.059	ppbv	100
16) 1,3-Butadiene	2.980	39	714485	10.193	ppbv	99
17) tert-Butyl alcohol	3.874	59	1171221	9.608	ppbv	100
18) 1,1-Dichloroethene	3.874	96	550010	9.709	ppbv	97
19) Isopropyl Alcohol	3.571	45	604518	9.104	ppbv #	98
20) Methylene Chloride	3.928	84	457424	8.948	ppbv	98
21) Allyl Chloride	3.993	41	833757	9.712	ppbv	97
22) trans-1,2-Dichloroethene	4.439	96	528381	9.380	ppbv	97
23) Vinyl Acetate	4.620	43	593962	9.699	ppbv	97
24) 1,1-Dichloroethane	4.558	63	1150120	9.148	ppbv	99
25) Ethyl Acetate	5.198	43	2812437	9.780	ppbv	100
26) Hexane	5.208	57	1107924	10.028	ppbv	99
27) Carbon Disulfide	4.118	76	1322486	10.655	ppbv	100
28) Methyl tert-Butyl Ether	4.581	73	647697	9.104	ppbv	100
29) Chloroform	5.269	83	1738610	9.534	ppbv	99
30) Cyclohexane	6.594	84	935328	9.943	ppbv	99
31) cis-1,2-Dichloroethene	5.073	61	1066172	10.032	ppbv	98
32) 1,1,1-Trichloroethane	5.999	97	1706831	10.259	ppbv	100
34) 2-Butanone	4.780	43	1558779	10.014	ppbv	99
35) Carbon Tetrachloride	6.488	117	1799316	10.909	ppbv	99
36) Benzene	6.365	78	2351635	10.153	ppbv	99
37) 1,2-Dichloroethane	5.803	62	1305458	9.990	ppbv	99
38) Trichloroethene	7.285	130	958369	10.773	ppbv	98
39) 1,2-Dichloropropane	7.070	63	918548	10.035	ppbv	96
40) 1,4-Dioxane	7.282	88	306141	9.322	ppbv	71
41) Tetrahydrofuran	5.549	42	931440	10.478	ppbv	100
42) Bromodichloromethane	7.243	83	1863473	10.262	ppbv	98
43) Methyl Methacrylate	7.468	69	933637	11.480	ppbv	98
44) 2,2,4-Trimethylpentane	7.320	57	3949724	10.067	ppbv	100
45) t-1,3-Dichloropropene	8.706	75	880458	11.848	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
 Data File : VL041683.D
 Acq On : 7 Nov 2024 18:24
 Operator : SY/MD
 Sample : VL1107ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1107ABS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
 Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 03:51:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Nov 08 01:01:00 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	8.137	75	1229071	11.515	ppbv	98
47) 1,1,2-Trichloroethane	8.896	97	987685	9.970	ppbv	98
48) Dibromochloromethane	9.703	129	1630376	10.826	ppbv	99
49) Bromoform	12.401	173	1455608	11.297	ppbv	99
50) 4-Methyl-2-Pentanone	8.176	43	2571671	10.762	ppbv	100
51) 2-Hexanone	9.542	43	1998257	11.483	ppbv	100
52) Tetrachloroethene	10.610	164	879019	11.136	ppbv	96
53) Toluene	9.214	91	2735661	11.231	ppbv	100
54) 1,2-Dibromoethane	10.002	107	1309588	11.314	ppbv	100
56) 1,1,1,2-Tetrachloroethane	11.500	131	1243563	9.815	ppbv	99
57) Chlorobenzene	11.520	112	2179178	9.591	ppbv	99
58) Ethyl Benzene	12.082	91	3728449	11.070	ppbv	98
59) m/p-Xylene	12.365	91	6395484m	21.205	ppbv	
60) o-Xylene	13.053	91	3062960	10.650	ppbv	100
61) Styrene	12.889	104	1481910	12.484	ppbv	100
62) Isopropylbenzene	14.021	105	4558228	10.262	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.040	83	2147383	10.150	ppbv	100
64) n-propylbenzene	14.912	120	1241910	10.681	ppbv	100
65) tert-Butylbenzene	16.082	119	4096195	10.261	ppbv	100
66) Benzyl Chloride	16.320	91	355379	11.572	ppbv	98
67) sec-Butylbenzene	16.629	105	5794246	10.298	ppbv	100
69) p-Isopropyltoluene	16.989	119	4835968	10.631	ppbv	100
70) n-Butylbenzene	17.879	91	4962037	10.661	ppbv	100
71) 2-Chlorotoluene	14.793	91	3445507	10.731	ppbv	100
72) 4-Ethyltoluene	15.185	105	3711135	11.099	ppbv	99
73) 1,3,5-Trimethylbenzene	15.343	105	3178195	10.832	ppbv	98
74) 1,2,4-Trimethylbenzene	16.101	105	3520719	10.330	ppbv	98
75) 1,3-Dichlorobenzene	16.326	146	2160341	10.235	ppbv	100
76) 1,4-Dichlorobenzene	16.468	146	2076558	10.196	ppbv	99
77) 1,2-Dichlorobenzene	17.137	146	2104681	10.065	ppbv	100
78) Hexachloro-1,3-Butadiene	22.622	225	1379912	8.344	ppbv	99
79) Naphthalene	21.374	128	2624137	12.474	ppbv	99
80) Naphthalene,2-methyl-	24.371	142	350949	7.653	ppbv	96
81) 1,2,4-Trichlorobenzene	21.130	180	1353417	10.230	ppbv	100

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

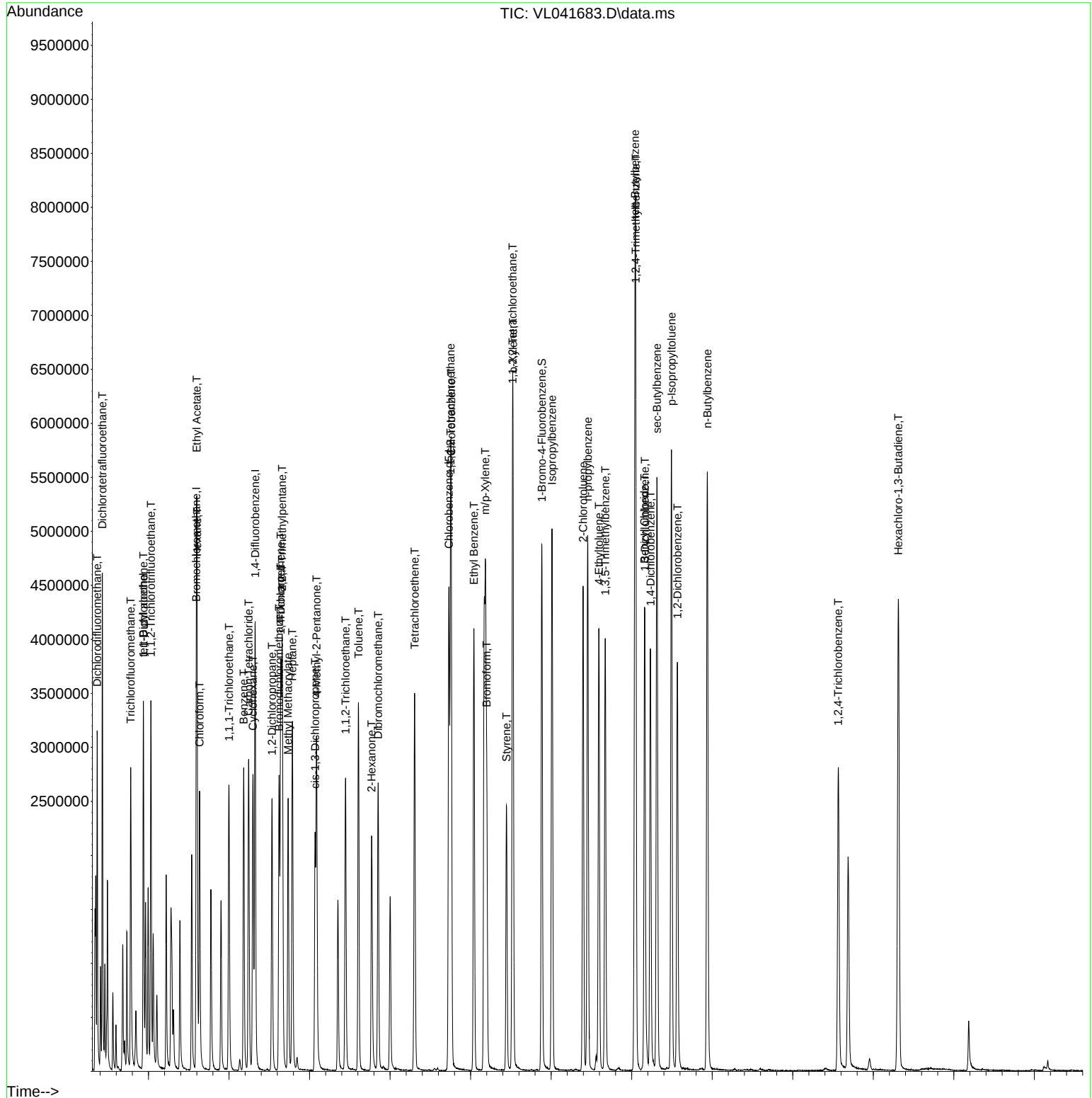
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110724\
Data File : VL041683.D
Acq On : 7 Nov 2024 18:24
Operator : SY/MD
Sample : VL1107ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1107ABS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 11/09/2024
Supervised By :Semsettin Yesilyurt 11/09/2024

Quant Time: Nov 08 03:51:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Nov 08 01:01:00 2024
Response via : Initial Calibration





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

Manual Integration Report

Sequence:

vl110724

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL110724

Review By	Review On		
Supervise By	Supervise On		
SubDirectory	VL110724	HP Acquire Method	AIR-TO15
		HP Processing Method	VL110724AIR.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041672.D	7 Nov 2024 8:58	SY/MD	Ok
2	VSTDICC0.5	VL041673.D	7 Nov 2024 9:36	SY/MD	Not Ok
3	VSTDICCC010	VL041674.D	7 Nov 2024 10:15	SY/MD	Ok,NR
4	VSTDICC002	VL041675.D	7 Nov 2024 10:55	SY/MD	Ok,NR
5	VSTDICC001	VL041676.D	7 Nov 2024 11:34	SY/MD	Ok,NR
6	VSTDICC0.5	VL041677.D	7 Nov 2024 12:13	SY/MD	Ok,NR
7	VSTDICC0.1	VL041678.D	7 Nov 2024 12:52	SY/MD	Ok,NR
8	VSTDICC0.03	VL041679.D	7 Nov 2024 13:31	SY/MD	Ok,NR
9	VSTDICC015	VL041680.D	7 Nov 2024 14:12	SY/MD	Ok,NR
10	VSTDICV010	VL041681.D	7 Nov 2024 14:51	SY/MD	Ok,NR
11	VL1107ABL01	VL041682.D	7 Nov 2024 17:44	SY/MD	Ok
12	VL1107ABS01	VL041683.D	7 Nov 2024 18:24	SY/MD	Ok,NR
13	VIBLK	VL041684.D	7 Nov 2024 19:04	SY/MD	Ok
14	P4696-02	VL041685.D	7 Nov 2024 19:44	SY/MD	Ok,NR
15	P4696-02DL	VL041686.D	7 Nov 2024 20:24	SY/MD	Not Ok
16	VIBLK	VL041687.D	7 Nov 2024 21:03	SY/MD	Ok
17	P4696-01	VL041688.D	7 Nov 2024 21:44	SY/MD	Ok,NR
18	P4696-01DUP	VL041689.D	7 Nov 2024 22:24	SY/MD	Ok,NR
19	P4696-01DL	VL041690.D	7 Nov 2024 23:03	SY/MD	Not Ok
20	QC102124 CAN 10311	VL041691.D	7 Nov 2024 23:42	SY/MD	Ok
21	CAN 10268	VL041692.D	8 Nov 2024 00:21	SY/MD	Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL110724

Review By	Review On				
Supervise By	Supervise On				
SubDirectory	VL110724	HP Acquire Method	AIR-TO15	HP Processing Method	VL110724AIR.M
STD. NAME	STD REF.#				
Tune/Reschk Initial Calibration Stds					
CCC					
Internal Standard/PEM					
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	CAN 10297	VL041693.D	8 Nov 2024 1:00	SY/MD	Ok
23	CAN 10154	VL041694.D	8 Nov 2024 1:39	SY/MD	Ok
24	VSTDCCC010	VL041695.D	8 Nov 2024 2:18	SY/MD	Ok,NR

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL110724

Review By	Review On
Supervise By	Supervise On
SubDirectory VL110724	HP Acquire Method AIR-TO15 HP Processing Method VL110724AIR.M
STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041672.D	7 Nov 2024 8:58		SY/MD	Ok
2	VSTDIC0.5	VSTDIC0.5	VL041673.D	7 Nov 2024 9:36	Spiked Low	SY/MD	Not Ok
3	VSTDICCC010	VSTDICCC010	VL041674.D	7 Nov 2024 10:15		SY/MD	Ok,NR
4	VSTDIC002	VSTDIC002	VL041675.D	7 Nov 2024 10:55		SY/MD	Ok,NR
5	VSTDIC001	VSTDIC001	VL041676.D	7 Nov 2024 11:34		SY/MD	Ok,NR
6	VSTDIC0.5	VSTDIC0.5	VL041677.D	7 Nov 2024 12:13		SY/MD	Ok,NR
7	VSTDIC0.1	VSTDIC0.1	VL041678.D	7 Nov 2024 12:52		SY/MD	Ok,NR
8	VSTDIC0.03	VSTDIC0.03	VL041679.D	7 Nov 2024 13:31		SY/MD	Ok,NR
9	VSTDIC015	VSTDIC015	VL041680.D	7 Nov 2024 14:12		SY/MD	Ok,NR
10	VSTDICV010	ICVVL110724	VL041681.D	7 Nov 2024 14:51		SY/MD	Ok,NR
11	VL1107ABL01	VL1107ABL01	VL041682.D	7 Nov 2024 17:44		SY/MD	Ok
12	VL1107ABS01	VL1107ABS01	VL041683.D	7 Nov 2024 18:24		SY/MD	Ok,NR
13	VIBLK	VIBLK	VL041684.D	7 Nov 2024 19:04		SY/MD	Ok
14	P4696-02	SV1	VL041685.D	7 Nov 2024 19:44		SY/MD	Ok,NR
15	P4696-02DL	SV1DL	VL041686.D	7 Nov 2024 20:24	Not Required	SY/MD	Not Ok
16	VIBLK	VIBLK	VL041687.D	7 Nov 2024 21:03		SY/MD	Ok
17	P4696-01	IA1	VL041688.D	7 Nov 2024 21:44		SY/MD	Ok,NR
18	P4696-01DUP	IA1DUP	VL041689.D	7 Nov 2024 22:24	DUP	SY/MD	Ok,NR

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL110724

Review By		Review On						
Supervise By		Supervise On						
SubDirectory		VL110724	HP Acquire Method		AIR-TO15	HP Processing Method		VL110724AIR.M
STD. NAME	STD REF.#							
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard								

19	P4696-01DL	IA1DL	VL041690.D	7 Nov 2024 23:03	Not Required	SY/MD	Not Ok
20	QC102124 CAN 10311	QC102124 CAN 10311	VL041691.D	7 Nov 2024 23:42		SY/MD	Ok
21	CAN 10268	CAN 10268	VL041692.D	8 Nov 2024 00:21		SY/MD	Ok
22	CAN 10297	CAN 10297	VL041693.D	8 Nov 2024 1:00		SY/MD	Ok
23	CAN 10154	CAN 10154	VL041694.D	8 Nov 2024 1:39		SY/MD	Ok
24	VSTDCCC010	VSTDCCC010EC	VL041695.D	8 Nov 2024 2:18		SY/MD	Ok,NR

M : Manual Integration



CHEMTECH Project No. :

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

Client Contact Information						Bottle Order ID : B2410066				Courier : F Galdun				COCs 12 of 22																			
Client ID : GFEL01						Project ID :				179-11 Metropolitan Ave New Canaan NY				Sampler Name(s) : FRANK GALDUN																			
Customer Name : GFE LLC						Project Manager : FRANK GALDUN																											
Address : 58 Nokomis Ave						Phone Number : 646-542-3465																											
						Fax Number : 973-334-1692																											
City : Lake Hiawatha						Site Details: 394 E. TREMONT AVE BRAX NJ																											
State : NJ						Analysis Turnaround Time 5 DAY																											
Zip Code : 07034						Standard : 10-business days OR																											
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		1/3/20		8:32		0:52		20.5		0		68		68		-30		-2.2		10185		10283		6 L		50		VL041543.D		1		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 PID Readings:																																	
Sampling site (State):																																	
Quick Connector required : NO																																	
Canisters Shipped by: SGA																																	
Samples Relinquished by: SGA																																	
Relinquished by: SGA																																	
Date/Time: 1/4/2019 Received by: SGA																																	
Date/Time: 1/4/2019 Received by: SGA																																	
Date/Time: 1/4/2019 Received by: SGA																																	
B2410066 - 1																																	

REQUESTED ANALYTE LIST:

PCE ☒

TCE ☒

cis-1,2-DCE ☒

1,1,1-TCA ☒

1,2-DCE ☒

1,1-DCE ☒

Vinyl chloride ☒

Benzene ☒

Toluene ☒

Ethylbenzene ☒

Naphthalene ☒

Cyclohexane ☒

2,2,4-Trimethylpentane ☒

1,2,4-Trimethylbenzene ☒

1,3,5-Trimethylbenzene ☒

o-xylene ☒

m,p-xylene

Heptane ☒

Hexane ☒

Client Contact Information		Bottle Order ID : B2410066		Courier : F. Galdun		1 of 2 COCs									
Client ID : GFEL01		Project ID : 1594 E Tremont Ave New York Gardens NY		Sampler Name(s) : Frank Galdun		Analysis									
Customer Name : GFE LLC		Project Manager : FRANK GALDUN		AIR ANALYSIS		Matrix									
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY											
City : Lake Hiawatha		Fax Number : 973-334-1692		Batch Certified											
State : NJ		Site Details: 3594 E TREMONT AVE Brooklyn NY													
Zip Code : 07034		Analysis Turnaround Time 5 DAY													
Country : USA		Standard : 20 Business days		Data Package Type : RESULTS ONLY											
		Rush (Specify) : 5 Days		EDD Type : RDF											
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
TA1	10/24/24	8:33	10:33	30	4.5	68	68	-30	-5.9	10226	10295	50	VL041543.D	1	1
GC/MS Analyst Signature (TO-15) [Signature] Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE VOCs ON ATTACHED LIST Please follow the instructions on the back of this COC.															
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium Low Low PID Readings: 0.0															
Quick Connector required : NO															
Canisters Shipped by: [Signature]		Date/Time: 10/24/24		Canisters Received by: [Signature]		Date/Time: 10/24/24		Received by:		Date/Time: 10/24/24		Date/Time: 10/24/24		Date/Time: 10/24/24	
Samples Relinquished by: [Signature]		Date/Time: 10/24/24		Relinquished by:		Date/Time: 10/24/24		Received by:		Date/Time: 10/24/24		Date/Time: 10/24/24		Date/Time: 10/24/24	
Relinquished by:		Date/Time:		Received by:		Date/Time:		Received by:		Date/Time:		Received by:		Date/Time:	

REQUESTED ANALYTE LIST:

PCE
TCE
cis-1,2-DCE
1,1,1-TCA
1,2-DCE
1,1-DCE
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Naphthalene
Cyclohexane
2,2,4-Trimethylpentane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
o-xylene
m,p-xylene
Heptane
Hexane

Instructions: Use 1 form for each 20 samples of aliquot

Sample No.	Alliquot/Extract No.	Sample No.	Alliquot/Extract No.
P4696-01	IA1		
P4696-02	SV1		

[illegible]

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

METHOD: TO-15
 Analyst Signature: [Signature]
 Supervisor Signature: [Signature]
 Pressure Gauge ID: #2-55971

METHOD: TO-15

Supervisor Signature: _____

Pressure Gauge ID: ~~A7-55971~~

[illegible]

Process Report

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

Order ID : P4696

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
11/04/2024	B2410066	P4696-01	-5.9	10295	6 L	10226		C2408003	VL041543.D Seq : V1081924 TUNE : VL041539.D ICAL : VL041404.D CCAL : VL041540.D MB : VL041541.D
11/04/2024	B2410066	P4696-02	-2.2	10283	6 L	10185		C2408003	VL041543.D Seq : V1081924 TUNE : VL041539.D ICAL : VL041404.D CCAL : VL041540.D MB : VL041541.D

CHEMTECH

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

Client Sample ID #:

Client Name:

Project Name:

Date:

Analysis:

Comments:

Storage Location: L21

Sample: P4696-01

Cust #: IA1

CHEMTECH'S SA

Date Received:

sal:

CHEMTECH

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

Client Sample ID #:

Client Name:

Project Name:

Date:

Analysis:

Comments:

Storage Location: L21

Sample: P4696-02

Cust #: SV1

CHEMTECH

Date Received:

Disposal: