

Cover Page

Order ID : Q1235

Project ID : NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Client : RU2 Engineering, LLC

Lab Sample Number

Q1235-01
Q1235-02
Q1235-03
Q1235-04
Q1235-05
Q1235-06
Q1235-07
Q1235-08

Client Sample Number

JPP-51.2-012925
JPP-51.2-012925
JPP-51.2-012925
JPP-51.2-012925
JPP-16.1-012925
JPP-16.1-012925
JPP-16.1-012925
JPP-16.1-012925

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 2/5/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1235

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 02/05/2025

LAB CHRONICLE

OrderID:	Q1235	OrderDate:	1/30/2025 12:15:00 PM
Client:	RU2 Engineering, LLC	Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	Location:	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1235-02	JPP-51.2-012925	TCLP	TCLP VOA	8260D	01/29/25		02/03/25	01/30/25
Q1235-06	JPP-16.1-012925	TCLP	TCLP VOA	8260D	01/29/25		02/03/25	01/30/25



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

Hit Summary Sheet
SW-846

SDG No.: Q1235

Client: RU2 Engineering, LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	JPP-16.1-012925							
Q1235-06	JPP-16.1-012925	TCLP	2-Butanone	5.40	J	1.30	25.0	ug/L
			Total Voc :	5.40				
			Total Concentration:	5.40				



QC SUMMARY

Surrogate Summary

SDG No.: Q1235

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1235-02	JPP-51.2-012925	1,2-Dichloroethane-d4	50	46.4	93	74	125
		Dibromofluoromethane	50	47.7	95	75	124
		Toluene-d8	50	52.1	104	86	113
		4-Bromofluorobenzene	50	49.5	99	77	121
Q1235-06	JPP-16.1-012925	1,2-Dichloroethane-d4	50	46.9	94	74	125
		Dibromofluoromethane	50	48.5	97	75	124
		Toluene-d8	50	52.9	106	86	113
		4-Bromofluorobenzene	50	48.5	97	77	121
VX0203WBL01	VX0203WBL01	1,2-Dichloroethane-d4	50	48.6	97	74	125
		Dibromofluoromethane	50	50.1	100	75	124
		Toluene-d8	50	55.2	110	86	113
		4-Bromofluorobenzene	50	52.9	106	77	121
VX0203WBS01	VX0203WBS01	1,2-Dichloroethane-d4	50	43.1	86	74	125
		Dibromofluoromethane	50	46.5	93	75	124
		Toluene-d8	50	50.2	100	86	113
		4-Bromofluorobenzene	50	47.5	95	77	121
VX0203WBSD0	VX0203WBSD01	1,2-Dichloroethane-d4	50	43.5	87	74	125
		Dibromofluoromethane	50	47.0	94	75	124
		Toluene-d8	50	50.2	100	86	113
		4-Bromofluorobenzene	50	47.6	95	77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1235

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VX044805.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0203WBS01	Vinyl chloride	20	20.2	ug/L	101			65	117	
	1,1-Dichloroethene	20	16.8	ug/L	84			74	110	
	2-Butanone	100	110	ug/L	110			65	122	
	Carbon Tetrachloride	20	17.6	ug/L	88			77	113	
	Chloroform	20	19.3	ug/L	97			79	113	
	Benzene	20	20.7	ug/L	104			82	109	
	1,2-Dichloroethane	20	18.0	ug/L	90			80	115	
	Trichloroethene	20	19.4	ug/L	97			77	113	
	Tetrachloroethene	20	18.9	ug/L	95			67	123	
	Chlorobenzene	20	19.9	ug/L	100			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1235

Client: RU2 Engineering, LLC

Analytical Method: SW8260D

Datafile : VX044806.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0203WBSD01	Vinyl chloride	20	19.2	ug/L	96	5		65	117	20
	1,1-Dichloroethene	20	20.4	ug/L	102	19		74	110	20
	2-Butanone	100	110	ug/L	110	0		65	122	20
	Carbon Tetrachloride	20	17.7	ug/L	89	1		77	113	20
	Chloroform	20	19.5	ug/L	98	1		79	113	20
	Benzene	20	20.8	ug/L	104	0		82	109	20
	1,2-Dichloroethane	20	18.3	ug/L	92	2		80	115	20
	Trichloroethene	20	20.0	ug/L	100	3		77	113	20
	Tetrachloroethene	20	18.7	ug/L	94	1		67	123	20
	Chlorobenzene	20	20.1	ug/L	101	1		82	109	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0203WBL01

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1235

SAS No.: Q1235 SDG NO.: Q1235

Lab File ID: VX044804.D

Lab Sample ID: VX0203WBL01

Date Analyzed: 02/03/2025

Time Analyzed: 10:44

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0203WBS01	VX0203WBS01	VX044805.D	02/03/2025
VX0203WBSD01	VX0203WBSD01	VX044806.D	02/03/2025
JPP-51.2-012925	Q1235-02	VX044820.D	02/03/2025
JPP-16.1-012925	Q1235-06	VX044821.D	02/03/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235
Lab File ID: VX044647.D BFB Injection Date: 01/15/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:30
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	67.1
175	5.0 - 9.0% of mass 174	4.9 (7.3) 1
176	95.0 - 101.0% of mass 174	64.4 (96) 1
177	5.0 - 9.0% of mass 176	4.3 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX044648.D	01/15/2025	10:31
VSTDIC005	VSTDIC005	VX044649.D	01/15/2025	11:17
VSTDIC020	VSTDIC020	VX044650.D	01/15/2025	11:40
VSTDIC050	VSTDIC050	VX044651.D	01/15/2025	12:02
VSTDIC100	VSTDIC100	VX044652.D	01/15/2025	13:14
VSTDIC150	VSTDIC150	VX044653.D	01/15/2025	13:37



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: RUTW01
Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235
Lab File ID: VX044801.D BFB Injection Date: 02/03/2025
Instrument ID: MSVOA_X BFB Injection Time: 08:12
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	51.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	77.6
175	5.0 - 9.0% of mass 174	5.9 (7.6) 1
176	95.0 - 101.0% of mass 174	74.5 (96.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX044802.D	02/03/2025	09:52
VX0203WBL01	VX0203WBL01	VX044804.D	02/03/2025	10:44
VX0203WBS01	VX0203WBS01	VX044805.D	02/03/2025	11:07
VX0203WBSD01	VX0203WBSD01	VX044806.D	02/03/2025	11:32
JPP-51.2-012925	Q1235-02	VX044820.D	02/03/2025	17:18
JPP-16.1-012925	Q1235-06	VX044821.D	02/03/2025	17:41

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RUTW01
 Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235
 Lab File ID: VX044802.D Date Analyzed: 02/03/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:52
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	162430	5.54	297715	6.75	252415	10.05
UPPER LIMIT	324860	6.038	595430	7.251	504830	10.549
LOWER LIMIT	81215	5.038	148858	6.251	126208	9.549
EPA SAMPLE NO.						
JPP-51.2-012925	120237	5.55	241866	6.76	217390	10.05
JPP-16.1-012925	115557	5.55	234072	6.76	202229	10.05
VX0203WBL01	124993	5.54	257688	6.76	232979	10.05
VX0203WBS01	151779	5.54	276067	6.76	242310	10.05
VX0203WBSD01	145340	5.54	265785	6.76	233316	10.05

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

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: RUTW01
 Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG NO.: Q1235
 Lab File ID: VX044802.D Date Analyzed: 02/03/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:52
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	101849	12.018				
UPPER LIMIT	203698	12.518				
LOWER LIMIT	50924.5	11.518				
EPA SAMPLE NO.						
JPP-51.2-012925	94373	12.02				
JPP-16.1-012925	85260	12.02				
VX0203WBL01	100905	12.02				
VX0203WBS01	107943	12.02				
VX0203WBSD01	103778	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 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:	RU2 Engineering, LLC			Date Collected:	01/29/25	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR			Date Received:	01/30/25	
Client Sample ID:	JPP-51.2-012925			SDG No.:	Q1235	
Lab Sample ID:	Q1235-02			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044820.D	1		02/03/25 17:18	VX020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	5.00	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	5.00	U	0.26	5.00	ug/L
78-93-3	2-Butanone	25.0	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	U	0.25	5.00	ug/L
67-66-3	Chloroform	5.00	U	0.26	5.00	ug/L
71-43-2	Benzene	5.00	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	5.00	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	5.00	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	5.00	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	5.00	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.4		74 - 125	93%	SPK: 50
1868-53-7	Dibromofluoromethane	47.7		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	52.1		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	120000	5.55			
540-36-3	1,4-Difluorobenzene	242000	6.757			
3114-55-4	Chlorobenzene-d5	217000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	94400	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044820.D
 Acq On : 03 Feb 2025 17:18
 Operator : JC/MD
 Sample : Q1235-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 JPP-51.2-012925

Quant Time: Feb 04 02:11:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

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

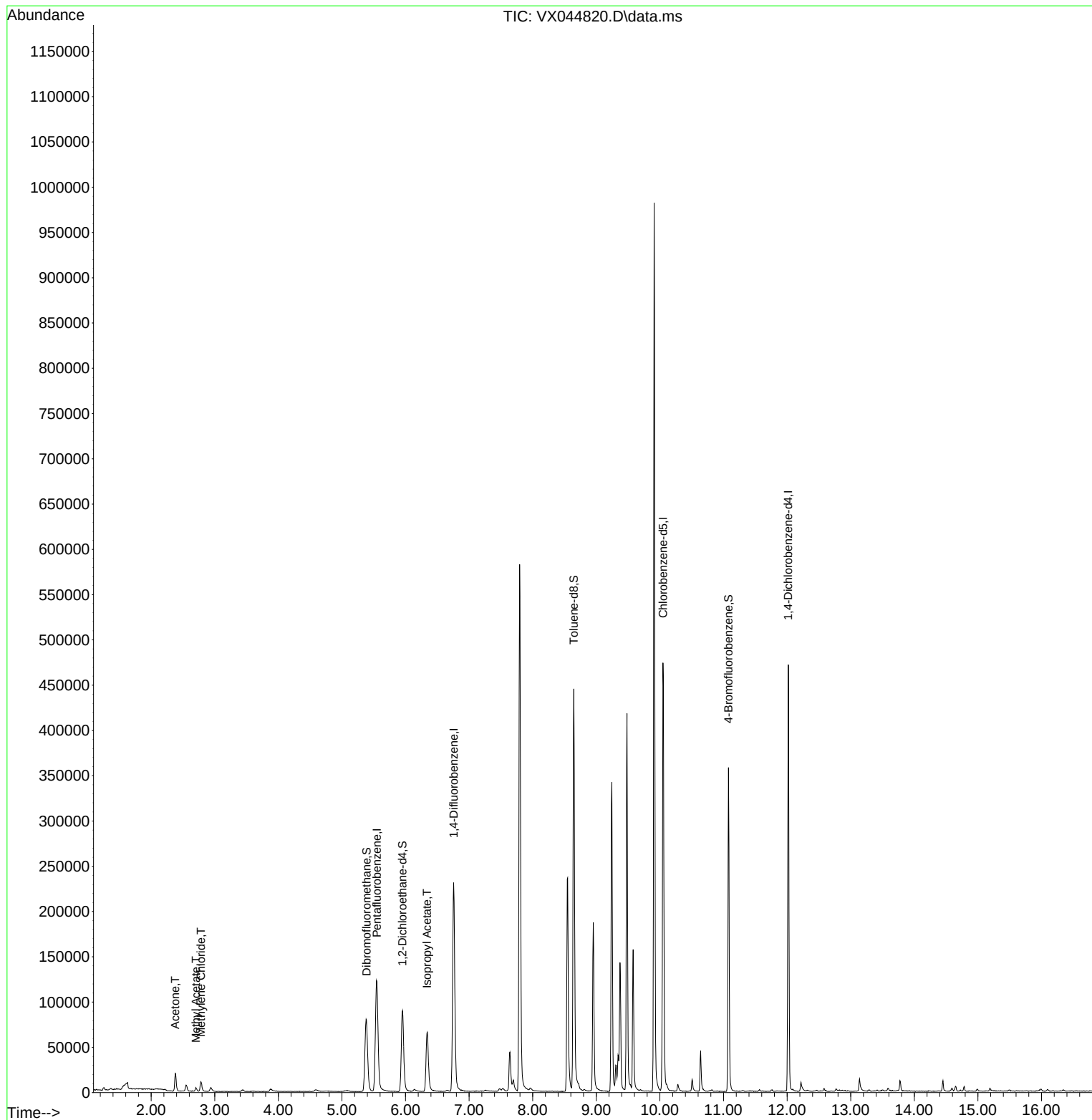
Internal Standards						
1) Pentafluorobenzene	5.550	168	120237	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	241866	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	217390	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	94373	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	84178	46.382	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.760%
35) Dibromofluoromethane	5.385	113	73303	47.707	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.420%
50) Toluene-d8	8.647	98	278984	52.073	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.140%
62) 4-Bromofluorobenzene	11.079	95	98821	49.478	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.960%
Target Compounds						
					Qvalue	
16) Acetone	2.380	43	20758	28.909	ug/l	90
18) Methyl Acetate	2.703	43	4712	2.127	ug/l	97
20) Methylene Chloride	2.782	84	5437	3.252	ug/l	95
43) Isopropyl Acetate	6.336	43	97710	23.319	ug/l	99

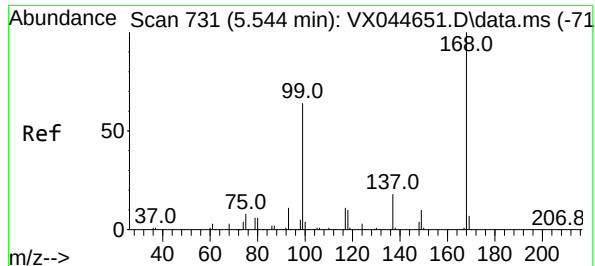
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
Data File : VX044820.D
Acq On : 03 Feb 2025 17:18
Operator : JC/MD
Sample : Q1235-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
JPP-51.2-012925

Quant Time: Feb 04 02:11:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

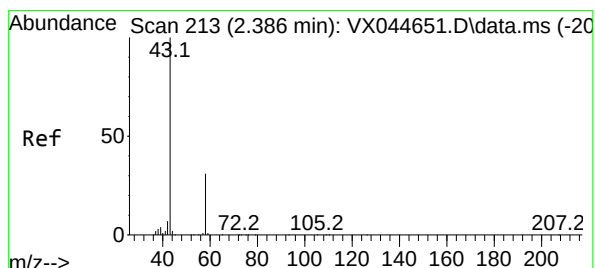
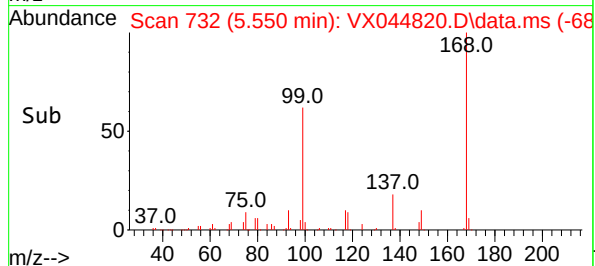
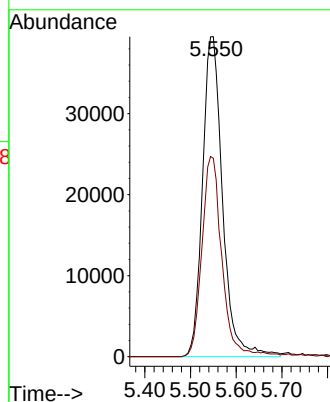
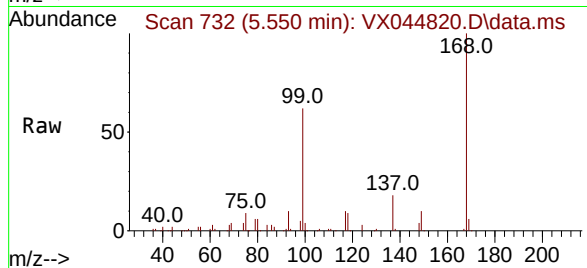




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX044820.D
Acq: 03 Feb 2025 17:18

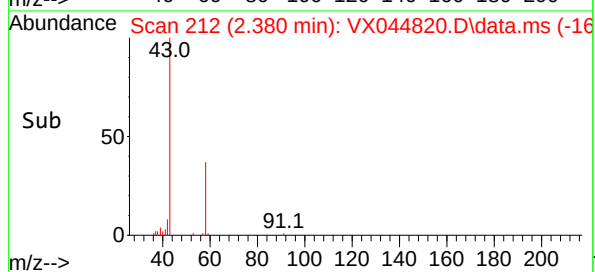
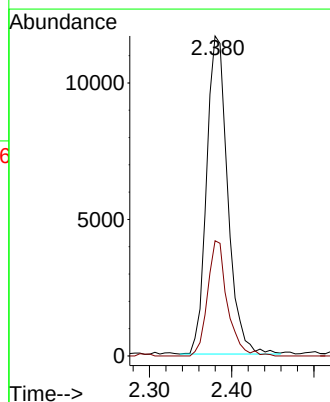
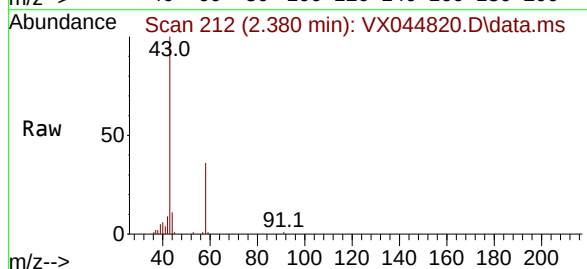
Instrument :
MSVOA_X
ClientSampleId :
JPP-51.2-012925

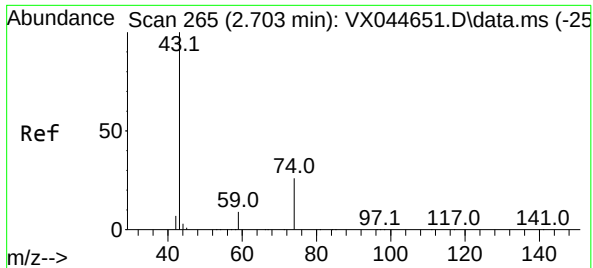
Tgt Ion:168 Resp: 120237
Ion Ratio Lower Upper
168 100
99 62.0 51.1 76.7



#16
Acetone
Concen: 28.909 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044820.D
Acq: 03 Feb 2025 17:18

Tgt Ion: 43 Resp: 20758
Ion Ratio Lower Upper
43 100
58 36.2 24.6 37.0





#18

Methyl Acetate

Concen: 2.127 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044820.D

Acq: 03 Feb 2025 17:18

Instrument :

MSVOA_X

ClientSampleId :

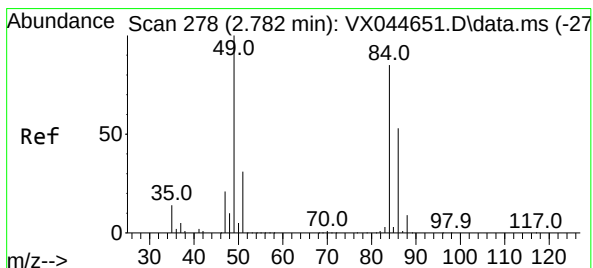
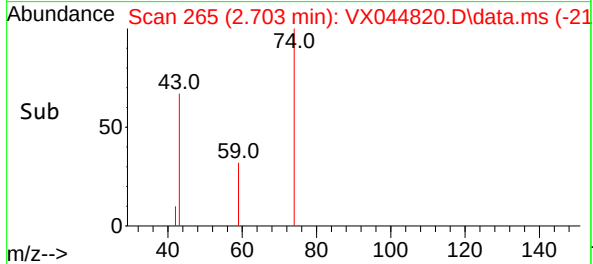
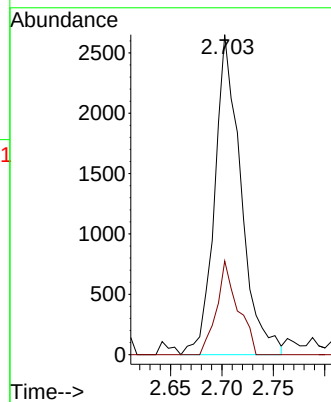
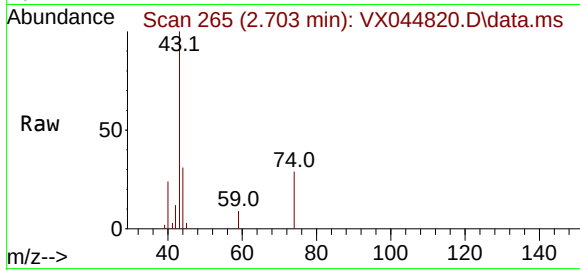
JPP-51.2-012925

Tgt Ion: 43 Resp: 4712

Ion Ratio Lower Upper

43 100

74 23.5 19.8 29.8



#20

Methylene Chloride

Concen: 3.252 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044820.D

Acq: 03 Feb 2025 17:18

Tgt Ion: 84 Resp: 5437

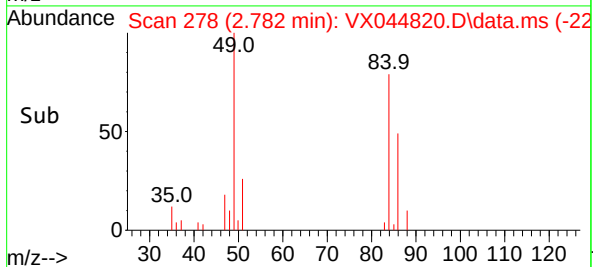
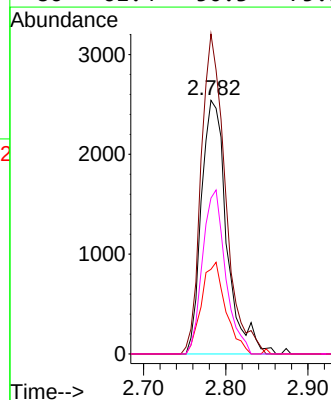
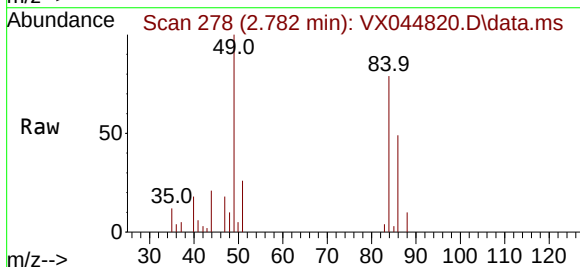
Ion Ratio Lower Upper

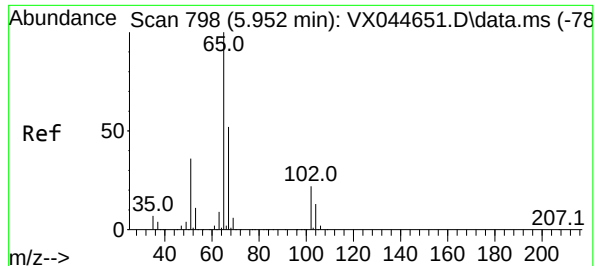
84 100

49 126.2 94.2 141.4

51 33.4 28.8 43.2

86 61.4 50.3 75.5





#33

1,2-Dichloroethane-d4

Concen: 46.382 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX044820.D

Acq: 03 Feb 2025 17:18

Instrument :

MSVOA_X

ClientSampleId :

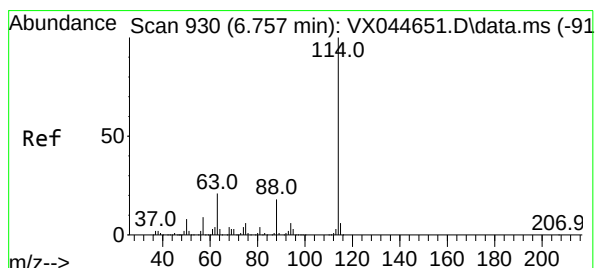
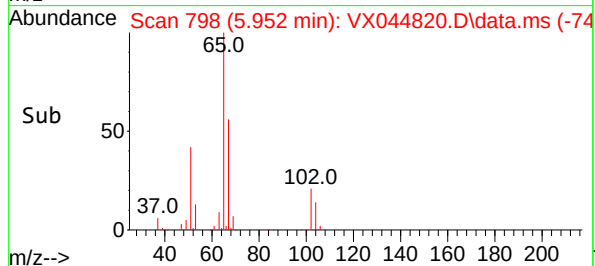
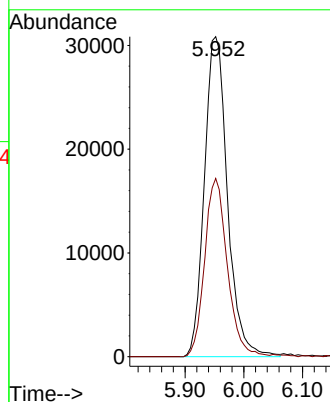
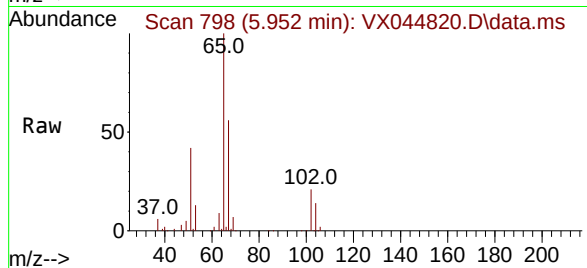
JPP-51.2-012925

Tgt Ion: 65 Resp: 84178

Ion Ratio Lower Upper

65 100

67 54.6 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044820.D

Acq: 03 Feb 2025 17:18

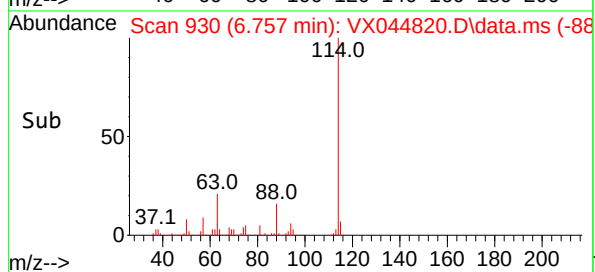
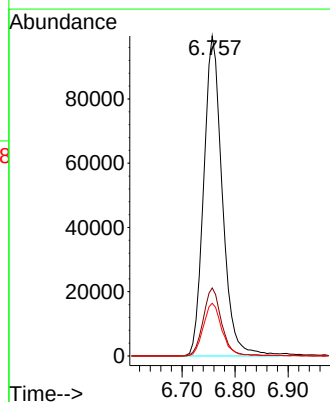
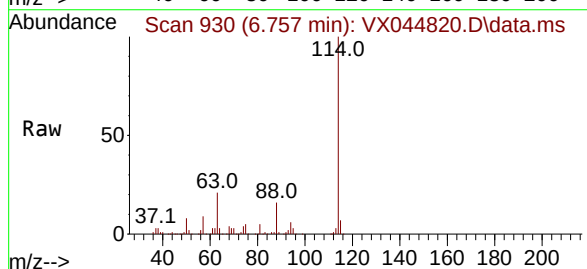
Tgt Ion: 114 Resp: 241866

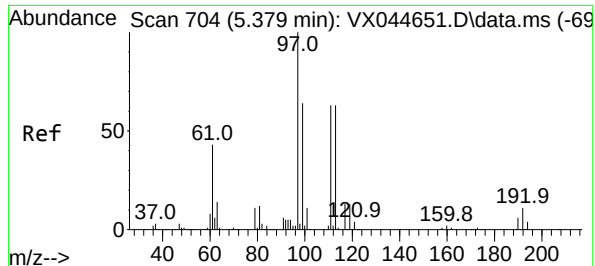
Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.0

88 16.4 0.0 35.4





#35

Dibromofluoromethane

Concen: 47.707 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX044820.D

Acq: 03 Feb 2025 17:18

Instrument :

MSVOA_X

ClientSampleId :

JPP-51.2-012925

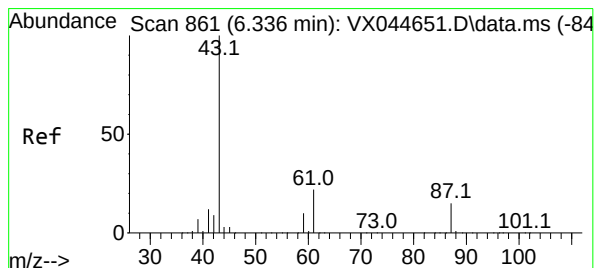
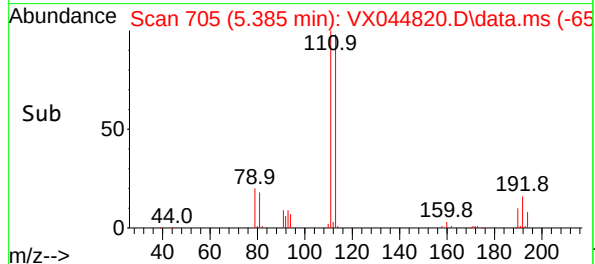
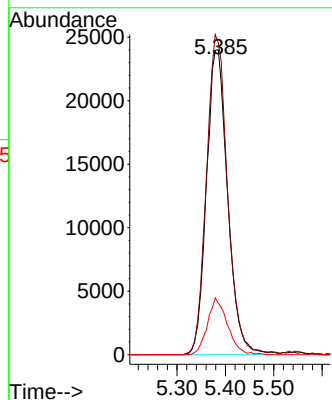
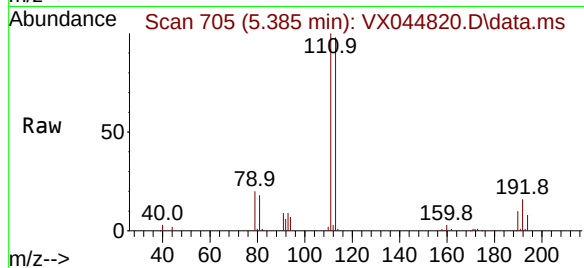
Tgt Ion:113 Resp: 73303

Ion Ratio Lower Upper

113 100

111 103.8 81.6 122.4

192 17.6 14.4 21.6



#43

Isopropyl Acetate

Concen: 23.319 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX044820.D

Acq: 03 Feb 2025 17:18

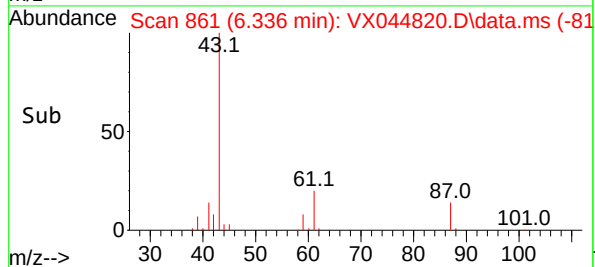
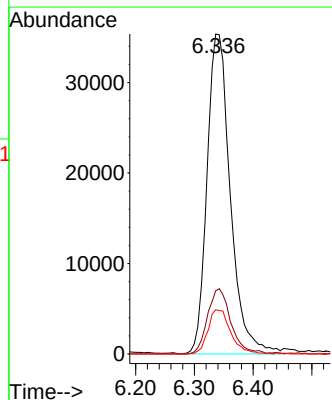
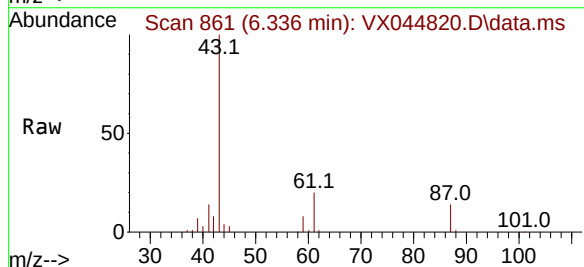
Tgt Ion: 43 Resp: 97710

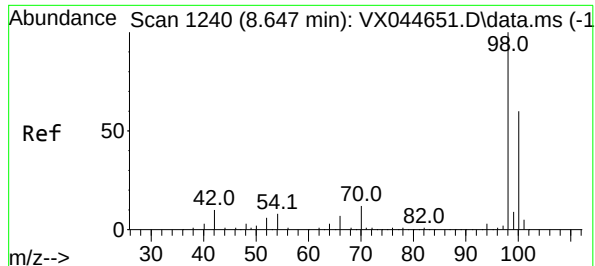
Ion Ratio Lower Upper

43 100

61 20.3 16.6 24.8

87 13.4 11.0 16.6





#50

Toluene-d8

Concen: 52.073 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044820.D

Acq: 03 Feb 2025 17:18

Instrument :

MSVOA_X

ClientSampleId :

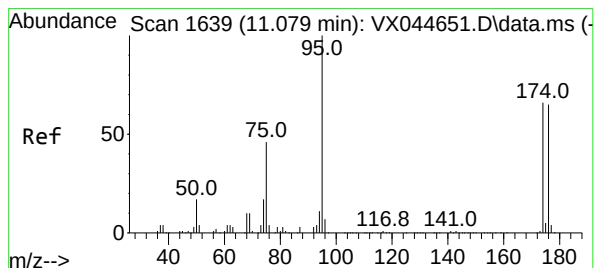
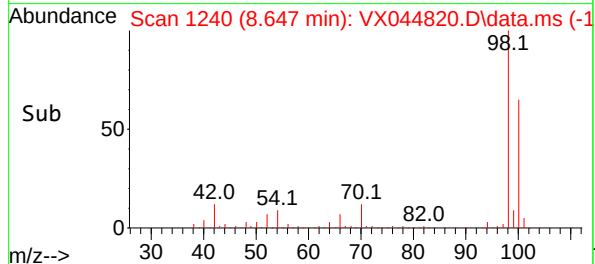
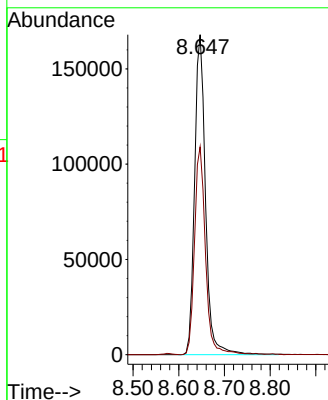
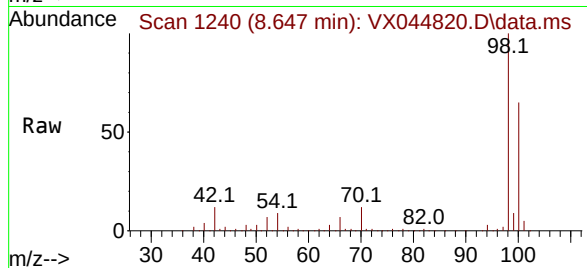
JPP-51.2-012925

Tgt Ion: 98 Resp: 278984

Ion Ratio Lower Upper

98 100

100 65.4 53.2 79.8



#62

4-Bromofluorobenzene

Concen: 49.478 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044820.D

Acq: 03 Feb 2025 17:18

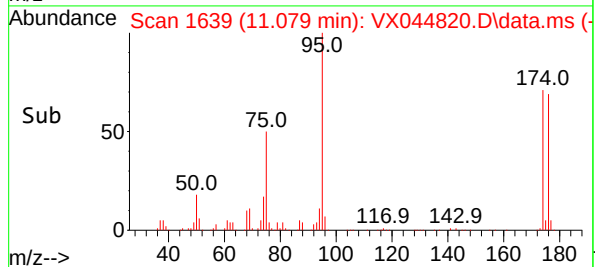
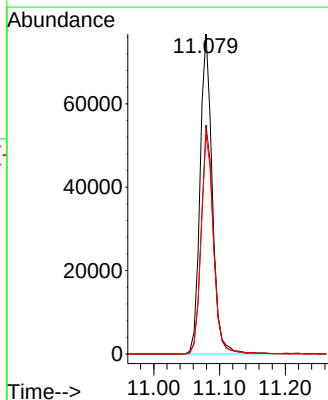
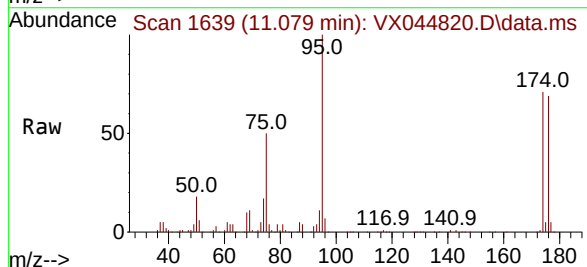
Tgt Ion: 95 Resp: 98821

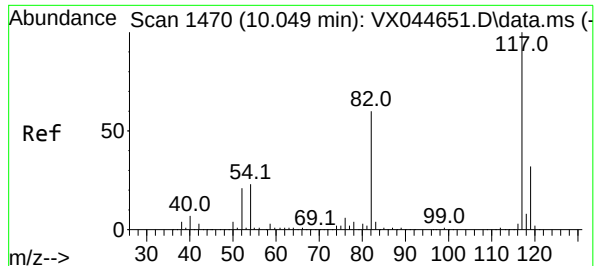
Ion Ratio Lower Upper

95 100

174 71.4 0.0 133.0

176 69.8 0.0 129.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044820.D

Acq: 03 Feb 2025 17:18

Instrument :

MSVOA_X

ClientSampleId :

JPP-51.2-012925

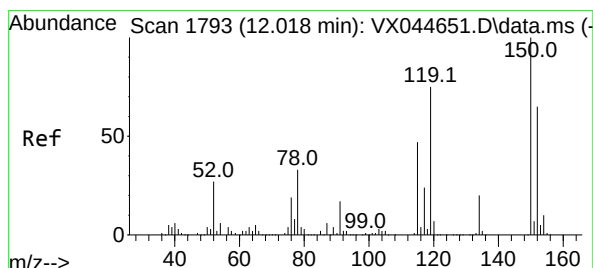
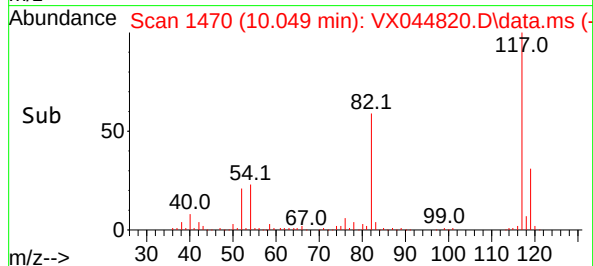
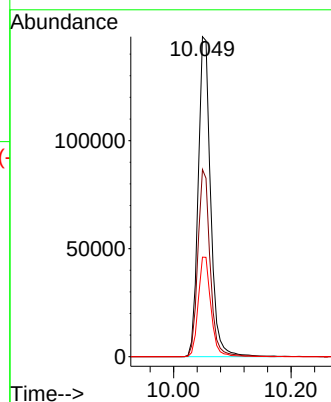
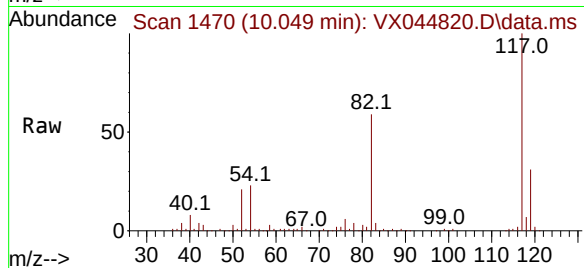
Tgt Ion:117 Resp: 217390

Ion Ratio Lower Upper

117 100

82 58.5 47.6 71.4

119 31.1 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX044820.D

Acq: 03 Feb 2025 17:18

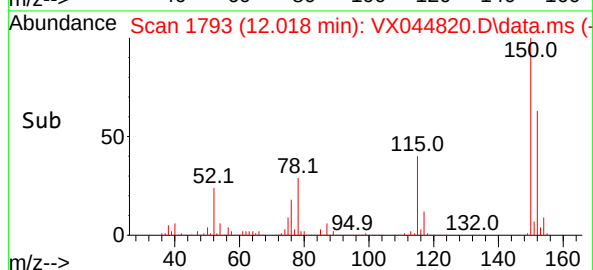
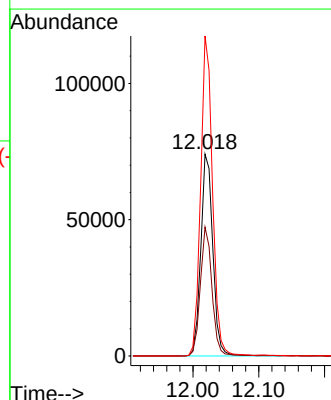
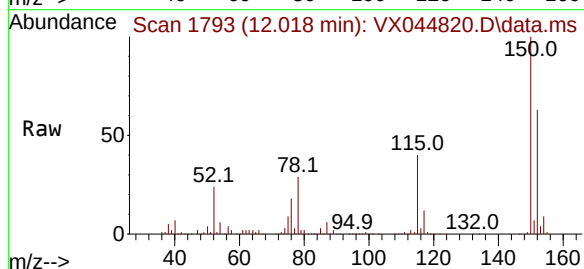
Tgt Ion:152 Resp: 94373

Ion Ratio Lower Upper

152 100

115 61.8 43.8 131.4

150 155.8 0.0 347.8



Report of Analysis

Client:	RU2 Engineering, LLC			Date Collected:	01/29/25	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR			Date Received:	01/30/25	
Client Sample ID:	JPP-16.1-012925			SDG No.:	Q1235	
Lab Sample ID:	Q1235-06			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044821.D	1		02/03/25 17:41	VX020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	5.00	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	5.00	U	0.26	5.00	ug/L
78-93-3	2-Butanone	5.40	J	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	U	0.25	5.00	ug/L
67-66-3	Chloroform	5.00	U	0.26	5.00	ug/L
71-43-2	Benzene	5.00	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	5.00	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	5.00	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	5.00	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	5.00	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.9		74 - 125	94%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	52.9		86 - 113	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		77 - 121	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	116000	5.55			
540-36-3	1,4-Difluorobenzene	234000	6.757			
3114-55-4	Chlorobenzene-d5	202000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	85300	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044821.D
 Acq On : 03 Feb 2025 17:41
 Operator : JC/MD
 Sample : Q1235-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 JPP-16.1-012925

Quant Time: Feb 04 02:12:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

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

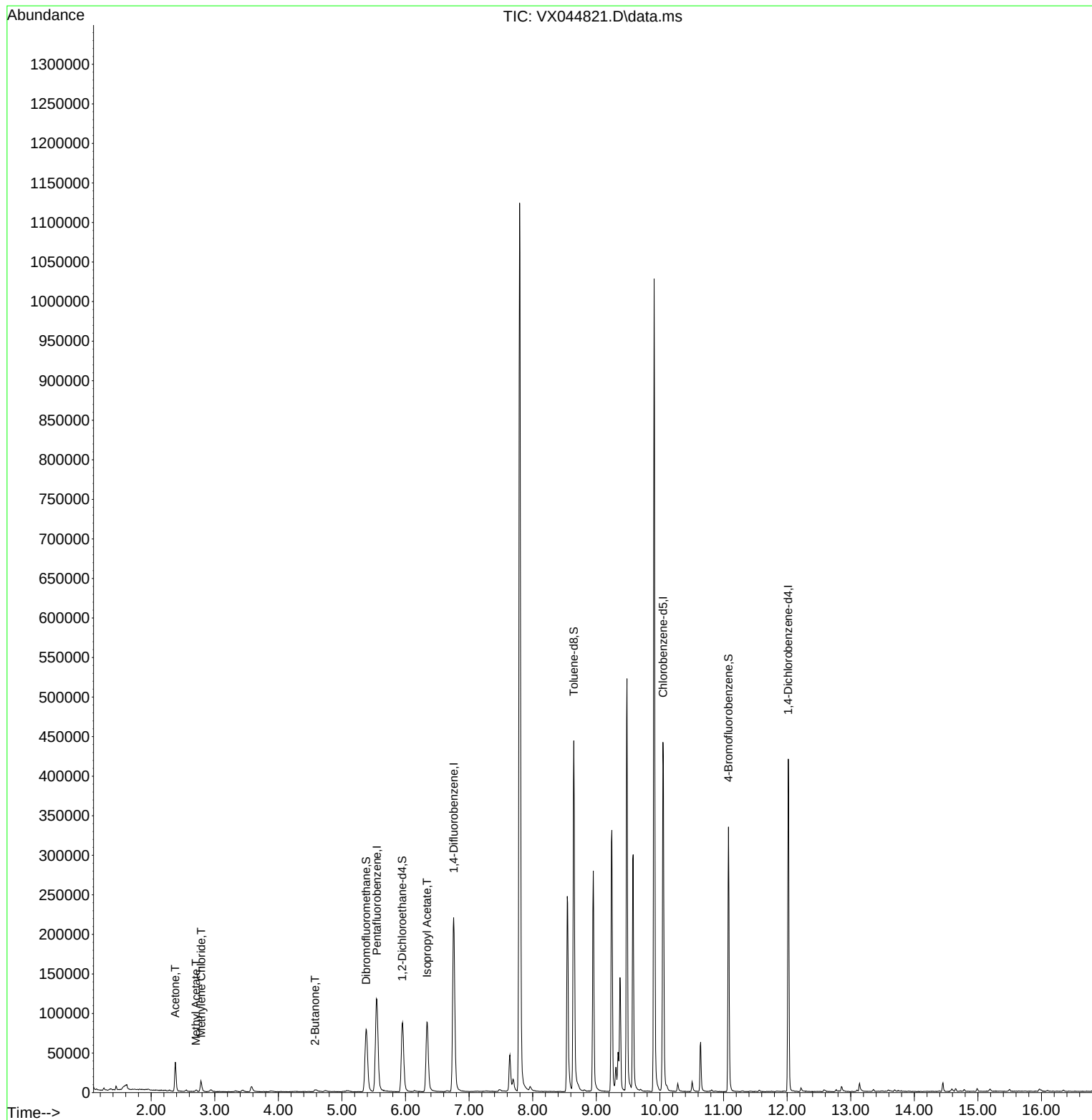
Internal Standards						
1) Pentafluorobenzene	5.550	168	115557	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	234072	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	202229	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	85260	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	81765	46.877	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	93.760%		
35) Dibromofluoromethane	5.379	113	72126	48.504	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.000%		
50) Toluene-d8	8.647	98	274439	52.930	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	105.860%		
62) 4-Bromofluorobenzene	11.079	95	93684	48.468	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.940%		
Target Compounds					Qvalue	
16) Acetone	2.380	43	36941	53.530	ug/l	97
18) Methyl Acetate	2.703	43	2646	1.243	ug/l #	88
20) Methylene Chloride	2.788	84	6002	3.735	ug/l	97
25) 2-Butanone	4.574	43	5522	5.382	ug/l #	88
43) Isopropyl Acetate	6.336	43	129840	32.018	ug/l	98

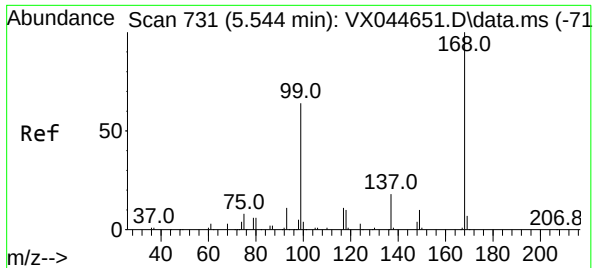
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
Data File : VX044821.D
Acq On : 03 Feb 2025 17:41
Operator : JC/MD
Sample : Q1235-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
JPP-16.1-012925

Quant Time: Feb 04 02:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

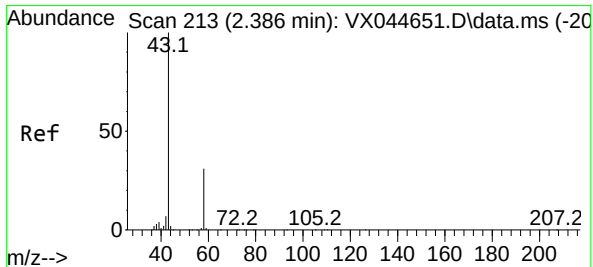
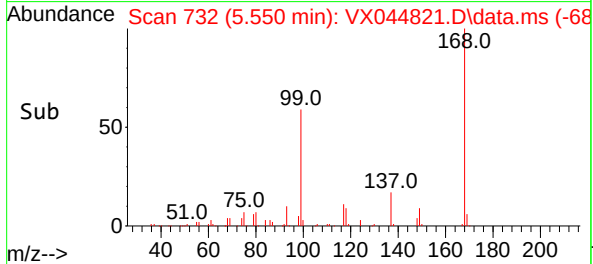
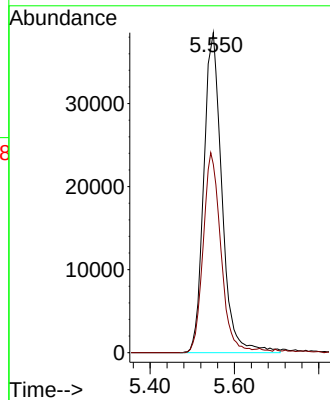
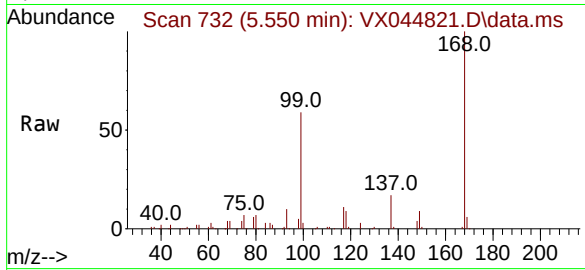




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX044821.D
Acq: 03 Feb 2025 17:41

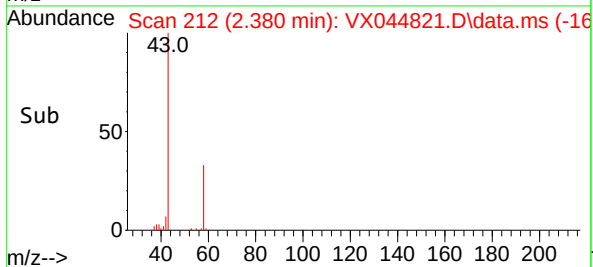
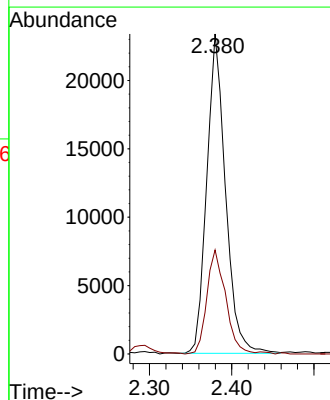
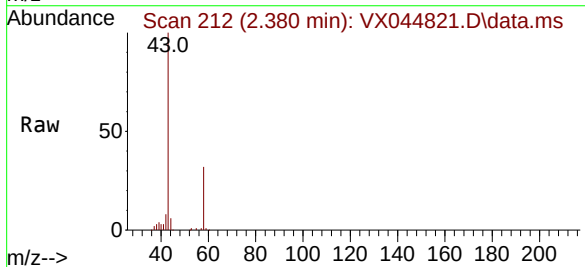
Instrument :
MSVOA_X
ClientSampleId :
JPP-16.1-012925

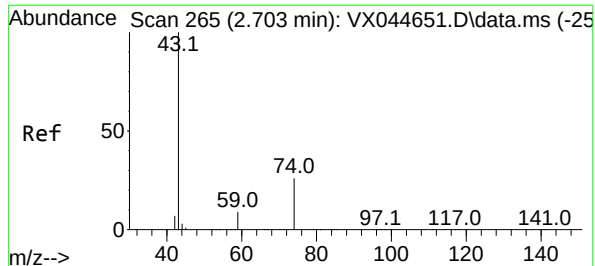
Tgt Ion:168 Resp: 115557
Ion Ratio Lower Upper
168 100
99 58.9 51.1 76.7



#16
Acetone
Concen: 53.530 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044821.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 43 Resp: 36941
Ion Ratio Lower Upper
43 100
58 32.3 24.6 37.0





#18

Methyl Acetate

Concen: 1.243 ug/l

RT: 2.703 min Scan# 2

Delta R.T. 0.000 min

Lab File: VX044821.D

Acq: 03 Feb 2025 17:41

Instrument :

MSVOA_X

ClientSampleId :

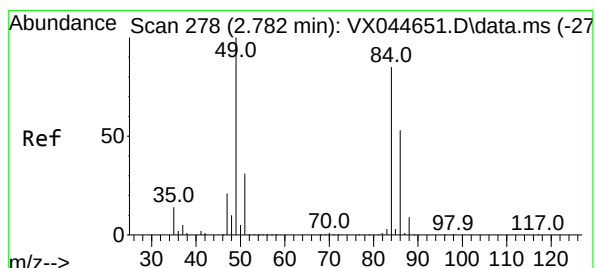
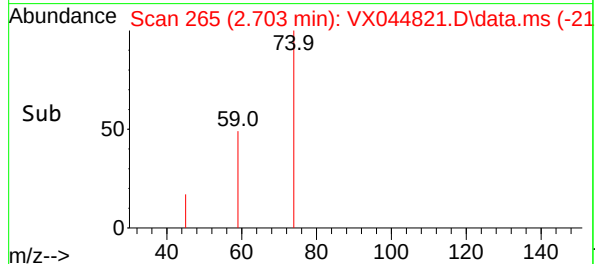
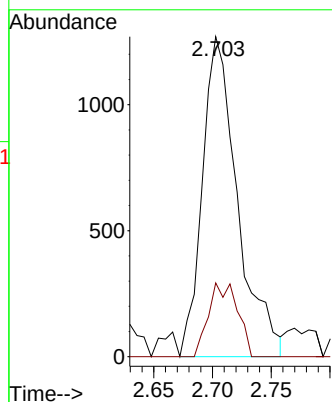
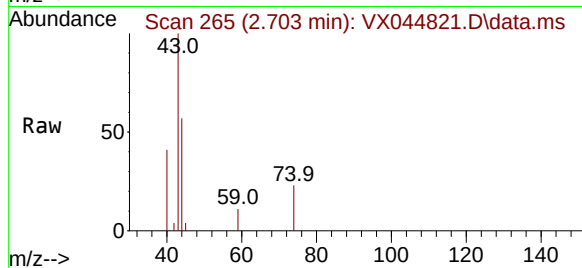
JPP-16.1-012925

Tgt Ion: 43 Resp: 2646

Ion Ratio Lower Upper

43 100

74 19.0 19.8 29.8#



#20

Methylene Chloride

Concen: 3.735 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.006 min

Lab File: VX044821.D

Acq: 03 Feb 2025 17:41

Tgt Ion: 84 Resp: 6002

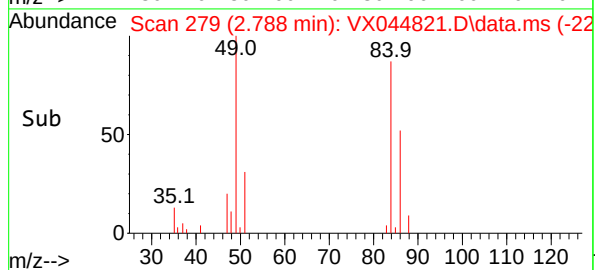
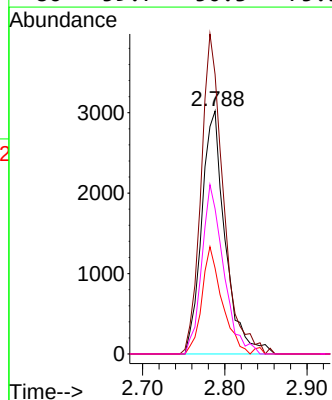
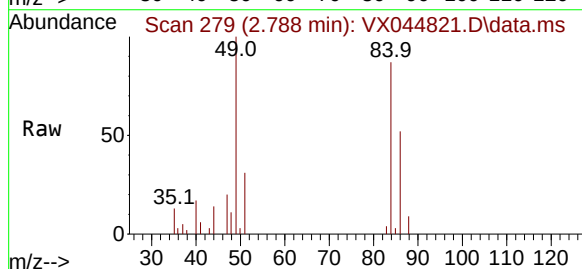
Ion Ratio Lower Upper

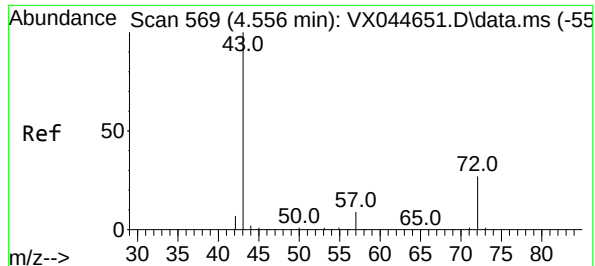
84 100

49 115.1 94.2 141.4

51 35.3 28.8 43.2

86 59.7 50.3 75.5





#25

2-Butanone

Concen: 5.382 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX044821.D

Acq: 03 Feb 2025 17:41

Instrument :

MSVOA_X

ClientSampleId :

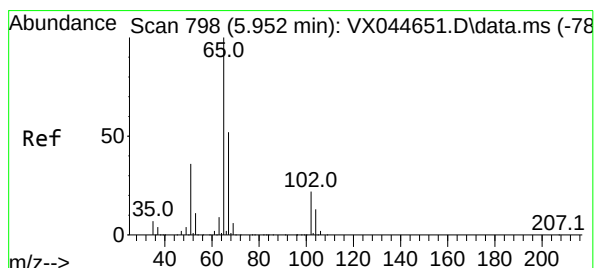
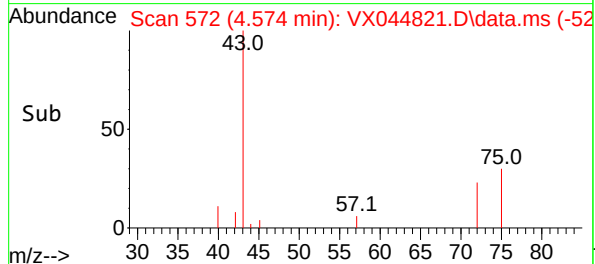
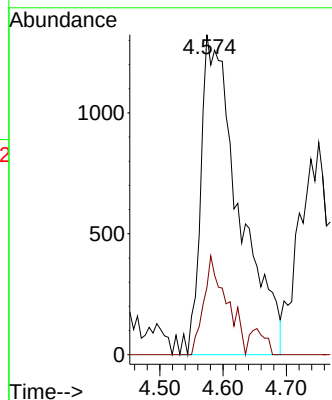
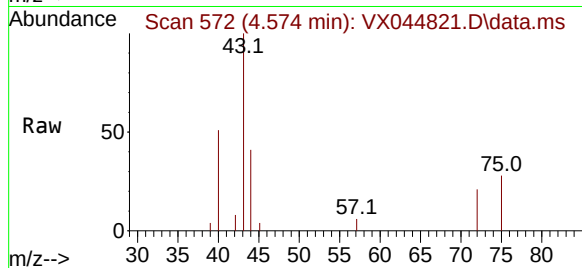
JPP-16.1-012925

Tgt Ion: 43 Resp: 5522

Ion Ratio Lower Upper

43 100

72 21.0 21.7 32.5#



#33

1,2-Dichloroethane-d4

Concen: 46.877 ug/l

RT: 5.946 min Scan# 797

Delta R.T. -0.006 min

Lab File: VX044821.D

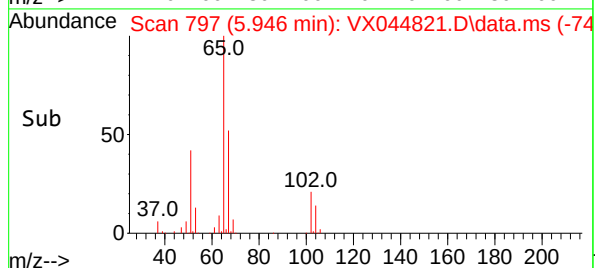
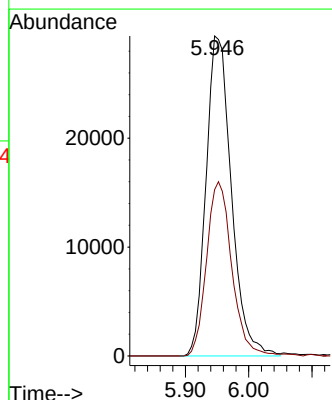
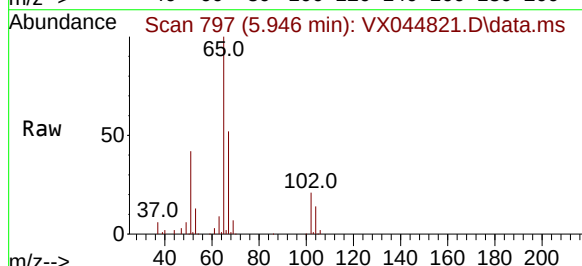
Acq: 03 Feb 2025 17:41

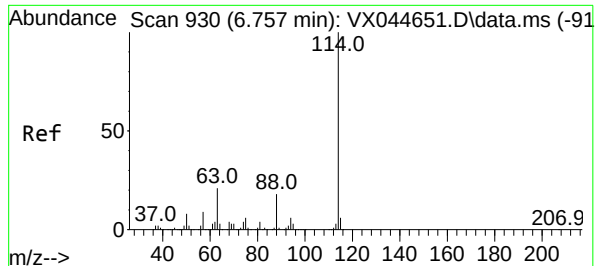
Tgt Ion: 65 Resp: 81765

Ion Ratio Lower Upper

65 100

67 54.2 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX044821.D

Acq: 03 Feb 2025 17:41

Instrument :

MSVOA_X

ClientSampleId :

JPP-16.1-012925

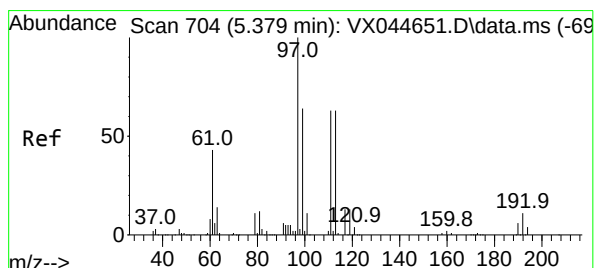
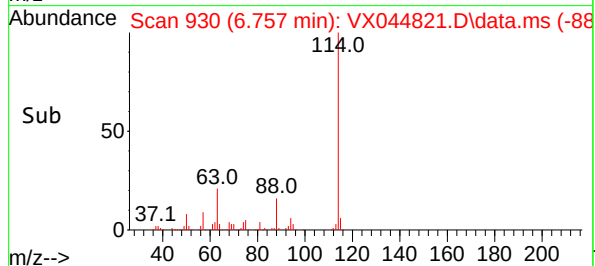
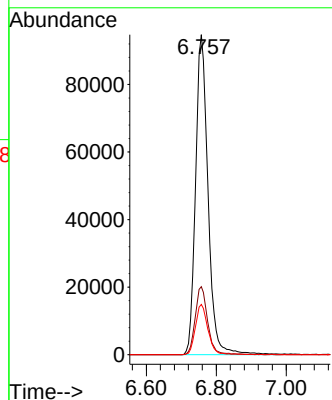
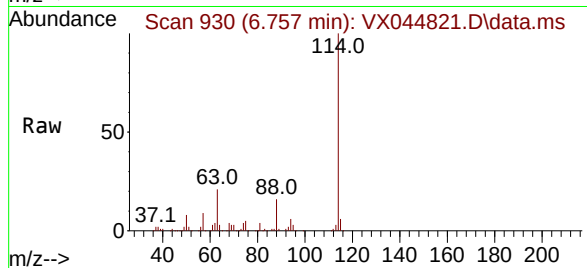
Tgt Ion:114 Resp: 234072

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.0

88 15.7 0.0 35.4



#35

Dibromofluoromethane

Concen: 48.504 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044821.D

Acq: 03 Feb 2025 17:41

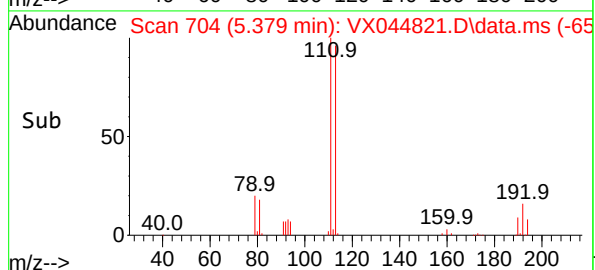
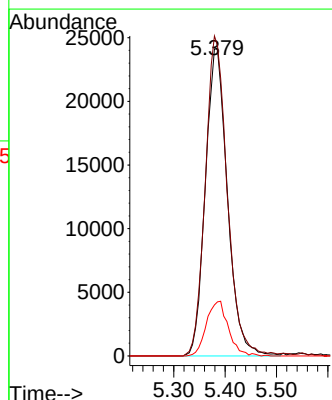
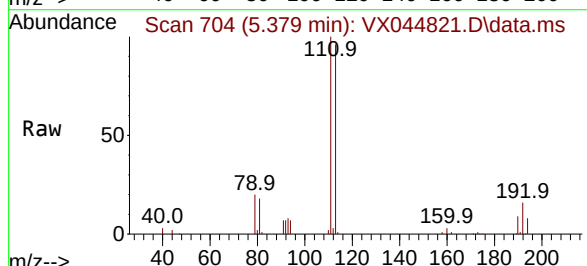
Tgt Ion:113 Resp: 72126

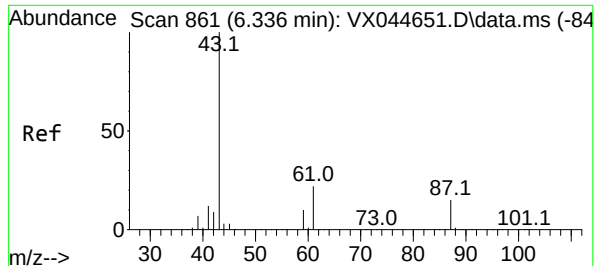
Ion Ratio Lower Upper

113 100

111 103.4 81.6 122.4

192 17.6 14.4 21.6





#43

Isopropyl Acetate

Concen: 32.018 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX044821.D

Acq: 03 Feb 2025 17:41

Instrument :

MSVOA_X

ClientSampleId :

JPP-16.1-012925

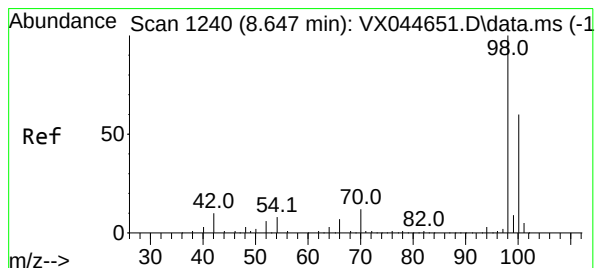
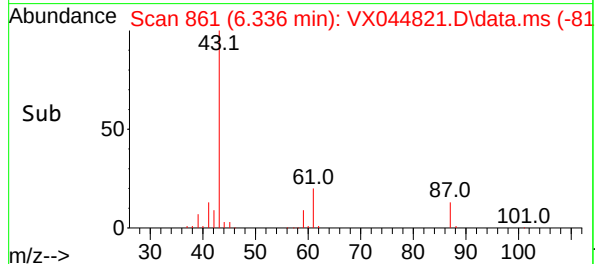
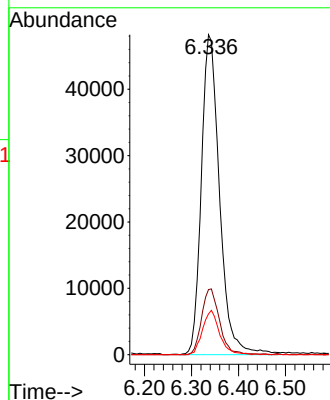
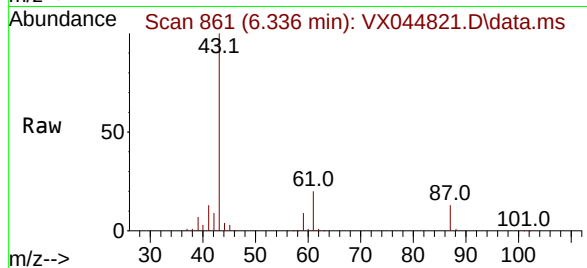
Tgt Ion: 43 Resp: 129840

Ion Ratio Lower Upper

43 100

61 20.0 16.6 24.8

87 12.9 11.0 16.6



#50

Toluene-d8

Concen: 52.930 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044821.D

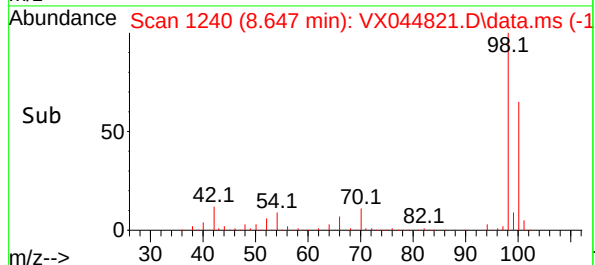
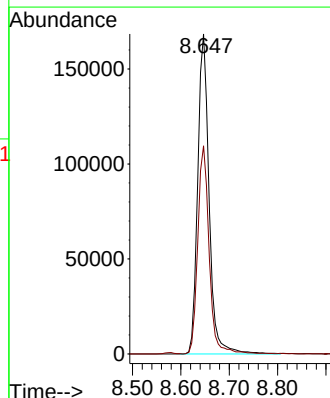
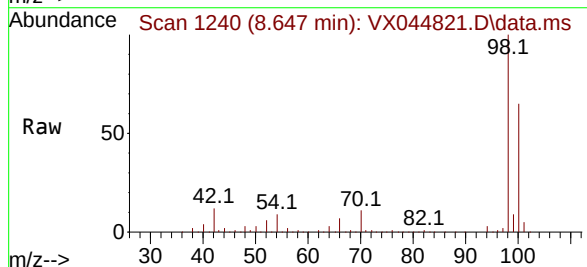
Acq: 03 Feb 2025 17:41

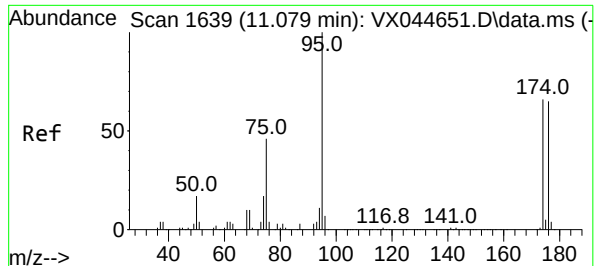
Tgt Ion: 98 Resp: 274439

Ion Ratio Lower Upper

98 100

100 65.3 53.2 79.8

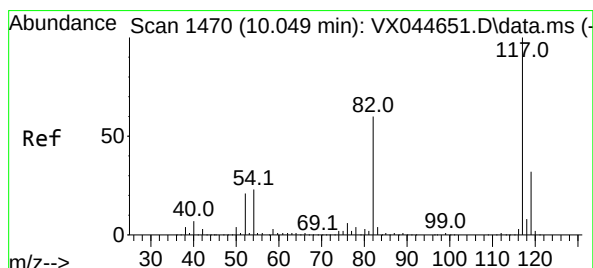
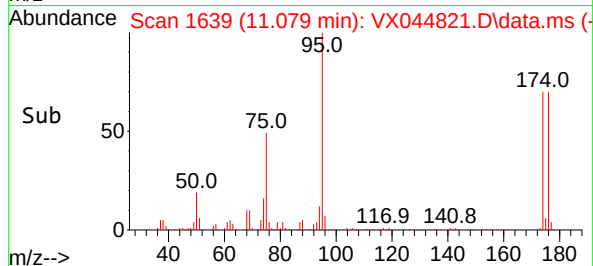
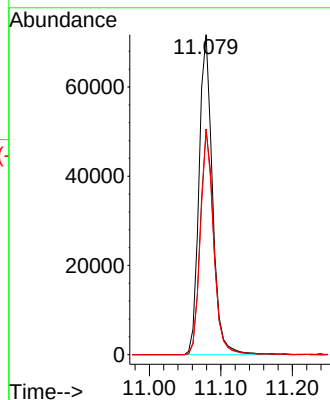
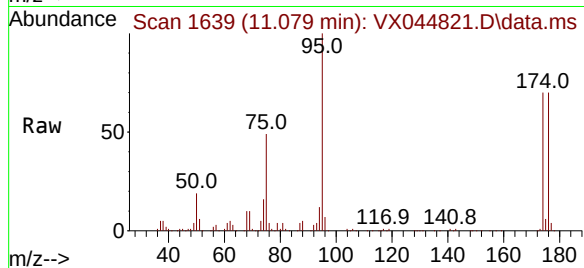




#62
4-Bromofluorobenzene
Concen: 48.468 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044821.D
Acq: 03 Feb 2025 17:41

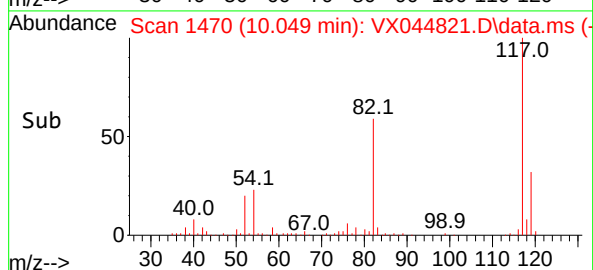
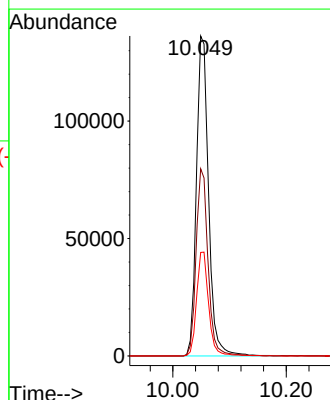
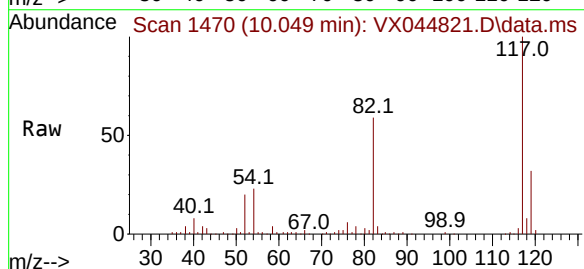
Instrument :
MSVOA_X
ClientSampleId :
JPP-16.1-012925

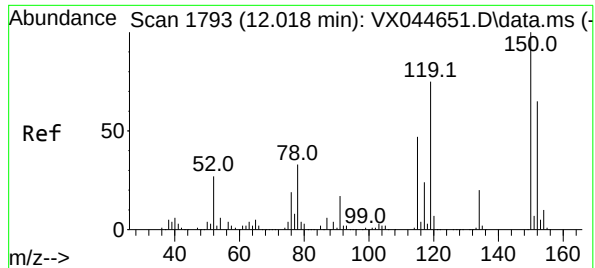
Tgt Ion: 95 Resp: 93684
Ion Ratio Lower Upper
95 100
174 70.5 0.0 133.0
176 68.8 0.0 129.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044821.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 117 Resp: 202229
Ion Ratio Lower Upper
117 100
82 58.5 47.6 71.4
119 32.4 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044821.D

Acq: 03 Feb 2025 17:41

Instrument :

MSVOA_X

ClientSampleId :

JPP-16.1-012925

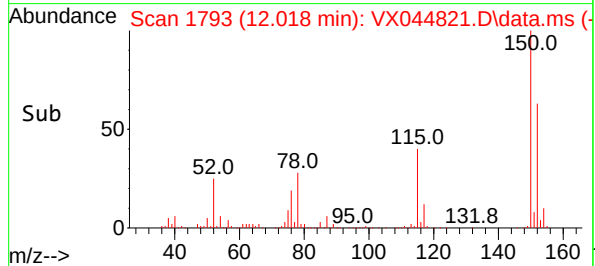
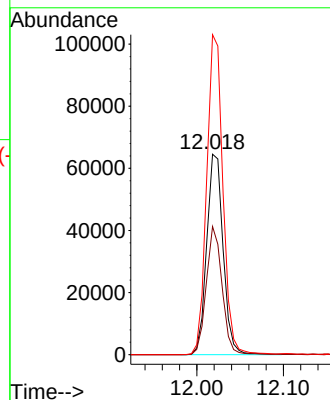
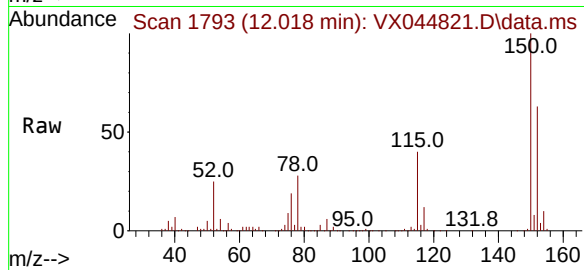
Tgt Ion:152 Resp: 85260

Ion Ratio Lower Upper

152 100

115 61.2 43.8 131.4

150 157.3 0.0 347.8





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: RUTW01
 Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235
 Instrument ID: MSVOA_X Calibration Date(s): 01/15/2025 01/15/2025
 Heated Purge: (Y/N) N Calibration Time(s): 10:31 13:37
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX044648.D		RRF005 = VX044649.D		RRF020 = VX044650.D			
		RRF050 = VX044651.D		RRF100 = VX044652.D		RRF150 = VX044653.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Vinyl Chloride	0.801	0.681	0.681	0.702	0.699	0.749	0.719	6.6	
1,1-Dichloroethene	0.638	0.546	0.572	0.566	0.571	0.618	0.585	6	
2-Butanone	0.451	0.444	0.444	0.426	0.449	0.450	0.444	2.1	
Carbon Tetrachloride	0.585	0.503	0.468	0.460	0.465	0.502	0.497	9.4	
Chloroform	1.261	1.226	1.185	1.142	1.095	1.206	1.186	5	
Benzene	1.517	1.376	1.364	1.306	1.274	1.384	1.370	6.1	
1,2-Dichloroethane	0.552	0.494	0.491	0.477	0.473	0.513	0.500	5.8	
Trichloroethene	0.338	0.319	0.324	0.316	0.324	0.355	0.329	4.5	
Tetrachloroethene	0.346	0.309	0.299	0.296	0.308	0.326	0.314	5.9	
Chlorobenzene	1.178	1.085	1.036	1.008	0.998	1.067	1.062	6.2	
1,2-Dichloroethane-d4		0.863	0.691	0.745	0.689	0.785	0.755	9.6	
Dibromofluoromethane		0.355	0.289	0.318	0.293	0.333	0.318	8.8	
Toluene-d8		1.270	1.051	1.111	1.001	1.104	1.108	9.1	
4-Bromofluorobenzene		0.445	0.394	0.421	0.383	0.421	0.413	6	

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

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X011525W.M
 Title : SW846 8260
 Last Update : Thu Jan 16 01:16:09 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX044648.D 5 =VX044649.D 20 =VX044650.D 50 =VX044651.D 100 =VX044652.D 150 =VX044653.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.596	0.606	0.641	0.679	0.751	0.763	0.673	10.67
3) P	Chloromethane	0.826	0.712	0.723	0.710	0.682	0.713	0.728	6.88
4) C	Vinyl Chloride	0.801	0.681	0.681	0.702	0.699	0.749	0.719	6.61#
5) T	Bromomethane		0.170	0.166	0.171	0.169	0.183	0.172	3.73
6) T	Chloroethane	0.165	0.123	0.113	0.117	0.124	0.149	0.132	15.70
7) T	Trichlorofluor...	0.859	0.749	0.755	0.765	0.808	0.830	0.795	5.66
8) T	Diethyl Ether	0.394	0.320	0.304	0.292	0.292	0.321	0.321	11.92
9) T	1,1,2-Trichlor...	0.678	0.563	0.562	0.554	0.598	0.629	0.597	8.15
10) T	Methyl Iodide		0.818	0.832	0.808	0.798	0.822	0.815	1.59
11) T	Tert butyl alc...		0.211	0.165	0.151	0.152	0.162	0.168	14.66
12) CM	1,1-Dichloroet...	0.638	0.546	0.572	0.566	0.571	0.618	0.585	5.99#
13) T	Acrolein		0.113	0.066	0.068	0.068	0.080	0.079	25.32
14) T	Allyl chloride	1.432	1.117	1.078	1.049	1.051	1.112	1.140	12.83
15) T	Acrylonitrile	0.350	0.337	0.325	0.313	0.329	0.326	0.330	3.83
16) T	Acetone	0.369	0.277	0.274	0.267	0.309	0.295	0.299	12.72
17) T	Carbon Disulfide	1.690	1.556	1.571	1.544	1.552	1.673	1.597	4.11
18) T	Methyl Acetate	1.041	0.832	0.826	0.880	0.942	1.006	0.921	9.78
19) T	Methyl tert-bu...	2.328	2.120	2.091	2.032	1.998	2.155	2.121	5.49
20) T	Methylene Chlo...	0.828	0.699	0.682	0.650	0.633	0.679	0.695	9.95
21) T	trans-1,2-Dich...	0.738	0.607	0.590	0.568	0.559	0.605	0.611	10.69
22) T	Diisopropyl ether	2.109	2.041	1.991	1.901	1.854	1.993	1.981	4.67
23) T	Vinyl Acetate	1.848	1.805	1.757	1.650	1.637	1.708	1.734	4.88
24) P	1,1-Dichloroet...	1.251	1.164	1.161	1.126	1.111	1.238	1.175	4.89
25) T	2-Butanone	0.451	0.444	0.444	0.426	0.449	0.450	0.444	2.09
26) T	2,2-Dichloropr...	1.362	1.129	1.094	1.054	1.048	1.145	1.139	10.20
27) T	cis-1,2-Dichlo...	0.940	0.735	0.746	0.717	0.704	0.771	0.769	11.33
28) T	Bromochloromet...	0.638	0.554	0.521	0.531	0.527	0.523	0.549	8.21
29) T	Tetrahydrofuran	0.319	0.284	0.280	0.268	0.280	0.287	0.286	6.09
30) C	Chloroform	1.261	1.226	1.185	1.142	1.095	1.206	1.186	5.02#
31) T	Cyclohexane		0.938	0.956	0.931	0.935	0.991	0.950	2.62
32) T	1,1,1-Trichlor...	1.393	1.036	1.037	0.997	0.991	1.087	1.090	13.97
33) S	1,2-Dichloroet...		0.863	0.691	0.745	0.689	0.785	0.755	9.62
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.355	0.289	0.318	0.293	0.333	0.318	8.75
36) T	1,1-Dichloropr...	0.545	0.420	0.422	0.408	0.415	0.444	0.442	11.69
37) T	Ethyl Acetate	0.420	0.485	0.472	0.463	0.487	0.498	0.471	5.94
38) T	Carbon Tetrach...	0.585	0.503	0.468	0.460	0.465	0.502	0.497	9.44
39) T	Methylcyclohexane	0.662	0.555	0.556	0.551	0.583	0.614	0.587	7.49
40) TM	Benzene	1.517	1.376	1.364	1.306	1.274	1.384	1.370	6.12
41) T	Methacrylonitrile	0.310	0.277	0.257	0.254	0.273	0.274	0.274	7.24
42) TM	1,2-Dichloroet...	0.552	0.494	0.491	0.477	0.473	0.513	0.500	5.79
43) T	Isopropyl Acetate	0.981	0.845	0.850	0.815	0.831	0.875	0.866	6.88
44) TM	Trichloroethene	0.338	0.319	0.324	0.316	0.324	0.355	0.329	4.46
45) C	1,2-Dichloropr...	0.367	0.359	0.335	0.329	0.326	0.354	0.345	5.01#
46) T	Dibromomethane	0.300	0.271	0.249	0.246	0.243	0.266	0.263	8.19
47) T	Bromodichlorom...	0.634	0.530	0.518	0.508	0.499	0.542	0.538	9.13
48) T	Methyl methacr...	0.389	0.390	0.408	0.399	0.403	0.423	0.402	3.21
49) T	1,4-Dioxane	0.010	0.008	0.008	0.008	0.008	0.008	0.008	7.10
50) S	Toluene-d8		1.270	1.051	1.111	1.001	1.104	1.108	9.12
51) T	4-Methyl-2-Pen...	0.549	0.489	0.481	0.449	0.445	0.458	0.479	8.09
52) CM	Toluene	0.941	0.864	0.849	0.805	0.769	0.804	0.839	7.25#
53) T	t-1,3-Dichloro...	0.578	0.551	0.564	0.546	0.537	0.563	0.556	2.65
54) T	cis-1,3-Dichlo...	0.684	0.589	0.603	0.574	0.567	0.603	0.603	7.02
55) T	1,1,2-Trichlor...	0.401	0.342	0.341	0.319	0.312	0.321	0.339	9.61
56) T	Ethyl methacry...	0.641	0.576	0.598	0.564	0.547	0.574	0.583	5.61

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X011525W.M

57)	T	1,3-Dichloropr...	0.652	0.594	0.581	0.555	0.527	0.557	0.578	7.46
58)	T	2-Chloroethyl ...	0.377	0.281	0.252	0.273	0.265	0.271	0.286	15.86
59)	T	2-Hexanone	0.397	0.358	0.357	0.330	0.331	0.341	0.352	7.18
60)	T	Dibromochlorom...	0.449	0.407	0.399	0.381	0.369	0.386	0.398	7.06
61)	T	1,2-Dibromoethane	0.411	0.361	0.356	0.337	0.328	0.341	0.356	8.36
62)	S	4-Bromofluorob...	0.445	0.394	0.421	0.383	0.421	0.413		5.96
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.346	0.309	0.299	0.296	0.308	0.326	0.314	5.92
65)	PM	Chlorobenzene	1.178	1.085	1.036	1.008	0.998	1.067	1.062	6.18
66)	T	1,1,1,2-Tetrac...	0.420	0.398	0.376	0.367	0.361	0.394	0.386	5.72
67)	C	Ethyl Benzene	2.026	1.839	1.827	1.779	1.777	1.871	1.853	4.96#
68)	T	m/p-Xylenes	0.771	0.697	0.686	0.656	0.646	0.669	0.688	6.55
69)	T	o-Xylene	0.787	0.713	0.690	0.665	0.644	0.674	0.695	7.27
70)	T	Styrene	1.172	1.146	1.133	1.089	1.069	1.128	1.123	3.37
71)	P	Bromoform	0.333	0.315	0.302	0.302	0.304	0.331	0.314	4.58
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	4.514	4.259	4.043	3.917	3.790	3.985	4.085	6.40
74)	T	N-ethyl acetate	2.228	2.047	1.969	1.900	1.882	2.055	2.013	6.32
75)	P	1,1,2,2-Tetrac...	1.618	1.510	1.398	1.302	1.267	1.370	1.411	9.35
76)	T	1,2,3-Trichlor...	1.321	1.369	1.173	1.102	1.140	1.176	1.213	8.76
77)	T	Bromobenzene	1.085	0.985	0.928	0.903	0.876	0.952	0.955	7.79
78)	T	n-propylbenzene	4.902	4.366	4.481	4.392	4.346	4.541	4.505	4.63
79)	T	2-Chlorotoluene	3.385	2.964	2.860	2.763	2.657	2.831	2.910	8.73
80)	T	1,3,5-Trimethy...	3.707	3.522	3.312	3.187	3.057	3.167	3.325	7.38
81)	T	trans-1,4-Dich...	0.535	0.517	0.512	0.522	0.567	0.531		4.15
82)	T	4-Chlorotoluene	3.509	3.220	3.182	3.075	2.978	3.161	3.188	5.64
83)	T	tert-Butylbenzene	4.017	3.693	3.410	3.304	3.137	3.300	3.477	9.27
84)	T	1,2,4-Trimethy...	3.967	3.380	3.346	3.211	3.097	3.273	3.379	9.04
85)	T	sec-Butylbenzene	4.515	4.037	3.977	3.895	3.855	4.009	4.048	5.90
86)	T	p-Isopropyltol...	3.663	3.337	3.277	3.222	3.161	3.303	3.327	5.29
87)	T	1,3-Dichlorobe...	1.733	1.641	1.619	1.613	1.608	1.720	1.656	3.38
88)	T	1,4-Dichlorobe...	1.911	1.664	1.606	1.577	1.579	1.705	1.674	7.58
89)	T	n-Butylbenzene	2.992	2.713	2.770	2.806	2.878	2.986	2.857	4.02
90)	T	Hexachloroethane	0.957	0.755	0.704	0.690	0.678	0.736	0.753	13.77
91)	T	1,2-Dichlorobe...	1.919	1.756	1.665	1.626	1.548	1.687	1.700	7.48
92)	T	1,2-Dibromo-3-...	0.407	0.355	0.320	0.310	0.322	0.356	0.345	10.33
93)	T	1,2,4-Trichlor...	0.956	0.943	0.945	1.031	1.061	1.163	1.016	8.54
94)	T	Hexachlorobuta...	0.419	0.384	0.373	0.393	0.401	0.426	0.399	5.14
95)	T	Naphthalene	4.049	3.759	3.797	3.814	3.860	4.244	3.920	4.80
96)	T	1,2,3-Trichlor...	1.058	0.993	1.006	1.055	1.055	1.156	1.054	5.44

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044648.D
 Acq On : 15 Jan 2025 10:31
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:58:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	214233	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	389452	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	329917	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	135288	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.167	85	2555	0.886	ug/l	97
3) Chloromethane	1.295	50	3539	1.135	ug/l	96
4) Vinyl Chloride	1.374	62	3434	1.115	ug/l #	64
6) Chloroethane	1.660	64	708	1.253	ug/l #	83
7) Trichlorofluoromethane	1.862	101	3682	1.082	ug/l	89
8) Diethyl Ether	2.130	74	1689	1.229	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.313	101	2905	1.135	ug/l #	88
12) 1,1-Dichloroethene	2.313	96	2735	1.090	ug/l	82
14) Allyl chloride	2.654	41	6137	1.257	ug/l	88
15) Acrylonitrile	3.069	53	7502	5.306	ug/l	95
16) Acetone	2.386	43	7914	6.186	ug/l	97
17) Carbon Disulfide	2.496	76	7240	1.058	ug/l	96
18) Methyl Acetate	2.703	43	4460	1.130	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	9974	1.098	ug/l	96
20) Methylene Chloride	2.782	84	3548	1.191	ug/l	94
21) trans-1,2-Dichloroethene	3.087	96	3164	1.208	ug/l	94
22) Diisopropyl ether	3.758	45	9038	1.065	ug/l #	76
23) Vinyl Acetate	3.721	43	39593	5.328	ug/l	98
24) 1,1-Dichloroethane	3.599	63	5359	1.064	ug/l	98
25) 2-Butanone	4.574	43	9672	5.085	ug/l	94
26) 2,2-Dichloropropane	4.459	77	5837	1.196	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	4029	1.223	ug/l	87
28) Bromochloromethane	4.891	49	2733	1.162	ug/l #	95
29) Tetrahydrofuran	5.019	42	6842	5.576	ug/l	98
30) Chloroform	5.087	83	5401	1.063	ug/l	85
32) 1,1,1-Trichloroethane	5.379	97	5968	1.278	ug/l #	47
36) 1,1-Dichloropropene	5.678	75	4243	1.232	ug/l #	92
37) Ethyl Acetate	4.727	43	3269	0.891	ug/l #	88
38) Carbon Tetrachloride	5.666	117	4558	1.177	ug/l	85
39) Methylcyclohexane	7.367	83	5156	1.128	ug/l	98
40) Benzene	6.025	78	11813	1.107	ug/l	97
41) Methacrylonitrile	4.928	41	2415m	1.146	ug/l	
42) 1,2-Dichloroethane	6.092	62	4299	1.104	ug/l	91
43) Isopropyl Acetate	6.355	43	7640	1.132	ug/l	96
44) Trichloroethene	7.123	130	2633	1.026	ug/l	91
45) 1,2-Dichloropropane	7.434	63	2857	1.064	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044648.D
 Acq On : 15 Jan 2025 10:31
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:58:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.580	93	2337	1.143	ug/l	94
47) Bromodichloromethane	7.818	83	4937	1.177	ug/l	89
48) Methyl methacrylate	7.702	41	3029	0.967	ug/l	91
49) 1,4-Dioxane	7.696	88	1485	22.727	ug/l #	87
51) 4-Methyl-2-Pentanone	8.580	43	21388	5.736	ug/l	100
52) Toluene	8.714	92	7332	1.122	ug/l	93
53) t-1,3-Dichloropropene	8.982	75	4499	1.038	ug/l	99
54) cis-1,3-Dichloropropene	8.373	75	5328	1.134	ug/l #	87
55) 1,1,2-Trichloroethane	9.153	97	3124	1.182	ug/l	91
56) Ethyl methacrylate	9.122	69	4994	1.099	ug/l	89
57) 1,3-Dichloropropane	9.311	76	5078	1.128	ug/l	92
58) 2-Chloroethyl Vinyl ether	8.245	63	14681	6.581	ug/l	98
59) 2-Hexanone	9.439	43	15480	5.643	ug/l	98
60) Dibromochloromethane	9.519	129	3495	1.127	ug/l	100
61) 1,2-Dibromoethane	9.610	107	3200	1.155	ug/l	96
64) Tetrachloroethene	9.269	164	2280	1.101	ug/l	87
65) Chlorobenzene	10.073	112	7770	1.109	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	2769	1.087	ug/l #	62
67) Ethyl Benzene	10.195	91	13366	1.093	ug/l	93
68) m/p-Xylenes	10.299	106	10180	2.244	ug/l	100
69) o-Xylene	10.640	106	5193	1.132	ug/l	97
70) Styrene	10.659	104	7732	1.044	ug/l	93
71) Bromoform	10.799	173	2194	1.058	ug/l #	93
73) Isopropylbenzene	10.964	105	12214	1.105	ug/l	97
74) N-amyl acetate	10.848	43	6028	1.107	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.214	83	4377	1.147	ug/l	91
76) 1,2,3-Trichloropropane	11.244	75	3574m	1.119	ug/l	
77) Bromobenzene	11.201	156	2937	1.137	ug/l	93
78) n-propylbenzene	11.305	91	13264	1.088	ug/l	98
79) 2-Chlorotoluene	11.366	91	9159	1.163	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	10031	1.115	ug/l	97
82) 4-Chlorotoluene	11.457	91	9494	1.101	ug/l	93
83) tert-Butylbenzene	11.713	119	10869	1.155	ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	10735	1.174	ug/l	94
85) sec-Butylbenzene	11.890	105	12217	1.115	ug/l	99
86) p-Isopropyltoluene	12.012	119	9910	1.101	ug/l	90
87) 1,3-Dichlorobenzene	11.969	146	4688	1.046	ug/l	97
88) 1,4-Dichlorobenzene	12.037	146	5172m	1.163	ug/l	
89) n-Butylbenzene	12.335	91	8095	1.047	ug/l	94
90) Hexachloroethane	12.536	117	2589	1.270	ug/l	92
91) 1,2-Dichlorobenzene	12.341	146	5192	1.128	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1100	1.178	ug/l	97
93) 1,2,4-Trichlorobenzene	13.591	180	2587	0.941	ug/l	92
94) Hexachlorobutadiene	13.725	225	1133	1.049	ug/l	91
95) Naphthalene	13.780	128	10956	1.033	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	2863	1.004	ug/l	96

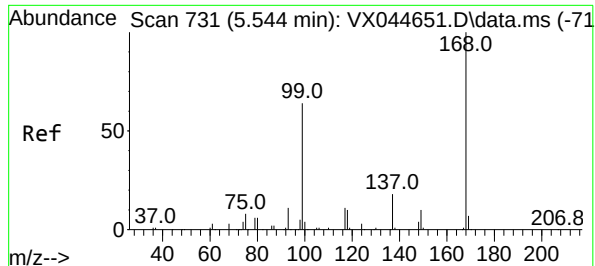
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

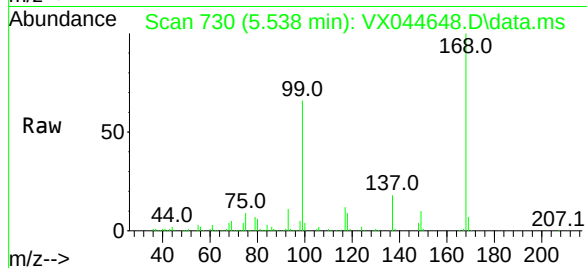
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

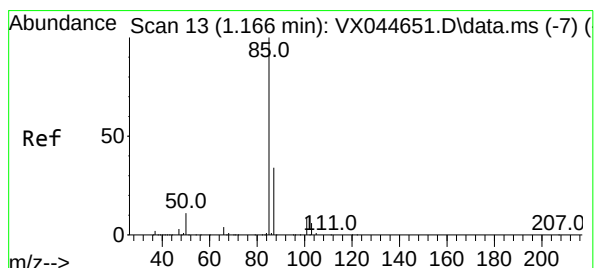
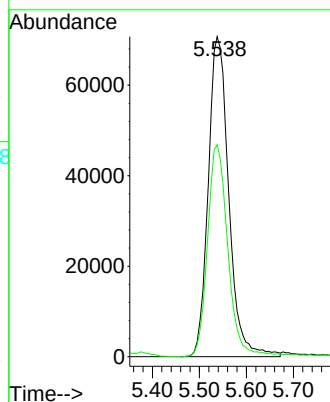
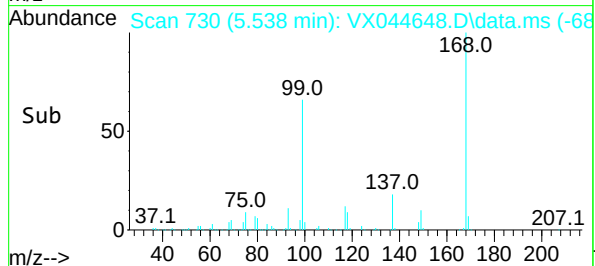
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:168 Resp: 21423
Ion Ratio Lower Upper
168 100
99 66.1 51.1 76.7

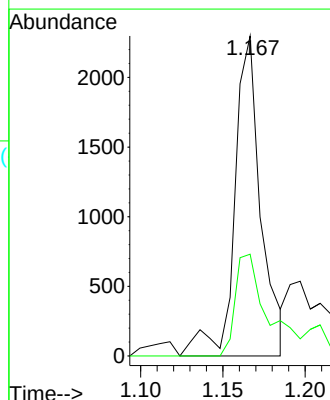
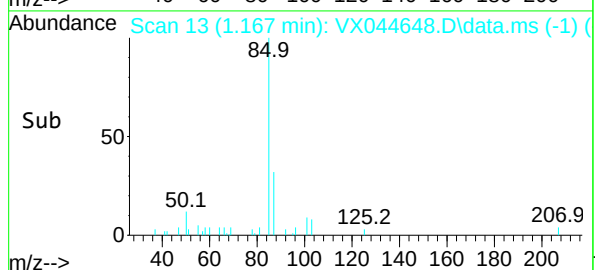
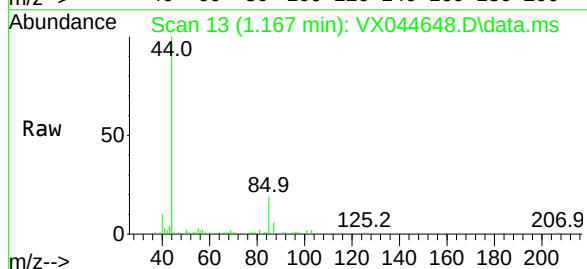
Manual Integrations
APPROVED

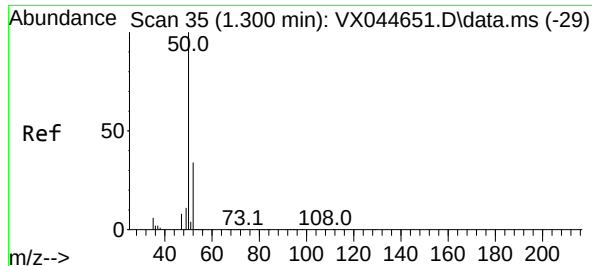
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#2
Dichlorodifluoromethane
Concen: 0.886 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

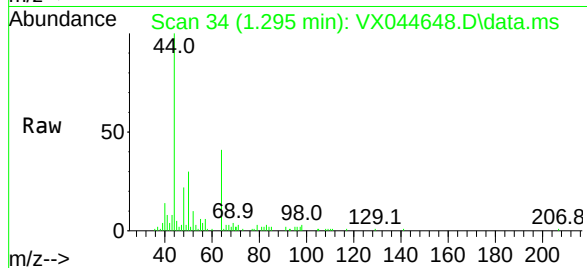
Tgt Ion: 85 Resp: 2555
Ion Ratio Lower Upper
85 100
87 31.8 16.8 50.4





#3
Chloromethane
Concen: 1.135 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

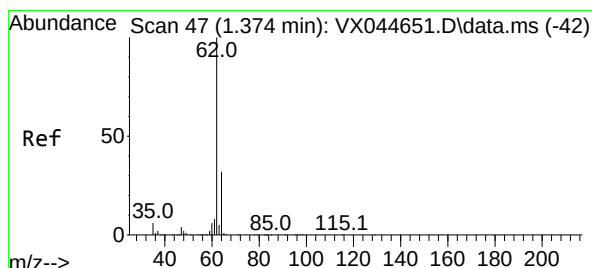
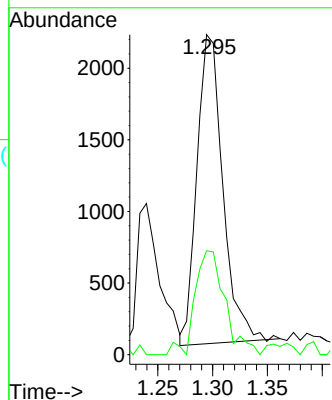
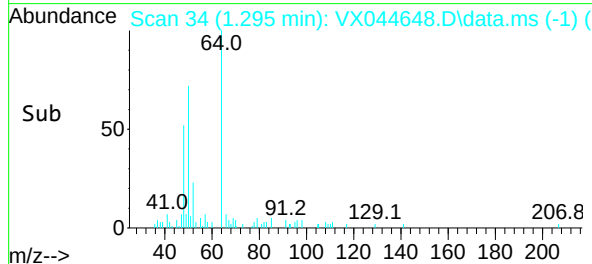
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 50 Resp: 3539
Ion Ratio Lower Upper
50 100
52 31.5 27.0 40.4

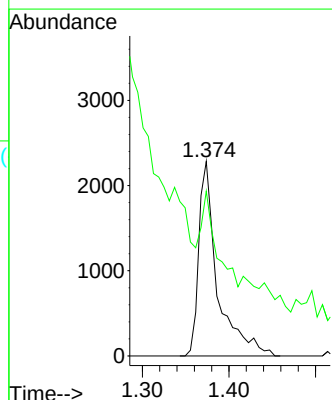
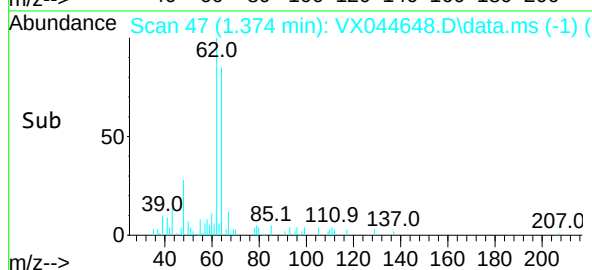
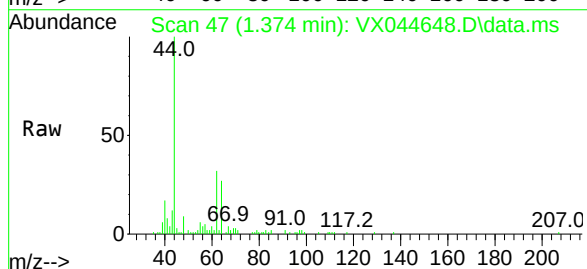
Manual Integrations
APPROVED

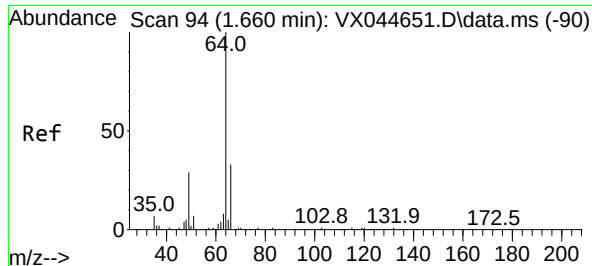
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#4
Vinyl Chloride
Concen: 1.115 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

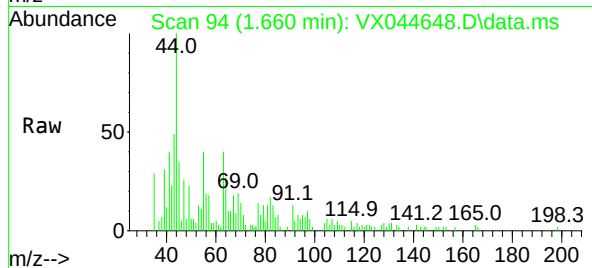
Tgt Ion: 62 Resp: 3434
Ion Ratio Lower Upper
62 100
64 53.6 26.6 39.8#





#6
Chloroethane
Concen: 1.253 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

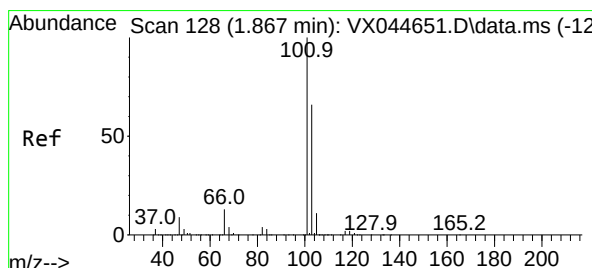
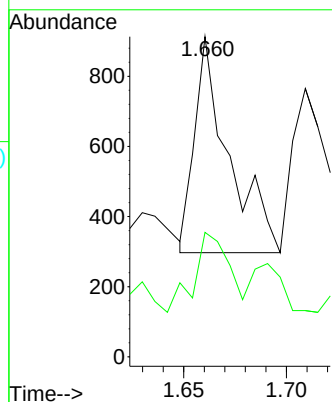
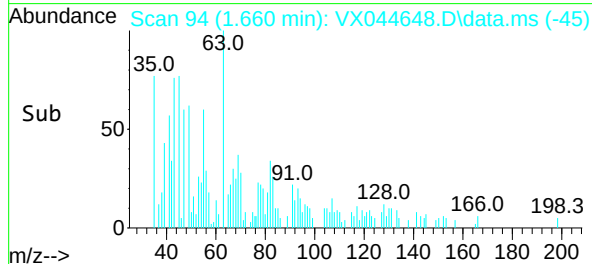
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 64 Resp: 708
Ion Ratio Lower Upper
64 100
66 23.4 26.6 39.8

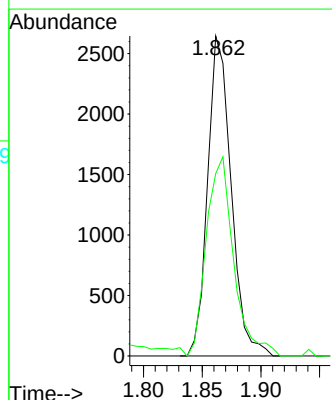
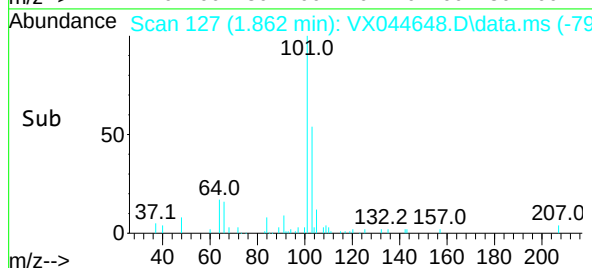
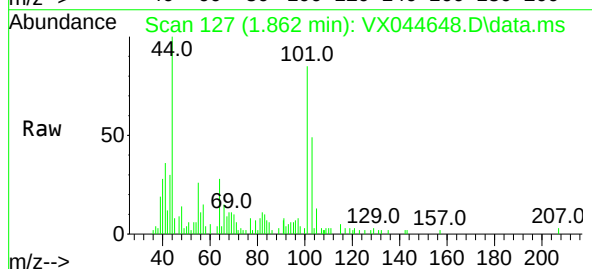
Manual Integrations
APPROVED

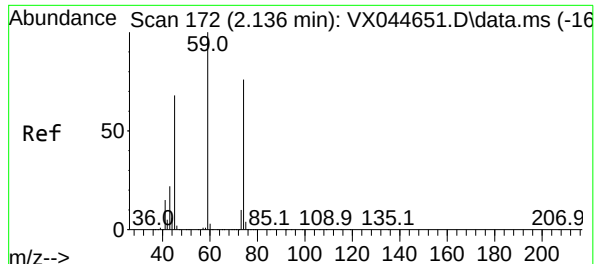
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#7
Trichlorofluoromethane
Concen: 1.082 ug/l
RT: 1.862 min Scan# 127
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

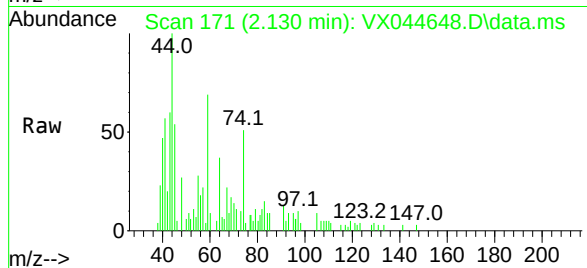
Tgt Ion:101 Resp: 3682
Ion Ratio Lower Upper
101 100
103 57.0 52.5 78.7





#8
Diethyl Ether
Concen: 1.229 ug/l
RT: 2.130 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

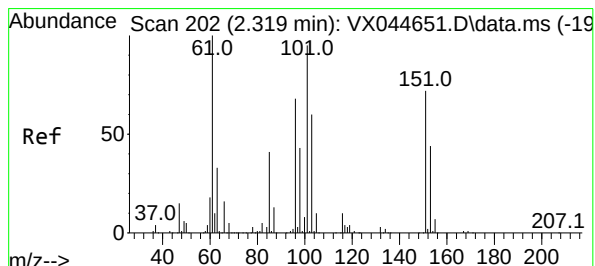
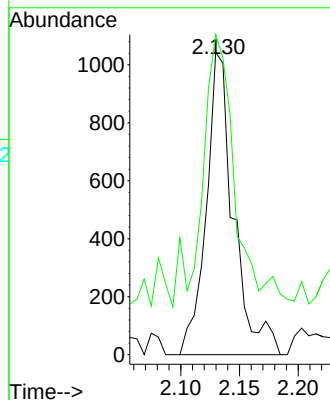
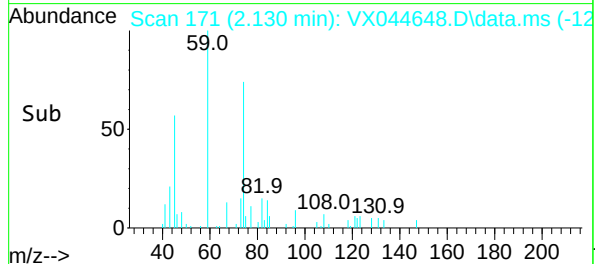
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



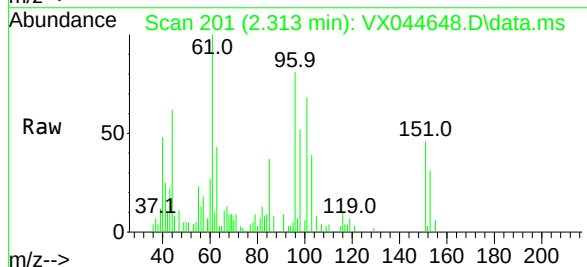
Tgt Ion: 74 Resp: 1689
Ion Ratio Lower Upper
74 100
45 106.7 47.1 141.3

Manual Integrations
APPROVED

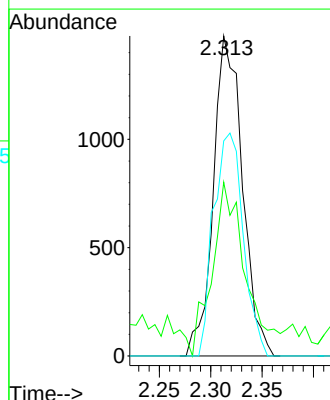
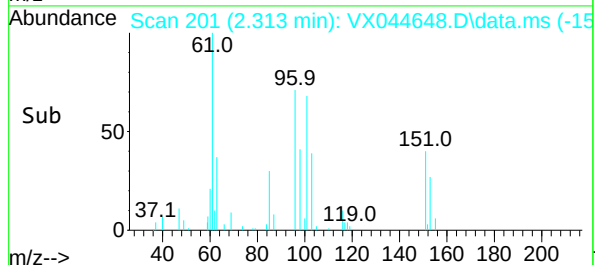
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

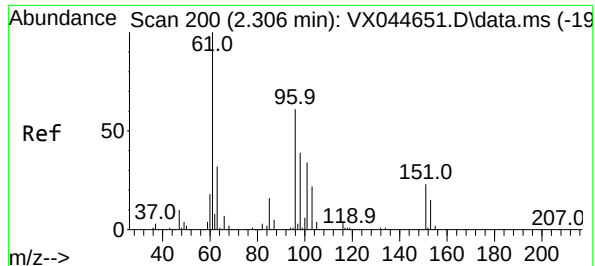


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.135 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31



Tgt Ion:101 Resp: 2905
Ion Ratio Lower Upper
101 100
85 62.7 35.3 52.9#
151 71.2 58.2 87.4





#12

1,1-Dichloroethene

Concen: 1.090 ug/l

RT: 2.313 min Scan# 200

Delta R.T. 0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

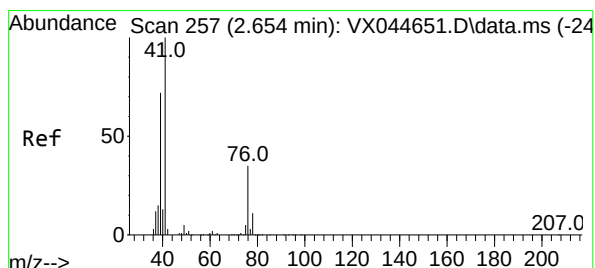
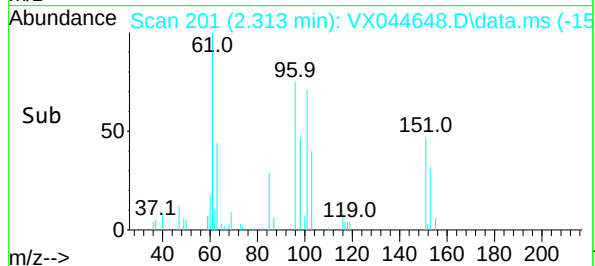
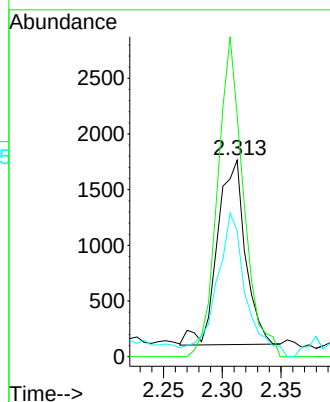
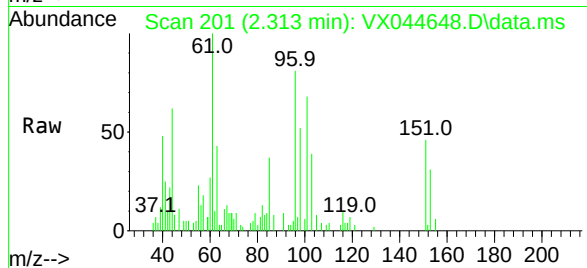
VSTDIC001

Tgt Ion:	96	Resp:	273
Ion	Ratio	Lower	Upper
96	100		
61	131.3	131.1	196.7
98	63.5	51.2	76.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#14

Allyl chloride

Concen: 1.257 ug/l

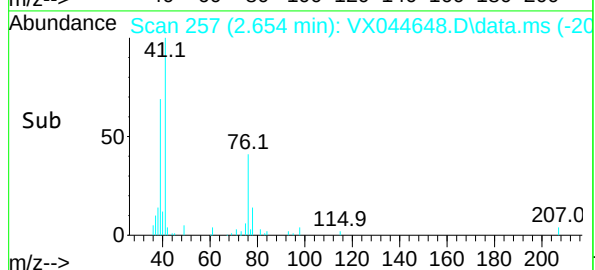
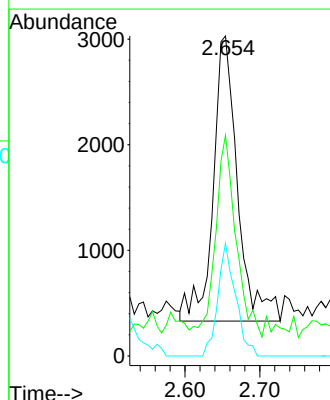
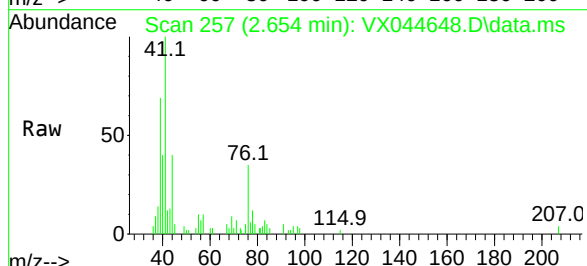
RT: 2.654 min Scan# 257

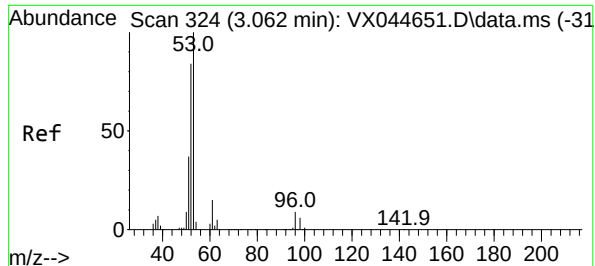
Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Tgt Ion:	41	Resp:	6137
Ion	Ratio	Lower	Upper
41	100		
39	58.2	54.9	82.3
76	28.7	28.4	42.6





#15

Acrylonitrile

Concen: 5.306 ug/l

RT: 3.069 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Tgt Ion: 53 Resp: 750

Ion Ratio Lower Upper

53 100

52 86.7 66.0 99.0

51 40.4 28.9 43.3

Instrument :

MSVOA_X

ClientSampleId :

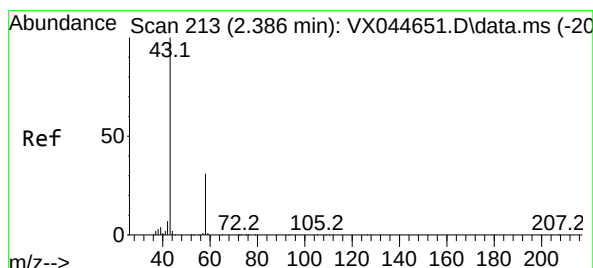
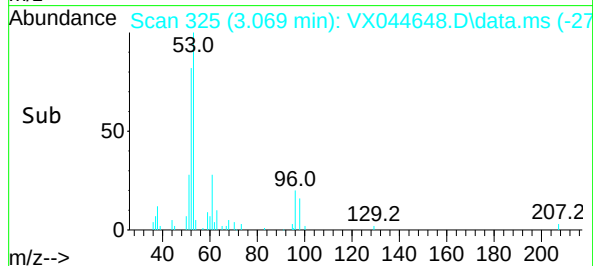
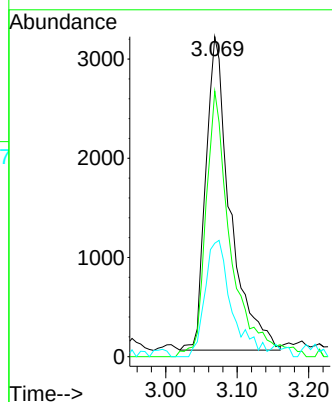
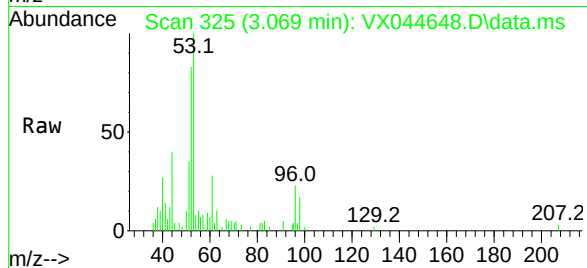
VSTDICC001

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#16

Acetone

Concen: 6.186 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX044648.D

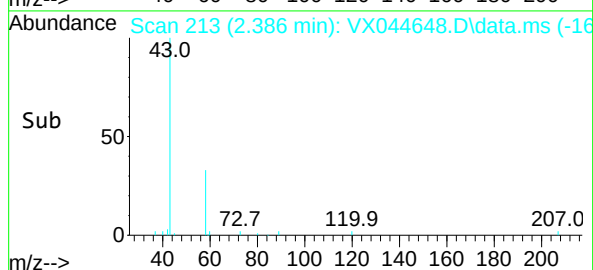
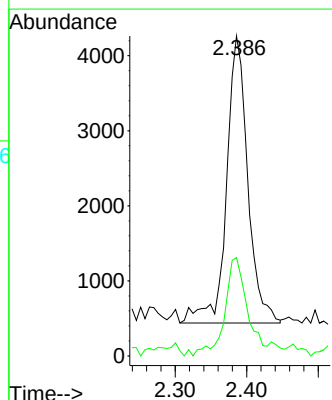
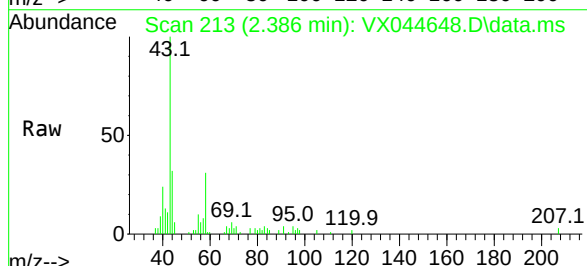
Acq: 15 Jan 2025 10:31

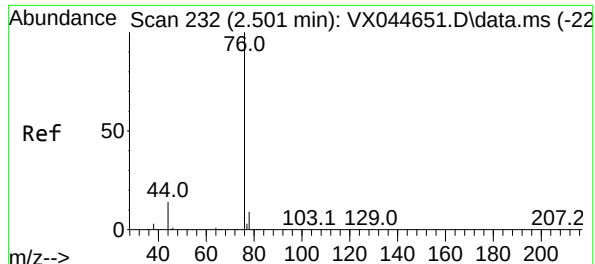
Tgt Ion: 43 Resp: 7914

Ion Ratio Lower Upper

43 100

58 32.5 24.6 37.0





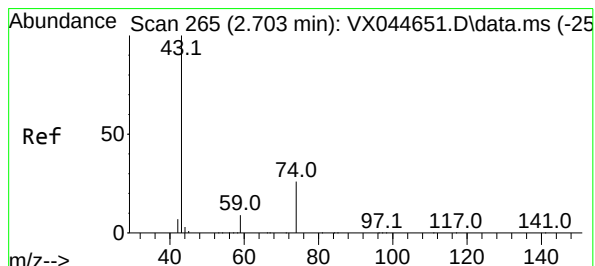
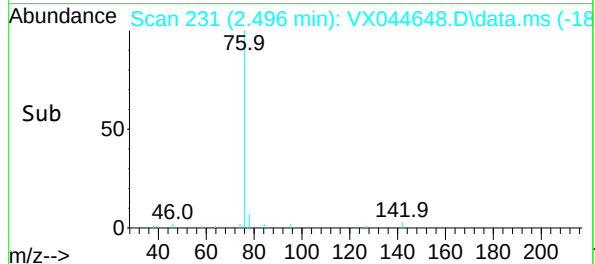
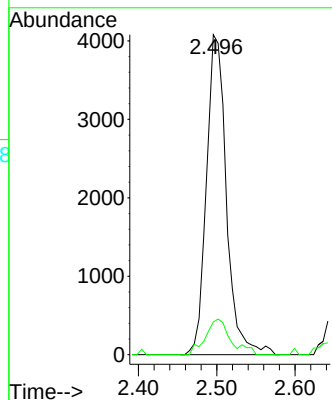
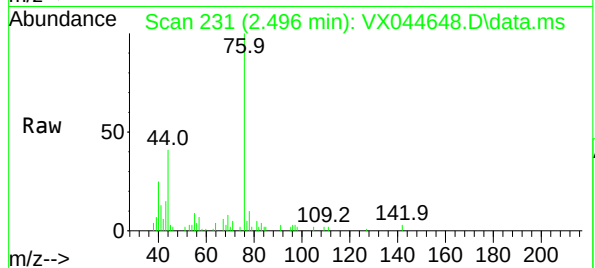
#17
Carbon Disulfide
Concen: 1.058 ug/l
RT: 2.496 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 76 Resp: 7240
Ion Ratio Lower Upper
76 100
78 10.2 7.1 10.7

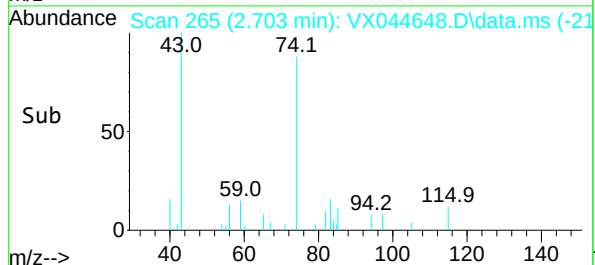
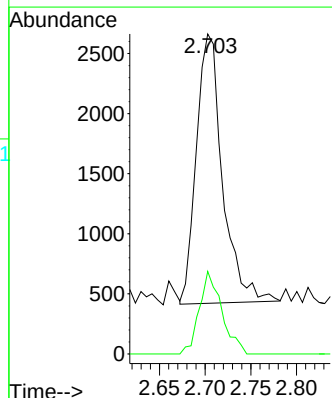
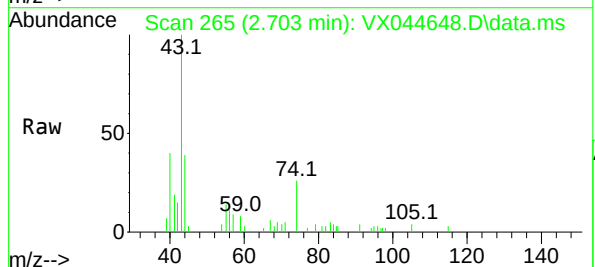
Manual Integrations
APPROVED

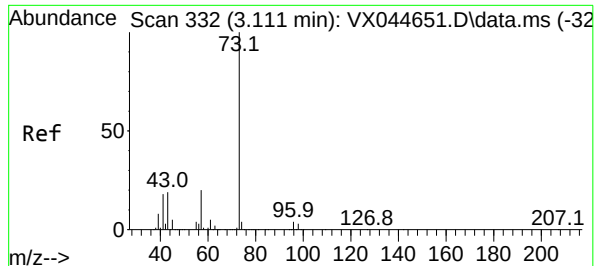
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#18
Methyl Acetate
Concen: 1.130 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

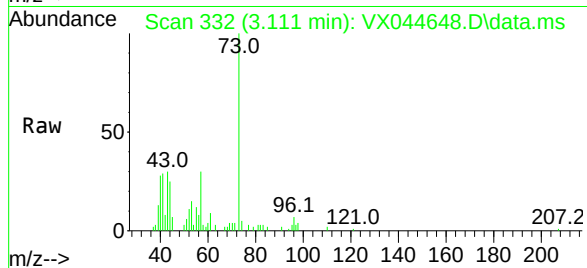
Tgt Ion: 43 Resp: 4460
Ion Ratio Lower Upper
43 100
74 26.5 19.8 29.8





#19
Methyl tert-butyl Ether
Concen: 1.098 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

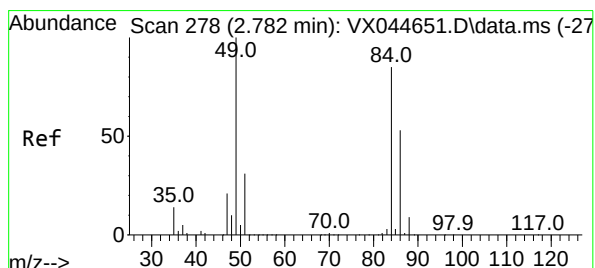
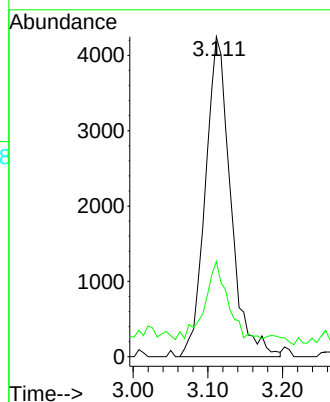
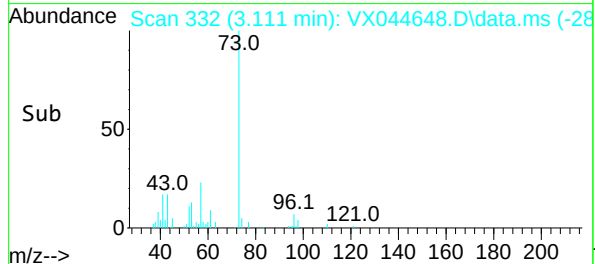
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 73 Resp: 9974
Ion Ratio Lower Upper
73 100
57 23.7 17.4 26.0

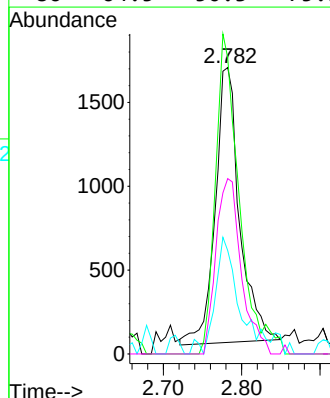
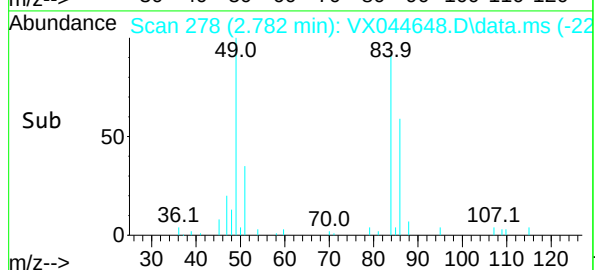
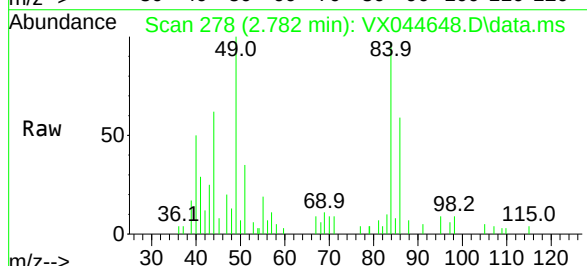
Manual Integrations
APPROVED

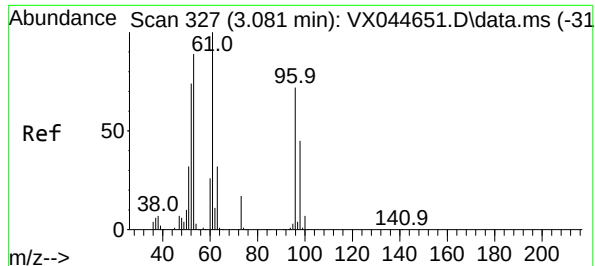
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#20
Methylene Chloride
Concen: 1.191 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

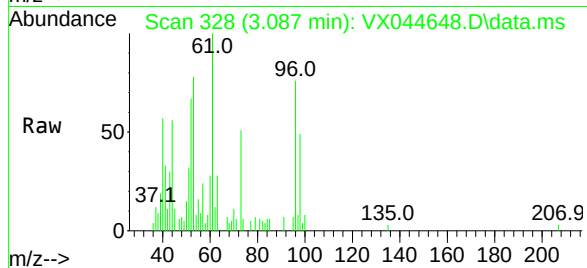
Tgt Ion: 84 Resp: 3548
Ion Ratio Lower Upper
84 100
49 108.9 94.2 141.4
51 34.2 28.8 43.2
86 64.5 50.3 75.5





#21
trans-1,2-Dichloroethene
Concen: 1.208 ug/l
RT: 3.087 min Scan# 3164
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

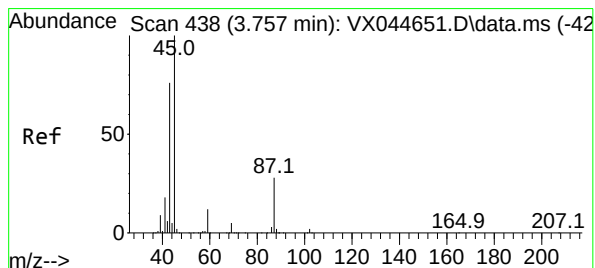
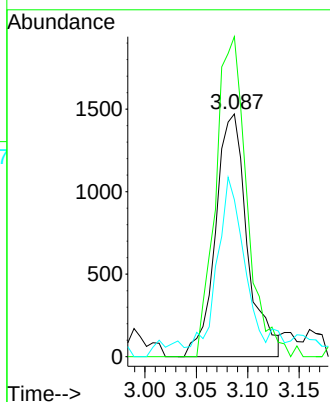
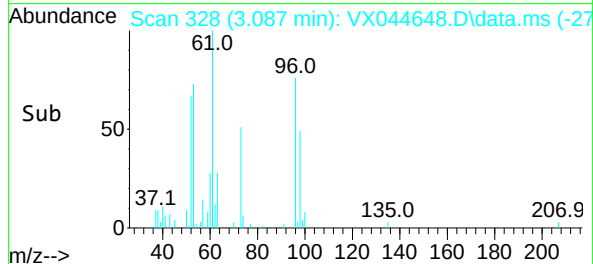
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 96 Resp: 3164
Ion Ratio Lower Upper
96 100
61 131.8 111.0 166.6
98 58.2 50.2 75.2

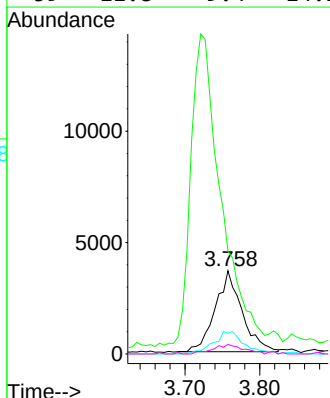
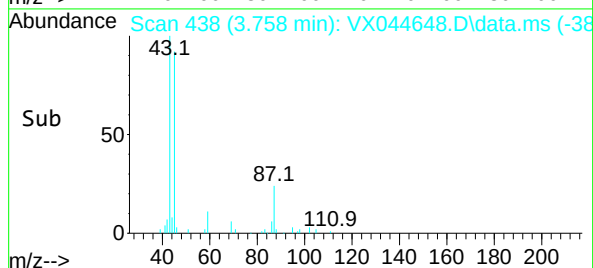
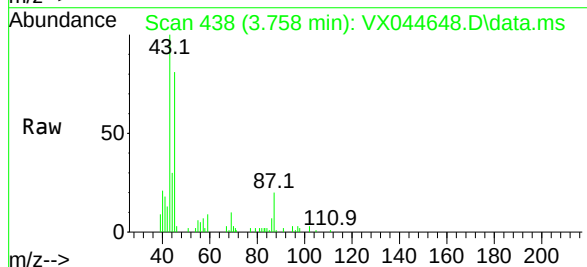
Manual Integrations
APPROVED

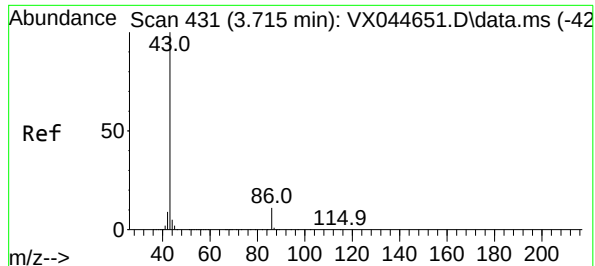
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#22
Diisopropyl ether
Concen: 1.065 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

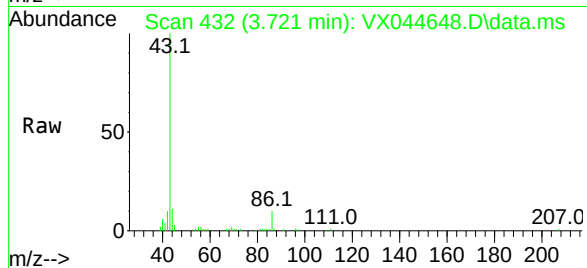
Tgt Ion: 45 Resp: 9038
Ion Ratio Lower Upper
45 100
43 106.2 61.0 91.6#
87 25.7 22.7 34.1
59 11.8 9.4 14.2





#23
Vinyl Acetate
Concen: 5.328 ug/l
RT: 3.721 min Scan# 41
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

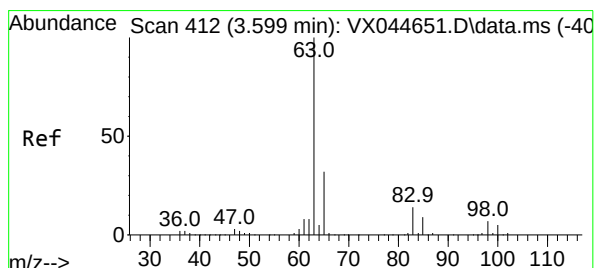
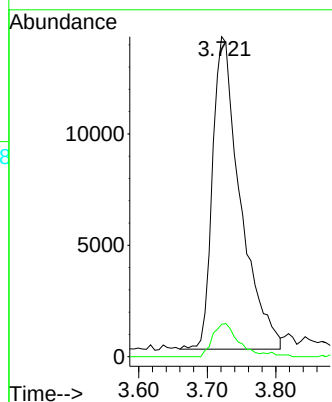
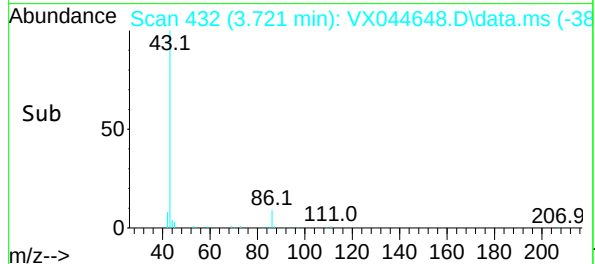
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 43 Resp: 3959
Ion Ratio Lower Upper
43 100
86 10.3 8.9 13.3

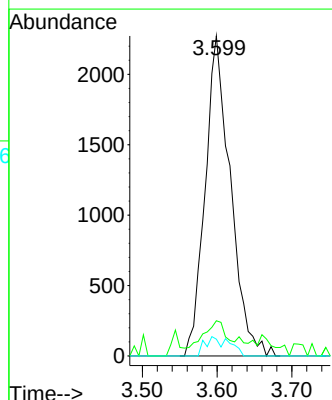
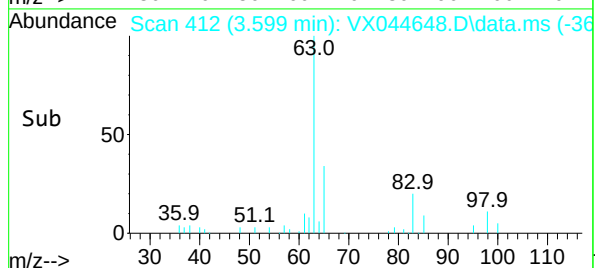
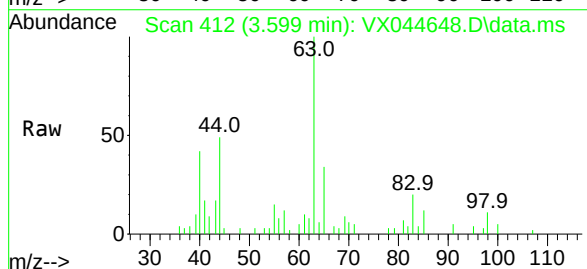
Manual Integrations
APPROVED

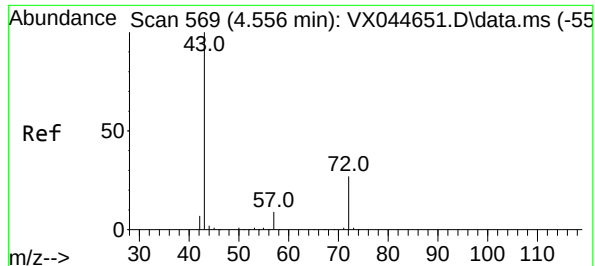
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#24
1,1-Dichloroethane
Concen: 1.064 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 63 Resp: 5359
Ion Ratio Lower Upper
63 100
98 8.4 3.6 10.9
100 5.2 2.5 7.5





#25

2-Butanone

Concen: 5.085 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 967

Ion Ratio Lower Upper

43 100

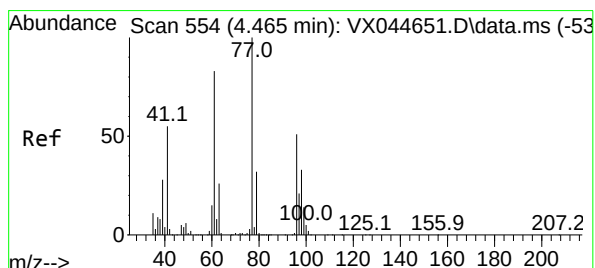
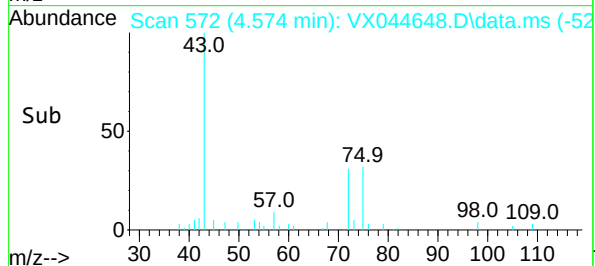
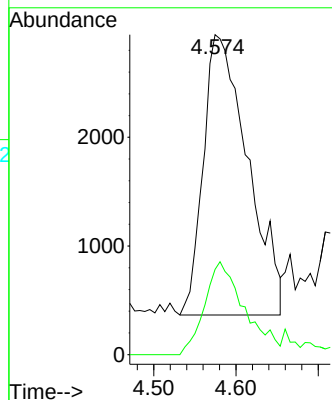
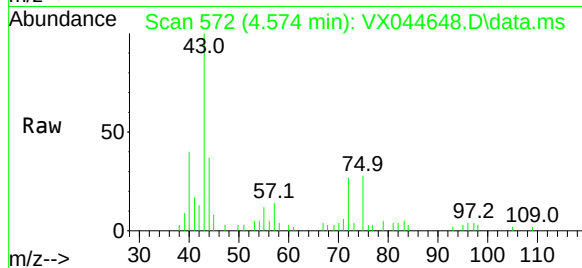
72 30.4 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#26

2,2-Dichloropropane

Concen: 1.196 ug/l

RT: 4.459 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX044648.D

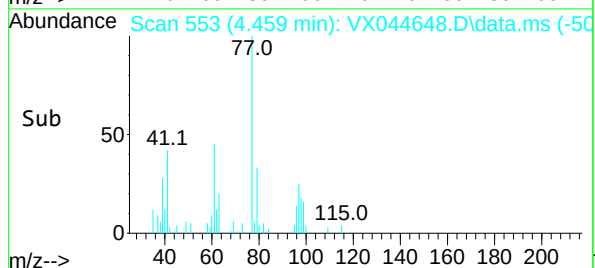
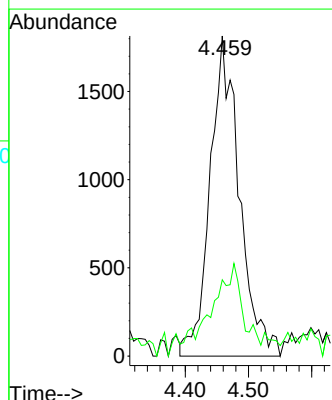
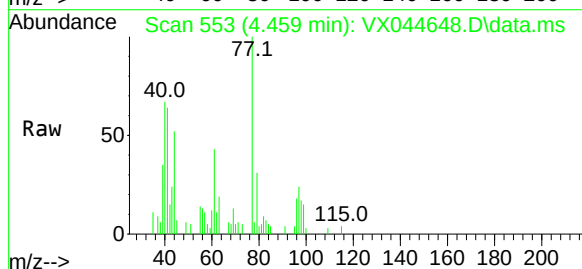
Acq: 15 Jan 2025 10:31

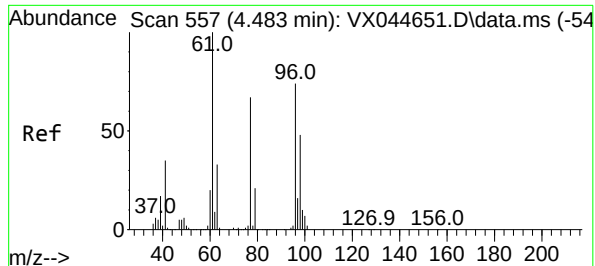
Tgt Ion: 77 Resp: 5837

Ion Ratio Lower Upper

77 100

97 24.2 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 1.223 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

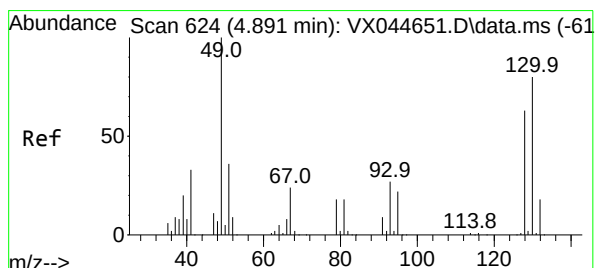
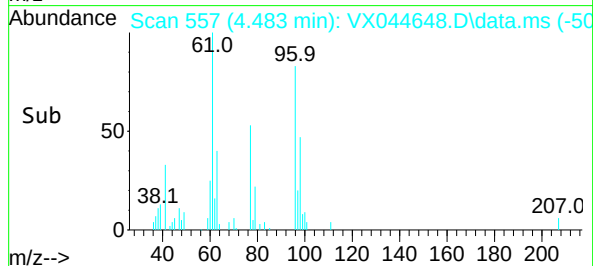
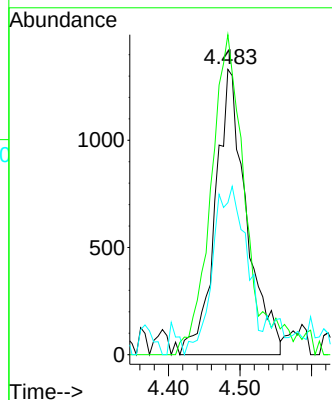
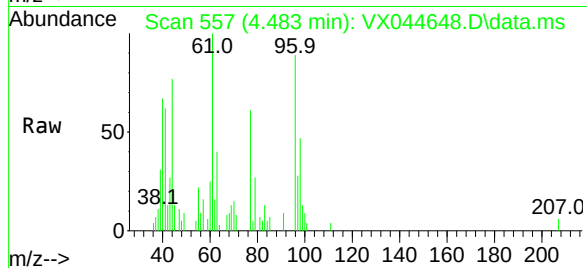
Tgt Ion: 96	Resp: 4029
Ion Ratio	Lower Upper
96 100	
61 124.2	0.0 296.0
98 64.2	0.0 130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#28

Bromochloromethane

Concen: 1.162 ug/l

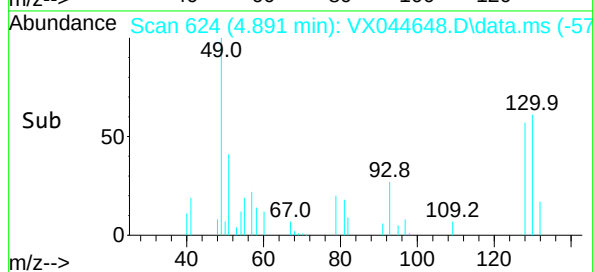
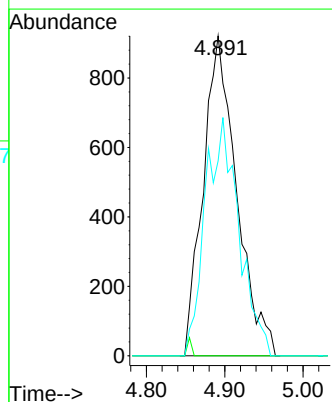
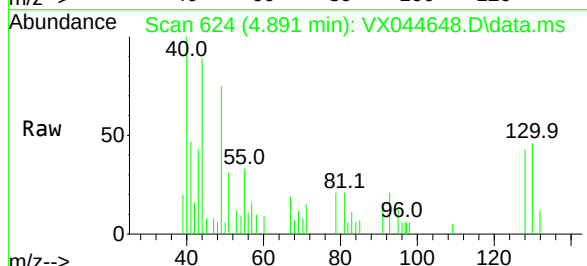
RT: 4.891 min Scan# 624

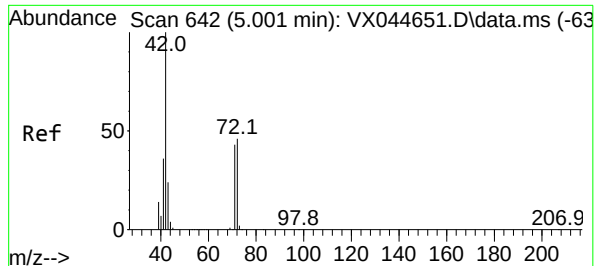
Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Tgt Ion: 49	Resp: 2733
Ion Ratio	Lower Upper
49 100	
129 0.0	0.0 4.4
130 74.9	63.4 95.2





#29

Tetrahydrofuran

Concen: 5.576 ug/l

RT: 5.019 min Scan# 642

Delta R.T. 0.018 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

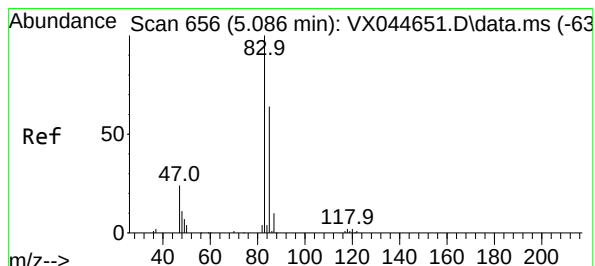
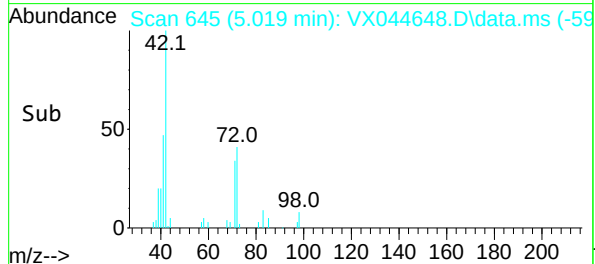
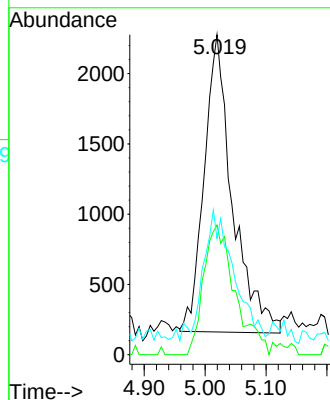
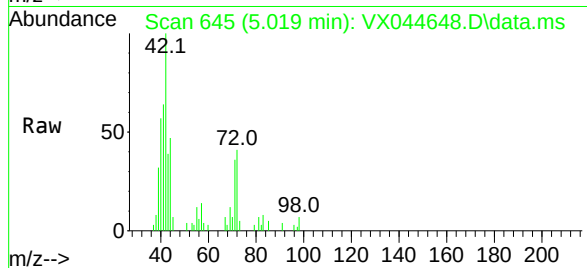
VSTDIC001

Tgt Ion:	42	Resp:	684
Ion	Ratio	Lower	Upper
42	100		
72	48.2	38.2	57.4
71	46.5	35.3	52.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#30

Chloroform

Concen: 1.063 ug/l

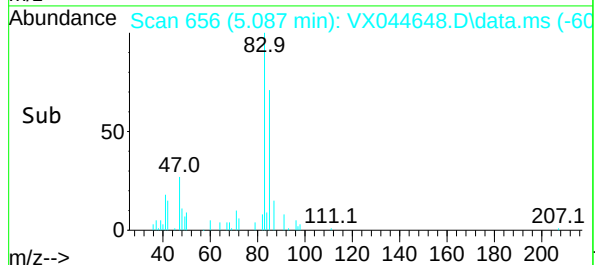
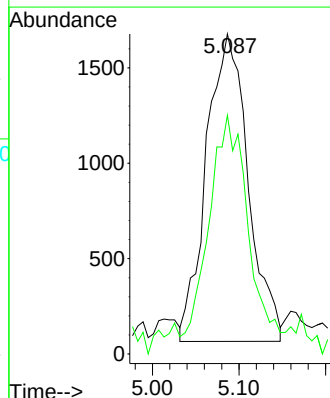
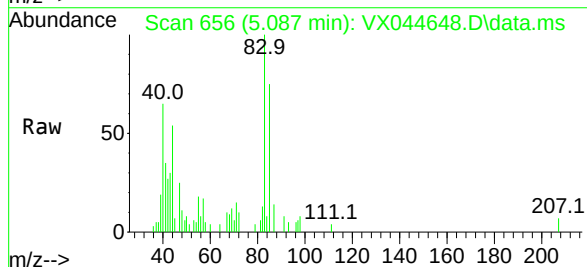
RT: 5.087 min Scan# 656

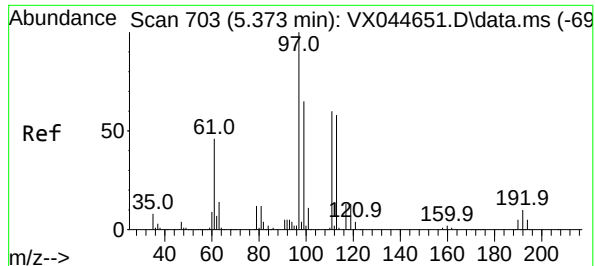
Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Tgt Ion:	83	Resp:	5401
Ion	Ratio	Lower	Upper
83	100		
85	75.4	51.2	76.8





#32

1,1,1-Trichloroethane

Concen: 1.278 ug/l

RT: 5.379 min Scan# 70

Delta R.T. 0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 97 Resp: 596

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4

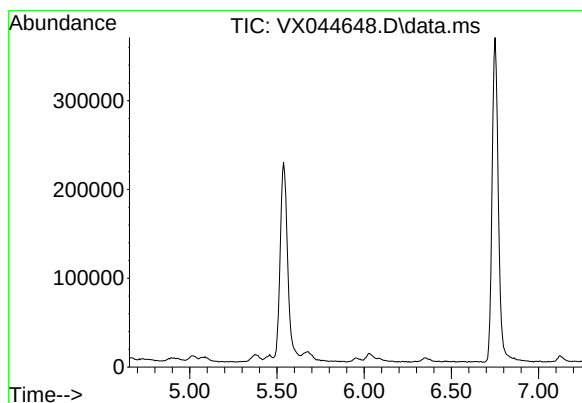
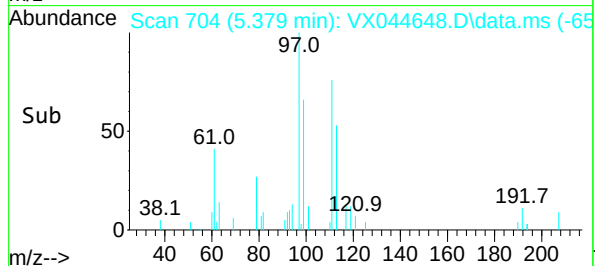
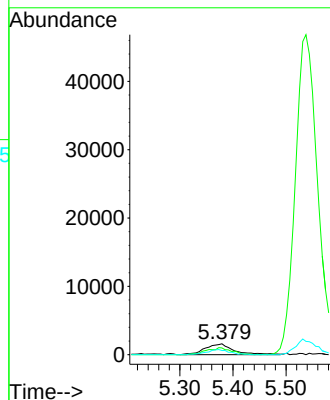
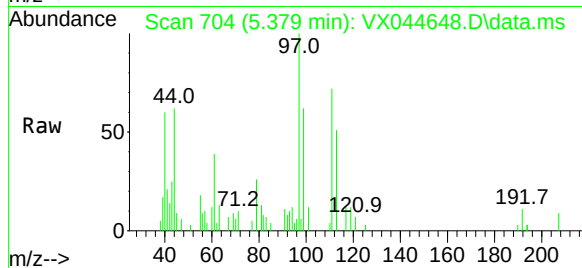
61 37.6 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.95 min

Lab File: VX044648.D

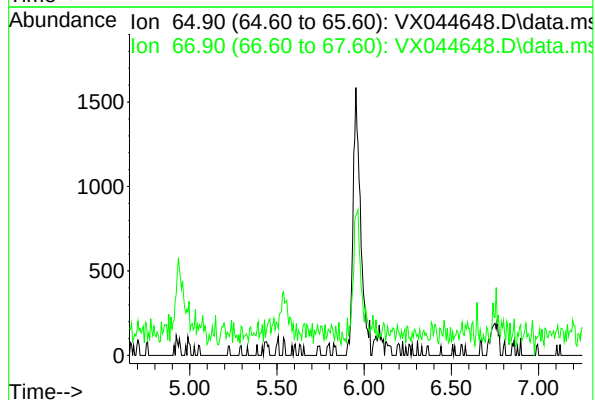
Acq: 15 Jan 2025 10:31

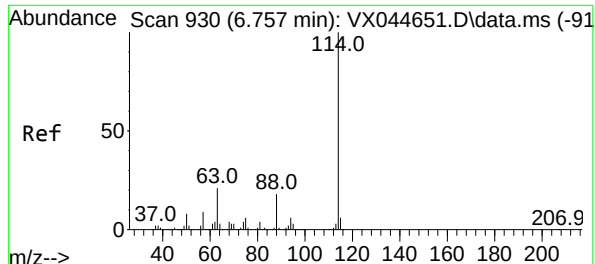
Tgt Ion: 65

Sig Exp Ratio

65 100

67 51.7





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:114 Resp: 38945

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.0

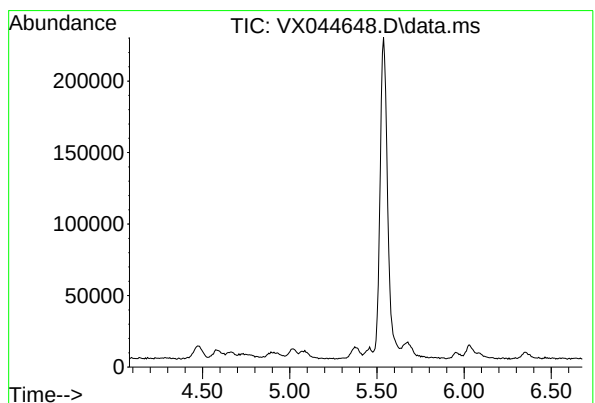
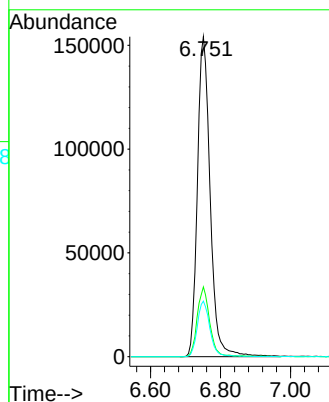
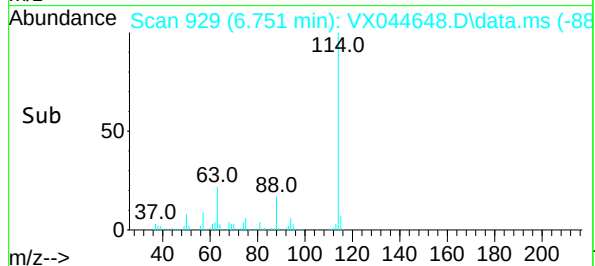
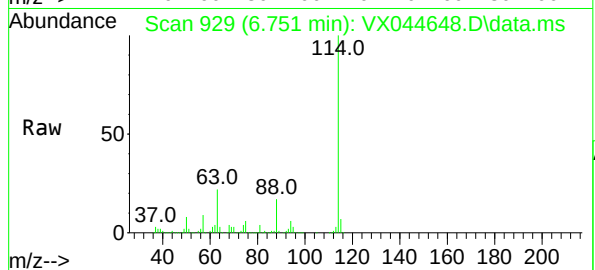
88 17.4 0.0 35.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.38 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

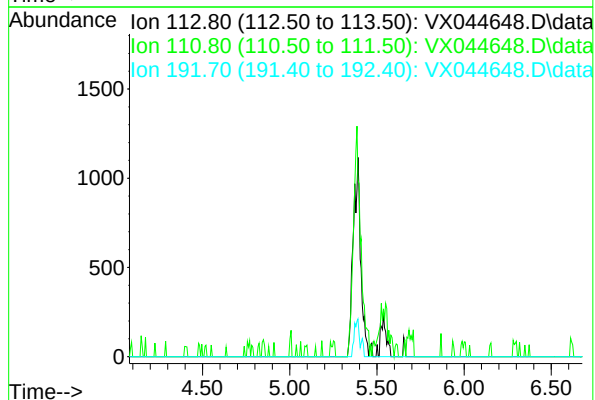
Tgt Ion: 113

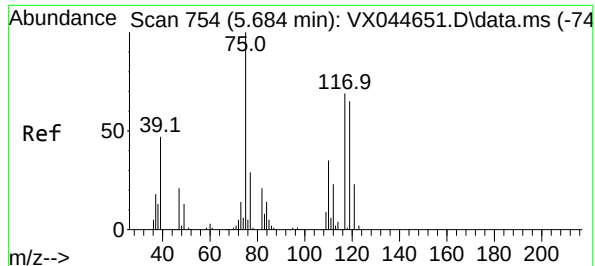
Sig Exp Ratio

113 100

111 102.0

192 18.0





#36

1,1-Dichloropropene

Concen: 1.232 ug/l

RT: 5.678 min Scan# 754

Delta R.T. -0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 424

Ion Ratio Lower Upper

75 100

110 34.5 17.9 53.8

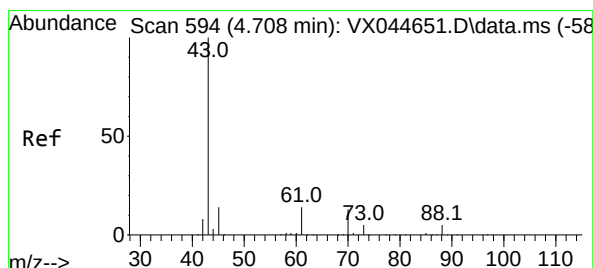
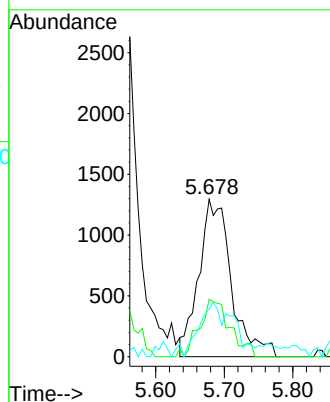
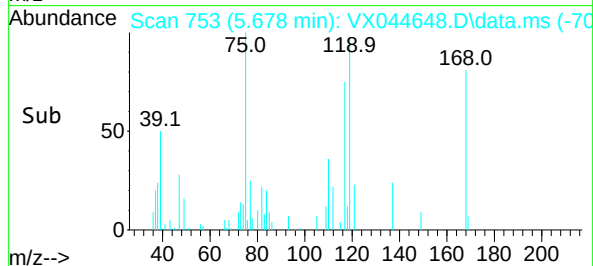
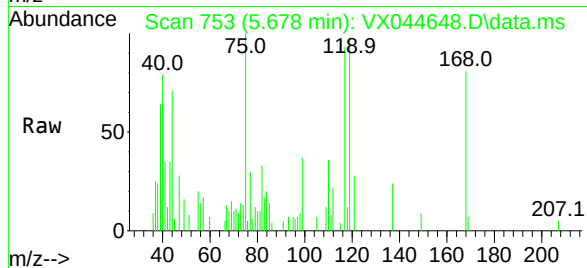
77 22.1 24.5 36.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#37

Ethyl Acetate

Concen: 0.891 ug/l

RT: 4.727 min Scan# 597

Delta R.T. 0.019 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

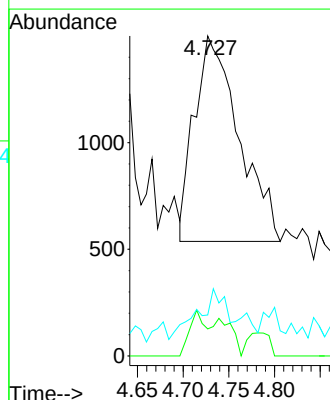
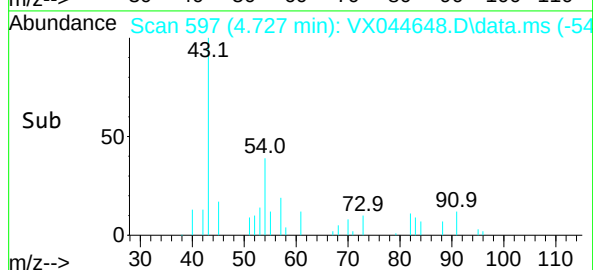
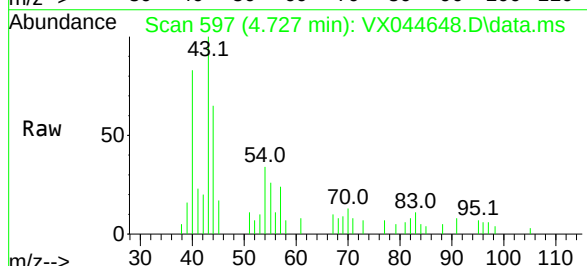
Tgt Ion: 43 Resp: 3269

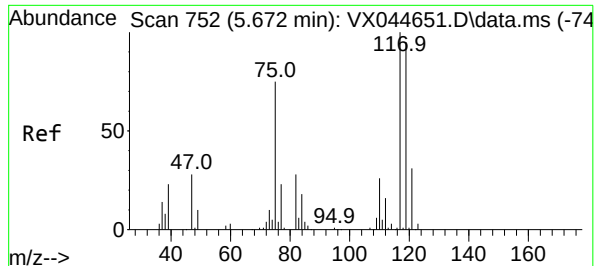
Ion Ratio Lower Upper

43 100

61 7.9 10.9 16.3#

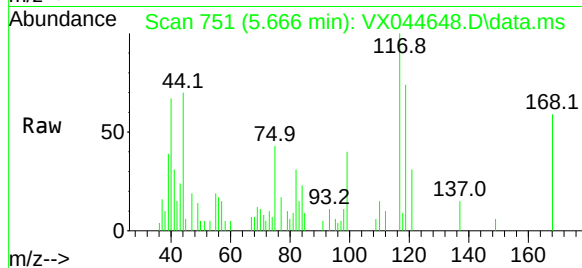
70 16.0 10.1 15.1#





#38
Carbon Tetrachloride
Concen: 1.177 ug/l
RT: 5.666 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

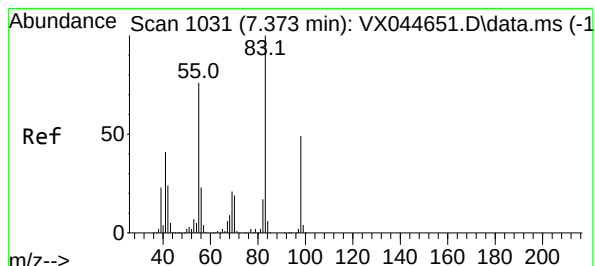
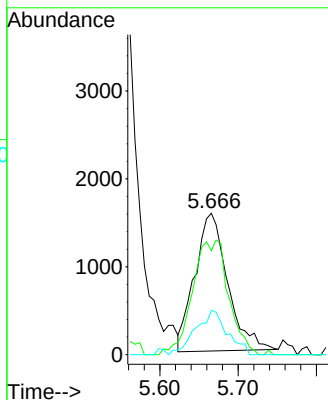
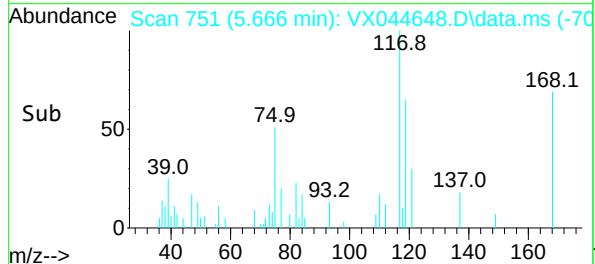
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 117 Resp: 4558
Ion Ratio Lower Upper
117 100
119 76.4 76.0 114.0
121 32.5 24.6 36.8

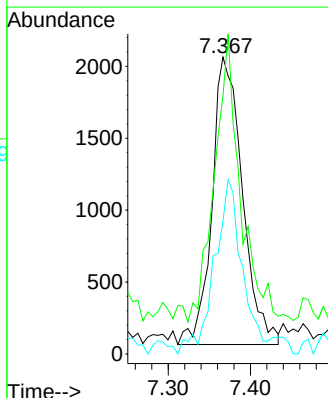
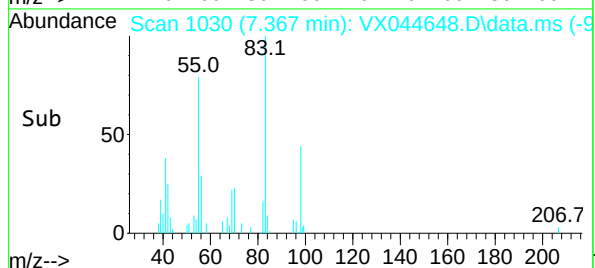
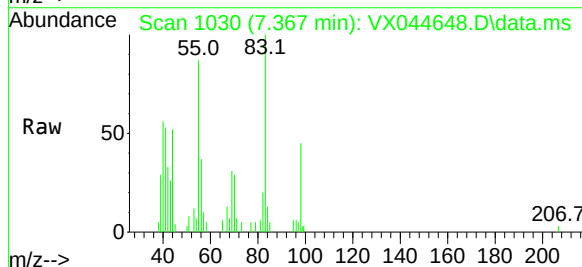
Manual Integrations
APPROVED

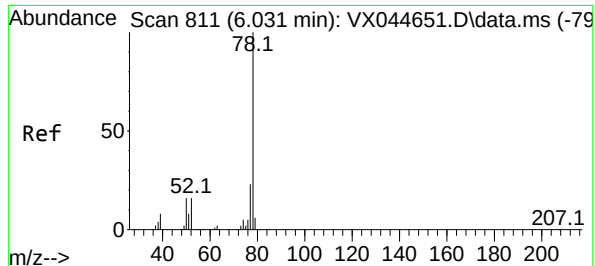
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#39
Methylcyclohexane
Concen: 1.128 ug/l
RT: 7.367 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 83 Resp: 5156
Ion Ratio Lower Upper
83 100
55 76.8 60.5 90.7
98 46.4 39.0 58.4





#40

Benzene

Concen: 1.107 ug/l

RT: 6.025 min Scan# 811

Delta R.T. -0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 1181

Ion Ratio Lower Upper

78 100

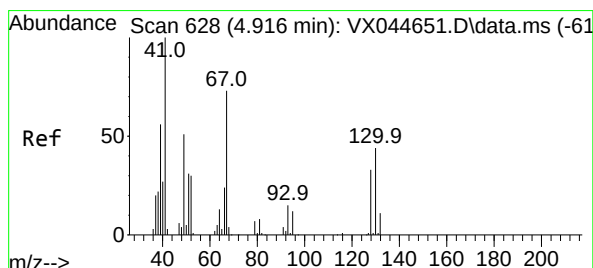
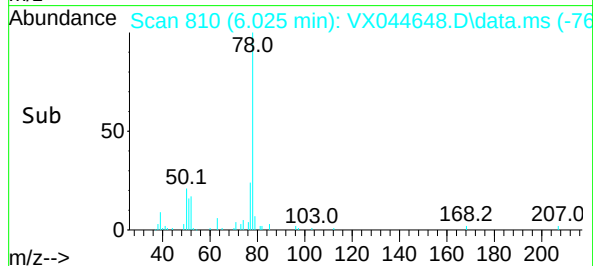
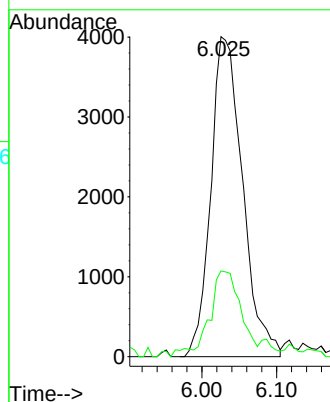
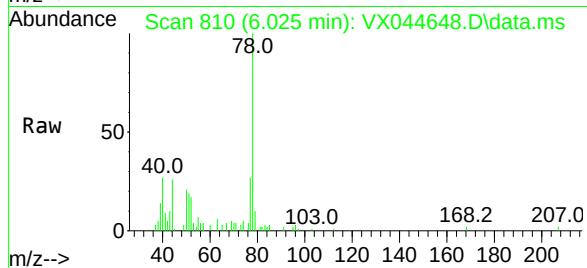
77 25.1 18.7 28.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#41

Methacrylonitrile

Concen: 1.146 ug/l m

RT: 4.928 min Scan# 630

Delta R.T. 0.012 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Tgt Ion: 41 Resp: 2415

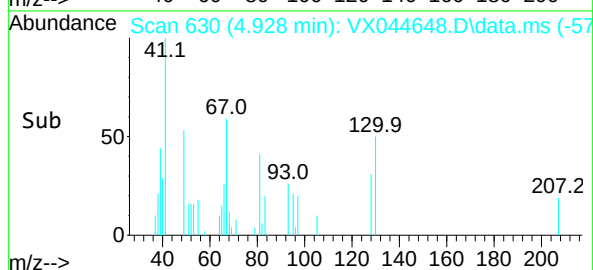
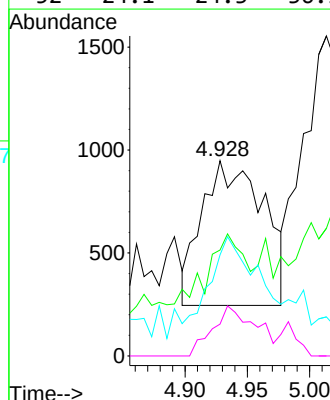
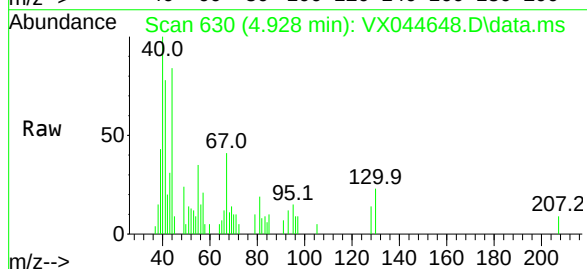
Ion Ratio Lower Upper

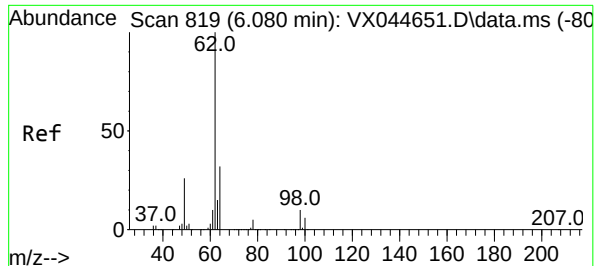
41 100

39 28.4 44.4 66.6#

67 60.1 60.6 90.8#

52 24.1 24.3 36.5#





#42

1,2-Dichloroethane

Concen: 1.104 ug/l

RT: 6.092 min Scan# 819

Delta R.T. 0.012 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 62 Resp: 4299

Ion Ratio Lower Upper

62 100

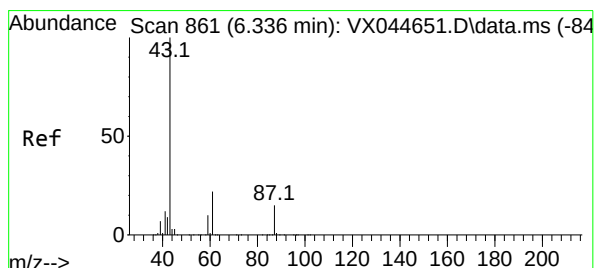
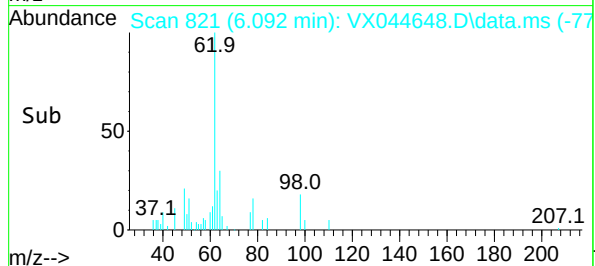
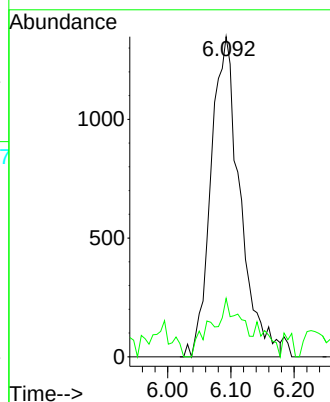
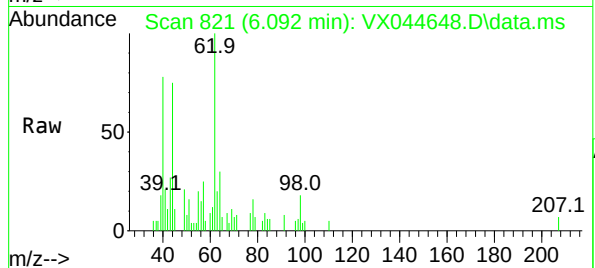
98 13.1 0.0 19.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#43

Isopropyl Acetate

Concen: 1.132 ug/l

RT: 6.355 min Scan# 864

Delta R.T. 0.018 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

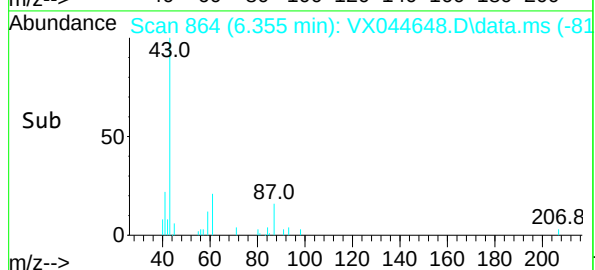
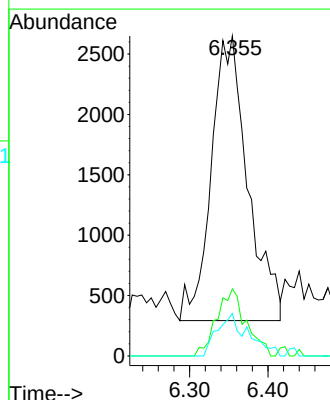
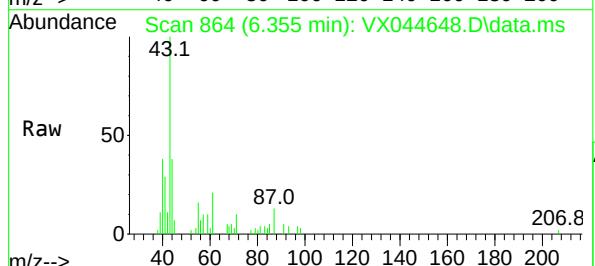
Tgt Ion: 43 Resp: 7640

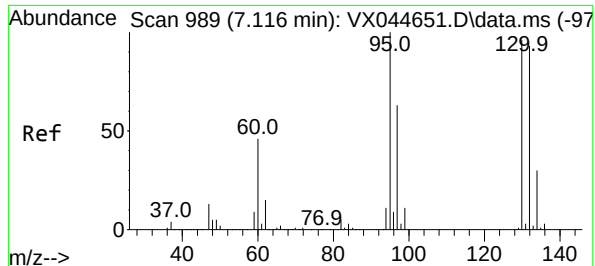
Ion Ratio Lower Upper

43 100

61 18.9 16.6 24.8

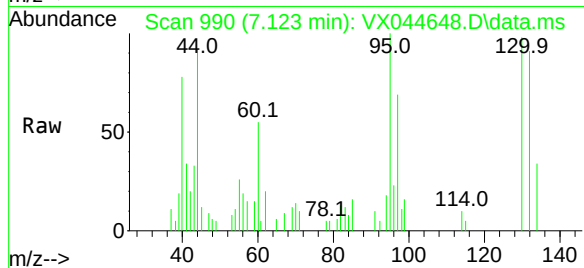
87 12.6 11.0 16.6





#44
Trichloroethene
Concen: 1.026 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

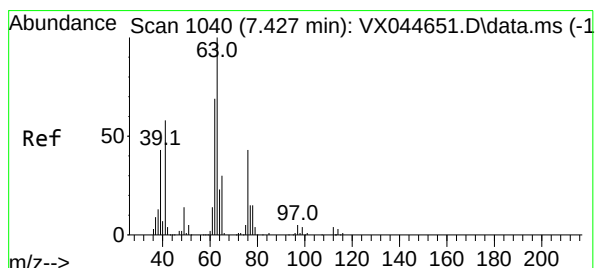
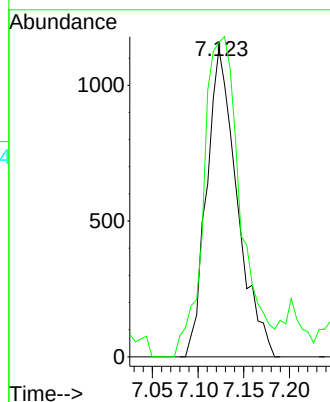
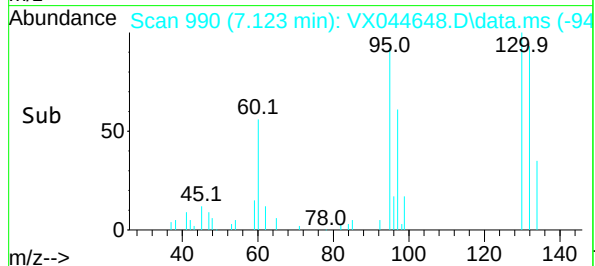
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



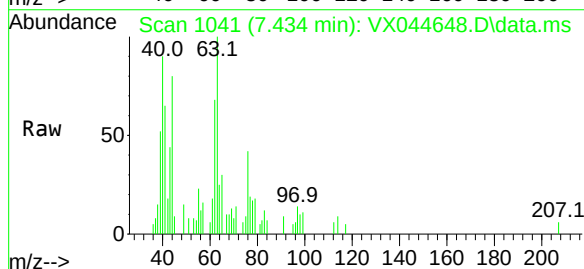
Tgt Ion:130 Resp: 263
Ion Ratio Lower Upper
130 100
95 95.2 0.0 208.2

Manual Integrations
APPROVED

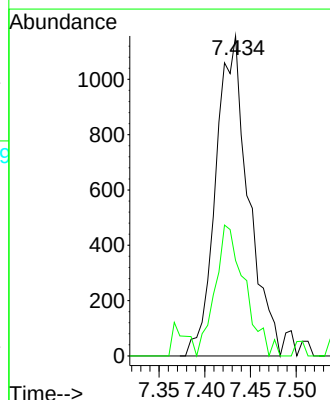
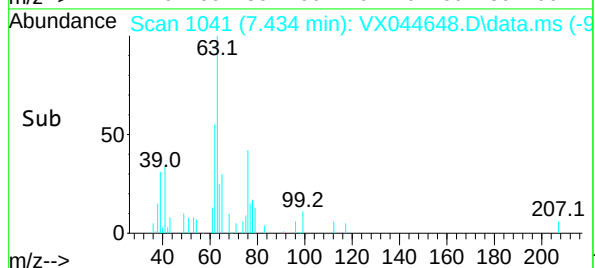
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

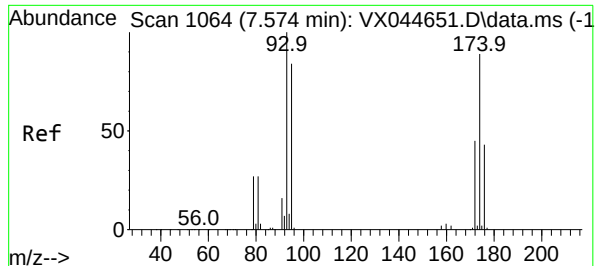


#45
1,2-Dichloropropane
Concen: 1.064 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31



Tgt Ion: 63 Resp: 2857
Ion Ratio Lower Upper
63 100
65 29.8 24.2 36.2





#46

Dibromomethane

Concen: 1.143 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

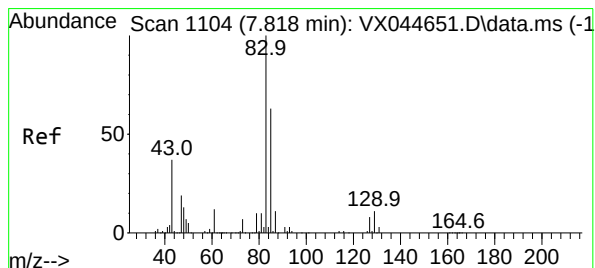
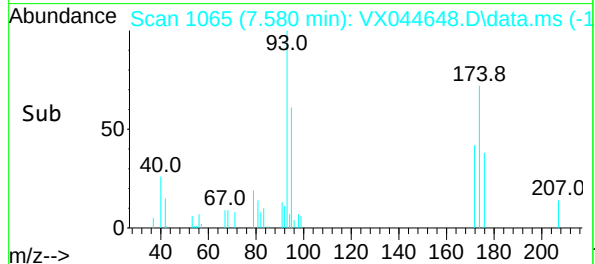
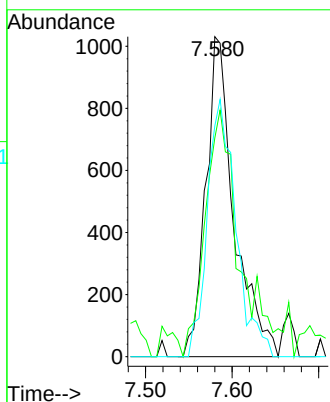
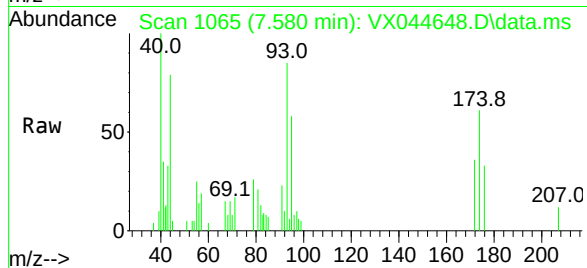
VSTDIC001

Tgt Ion:	93	Resp:	233
Ion	Ratio	Lower	Upper
93	100		
95	81.0	66.4	99.6
174	81.3	72.0	108.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#47

Bromodichloromethane

Concen: 1.177 ug/l

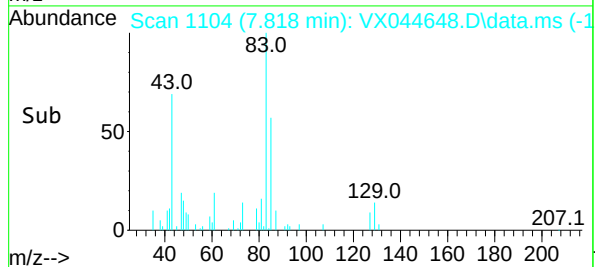
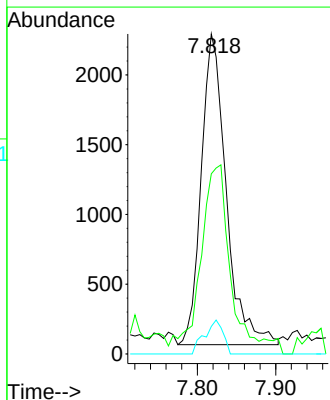
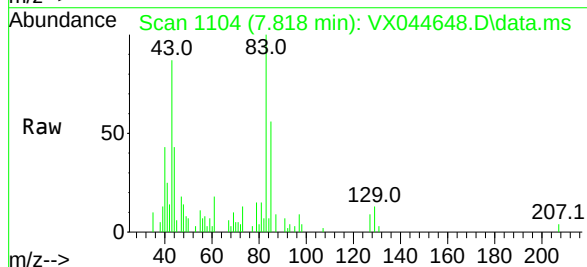
RT: 7.818 min Scan# 1104

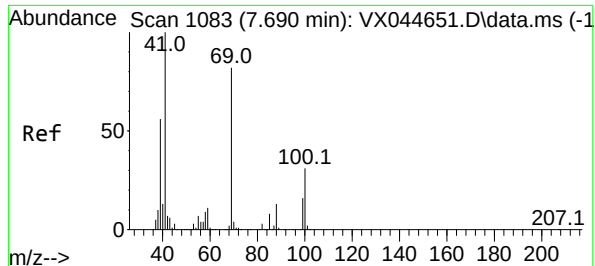
Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Tgt Ion:	83	Resp:	4937
Ion	Ratio	Lower	Upper
83	100		
85	53.1	50.1	75.1
127	8.8	6.5	9.7





#48

Methyl methacrylate

Concen: 0.967 ug/l

RT: 7.702 min Scan# 1085

Delta R.T. 0.012 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

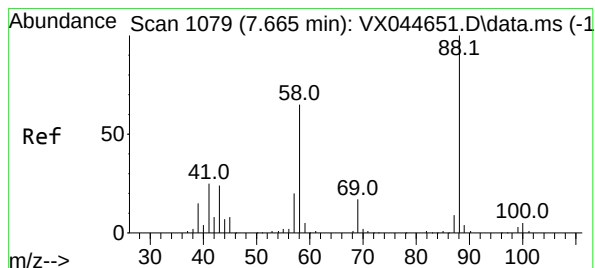
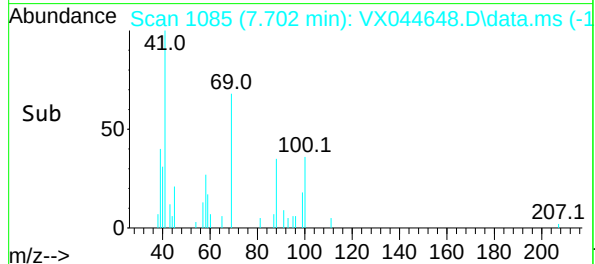
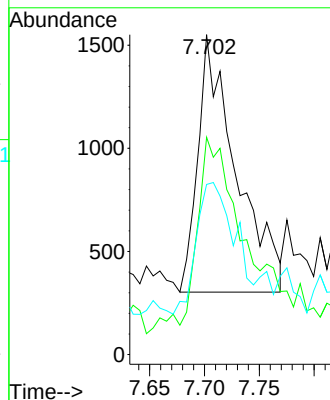
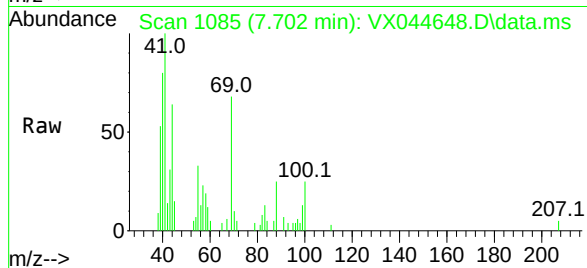
Tgt Ion:	41	Resp:	3029
Ion	Ratio	Lower	Upper
41	100		
69	91.2	66.8	100.2
39	51.7	47.4	71.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#49

1,4-Dioxane

Concen: 22.727 ug/l

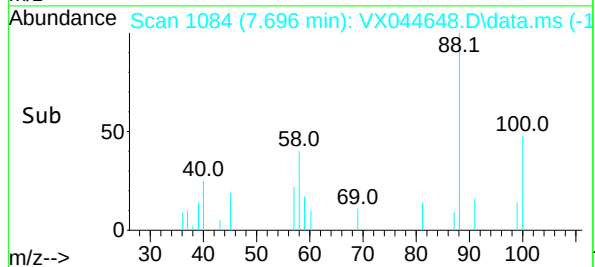
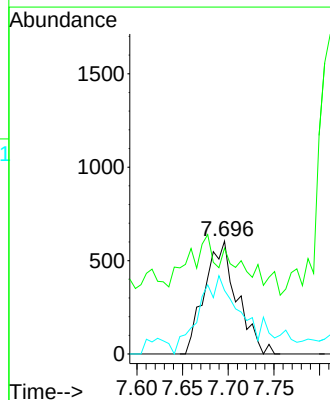
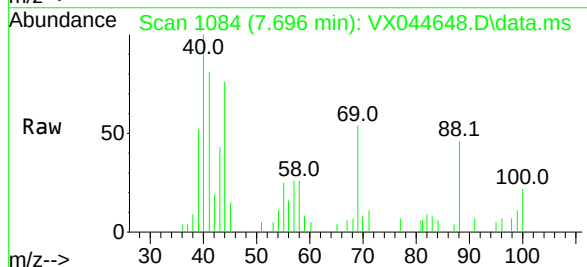
RT: 7.696 min Scan# 1084

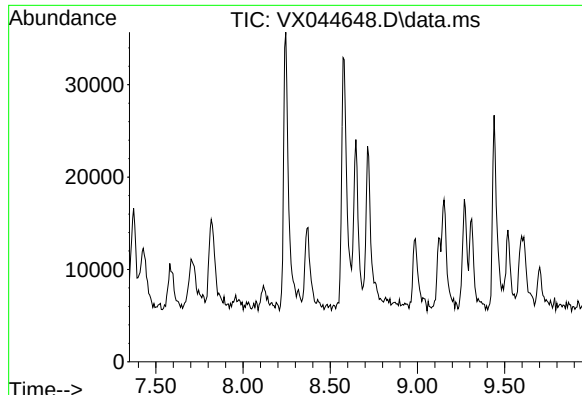
Delta R.T. 0.031 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Tgt Ion:	88	Resp:	1485
Ion	Ratio	Lower	Upper
88	100		
43	33.9	27.0	40.4
58	85.0	55.8	83.8





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.65 min

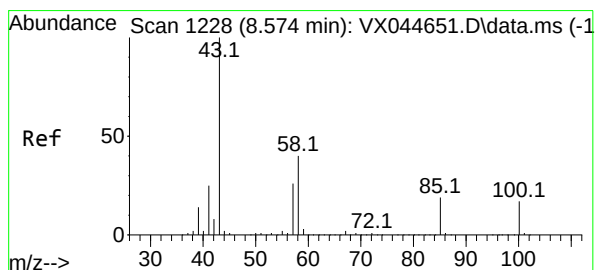
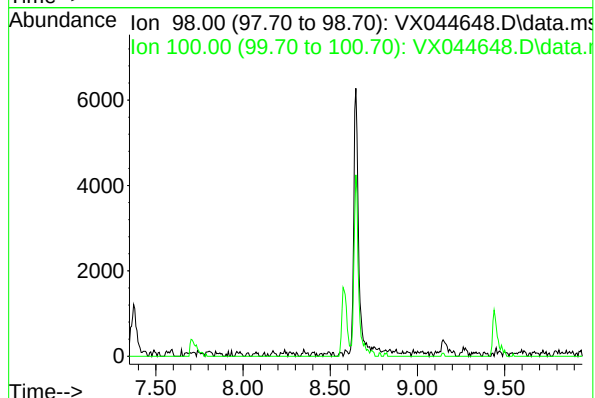
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 98
Sig Exp Ratio
98 100
100 66.5

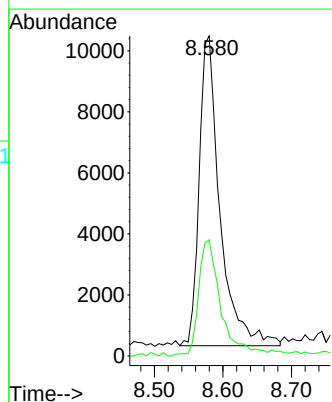
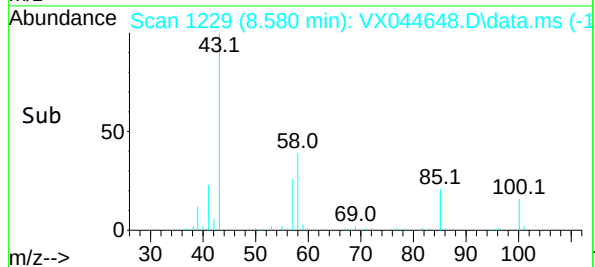
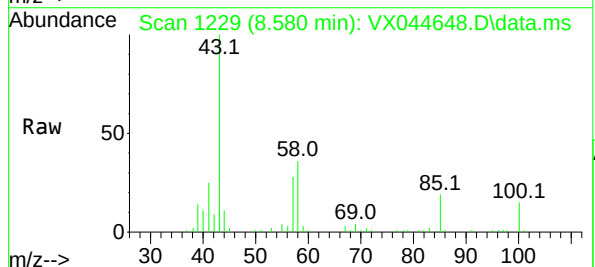
Manual Integrations
APPROVED

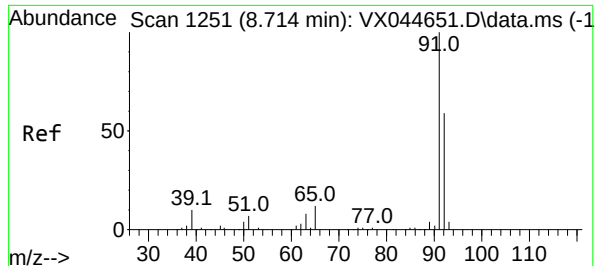
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#51
4-Methyl-2-Pentanone
Concen: 5.736 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 21388
Ion Ratio Lower Upper
43 100
58 40.0 31.9 47.9





#52

Toluene

Concen: 1.122 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 733

Ion Ratio Lower Upper

92 100

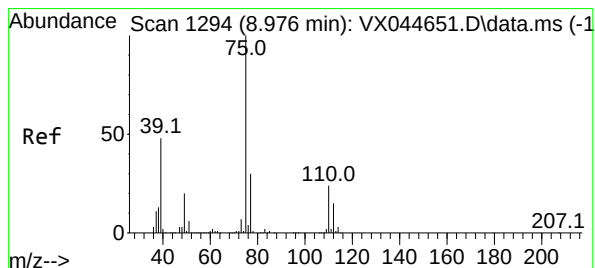
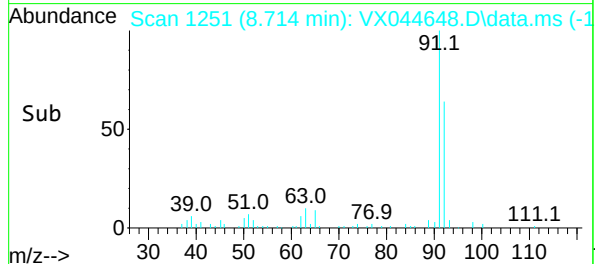
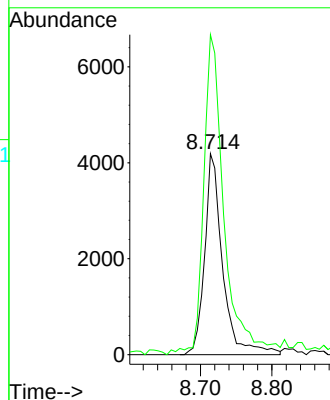
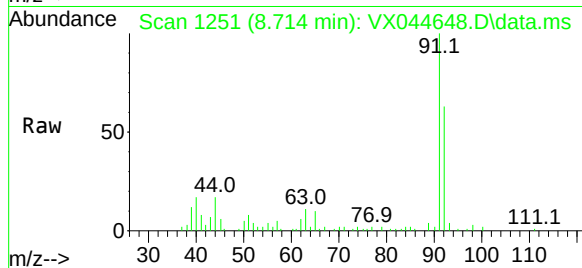
91 178.6 135.7 203.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#53

t-1,3-Dichloropropene

Concen: 1.038 ug/l

RT: 8.982 min Scan# 1295

Delta R.T. 0.006 min

Lab File: VX044648.D

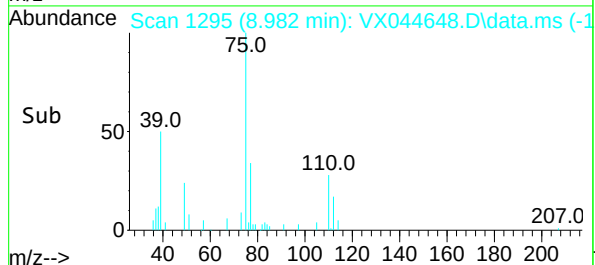
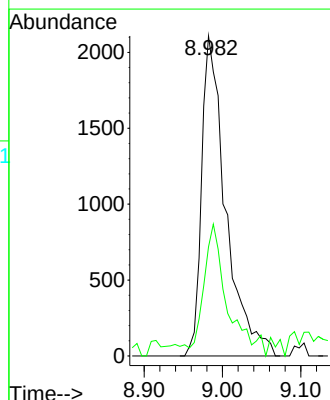
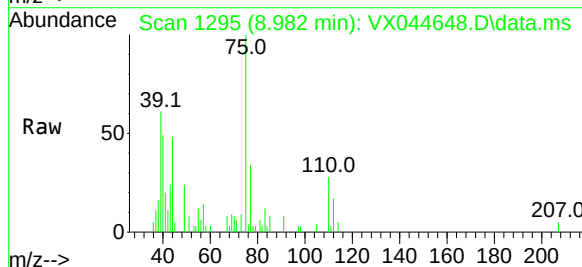
Acq: 15 Jan 2025 10:31

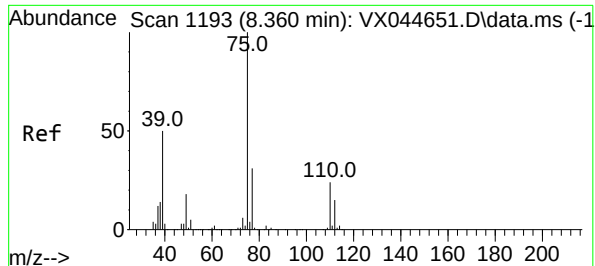
Tgt Ion: 75 Resp: 4499

Ion Ratio Lower Upper

75 100

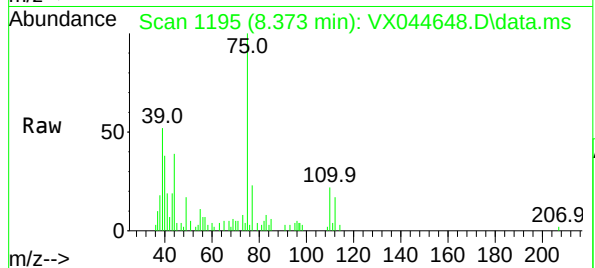
77 31.1 24.4 36.6





#54
cis-1,3-Dichloropropene
Concen: 1.134 ug/l
RT: 8.373 min Scan# 1195
Delta R.T. 0.012 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

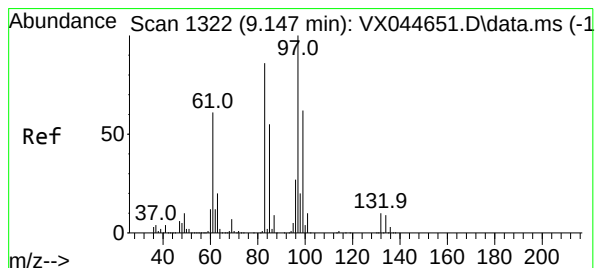
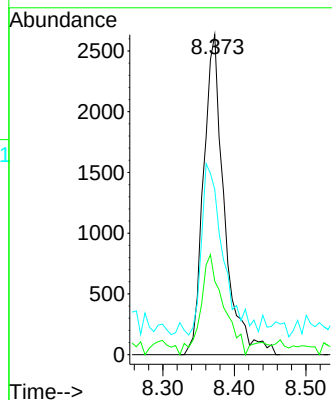
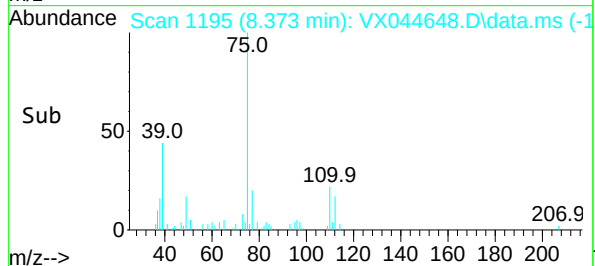
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 75 Resp: 5328
Ion Ratio Lower Upper
75 100
77 23.0 25.1 37.7
39 42.1 40.3 60.5

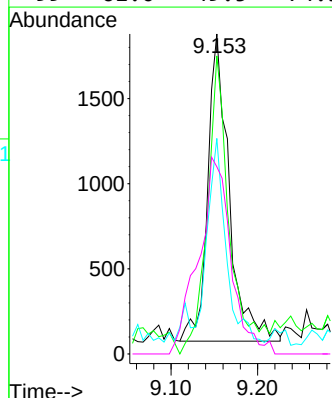
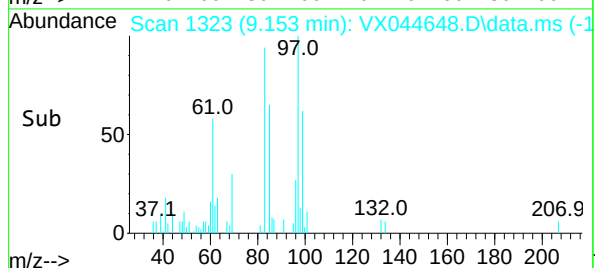
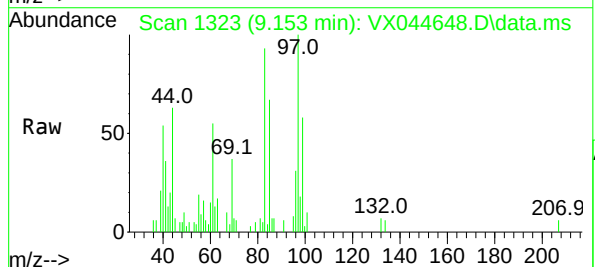
Manual Integrations
APPROVED

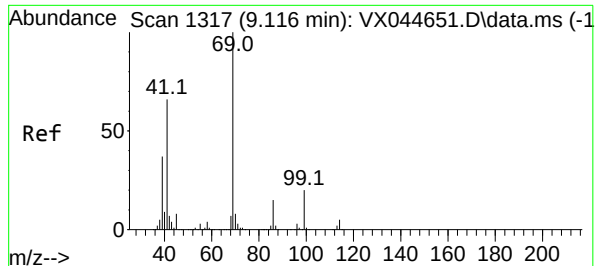
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#55
1,1,2-Trichloroethane
Concen: 1.182 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 97 Resp: 3124
Ion Ratio Lower Upper
97 100
83 97.1 68.8 103.2
85 63.4 43.7 65.5
99 61.0 49.5 74.3





#56

Ethyl methacrylate

Concen: 1.099 ug/l

RT: 9.122 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

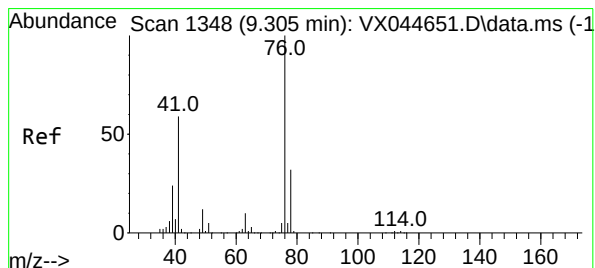
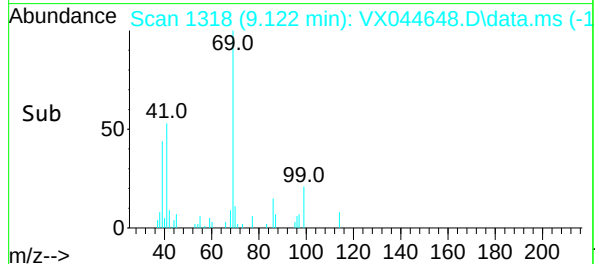
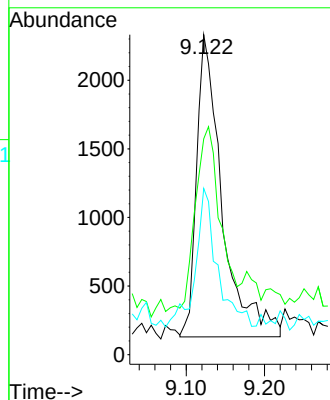
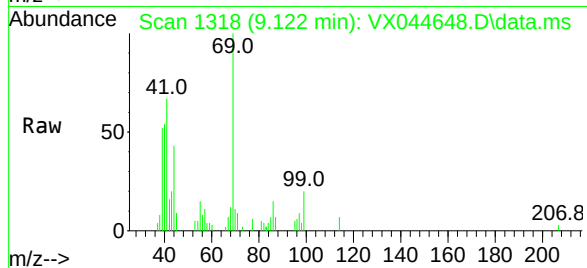
Tgt Ion:	69	Resp:	4994
Ion	Ratio	Lower	Upper
69	100		
41	56.4	53.2	79.8
39	41.7	30.2	45.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#57

1,3-Dichloropropane

Concen: 1.128 ug/l

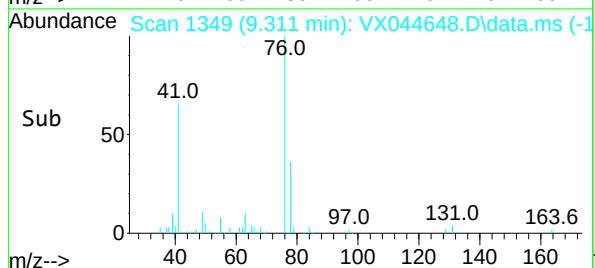
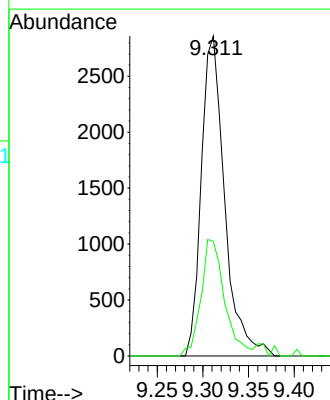
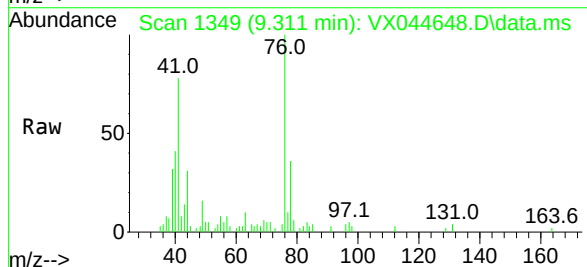
RT: 9.311 min Scan# 1349

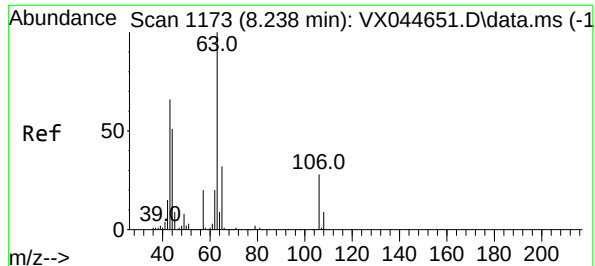
Delta R.T. 0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Tgt Ion:	76	Resp:	5078
Ion	Ratio	Lower	Upper
76	100		
78	36.9	26.0	39.0





#58

2-Chloroethyl Vinyl ether

Concen: 6.581 ug/l

RT: 8.245 min Scan# 1173

Delta R.T. 0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 63 Resp: 1468

Ion Ratio Lower Upper

63 100

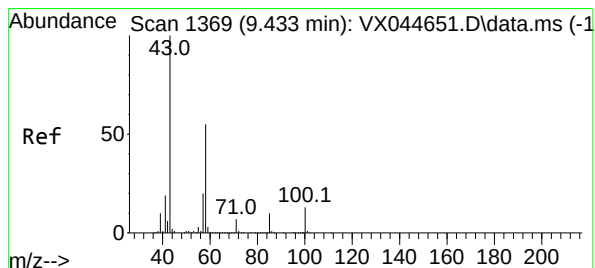
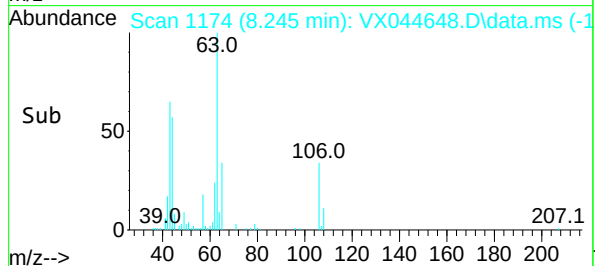
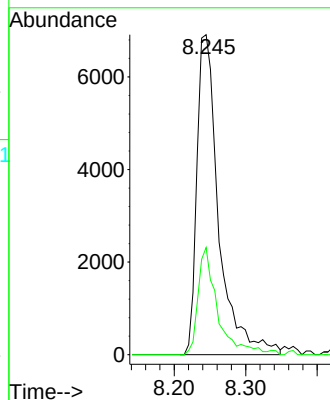
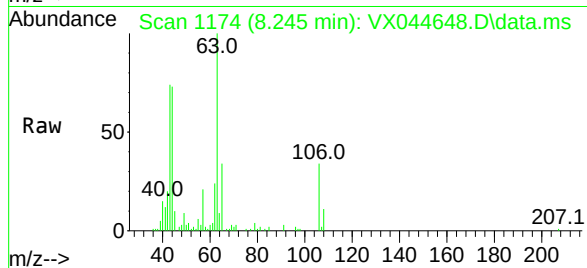
106 29.8 23.0 34.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#59

2-Hexanone

Concen: 5.643 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.006 min

Lab File: VX044648.D

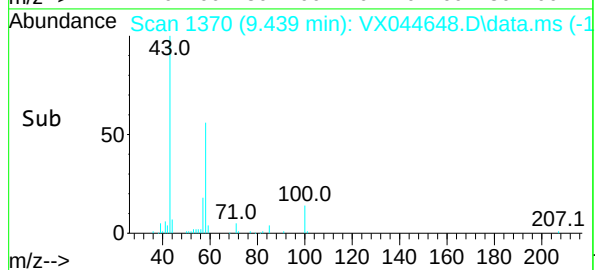
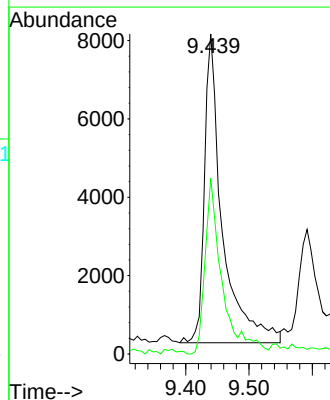
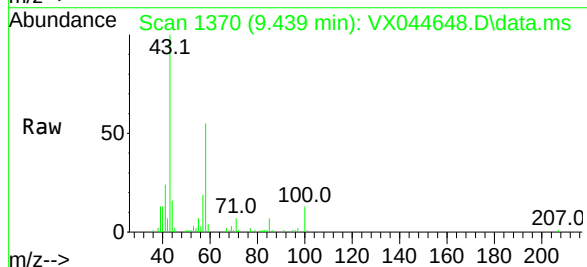
Acq: 15 Jan 2025 10:31

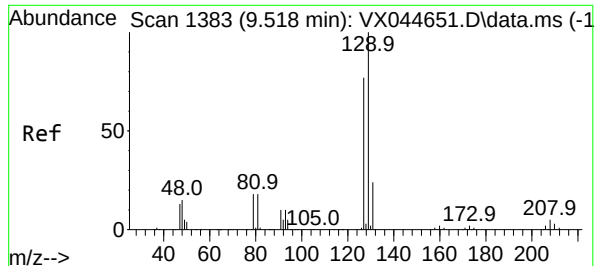
Tgt Ion: 43 Resp: 15480

Ion Ratio Lower Upper

43 100

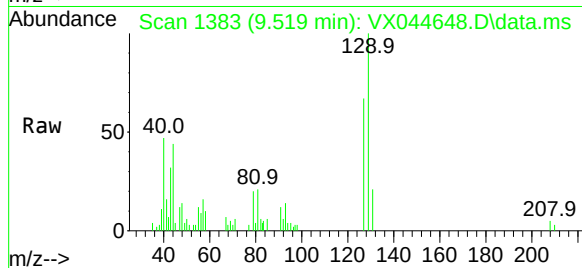
58 54.4 27.8 83.3





#60
Dibromochloromethane
Concen: 1.127 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

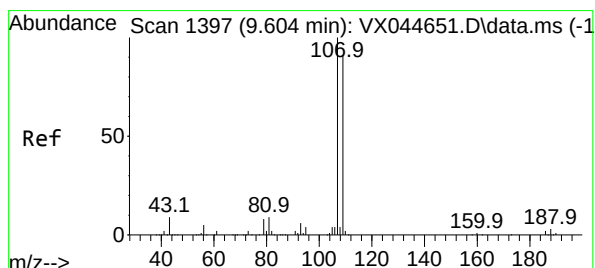
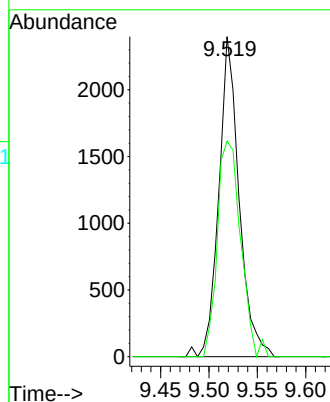
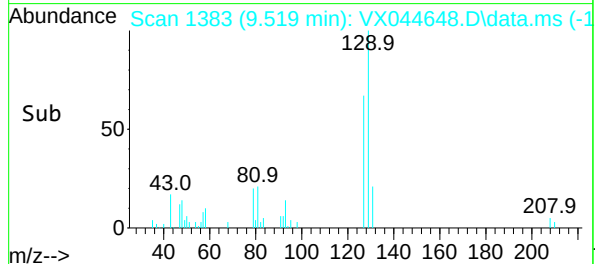
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:129 Resp: 349
Ion Ratio Lower Upper
129 100
127 77.3 38.5 115.5

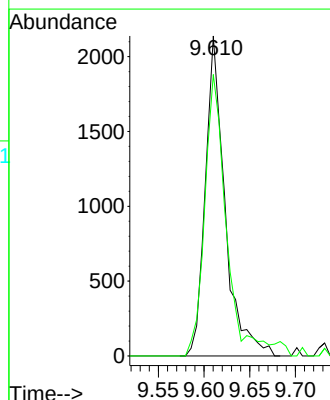
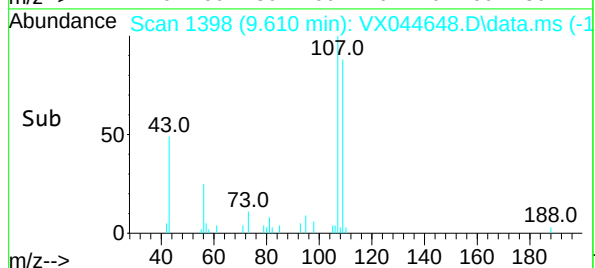
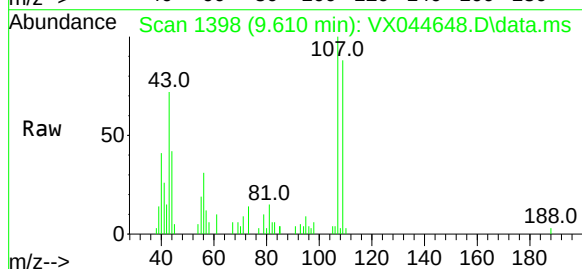
Manual Integrations
APPROVED

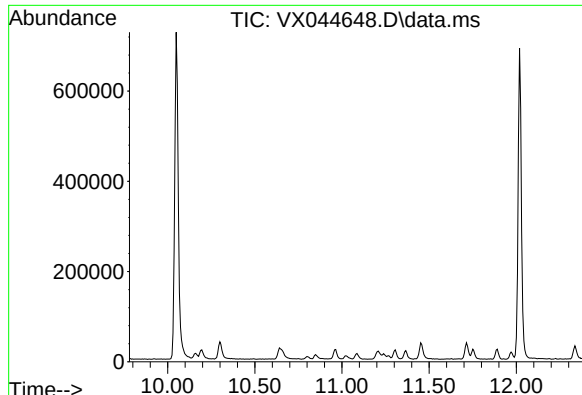
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#61
1,2-Dibromoethane
Concen: 1.155 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:107 Resp: 3200
Ion Ratio Lower Upper
107 100
109 98.2 75.3 112.9





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.08 min

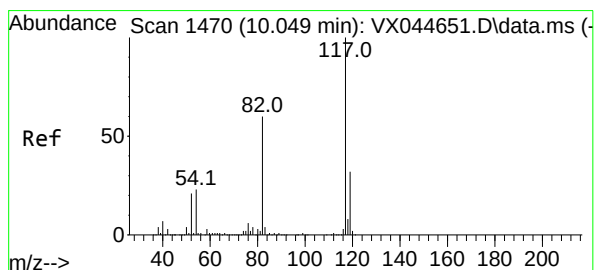
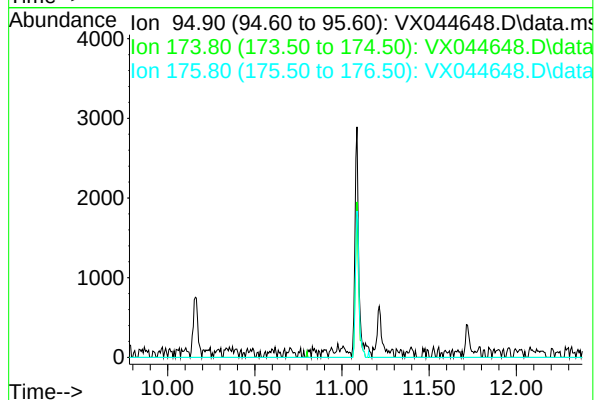
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 95
Sig Exp Ratio
95 100
174 66.5
176 64.7

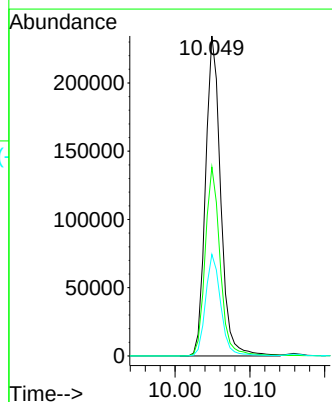
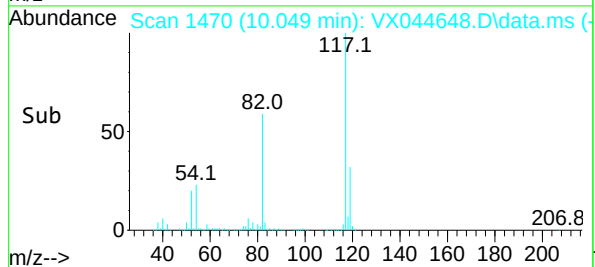
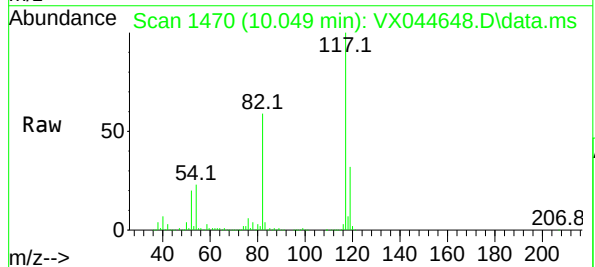
Manual Integrations
APPROVED

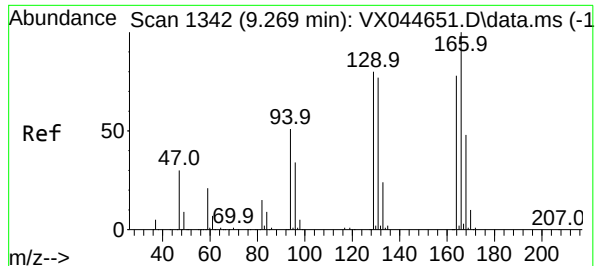
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

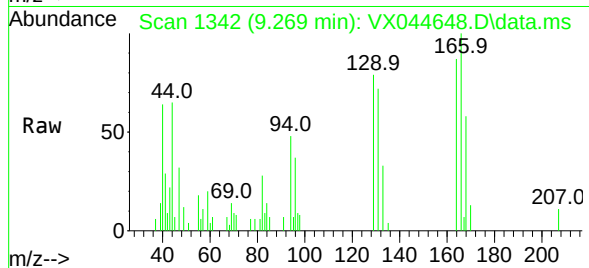
Tgt Ion:117 Resp: 329917
Ion Ratio Lower Upper
117 100
82 59.0 47.6 71.4
119 31.7 25.4 38.2





#64
Tetrachloroethene
Concen: 1.101 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

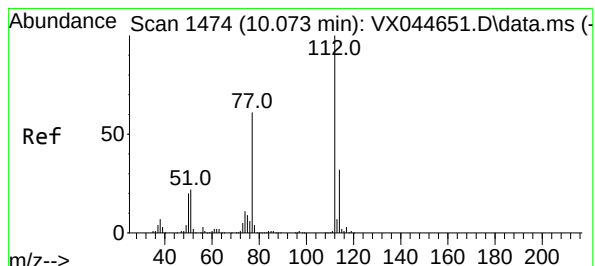
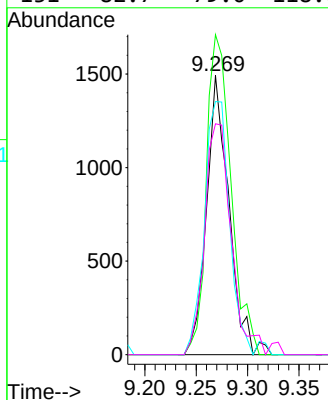
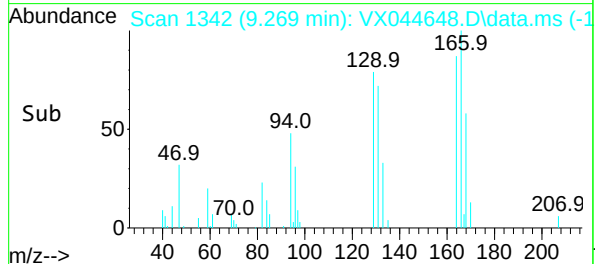
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:164 Resp: 2280
Ion Ratio Lower Upper
164 100
166 114.6 102.0 153.0
129 90.7 81.1 121.7
131 82.7 79.0 118.6

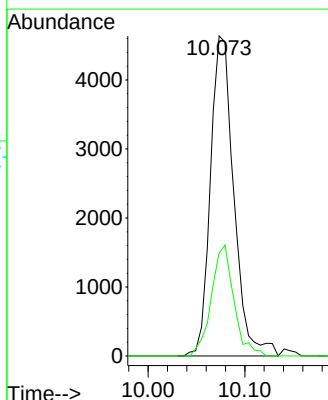
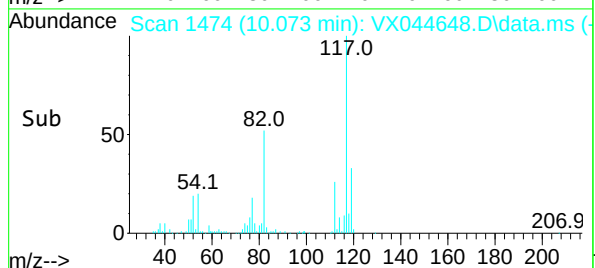
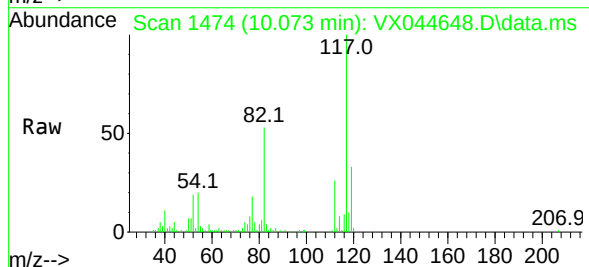
Manual Integrations
APPROVED

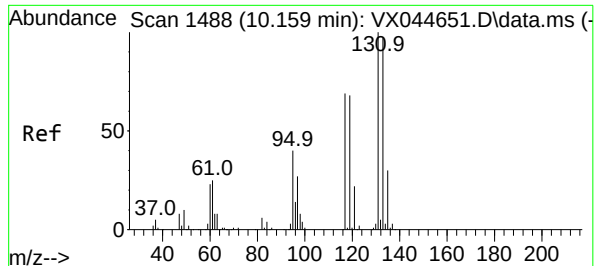
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#65
Chlorobenzene
Concen: 1.109 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

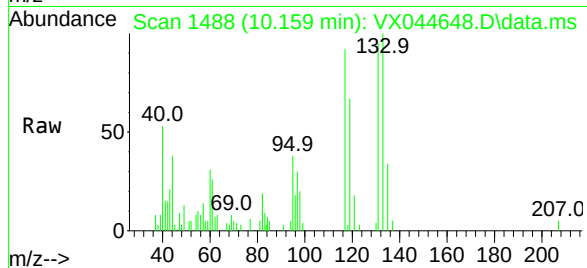
Tgt Ion:112 Resp: 7770
Ion Ratio Lower Upper
112 100
114 32.2 25.3 37.9





#66
1,1,1,2-Tetrachloroethane
Concen: 1.087 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

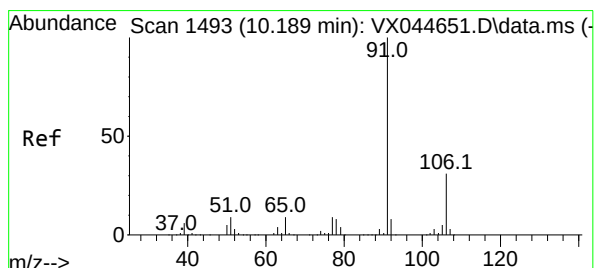
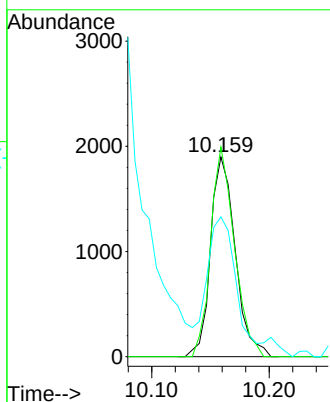
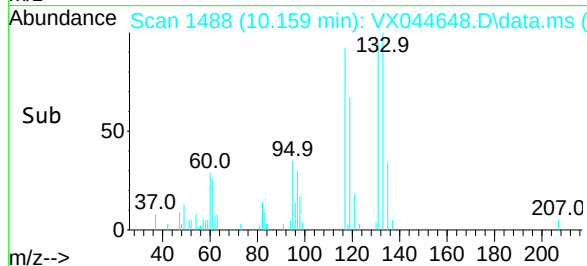
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:131 Resp: 2769
Ion Ratio Lower Upper
131 100
133 100.8 47.8 143.3
119 0.0 33.4 100.2

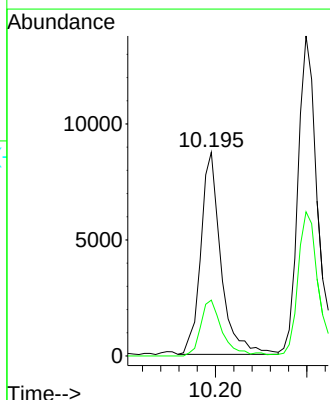
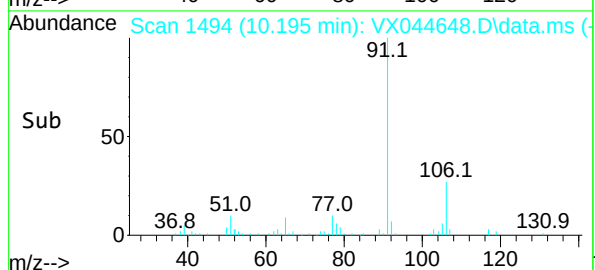
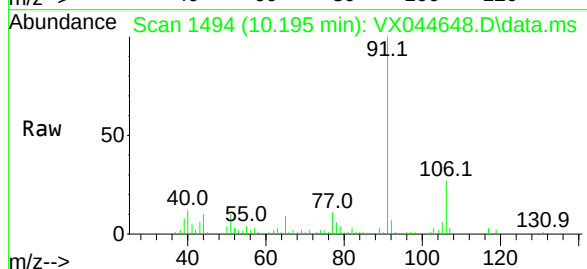
Manual Integrations
APPROVED

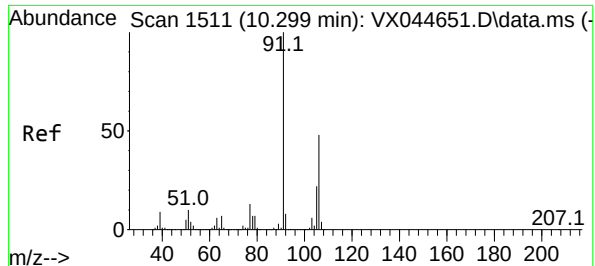
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#67
Ethyl Benzene
Concen: 1.093 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

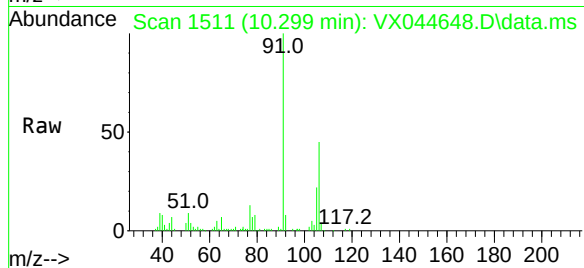
Tgt Ion: 91 Resp: 13366
Ion Ratio Lower Upper
91 100
106 27.6 25.0 37.6





#68
m/p-Xylenes
Concen: 2.244 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

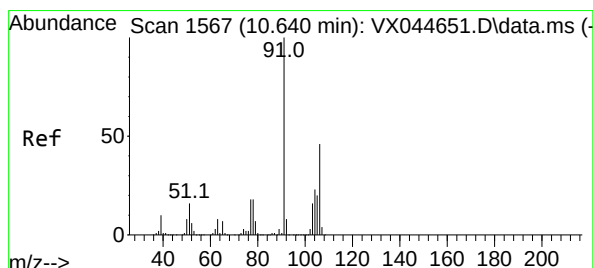
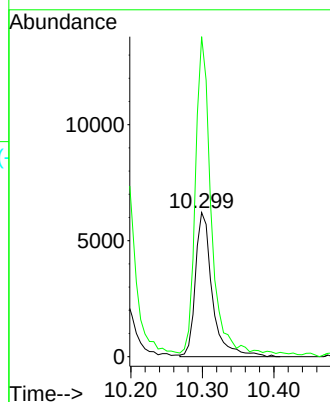
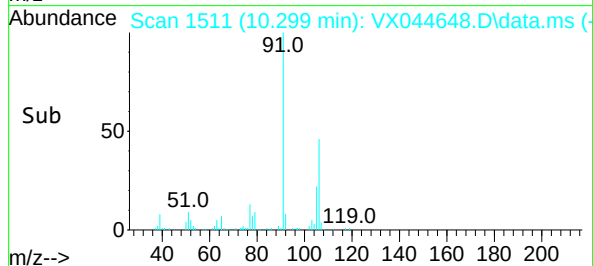
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:106 Resp: 10180
Ion Ratio Lower Upper
106 100
91 207.4 166.4 249.6

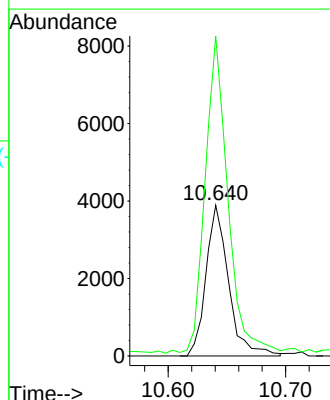
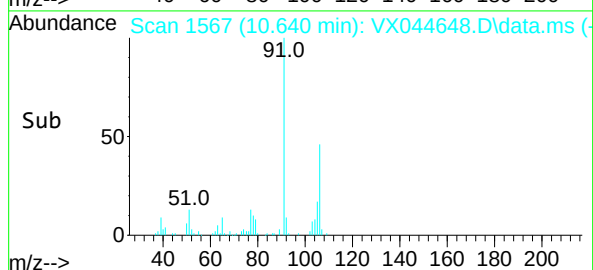
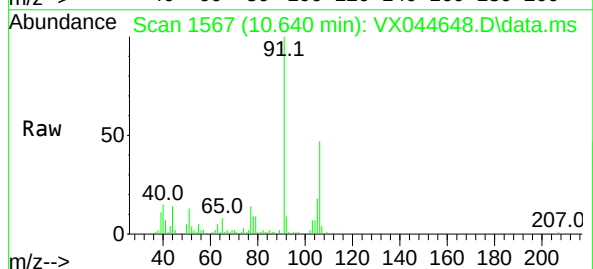
Manual Integrations
APPROVED

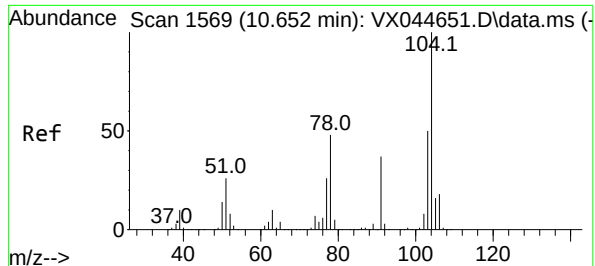
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#69
o-Xylene
Concen: 1.132 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:106 Resp: 5193
Ion Ratio Lower Upper
106 100
91 213.5 108.7 326.3





#70

Styrene

Concen: 1.044 ug/l

RT: 10.659 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

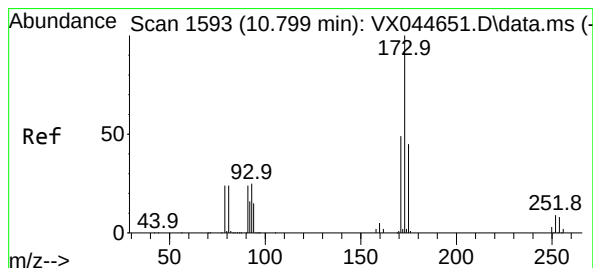
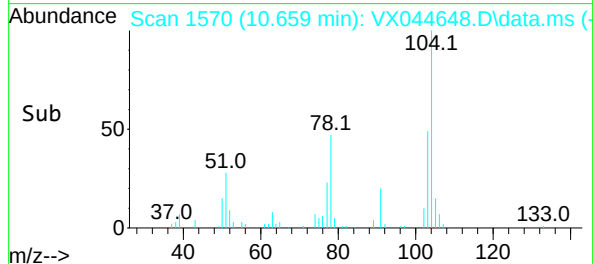
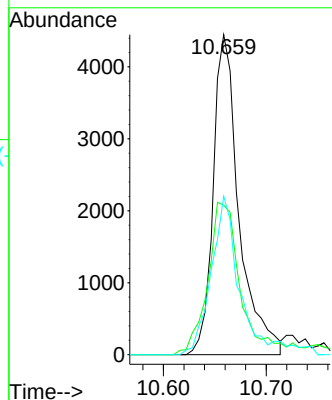
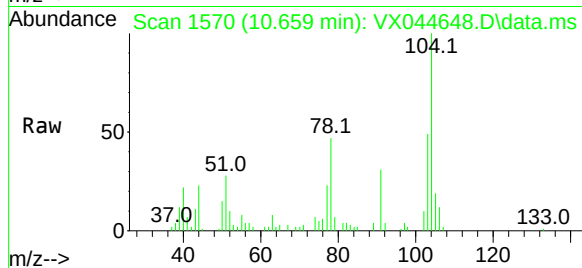
Tgt Ion:	104	Resp:	773
Ion	Ratio	Lower	Upper
104	100		
78	61.6	43.0	64.6
103	56.1	43.4	65.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#71

Bromoform

Concen: 1.058 ug/l

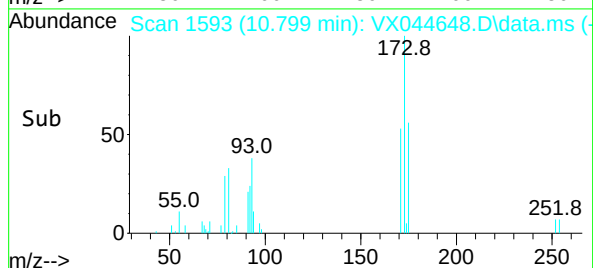
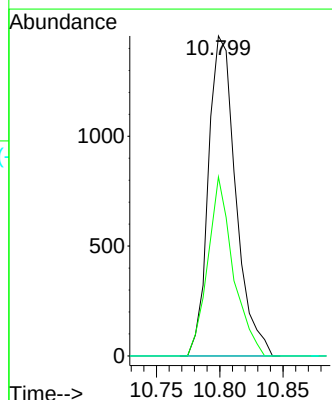
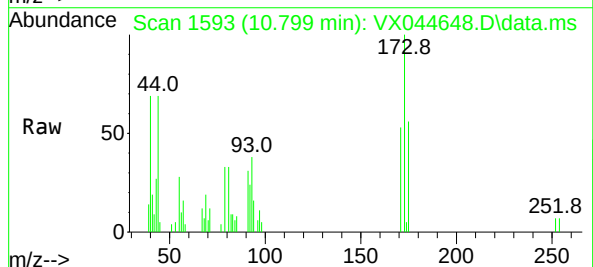
RT: 10.799 min Scan# 1593

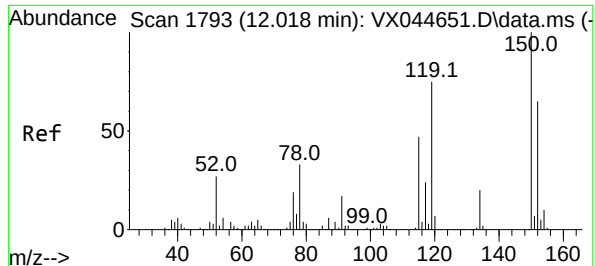
Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

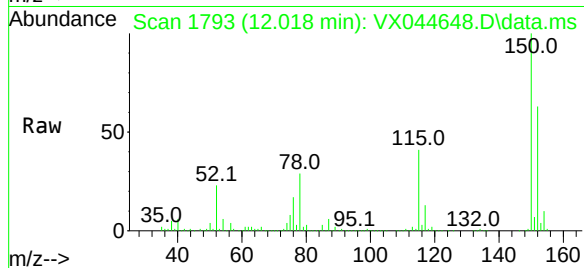
Tgt Ion:	173	Resp:	2194
Ion	Ratio	Lower	Upper
173	100		
175	51.7	23.6	70.8
254	0.0	0.1	0.1





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

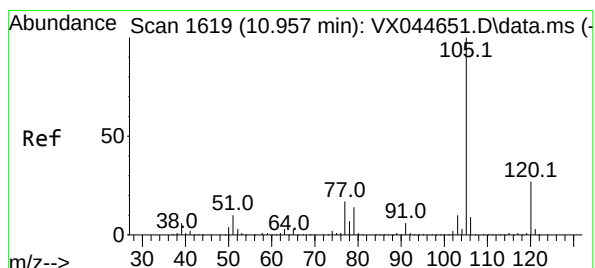
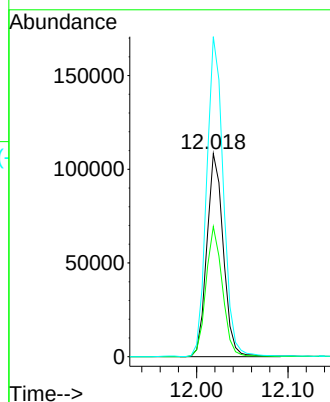
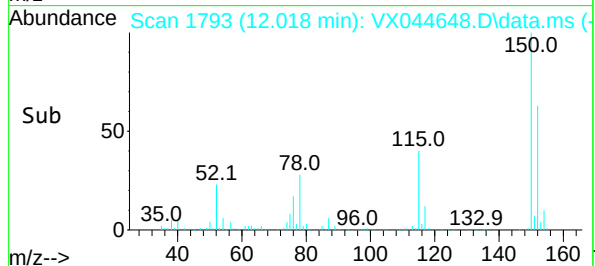
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



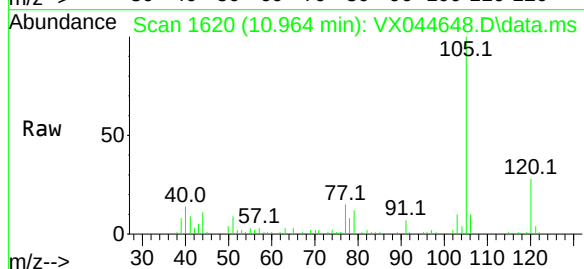
Tgt Ion:152 Resp: 135288
Ion Ratio Lower Upper
152 100
115 64.1 43.8 131.4
150 159.9 0.0 347.8

Manual Integrations
APPROVED

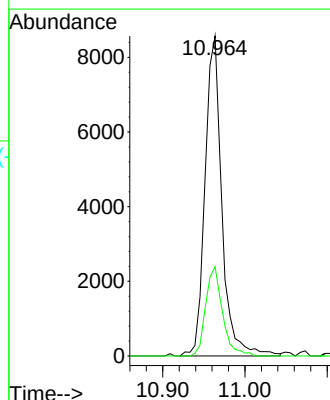
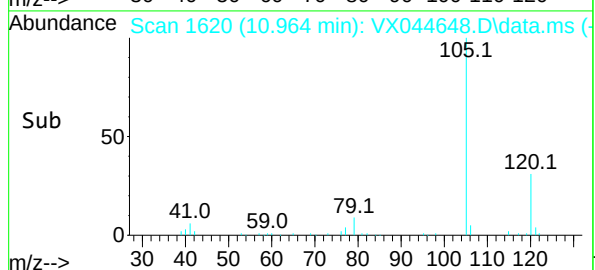
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

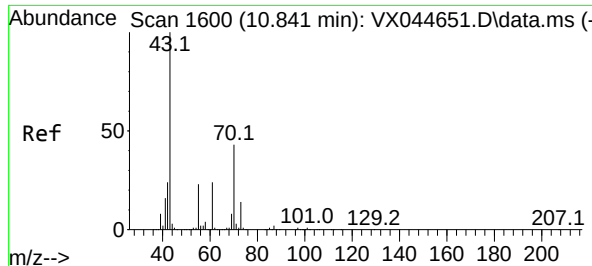


#73
Isopropylbenzene
Concen: 1.105 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31



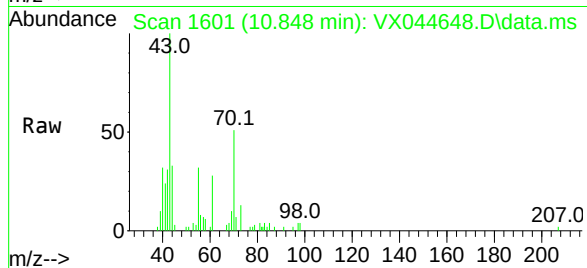
Tgt Ion:105 Resp: 12214
Ion Ratio Lower Upper
105 100
120 27.8 13.2 39.6





#74
N-amy1 acetate
Concen: 1.107 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

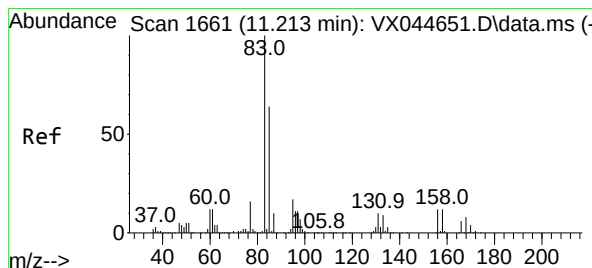
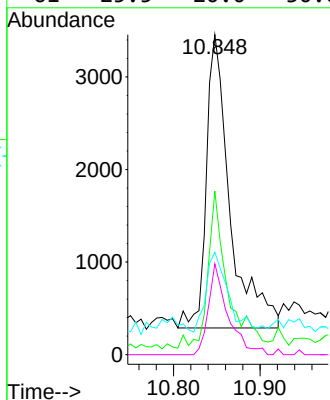
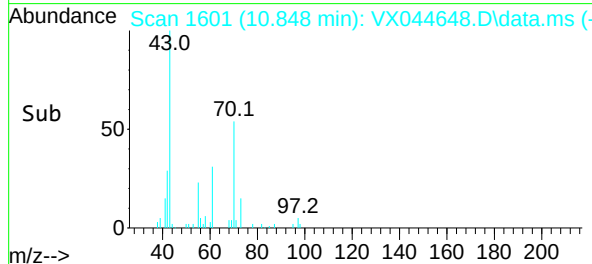
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 6028
Ion Ratio Lower Upper
43 100
70 41.6 35.2 52.8
55 25.6 19.0 28.4
61 25.5 20.0 30.0

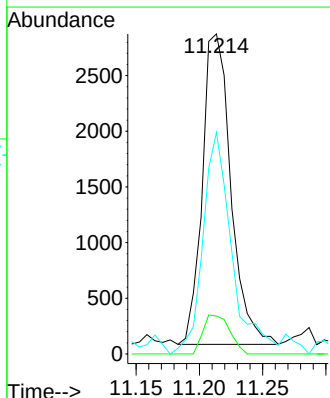
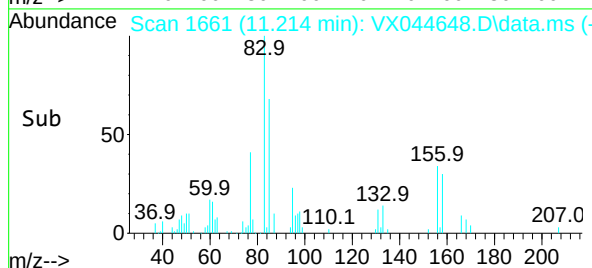
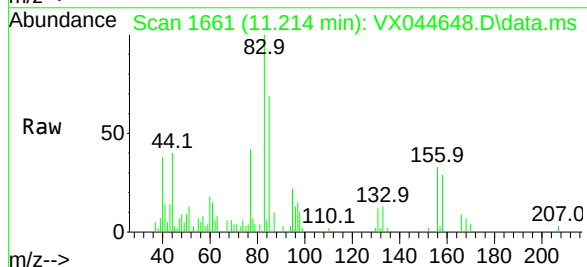
Manual Integrations
APPROVED

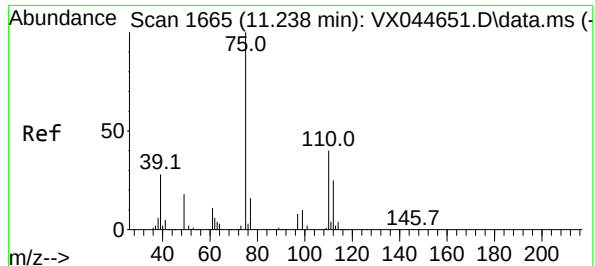
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 1.147 ug/l
RT: 11.214 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

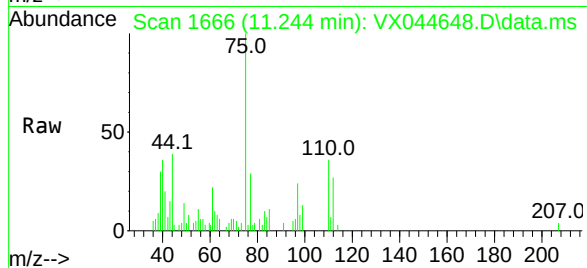
Tgt Ion: 83 Resp: 4377
Ion Ratio Lower Upper
83 100
131 11.7 5.0 14.9
85 72.0 32.0 96.2





#76
1,2,3-Trichloropropane
Concen: 1.119 ug/l m
RT: 11.244 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

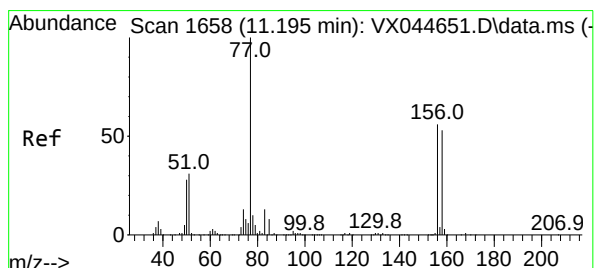
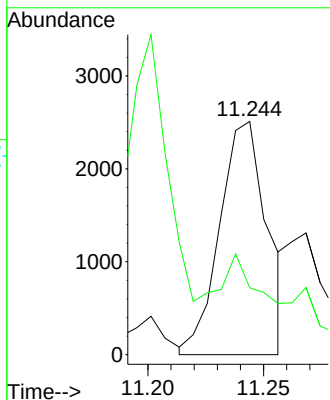
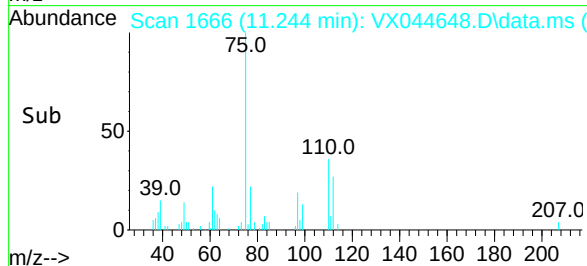
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



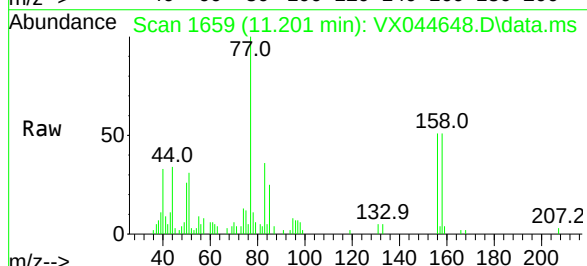
Tgt Ion: 75 Resp: 3574
Ion Ratio Lower Upper
75 100
77 56.8 23.4 70.2

Manual Integrations
APPROVED

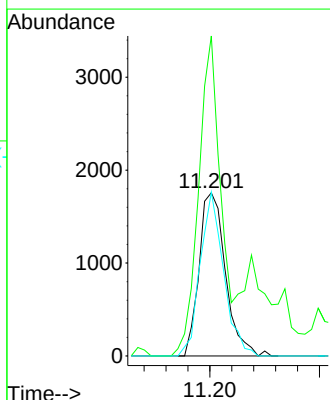
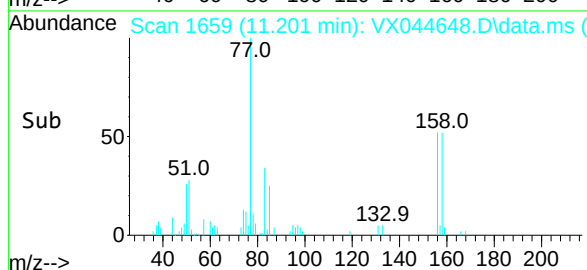
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

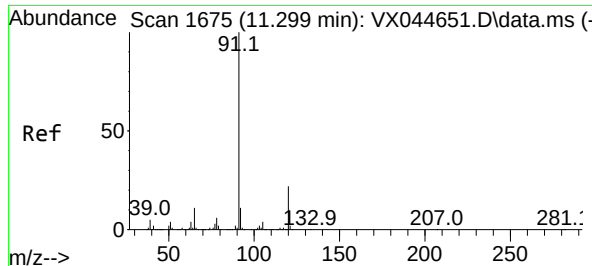


#77
Bromobenzene
Concen: 1.137 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31



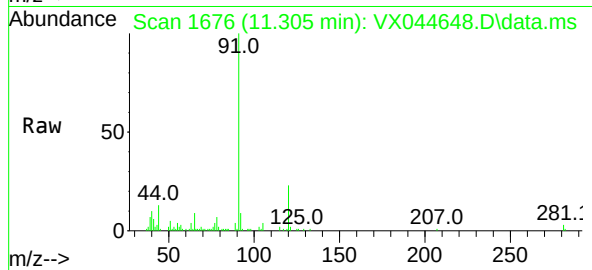
Tgt Ion:156 Resp: 2937
Ion Ratio Lower Upper
156 100
77 170.8 90.3 271.0
158 89.3 48.4 145.3





#78
n-propylbenzene
Concen: 1.088 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

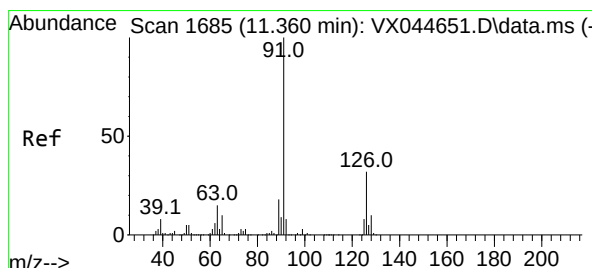
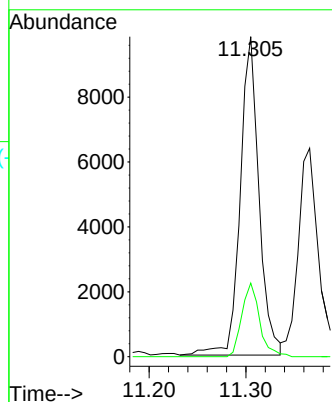
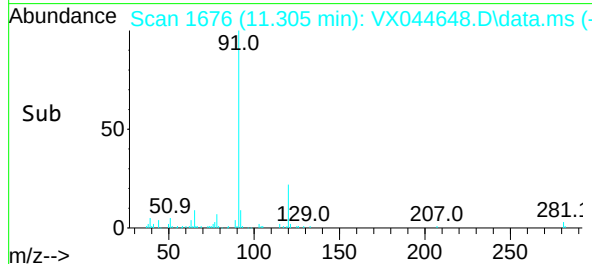
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 91 Resp: 13264
Ion Ratio Lower Upper
91 100
120 21.9 11.4 34.1

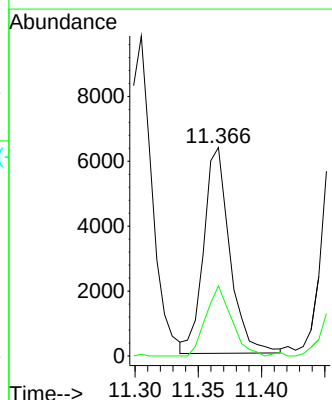
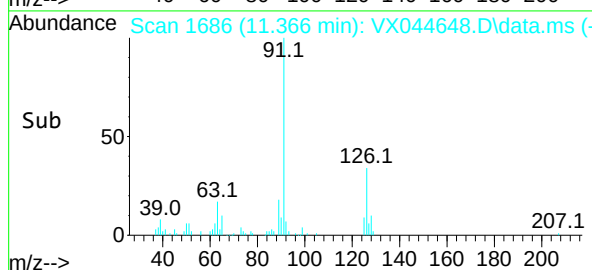
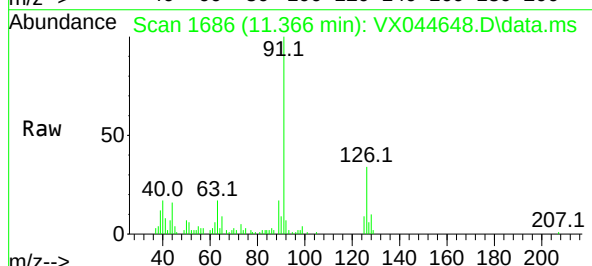
Manual Integrations
APPROVED

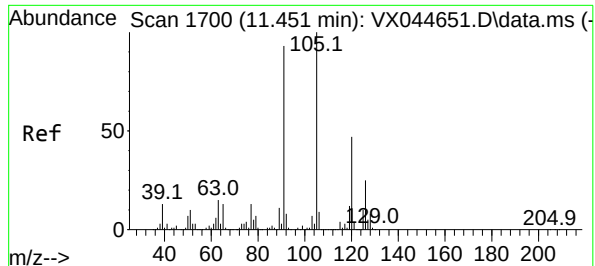
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#79
2-Chlorotoluene
Concen: 1.163 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 91 Resp: 9159
Ion Ratio Lower Upper
91 100
126 33.2 16.2 48.5





#80

1,3,5-Trimethylbenzene

Concen: 1.115 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 1003

Ion Ratio Lower Upper

105 100

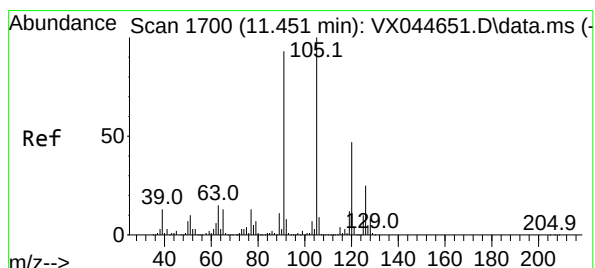
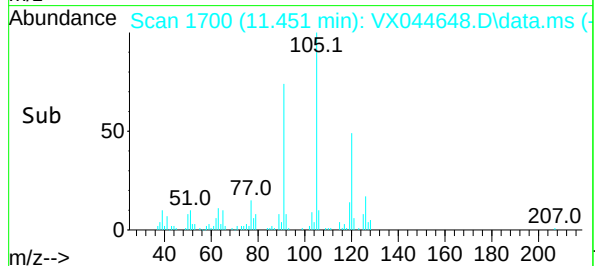
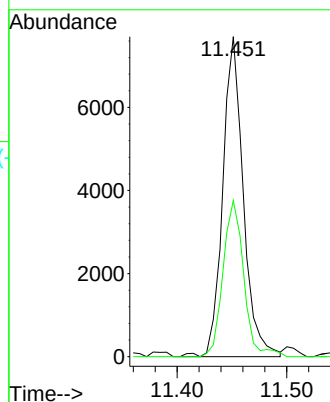
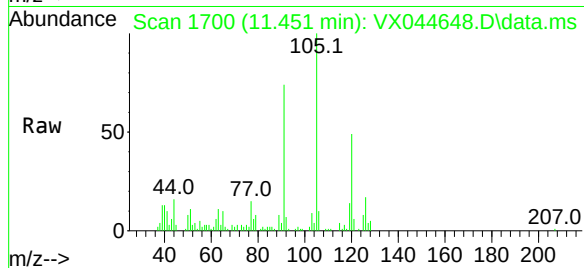
120 49.2 23.7 71.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#82

4-Chlorotoluene

Concen: 1.101 ug/l

RT: 11.457 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VX044648.D

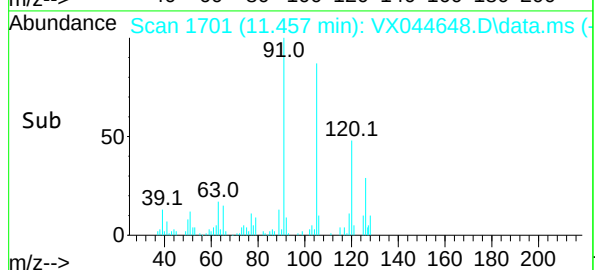
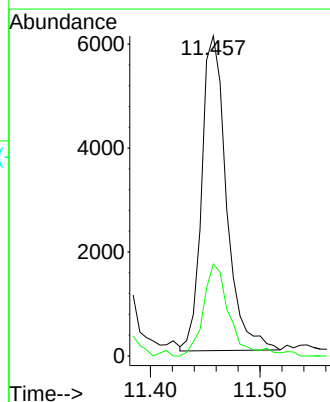
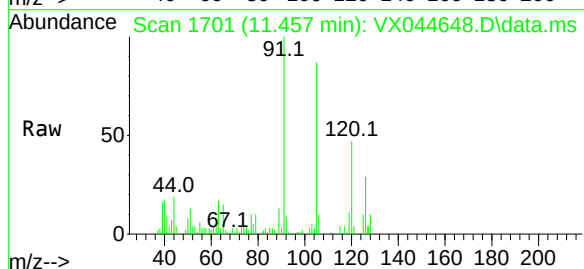
Acq: 15 Jan 2025 10:31

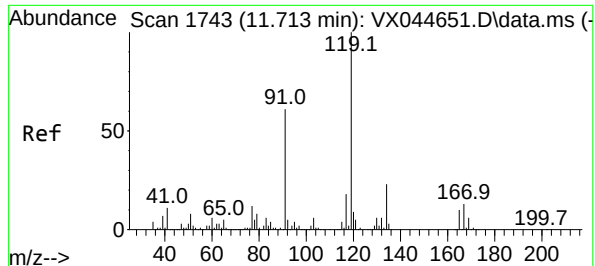
Tgt Ion: 91 Resp: 9494

Ion Ratio Lower Upper

91 100

126 31.3 13.9 41.7





#83

tert-Butylbenzene

Concen: 1.155 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:119 Resp: 10869

Ion Ratio Lower Upper

119 100

91 63.4 30.0 90.0

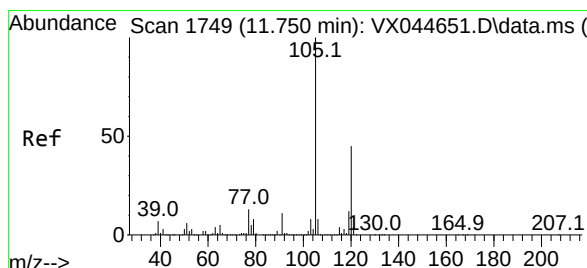
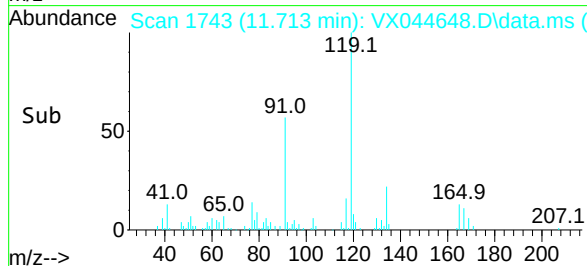
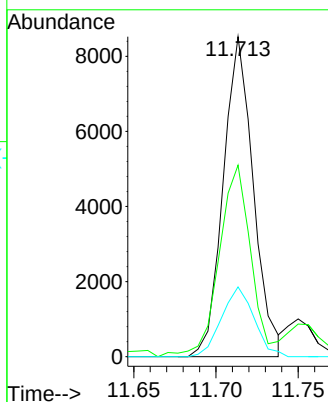
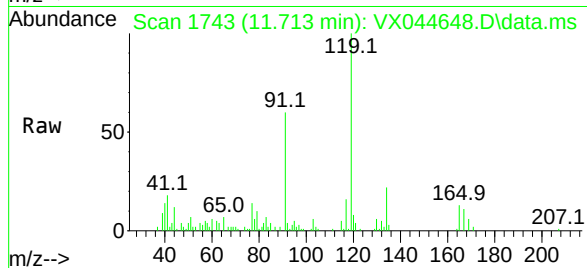
134 23.5 11.2 33.5

Manual Integrations

APPROVED

Reviewed By :John Carbone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#84

1,2,4-Trimethylbenzene

Concen: 1.174 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044648.D

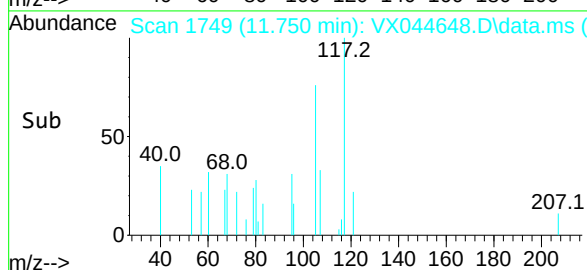
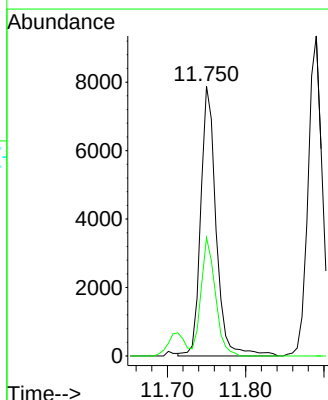
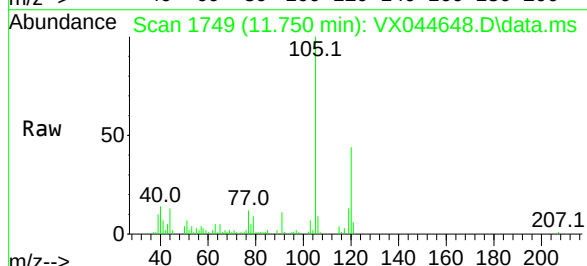
Acq: 15 Jan 2025 10:31

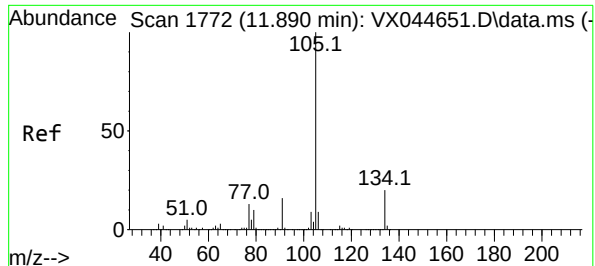
Tgt Ion:105 Resp: 10735

Ion Ratio Lower Upper

105 100

120 40.5 22.2 66.6





#85

sec-Butylbenzene

Concen: 1.115 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 1221

Ion Ratio Lower Upper

105 100

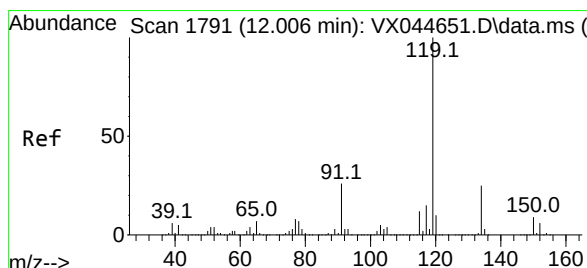
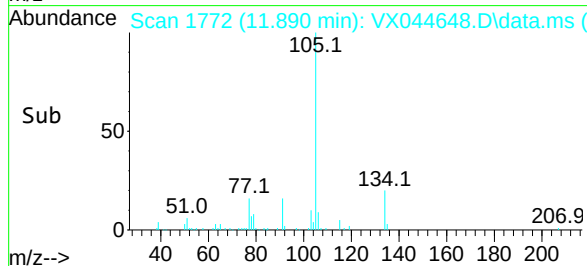
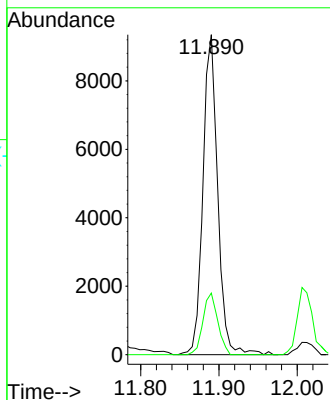
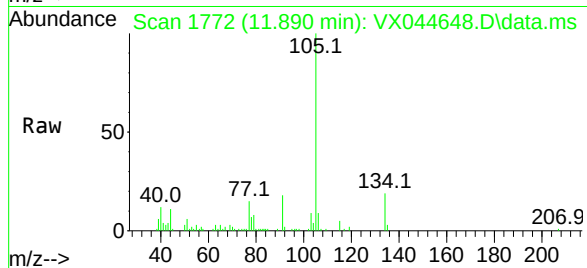
134 19.3 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#86

p-Isopropyltoluene

Concen: 1.101 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

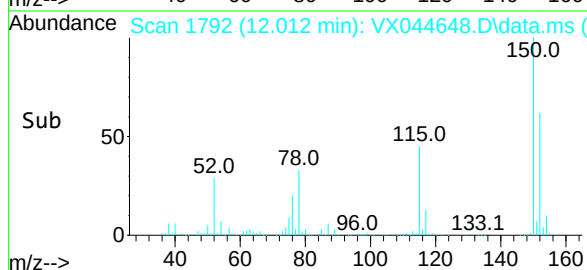
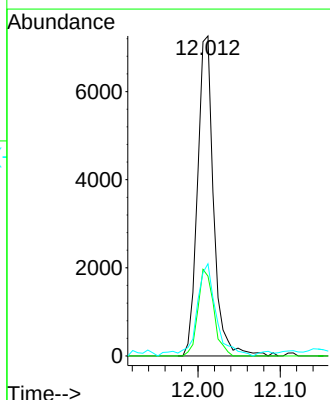
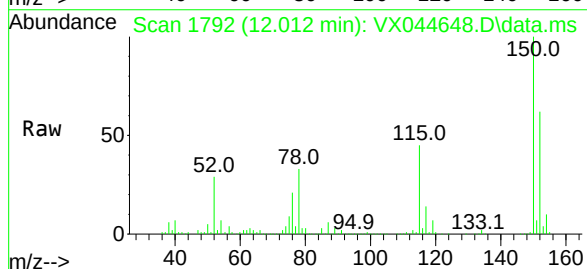
Tgt Ion:119 Resp: 9910

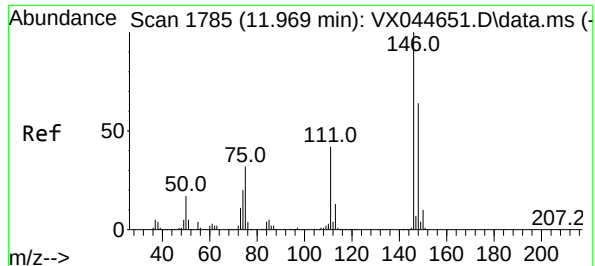
Ion Ratio Lower Upper

119 100

134 26.5 12.8 38.4

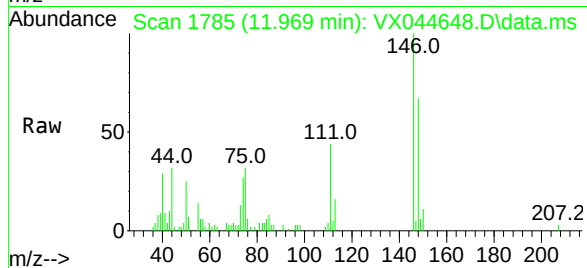
91 34.4 12.7 38.1





#87
1,3-Dichlorobenzene
Concen: 1.046 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

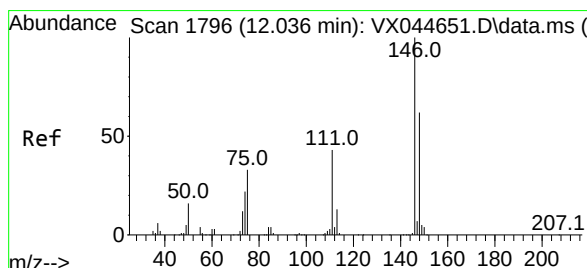
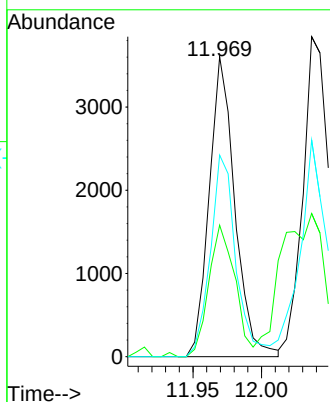
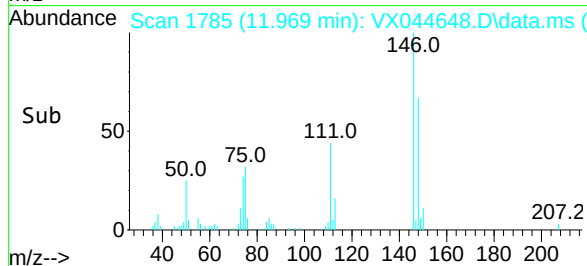
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:146 Resp: 4688
Ion Ratio Lower Upper
146 100
111 44.8 21.9 65.7
148 67.2 31.8 95.4

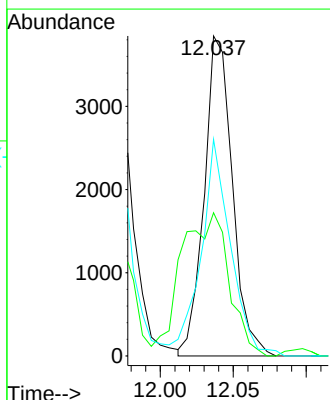
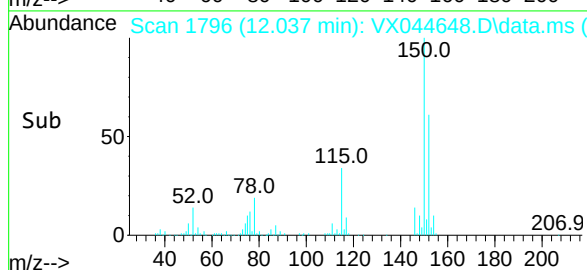
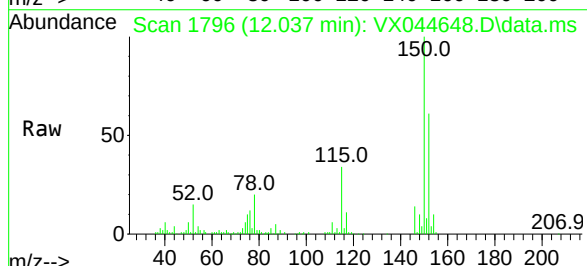
Manual Integrations
APPROVED

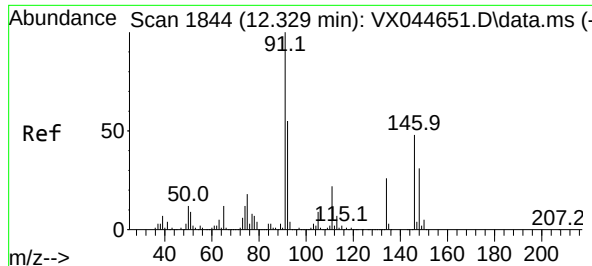
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#88
1,4-Dichlorobenzene
Concen: 1.163 ug/l m
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:146 Resp: 5172
Ion Ratio Lower Upper
146 100
111 40.6 21.5 64.5
148 60.9 32.1 96.5





#89

n-Butylbenzene

Concen: 1.047 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

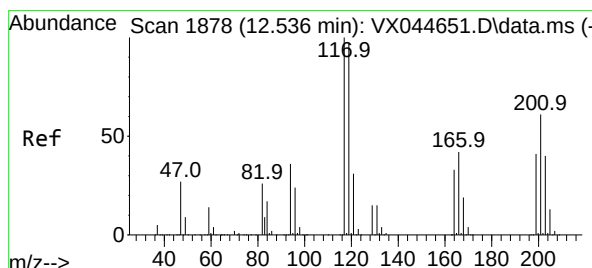
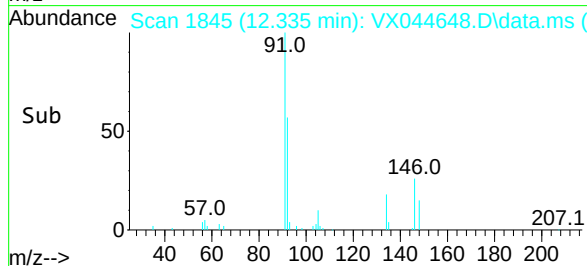
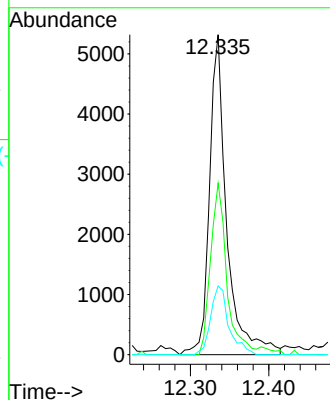
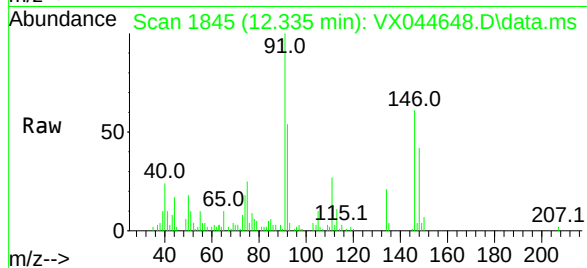
Tgt Ion:	91	Resp:	809
Ion	Ratio	Lower	Upper
91	100		
92	50.5	27.4	82.0
134	22.8	12.8	38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#90

Hexachloroethane

Concen: 1.270 ug/l

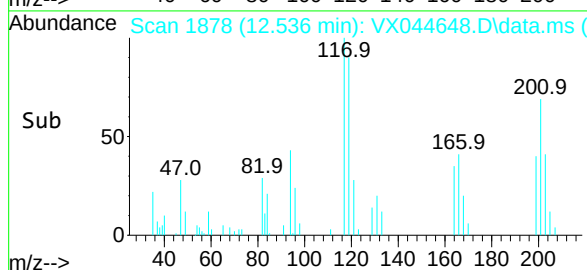
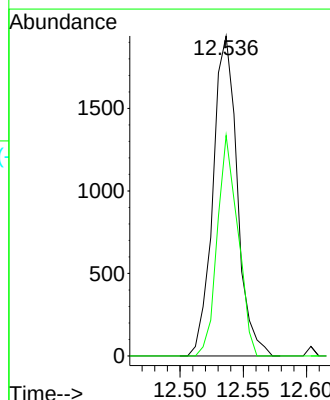
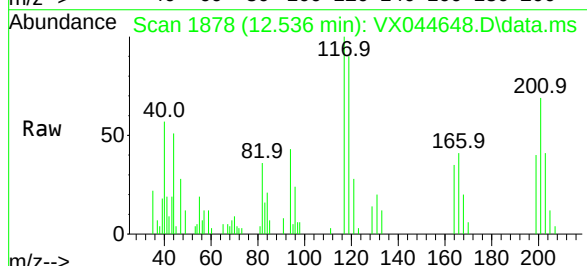
RT: 12.536 min Scan# 1878

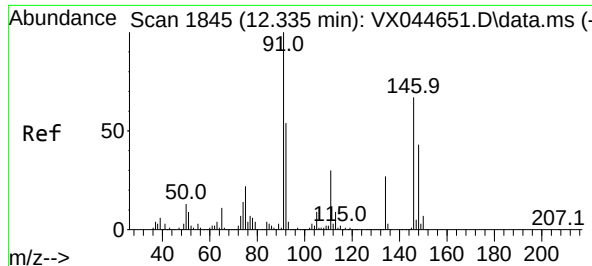
Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

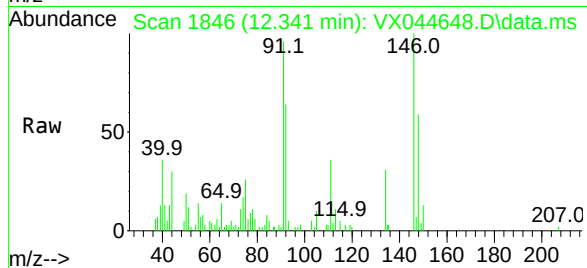
Tgt Ion:	117	Resp:	2589
Ion	Ratio	Lower	Upper
117	100		
201	58.4	32.3	96.8





#91
1,2-Dichlorobenzene
Concen: 1.128 ug/l
RT: 12.341 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

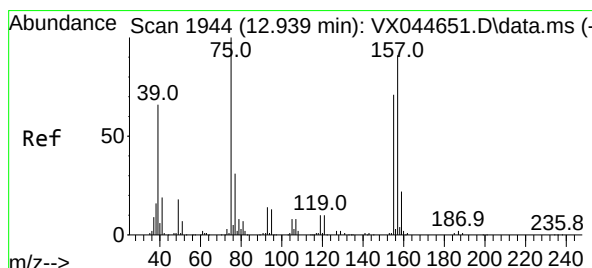
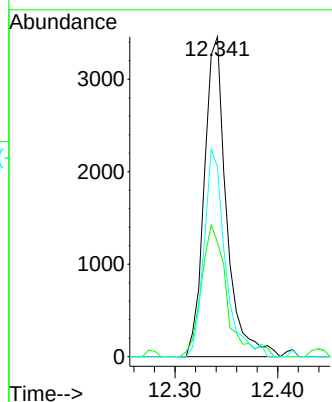
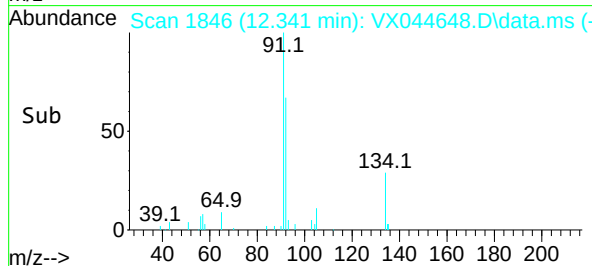
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:146 Resp: 519
Ion Ratio Lower Upper
146 100
111 47.0 22.4 67.2
148 62.3 31.6 94.8

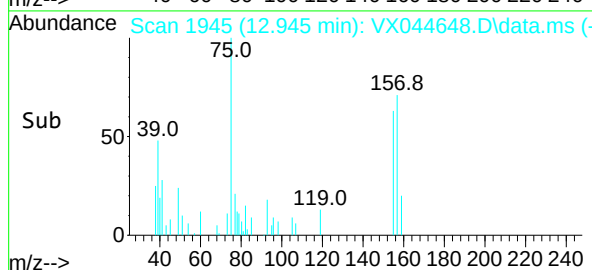
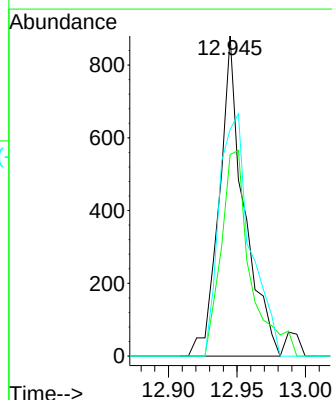
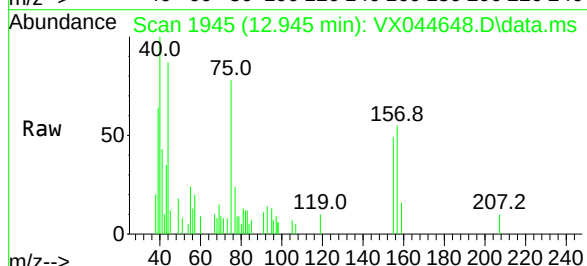
Manual Integrations
APPROVED

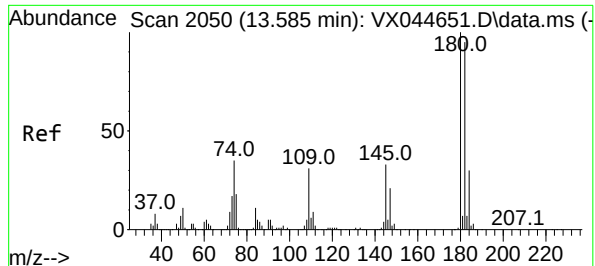
Reviewed By :John Carbone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.178 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 75 Resp: 1100
Ion Ratio Lower Upper
75 100
155 75.9 39.0 116.9
157 95.6 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 0.941 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

Instrument :

MSVOA_X

ClientSampleId :

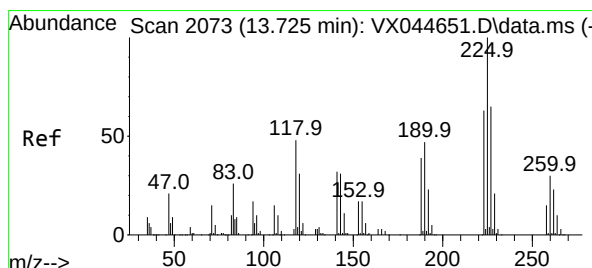
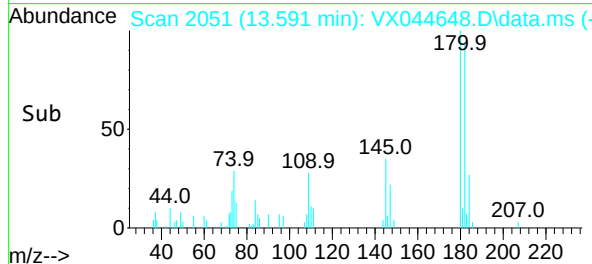
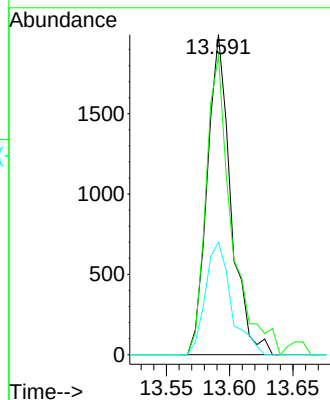
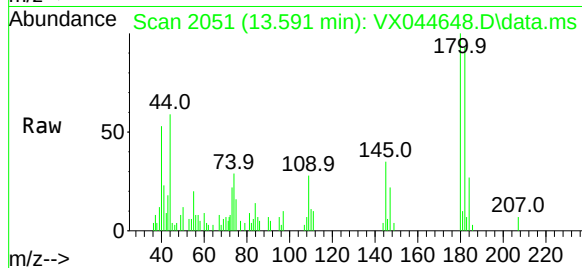
VSTDIC001

Tgt Ion:180	Resp:	258
Ion Ratio	Lower	Upper
180	100	
182	101.8	47.4 142.2
145	38.4	16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#94

Hexachlorobutadiene

Concen: 1.049 ug/l

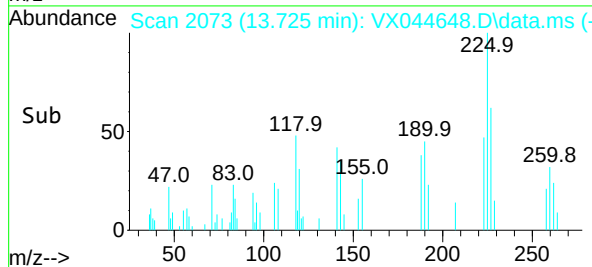
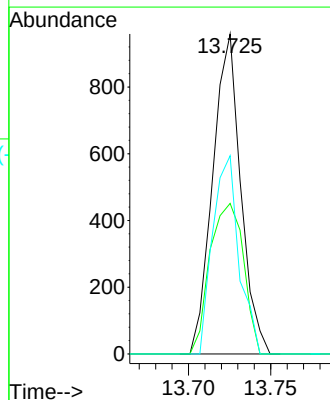
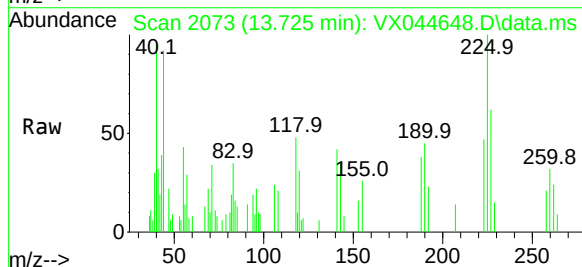
RT: 13.725 min Scan# 2073

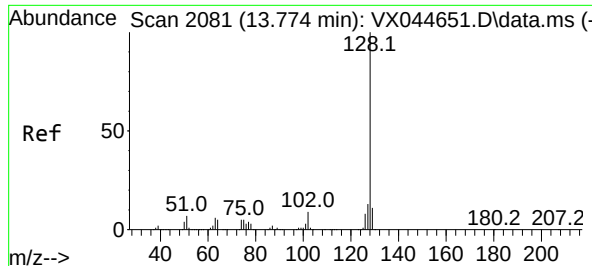
Delta R.T. 0.000 min

Lab File: VX044648.D

Acq: 15 Jan 2025 10:31

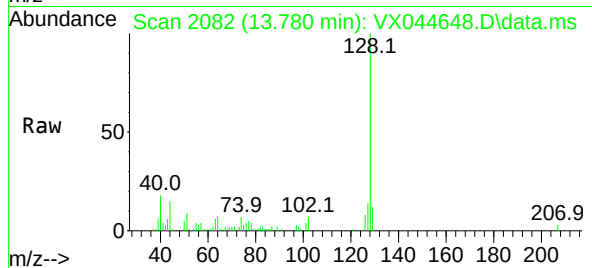
Tgt Ion:225	Resp:	1133
Ion Ratio	Lower	Upper
225	100	
223	56.4	31.9 95.7
227	57.7	31.8 95.4





#95
Naphthalene
Concen: 1.033 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

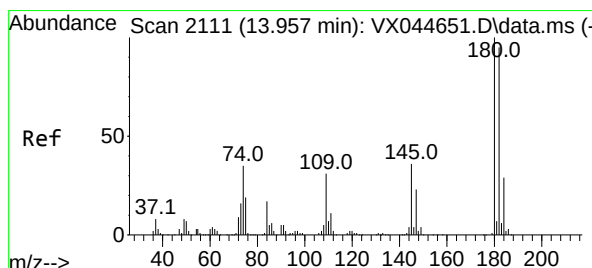
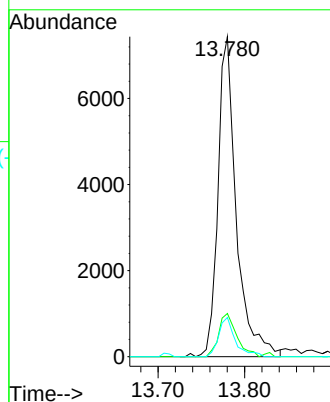
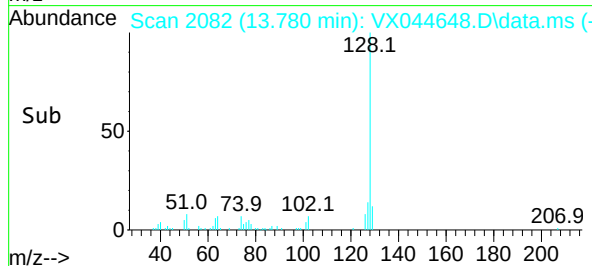
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:128 Resp: 10950
Ion Ratio Lower Upper
128 100
127 13.2 10.3 15.5
129 11.1 8.7 13.1

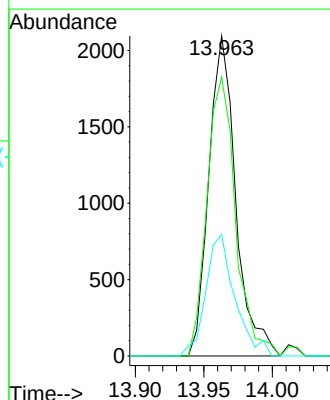
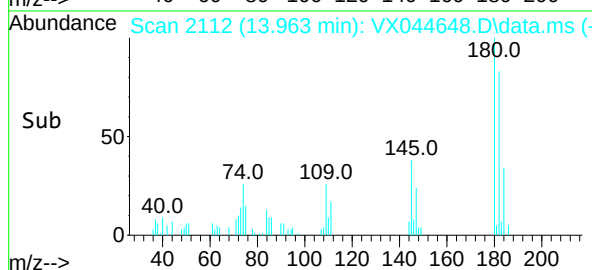
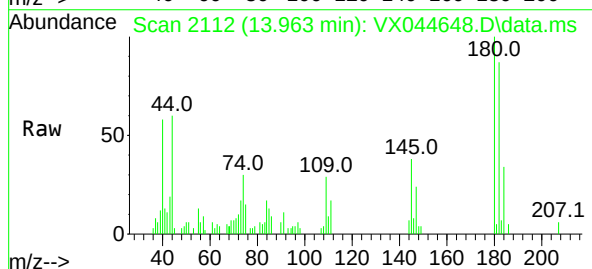
Manual Integrations
APPROVED

Reviewed By :John Carbone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 1.004 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:180 Resp: 2863
Ion Ratio Lower Upper
180 100
182 92.5 47.2 141.6
145 40.9 17.5 52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044649.D
 Acq On : 15 Jan 2025 11:17
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:59:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	194627	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	357706	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	300165	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	123491	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	16795	5.717	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.440%#		
35) Dibromofluoromethane	5.379	113	12712	5.594	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	11.180%#		
50) Toluene-d8	8.647	98	45425	5.733	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	11.460%#		
62) 4-Bromofluorobenzene	11.079	95	15909	5.386	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	10.780%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	11790	4.502	ug/l	96
3) Chloromethane	1.301	50	13859	4.893	ug/l	99
4) Vinyl Chloride	1.374	62	13246	4.734	ug/l	97
5) Bromomethane	1.593	94	3303	4.943	ug/l	98
6) Chloroethane	1.660	64	2387	4.652	ug/l #	83
7) Trichlorofluoromethane	1.868	101	14571	4.711	ug/l	95
8) Diethyl Ether	2.136	74	6231	4.992	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	10967	4.717	ug/l	99
10) Methyl Iodide	2.441	142	15920	5.016	ug/l	99
11) Tert butyl alcohol	2.989	59	20543m	31.009	ug/l	
12) 1,1-Dichloroethene	2.307	96	10636	4.667	ug/l	91
13) Acrolein	2.239	56	11045	35.838	ug/l	95
14) Allyl chloride	2.654	41	21748	4.901	ug/l	97
15) Acrylonitrile	3.069	53	32783	25.521	ug/l	98
16) Acetone	2.386	43	26927	23.167	ug/l	97
17) Carbon Disulfide	2.502	76	30278	4.869	ug/l	97
18) Methyl Acetate	2.703	43	16192	4.516	ug/l	95
19) Methyl tert-butyl Ether	3.117	73	41254	4.998	ug/l	100
20) Methylene Chloride	2.782	84	13610	5.028	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	11813	4.965	ug/l	98
22) Diisopropyl ether	3.764	45	39716	5.149	ug/l	92
23) Vinyl Acetate	3.721	43	175668	26.022	ug/l	99
24) 1,1-Dichloroethane	3.605	63	22655	4.953	ug/l	98
25) 2-Butanone	4.568	43	43210	25.004	ug/l	96
26) 2,2-Dichloropropane	4.465	77	21972	4.957	ug/l	98
27) cis-1,2-Dichloroethene	4.483	96	14297	4.777	ug/l	97
28) Bromochloromethane	4.891	49	10785	5.046	ug/l	100
29) Tetrahydrofuran	5.007	42	27602	24.762	ug/l	98
30) Chloroform	5.086	83	23860	5.169	ug/l	93
31) Cyclohexane	5.458	56	18252	4.934	ug/l	94
32) 1,1,1-Trichloroethane	5.373	97	20169	4.753	ug/l	99
36) 1,1-Dichloropropene	5.690	75	15040	4.754	ug/l	94
37) Ethyl Acetate	4.721	43	17349	5.150	ug/l	95
38) Carbon Tetrachloride	5.666	117	17983	5.054	ug/l	92
39) Methylcyclohexane	7.373	83	19848	4.727	ug/l	95
40) Benzene	6.038	78	49235	5.023	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044649.D
 Acq On : 15 Jan 2025 11:17
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:59:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	9920	5.124	ug/l	98
42) 1,2-Dichloroethane	6.086	62	17678	4.941	ug/l	97
43) Isopropyl Acetate	6.342	43	30226	4.877	ug/l	99
44) Trichloroethene	7.123	130	11427	4.849	ug/l	97
45) 1,2-Dichloropropane	7.428	63	12829	5.199	ug/l	97
46) Dibromomethane	7.580	93	9684	5.156	ug/l	94
47) Bromodichloromethane	7.818	83	18964	4.923	ug/l	94
48) Methyl methacrylate	7.696	41	13933	4.844	ug/l	97
49) 1,4-Dioxane	7.677	88	5674	94.542	ug/l	96
51) 4-Methyl-2-Pentanone	8.574	43	87503	25.551	ug/l	98
52) Toluene	8.714	92	30892	5.149	ug/l	97
53) t-1,3-Dichloropropene	8.976	75	19714	4.954	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	21054	4.879	ug/l	96
55) 1,1,2-Trichloroethane	9.153	97	12227	5.037	ug/l	99
56) Ethyl methacrylate	9.116	69	20596	4.935	ug/l	96
57) 1,3-Dichloropropane	9.305	76	21253	5.142	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	50319	24.557	ug/l	100
59) 2-Hexanone	9.433	43	63985	25.395	ug/l	100
60) Dibromochloromethane	9.519	129	14553	5.108	ug/l	99
61) 1,2-Dibromoethane	9.610	107	12916	5.077	ug/l	97
64) Tetrachloroethene	9.269	164	9274	4.920	ug/l	93
65) Chlorobenzene	10.073	112	32572	5.109	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.159	131	11955	5.160	ug/l	98
67) Ethyl Benzene	10.189	91	55208	4.963	ug/l	98
68) m/p-Xylenes	10.299	106	41816	10.129	ug/l	99
69) o-Xylene	10.640	106	21392	5.124	ug/l	96
70) Styrene	10.653	104	34407	5.105	ug/l	98
71) Bromoform	10.799	173	9452	5.012	ug/l #	97
73) Isopropylbenzene	10.963	105	52599	5.214	ug/l	100
74) N-amyl acetate	10.842	43	25282	5.084	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	18645	5.351	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	16903m	5.796	ug/l	
77) Bromobenzene	11.201	156	12158	5.156	ug/l	96
78) n-propylbenzene	11.305	91	53913	4.846	ug/l	99
79) 2-Chlorotoluene	11.366	91	36602	5.093	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	43488	5.295	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	6607	5.042	ug/l	95
82) 4-Chlorotoluene	11.451	91	39763	5.051	ug/l	99
83) tert-Butylbenzene	11.713	119	45606	5.311	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	41737	5.001	ug/l	99
85) sec-Butylbenzene	11.890	105	49858	4.987	ug/l	99
86) p-Isopropyltoluene	12.006	119	41214	5.016	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	20268	4.956	ug/l	100
88) 1,4-Dichlorobenzene	12.043	146	20555	5.062	ug/l	93
89) n-Butylbenzene	12.329	91	33505	4.747	ug/l	98
90) Hexachloroethane	12.536	117	9325	5.012	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	21690	5.165	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	4384	5.145	ug/l	96
93) 1,2,4-Trichlorobenzene	13.591	180	11649	4.640	ug/l	99
94) Hexachlorobutadiene	13.725	225	4738	4.804	ug/l	99
95) Naphthalene	13.774	128	46418	4.794	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	12258	4.710	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044649.D
Acq On : 15 Jan 2025 11:17
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:59:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

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

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

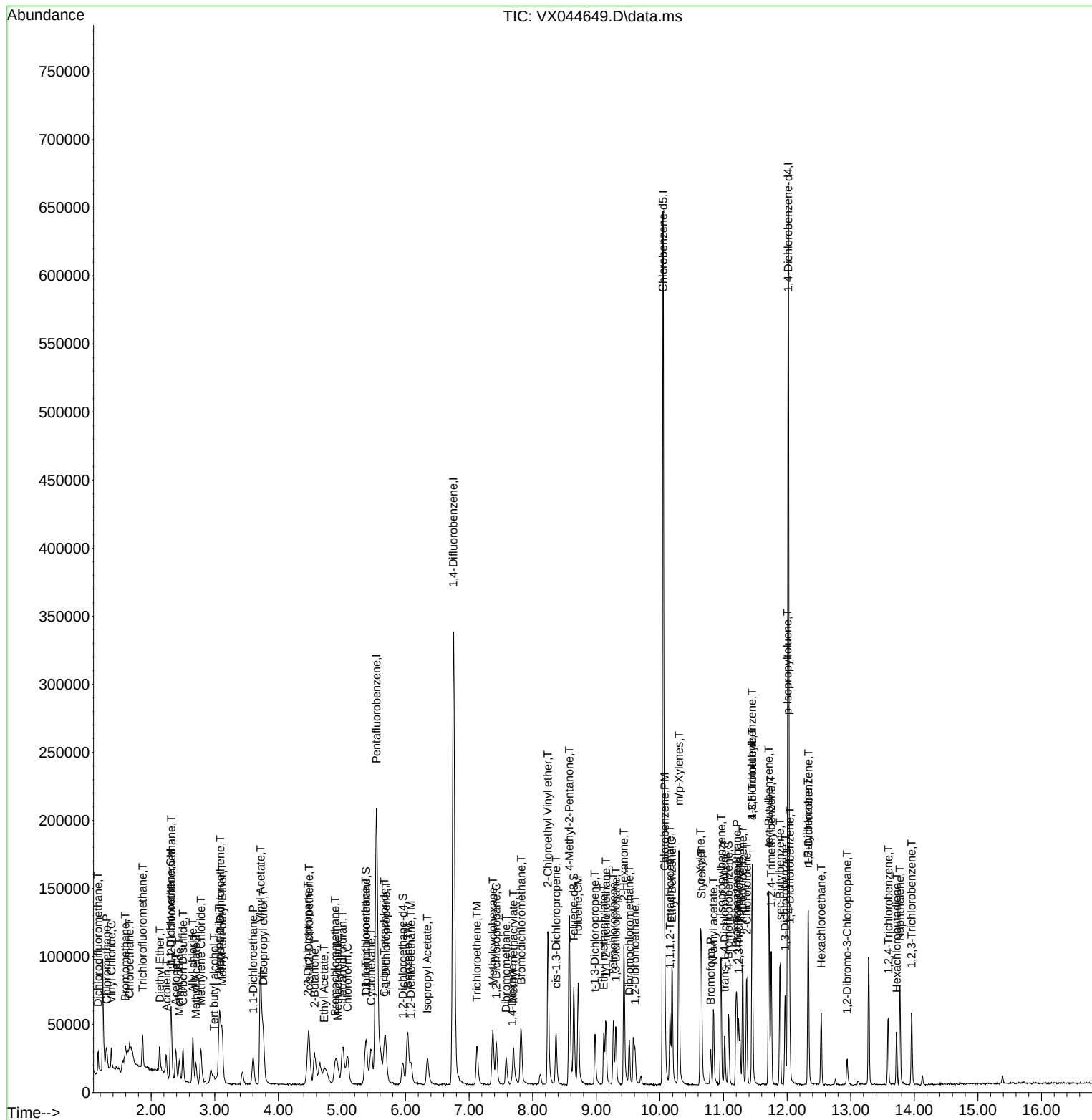
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\  
Data File : VX044649.D  
Acq On    : 15 Jan 2025  11:17  
Operator  : JC/MD  
Sample    : VSTDIC005  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 4      Sample Multiplier: 1
```

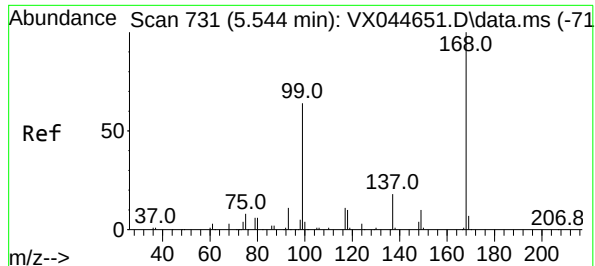
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

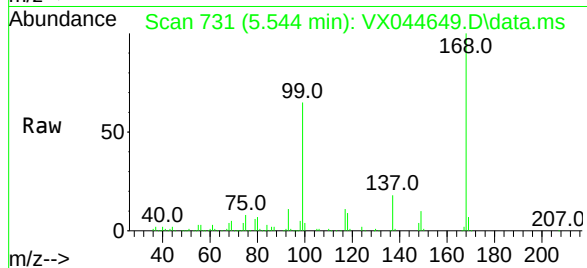
Quant Time: Jan 16 00:59:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

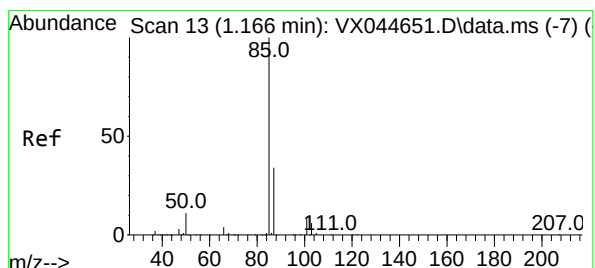
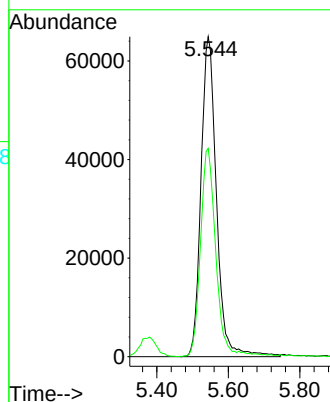
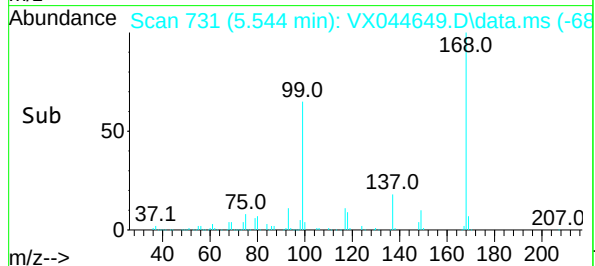
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:168 Resp: 19462
Ion Ratio Lower Upper
168 100
99 65.0 51.1 76.7

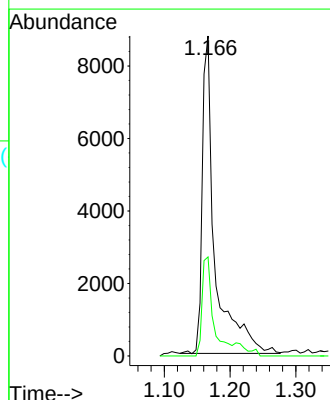
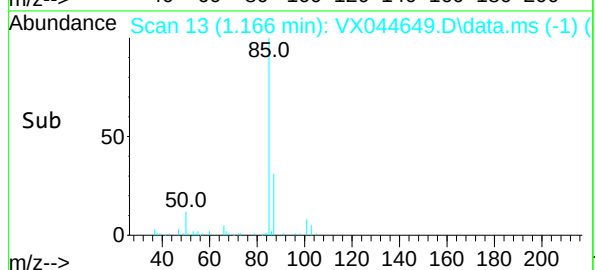
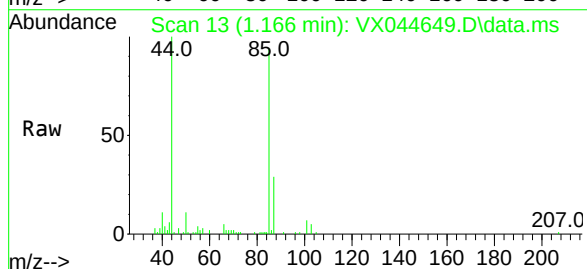
Manual Integrations
APPROVED

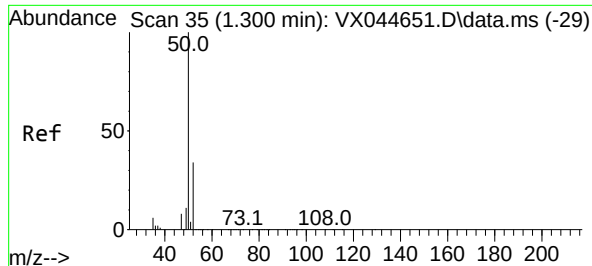
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#2
Dichlorodifluoromethane
Concen: 4.502 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

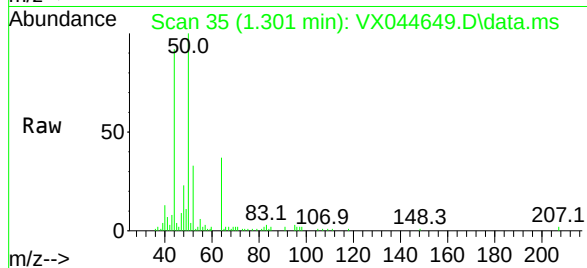
Tgt Ion: 85 Resp: 11790
Ion Ratio Lower Upper
85 100
87 31.2 16.8 50.4





#3
Chloromethane
Concen: 4.893 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

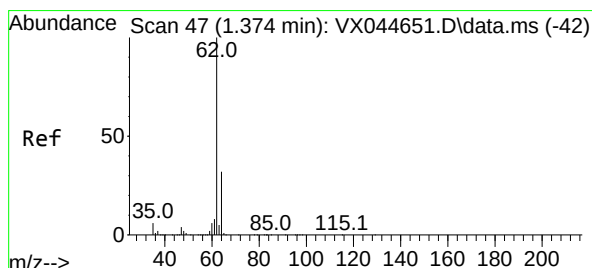
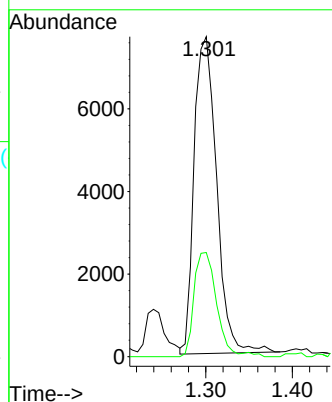
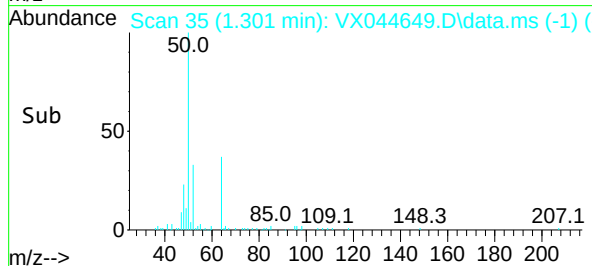
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 50 Resp: 1385
Ion Ratio Lower Upper
50 100
52 33.0 27.0 40.4

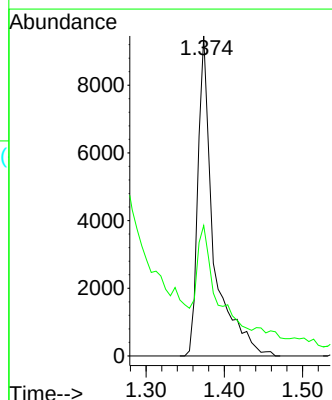
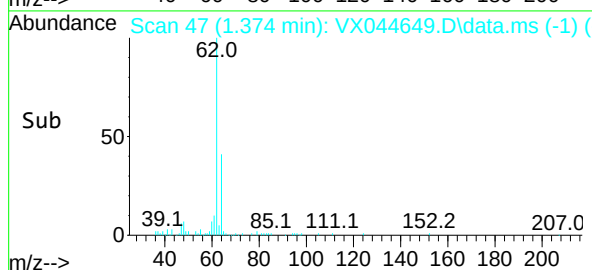
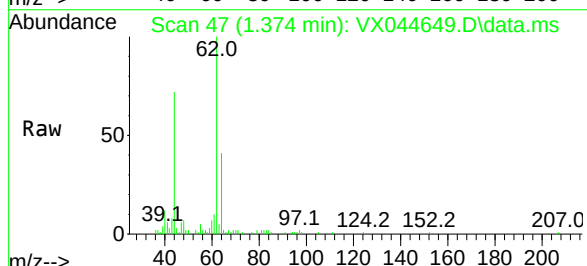
Manual Integrations
APPROVED

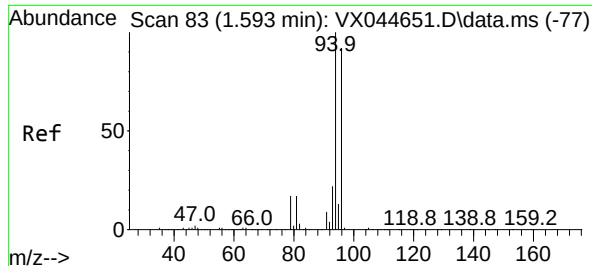
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#4
Vinyl Chloride
Concen: 4.734 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

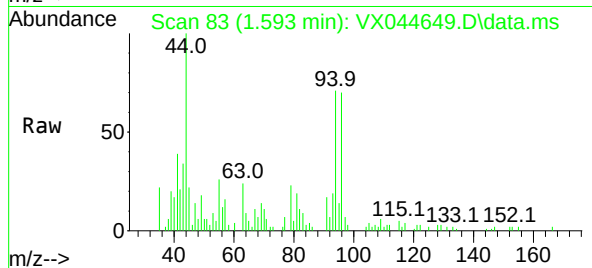
Tgt Ion: 62 Resp: 13246
Ion Ratio Lower Upper
62 100
64 35.1 26.6 39.8





#5
Bromomethane
Concen: 4.943 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

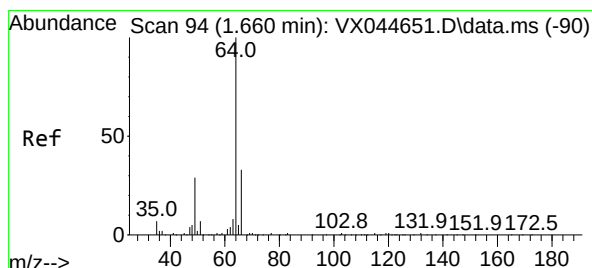
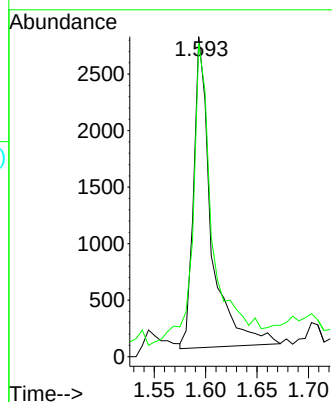
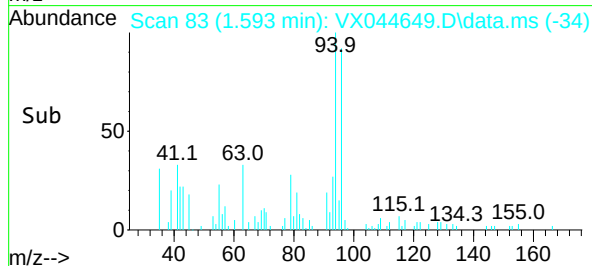
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 94 Resp: 330
Ion Ratio Lower Upper
94 100
96 92.5 72.8 109.2

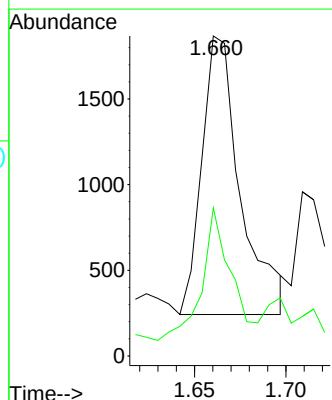
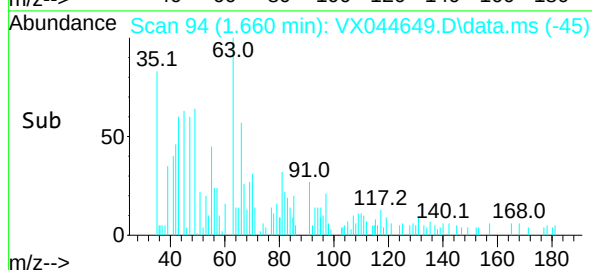
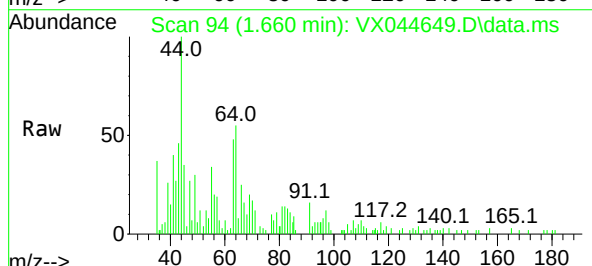
Manual Integrations
APPROVED

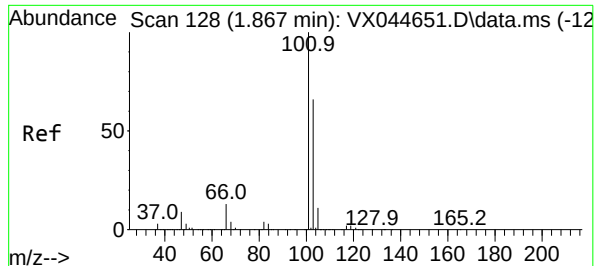
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#6
Chloroethane
Concen: 4.652 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

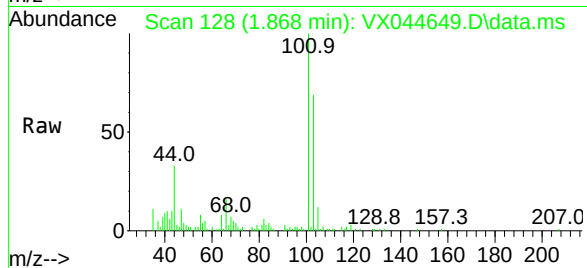
Tgt Ion: 64 Resp: 2387
Ion Ratio Lower Upper
64 100
66 42.6 26.6 39.8#





#7
Trichlorofluoromethane
Concen: 4.711 ug/l
RT: 1.868 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

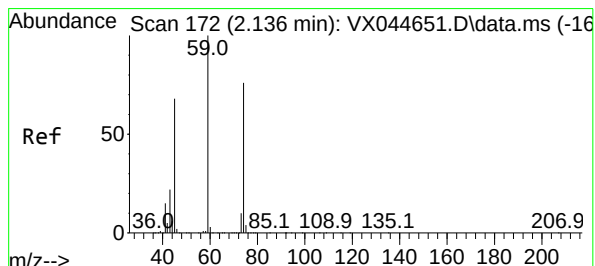
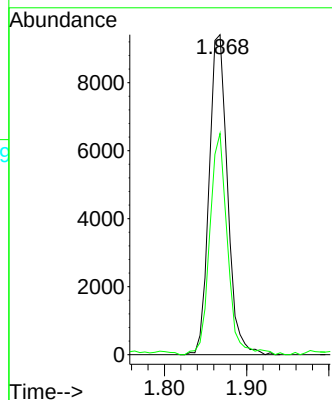
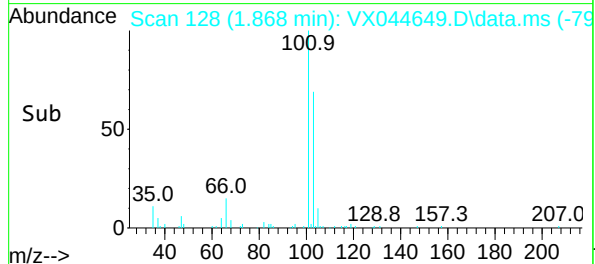
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:101 Resp: 1457
Ion Ratio Lower Upper
101 100
103 69.2 52.5 78.7

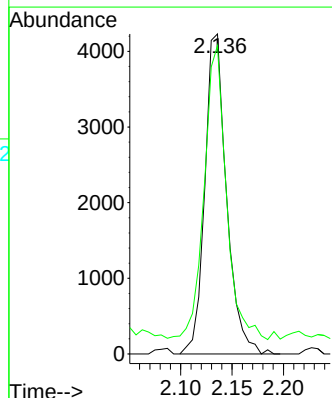
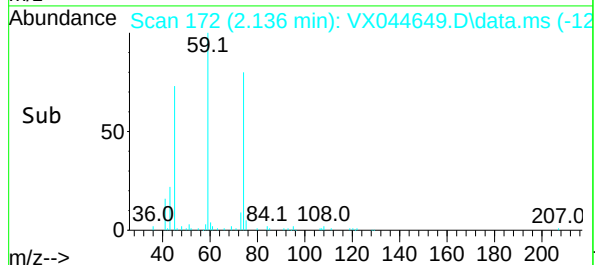
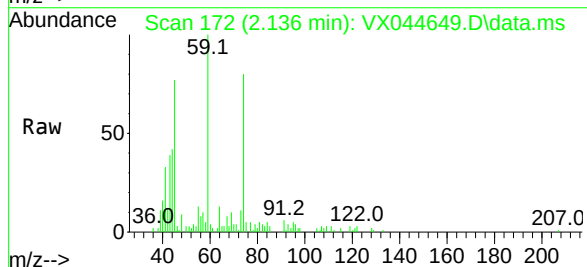
Manual Integrations
APPROVED

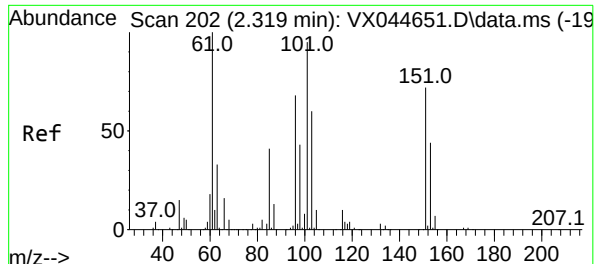
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#8
Diethyl Ether
Concen: 4.992 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

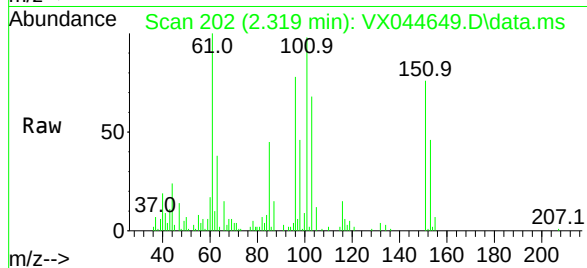
Tgt Ion: 74 Resp: 6231
Ion Ratio Lower Upper
74 100
45 93.9 47.1 141.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.717 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

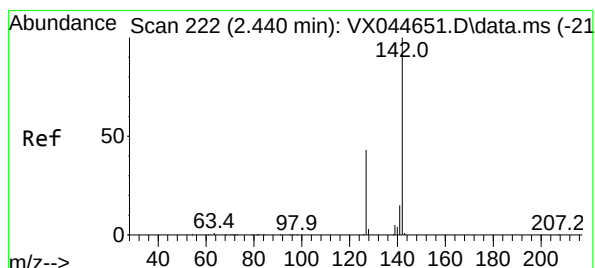
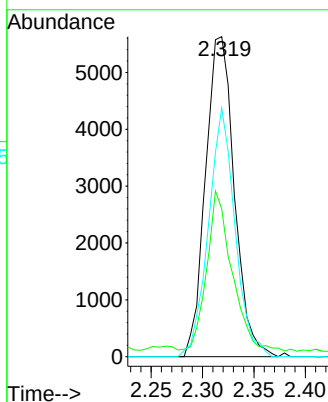
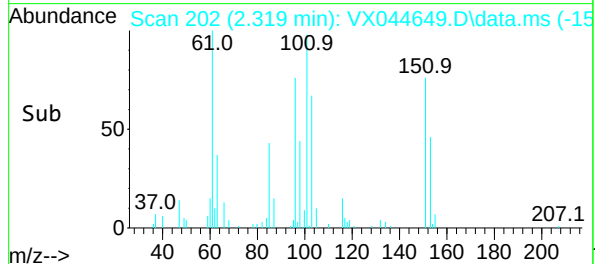
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:101 Resp: 1096
Ion Ratio Lower Upper
101 100
85 44.0 35.3 52.9
151 71.6 58.2 87.4

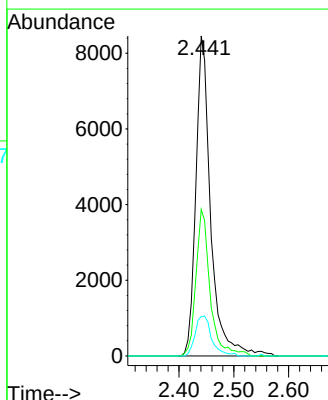
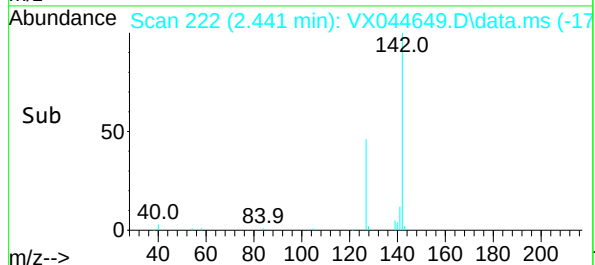
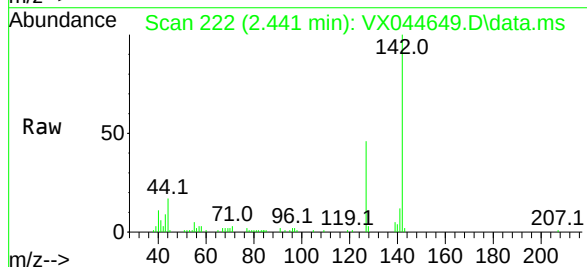
Manual Integrations
APPROVED

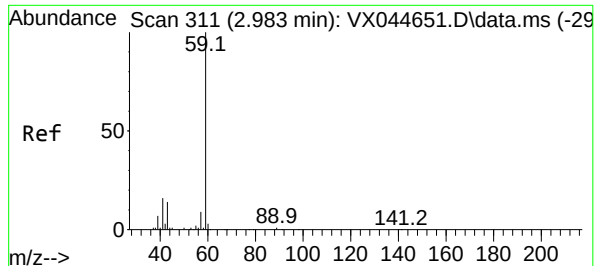
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#10
Methyl Iodide
Concen: 5.016 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:142 Resp: 15920
Ion Ratio Lower Upper
142 100
127 43.8 35.0 52.4
141 13.9 11.7 17.5





#11

Tert butyl alcohol

Concen: 31.009 ug/l m

RT: 2.989 min Scan# 311

Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 2054

Ion Ratio Lower Upper

59 100

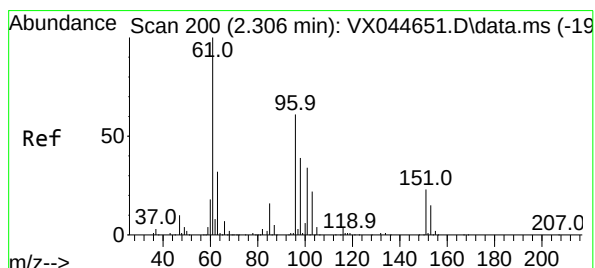
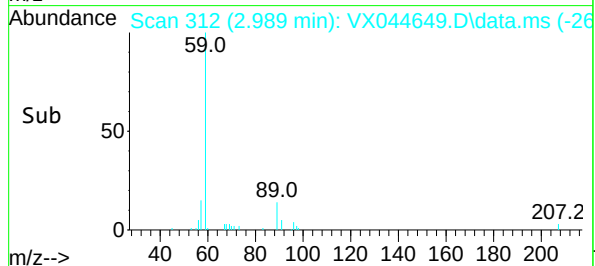
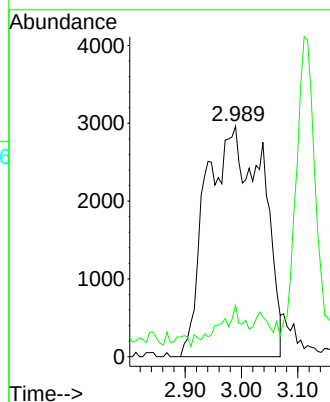
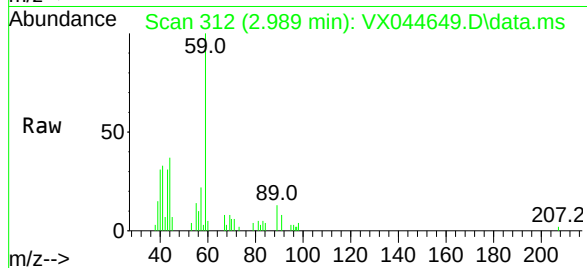
57 5.9 3.9 5.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#12

1,1-Dichloroethene

Concen: 4.667 ug/l

RT: 2.307 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

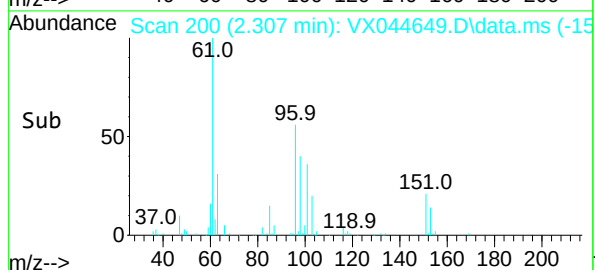
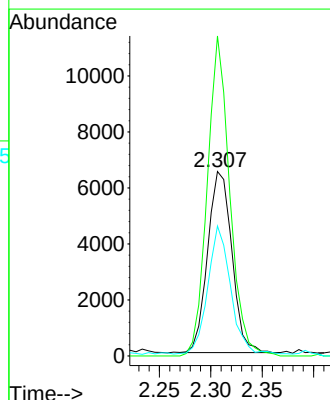
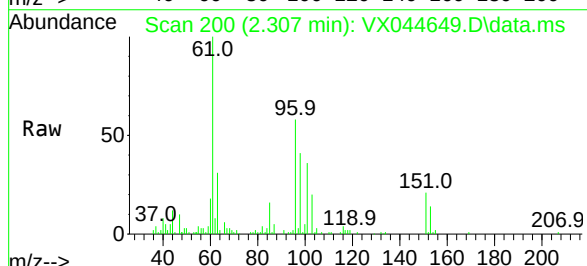
Tgt Ion: 96 Resp: 10636

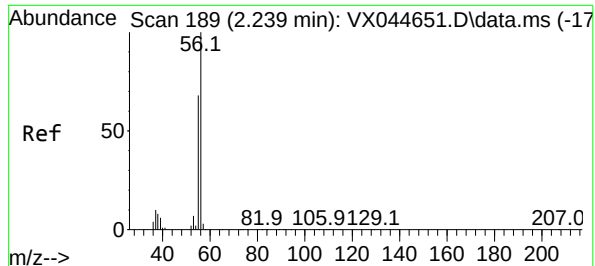
Ion Ratio Lower Upper

96 100

61 176.8 131.1 196.7

98 70.5 51.2 76.8





#13

Acrolein

Concen: 35.838 ug/l

RT: 2.239 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 1104

Ion Ratio Lower Upper

56 100

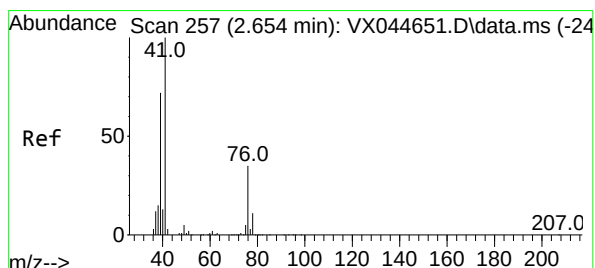
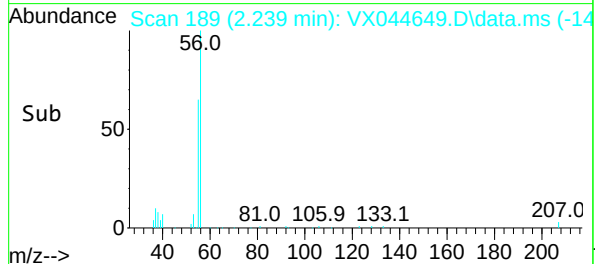
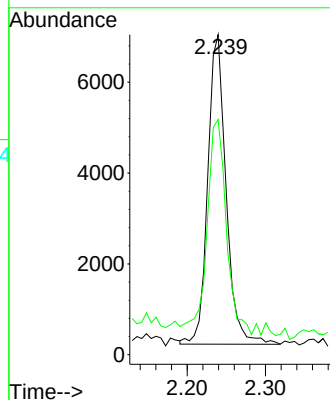
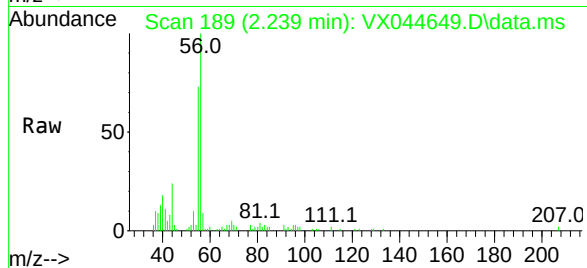
55 72.7 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#14

Allyl chloride

Concen: 4.901 ug/l

RT: 2.654 min Scan# 257

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

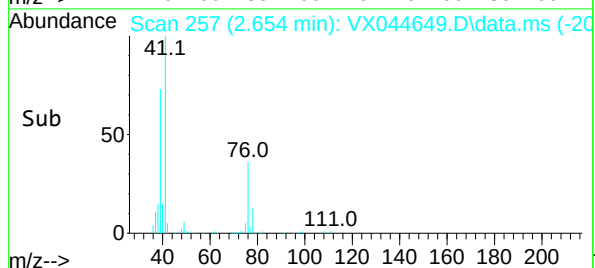
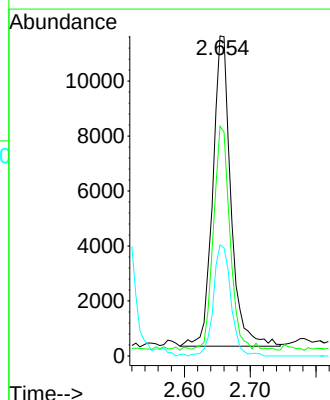
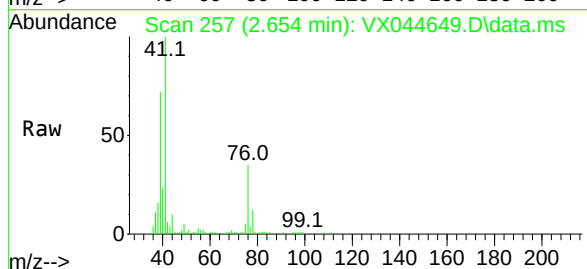
Tgt Ion: 41 Resp: 21748

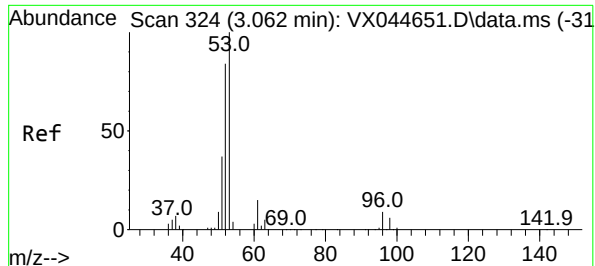
Ion Ratio Lower Upper

41 100

39 65.4 54.9 82.3

76 34.4 28.4 42.6





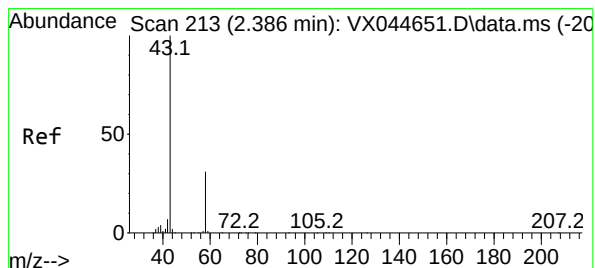
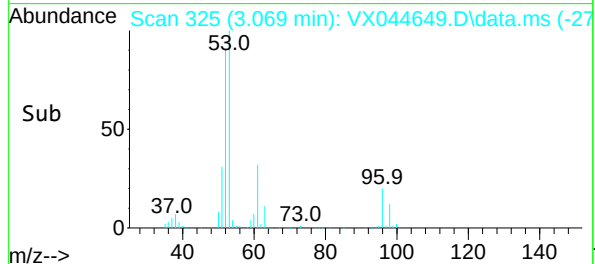
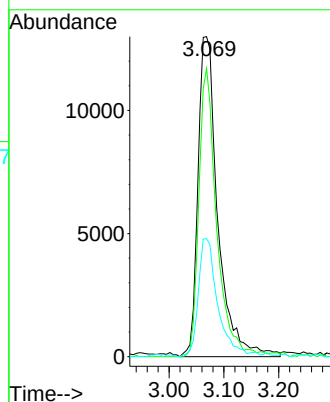
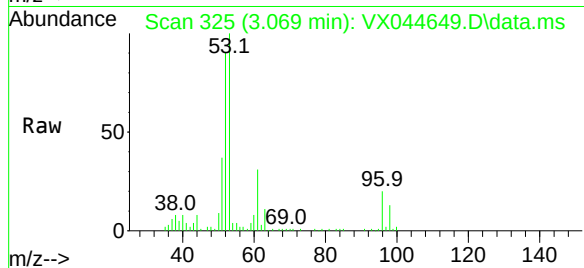
#15
Acrylonitrile
Concen: 25.521 ug/l
RT: 3.069 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 53 Resp: 3278
Ion Ratio Lower Upper
53 100
52 80.5 66.0 99.0
51 35.8 28.9 43.3

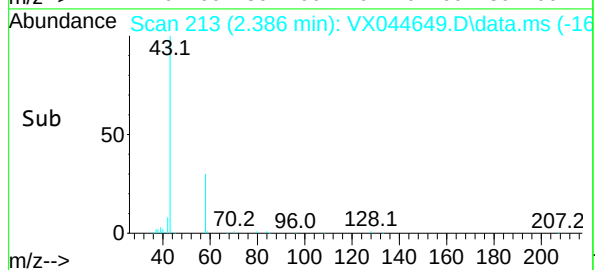
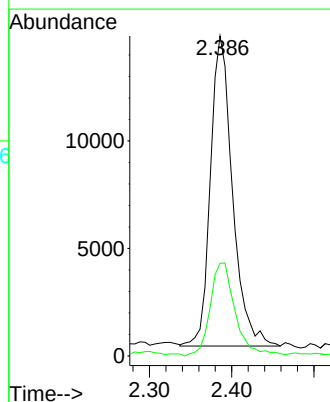
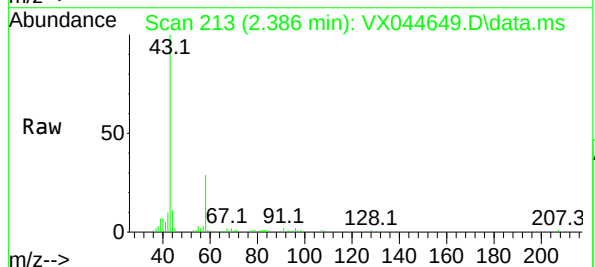
Manual Integrations
APPROVED

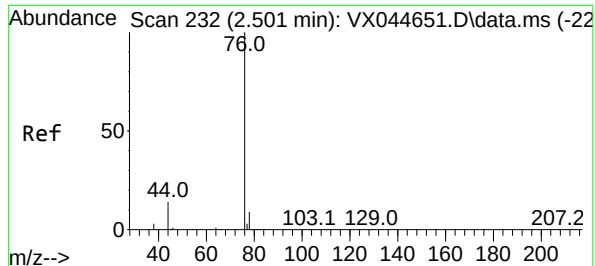
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#16
Acetone
Concen: 23.167 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

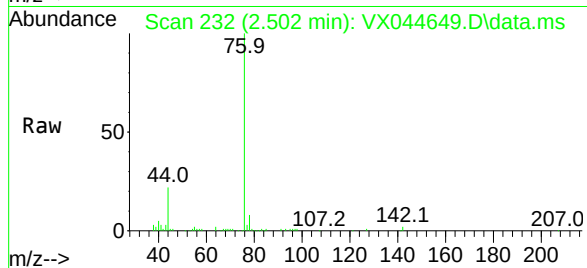
Tgt Ion: 43 Resp: 26927
Ion Ratio Lower Upper
43 100
58 29.2 24.6 37.0





#17
Carbon Disulfide
Concen: 4.869 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

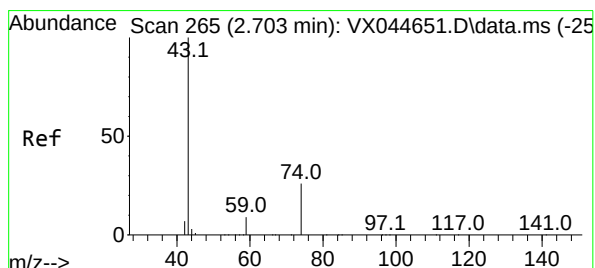
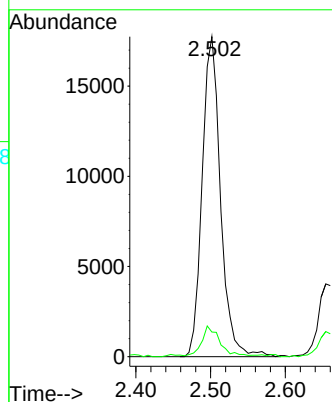
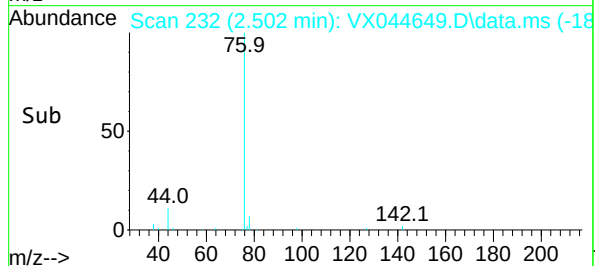
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 76 Resp: 30278
Ion Ratio Lower Upper
76 100
78 7.7 7.1 10.7

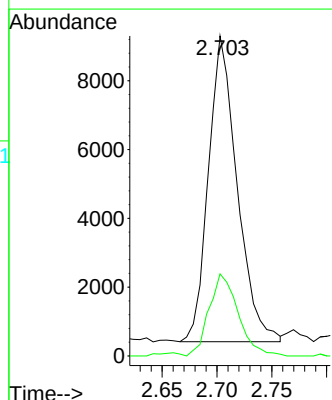
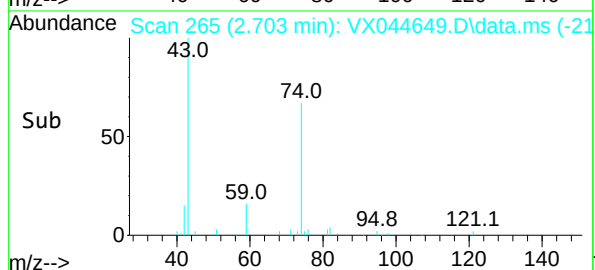
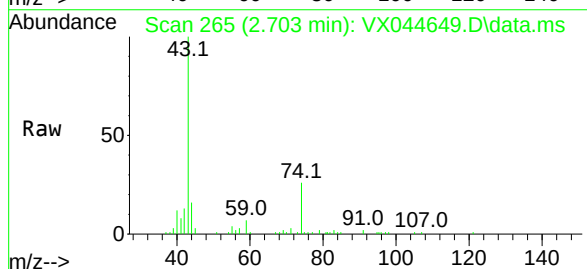
Manual Integrations
APPROVED

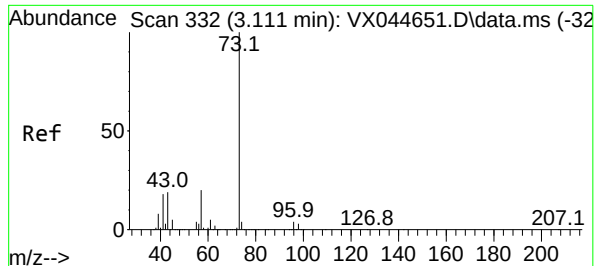
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#18
Methyl Acetate
Concen: 4.516 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

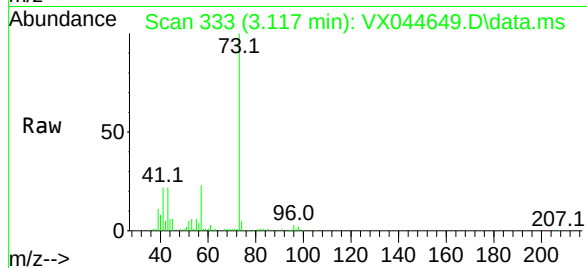
Tgt Ion: 43 Resp: 16192
Ion Ratio Lower Upper
43 100
74 27.3 19.8 29.8





#19
Methyl tert-butyl Ether
Concen: 4.998 ug/l
RT: 3.117 min Scan# 311
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

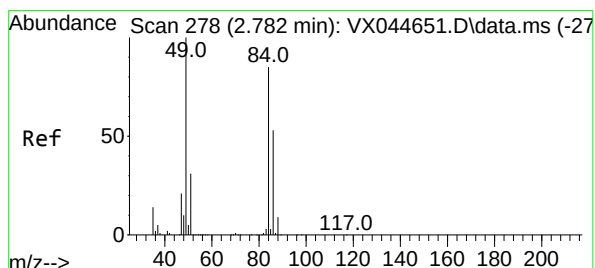
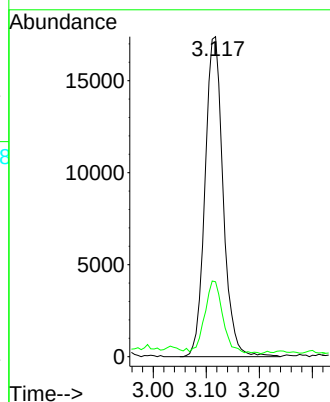
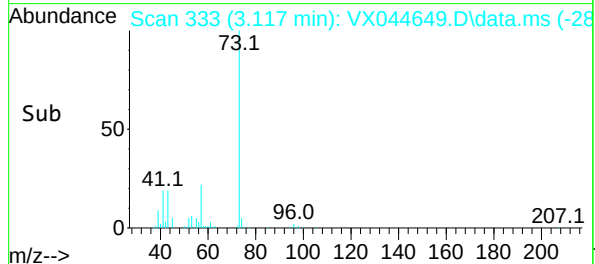
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 73 Resp: 41254
Ion Ratio Lower Upper
73 100
57 21.6 17.4 26.0

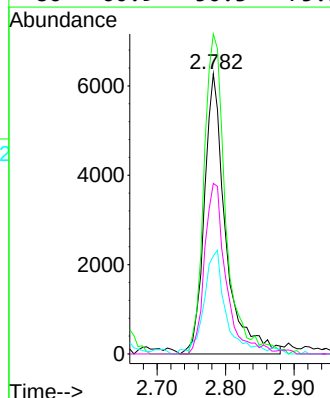
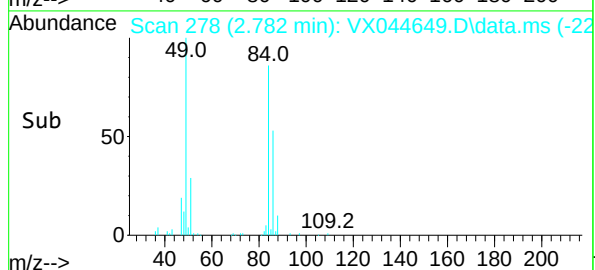
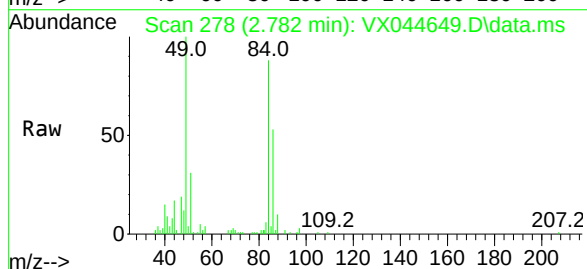
Manual Integrations
APPROVED

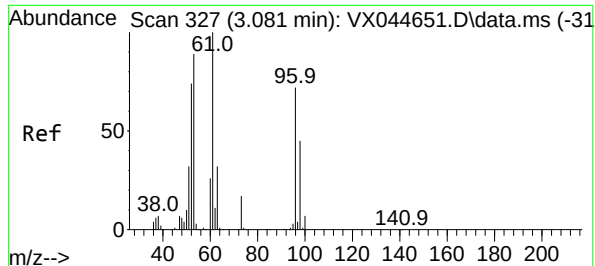
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#20
Methylene Chloride
Concen: 5.028 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

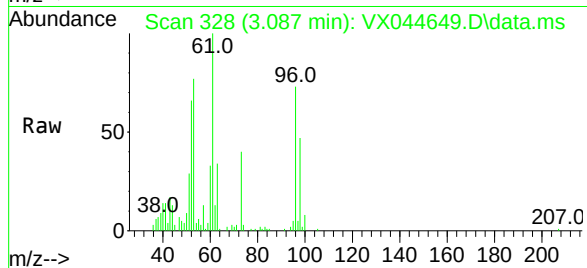
Tgt Ion: 84 Resp: 13610
Ion Ratio Lower Upper
84 100
49 114.2 94.2 141.4
51 33.5 28.8 43.2
86 60.9 50.3 75.5





#21
trans-1,2-Dichloroethene
Concen: 4.965 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

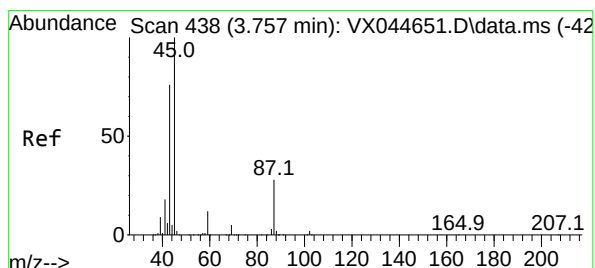
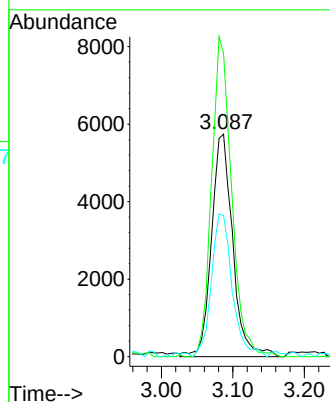
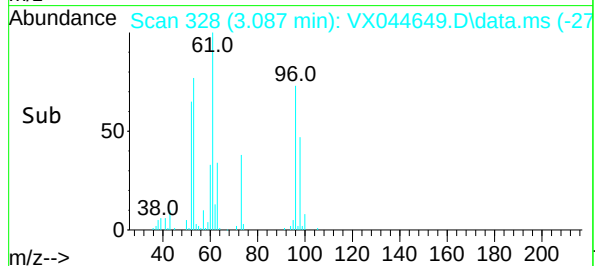
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 96 Resp: 1181
Ion Ratio Lower Upper
96 100
61 136.3 111.0 166.6
98 62.3 50.2 75.2

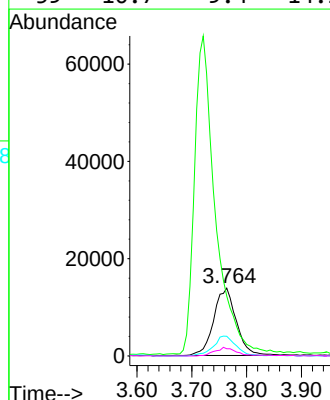
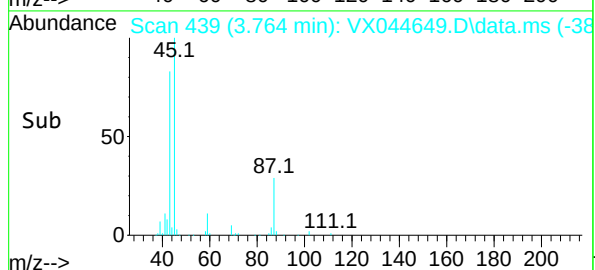
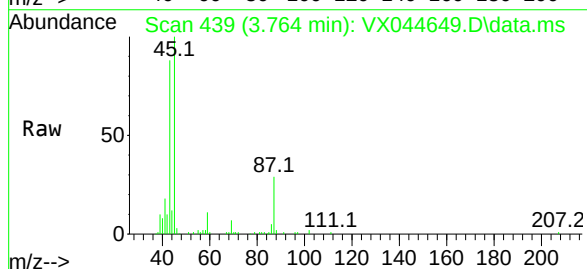
Manual Integrations
APPROVED

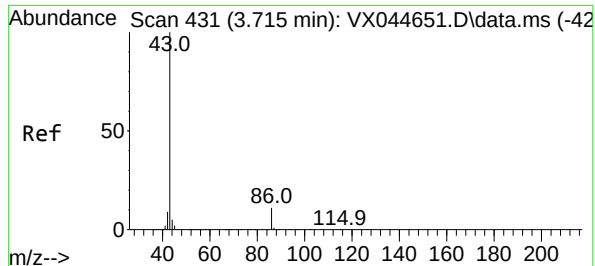
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#22
Diisopropyl ether
Concen: 5.149 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

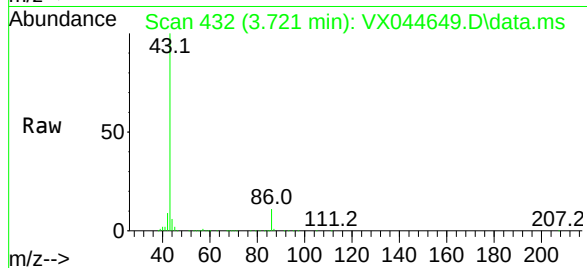
Tgt Ion: 45 Resp: 39716
Ion Ratio Lower Upper
45 100
43 85.7 61.0 91.6
87 29.1 22.7 34.1
59 10.7 9.4 14.2





#23
Vinyl Acetate
Concen: 26.022 ug/l
RT: 3.721 min Scan# 411
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

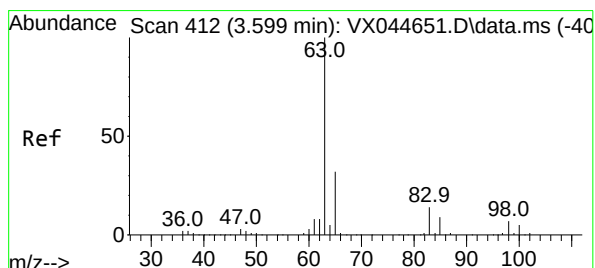
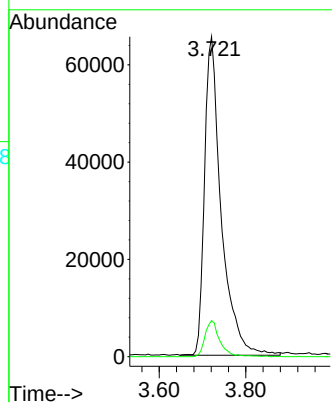
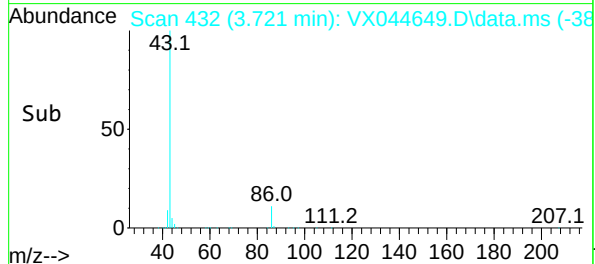
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



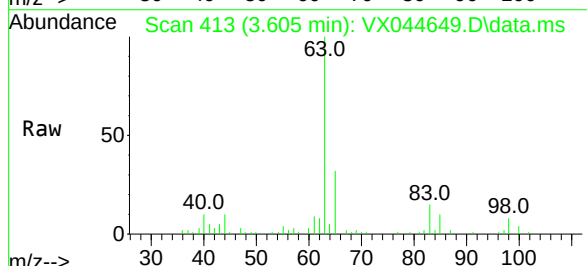
Tgt Ion: 43 Resp: 17566
Ion Ratio Lower Upper
43 100
86 11.3 8.9 13.3

Manual Integrations
APPROVED

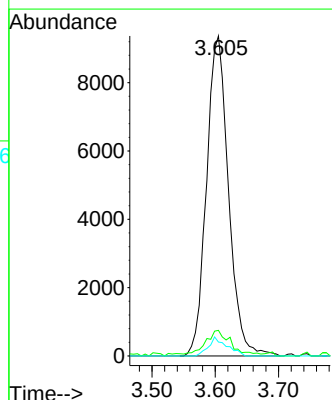
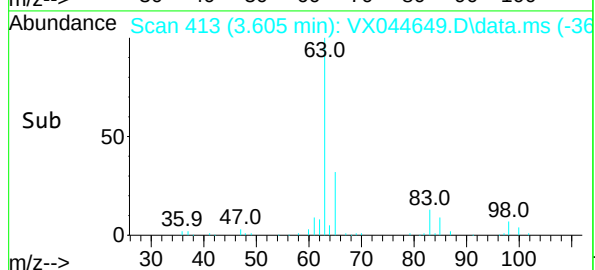
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

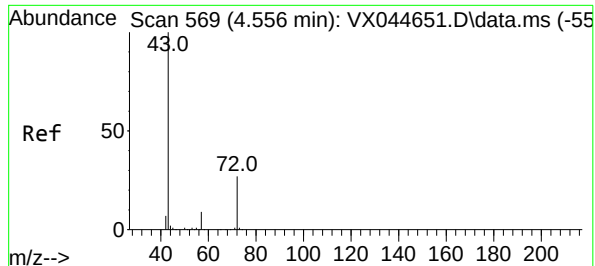


#24
1,1-Dichloroethane
Concen: 4.953 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17



Tgt Ion: 63 Resp: 22655
Ion Ratio Lower Upper
63 100
98 8.0 3.6 10.9
100 4.4 2.5 7.5





#25

2-Butanone

Concen: 25.004 ug/l

RT: 4.568 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 43210

Ion Ratio Lower Upper

43 100

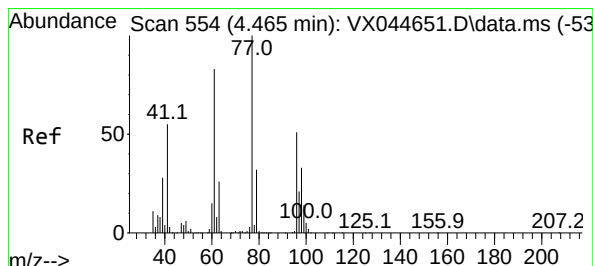
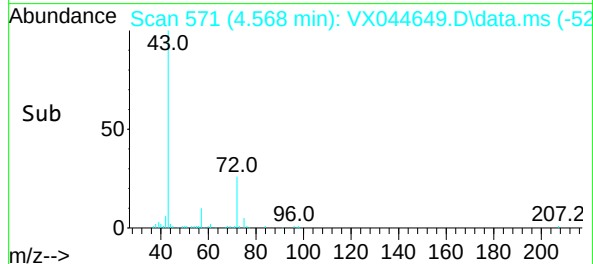
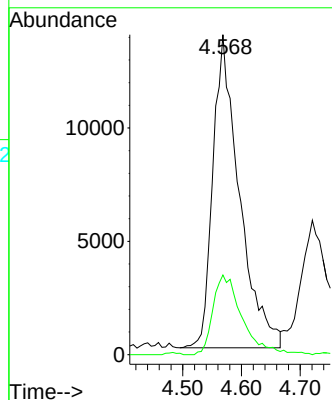
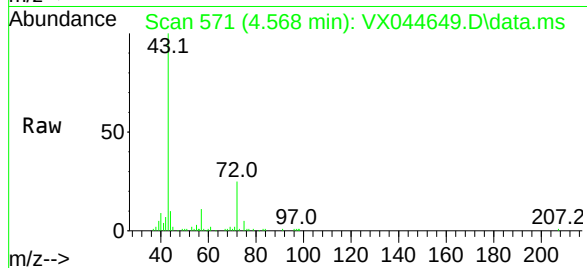
72 25.0 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#26

2,2-Dichloropropane

Concen: 4.957 ug/l

RT: 4.465 min Scan# 554

Delta R.T. 0.000 min

Lab File: VX044649.D

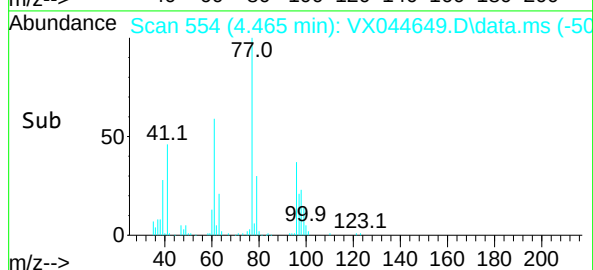
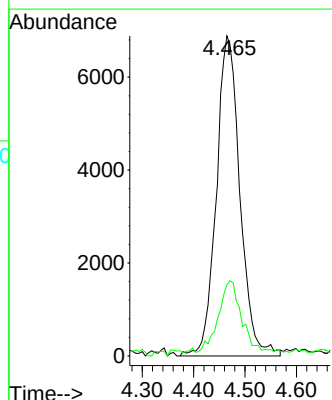
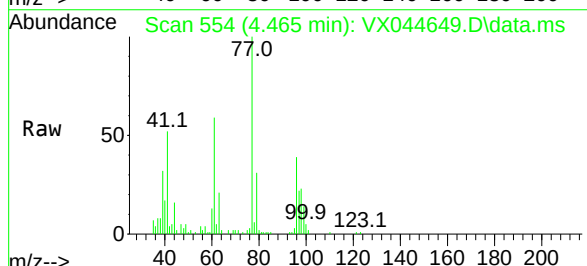
Acq: 15 Jan 2025 11:17

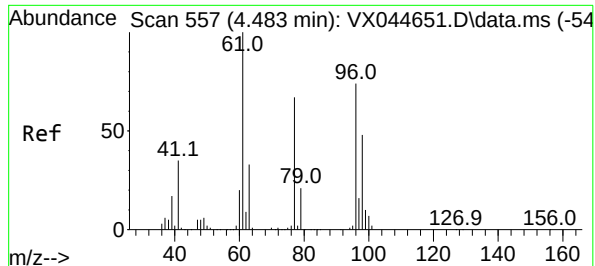
Tgt Ion: 77 Resp: 21972

Ion Ratio Lower Upper

77 100

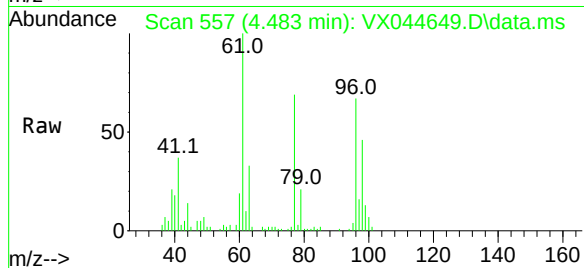
97 22.5 10.9 32.6





#27
cis-1,2-Dichloroethene
Concen: 4.777 ug/l
RT: 4.483 min Scan# 511
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

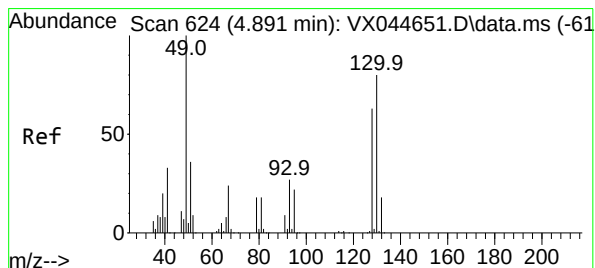
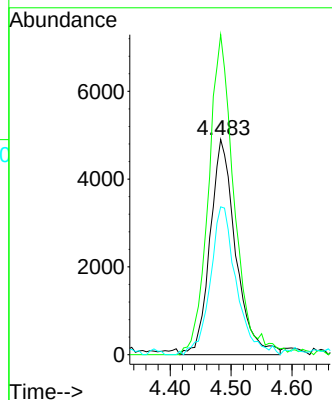
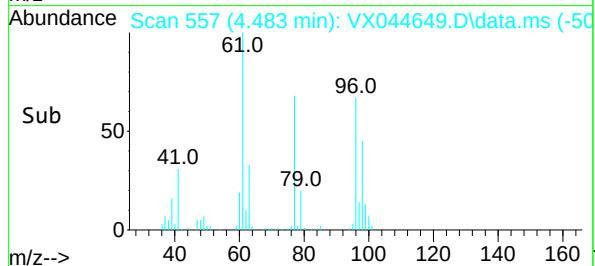
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 96 Resp: 1429
Ion Ratio Lower Upper
96 100
61 149.1 0.0 296.0
98 70.1 0.0 130.0

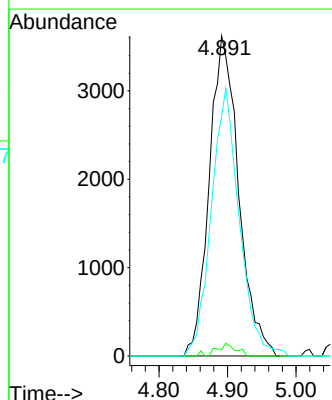
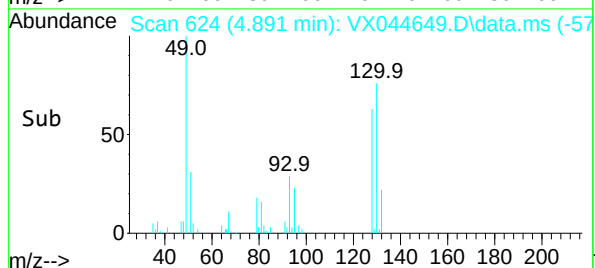
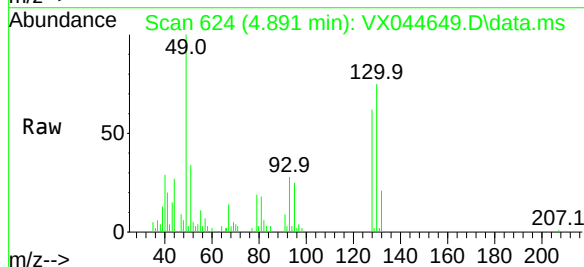
Manual Integrations
APPROVED

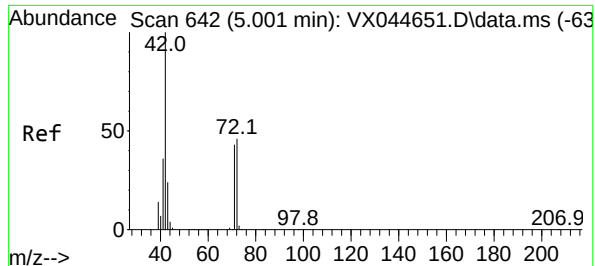
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#28
Bromochloromethane
Concen: 5.046 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 49 Resp: 10785
Ion Ratio Lower Upper
49 100
129 2.4 0.0 4.4
130 79.7 63.4 95.2





#29

Tetrahydrofuran

Concen: 24.762 ug/l

RT: 5.007 min Scan# 642

Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

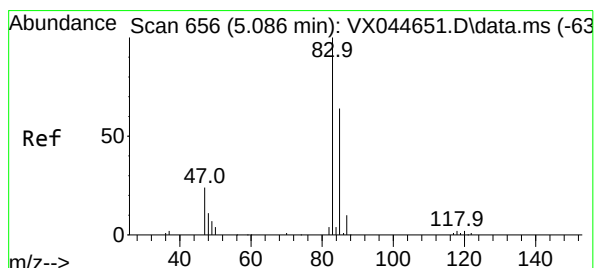
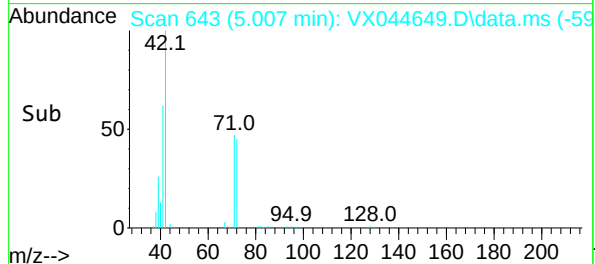
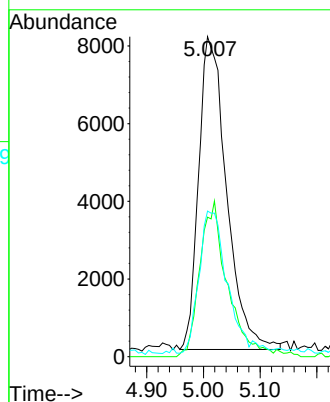
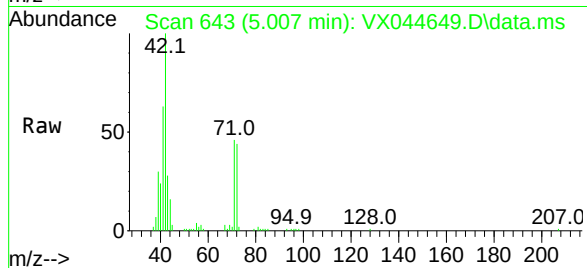
VSTDIC005

Tgt Ion:	42	Resp:	2760
Ion	Ratio	Lower	Upper
42	100		
72	48.8	38.2	57.4
71	46.1	35.3	52.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#30

Chloroform

Concen: 5.169 ug/l

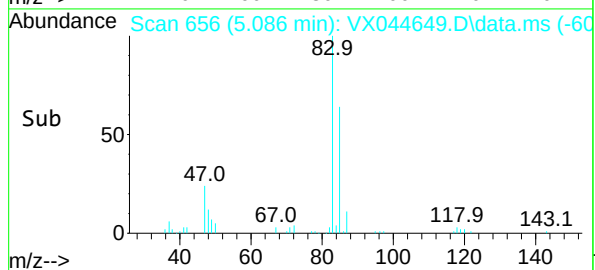
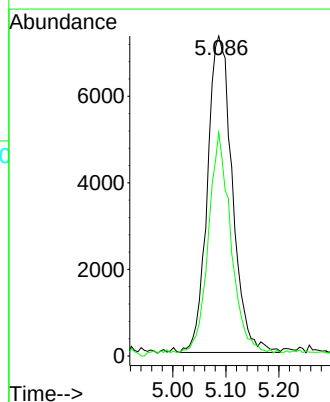
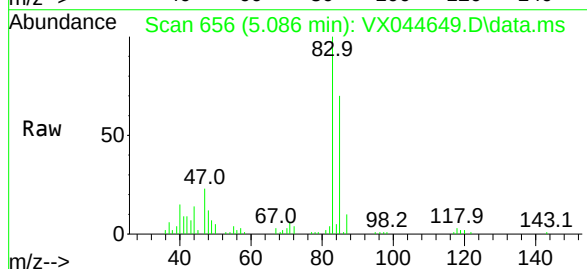
RT: 5.086 min Scan# 656

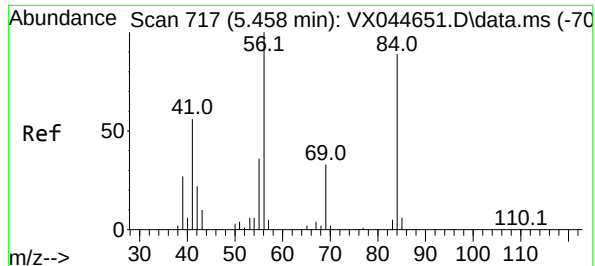
Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Tgt Ion:	83	Resp:	23860
Ion	Ratio	Lower	Upper
83	100		
85	69.4	51.2	76.8





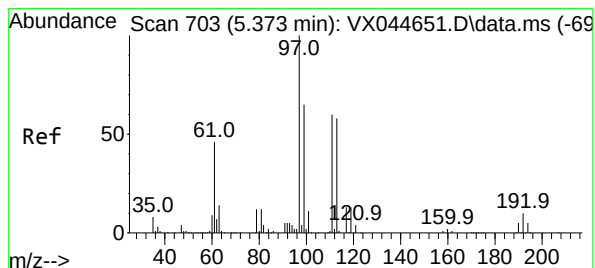
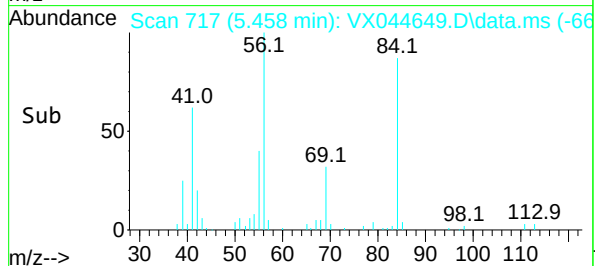
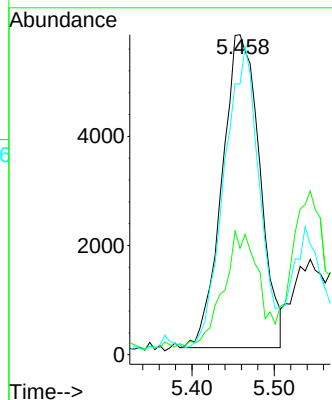
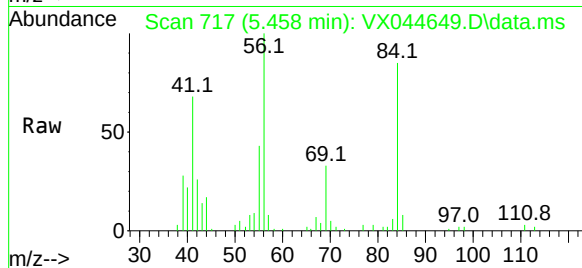
#31
Cyclohexane
Concen: 4.934 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 56 Resp: 1825
Ion Ratio Lower Upper
56 100
69 30.5 26.8 40.2
84 83.4 71.0 106.4

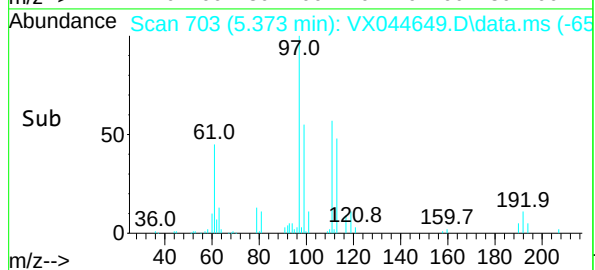
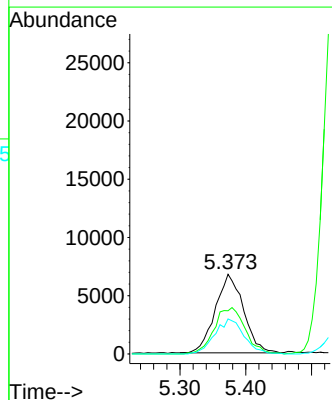
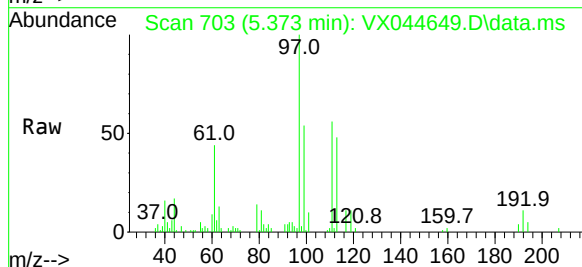
Manual Integrations
APPROVED

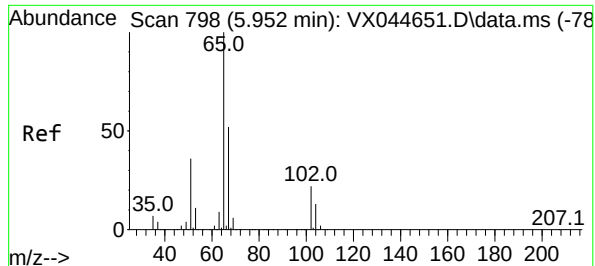
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#32
1,1,1-Trichloroethane
Concen: 4.753 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 97 Resp: 20169
Ion Ratio Lower Upper
97 100
99 64.4 51.6 77.4
61 45.9 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 5.717 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 1679

Ion Ratio Lower Upper

65 100

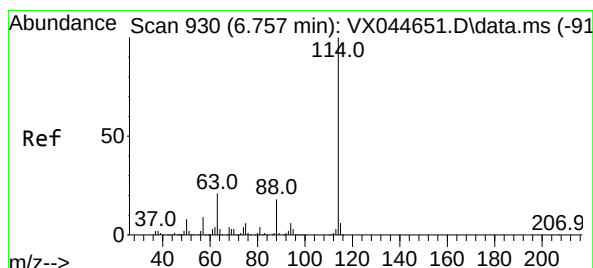
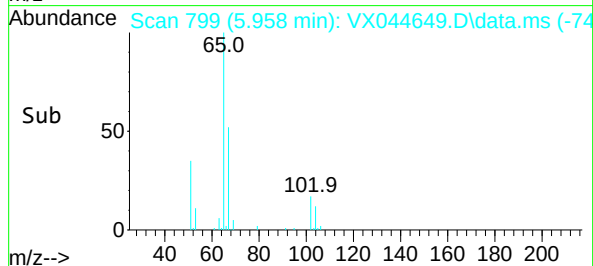
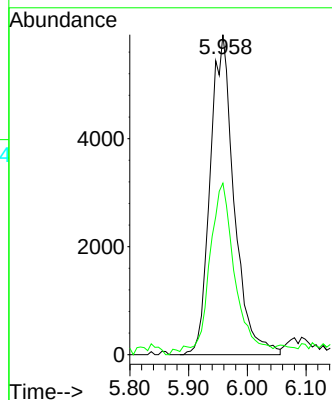
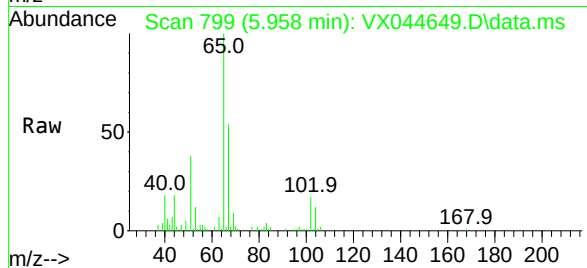
67 56.9 0.0 103.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

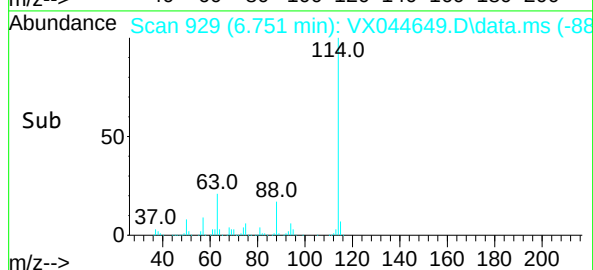
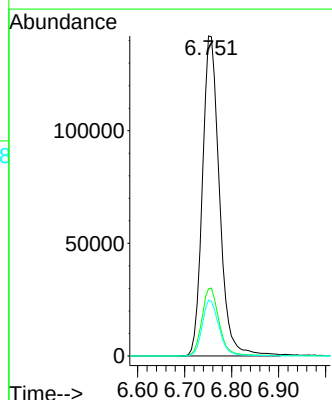
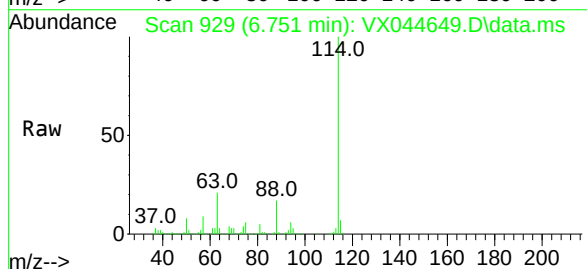
Tgt Ion:114 Resp: 357706

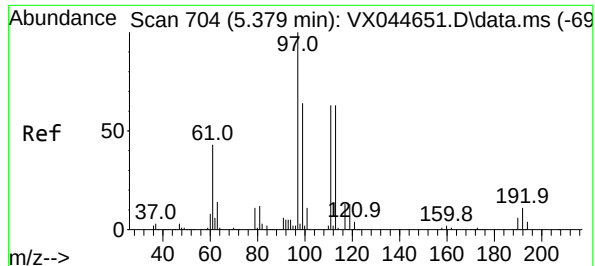
Ion Ratio Lower Upper

114 100

63 21.0 0.0 43.0

88 17.4 0.0 35.4





#35

Dibromofluoromethane

Concen: 5.594 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

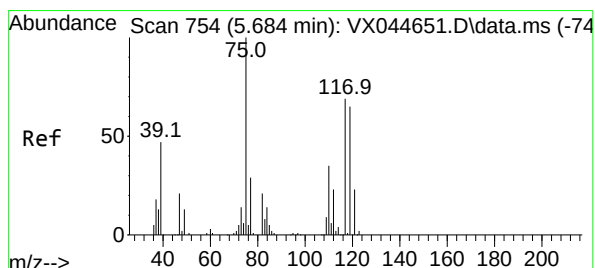
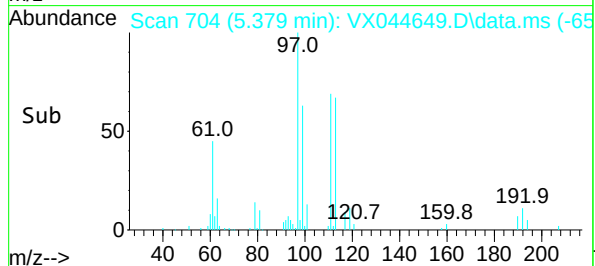
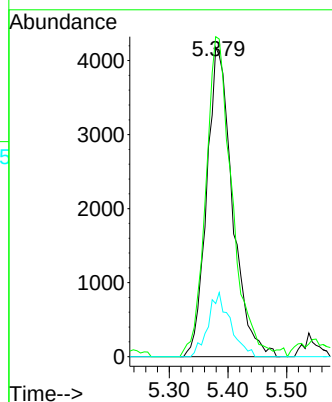
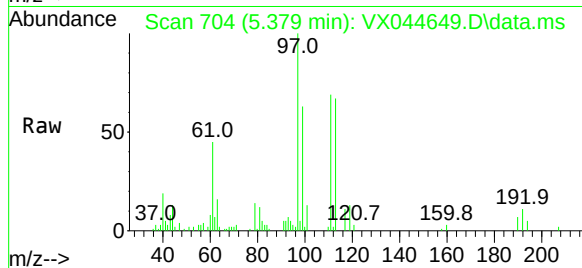
Tgt Ion:	113	Resp:	1271
Ion	Ratio	Lower	Upper
113	100		
111	105.1	81.6	122.4
192	17.9	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#36

1,1-Dichloropropene

Concen: 4.754 ug/l

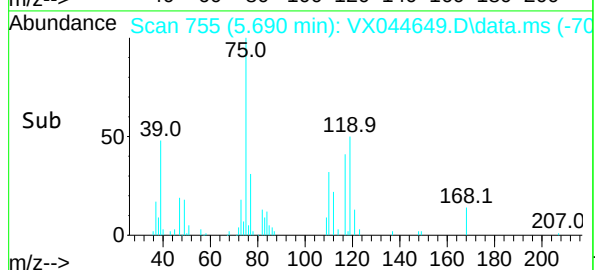
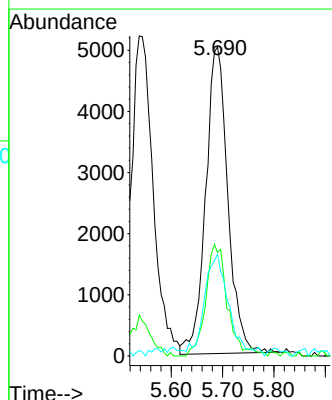
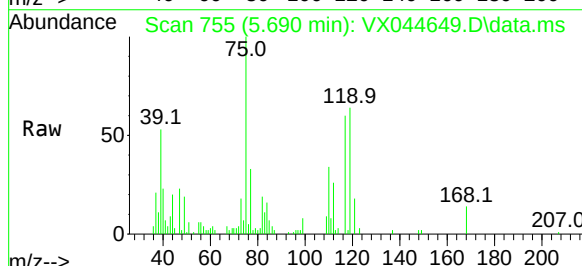
RT: 5.690 min Scan# 755

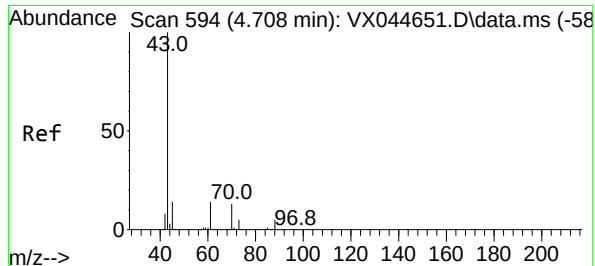
Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Tgt Ion:	75	Resp:	15040
Ion	Ratio	Lower	Upper
75	100		
110	34.8	17.9	53.8
77	36.6	24.5	36.7





#37

Ethyl Acetate

Concen: 5.150 ug/l

RT: 4.721 min Scan# 594

Delta R.T. 0.012 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

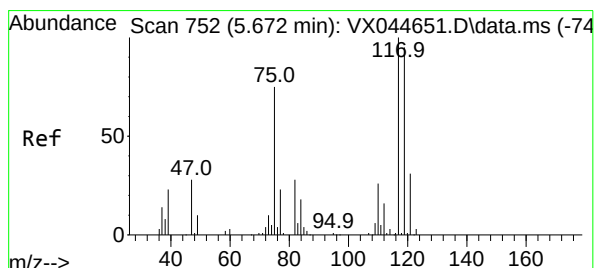
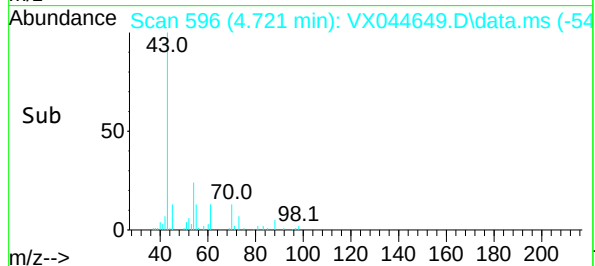
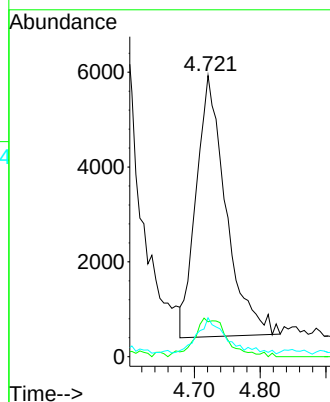
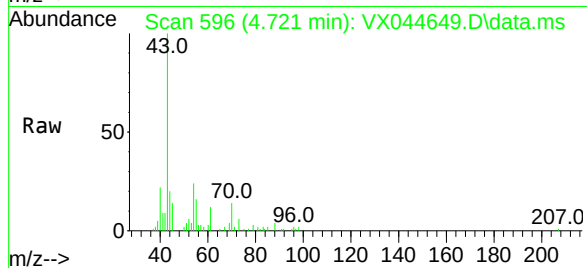
Tgt Ion:	43	Resp:	17349
Ion	Ratio	Lower	Upper
43	100		
61	16.3	10.9	16.3
70	14.1	10.1	15.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#38

Carbon Tetrachloride

Concen: 5.054 ug/l

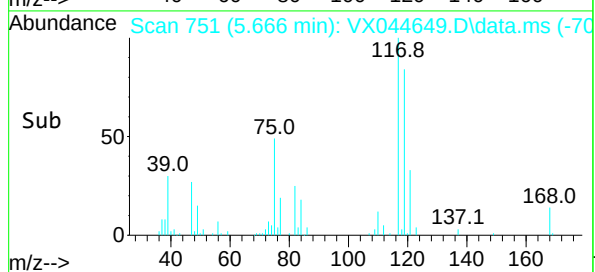
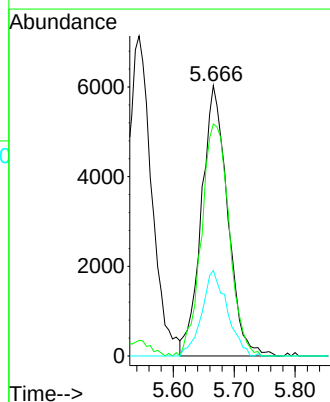
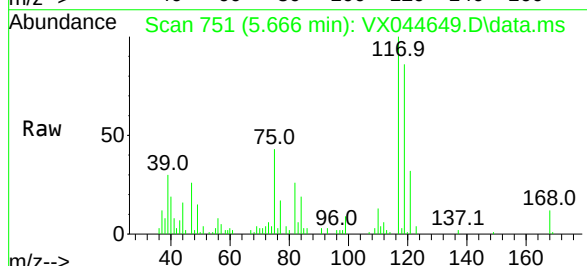
RT: 5.666 min Scan# 751

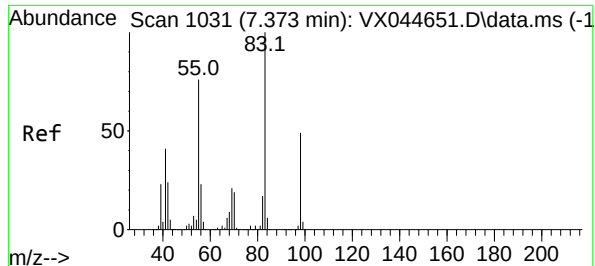
Delta R.T. -0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Tgt Ion:	117	Resp:	17983
Ion	Ratio	Lower	Upper
117	100		
119	85.8	76.0	114.0
121	31.6	24.6	36.8





#39

Methylcyclohexane

Concen: 4.727 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 1984

Ion Ratio Lower Upper

83 100

55 72.0 60.5 90.7

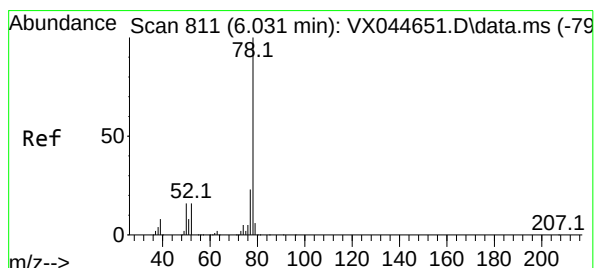
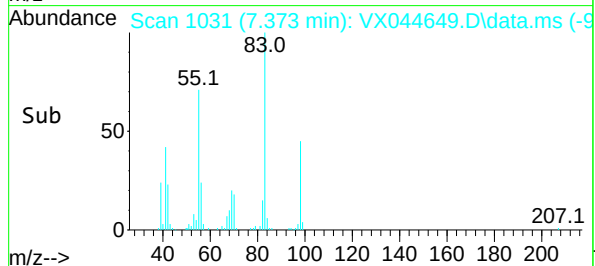
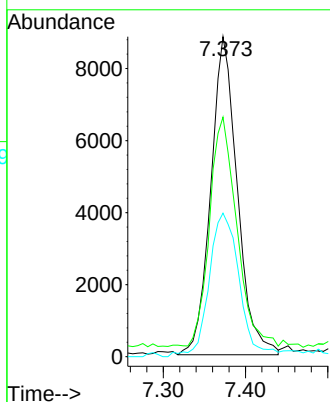
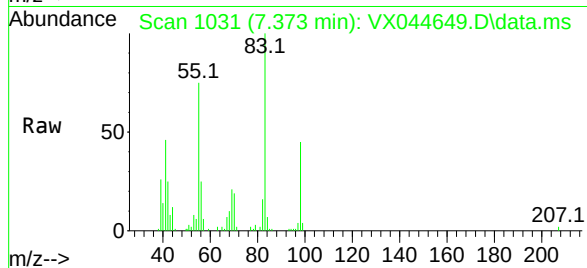
98 44.2 39.0 58.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#40

Benzene

Concen: 5.023 ug/l

RT: 6.038 min Scan# 812

Delta R.T. 0.006 min

Lab File: VX044649.D

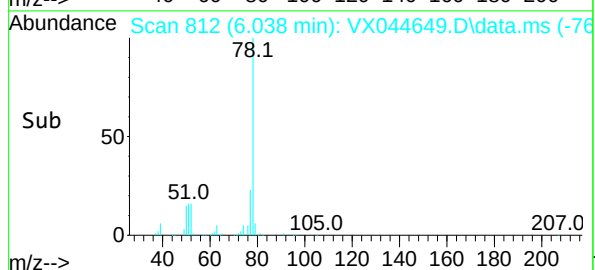
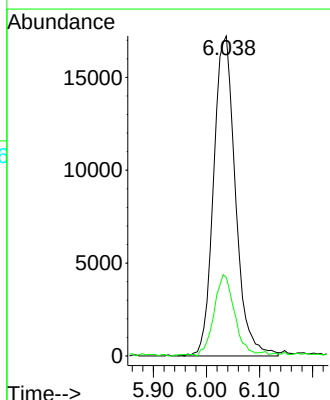
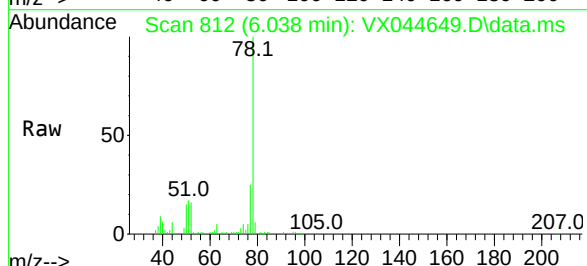
Acq: 15 Jan 2025 11:17

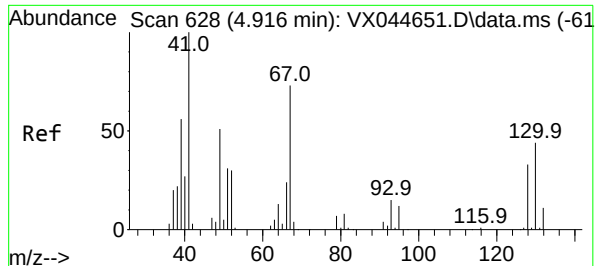
Tgt Ion: 78 Resp: 49235

Ion Ratio Lower Upper

78 100

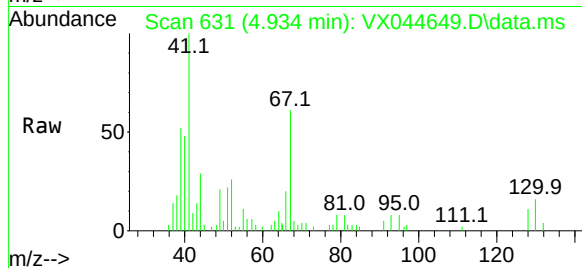
77 24.2 18.7 28.1





#41
Methacrylonitrile
Concen: 5.124 ug/l
RT: 4.934 min Scan# 61
Delta R.T. 0.018 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

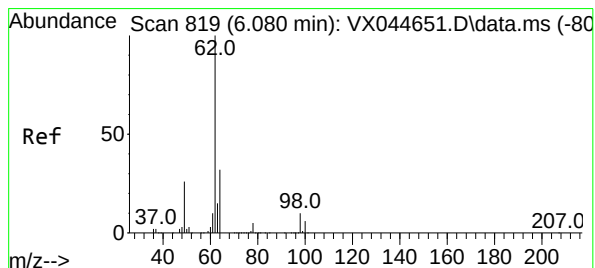
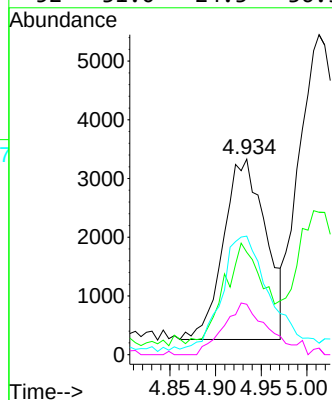
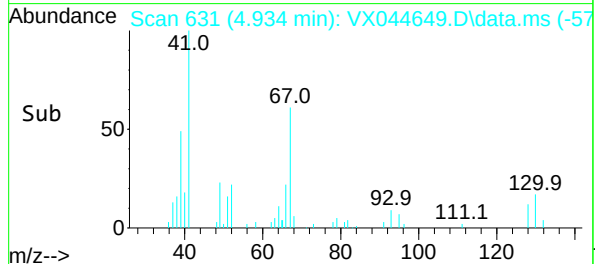
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 41 Resp: 9920
Ion Ratio Lower Upper
41 100
39 52.9 44.4 66.6
67 74.3 60.6 90.8
52 31.0 24.3 36.5

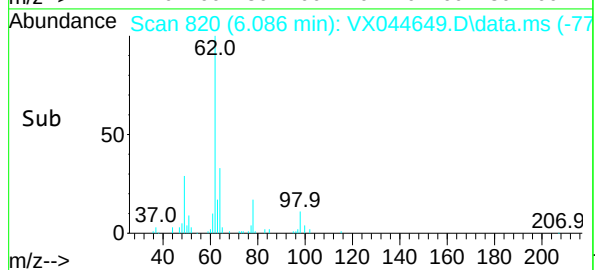
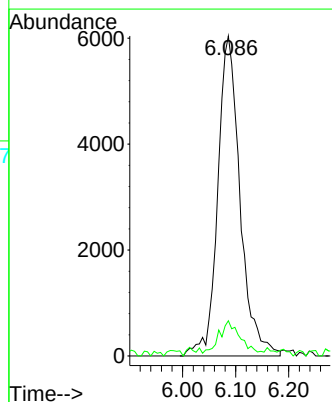
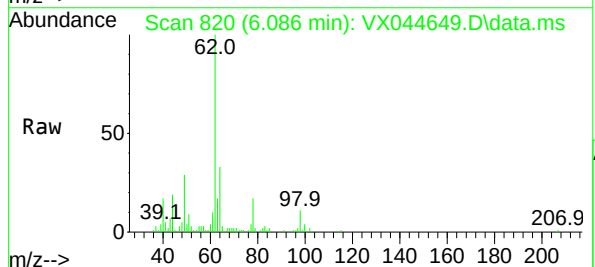
Manual Integrations
APPROVED

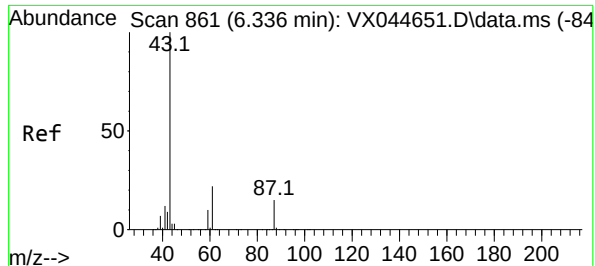
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#42
1,2-Dichloroethane
Concen: 4.941 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 62 Resp: 17678
Ion Ratio Lower Upper
62 100
98 10.9 0.0 19.4





#43

Isopropyl Acetate

Concen: 4.877 ug/l

RT: 6.342 min Scan# 80

Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

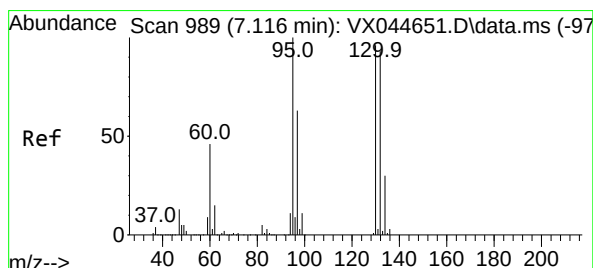
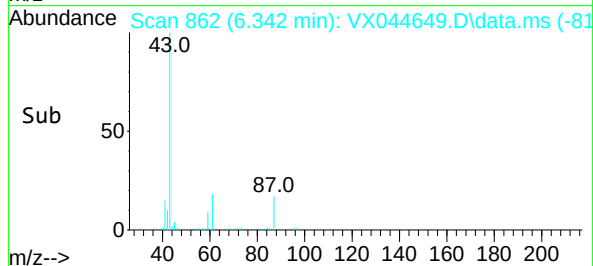
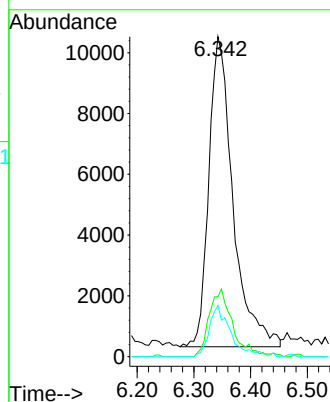
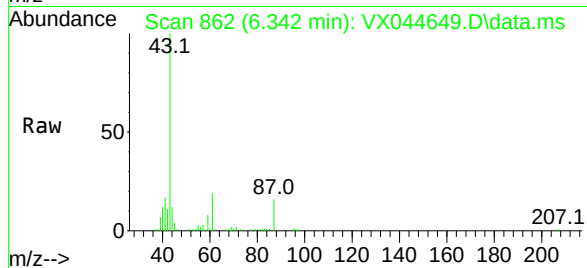
Tgt Ion: 43	Resp: 30220
Ion Ratio	Lower Upper
43	100
61	21.0 16.6 24.8
87	14.7 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#44

Trichloroethene

Concen: 4.849 ug/l

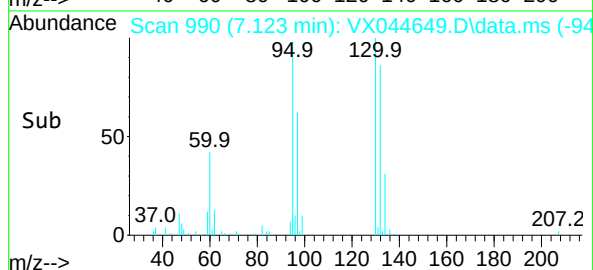
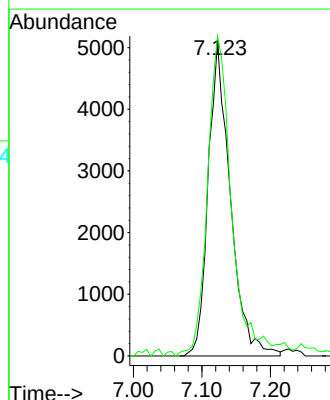
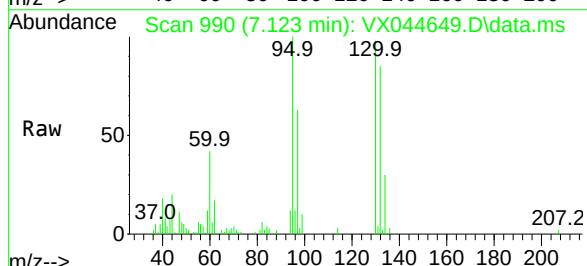
RT: 7.123 min Scan# 990

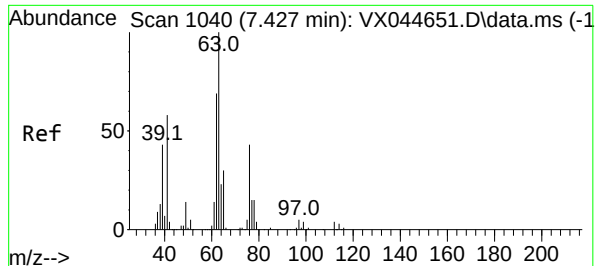
Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Tgt Ion:130	Resp: 11427
Ion Ratio	Lower Upper
130	100
95	100.7 0.0 208.2





#45

1,2-Dichloropropane

Concen: 5.199 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 12829

Ion Ratio Lower Upper

63 100

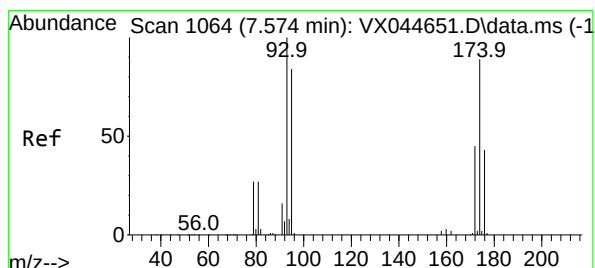
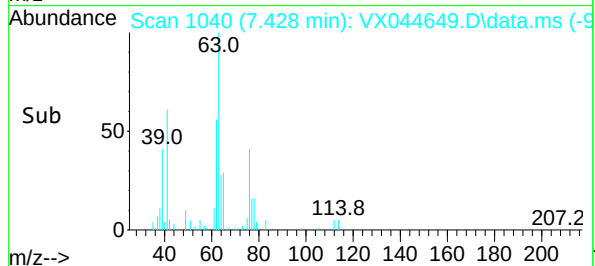
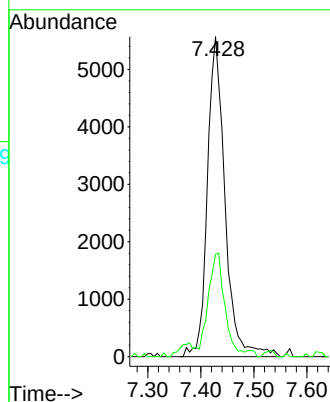
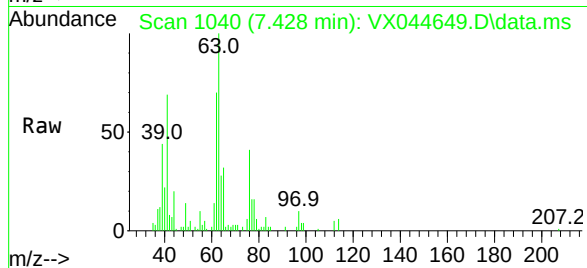
65 32.0 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#46

Dibromomethane

Concen: 5.156 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

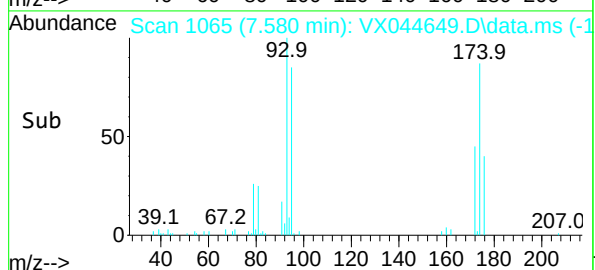
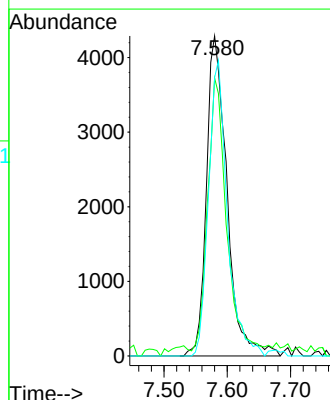
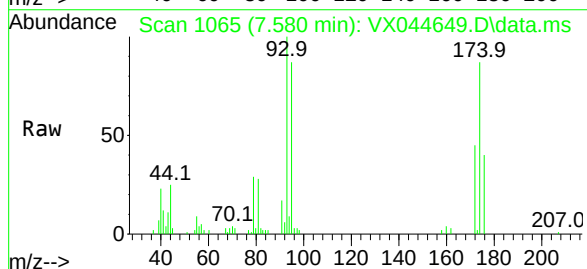
Tgt Ion: 93 Resp: 9684

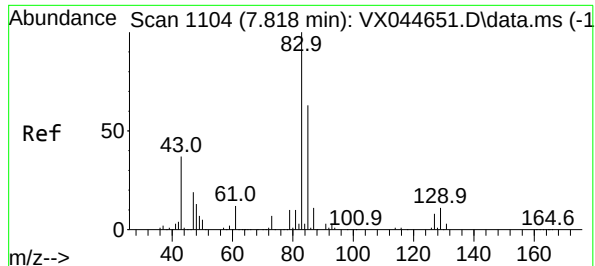
Ion Ratio Lower Upper

93 100

95 77.5 66.4 99.6

174 84.6 72.0 108.0





#47

Bromodichloromethane

Concen: 4.923 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

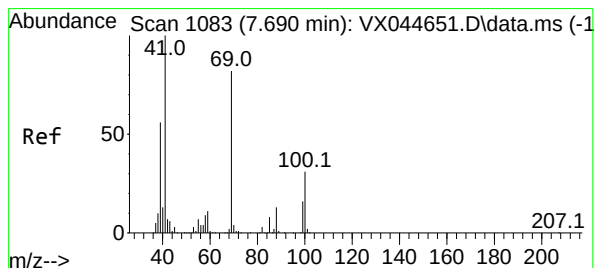
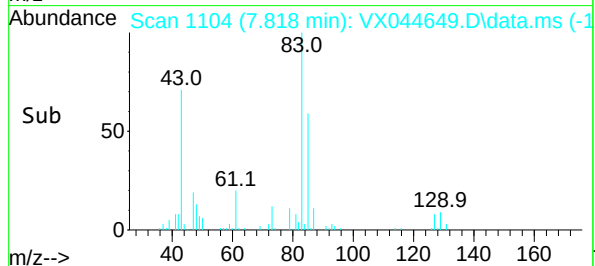
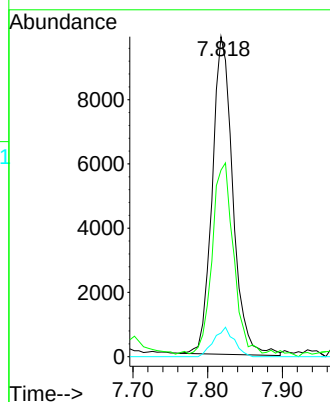
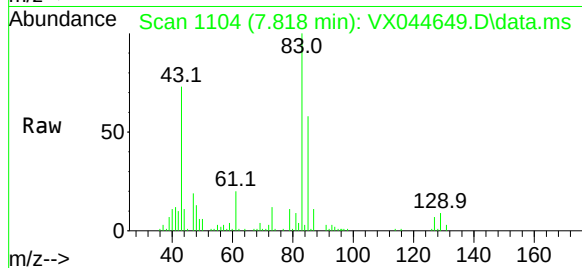
Tgt Ion:	83	Resp:	1896
Ion	Ratio	Lower	Upper
83	100		
85	57.7	50.1	75.1
127	7.5	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#48

Methyl methacrylate

Concen: 4.844 ug/l

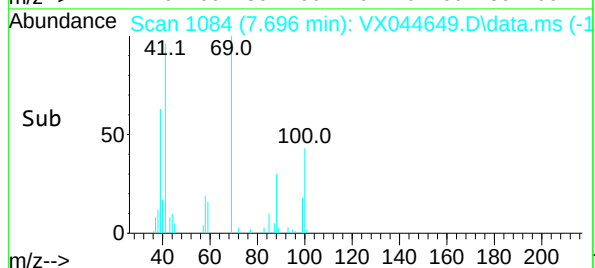
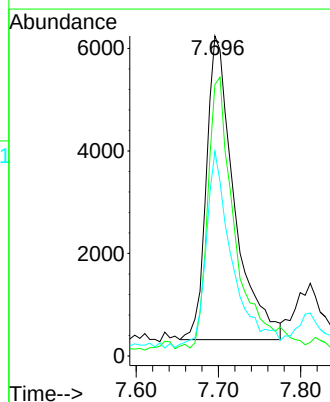
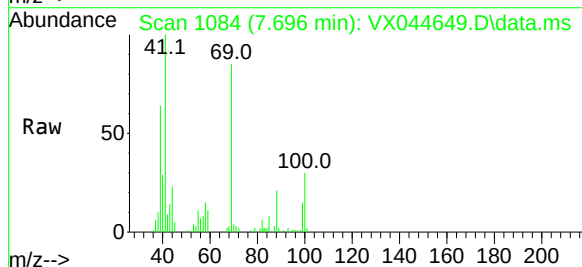
RT: 7.696 min Scan# 1084

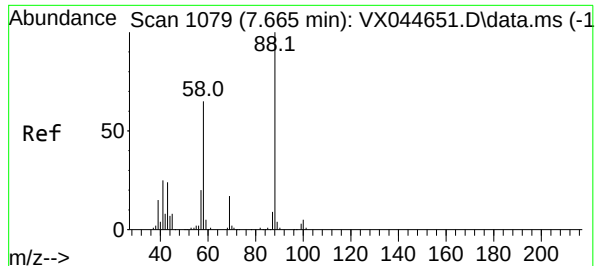
Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Tgt Ion:	41	Resp:	13933
Ion	Ratio	Lower	Upper
41	100		
69	86.9	66.8	100.2
39	60.6	47.4	71.0





#49

1,4-Dioxane

Concen: 94.542 ug/l

RT: 7.677 min Scan# 1079

Delta R.T. 0.012 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

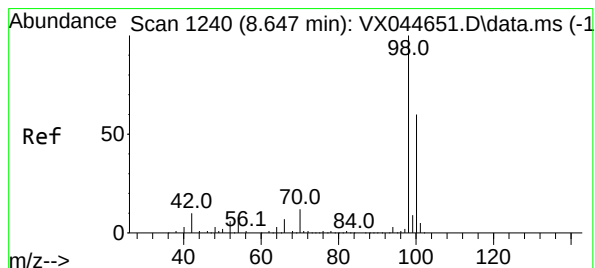
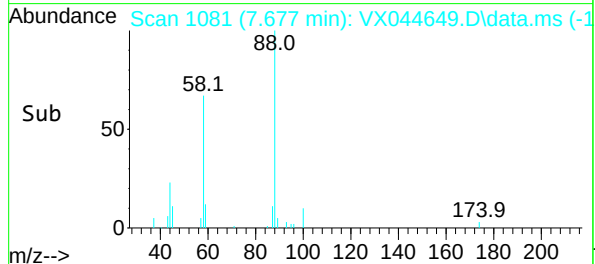
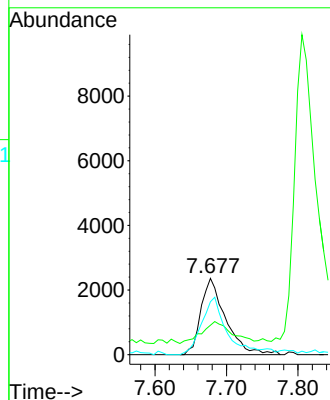
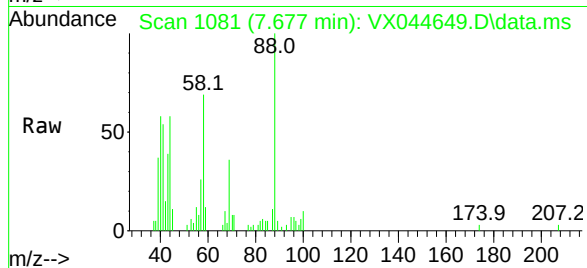
Tgt Ion:	88	Resp:	5674
Ion	Ratio	Lower	Upper
88	100		
43	34.3	27.0	40.4
58	74.9	55.8	83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#50

Toluene-d8

Concen: 5.733 ug/l

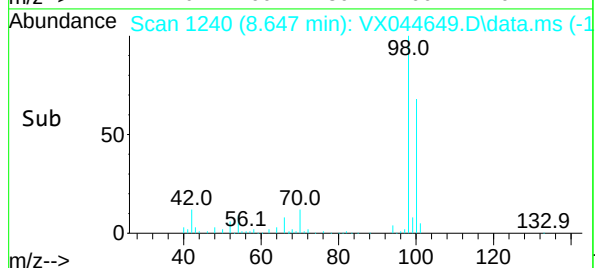
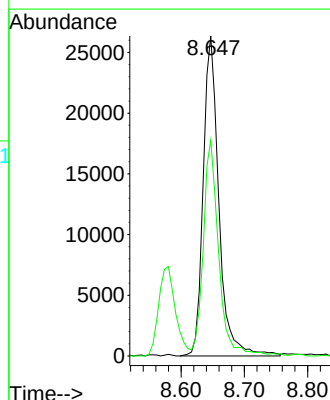
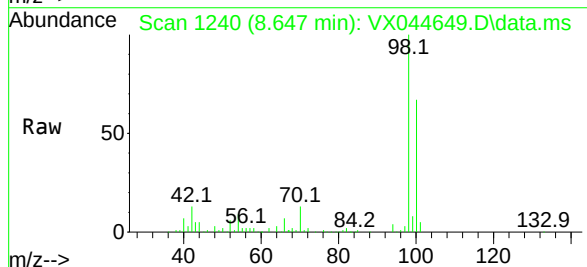
RT: 8.647 min Scan# 1240

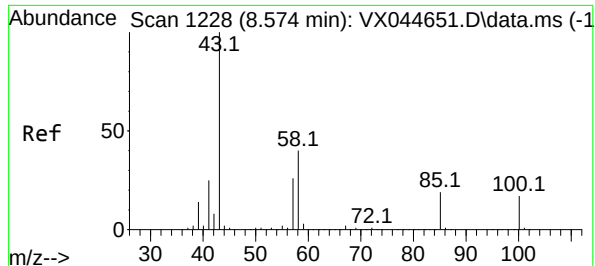
Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Tgt Ion:	98	Resp:	45425
Ion	Ratio	Lower	Upper
98	100		
100	64.1	53.2	79.8





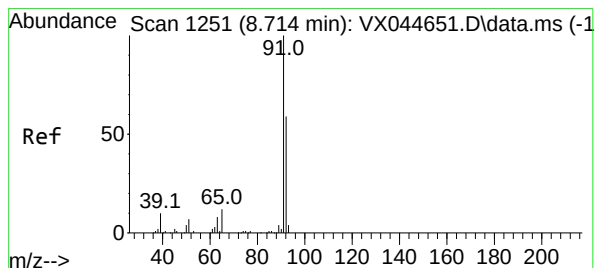
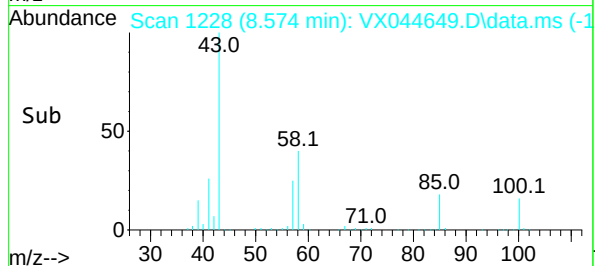
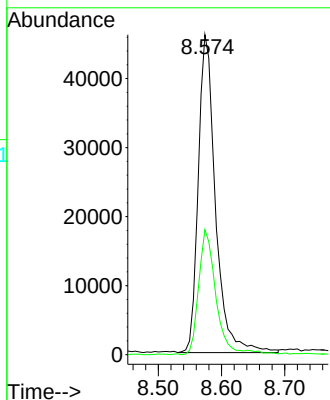
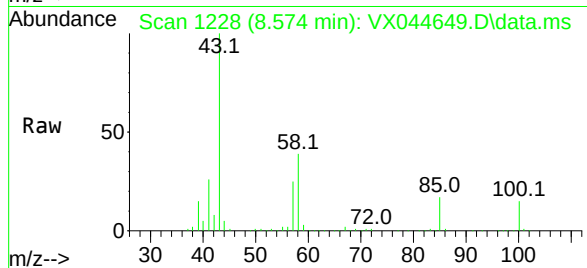
#51
4-Methyl-2-Pentanone
Concen: 25.551 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 8750
Ion Ratio Lower Upper
43 100
58 38.4 31.9 47.9

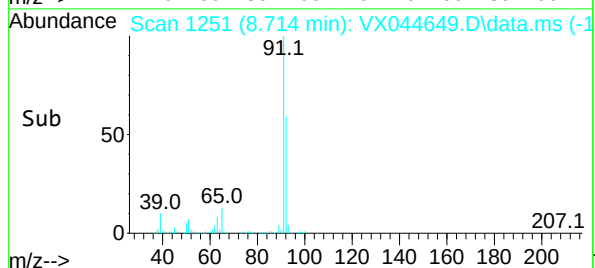
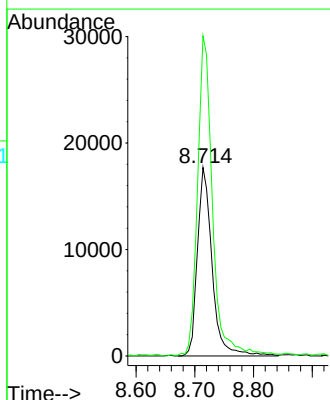
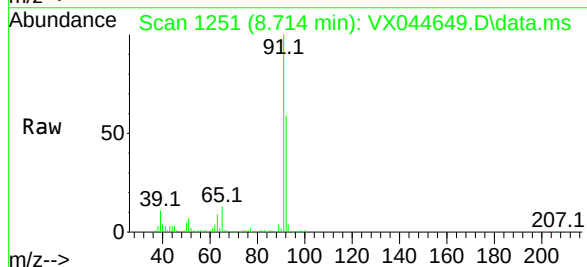
Manual Integrations
APPROVED

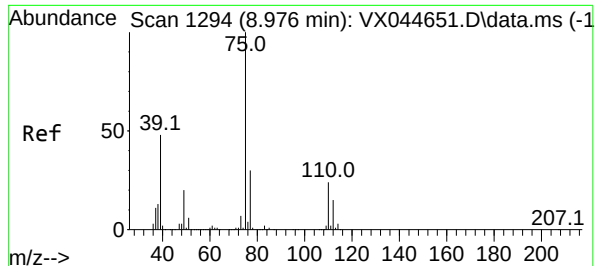
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#52
Toluene
Concen: 5.149 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 92 Resp: 30892
Ion Ratio Lower Upper
92 100
91 173.3 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 4.954 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 19714

Ion Ratio Lower Upper

75 100

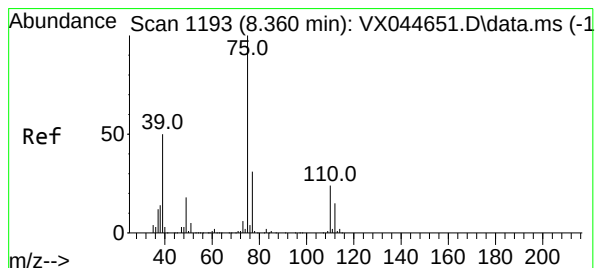
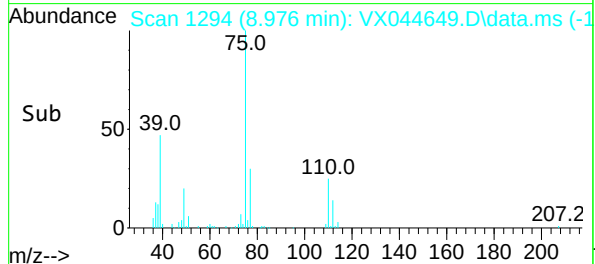
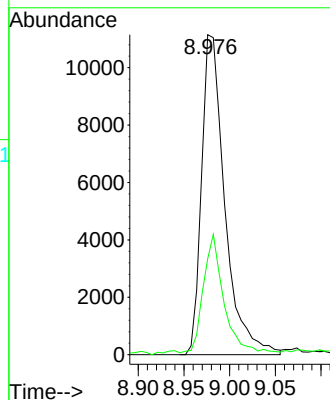
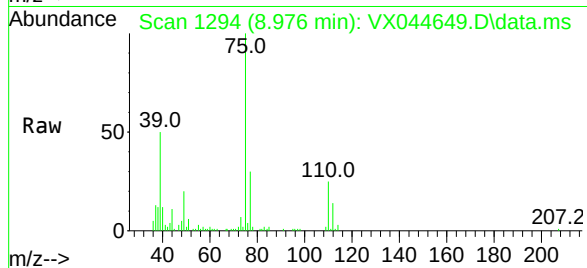
77 29.4 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#54

cis-1,3-Dichloropropene

Concen: 4.879 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

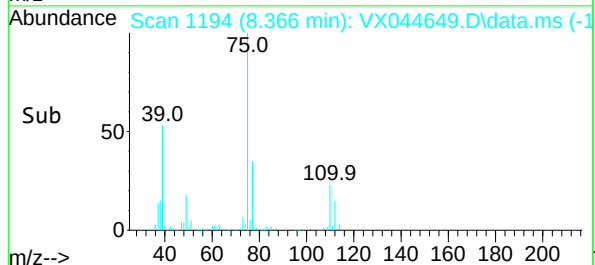
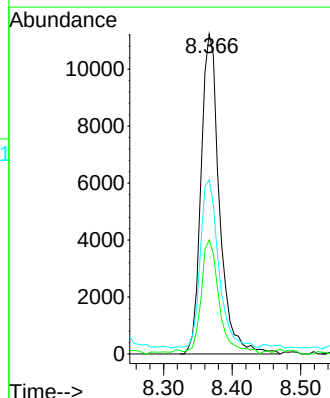
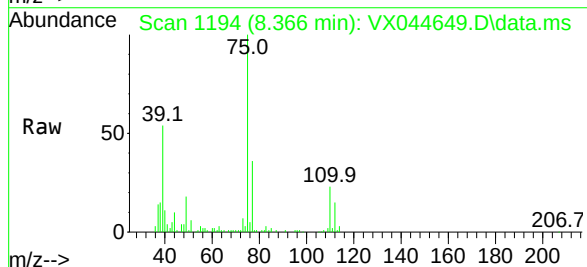
Tgt Ion: 75 Resp: 21054

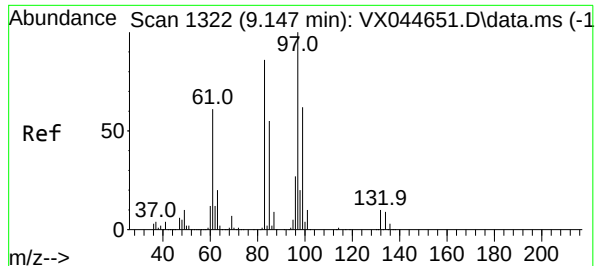
Ion Ratio Lower Upper

75 100

77 34.6 25.1 37.7

39 52.2 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 5.037 ug/l

RT: 9.153 min Scan# 1322

Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Tgt Ion: 97 Resp: 1222

Ion Ratio Lower Upper

97 100

83 84.6 68.8 103.2

85 54.6 43.7 65.5

99 61.7 49.5 74.3

Instrument :

MSVOA_X

ClientSampleId :

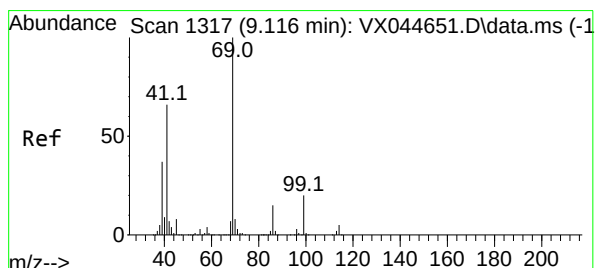
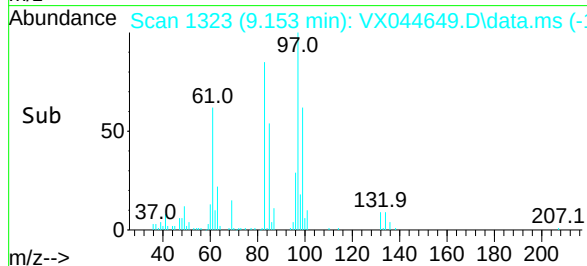
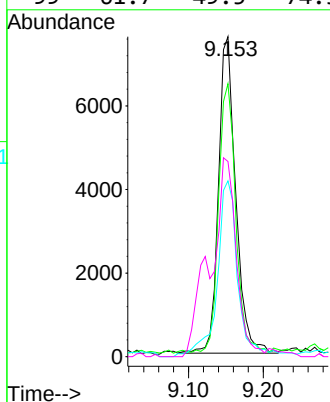
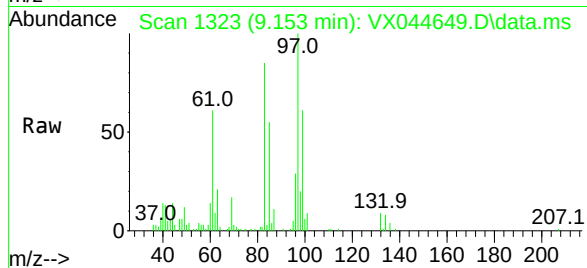
VSTDICC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#56

Ethyl methacrylate

Concen: 4.935 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

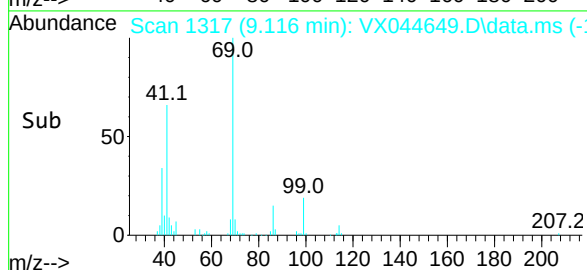
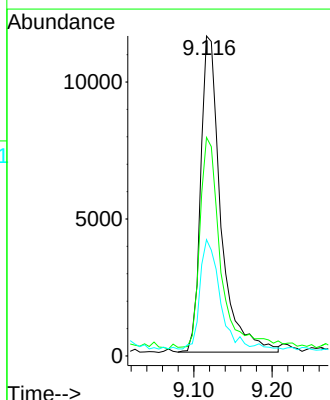
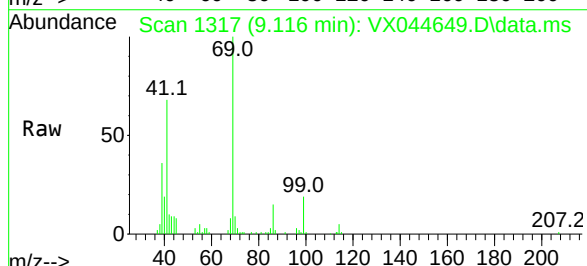
Tgt Ion: 69 Resp: 20596

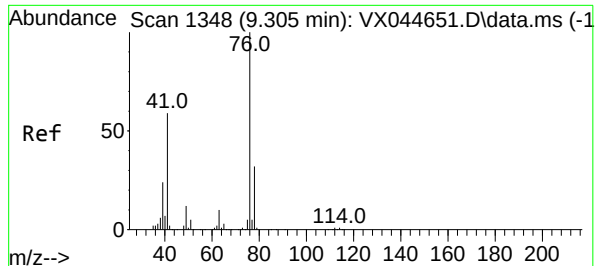
Ion Ratio Lower Upper

69 100

41 68.9 53.2 79.8

39 33.8 30.2 45.2





#57

1,3-Dichloropropane

Concen: 5.142 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 2125

Ion Ratio Lower Upper

76 100

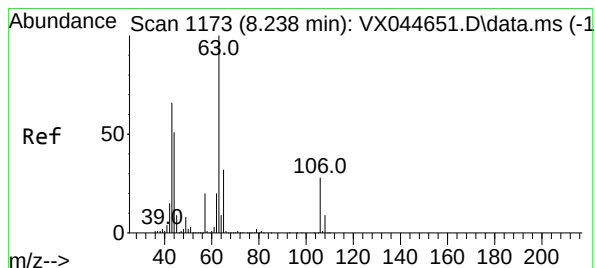
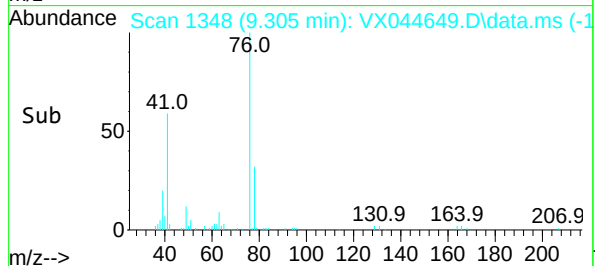
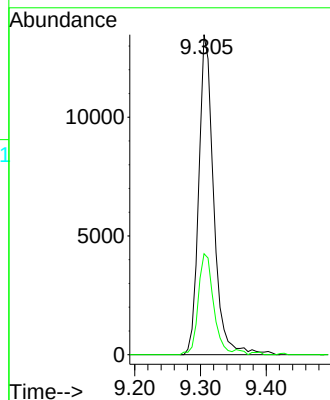
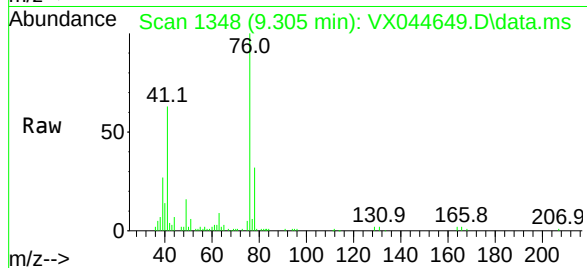
78 32.2 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 24.557 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044649.D

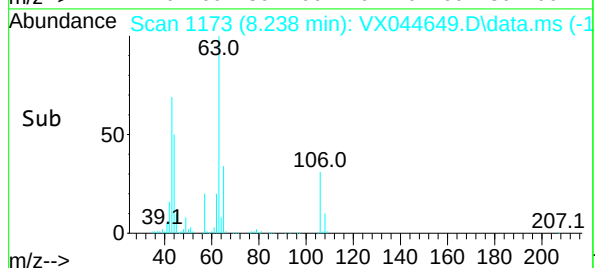
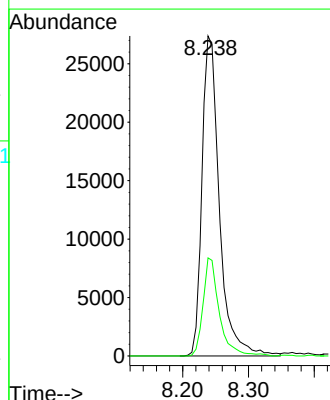
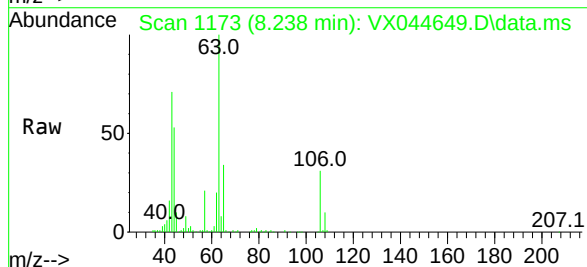
Acq: 15 Jan 2025 11:17

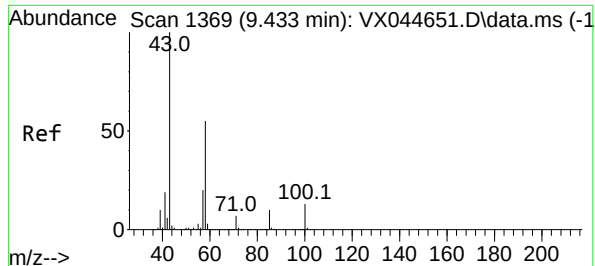
Tgt Ion: 63 Resp: 50319

Ion Ratio Lower Upper

63 100

106 28.7 23.0 34.6





#59

2-Hexanone

Concen: 25.395 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 6398

Ion Ratio Lower Upper

43 100

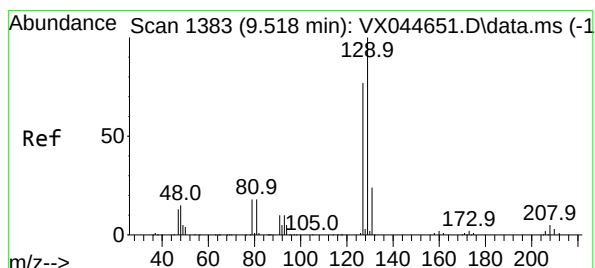
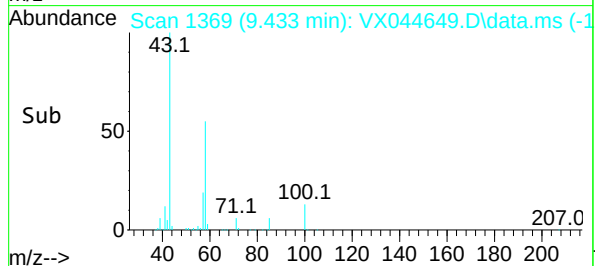
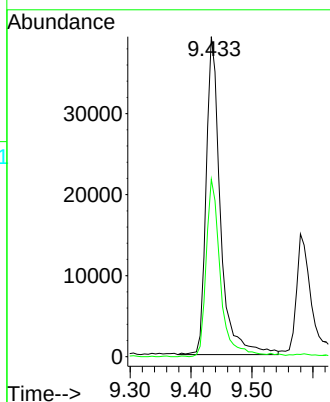
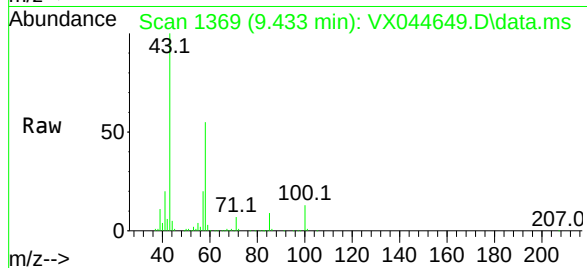
58 55.5 27.8 83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#60

Dibromochloromethane

Concen: 5.108 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044649.D

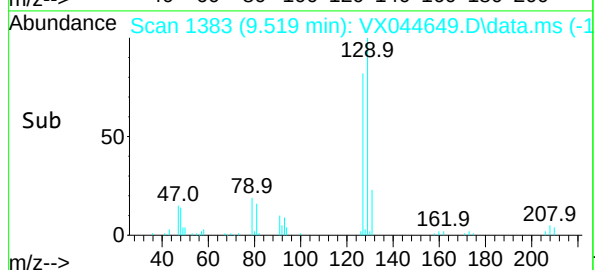
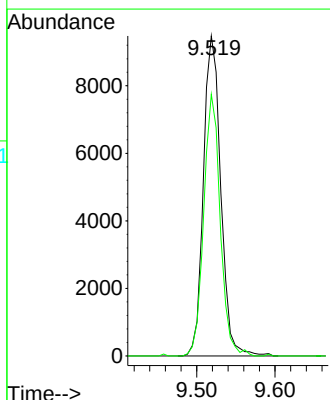
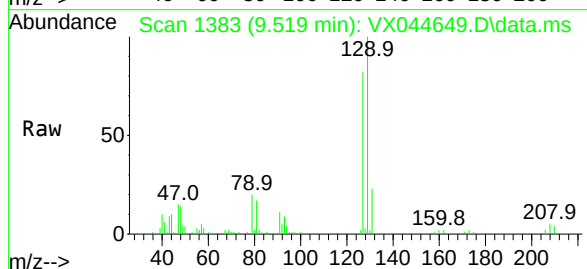
Acq: 15 Jan 2025 11:17

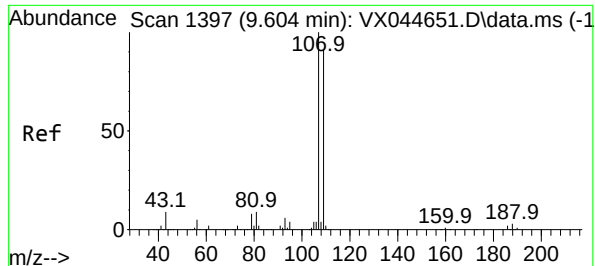
Tgt Ion:129 Resp: 14553

Ion Ratio Lower Upper

129 100

127 78.0 38.5 115.5





#61

1,2-Dibromoethane

Concen: 5.077 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:107 Resp: 12910

Ion Ratio Lower Upper

107 100

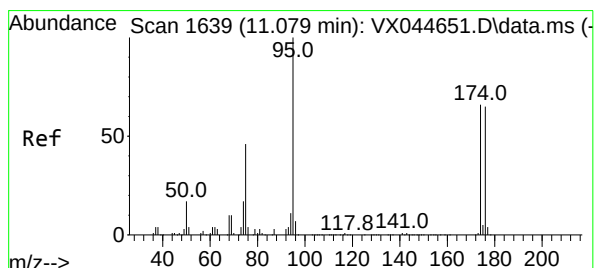
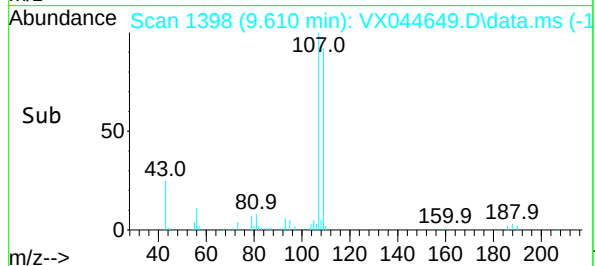
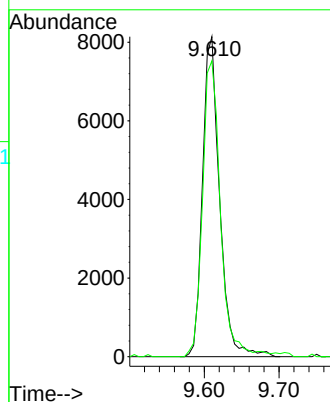
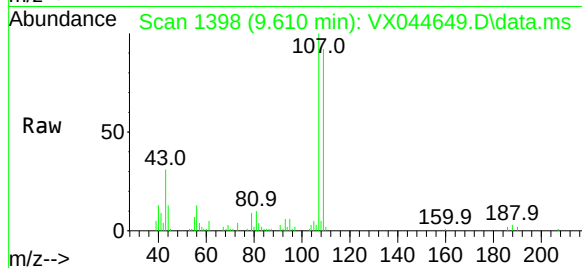
109 97.2 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#62

4-Bromofluorobenzene

Concen: 5.386 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

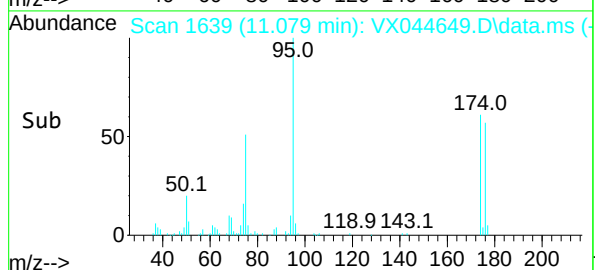
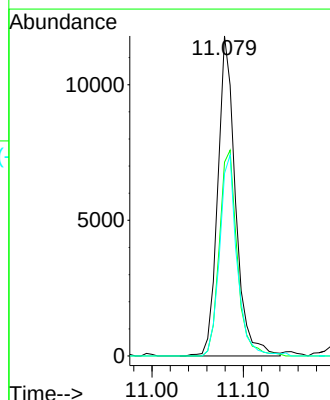
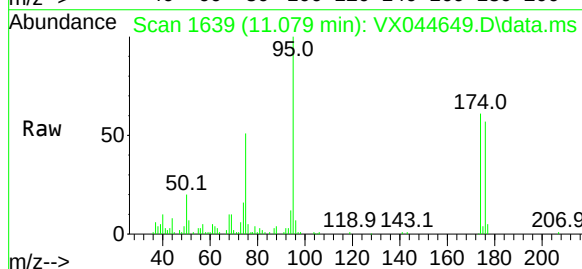
Tgt Ion: 95 Resp: 15909

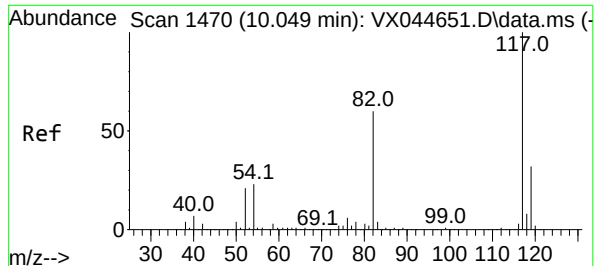
Ion Ratio Lower Upper

95 100

174 64.6 0.0 133.0

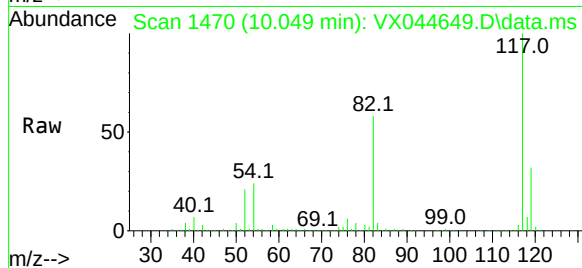
176 61.6 0.0 129.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

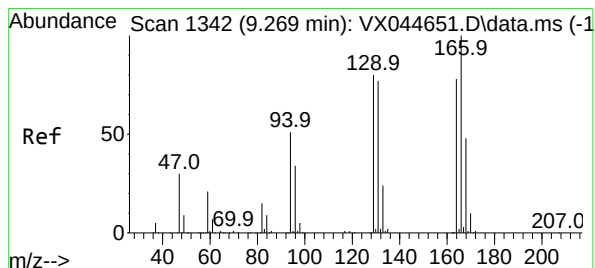
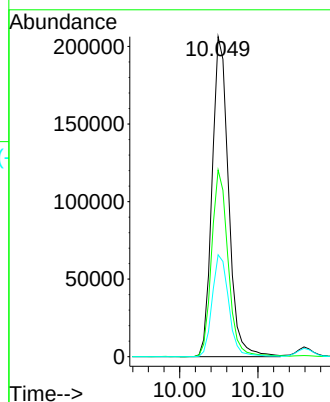
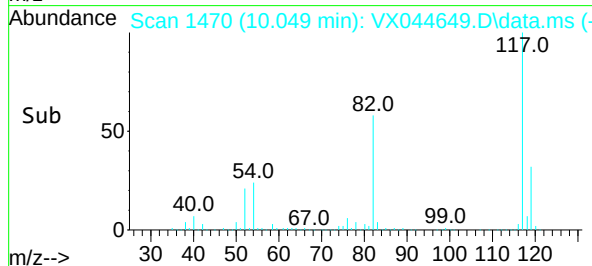
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:117 Resp: 30016
Ion Ratio Lower Upper
117 100
82 58.3 47.6 71.4
119 31.9 25.4 38.2

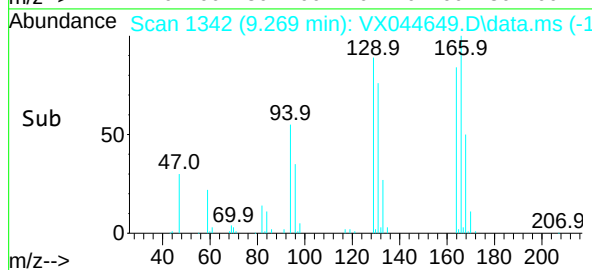
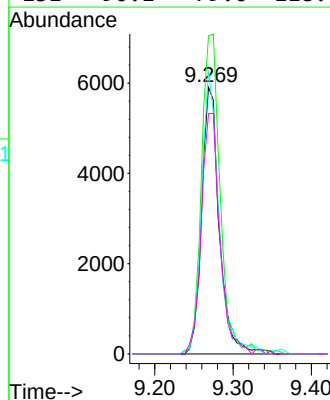
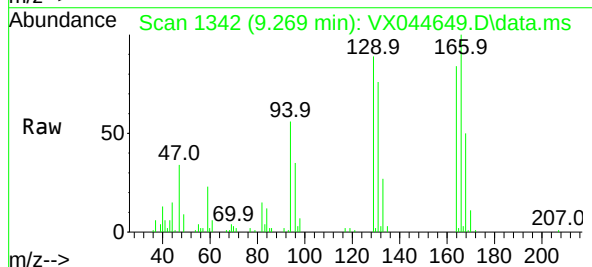
Manual Integrations
APPROVED

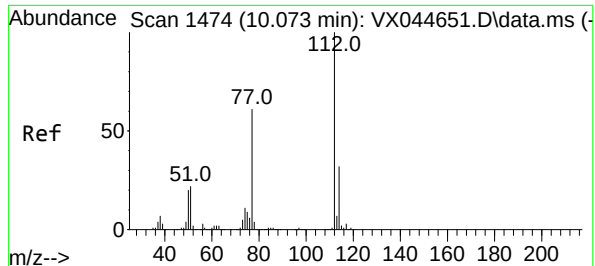
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#64
Tetrachloroethene
Concen: 4.920 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

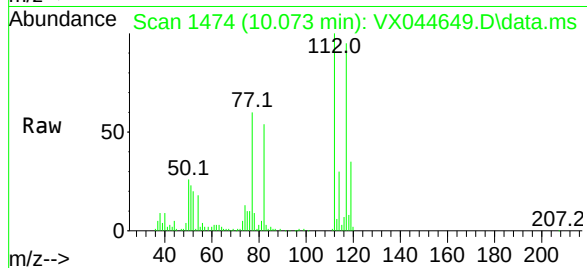
Tgt Ion:164 Resp: 9274
Ion Ratio Lower Upper
164 100
166 119.3 102.0 153.0
129 106.0 81.1 121.7
131 90.1 79.0 118.6





#65
Chlorobenzene
Concen: 5.109 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

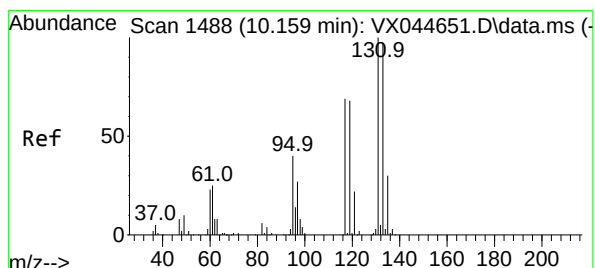
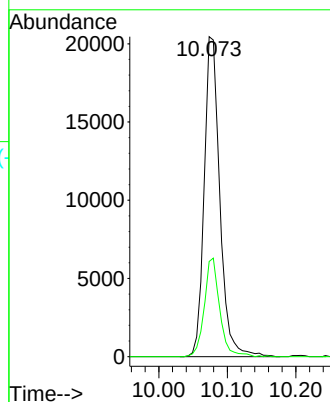
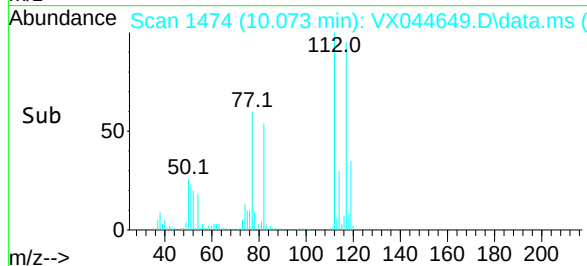
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:112 Resp: 3257
Ion Ratio Lower Upper
112 100
114 29.8 25.3 37.9

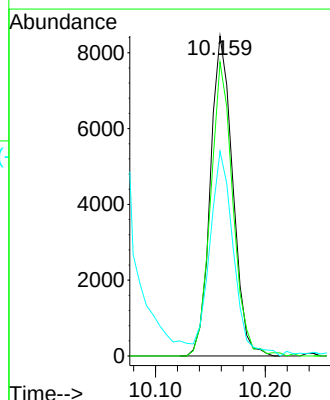
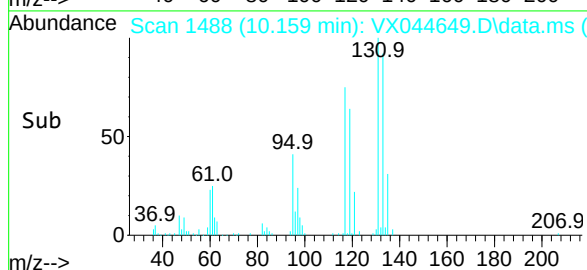
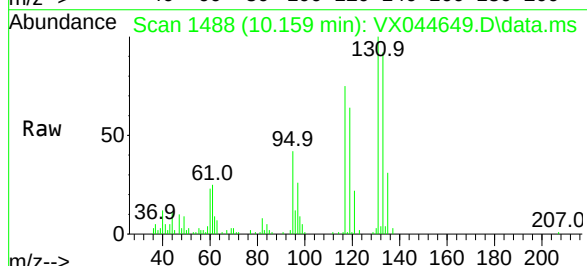
Manual Integrations
APPROVED

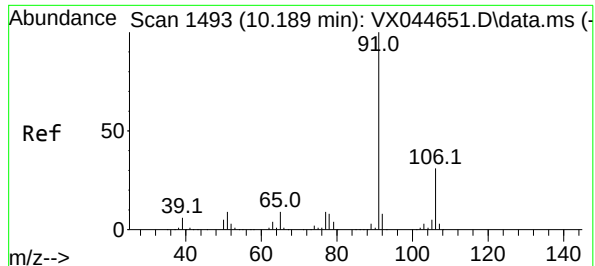
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 5.160 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:131 Resp: 11955
Ion Ratio Lower Upper
131 100
133 91.8 47.8 143.3
119 67.1 33.4 100.2





#67

Ethyl Benzene

Concen: 4.963 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 91 Resp: 55208

Ion Ratio Lower Upper

91 100

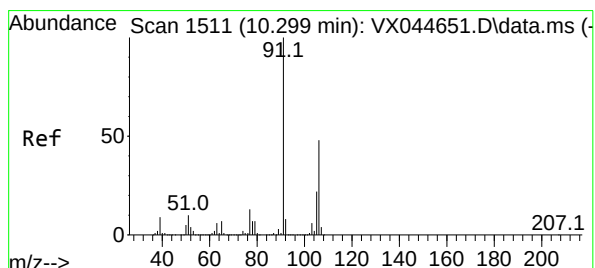
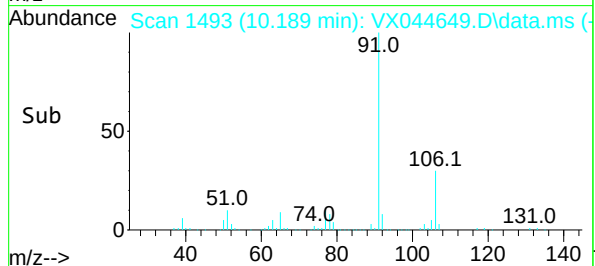
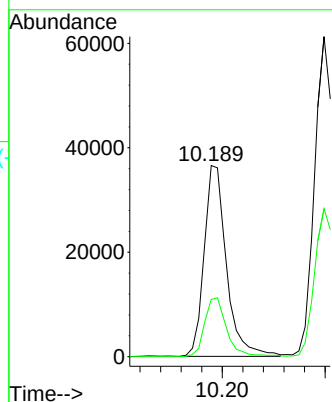
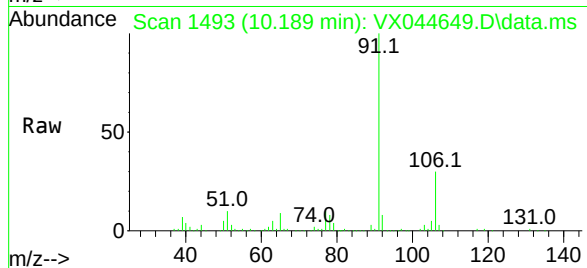
106 30.0 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#68

m/p-Xylenes

Concen: 10.129 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044649.D

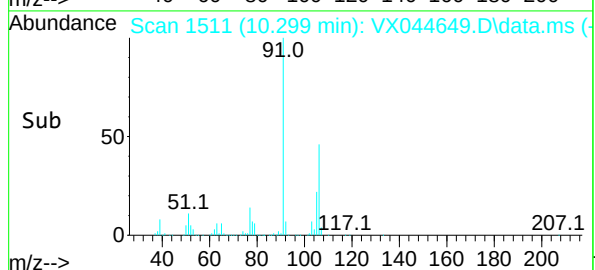
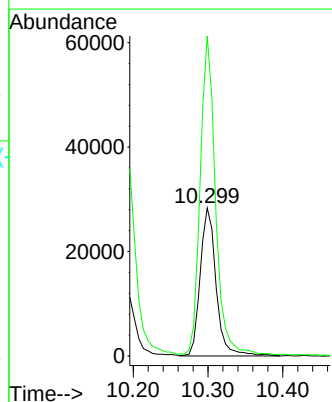
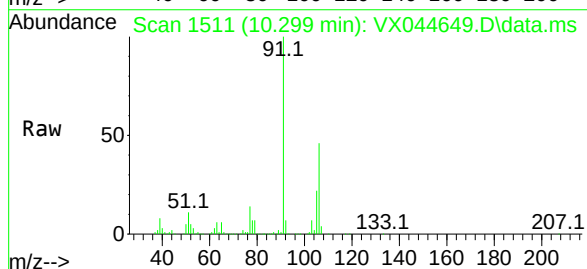
Acq: 15 Jan 2025 11:17

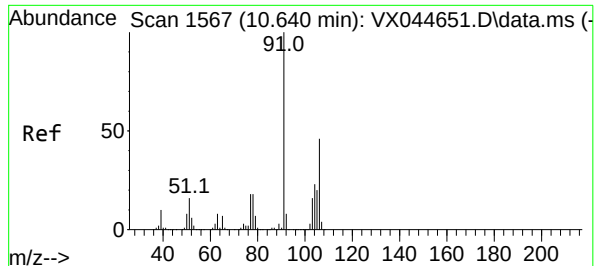
Tgt Ion:106 Resp: 41816

Ion Ratio Lower Upper

106 100

91 206.3 166.4 249.6





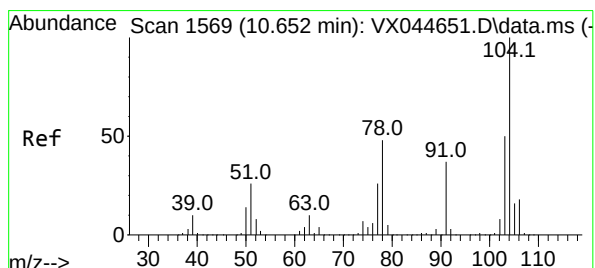
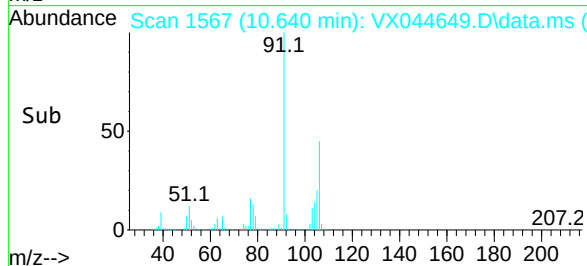
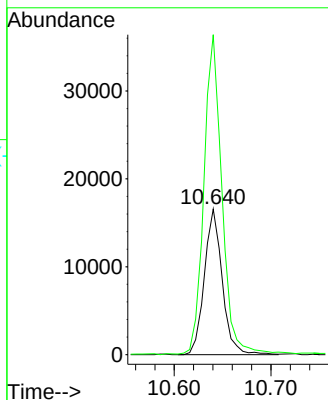
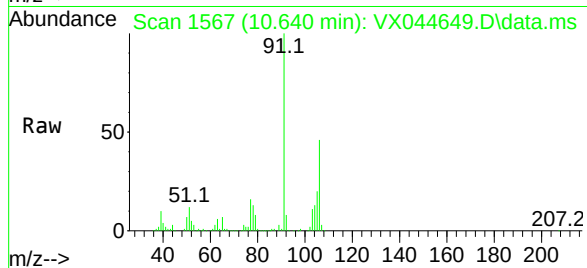
#69
o-Xylene
Concen: 5.124 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:106 Resp: 21392
Ion Ratio Lower Upper
106 100
91 223.1 108.7 326.3

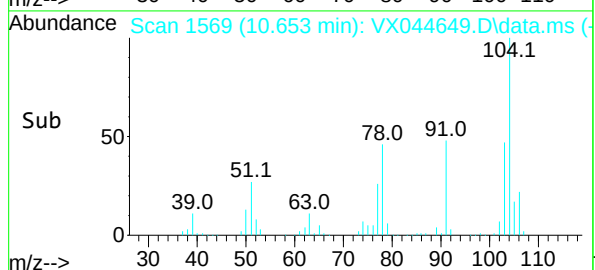
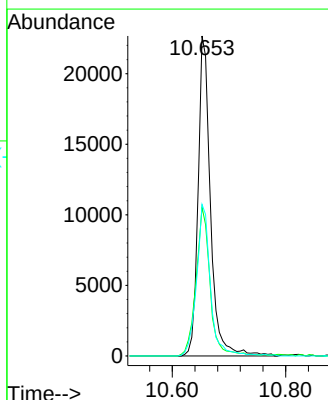
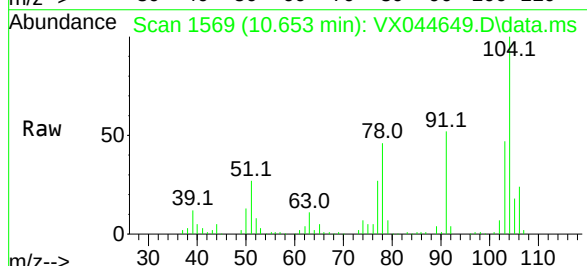
Manual Integrations
APPROVED

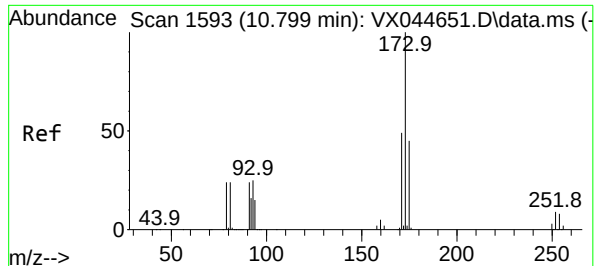
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#70
Styrene
Concen: 5.105 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

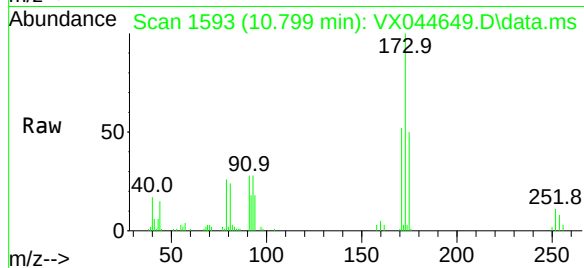
Tgt Ion:104 Resp: 34407
Ion Ratio Lower Upper
104 100
78 52.8 43.0 64.6
103 52.7 43.4 65.2





#71
Bromoform
Concen: 5.012 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

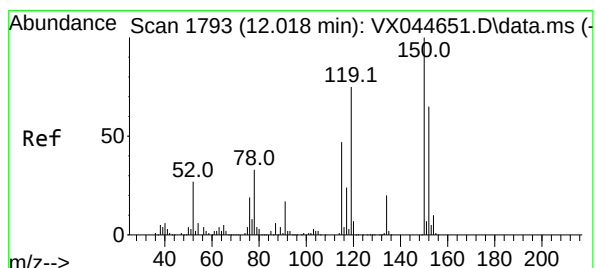
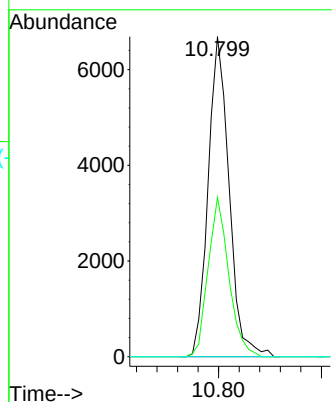
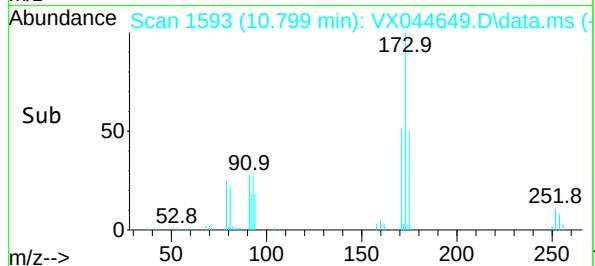
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:173 Resp: 945
Ion Ratio Lower Upper
173 100
175 49.3 23.6 70.8
254 0.0 0.1 0.1

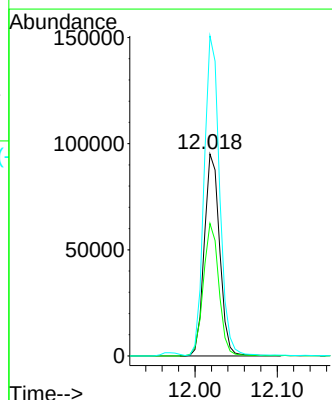
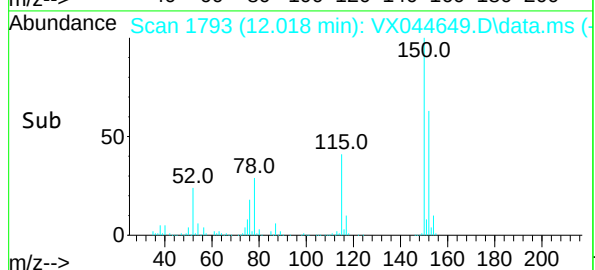
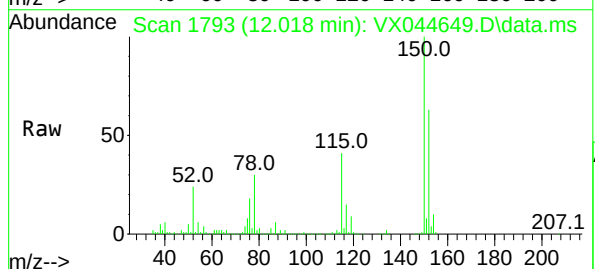
Manual Integrations
APPROVED

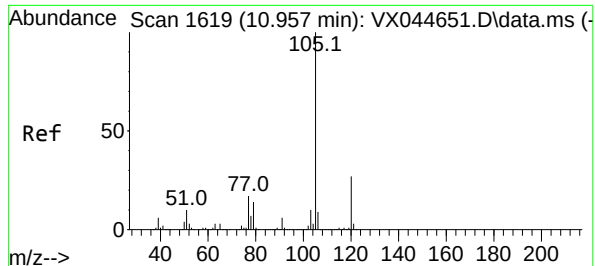
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:152 Resp: 123491
Ion Ratio Lower Upper
152 100
115 66.3 43.8 131.4
150 158.9 0.0 347.8





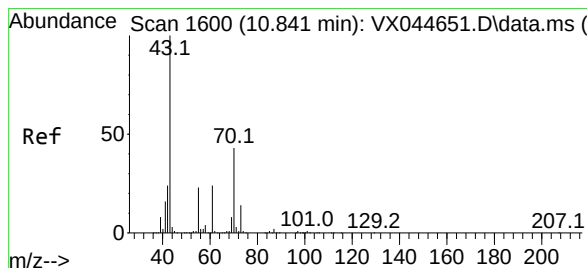
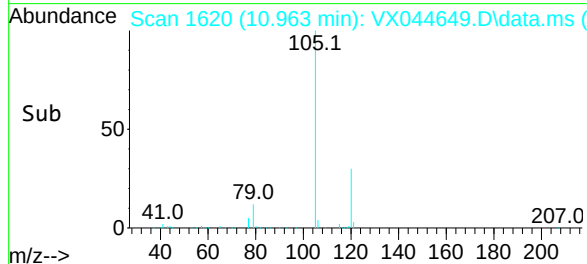
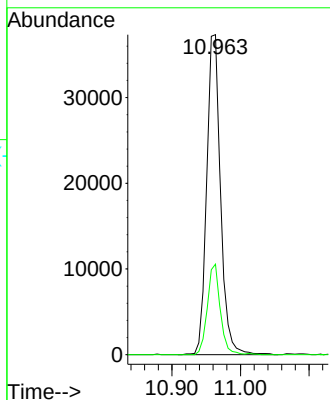
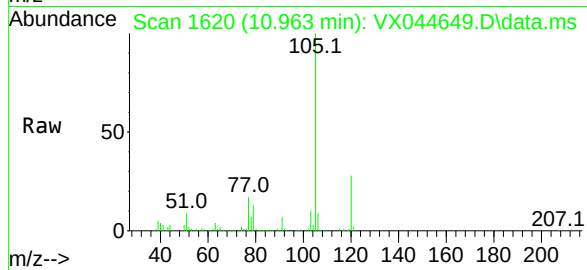
#73
Isopropylbenzene
Concen: 5.214 ug/l
RT: 10.963 min Scan# 1619
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 105 Resp: 52599
Ion Ratio Lower Upper
105 100
120 26.3 13.2 39.6

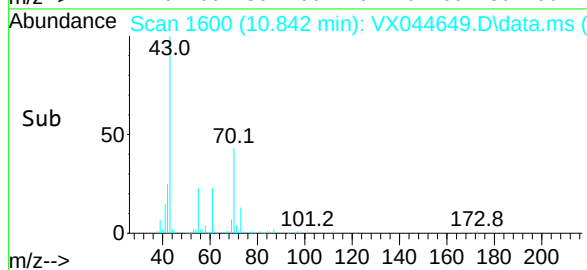
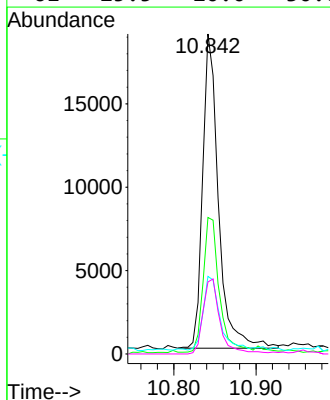
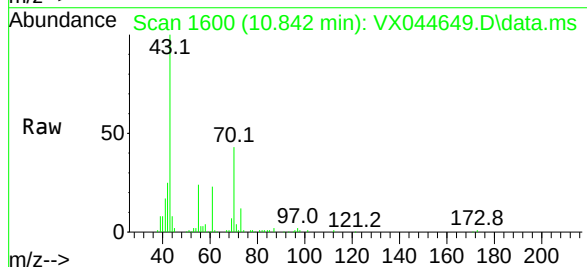
Manual Integrations
APPROVED

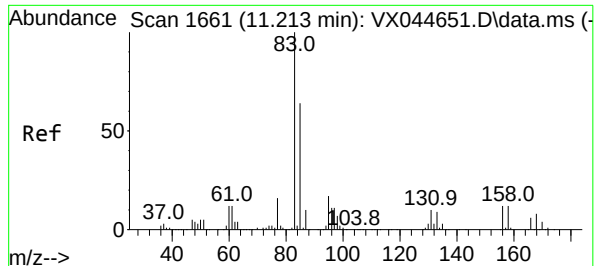
Reviewed By : John Carlone 01/15/2025
Supervised By : Semsettin Yesilyurt 01/16/2025



#74
N-ethyl acetate
Concen: 5.084 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 25282
Ion Ratio Lower Upper
43 100
70 43.3 35.2 52.8
55 25.0 19.0 28.4
61 25.5 20.0 30.0





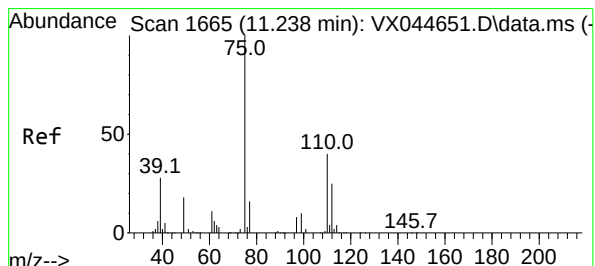
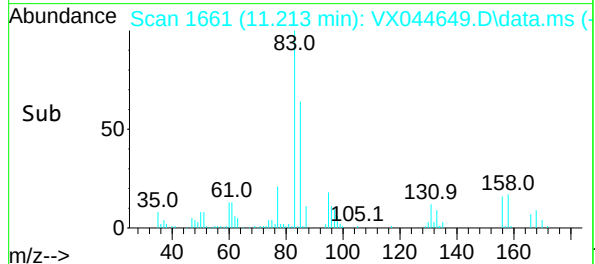
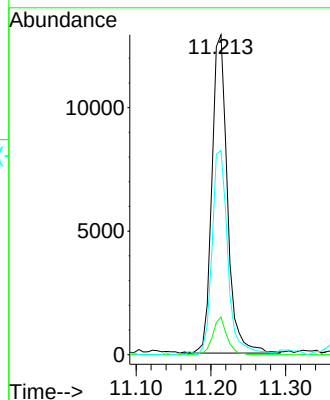
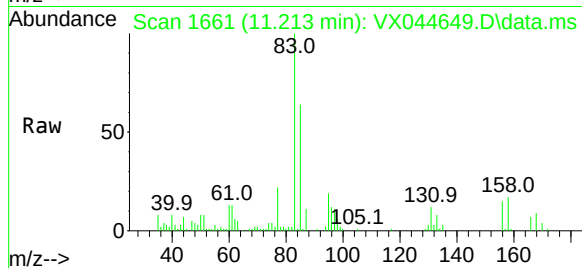
#75
1,1,2,2-Tetrachloroethane
Concen: 5.351 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 1864
Ion Ratio Lower Upper
83 100
131 10.8 5.0 14.9
85 65.7 32.0 96.2

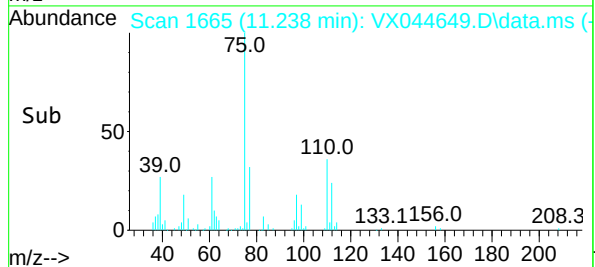
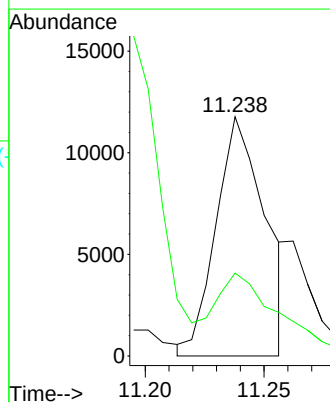
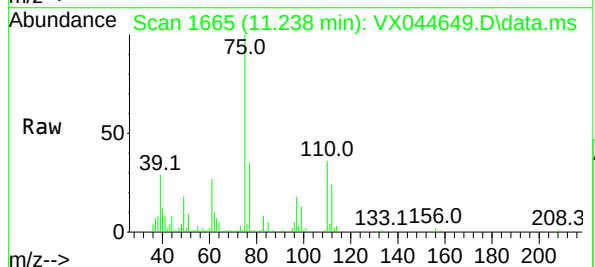
Manual Integrations
APPROVED

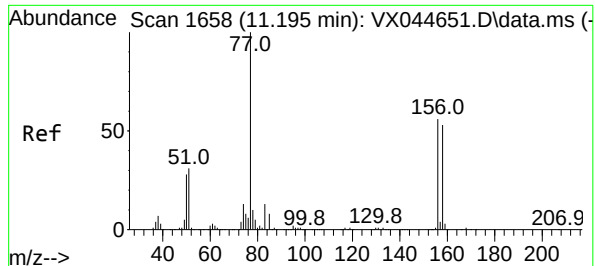
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#76
1,2,3-Trichloropropane
Concen: 5.796 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

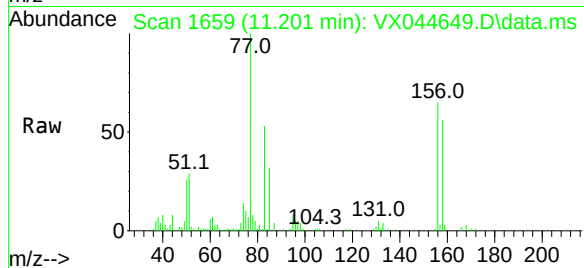
Tgt Ion: 75 Resp: 16903
Ion Ratio Lower Upper
75 100
77 44.4 23.4 70.2





#77
Bromobenzene
Concen: 5.156 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

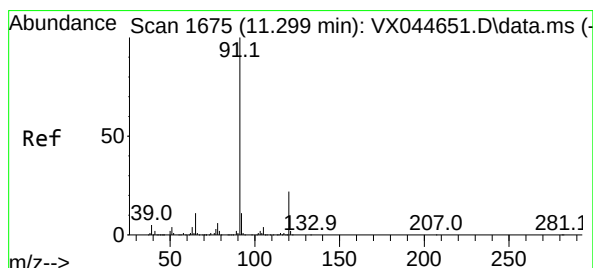
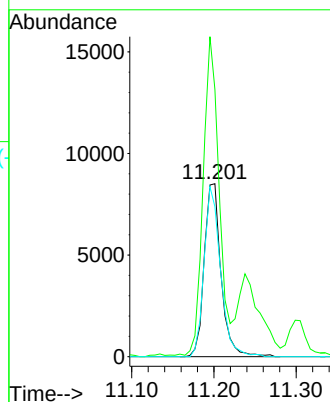
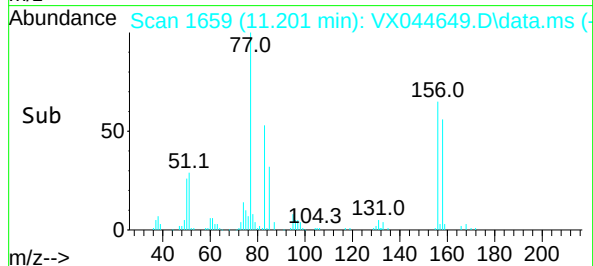
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 156 Resp: 12158
Ion Ratio Lower Upper
156 100
77 172.0 90.3 271.0
158 96.4 48.4 145.3

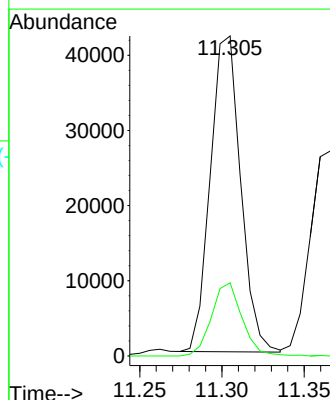
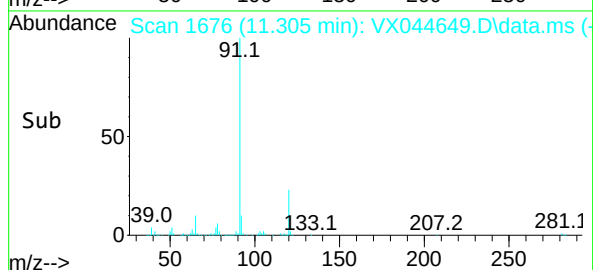
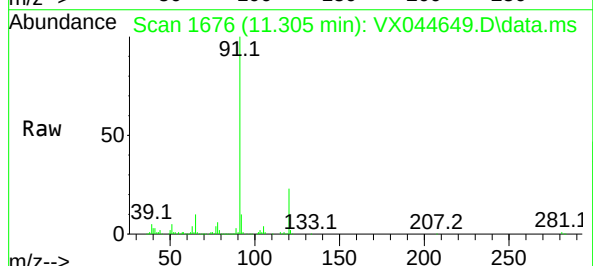
Manual Integrations
APPROVED

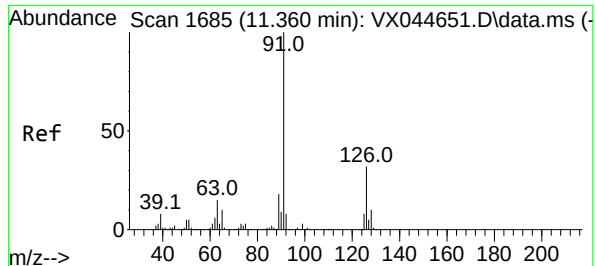
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#78
n-propylbenzene
Concen: 4.846 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 91 Resp: 53913
Ion Ratio Lower Upper
91 100
120 23.3 11.4 34.1





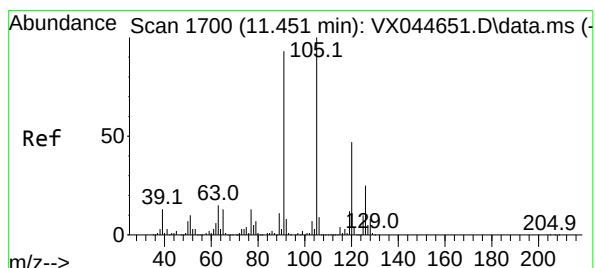
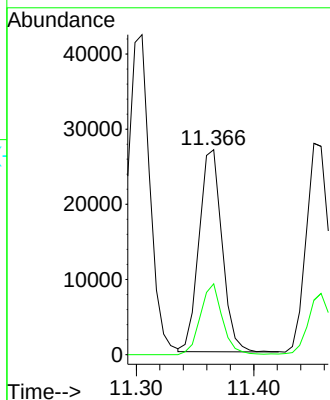
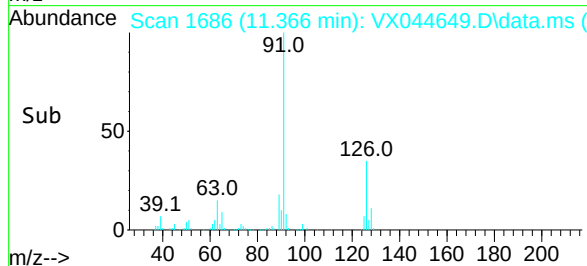
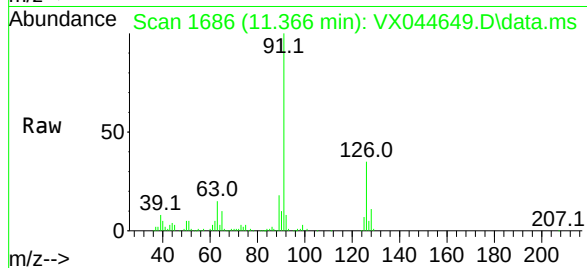
#79
2-Chlorotoluene
Concen: 5.093 ug/l
RT: 11.366 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 91 Resp: 36602
Ion Ratio Lower Upper
91 100
126 33.5 16.2 48.5

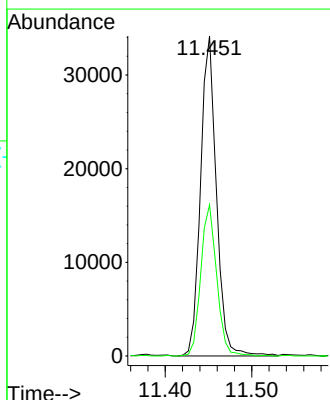
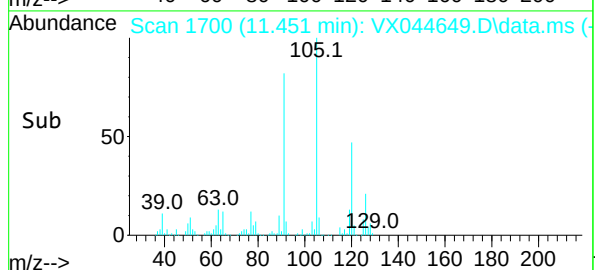
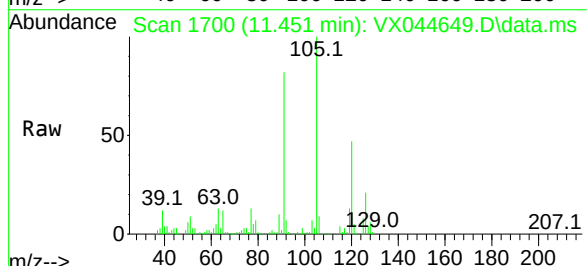
Manual Integrations
APPROVED

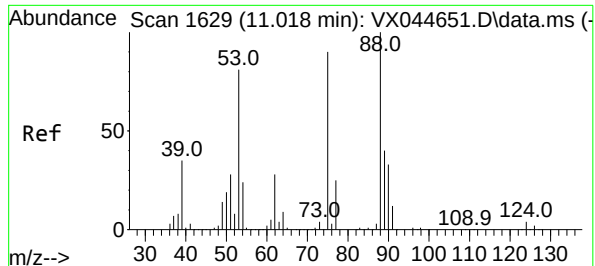
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#80
1,3,5-Trimethylbenzene
Concen: 5.295 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:105 Resp: 43488
Ion Ratio Lower Upper
105 100
120 47.3 23.7 71.1





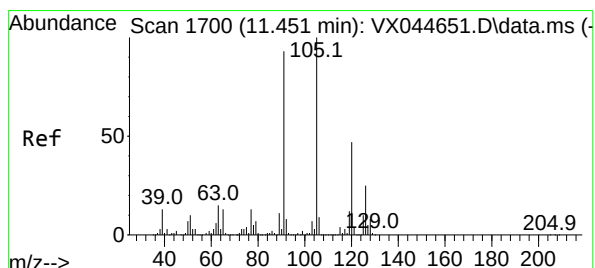
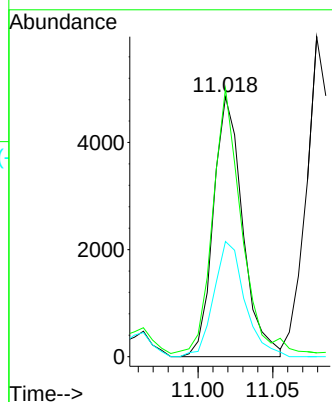
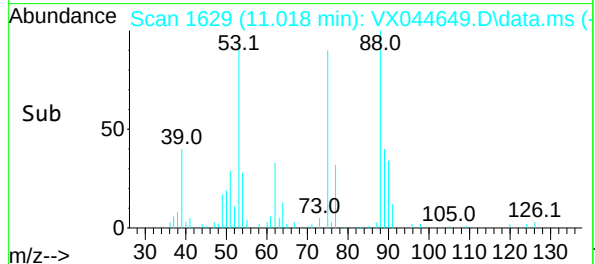
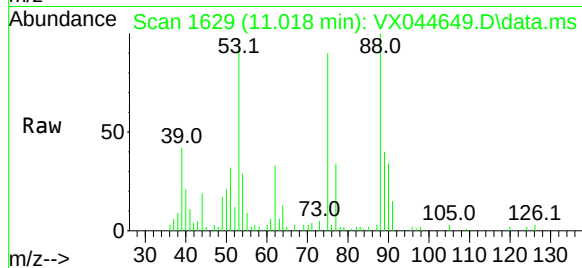
#81
trans-1,4-Dichloro-2-butene
Concen: 5.042 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:	75	Resp:	660
Ion	Ratio	Lower	Upper
75	100		
53	100.4	74.3	111.5
89	46.8	37.4	56.0

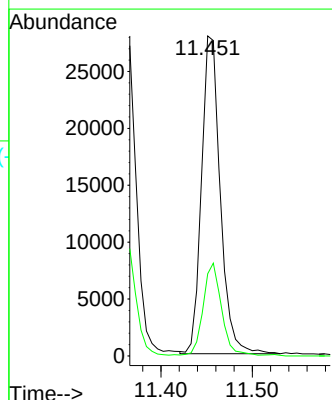
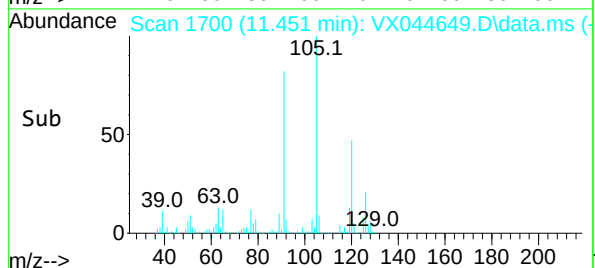
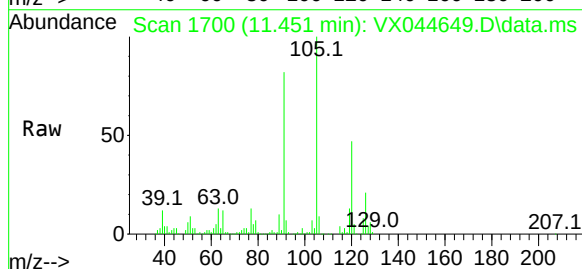
Manual Integrations
APPROVED

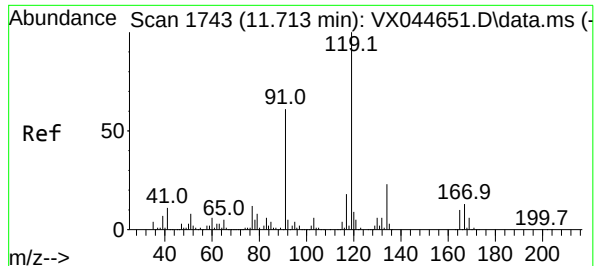
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#82
4-Chlorotoluene
Concen: 5.051 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:	91	Resp:	39763
Ion	Ratio	Lower	Upper
91	100		
126	28.1	13.9	41.7





#83

tert-Butylbenzene

Concen: 5.311 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:119 Resp: 45600

Ion Ratio Lower Upper

119 100

91 58.6 30.0 90.0

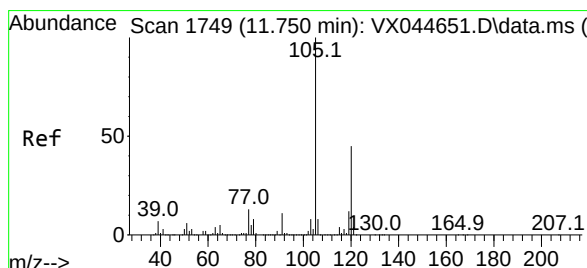
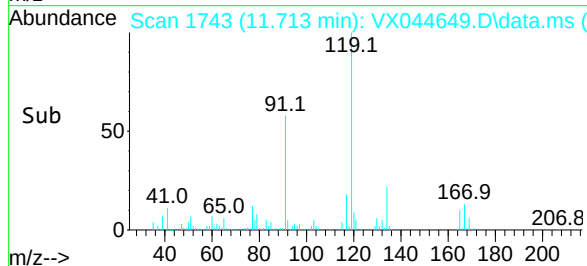
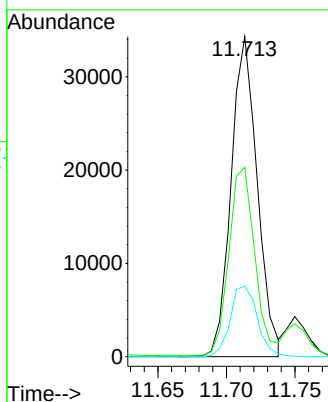
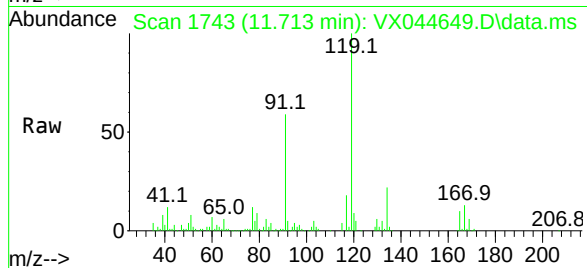
134 22.8 11.2 33.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#84

1,2,4-Trimethylbenzene

Concen: 5.001 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044649.D

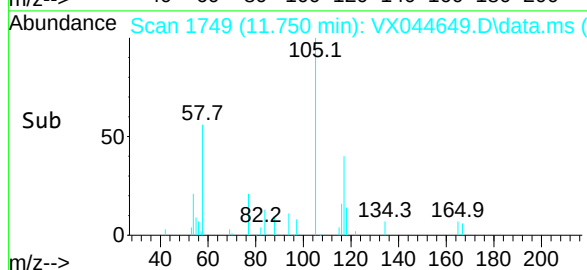
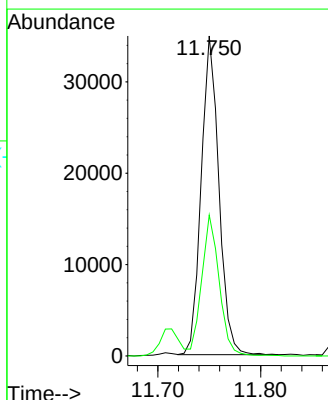
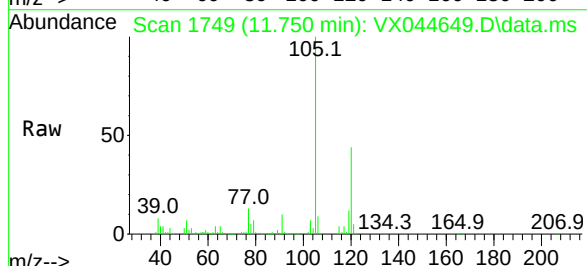
Acq: 15 Jan 2025 11:17

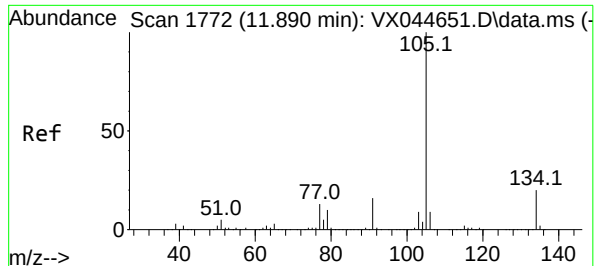
Tgt Ion:105 Resp: 41737

Ion Ratio Lower Upper

105 100

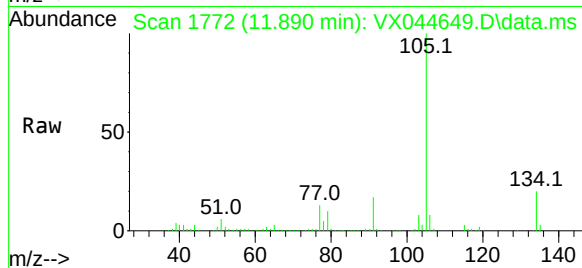
120 43.7 22.2 66.6





#85
sec-Butylbenzene
Concen: 4.987 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

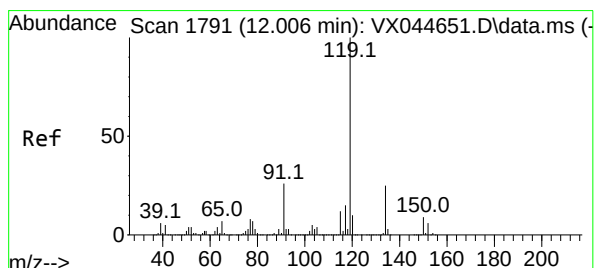
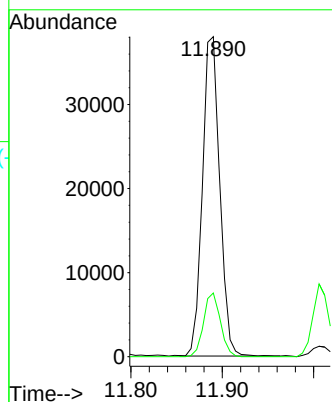
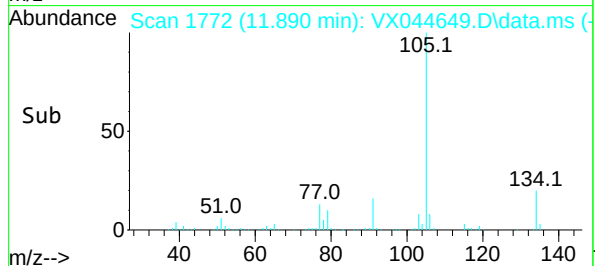
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:105 Resp: 4985
Ion Ratio Lower Upper
105 100
134 19.4 9.8 29.5

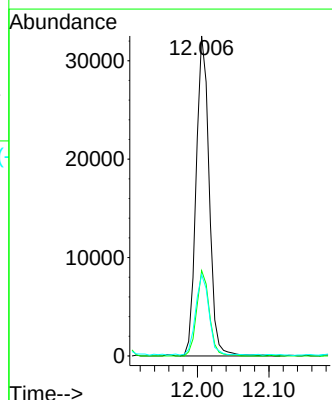
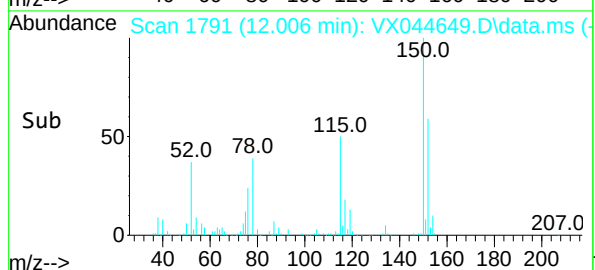
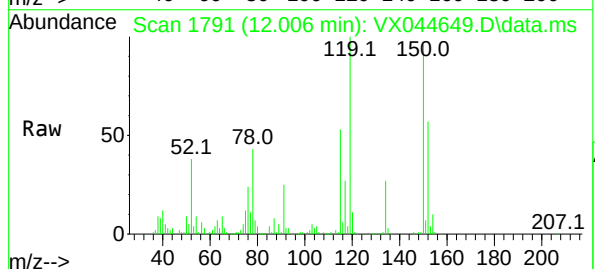
Manual Integrations
APPROVED

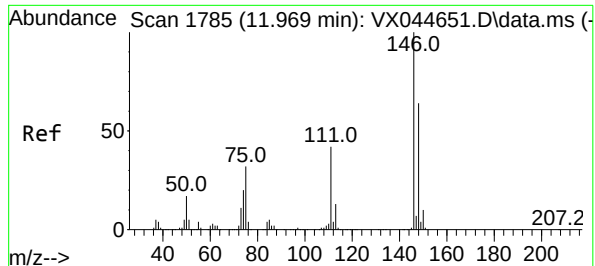
Reviewed By :John Carbone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#86
p-Isopropyltoluene
Concen: 5.016 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:119 Resp: 41214
Ion Ratio Lower Upper
119 100
134 25.9 12.8 38.4
91 25.8 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 4.956 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion:146 Resp: 2026

Ion Ratio Lower Upper

146 100

111 43.3 21.9 65.7

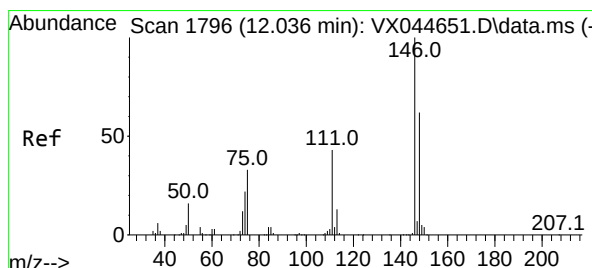
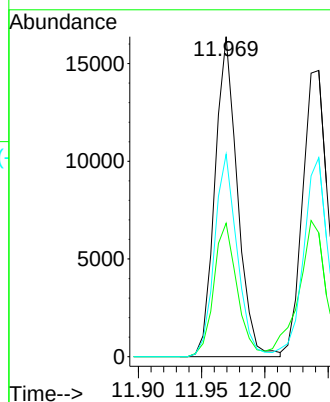
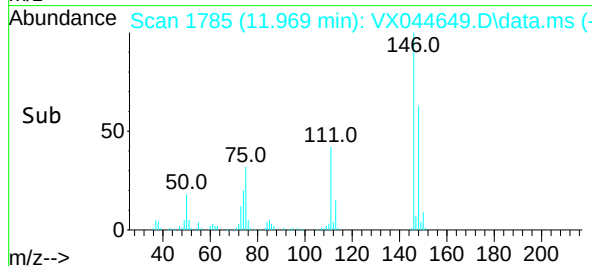
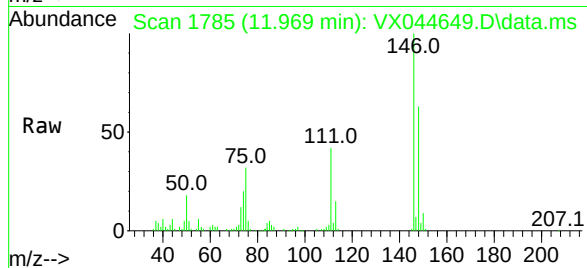
148 63.7 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#88

1,4-Dichlorobenzene

Concen: 5.062 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

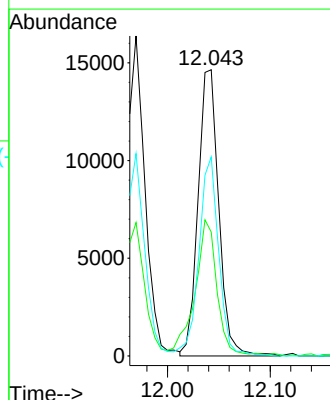
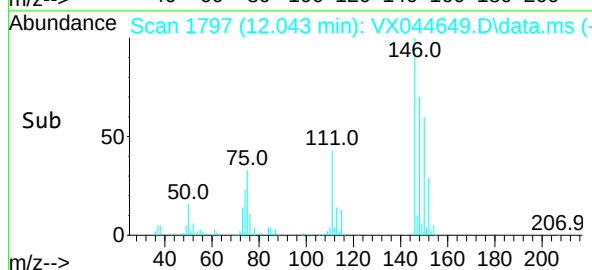
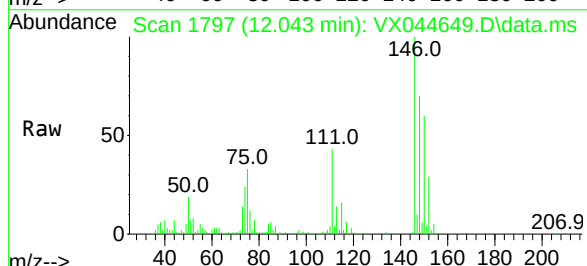
Tgt Ion:146 Resp: 20555

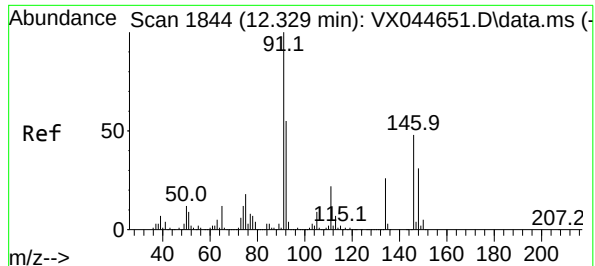
Ion Ratio Lower Upper

146 100

111 51.4 21.5 64.5

148 66.7 32.1 96.5





#89

n-Butylbenzene

Concen: 4.747 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

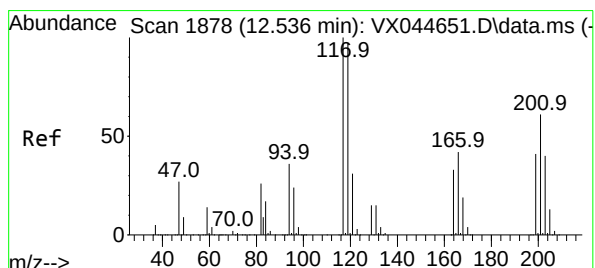
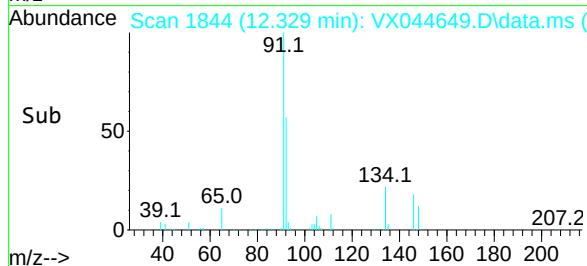
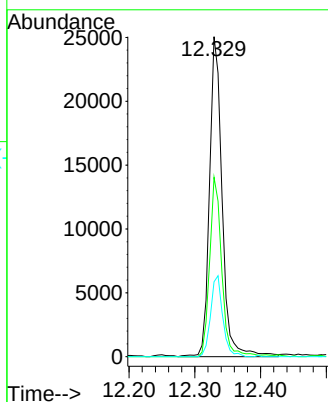
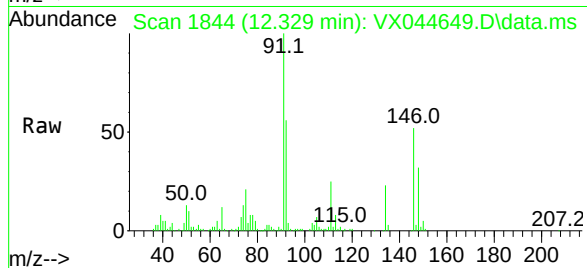
Tgt Ion:	91	Resp:	3350
Ion	Ratio	Lower	Upper
91	100		
92	53.5	27.4	82.0
134	24.2	12.8	38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#90

Hexachloroethane

Concen: 5.012 ug/l

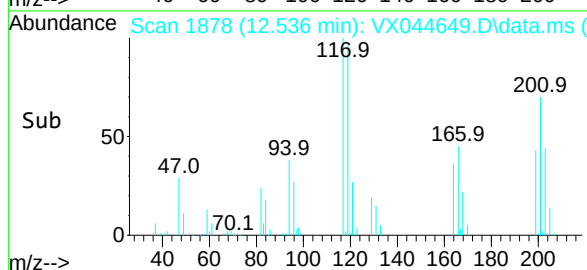
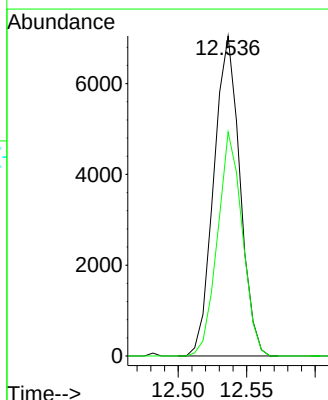
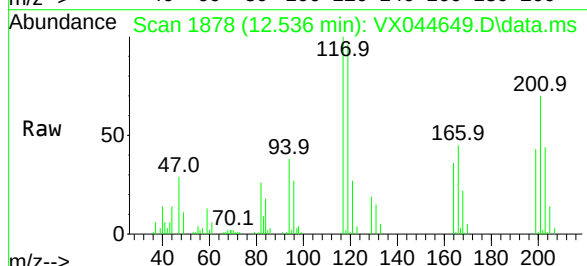
RT: 12.536 min Scan# 1878

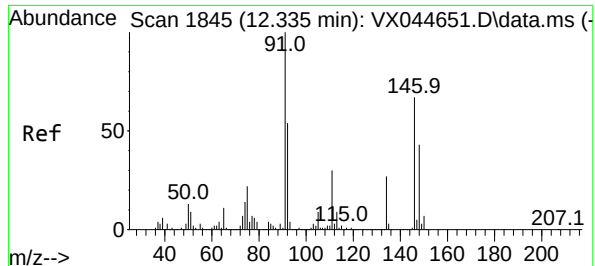
Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

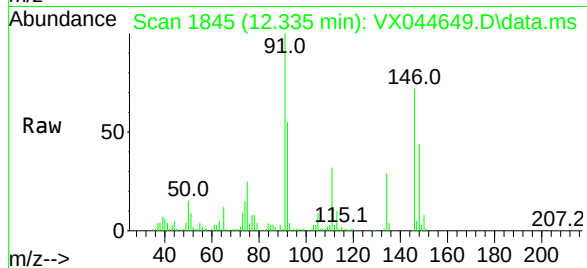
Tgt Ion:	117	Resp:	9325
Ion	Ratio	Lower	Upper
117	100		
201	66.5	32.3	96.8





#91
1,2-Dichlorobenzene
Concen: 5.165 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

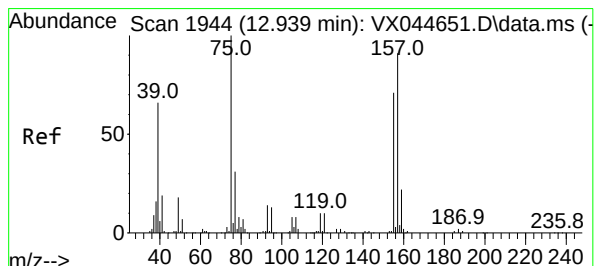
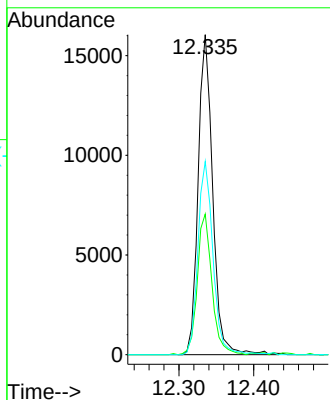
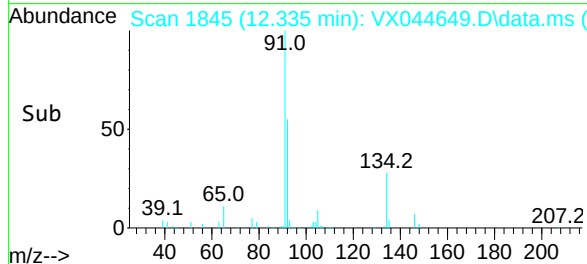
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:146 Resp: 21690
Ion Ratio Lower Upper
146 100
111 44.3 22.4 67.2
148 62.5 31.6 94.8

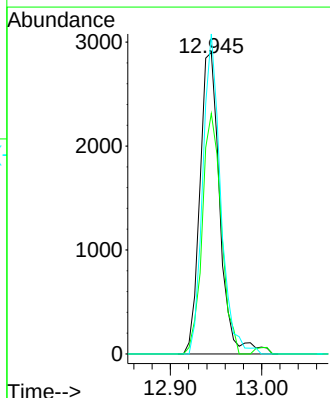
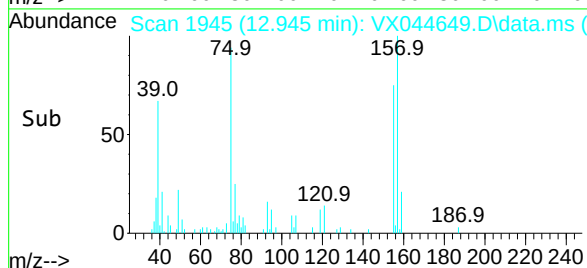
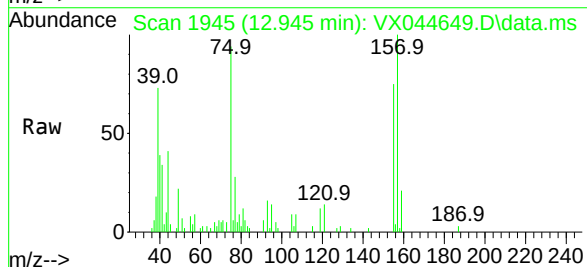
Manual Integrations
APPROVED

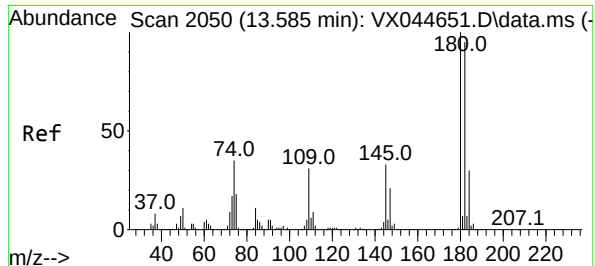
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.145 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 75 Resp: 4384
Ion Ratio Lower Upper
75 100
155 76.0 39.0 116.9
157 94.7 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 4.640 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

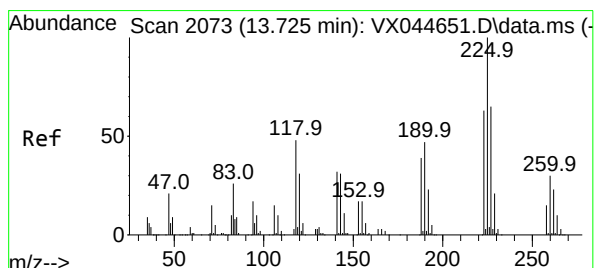
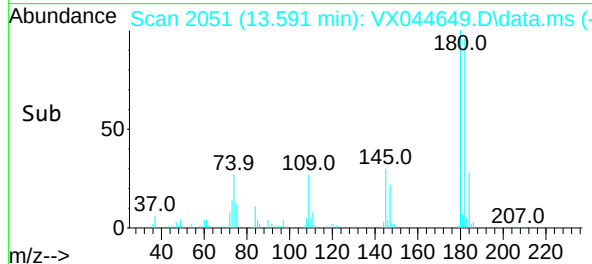
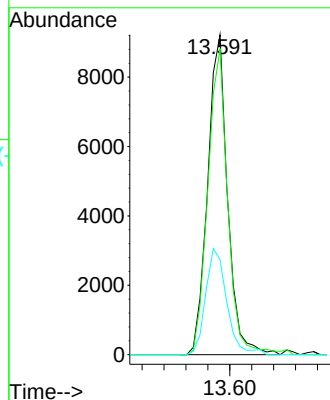
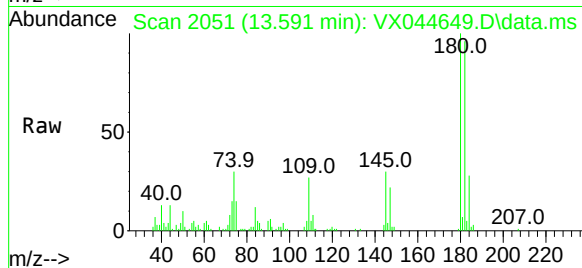
Tgt Ion:	180	Resp:	11649
Ion Ratio	Lower	Upper	
180	100		
182	95.7	47.4	142.2
145	35.1	16.7	50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#94

Hexachlorobutadiene

Concen: 4.804 ug/l

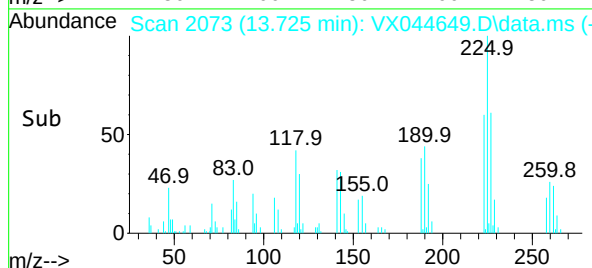
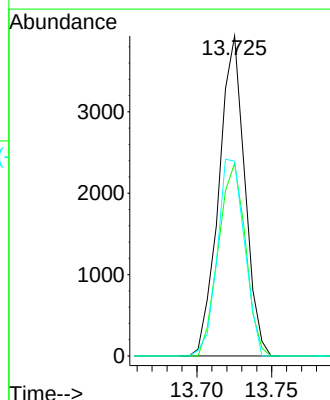
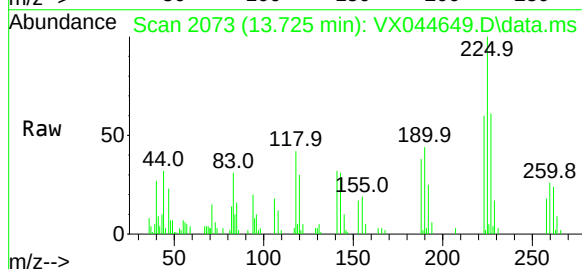
RT: 13.725 min Scan# 2073

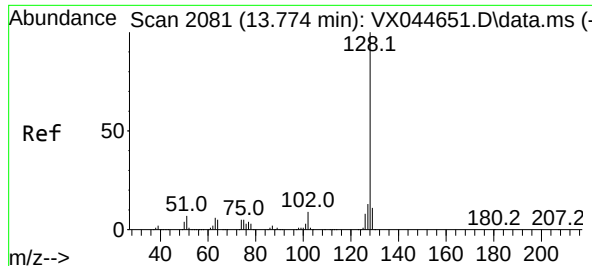
Delta R.T. 0.000 min

Lab File: VX044649.D

Acq: 15 Jan 2025 11:17

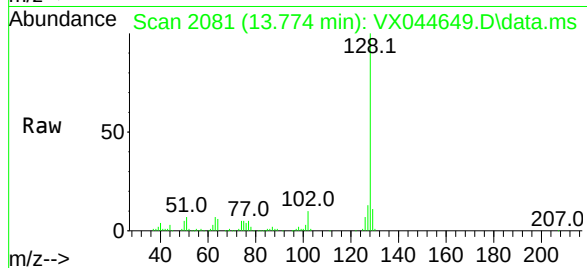
Tgt Ion:	225	Resp:	4738
Ion Ratio	Lower	Upper	
225	100		
223	62.7	31.9	95.7
227	64.2	31.8	95.4





#95
Naphthalene
Concen: 4.794 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

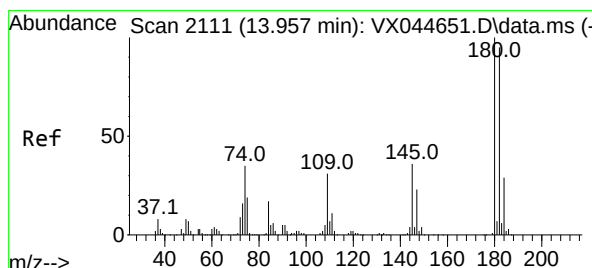
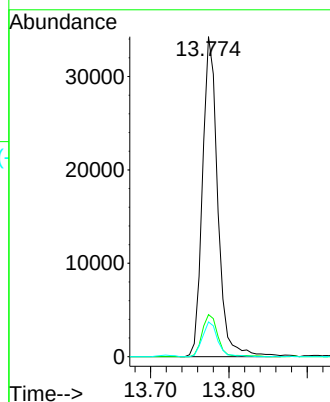
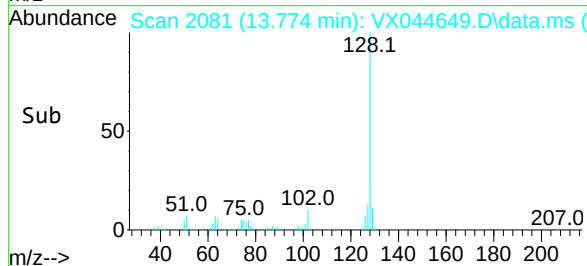
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:128 Resp: 46418
Ion Ratio Lower Upper
128 100
127 13.5 10.3 15.5
129 10.9 8.7 13.1

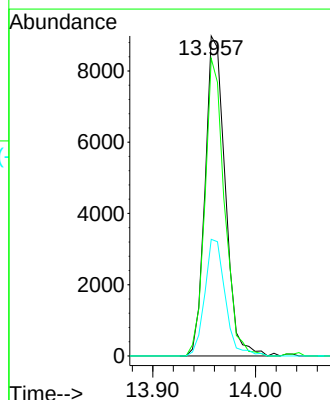
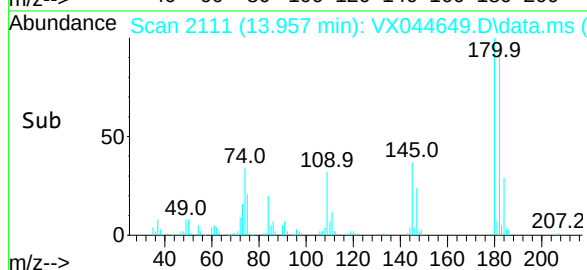
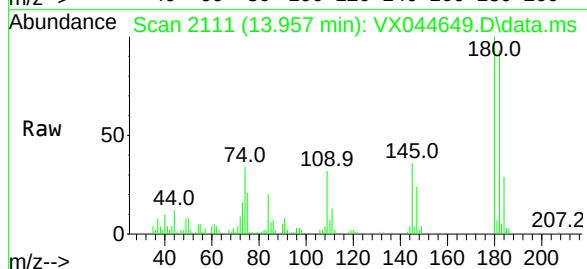
Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.710 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:180 Resp: 12258
Ion Ratio Lower Upper
180 100
182 90.2 47.2 141.6
145 36.9 17.5 52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044650.D
 Acq On : 15 Jan 2025 11:40
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:59:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	189658	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	351528	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	305422	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	130861	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	52421	18.311	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	36.620%#		
35) Dibromofluoromethane	5.379	113	40585	18.173	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	36.340%#		
50) Toluene-d8	8.647	98	147843	18.987	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	37.980%#		
62) 4-Bromofluorobenzene	11.079	95	55407	19.087	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.180%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	48623	19.052	ug/l	97
3) Chloromethane	1.295	50	54827	19.866	ug/l	97
4) Vinyl Chloride	1.374	62	51689	18.955	ug/l	98
5) Bromomethane	1.593	94	12588	19.333	ug/l	98
6) Chloroethane	1.660	64	8576	17.150	ug/l	98
7) Trichlorofluoromethane	1.868	101	57313	19.017	ug/l	100
8) Diethyl Ether	2.136	74	23029	18.934	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	42608	18.807	ug/l	98
10) Methyl Iodide	2.441	142	63102	20.401	ug/l	99
11) Tert butyl alcohol	2.977	59	62614m	96.990	ug/l	
12) 1,1-Dichloroethene	2.307	96	43408	19.547	ug/l	98
13) Acrolein	2.233	56	24912	82.949	ug/l	93
14) Allyl chloride	2.654	41	81766	18.911	ug/l	100
15) Acrylonitrile	3.063	53	123315	98.515	ug/l	98
16) Acetone	2.386	43	103836	91.678	ug/l	98
17) Carbon Disulfide	2.502	76	119145	19.662	ug/l	100
18) Methyl Acetate	2.703	43	62684	17.939	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	158601	19.718	ug/l	98
20) Methylene Chloride	2.782	84	51758	19.623	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	44786	19.317	ug/l	95
22) Diisopropyl ether	3.758	45	151033	20.095	ug/l	94
23) Vinyl Acetate	3.715	43	666641	101.337	ug/l	100
24) 1,1-Dichloroethane	3.605	63	88060	19.758	ug/l	100
25) 2-Butanone	4.556	43	168309	99.946	ug/l	99
26) 2,2-Dichloropropane	4.465	77	82977	19.209	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	56594	19.406	ug/l	99
28) Bromochloromethane	4.891	49	39526	18.978	ug/l	98
29) Tetrahydrofuran	5.001	42	106241	97.807	ug/l	100
30) Chloroform	5.087	83	89891	19.985	ug/l	99
31) Cyclohexane	5.458	56	72527	20.120	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	78644	19.019	ug/l	100
36) 1,1-Dichloropropene	5.684	75	59303	19.076	ug/l	99
37) Ethyl Acetate	4.715	43	66324	20.034	ug/l	98
38) Carbon Tetrachloride	5.666	117	65838	18.829	ug/l	95
39) Methylcyclohexane	7.373	83	78248	18.961	ug/l	97
40) Benzene	6.032	78	191801	19.911	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044650.D
 Acq On : 15 Jan 2025 11:40
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations
 APPROVED

Reviewed By :John Carlone 01/15/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:59:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	36180	19.016	ug/l	98
42) 1,2-Dichloroethane	6.080	62	69034	19.635	ug/l	99
43) Isopropyl Acetate	6.336	43	119568	19.633	ug/l	99
44) Trichloroethene	7.117	130	45597	19.689	ug/l	94
45) 1,2-Dichloropropane	7.428	63	47111	19.429	ug/l	100
46) Dibromomethane	7.580	93	35056	18.991	ug/l	98
47) Bromodichloromethane	7.818	83	72837	19.241	ug/l	94
48) Methyl methacrylate	7.690	41	57413	20.310	ug/l	99
49) 1,4-Dioxane	7.665	88	23433	397.311	ug/l	97
51) 4-Methyl-2-Pentanone	8.574	43	338304	100.520	ug/l	99
52) Toluene	8.714	92	119410	20.253	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	79260	20.266	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	84851	20.008	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	47930	20.093	ug/l	97
56) Ethyl methacrylate	9.116	69	84067	20.496	ug/l	98
57) 1,3-Dichloropropane	9.305	76	81718	20.117	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	176999	87.899	ug/l	99
59) 2-Hexanone	9.427	43	250792	101.288	ug/l	99
60) Dibromochloromethane	9.519	129	56038	20.015	ug/l	99
61) 1,2-Dibromoethane	9.604	107	50060	20.025	ug/l	99
64) Tetrachloroethene	9.269	164	36566	19.066	ug/l	96
65) Chlorobenzene	10.073	112	126540	19.506	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	45959	19.493	ug/l	99
67) Ethyl Benzene	10.189	91	223249	19.723	ug/l	99
68) m/p-Xylenes	10.299	106	167689	39.921	ug/l	100
69) o-Xylene	10.640	106	84280	19.840	ug/l	99
70) Styrene	10.653	104	138465	20.189	ug/l	99
71) Bromoform	10.799	173	36839	19.198	ug/l #	98
73) Isopropylbenzene	10.957	105	211633	19.797	ug/l	99
74) N-amyl acetate	10.842	43	103040	19.555	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	73190	19.823	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	61409m	19.870	ug/l	
77) Bromobenzene	11.195	156	48555	19.432	ug/l	100
78) n-propylbenzene	11.299	91	234567	19.896	ug/l	100
79) 2-Chlorotoluene	11.360	91	149688	19.655	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	173348	19.919	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	27061	19.486	ug/l	98
82) 4-Chlorotoluene	11.451	91	166586	19.968	ug/l	100
83) tert-Butylbenzene	11.713	119	178504	19.617	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	175164	19.807	ug/l	99
85) sec-Butylbenzene	11.890	105	208186	19.649	ug/l	100
86) p-Isopropyltoluene	12.006	119	171507	19.697	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	84759	19.560	ug/l	100
88) 1,4-Dichlorobenzene	12.037	146	84055	19.536	ug/l	100
89) n-Butylbenzene	12.329	91	145015	19.391	ug/l	99
90) Hexachloroethane	12.536	117	36858	18.693	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	87147	19.582	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	16770	18.572	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	49471	18.595	ug/l	98
94) Hexachlorobutadiene	13.719	225	19513	18.672	ug/l	99
95) Naphthalene	13.774	128	198769	19.372	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	52651	19.093	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044650.D
Acq On : 15 Jan 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:59:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

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

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

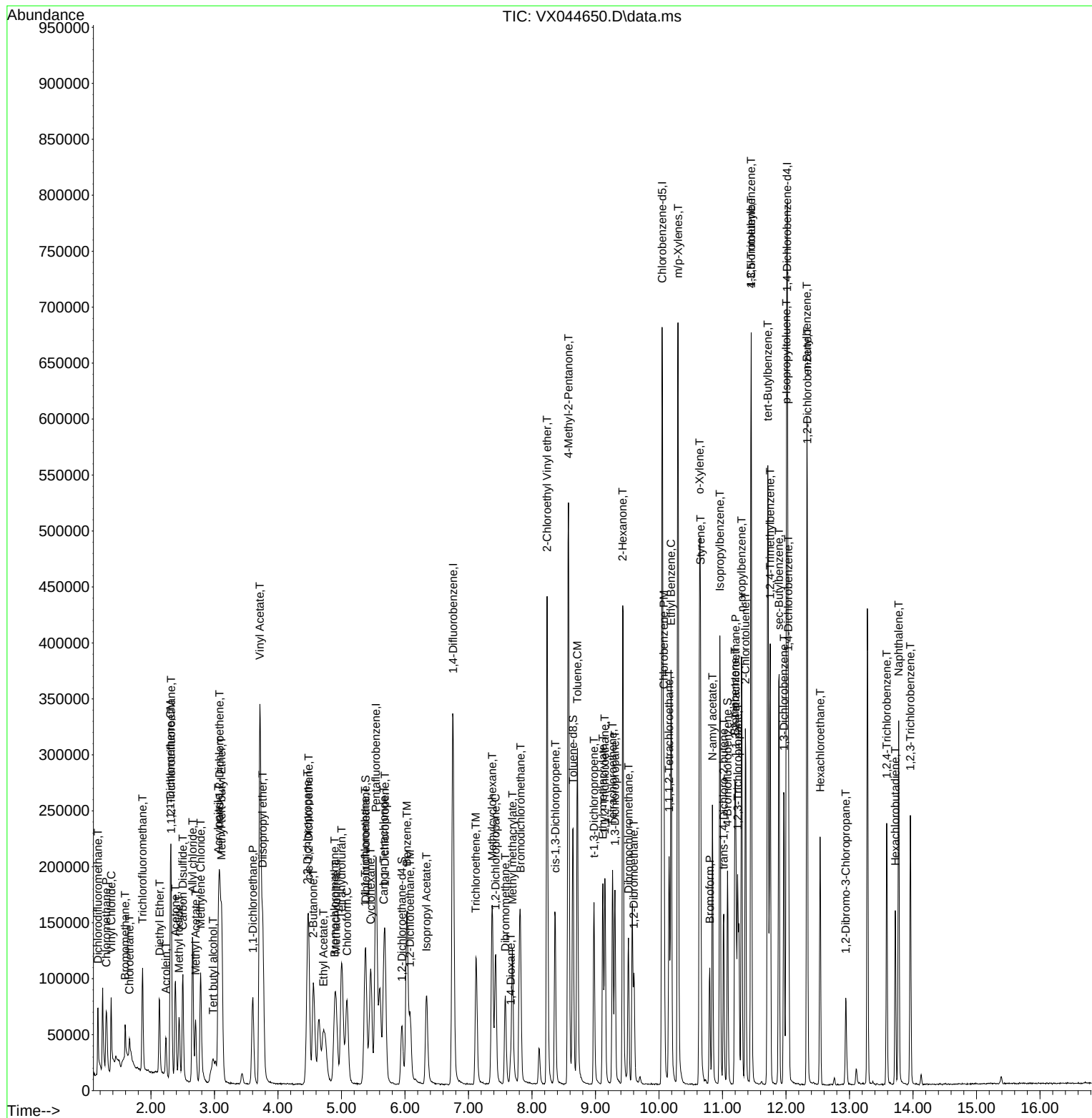
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\  
Data File : VX044650.D  
Acq On    : 15 Jan 2025  11:40  
Operator  : JC/MD  
Sample    : VSTDIC020  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 5      Sample Multiplier: 1
```

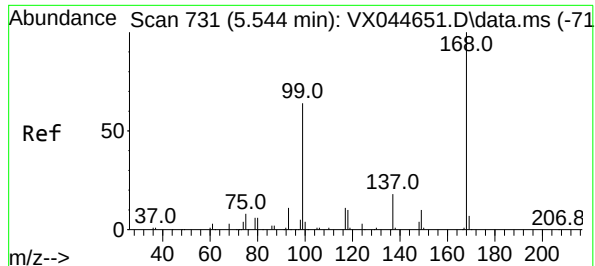
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

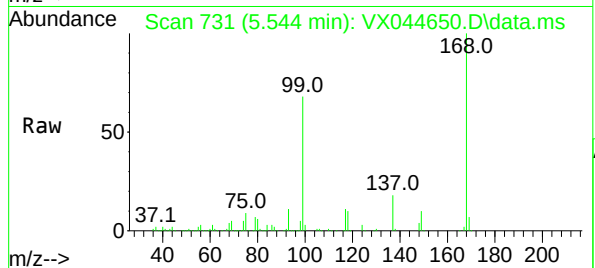
Quant Time: Jan 16 00:59:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

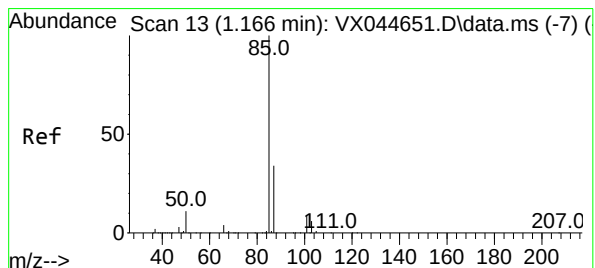
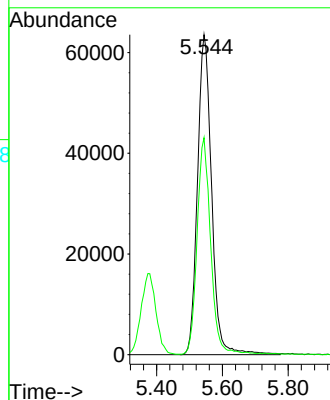
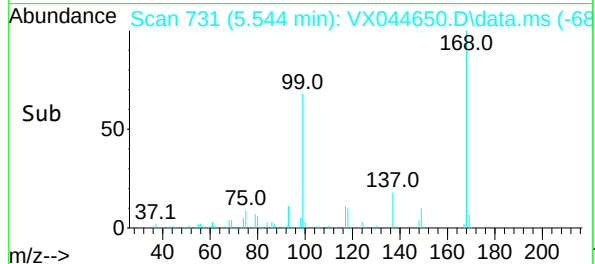
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:168 Resp: 189658
Ion Ratio Lower Upper
168 100
99 67.7 51.1 76.7

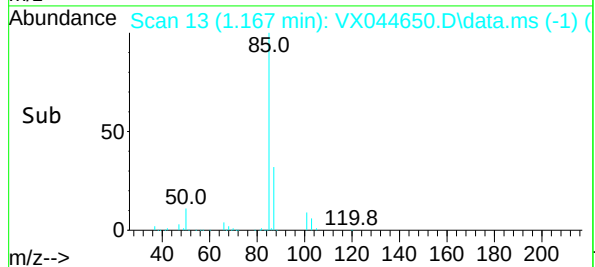
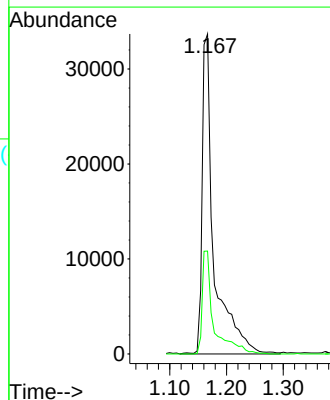
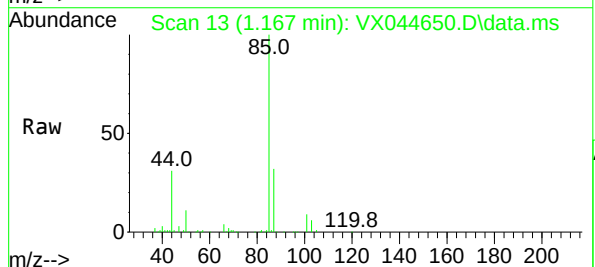
Manual Integrations
APPROVED

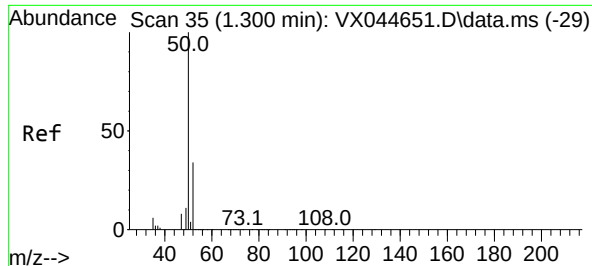
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#2
Dichlorodifluoromethane
Concen: 19.052 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

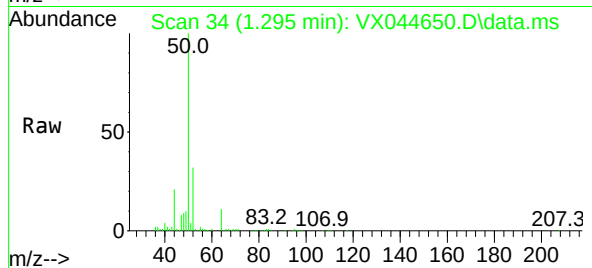
Tgt Ion: 85 Resp: 48623
Ion Ratio Lower Upper
85 100
87 32.1 16.8 50.4





#3
Chloromethane
Concen: 19.866 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

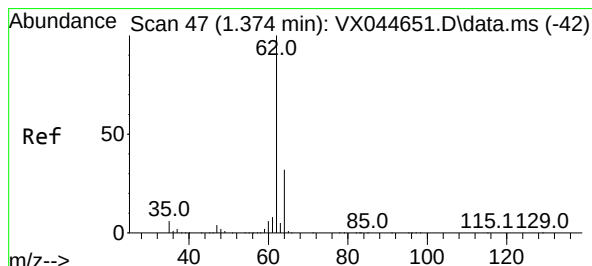
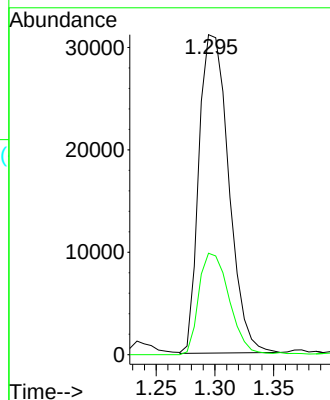
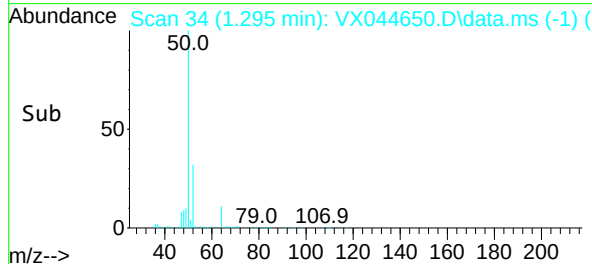
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 50 Resp: 5482
Ion Ratio Lower Upper
50 100
52 31.9 27.0 40.4

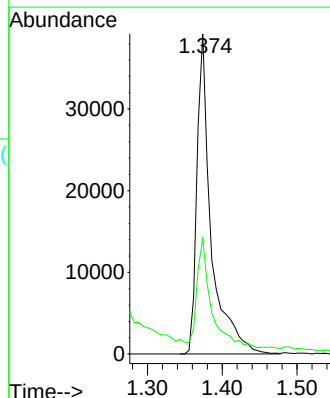
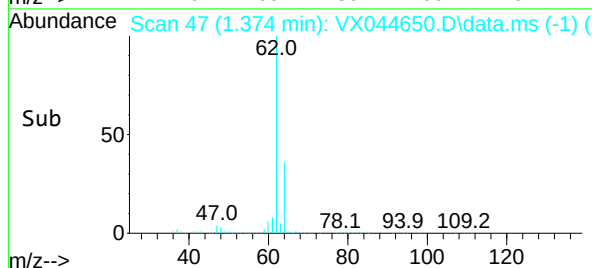
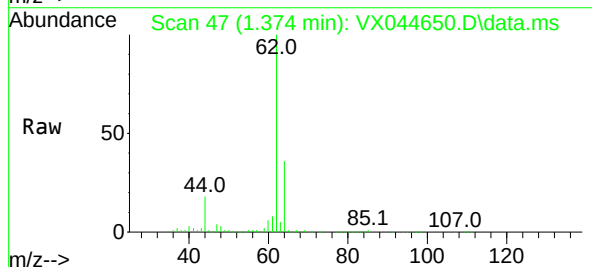
Manual Integrations
APPROVED

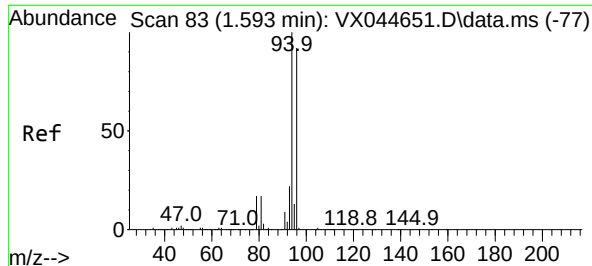
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#4
Vinyl Chloride
Concen: 18.955 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

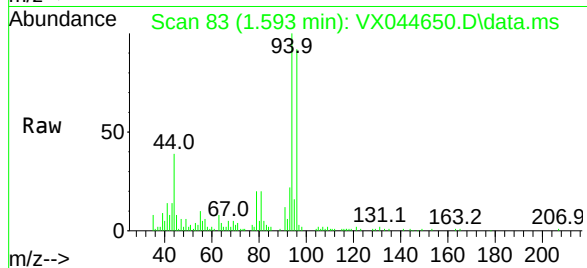
Tgt Ion: 62 Resp: 51689
Ion Ratio Lower Upper
62 100
64 34.3 26.6 39.8





#5
Bromomethane
Concen: 19.333 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

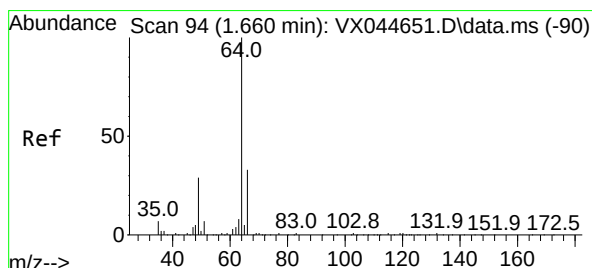
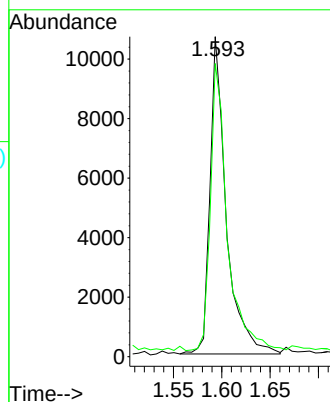
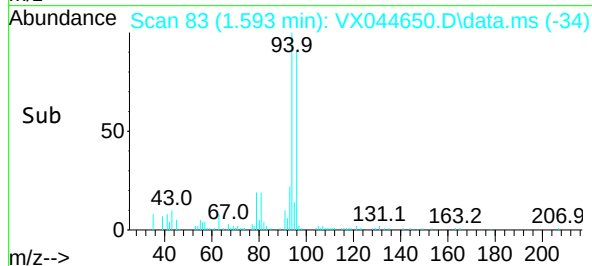
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion: 94 Resp: 1258
Ion Ratio Lower Upper
94 100
96 89.5 72.8 109.2

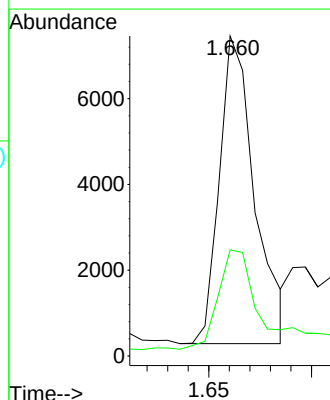
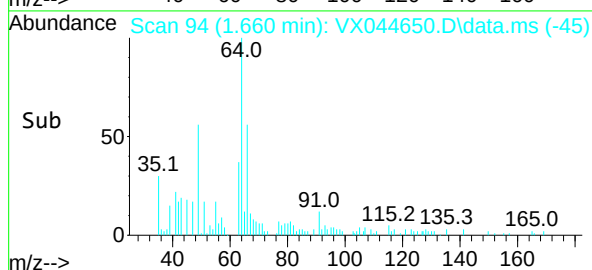
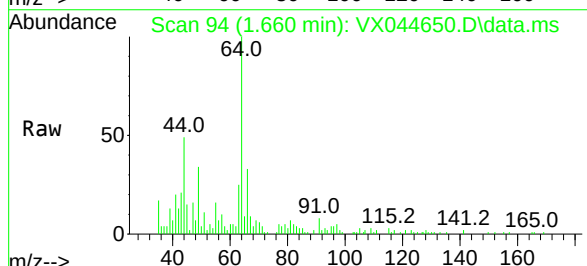
Manual Integrations
APPROVED

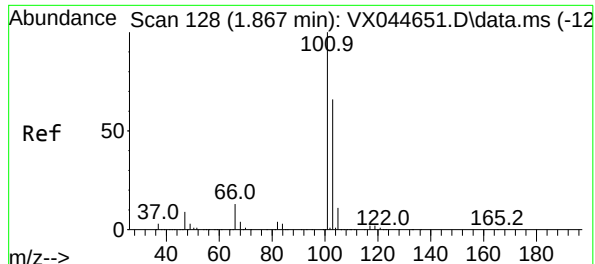
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#6
Chloroethane
Concen: 17.150 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 64 Resp: 8576
Ion Ratio Lower Upper
64 100
66 32.3 26.6 39.8





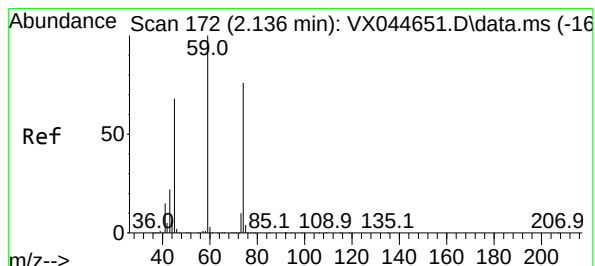
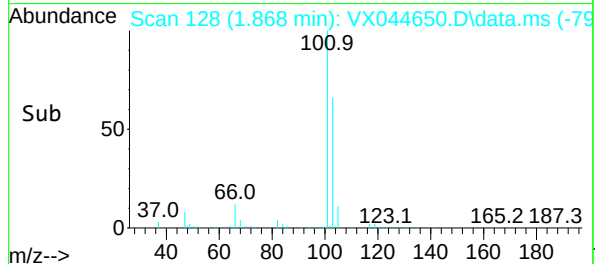
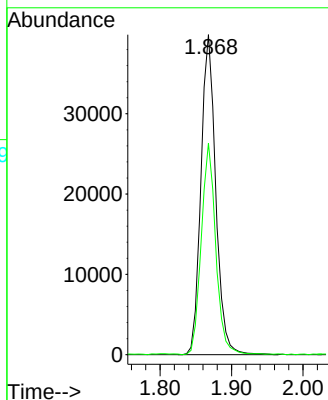
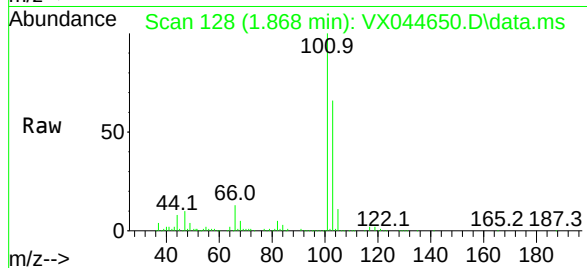
#7
Trichlorofluoromethane
Concen: 19.017 ug/l
RT: 1.868 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 5731
Ion Ratio Lower Upper
101 100
103 65.9 52.5 78.7

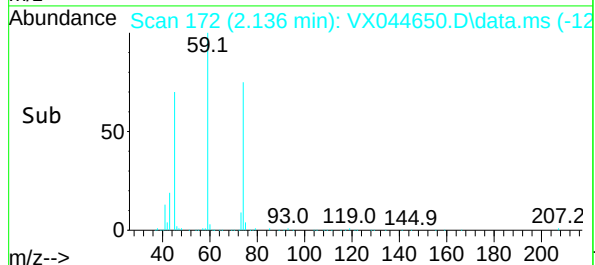
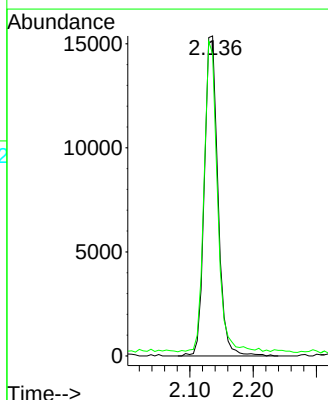
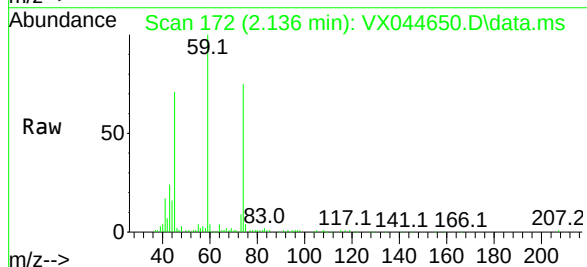
Manual Integrations
APPROVED

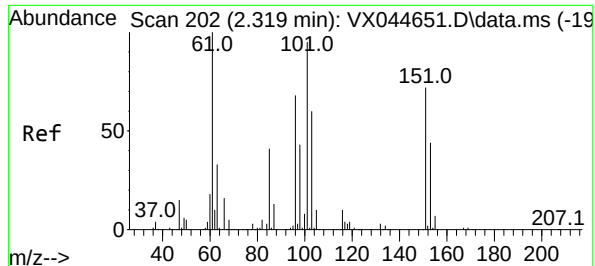
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#8
Diethyl Ether
Concen: 18.934 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 74 Resp: 23029
Ion Ratio Lower Upper
74 100
45 95.7 47.1 141.3





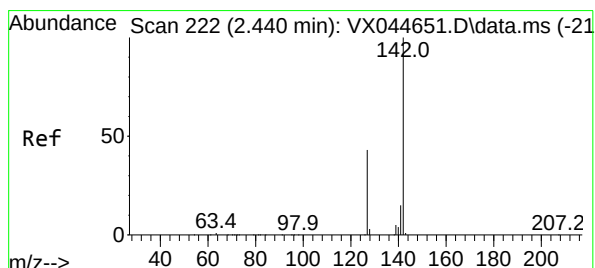
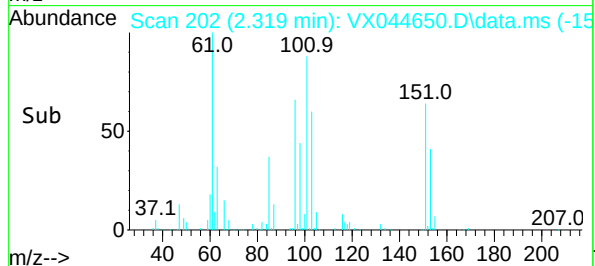
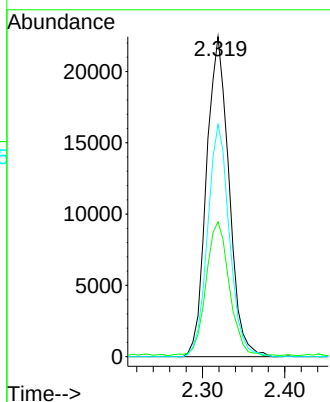
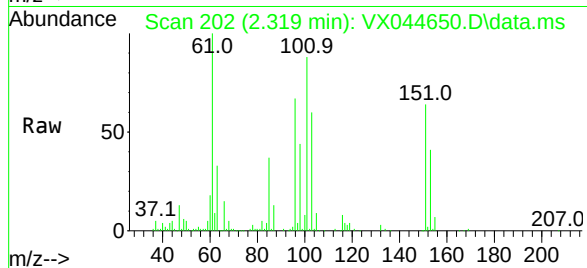
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.807 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:101 Resp: 42608
Ion Ratio Lower Upper
101 100
85 43.3 35.3 52.9
151 70.4 58.2 87.4

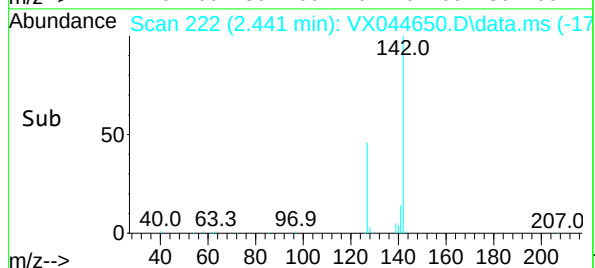
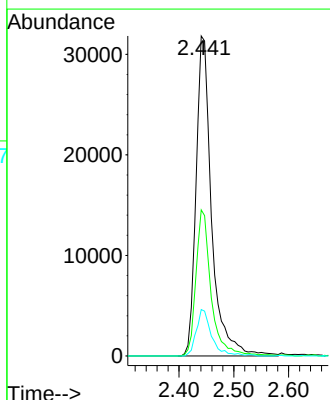
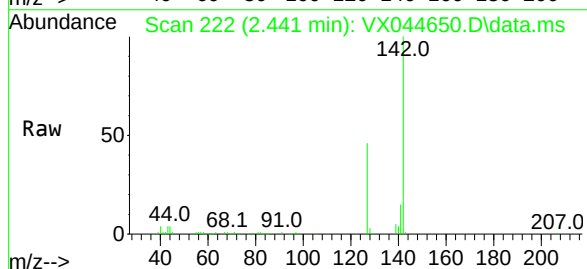
Manual Integrations
APPROVED

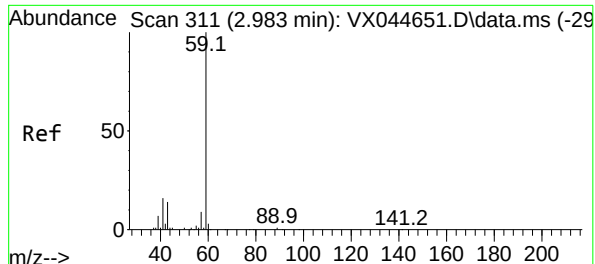
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#10
Methyl Iodide
Concen: 20.401 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:142 Resp: 63102
Ion Ratio Lower Upper
142 100
127 44.6 35.0 52.4
141 14.2 11.7 17.5





#11

Tert butyl alcohol

Concen: 96.990 ug/l m

RT: 2.977 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 62614

Ion Ratio Lower Upper

59 100

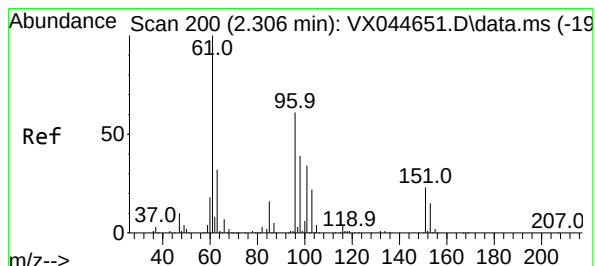
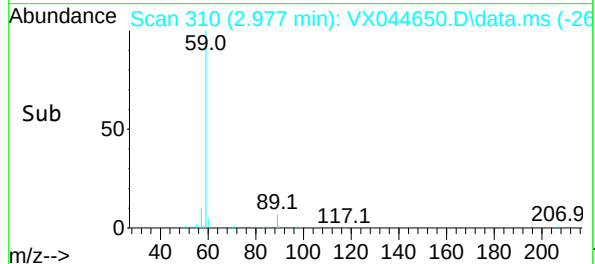
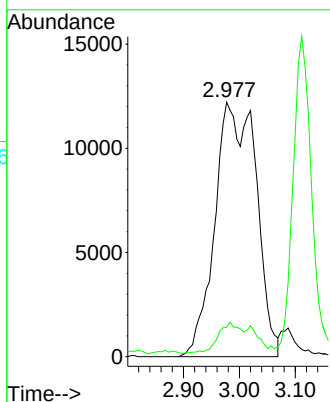
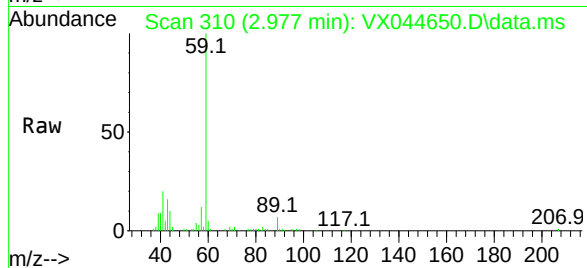
57 6.9 3.9 5.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#12

1,1-Dichloroethene

Concen: 19.547 ug/l

RT: 2.307 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

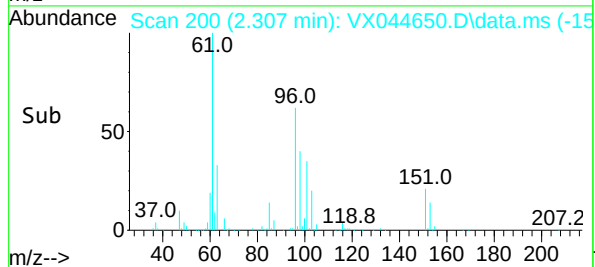
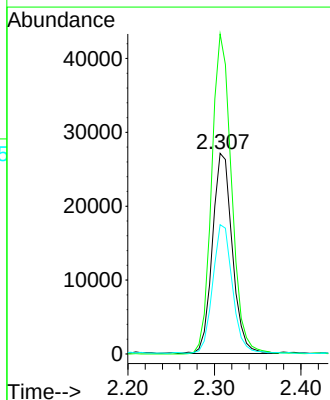
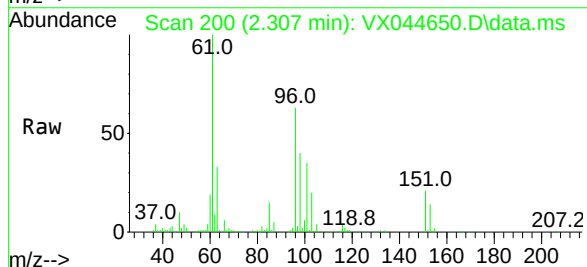
Tgt Ion: 96 Resp: 43408

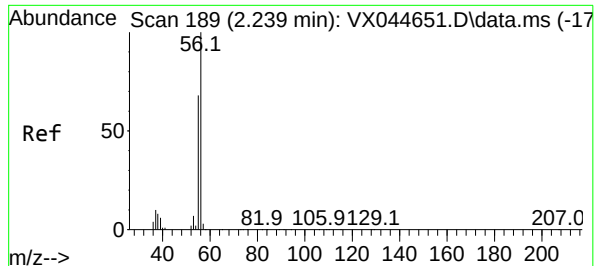
Ion Ratio Lower Upper

96 100

61 159.8 131.1 196.7

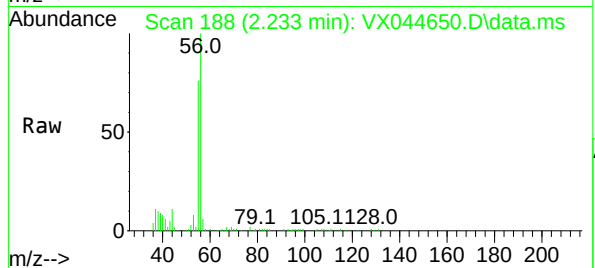
98 63.9 51.2 76.8





#13
Acrolein
Concen: 82.949 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

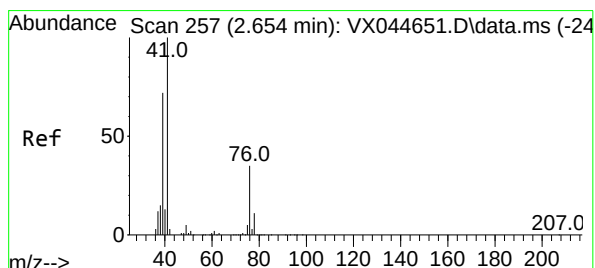
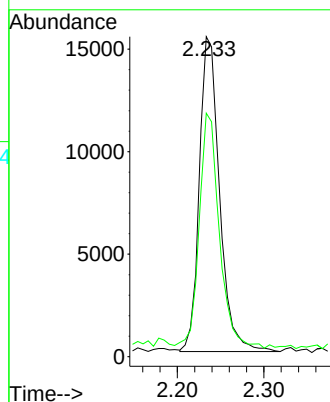
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 56 Resp: 24912
Ion Ratio Lower Upper
56 100
55 74.5 55.1 82.7

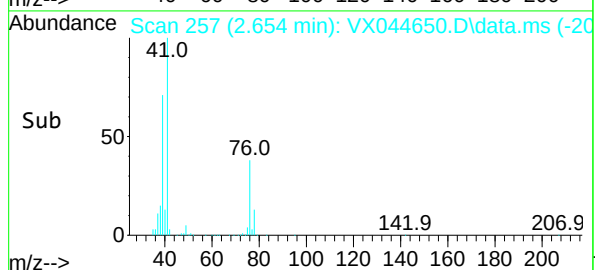
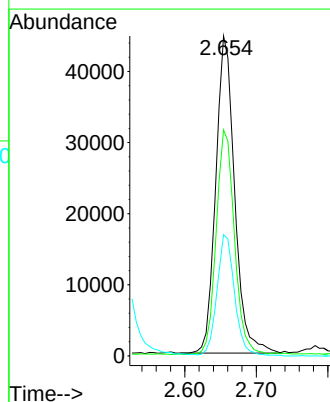
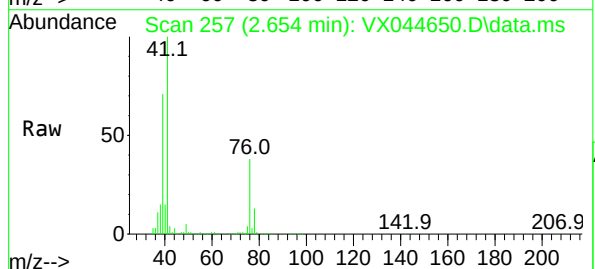
Manual Integrations
APPROVED

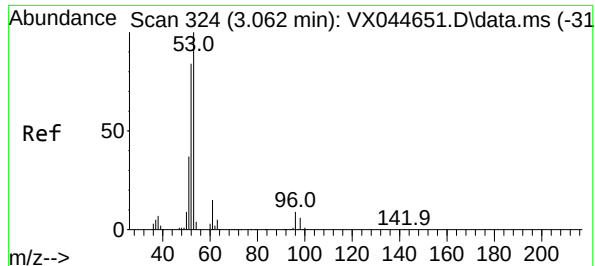
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#14
Allyl chloride
Concen: 18.911 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 41 Resp: 81766
Ion Ratio Lower Upper
41 100
39 68.5 54.9 82.3
76 35.8 28.4 42.6





#15

Acrylonitrile

Concen: 98.515 ug/l

RT: 3.063 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Tgt Ion: 53 Resp: 12331

Ion Ratio Lower Upper

53 100

52 84.1 66.0 99.0

51 36.7 28.9 43.3

Instrument :

MSVOA_X

ClientSampleId :

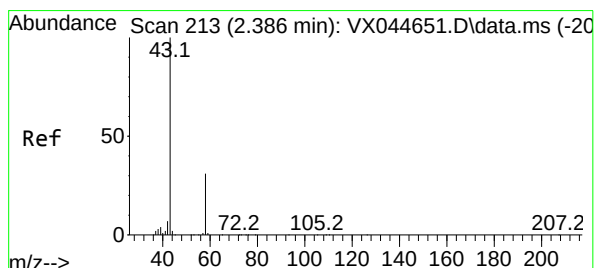
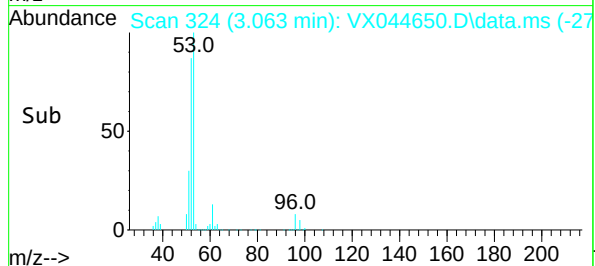
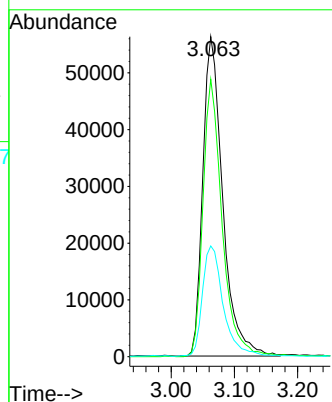
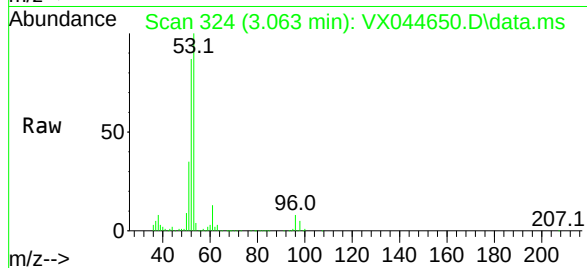
VSTDICC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#16

Acetone

Concen: 91.678 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX044650.D

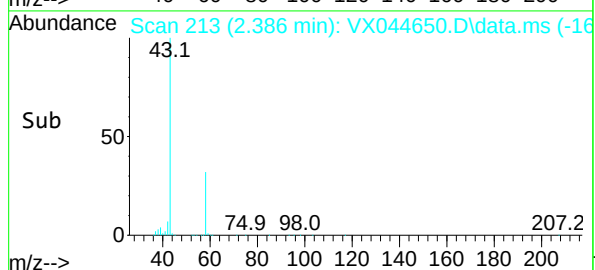
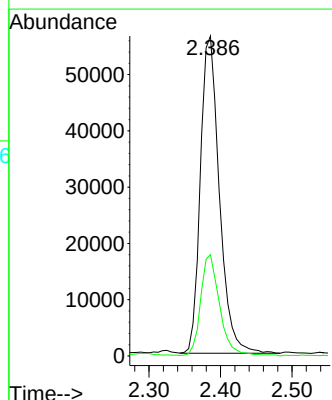
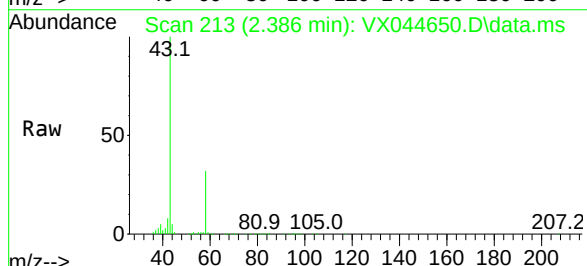
Acq: 15 Jan 2025 11:40

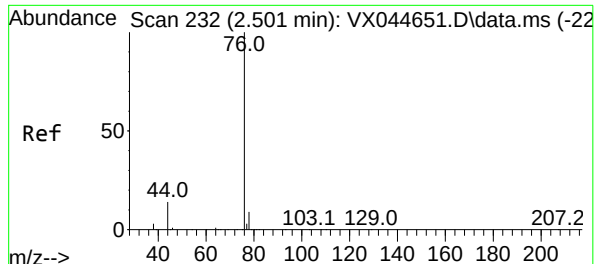
Tgt Ion: 43 Resp: 103836

Ion Ratio Lower Upper

43 100

58 31.9 24.6 37.0





#17

Carbon Disulfide

Concen: 19.662 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 11914

Ion Ratio Lower Upper

76 100

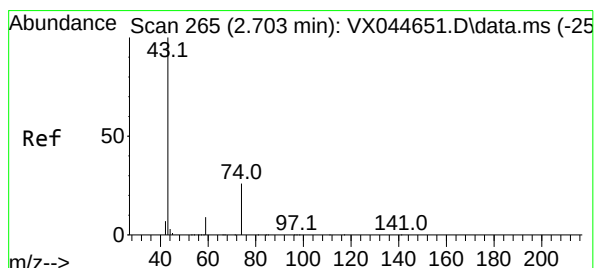
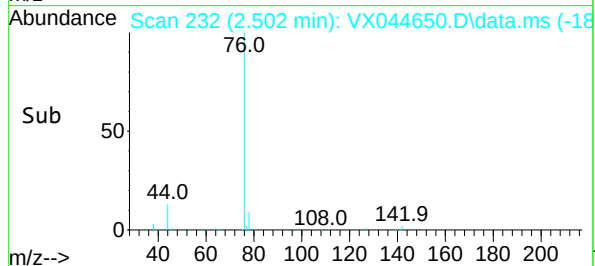
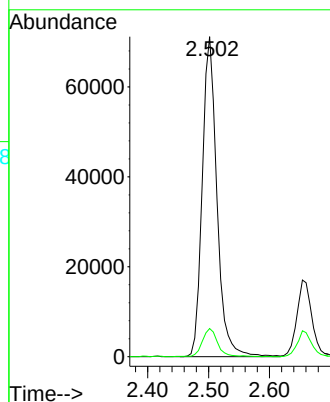
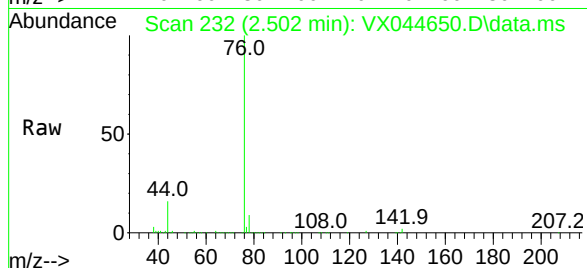
78 8.8 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#18

Methyl Acetate

Concen: 17.939 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044650.D

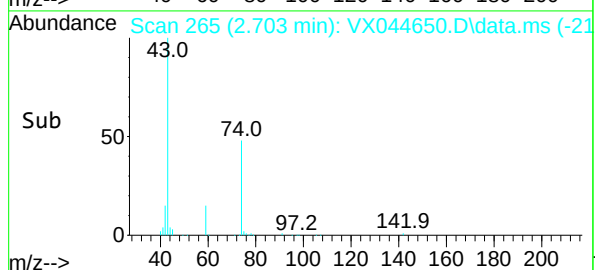
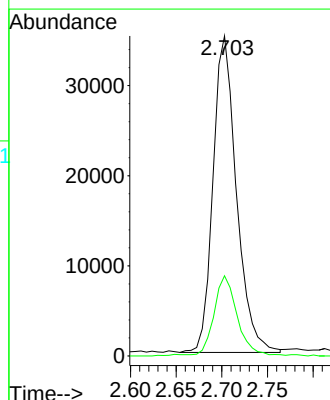
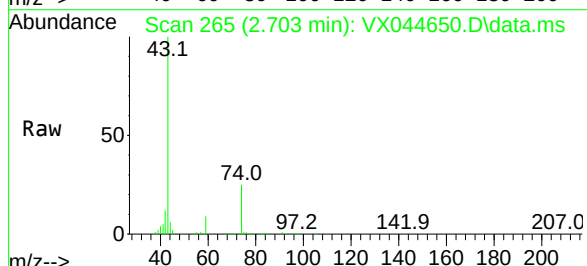
Acq: 15 Jan 2025 11:40

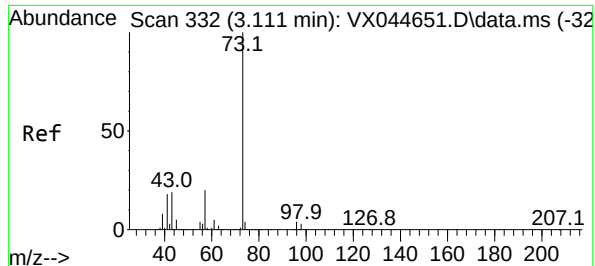
Tgt Ion: 43 Resp: 62684

Ion Ratio Lower Upper

43 100

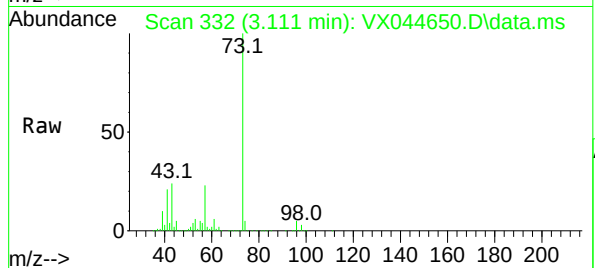
74 24.3 19.8 29.8





#19
Methyl tert-butyl Ether
Concen: 19.718 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

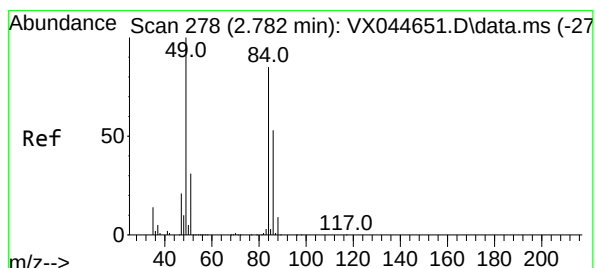
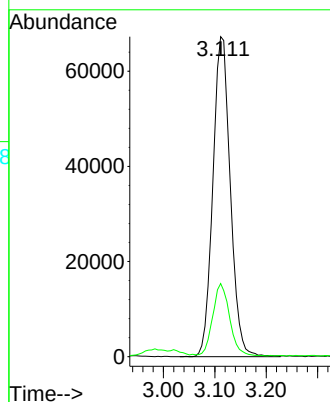
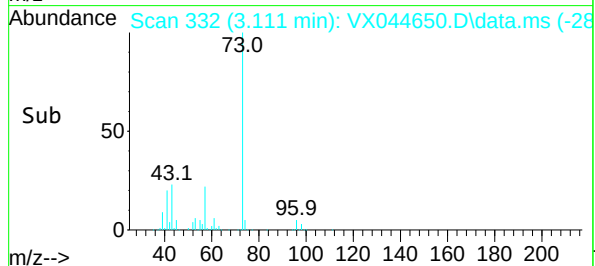
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 73 Resp: 15860
Ion Ratio Lower Upper
73 100
57 22.5 17.4 26.0

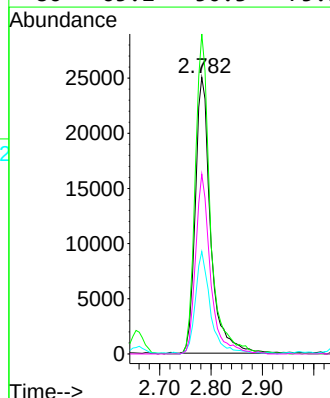
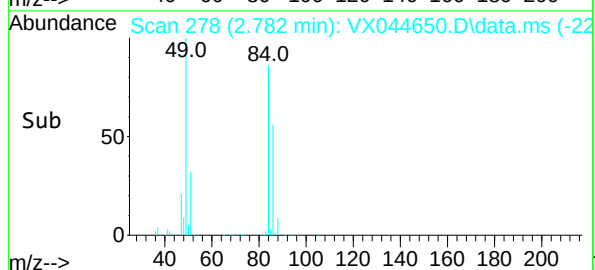
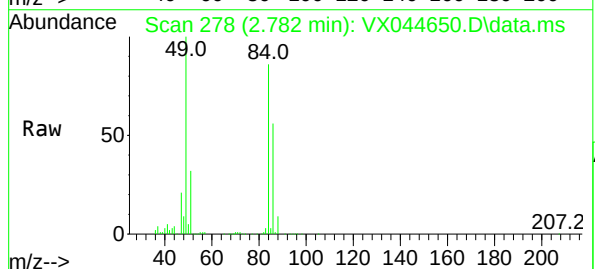
Manual Integrations
APPROVED

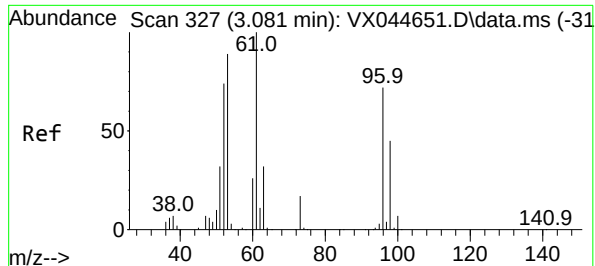
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#20
Methylene Chloride
Concen: 19.623 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

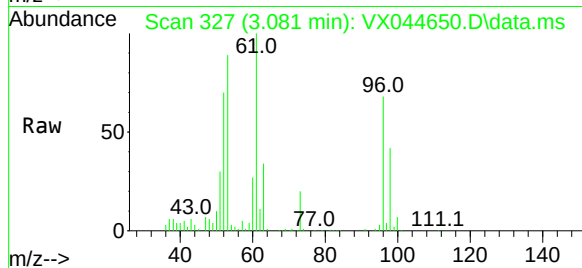
Tgt Ion: 84 Resp: 51758
Ion Ratio Lower Upper
84 100
49 116.0 94.2 141.4
51 37.1 28.8 43.2
86 65.2 50.3 75.5





#21
trans-1,2-Dichloroethene
Concen: 19.317 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

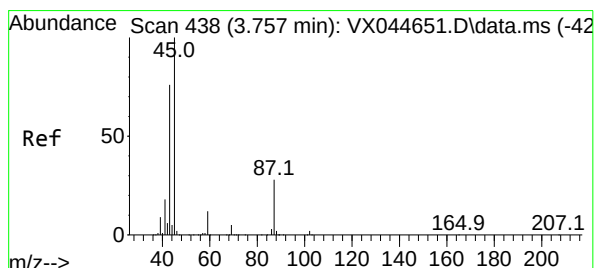
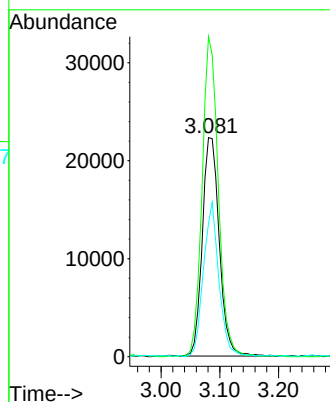
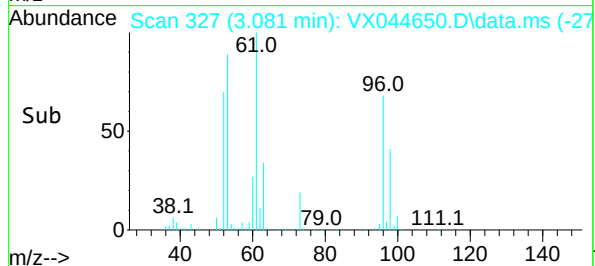
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 96 Resp: 44780
Ion Ratio Lower Upper
96 100
61 146.2 111.0 166.6
98 61.0 50.2 75.2

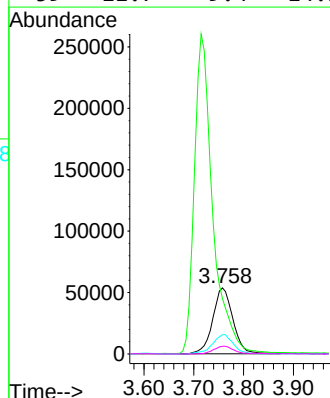
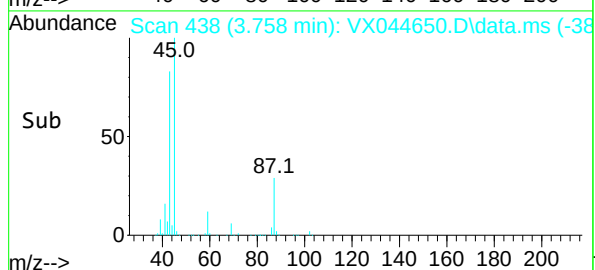
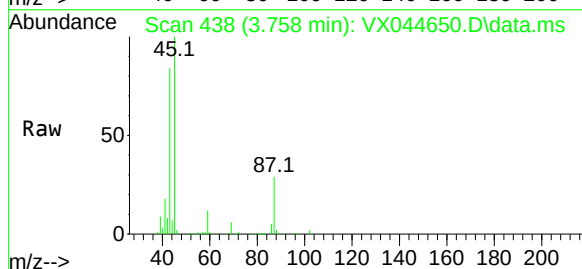
Manual Integrations
APPROVED

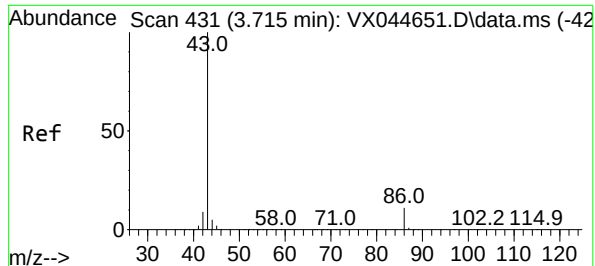
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#22
Diisopropyl ether
Concen: 20.095 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

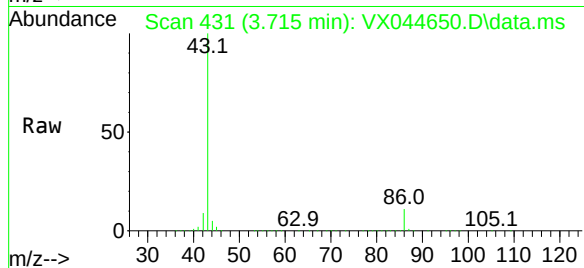
Tgt Ion: 45 Resp: 151033
Ion Ratio Lower Upper
45 100
43 83.3 61.0 91.6
87 29.1 22.7 34.1
59 11.7 9.4 14.2





#23
Vinyl Acetate
Concen: 101.337 ug/l
RT: 3.715 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

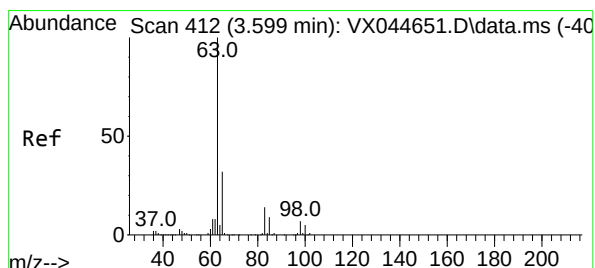
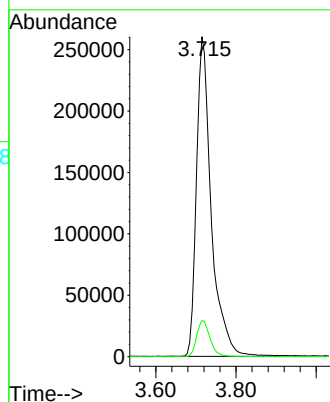
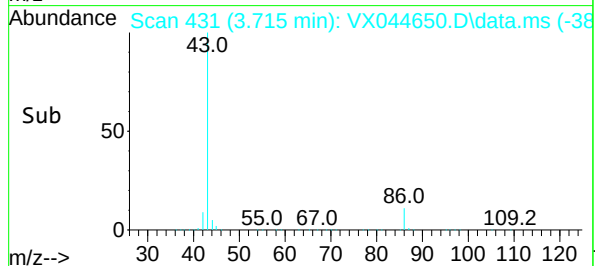
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



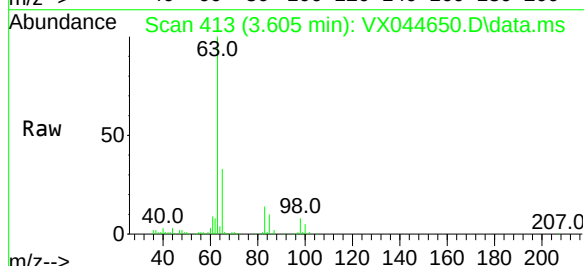
Tgt Ion: 43 Resp: 66664
Ion Ratio Lower Upper
43 100
86 11.3 8.9 13.3

Manual Integrations
APPROVED

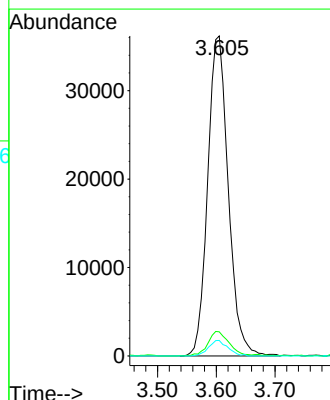
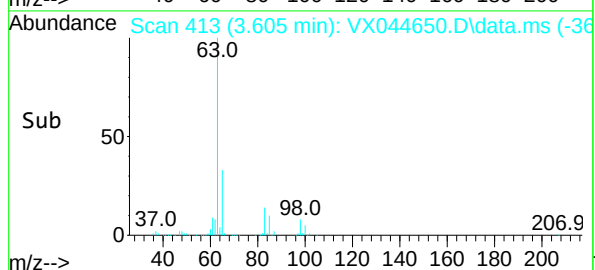
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

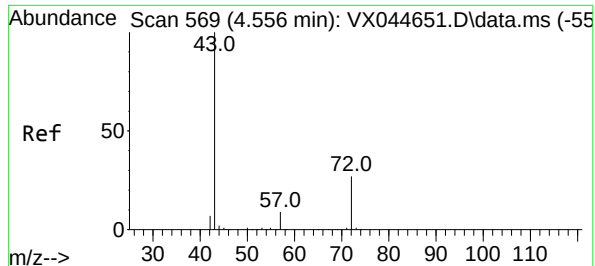


#24
1,1-Dichloroethane
Concen: 19.758 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40



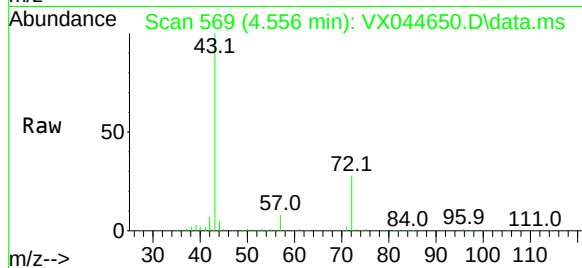
Tgt Ion: 63 Resp: 88060
Ion Ratio Lower Upper
63 100
98 7.4 3.6 10.9
100 4.8 2.5 7.5





#25
2-Butanone
Concen: 99.946 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

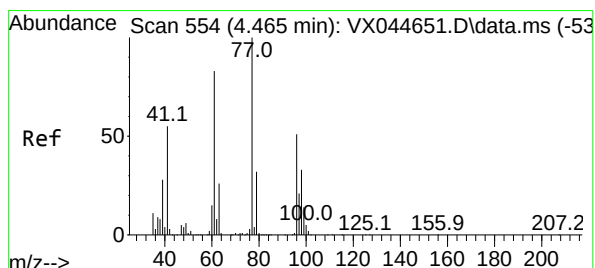
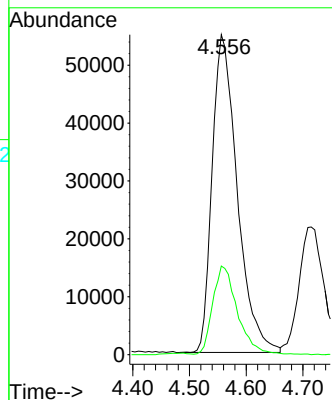
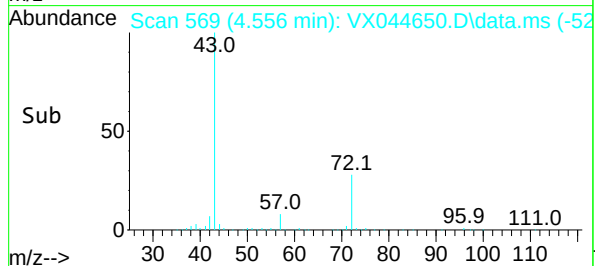
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion: 43 Resp: 168309
Ion Ratio Lower Upper
43 100
72 27.5 21.7 32.5

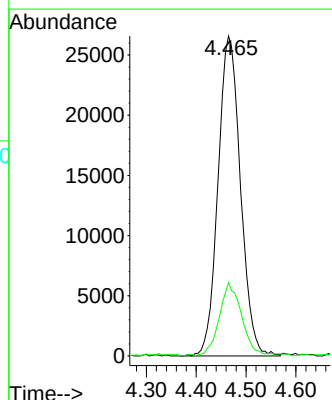
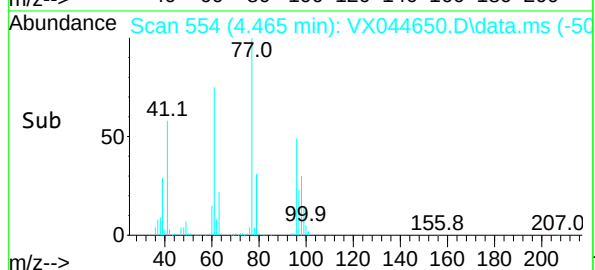
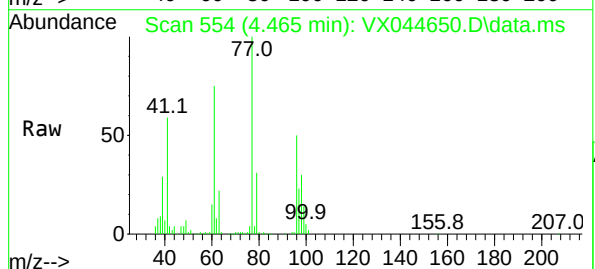
Manual Integrations
APPROVED

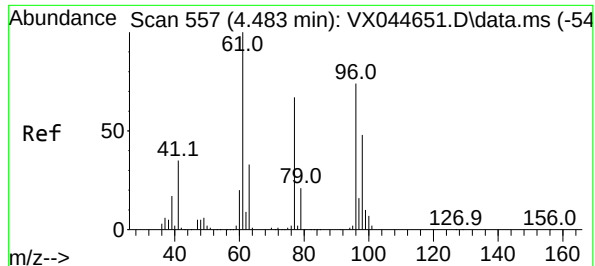
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#26
2,2-Dichloropropane
Concen: 19.209 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 77 Resp: 82977
Ion Ratio Lower Upper
77 100
97 23.3 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 19.406 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

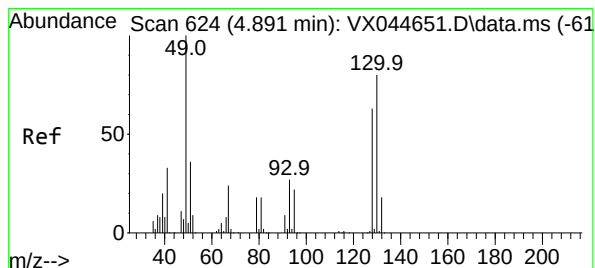
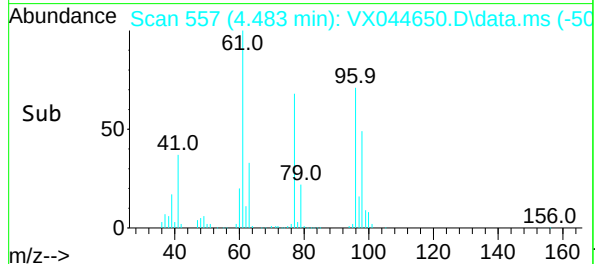
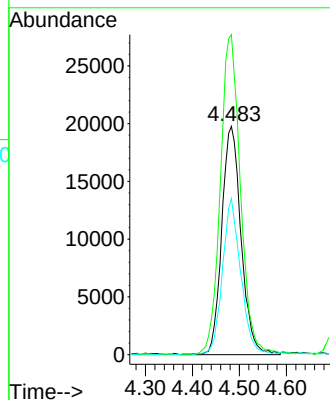
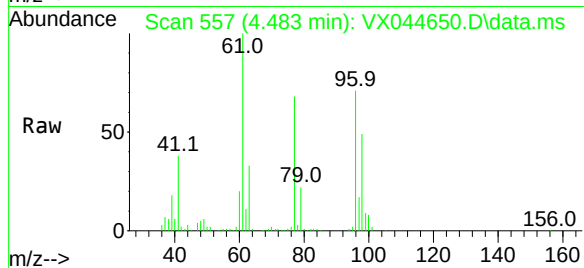
Tgt Ion: 96	Resp: 56594
Ion Ratio	Lower Upper
96 100	
61 145.5	0.0 296.0
98 65.0	0.0 130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#28

Bromochloromethane

Concen: 18.978 ug/l

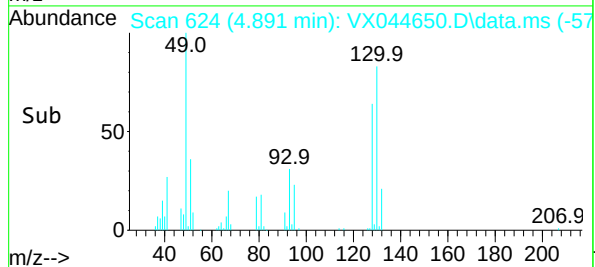
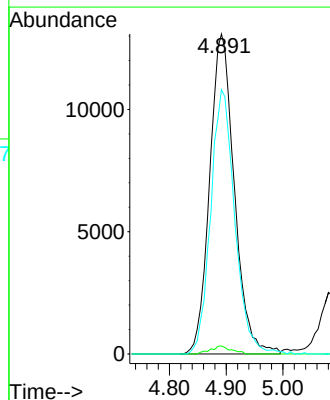
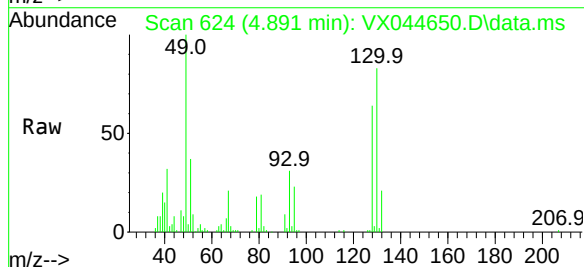
RT: 4.891 min Scan# 624

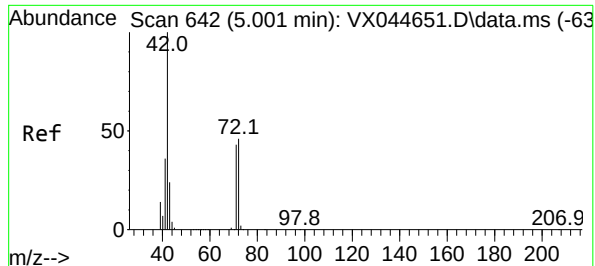
Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Tgt Ion: 49	Resp: 39526
Ion Ratio	Lower Upper
49 100	
129 2.1	0.0 4.4
130 80.8	63.4 95.2





#29

Tetrahydrofuran

Concen: 97.807 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 42 Resp: 10624

Ion Ratio Lower Upper

42 100

72 48.2 38.2 57.4

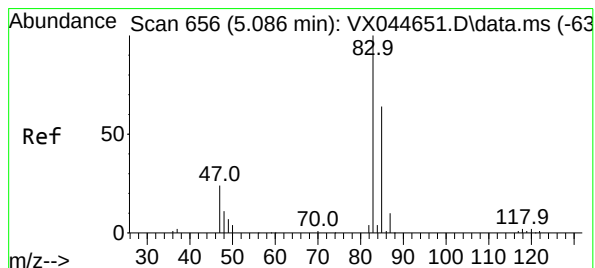
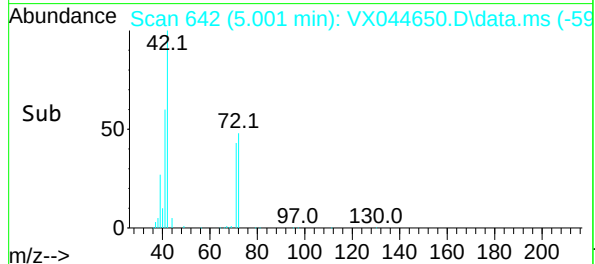
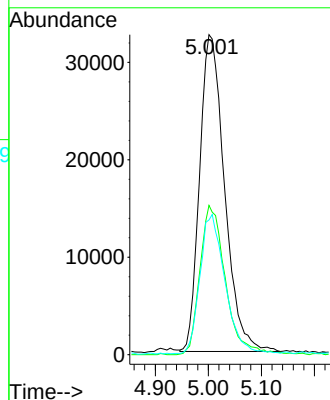
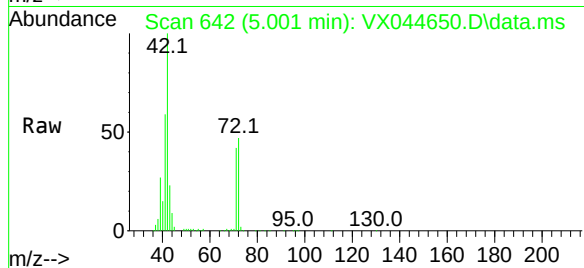
71 44.0 35.3 52.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#30

Chloroform

Concen: 19.985 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044650.D

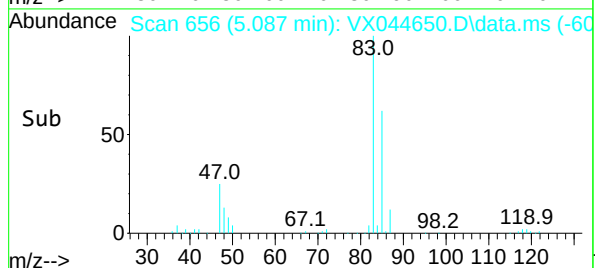
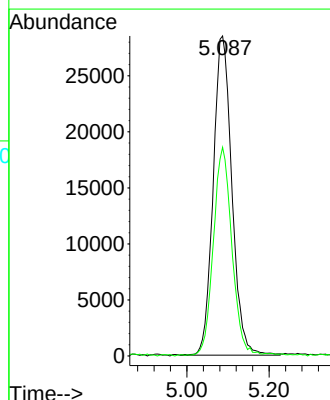
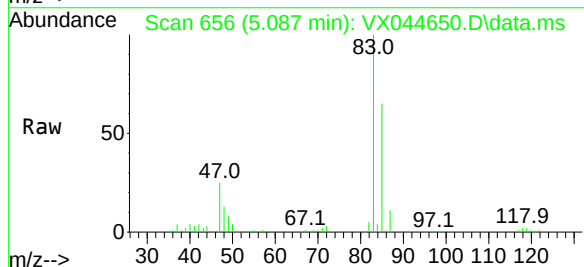
Acq: 15 Jan 2025 11:40

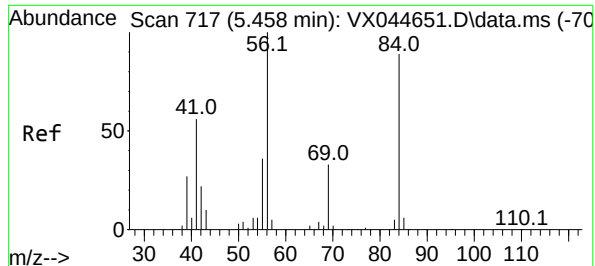
Tgt Ion: 83 Resp: 89891

Ion Ratio Lower Upper

83 100

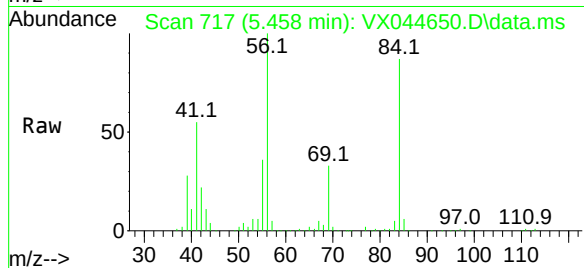
85 65.1 51.2 76.8





#31
Cyclohexane
Concen: 20.120 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

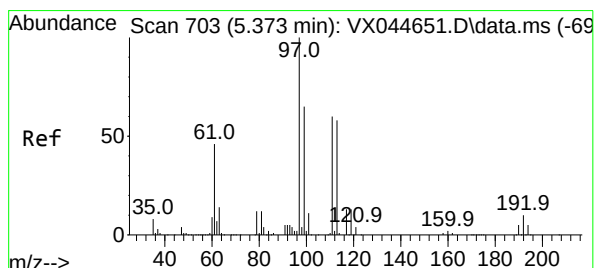
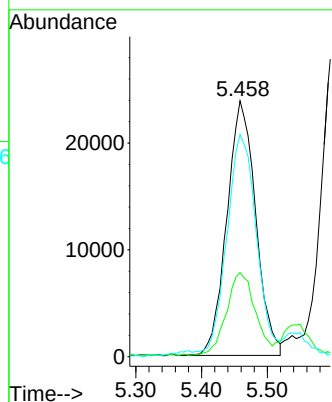
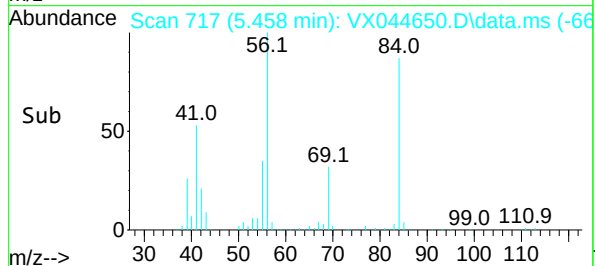
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



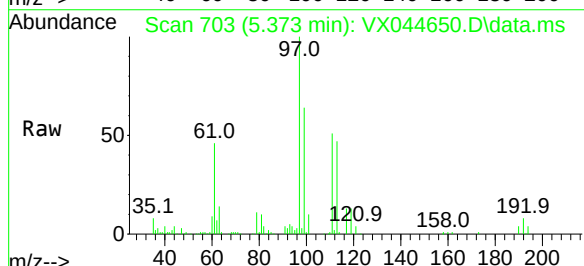
Tgt Ion: 56 Resp: 7252
Ion Ratio Lower Upper
56 100
69 32.5 26.8 40.2
84 85.4 71.0 106.4

Manual Integrations
APPROVED

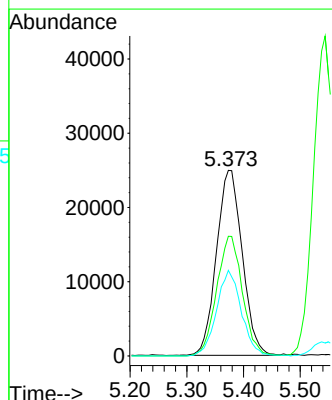
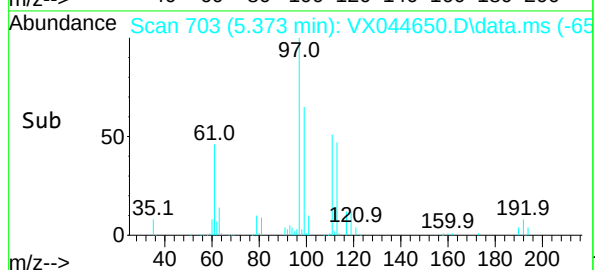
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

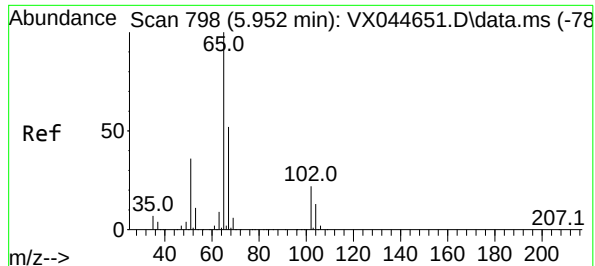


#32
1,1,1-Trichloroethane
Concen: 19.019 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40



Tgt Ion: 97 Resp: 78644
Ion Ratio Lower Upper
97 100
99 64.7 51.6 77.4
61 44.6 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 18.311 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 5242

Ion Ratio Lower Upper

65 100

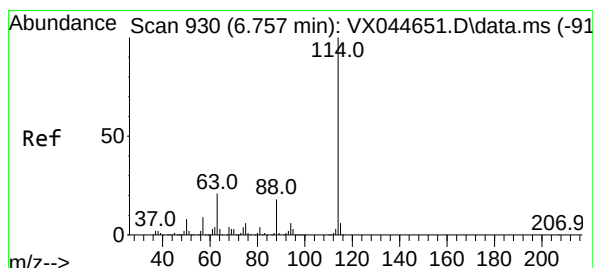
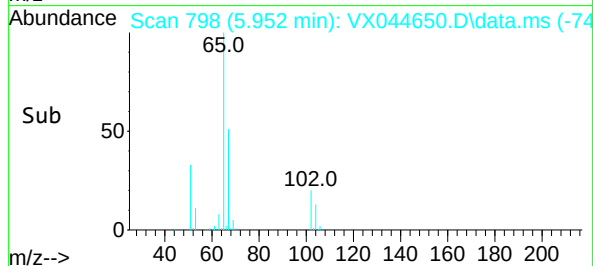
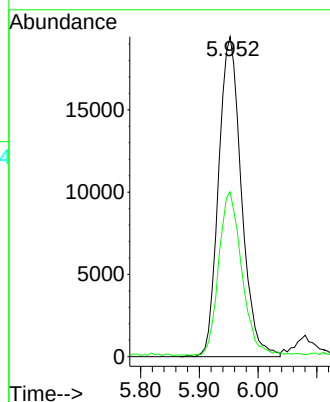
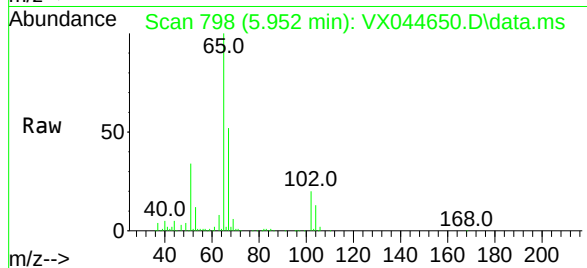
67 51.5 0.0 103.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

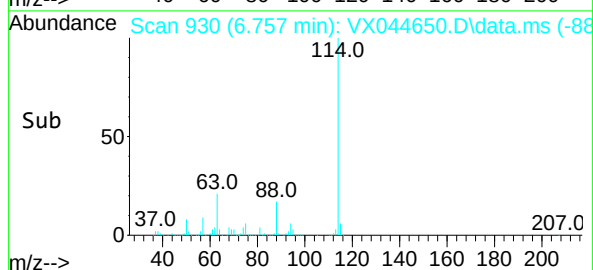
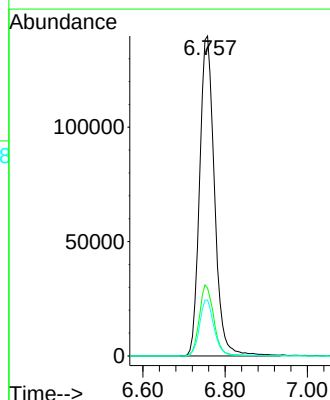
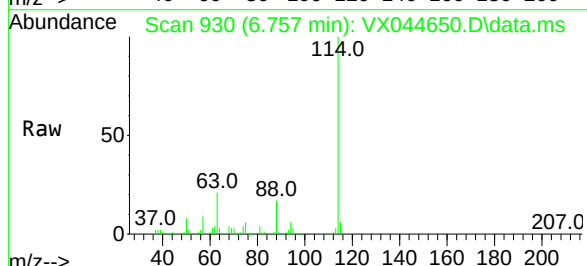
Tgt Ion:114 Resp: 351528

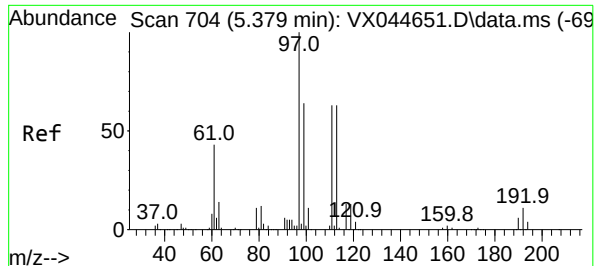
Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.0

88 17.4 0.0 35.4





#35

Dibromofluoromethane

Concen: 18.173 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:113 Resp: 4058

Ion Ratio Lower Upper

113 100

111 104.7 81.6 122.4

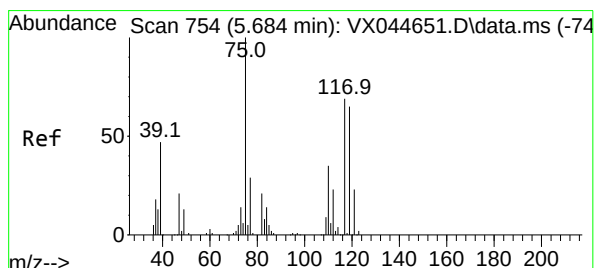
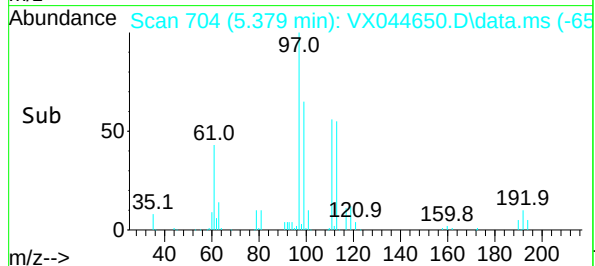
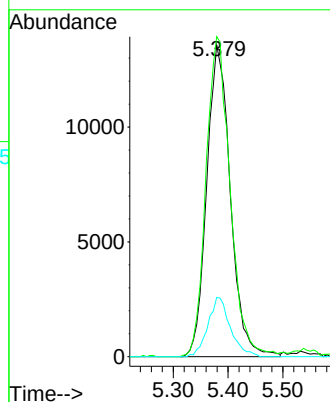
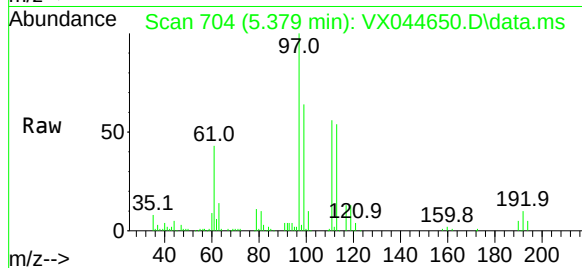
192 18.0 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#36

1,1-Dichloropropene

Concen: 19.076 ug/l

RT: 5.684 min Scan# 754

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

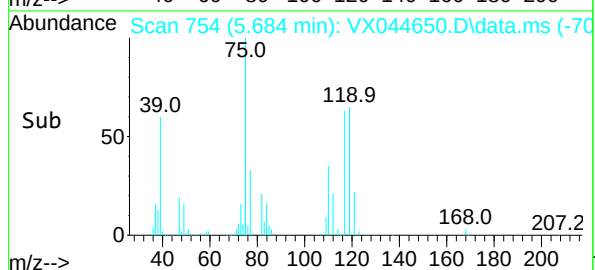
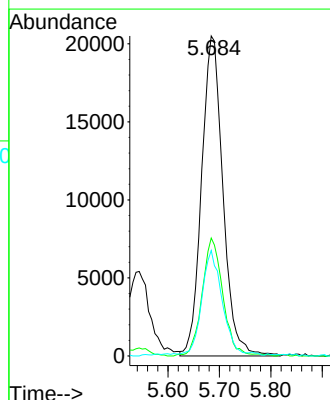
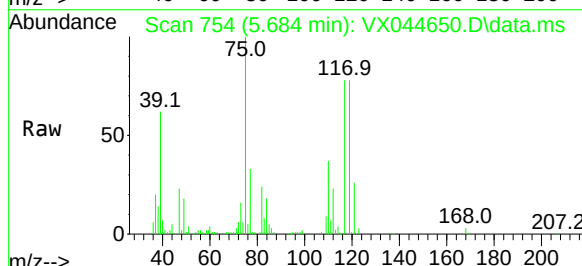
Tgt Ion: 75 Resp: 59303

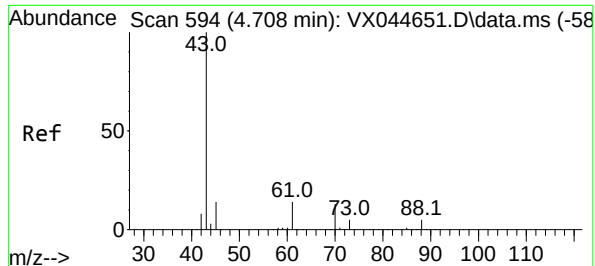
Ion Ratio Lower Upper

75 100

110 35.8 17.9 53.8

77 29.8 24.5 36.7





#37

Ethyl Acetate

Concen: 20.034 ug/l

RT: 4.715 min Scan# 594

Delta R.T. 0.006 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 66324

Ion	Ratio	Lower	Upper
43	100		
61	15.0	10.9	16.3
70	12.0	10.1	15.1

Instrument :

MSVOA_X

ClientSampleId :

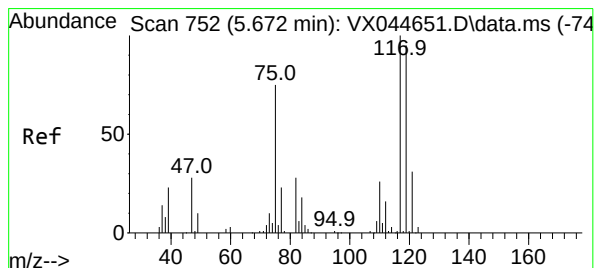
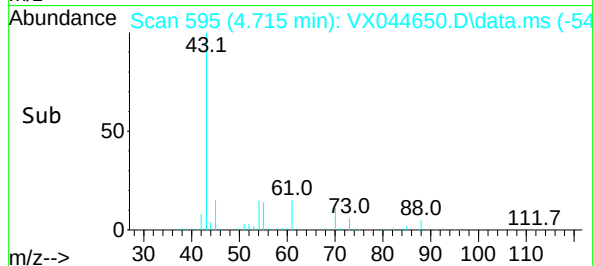
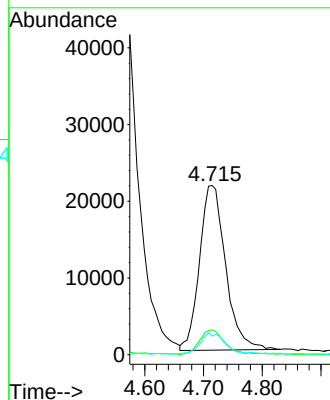
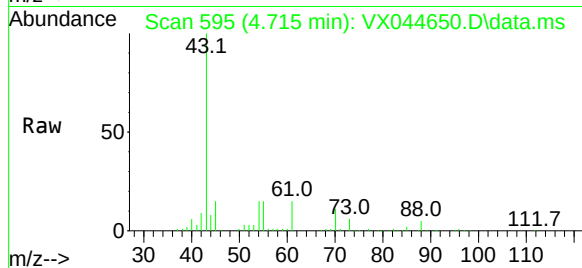
VSTDIC020

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#38

Carbon Tetrachloride

Concen: 18.829 ug/l

RT: 5.666 min Scan# 751

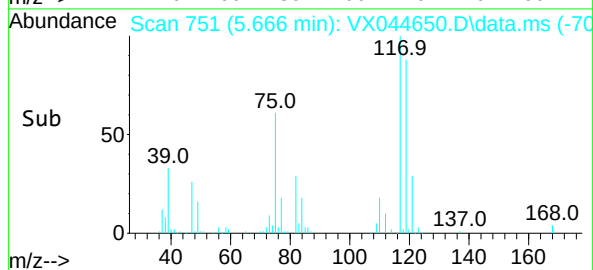
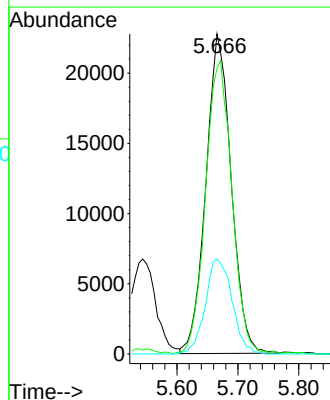
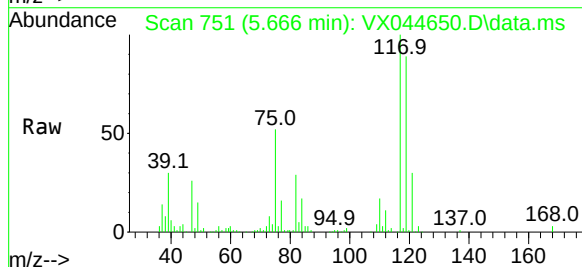
Delta R.T. -0.006 min

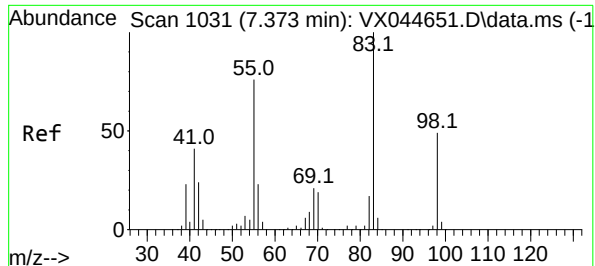
Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Tgt Ion:117 Resp: 65838

Ion	Ratio	Lower	Upper
117	100		
119	89.1	76.0	114.0
121	29.7	24.6	36.8





#39

Methylcyclohexane

Concen: 18.961 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 7824

Ion Ratio Lower Upper

83 100

55 79.3 60.5 90.7

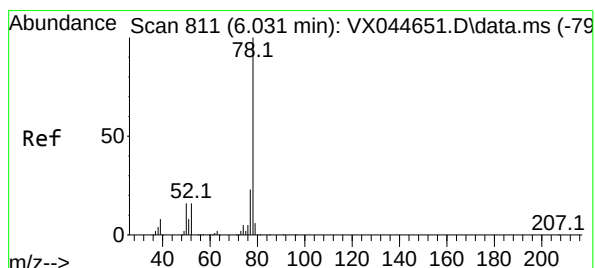
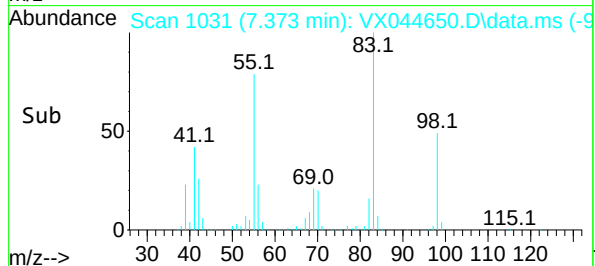
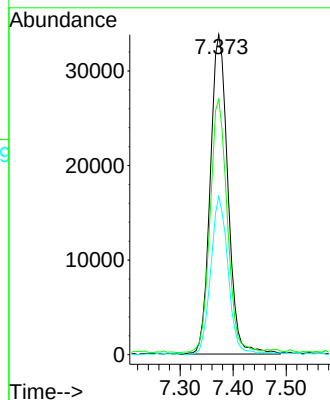
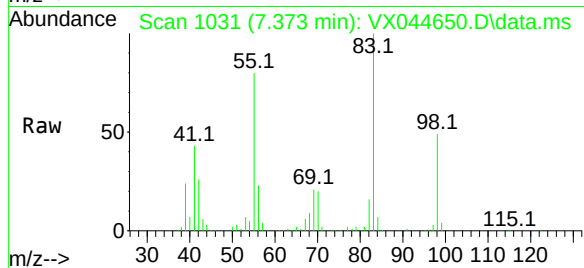
98 49.2 39.0 58.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#40

Benzene

Concen: 19.911 ug/l

RT: 6.032 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044650.D

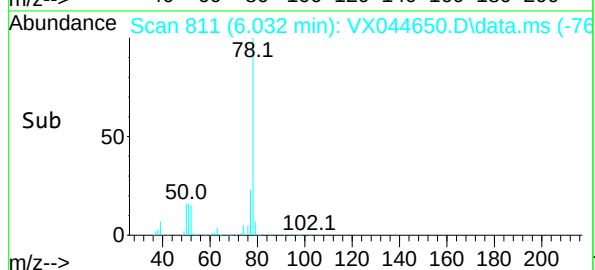
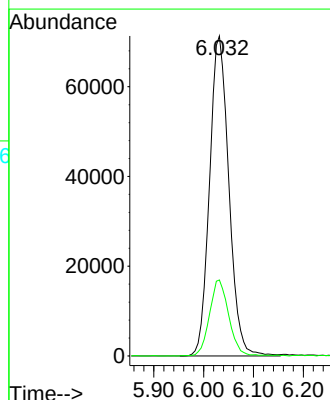
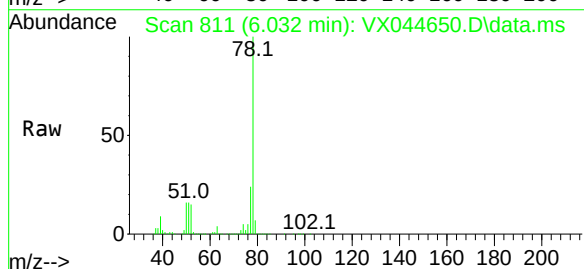
Acq: 15 Jan 2025 11:40

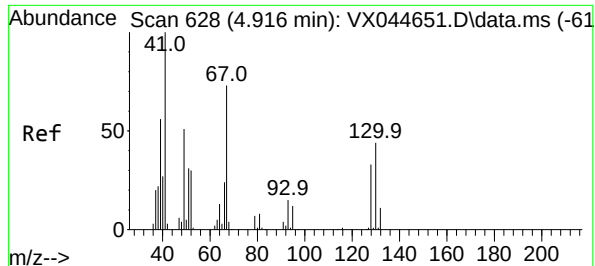
Tgt Ion: 78 Resp: 191801

Ion Ratio Lower Upper

78 100

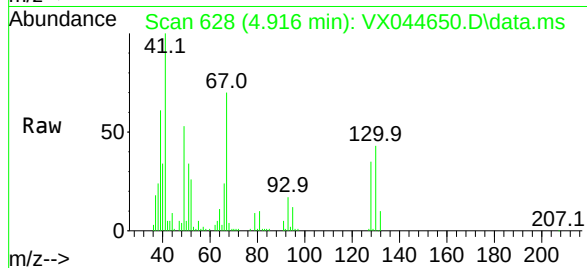
77 23.7 18.7 28.1





#41
Methacrylonitrile
Concen: 19.016 ug/l
RT: 4.916 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

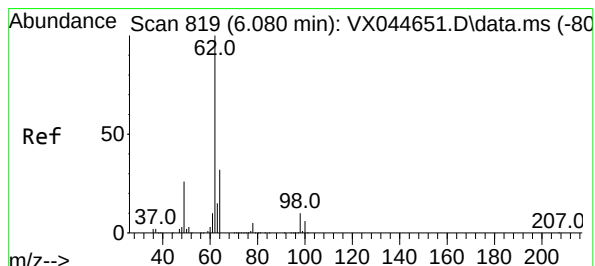
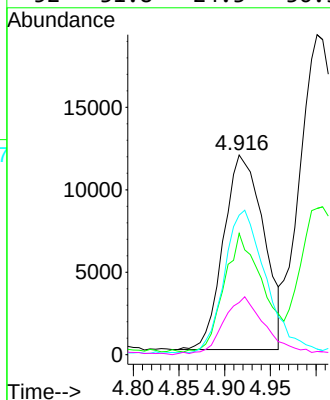
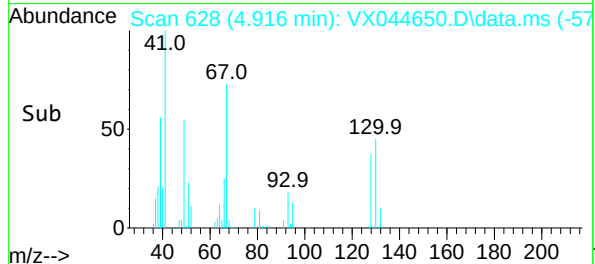
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion: 41 Resp: 36180
Ion Ratio Lower Upper
41 100
39 58.8 44.4 66.6
67 75.9 60.6 90.8
52 31.8 24.3 36.5

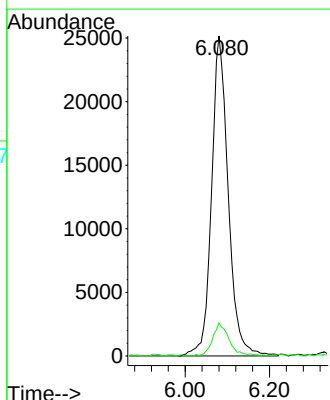
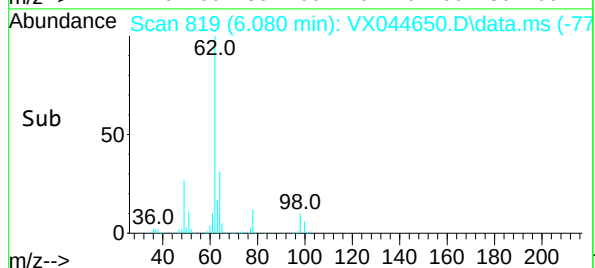
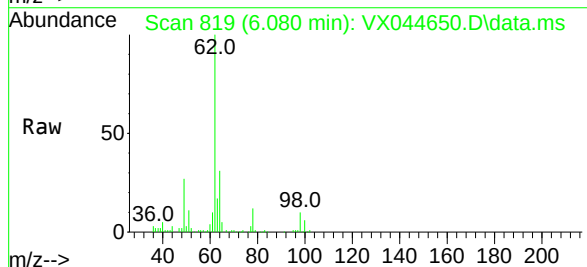
Manual Integrations
APPROVED

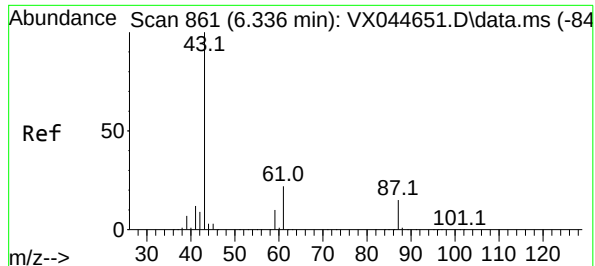
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#42
1,2-Dichloroethane
Concen: 19.635 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 62 Resp: 69034
Ion Ratio Lower Upper
62 100
98 10.2 0.0 19.4





#43

Isopropyl Acetate

Concen: 19.633 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 11956

Ion Ratio Lower Upper

43 100

61 21.1 16.6 24.8

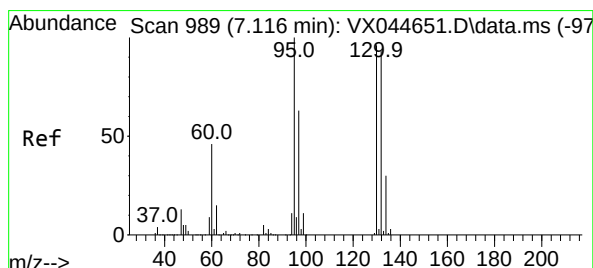
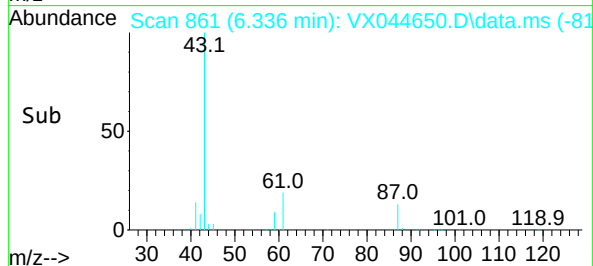
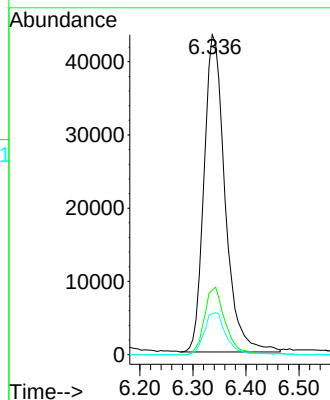
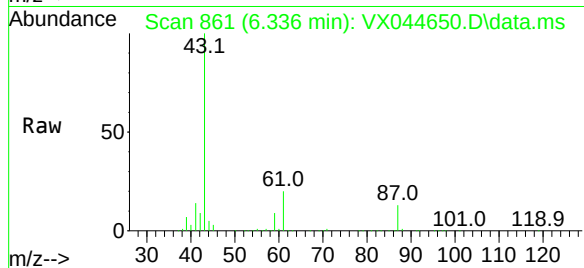
87 13.5 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#44

Trichloroethene

Concen: 19.689 ug/l

RT: 7.117 min Scan# 989

Delta R.T. 0.000 min

Lab File: VX044650.D

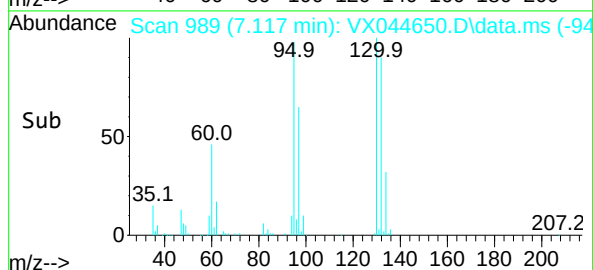
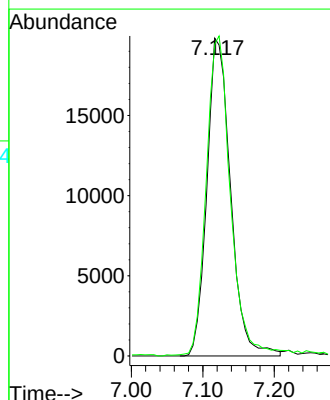
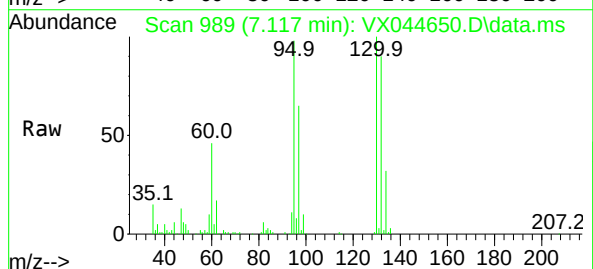
Acq: 15 Jan 2025 11:40

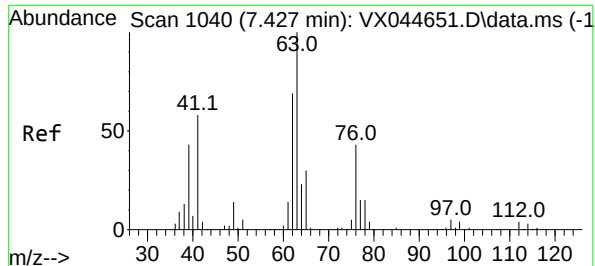
Tgt Ion:130 Resp: 45597

Ion Ratio Lower Upper

130 100

95 97.7 0.0 208.2





#45

1,2-Dichloropropane

Concen: 19.429 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 4711

Ion Ratio Lower Upper

63 100

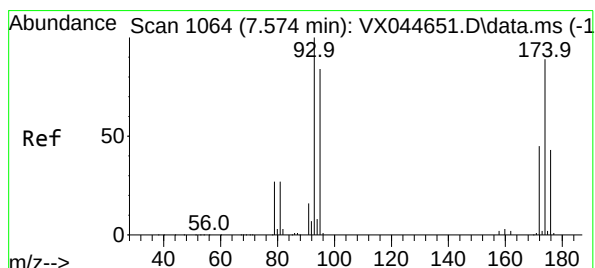
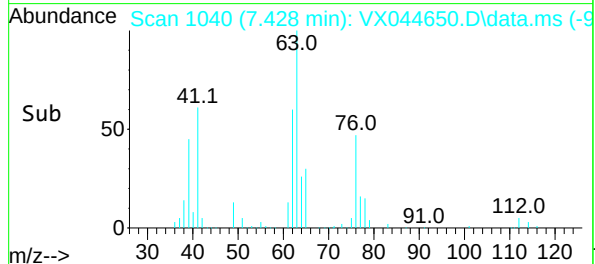
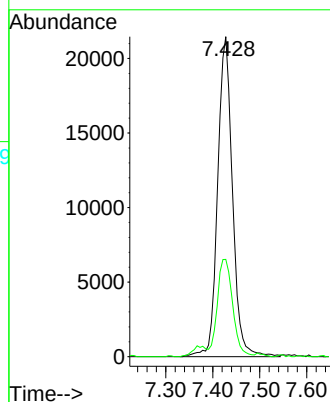
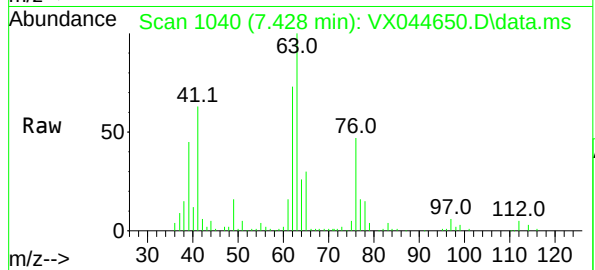
65 30.4 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#46

Dibromomethane

Concen: 18.991 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

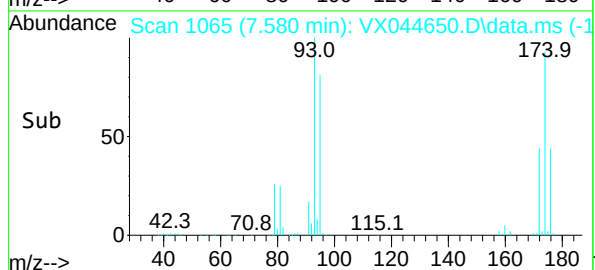
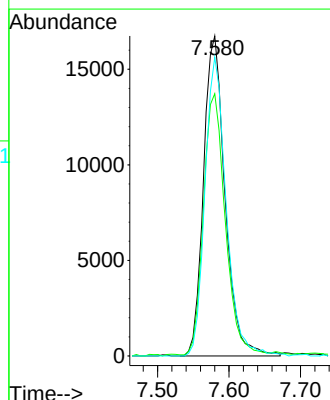
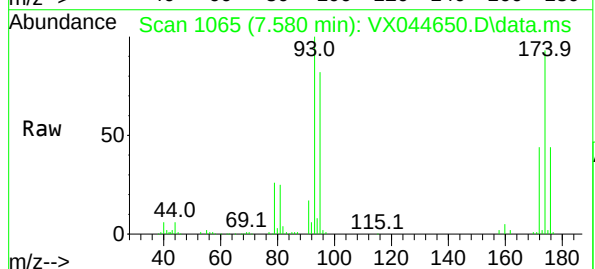
Tgt Ion: 93 Resp: 35056

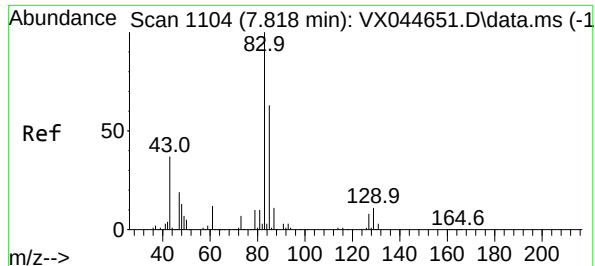
Ion Ratio Lower Upper

93 100

95 82.3 66.4 99.6

174 92.1 72.0 108.0





#47

Bromodichloromethane

Concen: 19.241 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 83 Resp: 7283

Ion Ratio Lower Upper

83 100

85 67.6 50.1 75.1

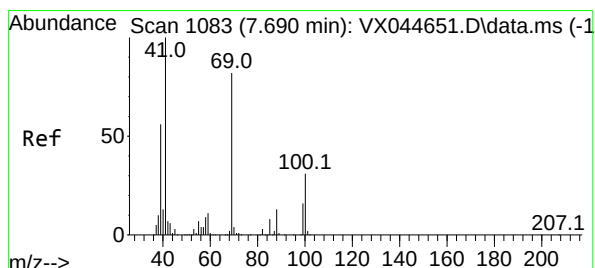
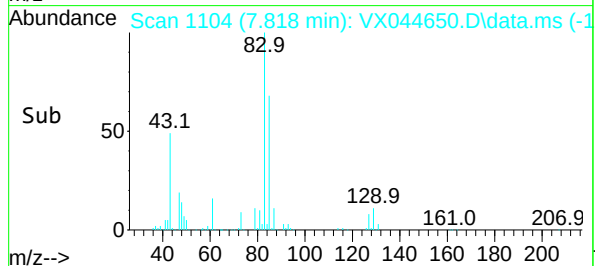
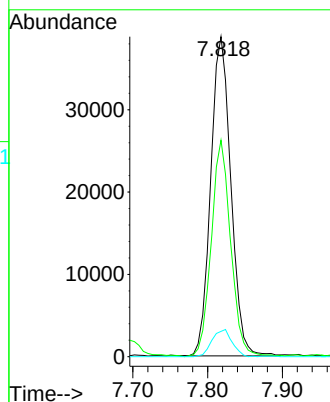
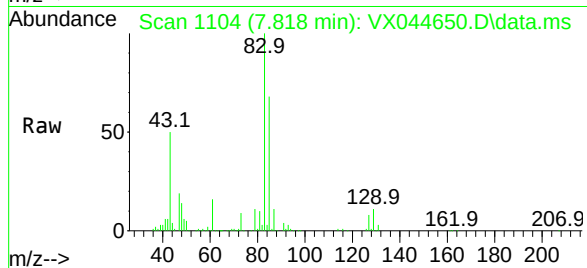
127 7.9 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#48

Methyl methacrylate

Concen: 20.310 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

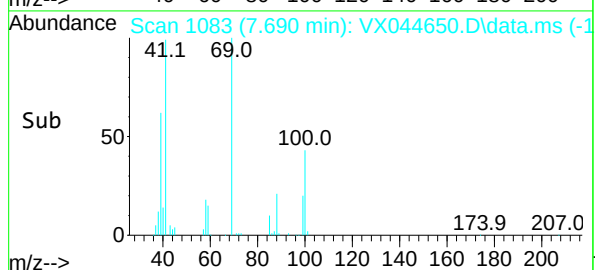
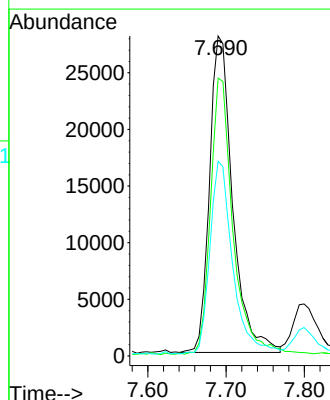
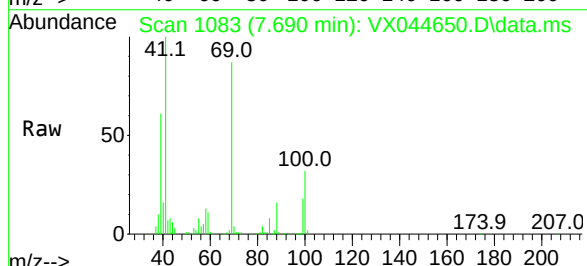
Tgt Ion: 41 Resp: 57413

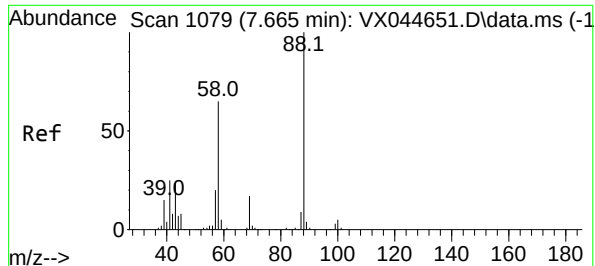
Ion Ratio Lower Upper

41 100

69 84.9 66.8 100.2

39 60.0 47.4 71.0





#49

1,4-Dioxane

Concen: 397.311 ug/l

RT: 7.665 min Scan# 1079

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 88 Resp: 2343

Ion Ratio Lower Upper

88 100

43 32.8 27.0 40.4

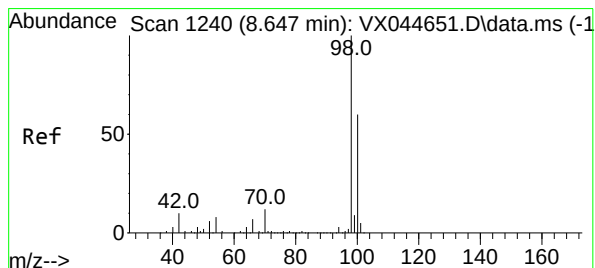
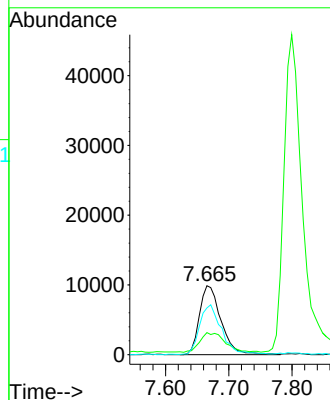
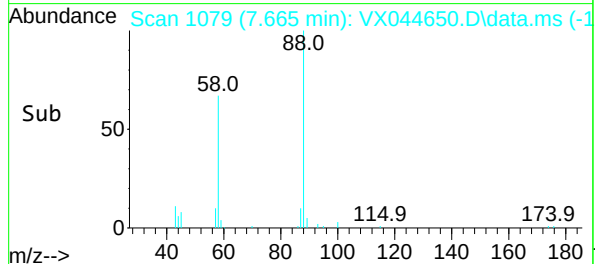
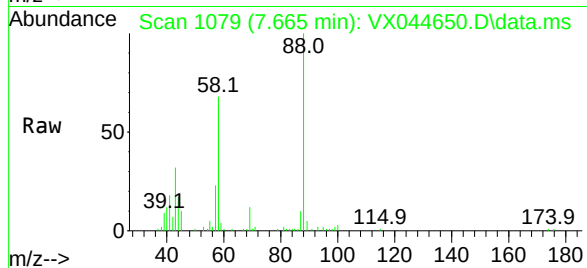
58 72.7 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#50

Toluene-d8

Concen: 18.987 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044650.D

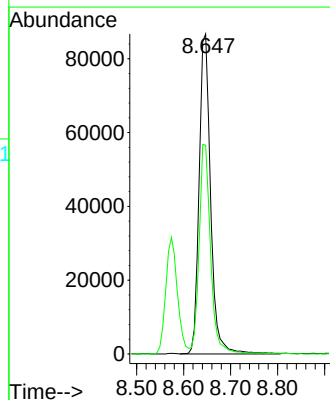
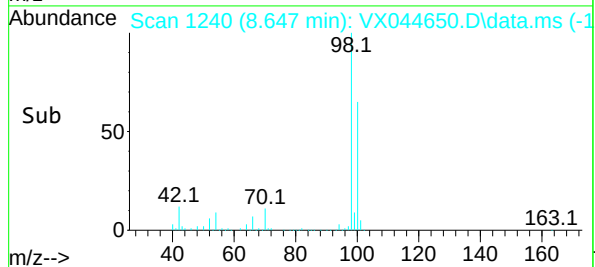
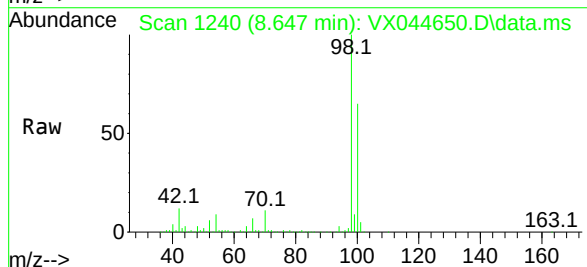
Acq: 15 Jan 2025 11:40

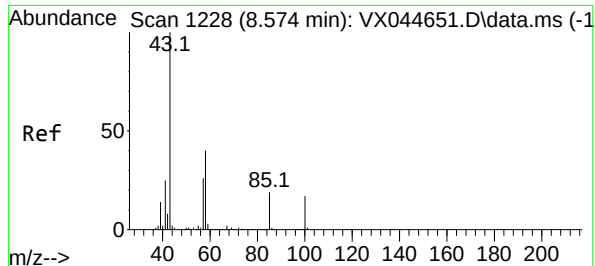
Tgt Ion: 98 Resp: 147843

Ion Ratio Lower Upper

98 100

100 65.5 53.2 79.8





#51

4-Methyl-2-Pentanone

Concen: 100.520 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 338304

Ion Ratio Lower Upper

43 100

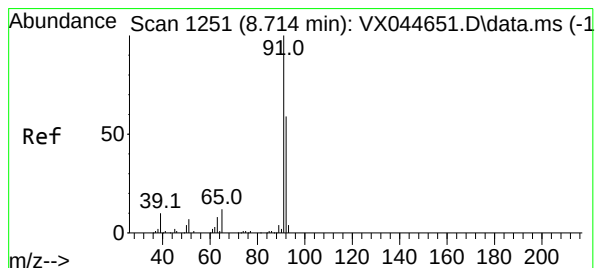
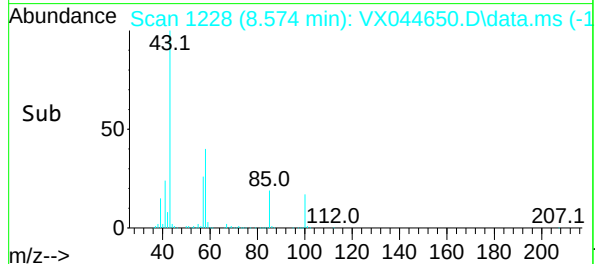
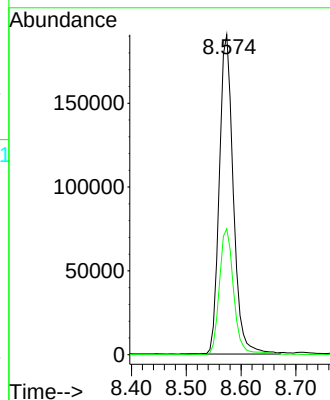
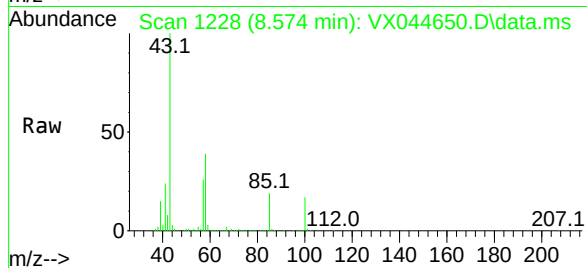
58 40.4 31.9 47.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#52

Toluene

Concen: 20.253 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX044650.D

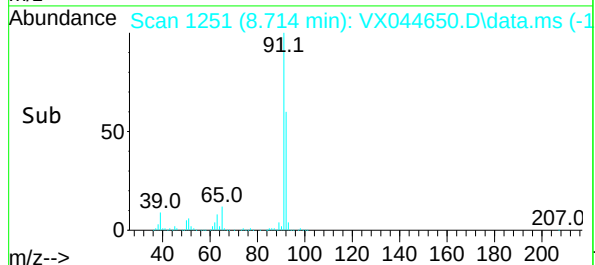
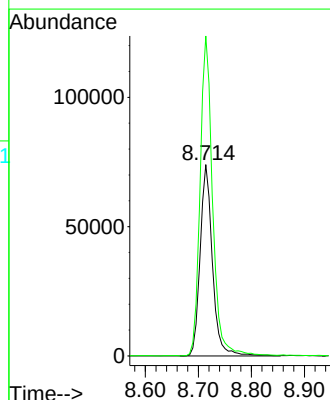
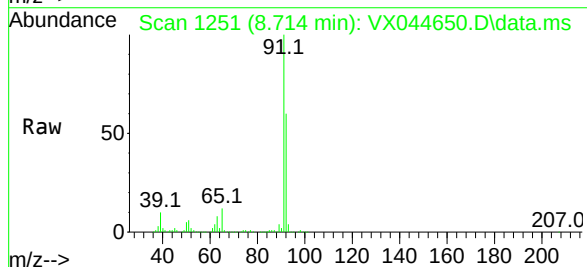
Acq: 15 Jan 2025 11:40

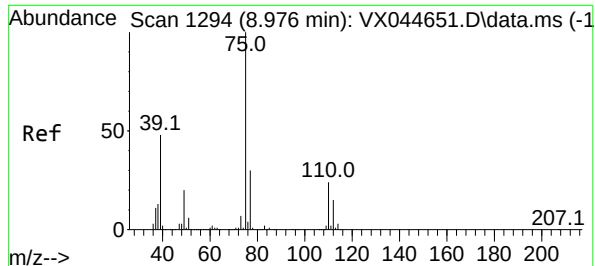
Tgt Ion: 92 Resp: 119410

Ion Ratio Lower Upper

92 100

91 170.2 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 20.266 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 79260

Ion Ratio Lower Upper

75 100

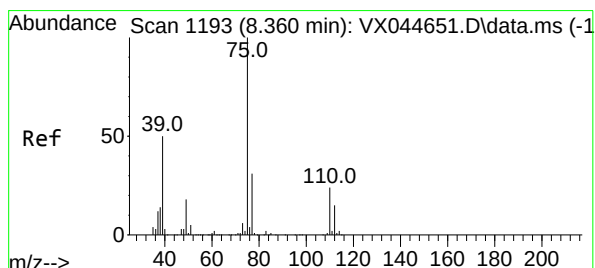
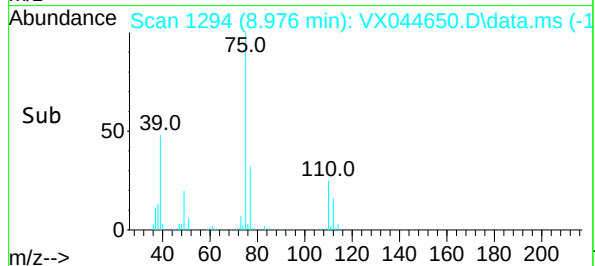
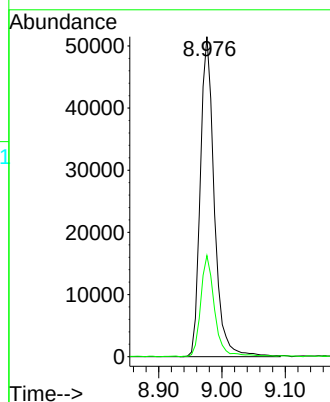
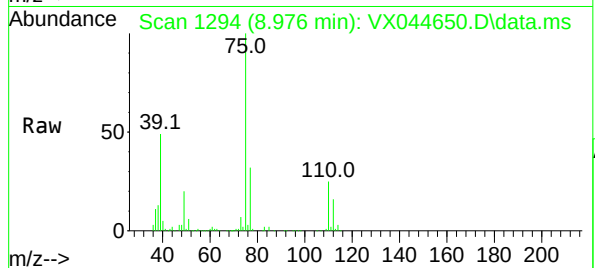
77 31.6 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#54

cis-1,3-Dichloropropene

Concen: 20.008 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

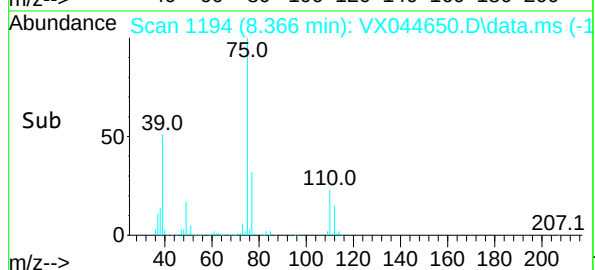
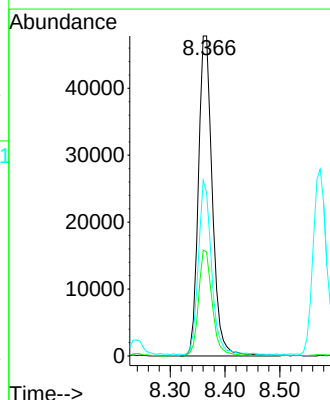
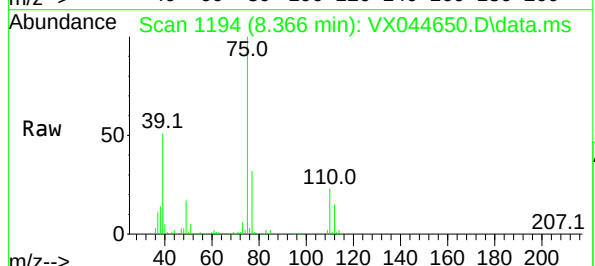
Tgt Ion: 75 Resp: 84851

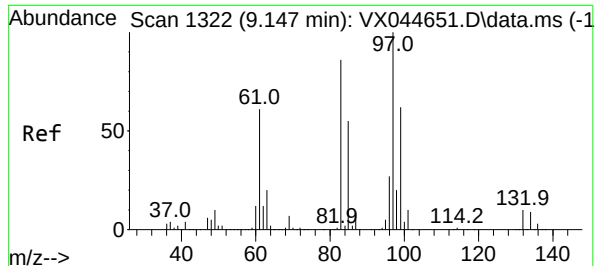
Ion Ratio Lower Upper

75 100

77 32.4 25.1 37.7

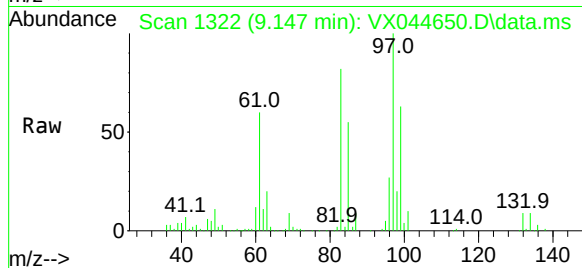
39 50.6 40.3 60.5





#55
1,1,2-Trichloroethane
Concen: 20.093 ug/l
RT: 9.147 min Scan# 1322
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

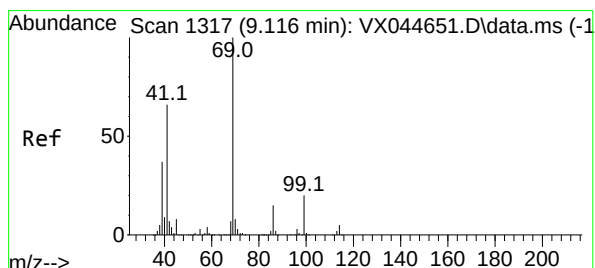
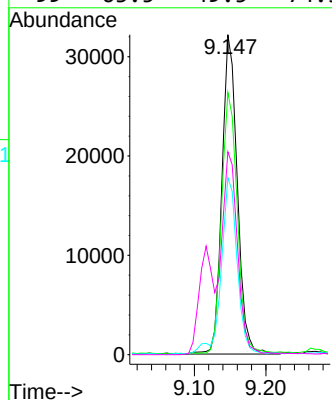
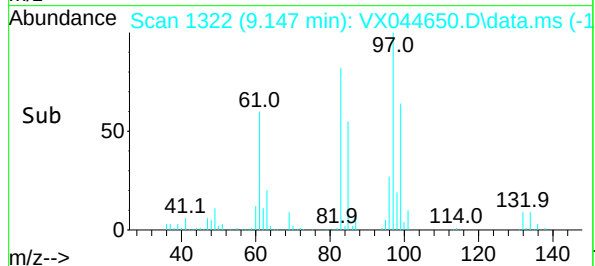
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 97 Resp: 47930
Ion Ratio Lower Upper
97 100
83 81.9 68.8 103.2
85 55.0 43.7 65.5
99 63.5 49.5 74.3

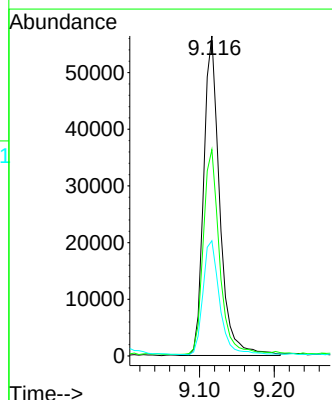
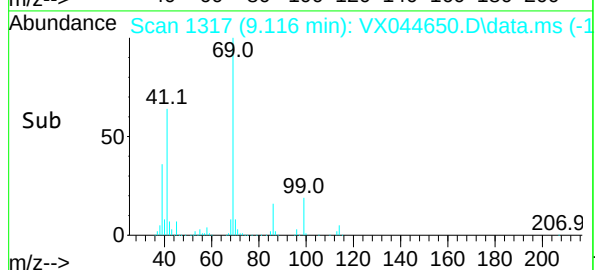
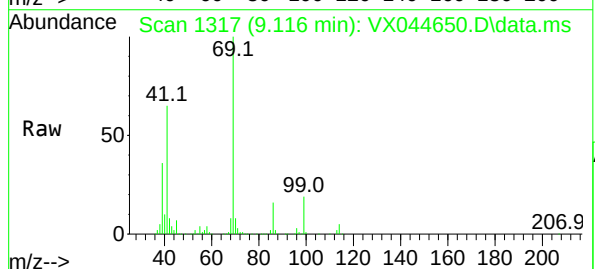
Manual Integrations
APPROVED

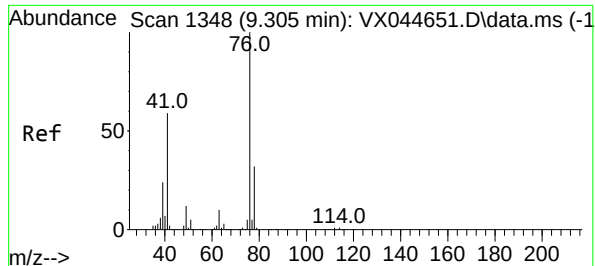
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#56
Ethyl methacrylate
Concen: 20.496 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 69 Resp: 84067
Ion Ratio Lower Upper
69 100
41 65.2 53.2 79.8
39 36.9 30.2 45.2





#57

1,3-Dichloropropane

Concen: 20.117 ug/l

RT: 9.305 min Scan# 11718

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 81718

Ion Ratio Lower Upper

76 100

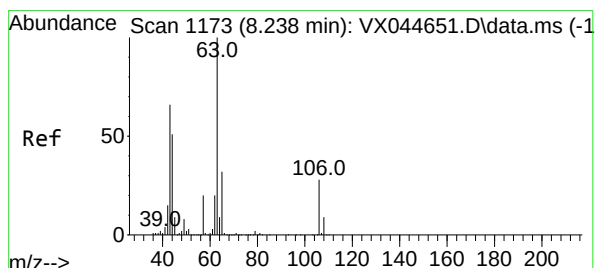
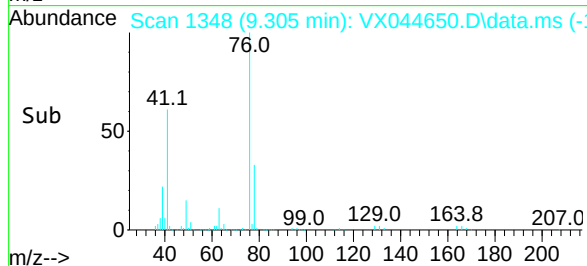
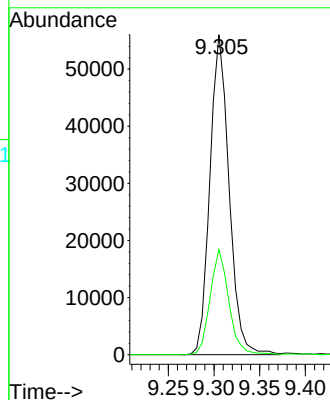
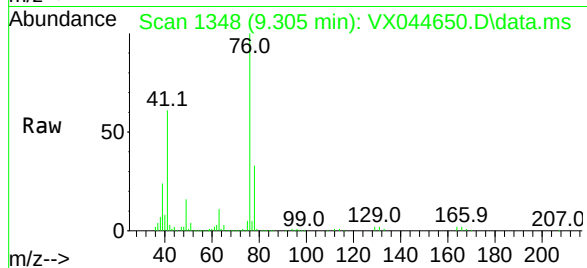
78 31.9 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 87.899 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044650.D

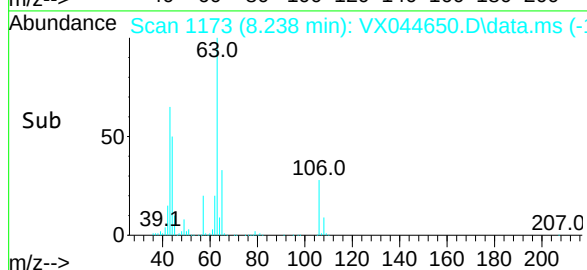
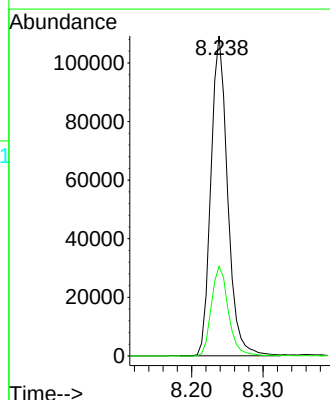
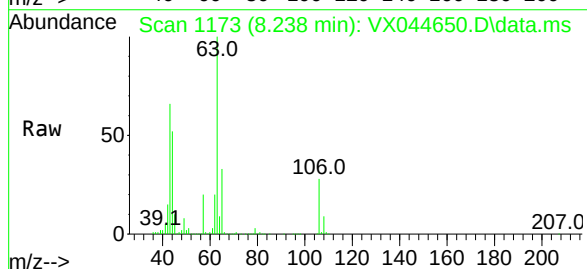
Acq: 15 Jan 2025 11:40

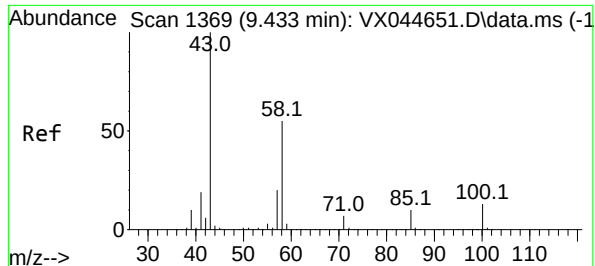
Tgt Ion: 63 Resp: 176999

Ion Ratio Lower Upper

63 100

106 28.4 23.0 34.6





#59

2-Hexanone

Concen: 101.288 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 250792

Ion Ratio Lower Upper

43 100

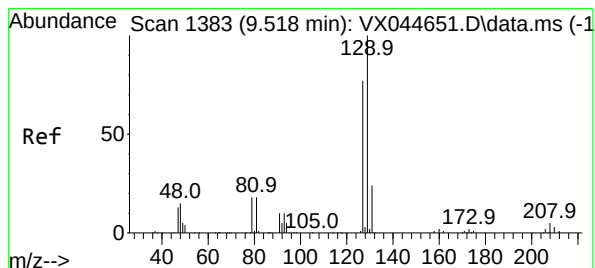
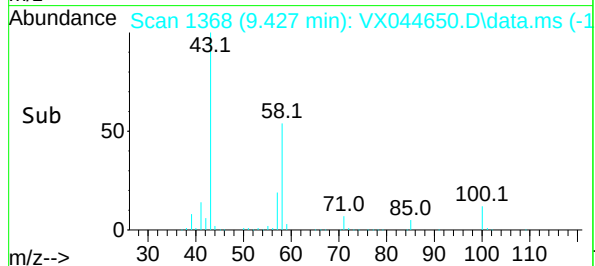
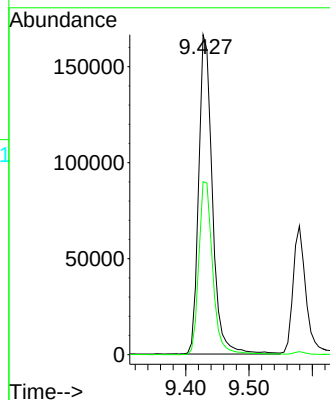
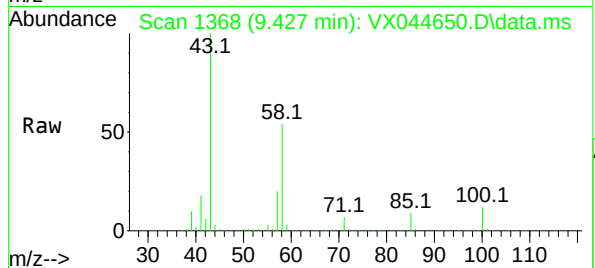
58 55.0 27.8 83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#60

Dibromochloromethane

Concen: 20.015 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044650.D

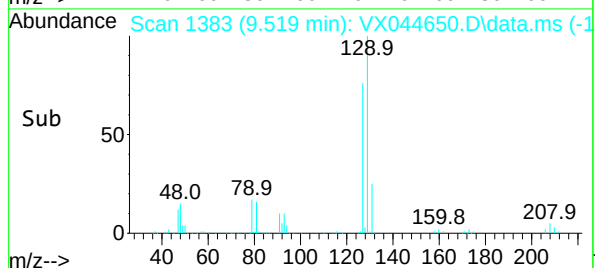
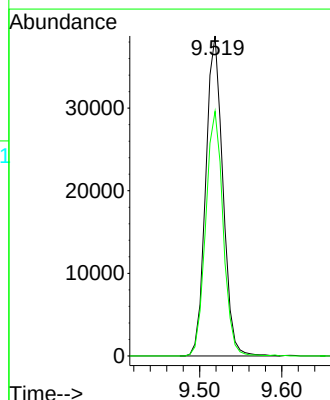
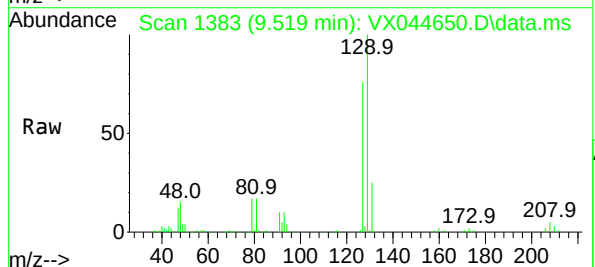
Acq: 15 Jan 2025 11:40

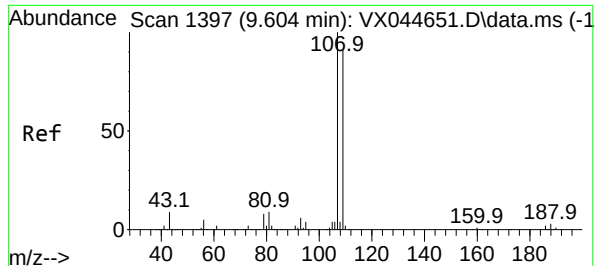
Tgt Ion:129 Resp: 56038

Ion Ratio Lower Upper

129 100

127 77.5 38.5 115.5





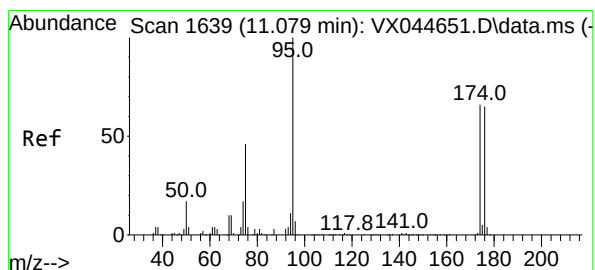
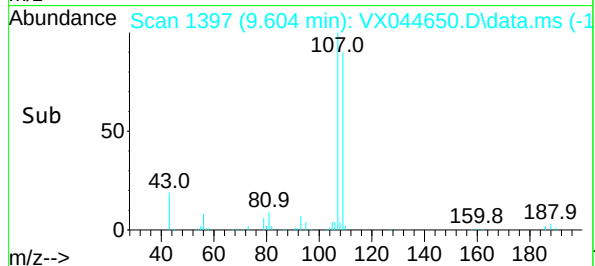
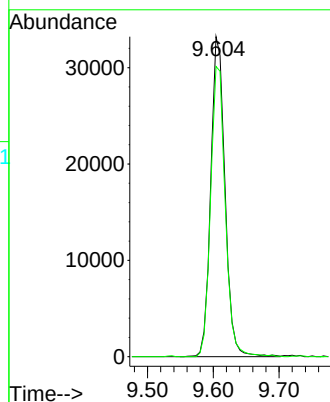
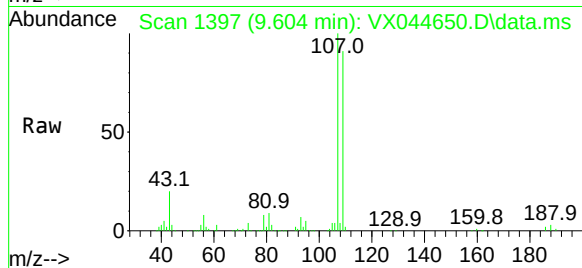
#61
1,2-Dibromoethane
Concen: 20.025 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion:107 Resp: 50060
Ion Ratio Lower Upper
107 100
109 93.4 75.3 112.9

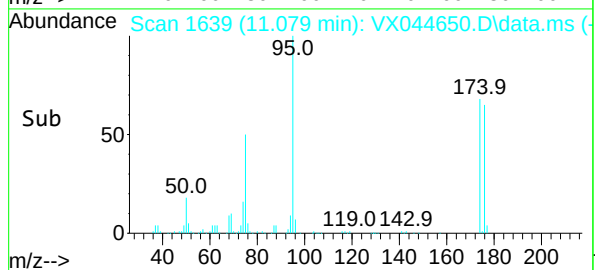
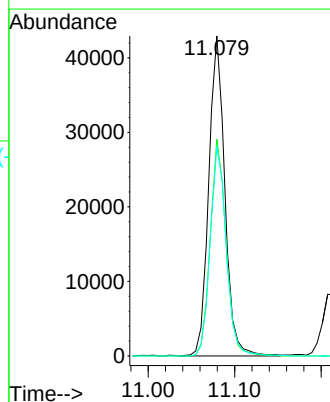
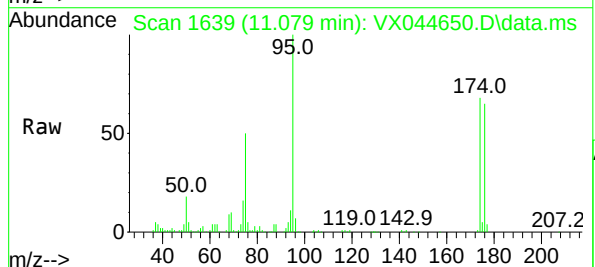
Manual Integrations
APPROVED

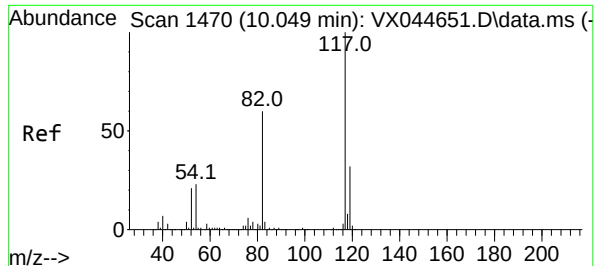
Reviewed By :John Carbone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#62
4-Bromofluorobenzene
Concen: 19.087 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

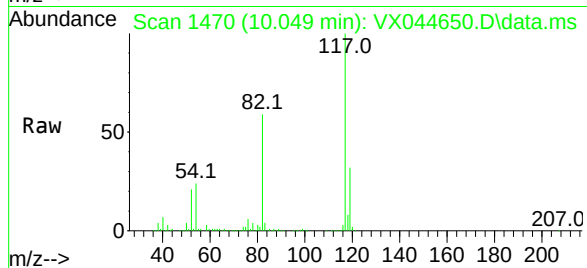
Tgt Ion: 95 Resp: 55407
Ion Ratio Lower Upper
95 100
174 66.7 0.0 133.0
176 65.3 0.0 129.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

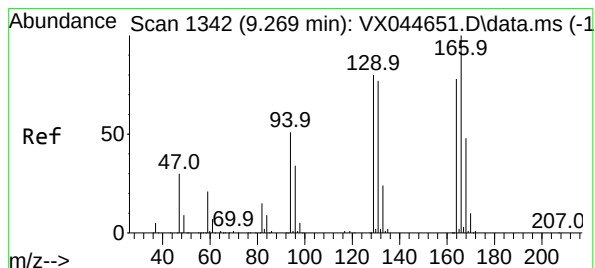
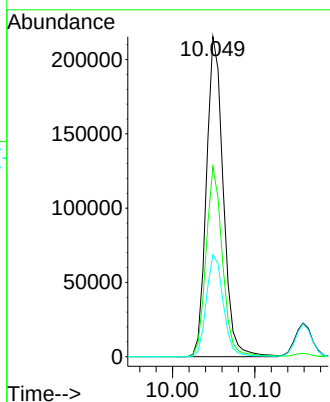
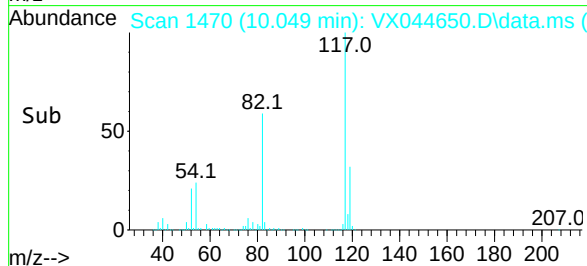
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:117 Resp: 30542
Ion Ratio Lower Upper
117 100
82 59.4 47.6 71.4
119 31.9 25.4 38.2

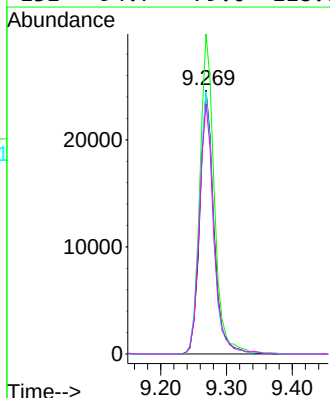
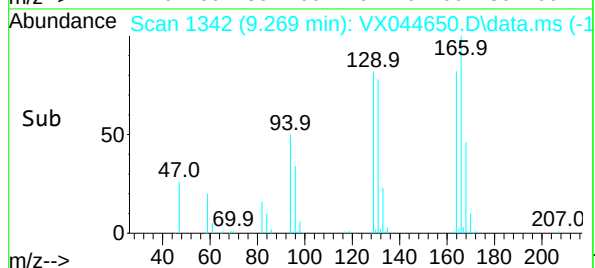
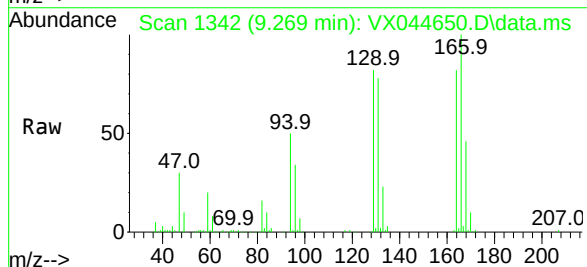
Manual Integrations
APPROVED

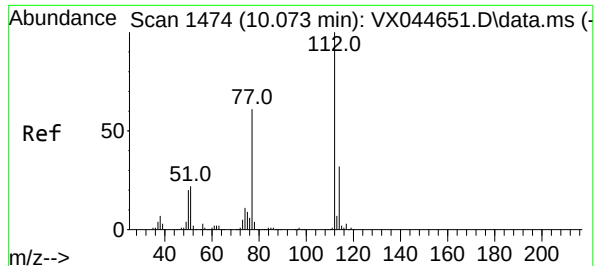
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#64
Tetrachloroethene
Concen: 19.066 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

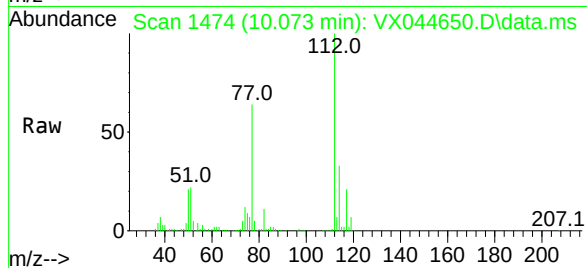
Tgt Ion:164 Resp: 36566
Ion Ratio Lower Upper
164 100
166 121.3 102.0 153.0
129 99.4 81.1 121.7
131 94.7 79.0 118.6





#65
Chlorobenzene
Concen: 19.506 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

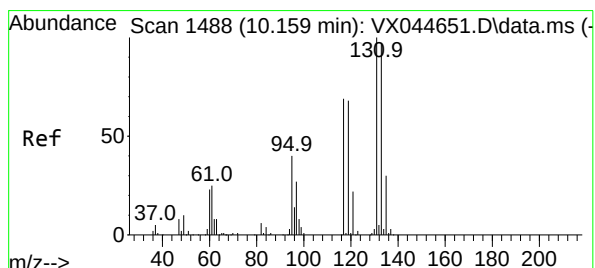
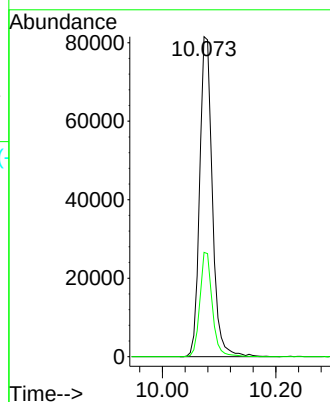
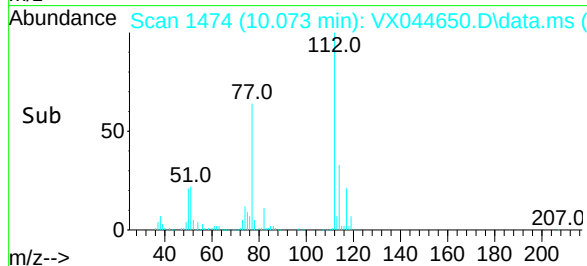
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:112 Resp: 126540
Ion Ratio Lower Upper
112 100
114 32.6 25.3 37.9

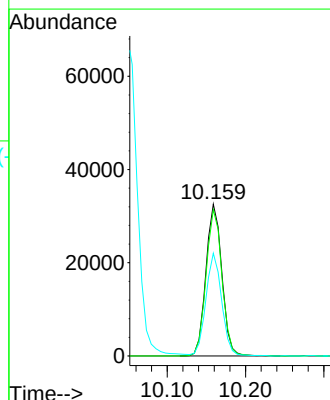
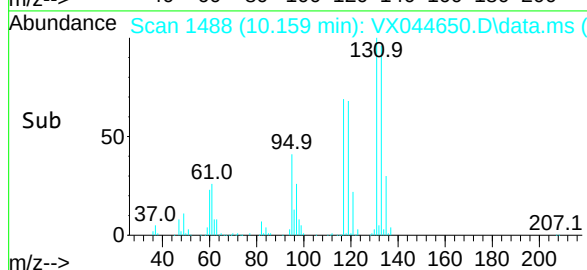
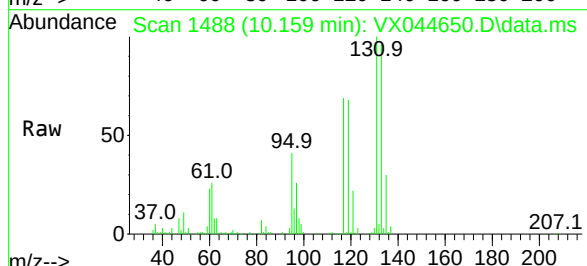
Manual Integrations
APPROVED

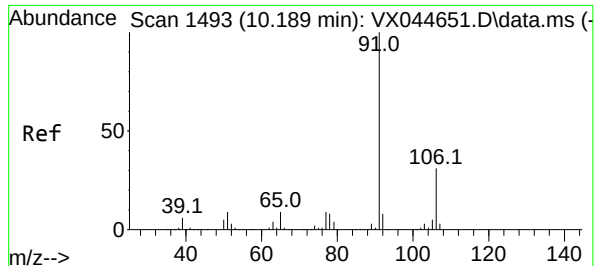
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.493 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

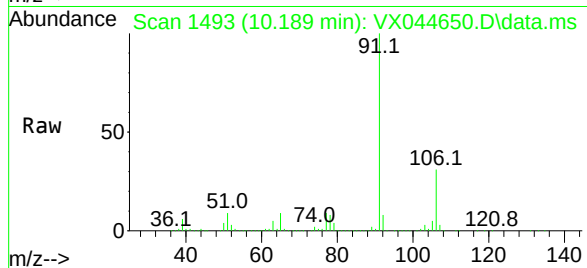
Tgt Ion:131 Resp: 45959
Ion Ratio Lower Upper
131 100
133 96.3 47.8 143.3
119 67.1 33.4 100.2





#67
Ethyl Benzene
Concen: 19.723 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

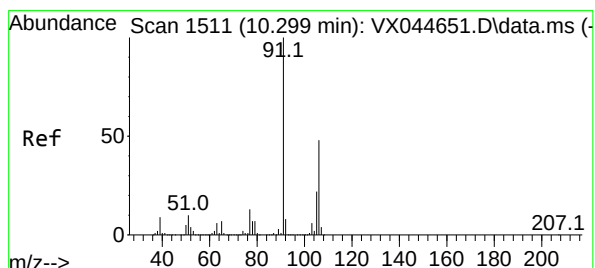
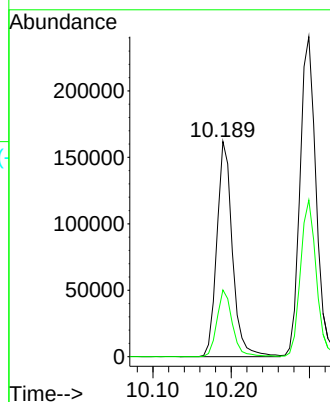
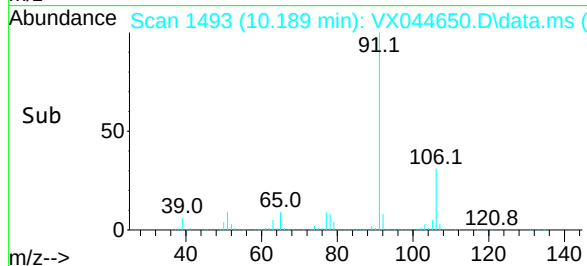
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 91 Resp: 223249
Ion Ratio Lower Upper
91 100
106 31.0 25.0 37.6

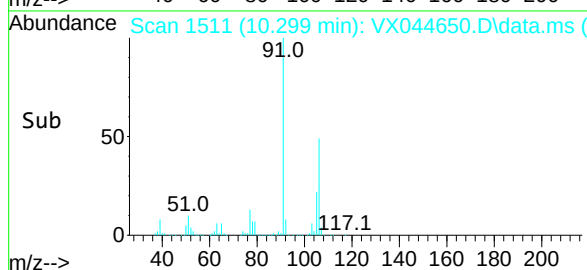
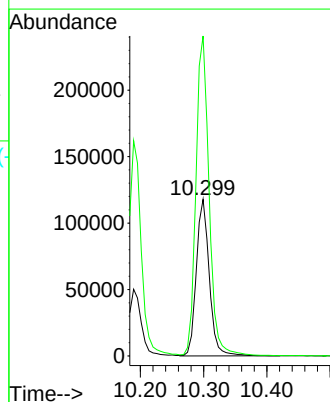
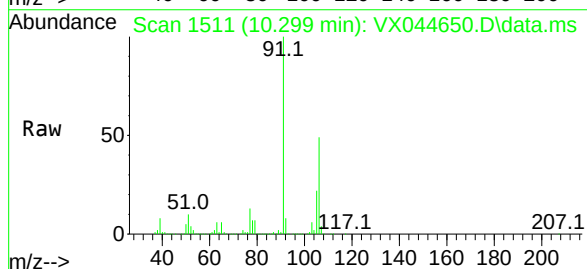
Manual Integrations
APPROVED

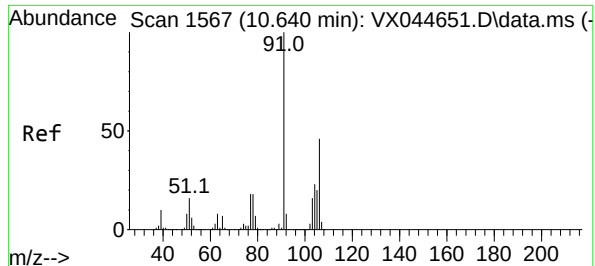
Reviewed By :John Carbone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#68
m/p-Xylenes
Concen: 39.921 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:106 Resp: 167689
Ion Ratio Lower Upper
106 100
91 207.5 166.4 249.6





#69

o-Xylene

Concen: 19.840 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 84280

Ion Ratio Lower Upper

106 100

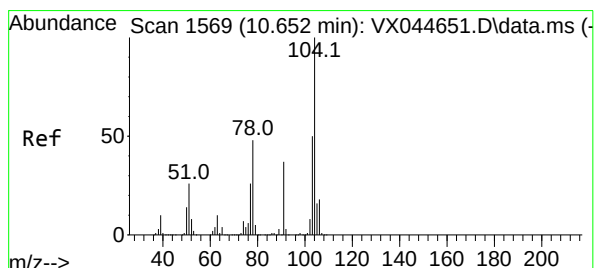
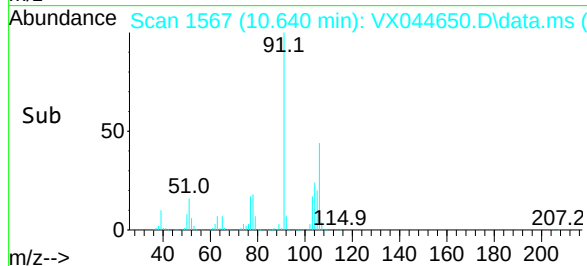
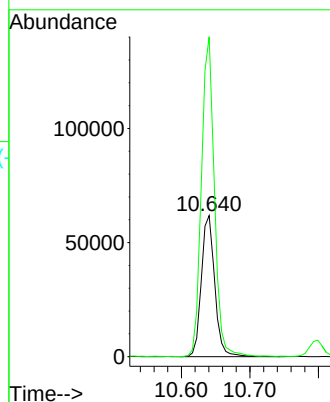
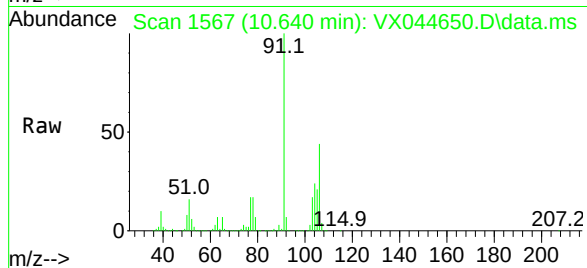
91 219.4 108.7 326.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#70

Styrene

Concen: 20.189 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

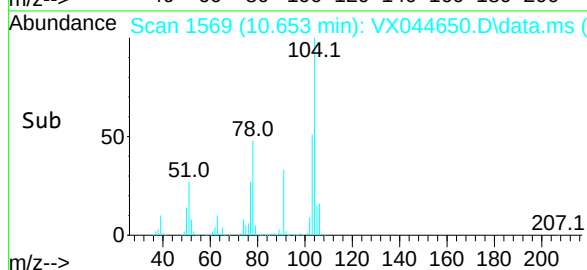
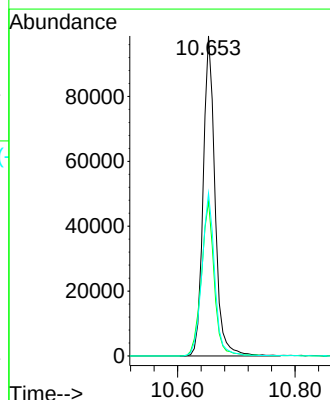
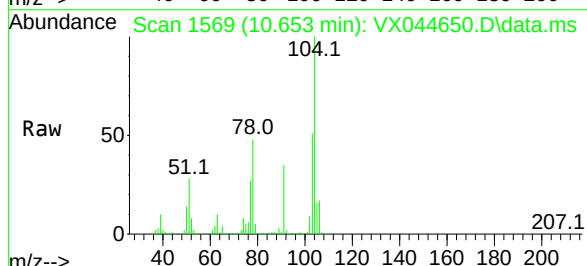
Tgt Ion:104 Resp: 138465

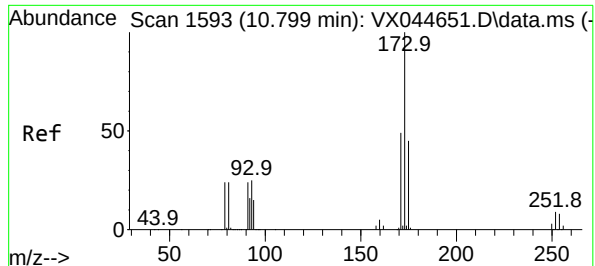
Ion Ratio Lower Upper

104 100

78 52.7 43.0 64.6

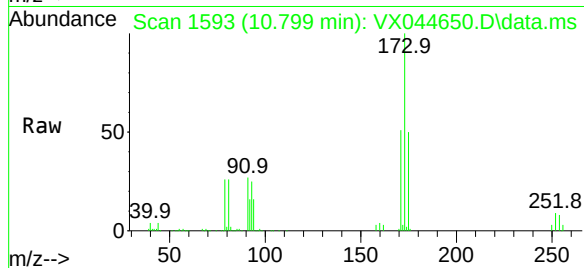
103 55.0 43.4 65.2





#71
Bromoform
Concen: 19.198 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

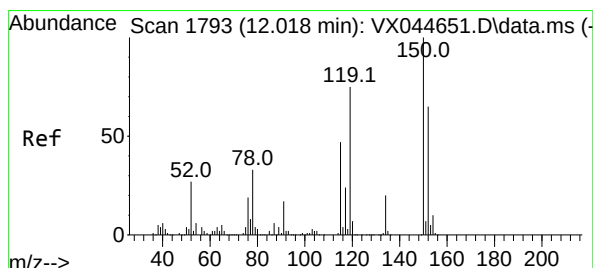
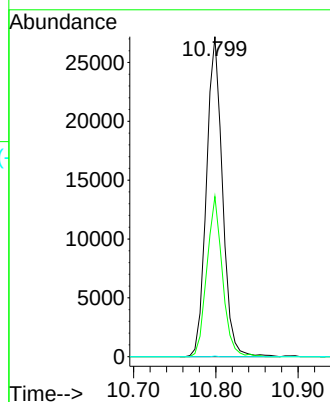
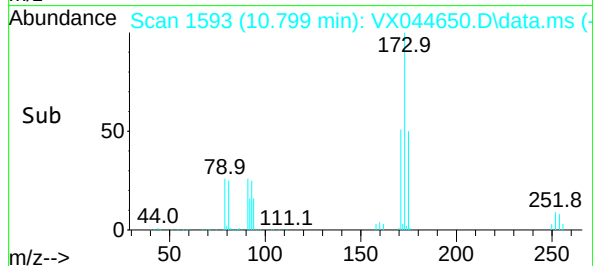
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:173 Resp: 36839
Ion Ratio Lower Upper
173 100
175 48.8 23.6 70.8
254 0.1 0.1 0.1

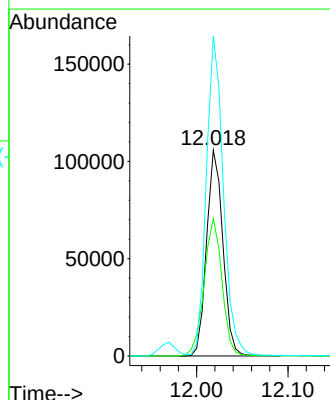
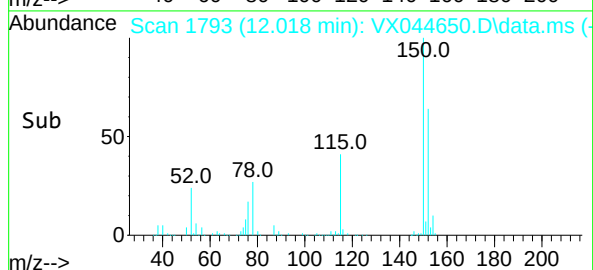
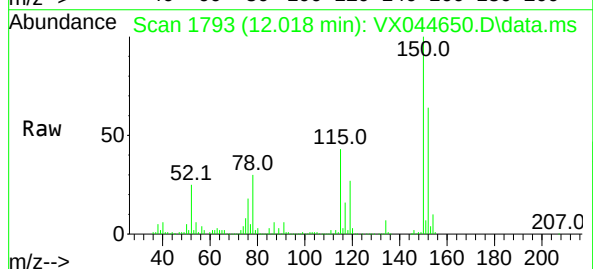
Manual Integrations
APPROVED

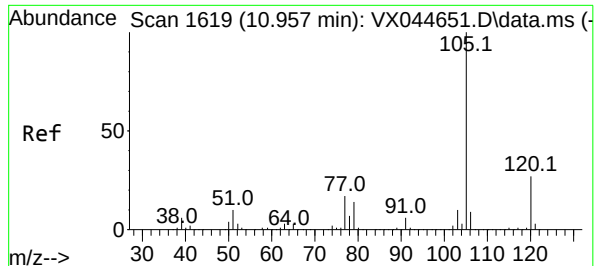
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:152 Resp: 130861
Ion Ratio Lower Upper
152 100
115 73.2 43.8 131.4
150 161.8 0.0 347.8





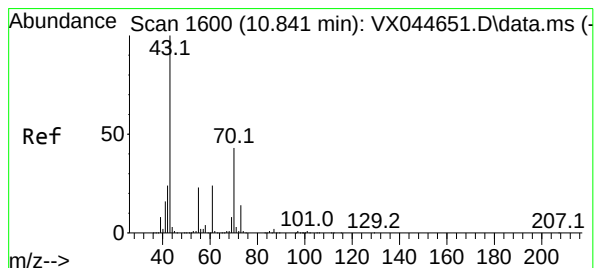
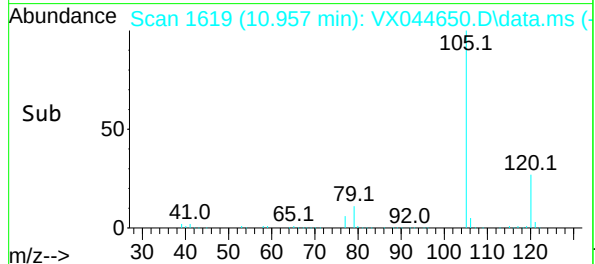
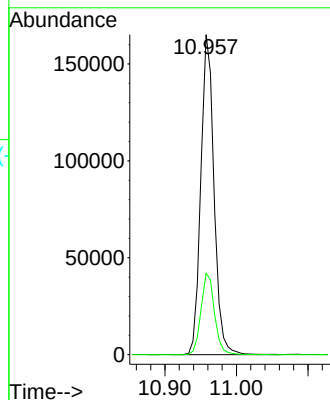
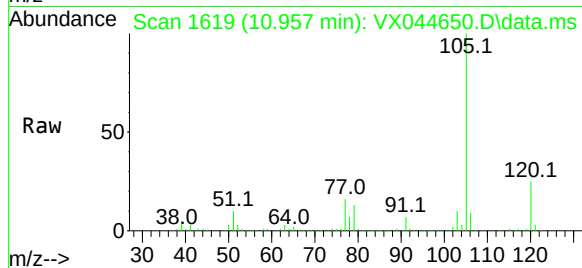
#73
Isopropylbenzene
Concen: 19.797 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 21163
Ion Ratio Lower Upper
105 100
120 26.1 13.2 39.6

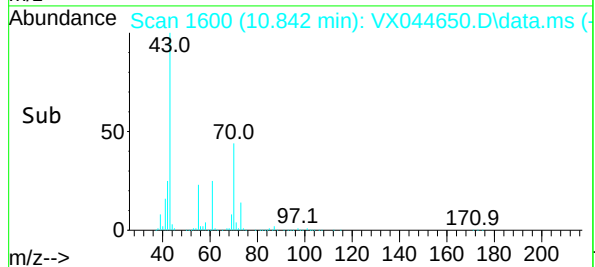
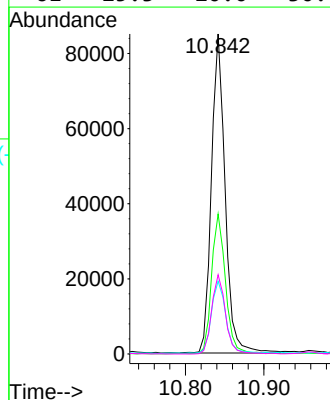
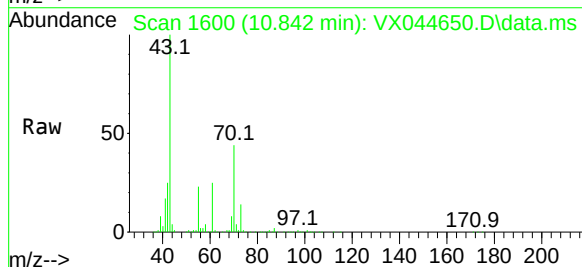
Manual Integrations
APPROVED

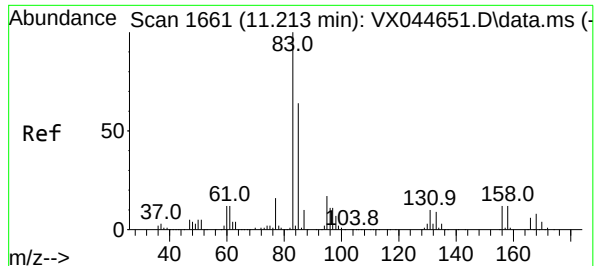
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#74
N-ethyl acetate
Concen: 19.555 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 103040
Ion Ratio Lower Upper
43 100
70 44.6 35.2 52.8
55 23.6 19.0 28.4
61 25.3 20.0 30.0





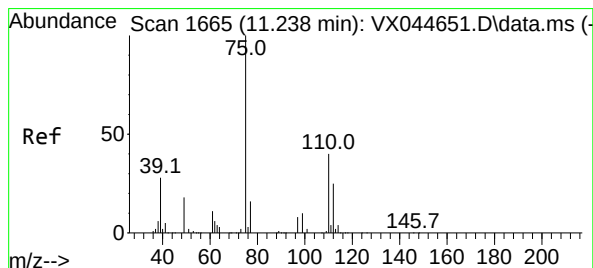
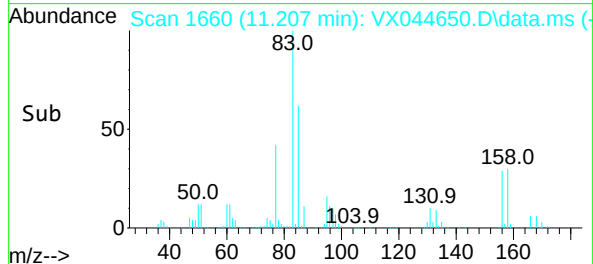
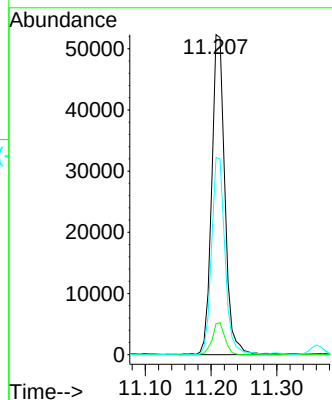
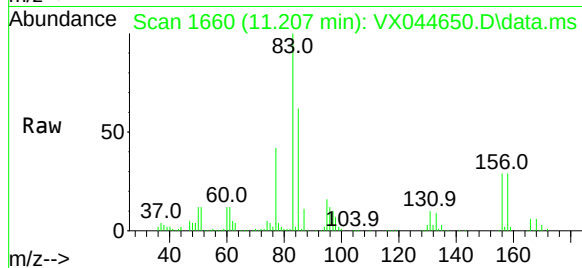
#75
1,1,2,2-Tetrachloroethane
Concen: 19.823 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion: 83 Resp: 73190
Ion Ratio Lower Upper
83 100
131 9.6 5.0 14.9
85 62.5 32.0 96.2

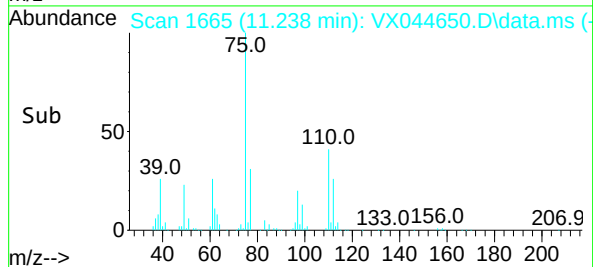
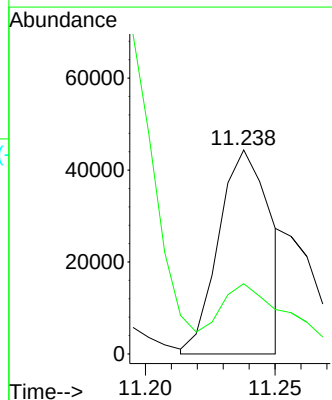
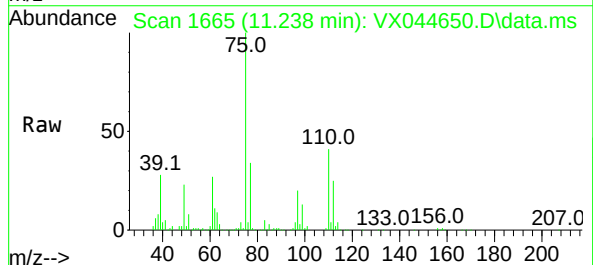
Manual Integrations
APPROVED

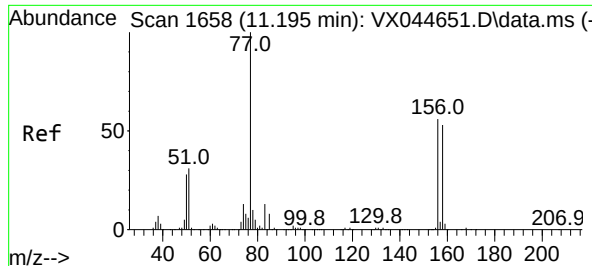
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#76
1,2,3-Trichloropropane
Concen: 19.870 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

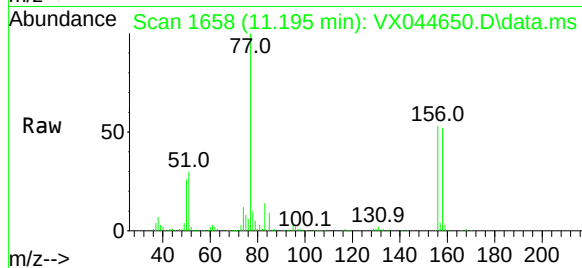
Tgt Ion: 75 Resp: 61409
Ion Ratio Lower Upper
75 100
77 46.7 23.4 70.2





#77
Bromobenzene
Concen: 19.432 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

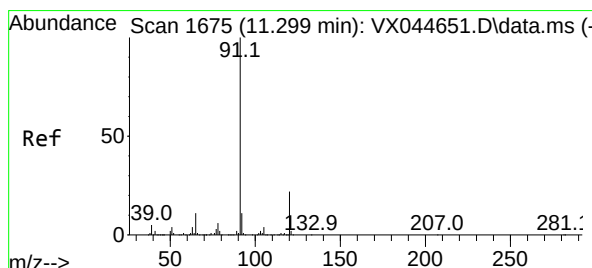
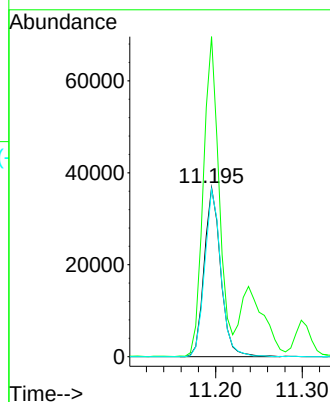
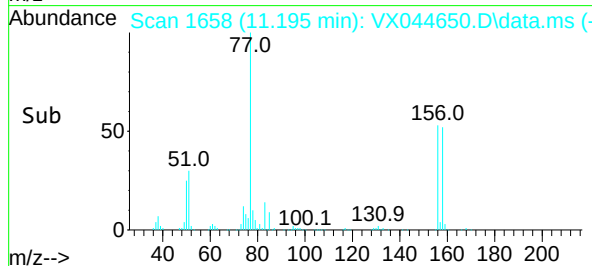
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 156 Resp: 4855
Ion Ratio Lower Upper
156 100
77 181.1 90.3 271.0
158 97.5 48.4 145.3

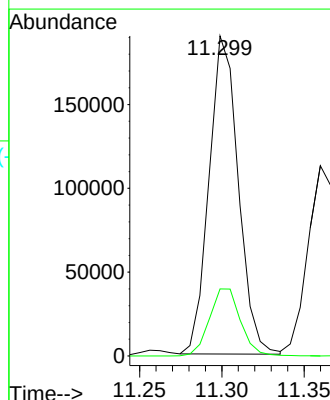
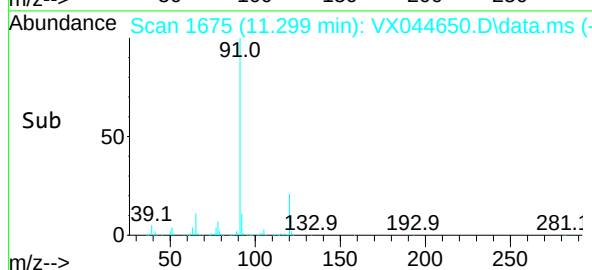
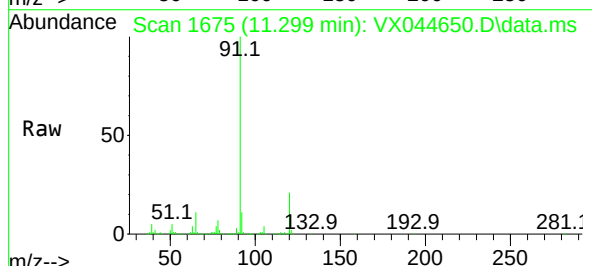
Manual Integrations
APPROVED

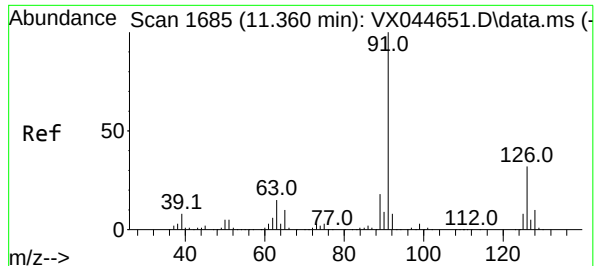
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#78
n-propylbenzene
Concen: 19.896 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 91 Resp: 234567
Ion Ratio Lower Upper
91 100
120 22.5 11.4 34.1





#79

2-Chlorotoluene

Concen: 19.655 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 149688

Ion Ratio Lower Upper

91 100

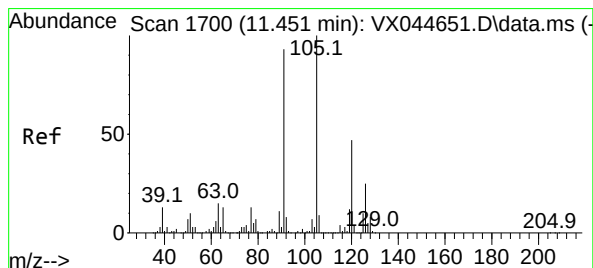
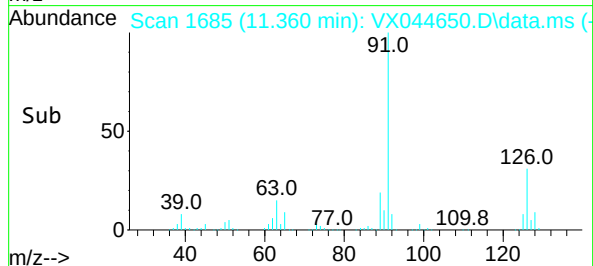
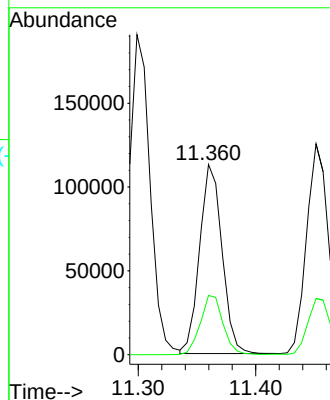
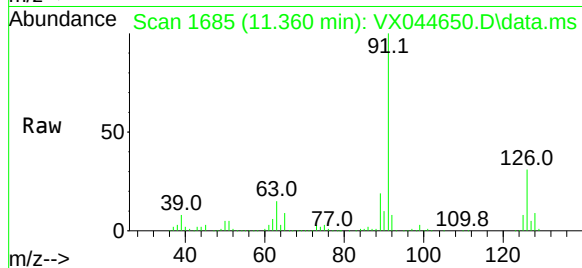
126 31.8 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 19.919 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044650.D

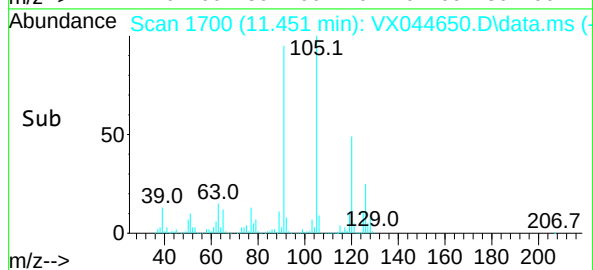
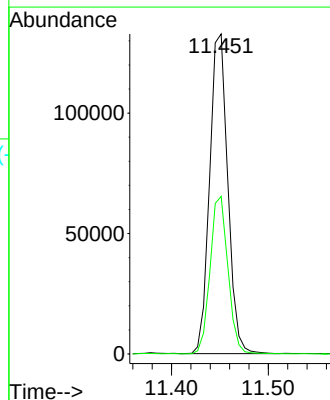
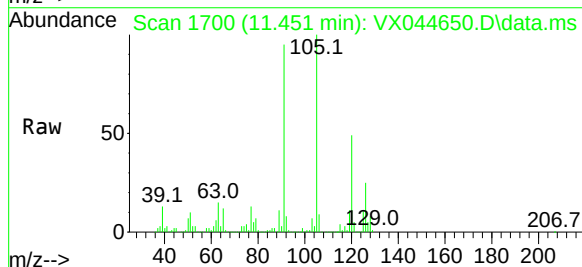
Acq: 15 Jan 2025 11:40

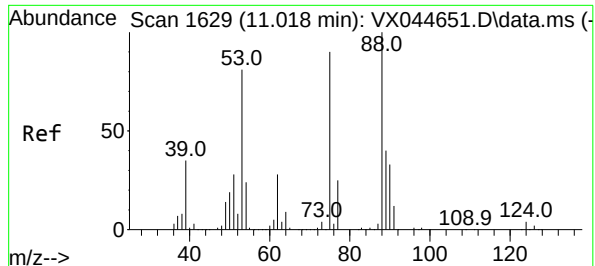
Tgt Ion:105 Resp: 173348

Ion Ratio Lower Upper

105 100

120 48.5 23.7 71.1





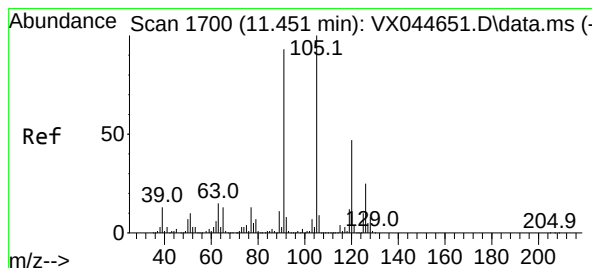
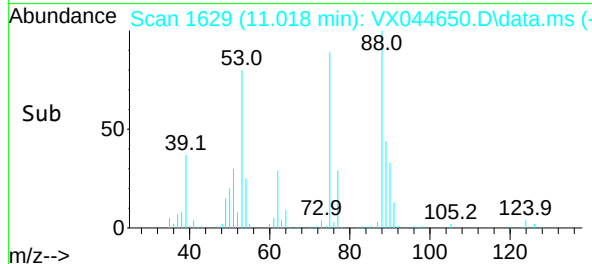
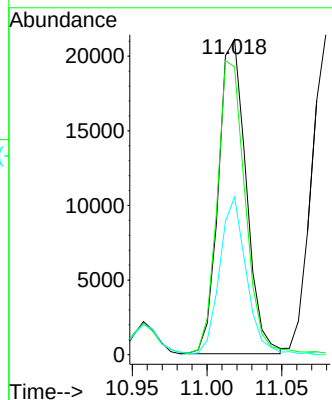
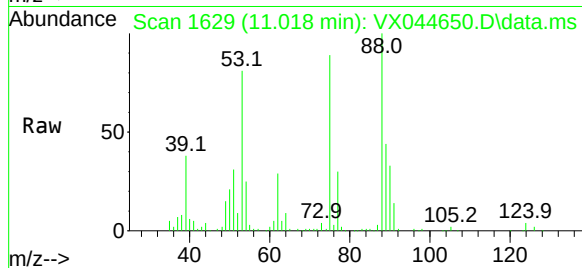
#81
trans-1,4-Dichloro-2-butene
Concen: 19.486 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion: 75 Resp: 2706
Ion Ratio Lower Upper
75 100
53 93.5 74.3 111.5
89 48.8 37.4 56.0

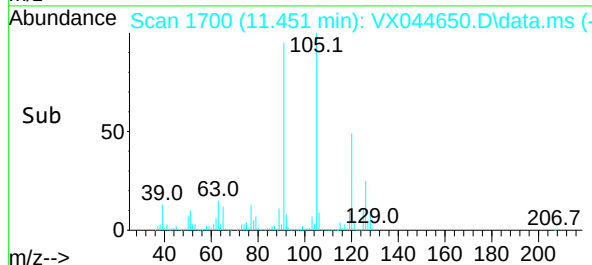
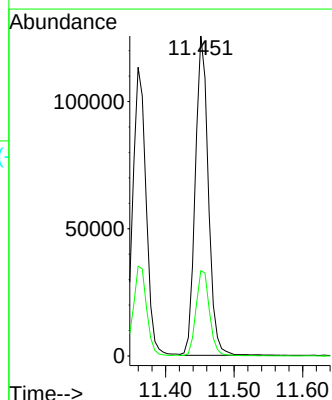
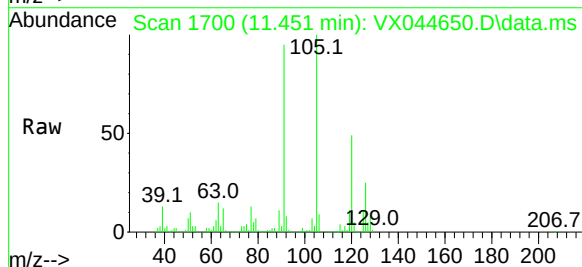
Manual Integrations
APPROVED

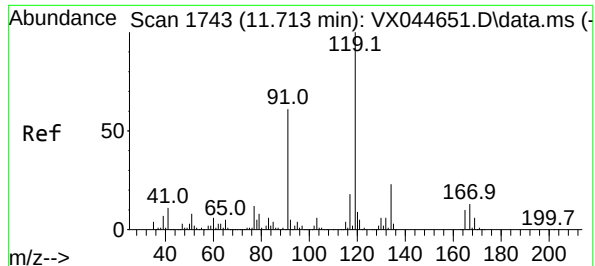
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#82
4-Chlorotoluene
Concen: 19.968 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

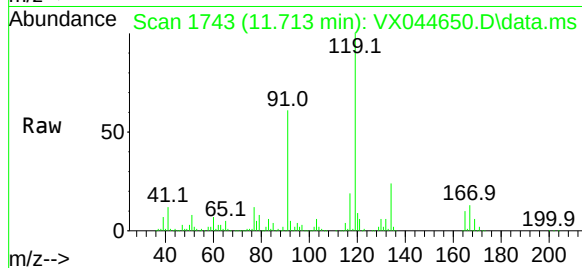
Tgt Ion: 91 Resp: 166586
Ion Ratio Lower Upper
91 100
126 27.8 13.9 41.7





#83
tert-Butylbenzene
Concen: 19.617 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

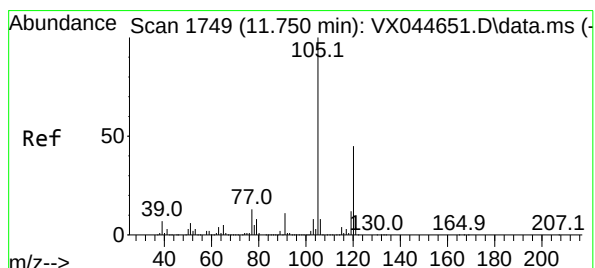
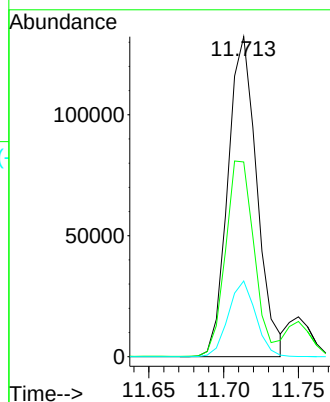
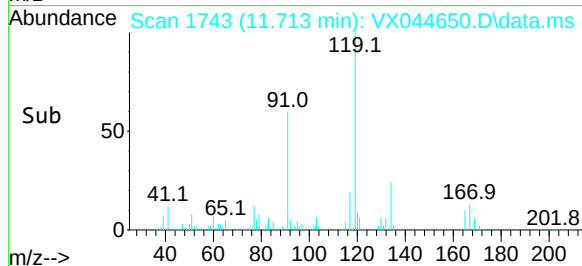
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



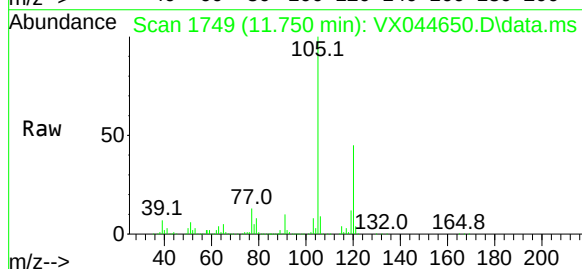
Tgt Ion:119 Resp: 178504
Ion Ratio Lower Upper
119 100
91 59.8 30.0 90.0
134 22.3 11.2 33.5

Manual Integrations
APPROVED

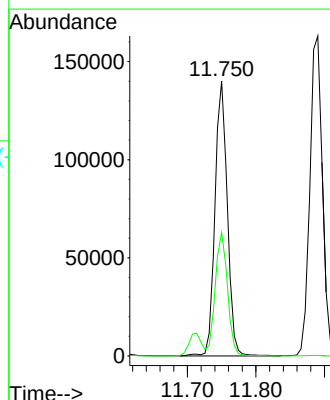
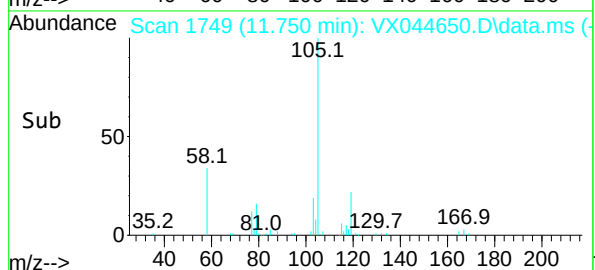
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

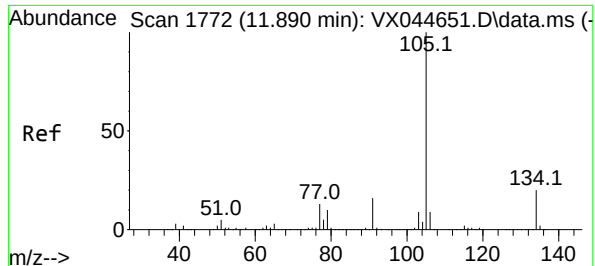


#84
1,2,4-Trimethylbenzene
Concen: 19.807 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40



Tgt Ion:105 Resp: 175164
Ion Ratio Lower Upper
105 100
120 44.9 22.2 66.6





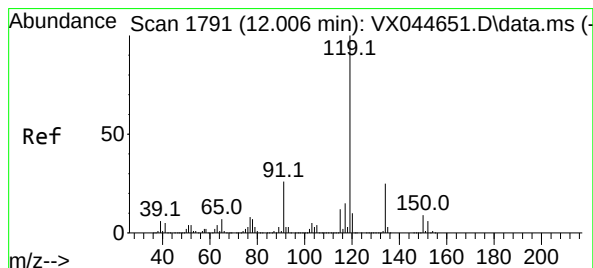
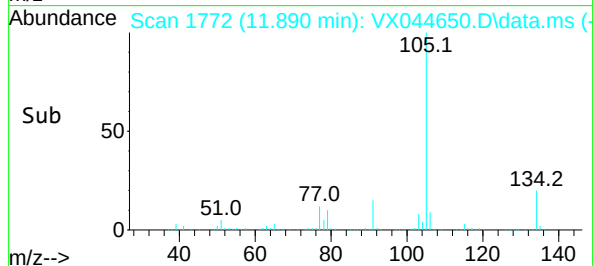
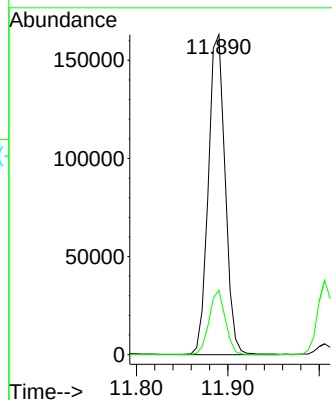
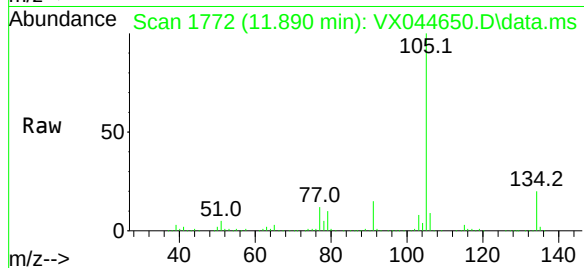
#85
sec-Butylbenzene
Concen: 19.649 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:105 Resp: 208180
Ion Ratio Lower Upper
105 100
134 19.5 9.8 29.5

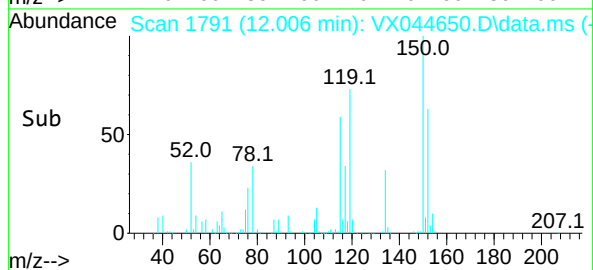
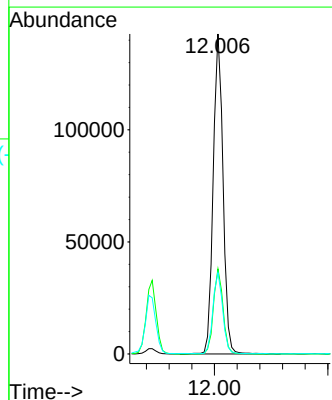
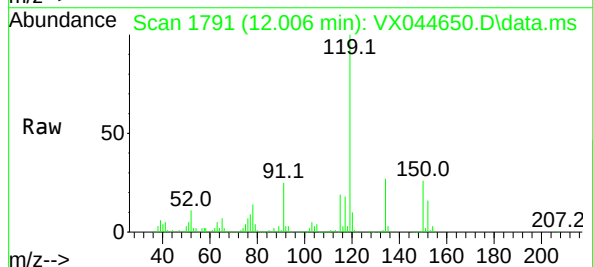
Manual Integrations
APPROVED

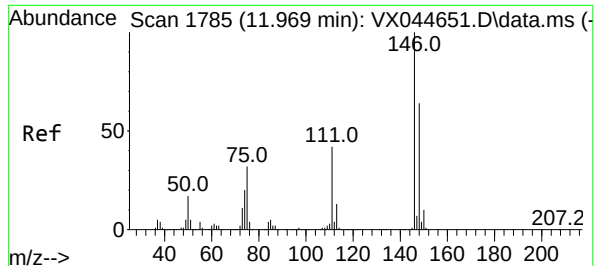
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#86
p-Isopropyltoluene
Concen: 19.697 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:119 Resp: 171507
Ion Ratio Lower Upper
119 100
134 26.0 12.8 38.4
91 25.0 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 19.560 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

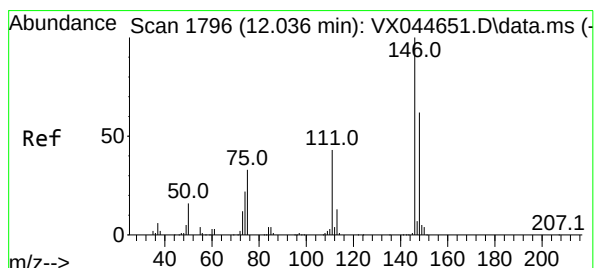
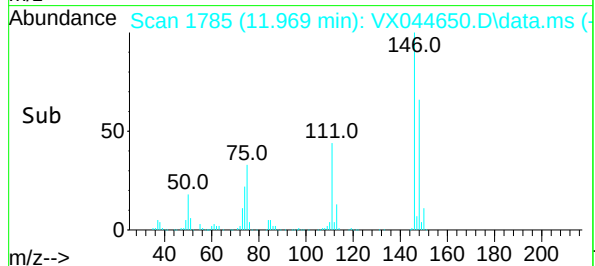
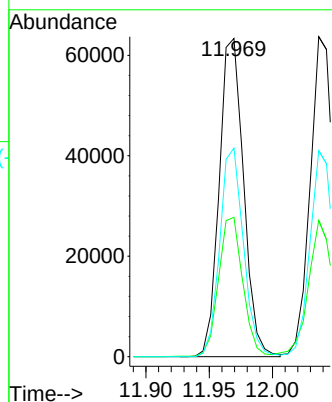
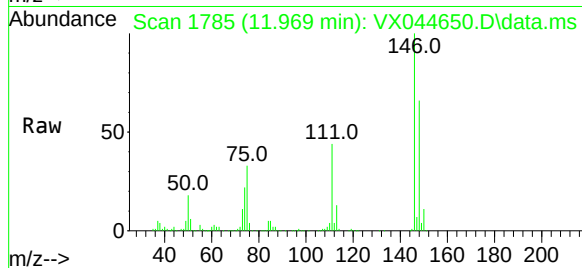
Tgt Ion:146	Resp:	84759
Ion Ratio	Lower	Upper
146	100	
111	43.7	21.9 65.7
148	63.9	31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#88

1,4-Dichlorobenzene

Concen: 19.536 ug/l

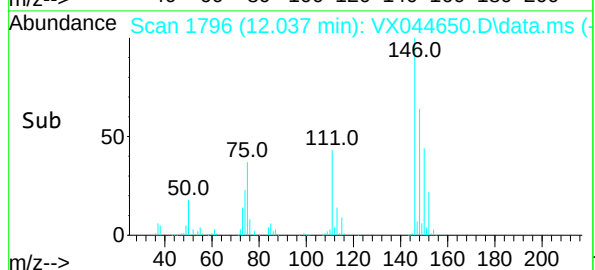
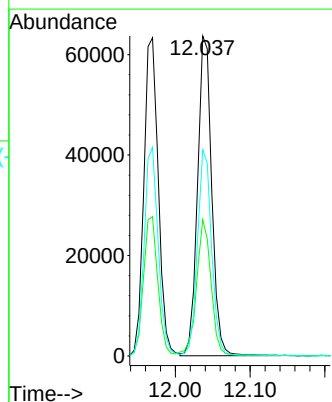
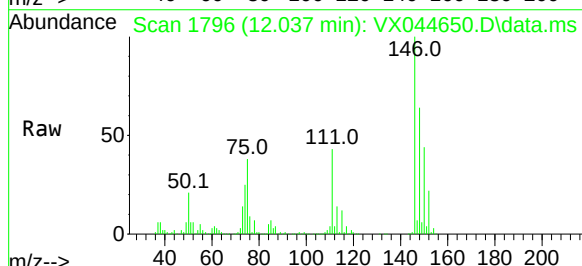
RT: 12.037 min Scan# 1796

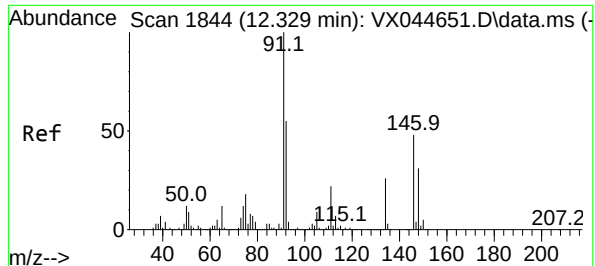
Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Tgt Ion:146	Resp:	84055
Ion Ratio	Lower	Upper
146	100	
111	42.8	21.5 64.5
148	64.1	32.1 96.5





#89

n-Butylbenzene

Concen: 19.391 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

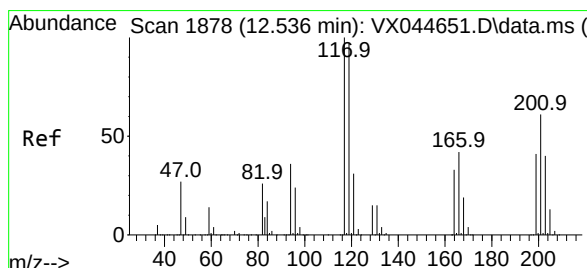
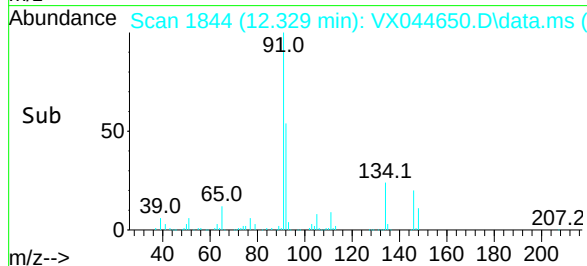
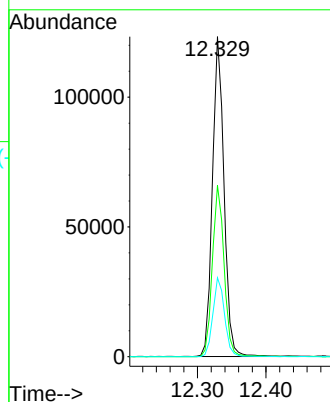
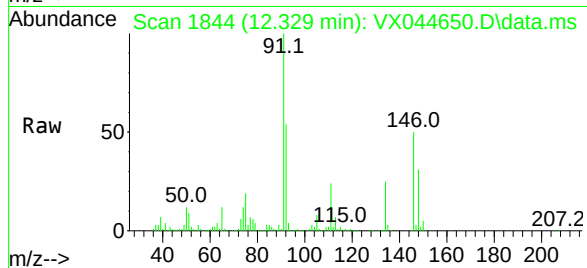
Tgt Ion:	91	Resp:	14501
Ion	Ratio	Lower	Upper
91	100		
92	54.4	27.4	82.0
134	25.0	12.8	38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#90

Hexachloroethane

Concen: 18.693 ug/l

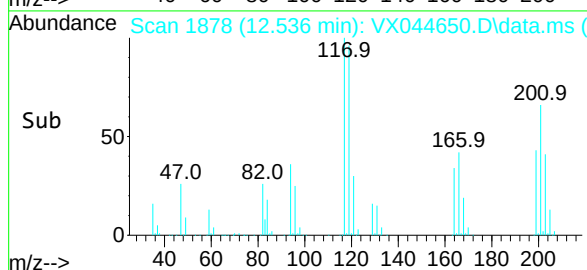
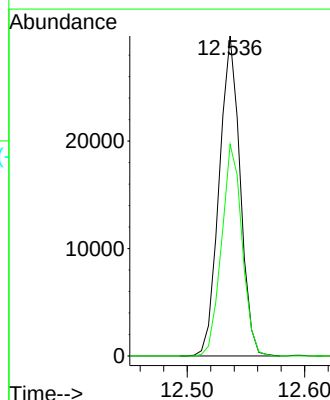
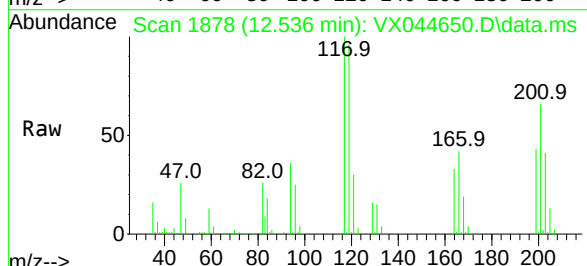
RT: 12.536 min Scan# 1878

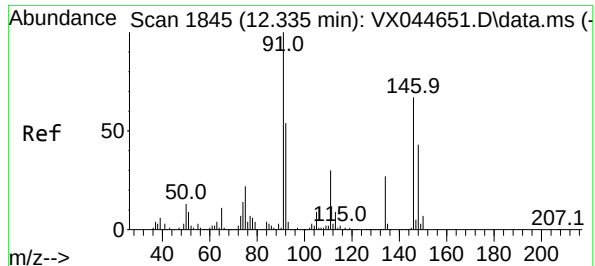
Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

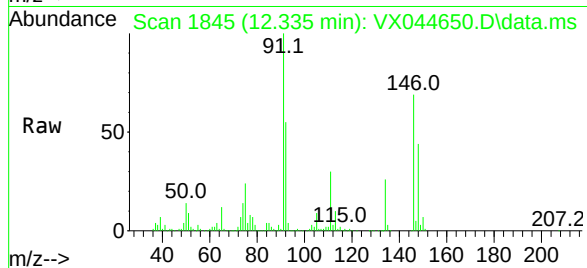
Tgt Ion:	117	Resp:	36858
Ion	Ratio	Lower	Upper
117	100		
201	64.9	32.3	96.8





#91
1,2-Dichlorobenzene
Concen: 19.582 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

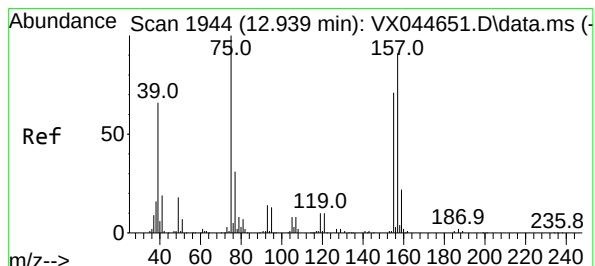
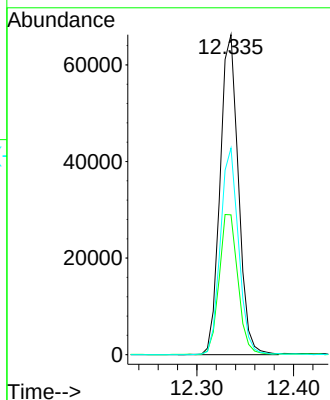
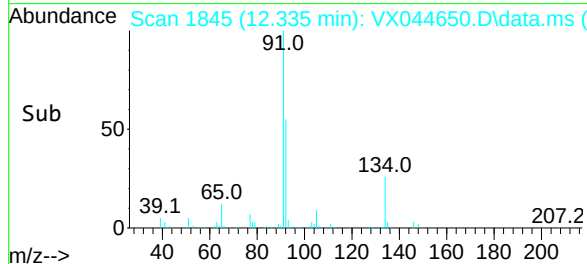
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



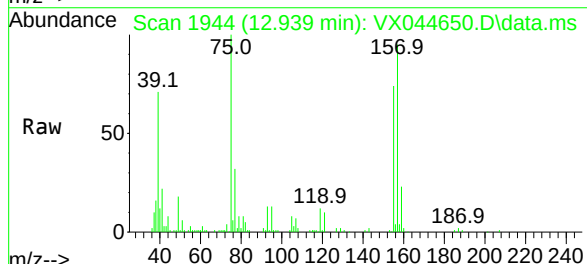
Tgt Ion:146 Resp: 8714
Ion Ratio Lower Upper
146 100
111 45.1 22.4 67.2
148 64.1 31.6 94.8

Manual Integrations
APPROVED

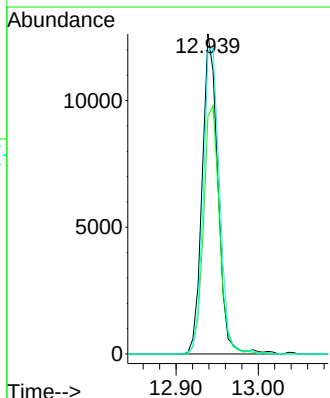
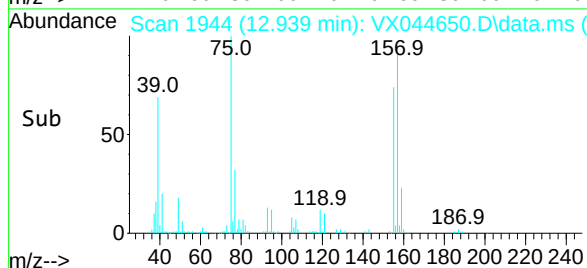
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

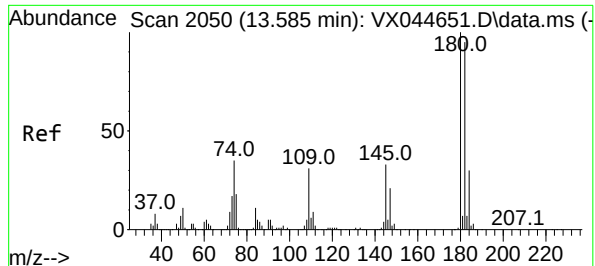


#92
1,2-Dibromo-3-Chloropropane
Concen: 18.572 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40



Tgt Ion: 75 Resp: 16770
Ion Ratio Lower Upper
75 100
155 79.6 39.0 116.9
157 99.0 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 18.595 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

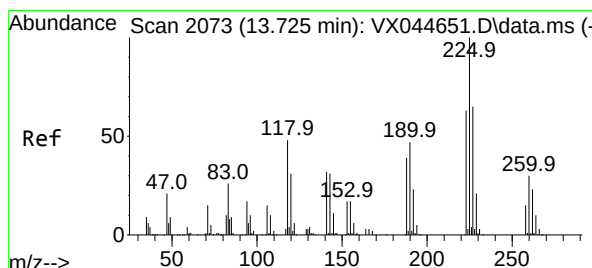
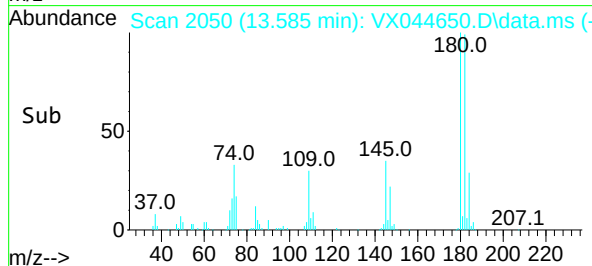
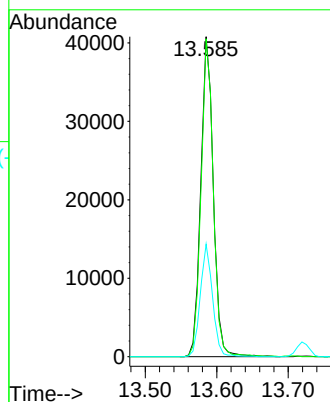
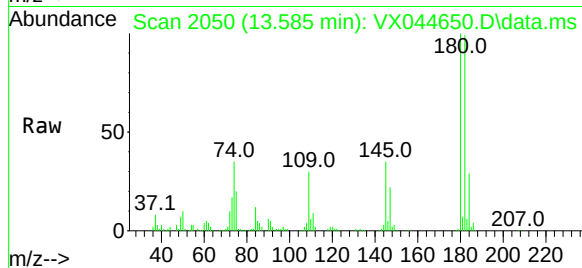
Tgt Ion:180	Resp:	4947
Ion Ratio	Lower	Upper
180	100	
182	97.1	47.4 142.2
145	34.5	16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#94

Hexachlorobutadiene

Concen: 18.672 ug/l

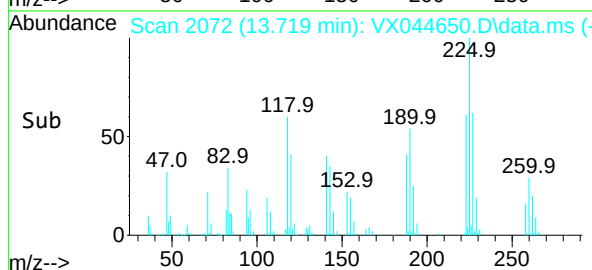
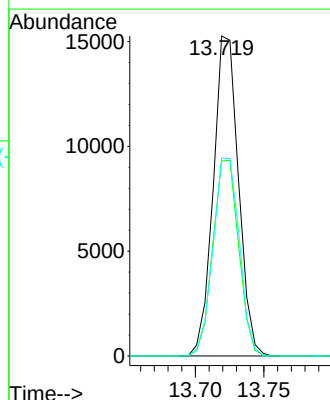
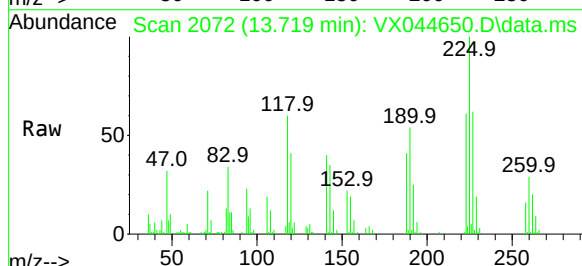
RT: 13.719 min Scan# 2072

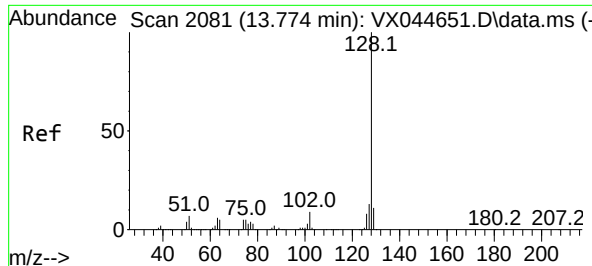
Delta R.T. -0.006 min

Lab File: VX044650.D

Acq: 15 Jan 2025 11:40

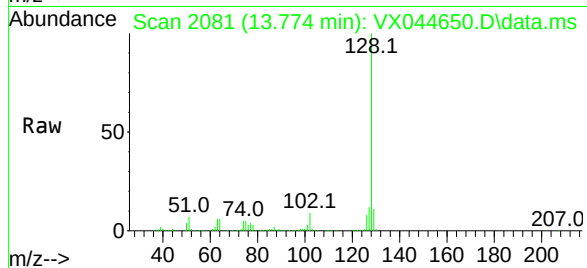
Tgt Ion:225	Resp:	19513
Ion Ratio	Lower	Upper
225	100	
223	62.8	31.9 95.7
227	64.4	31.8 95.4





#95
Naphthalene
Concen: 19.372 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

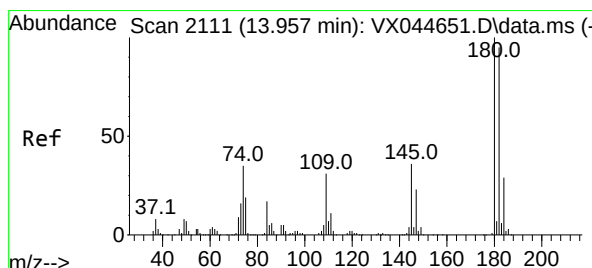
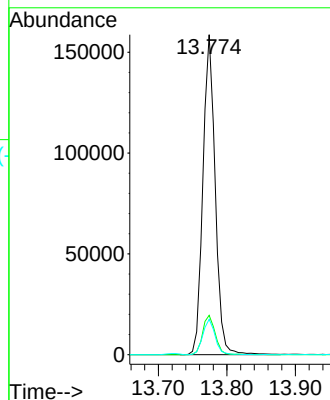
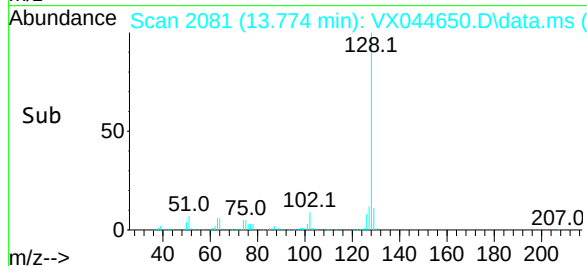
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:128 Resp: 198769
Ion Ratio Lower Upper
128 100
127 12.6 10.3 15.5
129 11.1 8.7 13.1

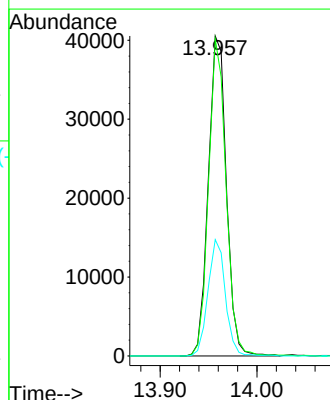
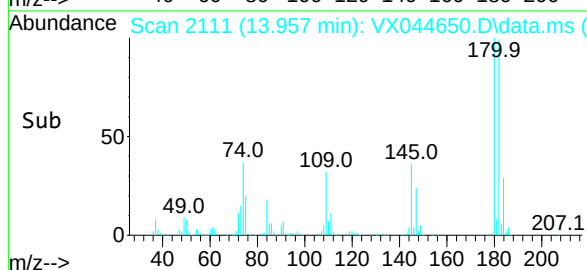
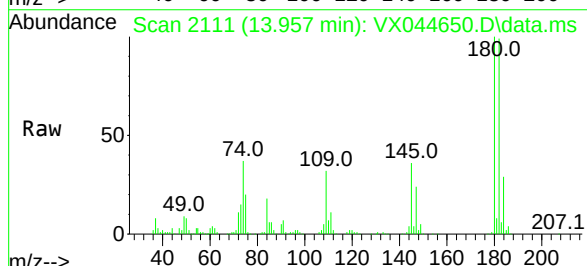
Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 19.093 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:180 Resp: 52651
Ion Ratio Lower Upper
180 100
182 95.9 47.2 141.6
145 35.2 17.5 52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044651.D
 Acq On : 15 Jan 2025 12:02
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:00:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	191095	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	351701	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	301141	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	127832	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	142316	49.339	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.680%		
35) Dibromofluoromethane	5.379	113	111739	50.011	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.020%		
50) Toluene-d8	8.647	98	390660	50.145	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.300%		
62) 4-Bromofluorobenzene	11.079	95	148223	51.037	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	102.080%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	129814	50.482	ug/l	100
3) Chloromethane	1.300	50	135661	48.786	ug/l	100
4) Vinyl Chloride	1.374	62	134180	48.836	ug/l	100
5) Bromomethane	1.593	94	32585	49.668	ug/l	100
6) Chloroethane	1.660	64	22356	44.371	ug/l	100
7) Trichlorofluoromethane	1.867	101	146280	48.172	ug/l	100
8) Diethyl Ether	2.136	74	55843	45.569	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	105786	46.343	ug/l	100
10) Methyl Iodide	2.440	142	154347	49.525	ug/l	100
11) Tert butyl alcohol	2.983	59	144614m	222.325	ug/l	
12) 1,1-Dichloroethene	2.306	96	108167	48.342	ug/l	100
13) Acrolein	2.239	56	64703	213.821	ug/l	100
14) Allyl chloride	2.654	41	200446	46.011	ug/l	100
15) Acrylonitrile	3.062	53	298629	236.777	ug/l	100
16) Acetone	2.386	43	255513	223.898	ug/l	100
17) Carbon Disulfide	2.501	76	295098	48.333	ug/l	100
18) Methyl Acetate	2.703	43	168213	47.777	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	388306	47.913	ug/l	100
20) Methylene Chloride	2.782	84	124271	46.761	ug/l	100
21) trans-1,2-Dichloroethene	3.081	96	108489	46.441	ug/l	100
22) Diisopropyl ether	3.757	45	363224	47.964	ug/l	100
23) Vinyl Acetate	3.715	43	1576614	237.862	ug/l	100
24) 1,1-Dichloroethane	3.599	63	215178	47.915	ug/l	100
25) 2-Butanone	4.556	43	407104	239.931	ug/l	100
26) 2,2-Dichloropropane	4.465	77	201388	46.271	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	137091	46.654	ug/l	100
28) Bromochloromethane	4.891	49	101453	48.346	ug/l	100
29) Tetrahydrofuran	5.001	42	256051	233.952	ug/l	100
30) Chloroform	5.086	83	218193	48.144	ug/l	100
31) Cyclohexane	5.458	56	177904	48.981	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	190478	45.718	ug/l	100
36) 1,1-Dichloropropene	5.684	75	143445	46.120	ug/l	100
37) Ethyl Acetate	4.708	43	162853	49.168	ug/l	100
38) Carbon Tetrachloride	5.672	117	161882	46.273	ug/l	100
39) Methylcyclohexane	7.373	83	193759	46.929	ug/l	100
40) Benzene	6.031	78	459433	47.670	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044651.D
 Acq On : 15 Jan 2025 12:02
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By :John Carlone 01/15/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:00:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	89498	47.017	ug/l	100
42) 1,2-Dichloroethane	6.080	62	167878	47.725	ug/l	100
43) Isopropyl Acetate	6.336	43	286693	47.053	ug/l	100
44) Trichloroethene	7.116	130	111112	47.956	ug/l	100
45) 1,2-Dichloropropane	7.427	63	115621	47.660	ug/l	100
46) Dibromomethane	7.574	93	86455	46.813	ug/l	100
47) Bromodichloromethane	7.818	83	178531	47.138	ug/l	100
48) Methyl methacrylate	7.690	41	140450	49.659	ug/l	100
49) 1,4-Dioxane	7.665	88	55679	943.583	ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	790152	234.662	ug/l	100
52) Toluene	8.714	92	283156	48.001	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	191876	49.036	ug/l	100
54) cis-1,3-Dichloropropene	8.360	75	201804	47.563	ug/l	100
55) 1,1,2-Trichloroethane	9.147	97	112274	47.043	ug/l	100
56) Ethyl methacrylate	9.116	69	198422	48.353	ug/l	100
57) 1,3-Dichloropropane	9.305	76	195182	48.025	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	479521	238.018	ug/l	100
59) 2-Hexanone	9.433	43	580029	234.142	ug/l	100
60) Dibromochloromethane	9.518	129	133941	47.816	ug/l	100
61) 1,2-Dibromoethane	9.604	107	118382	47.331	ug/l	100
64) Tetrachloroethene	9.269	164	89149	47.145	ug/l	100
65) Chlorobenzene	10.073	112	303658	47.474	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	110395	47.490	ug/l	100
67) Ethyl Benzene	10.189	91	535714	48.000	ug/l	100
68) m/p-Xylenes	10.299	106	395084	95.393	ug/l	100
69) o-Xylene	10.640	106	200396	47.845	ug/l	100
70) Styrene	10.652	104	327844	48.481	ug/l	100
71) Bromoform	10.799	173	90837	48.011	ug/l	100
73) Isopropylbenzene	10.957	105	500669	47.943	ug/l	100
74) N-amyl acetate	10.841	43	242893	47.188	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.213	83	166468	46.155	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	140834m	46.648	ug/l	
77) Bromobenzene	11.195	156	115377	47.268	ug/l	100
78) n-propylbenzene	11.299	91	561396	48.746	ug/l	100
79) 2-Chlorotoluene	11.360	91	353178	47.474	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	407362	47.918	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	65476	48.266	ug/l	100
82) 4-Chlorotoluene	11.451	91	393120	48.238	ug/l	100
83) tert-Butylbenzene	11.713	119	422348	47.513	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	410477	47.515	ug/l	100
85) sec-Butylbenzene	11.890	105	497964	48.113	ug/l	100
86) p-Isopropyltoluene	12.006	119	411853	48.421	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	206233	48.720	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	201574	47.960	ug/l	100
89) n-Butylbenzene	12.329	91	358698	49.100	ug/l	100
90) Hexachloroethane	12.536	117	88230	45.808	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	207903	47.824	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	39659	44.962	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	131779	50.708	ug/l	100
94) Hexachlorobutadiene	13.725	225	50255	49.230	ug/l	100
95) Naphthalene	13.774	128	487525	48.639	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	134816	50.047	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044651.D
Acq On : 15 Jan 2025 12:02
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:00:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

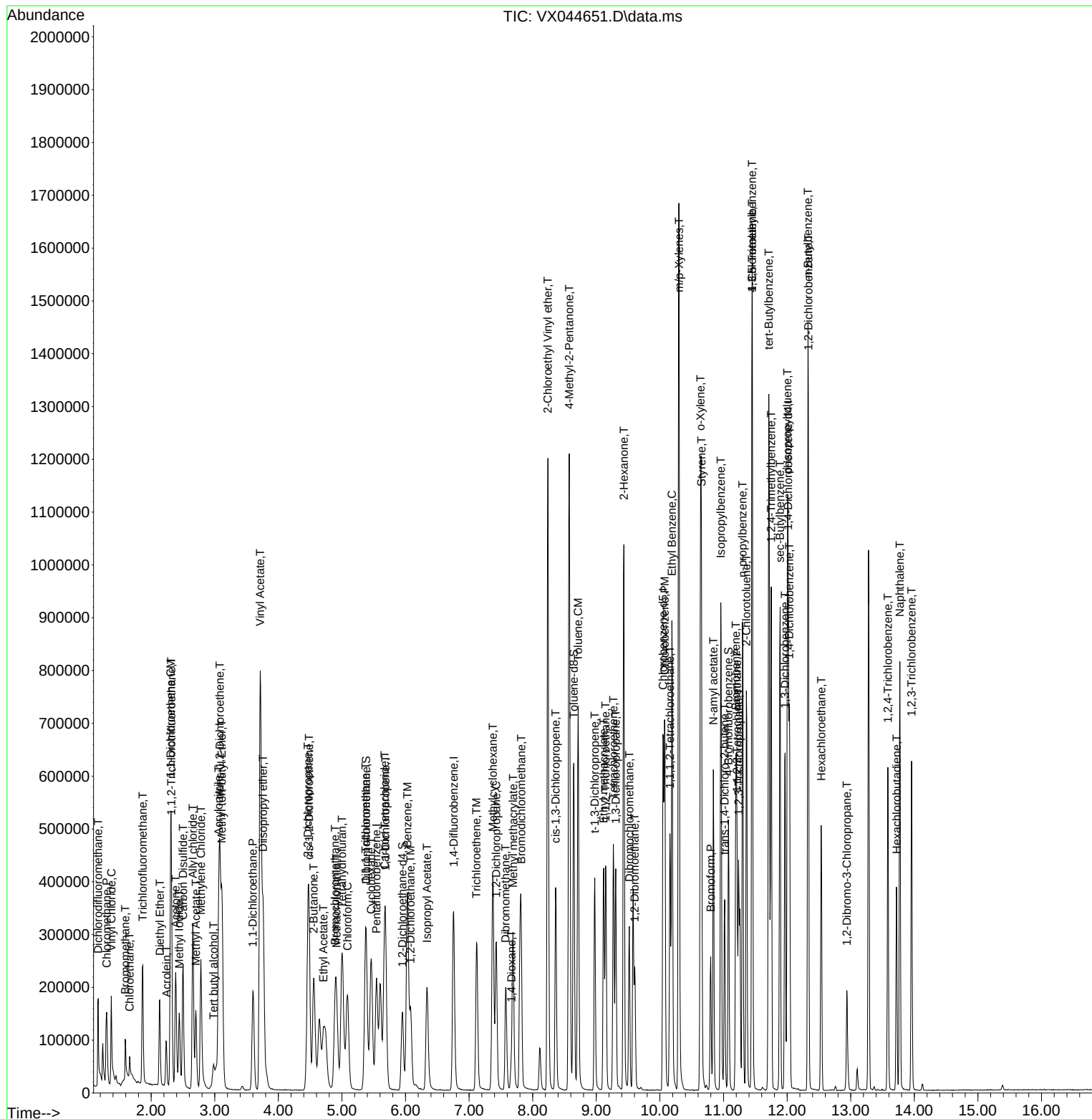
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

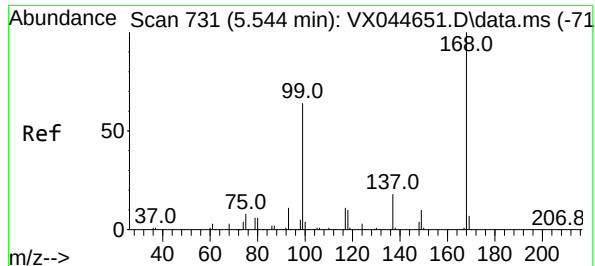
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations

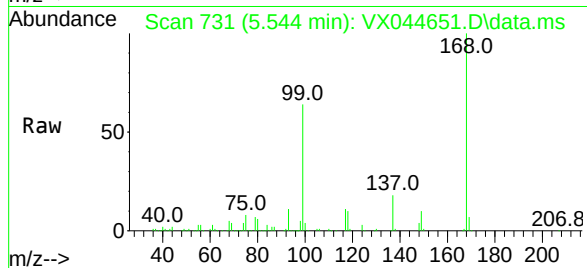
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

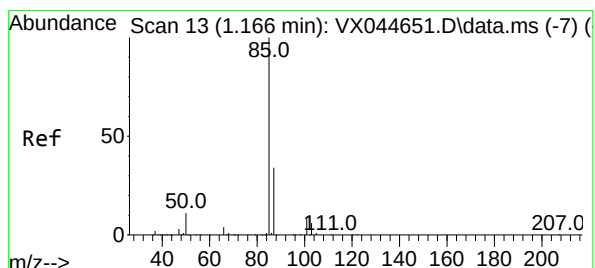
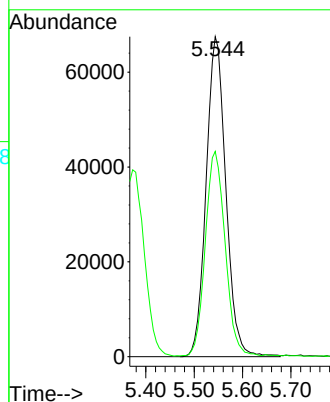
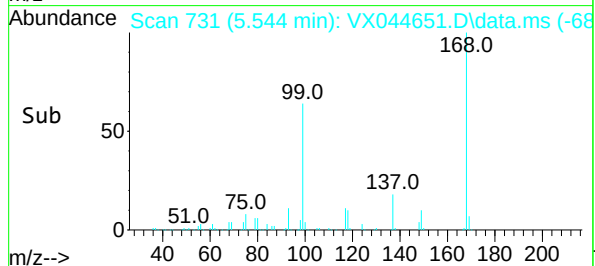
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:168 Resp: 191095
Ion Ratio Lower Upper
168 100
99 63.9 51.1 76.7

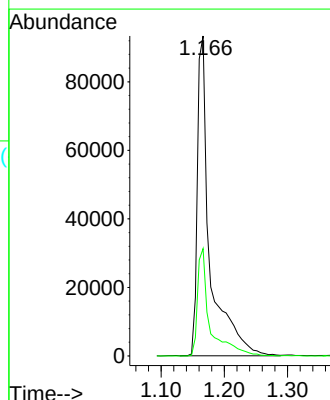
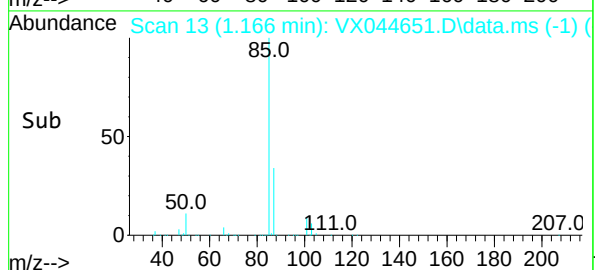
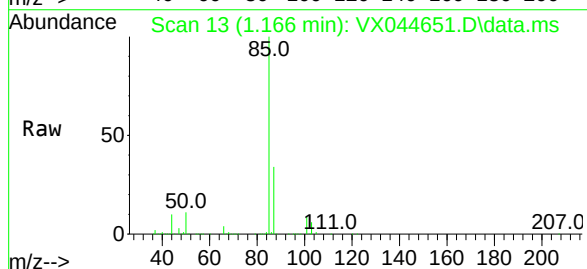
Manual Integrations
APPROVED

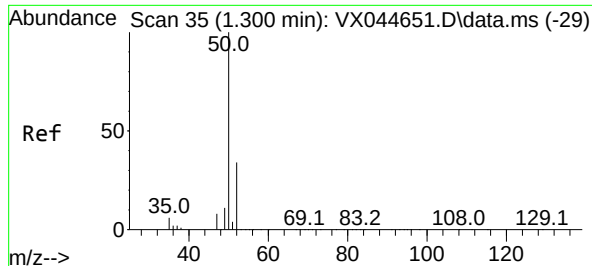
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#2
Dichlorodifluoromethane
Concen: 50.482 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

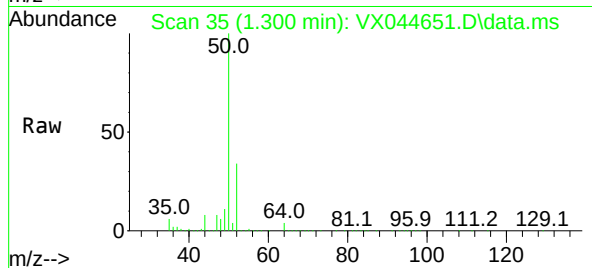
Tgt Ion: 85 Resp: 129814
Ion Ratio Lower Upper
85 100
87 33.6 16.8 50.4





#3
Chloromethane
Concen: 48.786 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

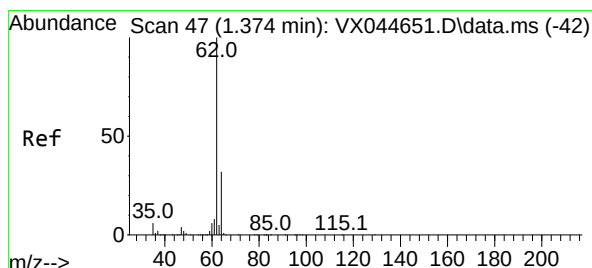
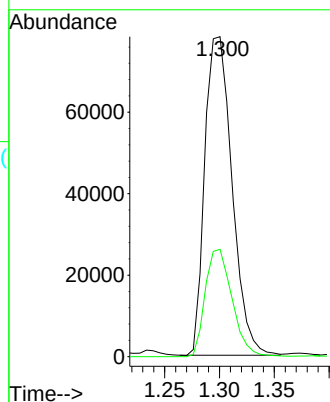
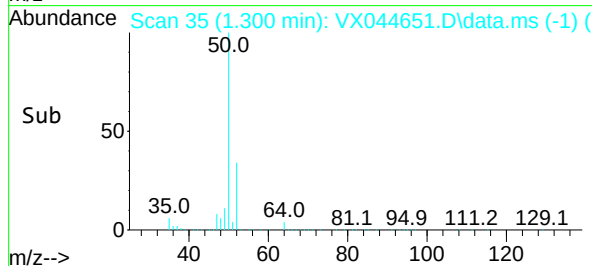
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 50 Resp: 13566
Ion Ratio Lower Upper
50 100
52 33.7 27.0 40.4

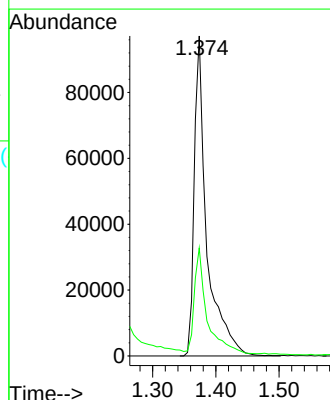
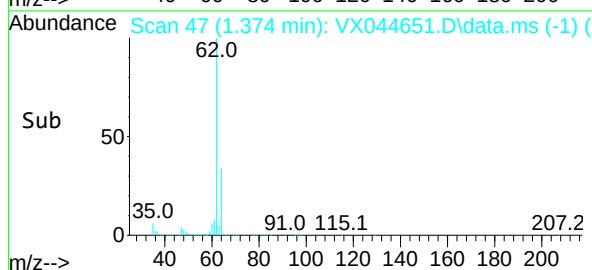
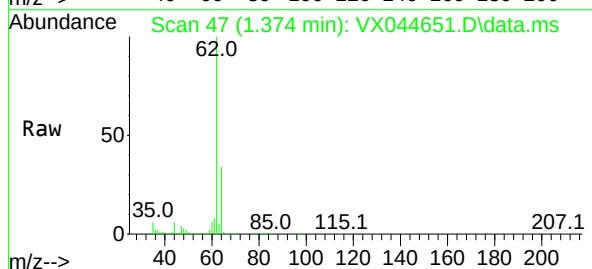
Manual Integrations
APPROVED

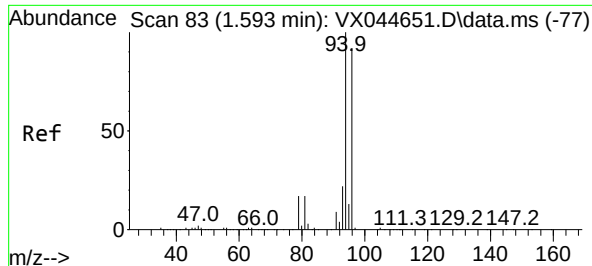
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#4
Vinyl Chloride
Concen: 48.836 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

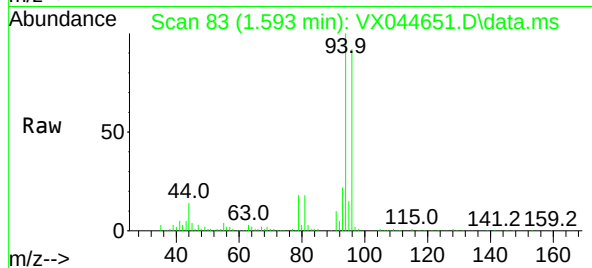
Tgt Ion: 62 Resp: 134180
Ion Ratio Lower Upper
62 100
64 33.2 26.6 39.8





#5
Bromomethane
Concen: 49.668 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

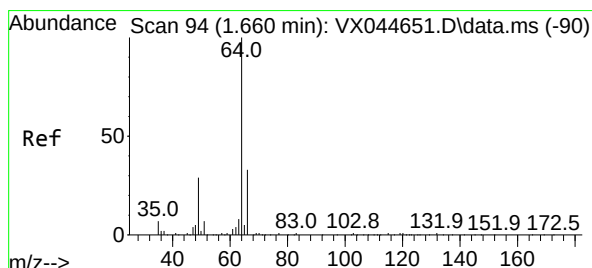
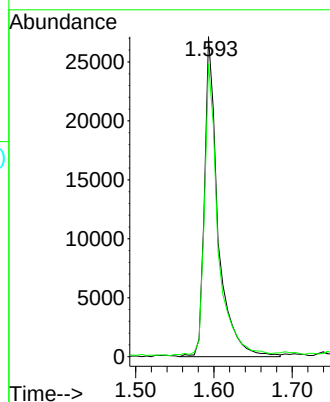
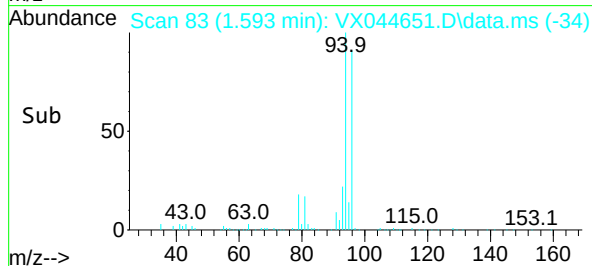
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 94 Resp: 3258
Ion Ratio Lower Upper
94 100
96 91.0 72.8 109.2

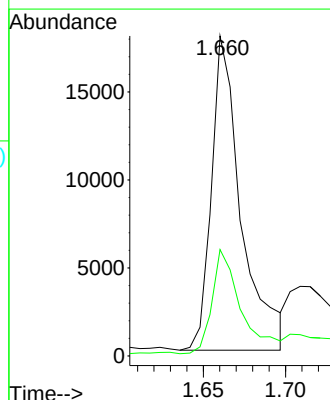
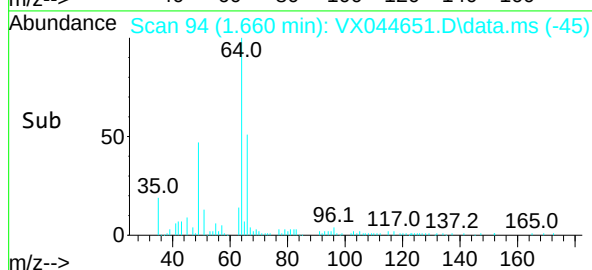
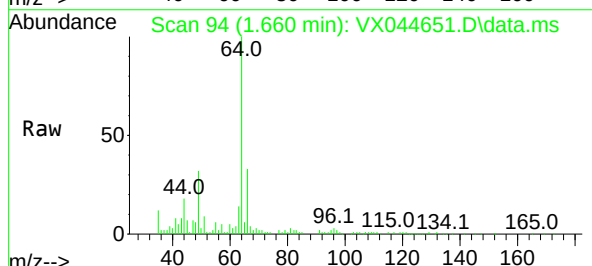
Manual Integrations
APPROVED

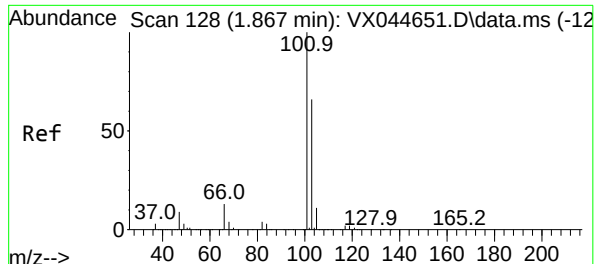
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#6
Chloroethane
Concen: 44.371 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

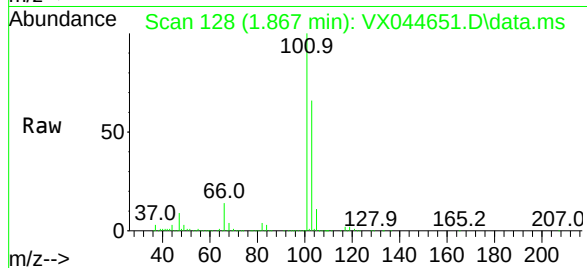
Tgt Ion: 64 Resp: 22356
Ion Ratio Lower Upper
64 100
66 33.2 26.6 39.8





#7
Trichlorofluoromethane
Concen: 48.172 ug/l
RT: 1.867 min Scan# 128
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

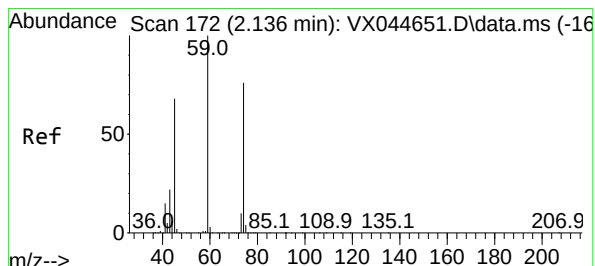
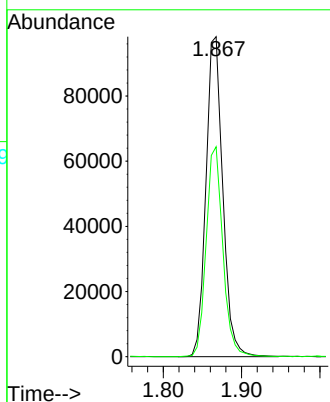
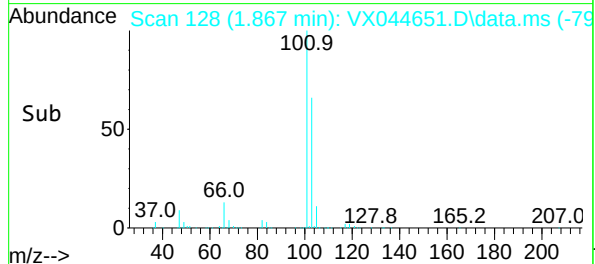
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:101 Resp: 146280
Ion Ratio Lower Upper
101 100
103 65.6 52.5 78.7

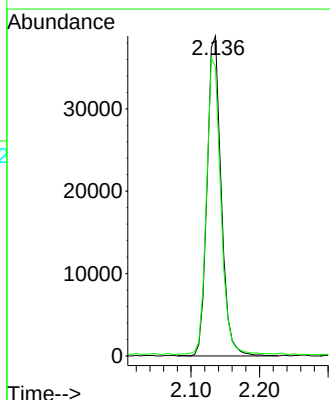
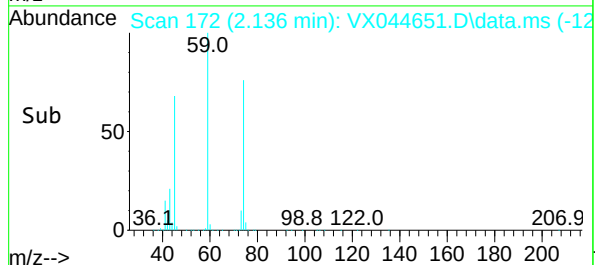
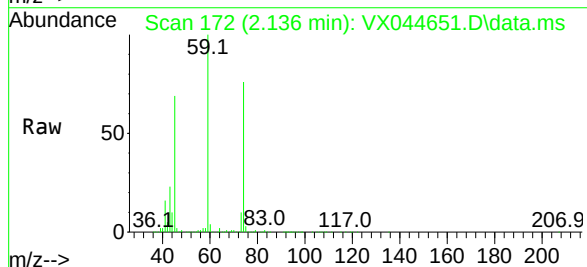
Manual Integrations
APPROVED

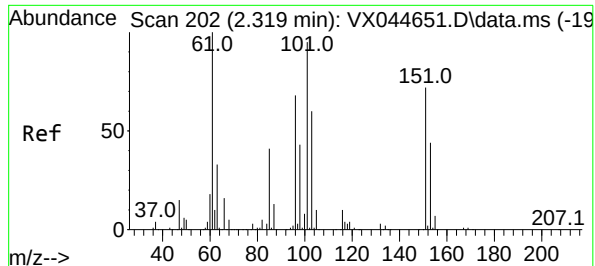
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#8
Diethyl Ether
Concen: 45.569 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 74 Resp: 55843
Ion Ratio Lower Upper
74 100
45 94.2 47.1 141.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.343 ug/l

RT: 2.319 min Scan# 202

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:101 Resp: 105780

Ion Ratio Lower Upper

101 100

85 44.1 35.3 52.9

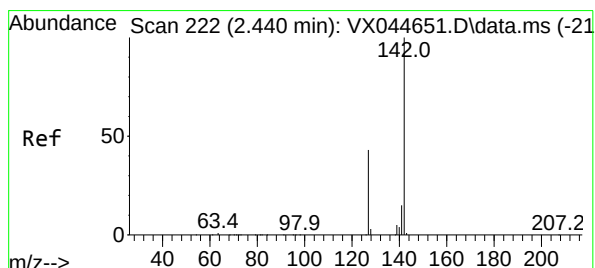
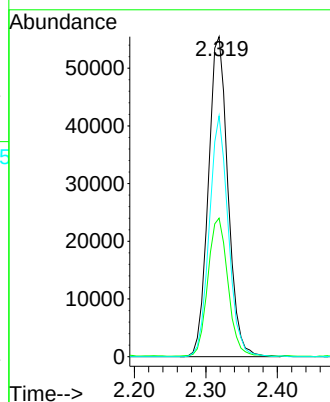
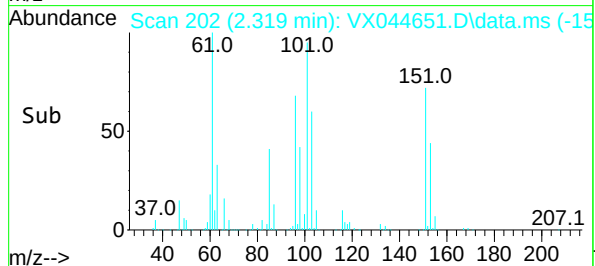
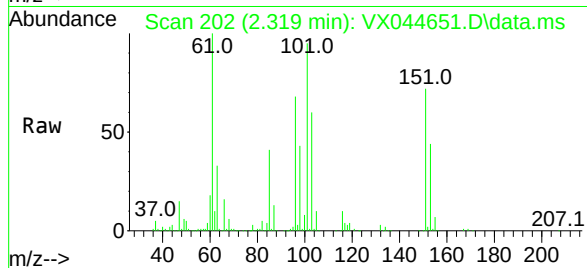
151 72.8 58.2 87.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#10

Methyl Iodide

Concen: 49.525 ug/l

RT: 2.440 min Scan# 222

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

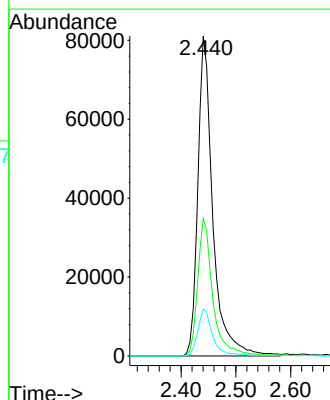
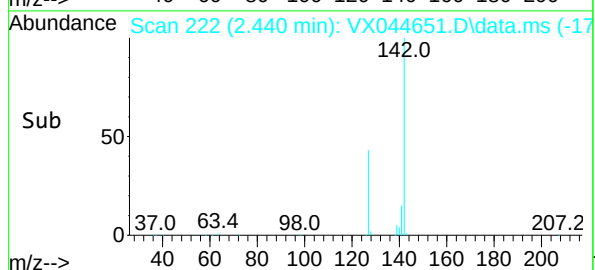
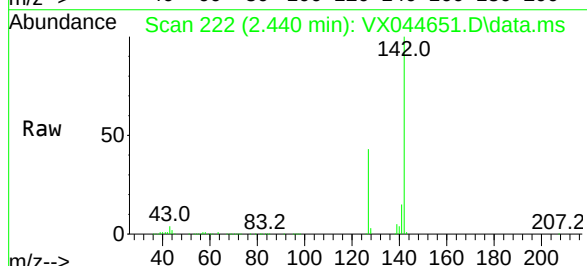
Tgt Ion:142 Resp: 154347

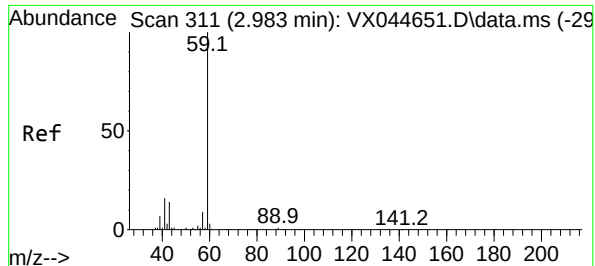
Ion Ratio Lower Upper

142 100

127 43.7 35.0 52.4

141 14.6 11.7 17.5





#11

Tert butyl alcohol

Concen: 222.325 ug/l m

RT: 2.983 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 144614

Ion Ratio Lower Upper

59 100

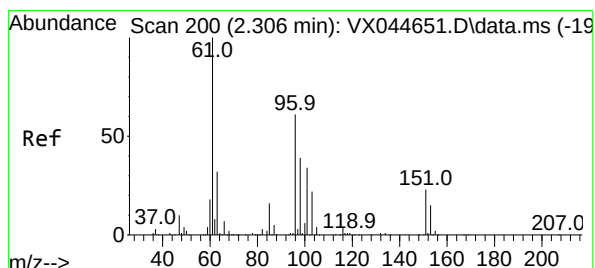
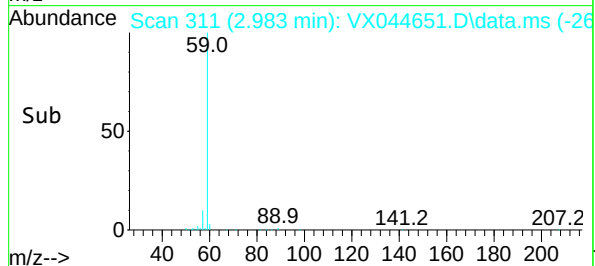
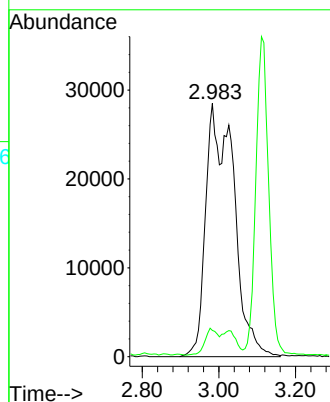
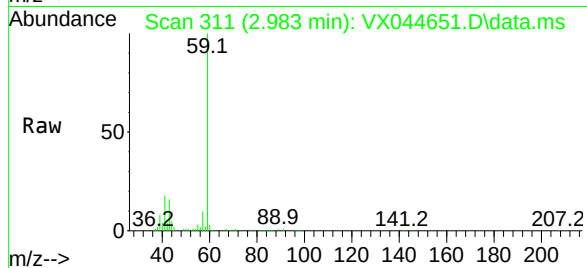
57 4.9 3.9 5.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#12

1,1-Dichloroethene

Concen: 48.342 ug/l

RT: 2.306 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

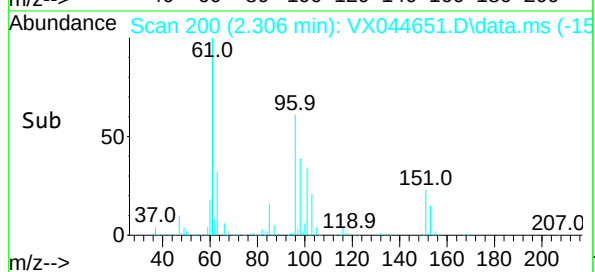
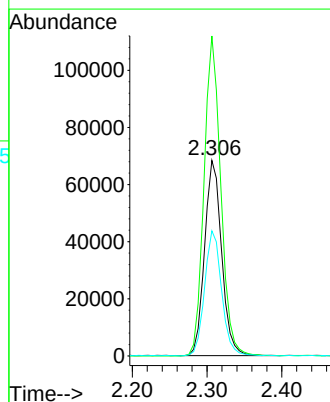
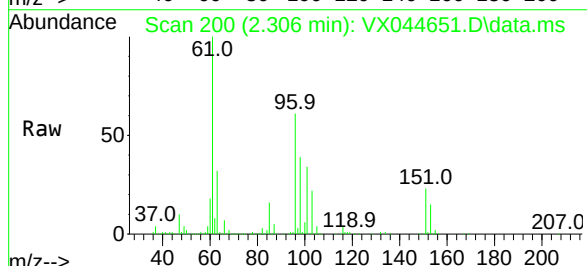
Tgt Ion: 96 Resp: 108167

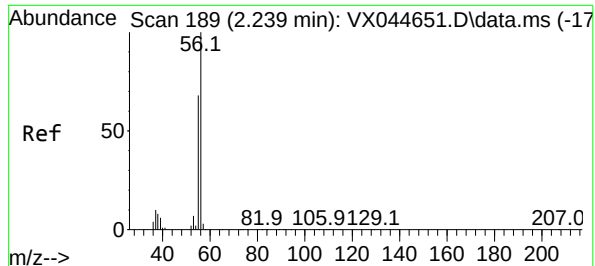
Ion Ratio Lower Upper

96 100

61 163.9 131.1 196.7

98 64.0 51.2 76.8





#13

Acrolein

Concen: 213.821 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 6470

Ion Ratio Lower Upper

56 100

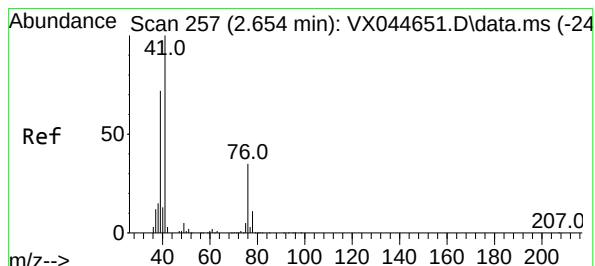
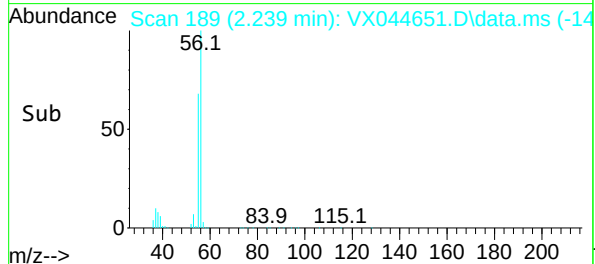
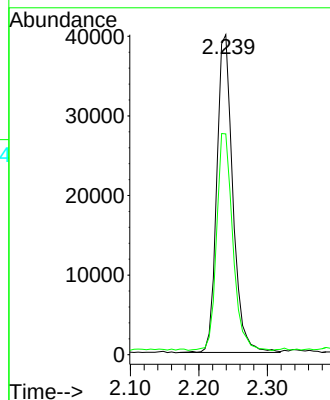
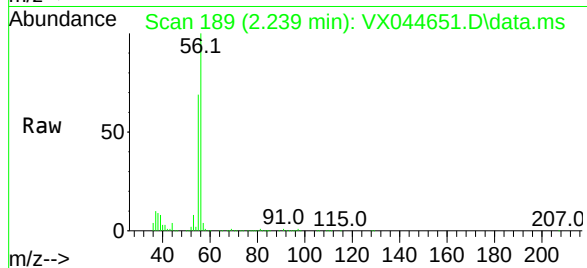
55 68.9 55.1 82.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#14

Allyl chloride

Concen: 46.011 ug/l

RT: 2.654 min Scan# 257

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

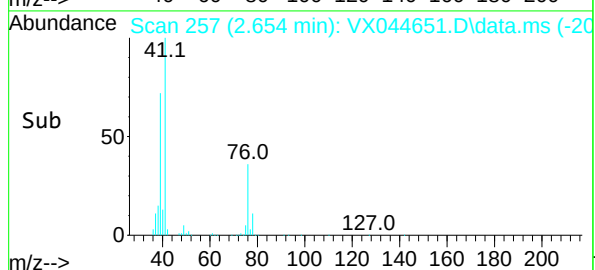
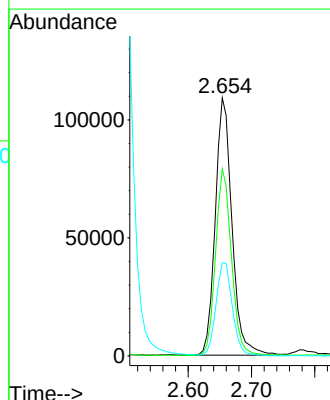
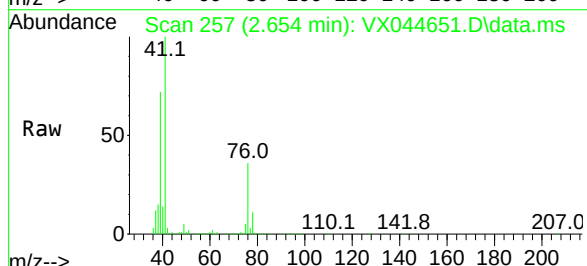
Tgt Ion: 41 Resp: 200446

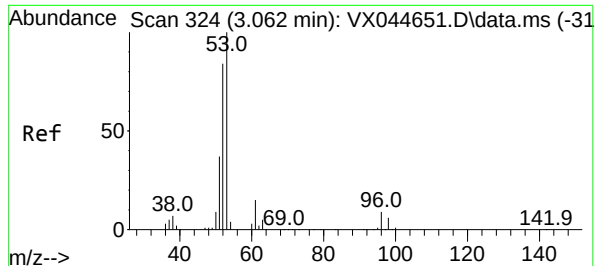
Ion Ratio Lower Upper

41 100

39 68.6 54.9 82.3

76 35.5 28.4 42.6





#15

Acrylonitrile

Concen: 236.777 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 298629

Ion Ratio Lower Upper

53 100

52 82.5 66.0 99.0

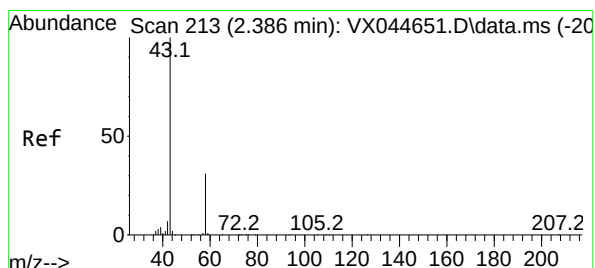
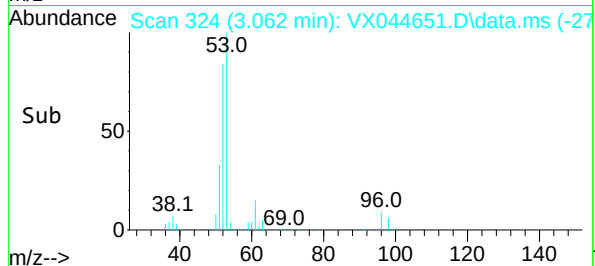
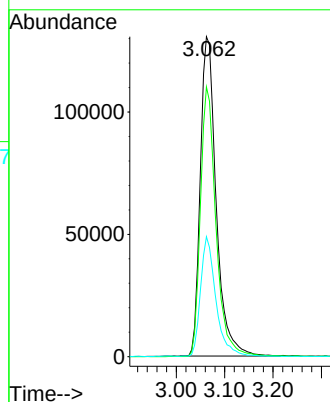
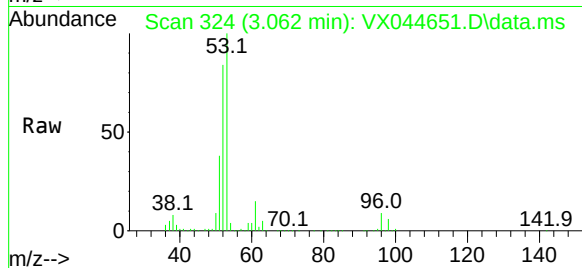
51 36.1 28.9 43.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#16

Acetone

Concen: 223.898 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX044651.D

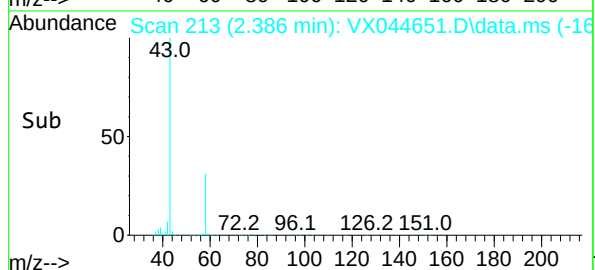
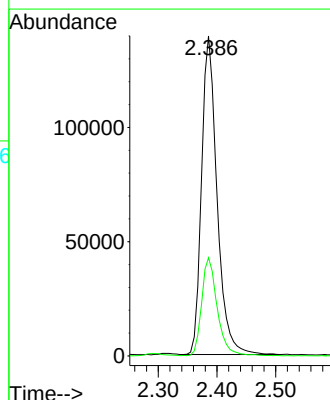
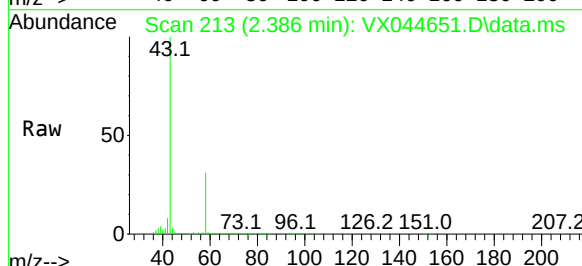
Acq: 15 Jan 2025 12:02

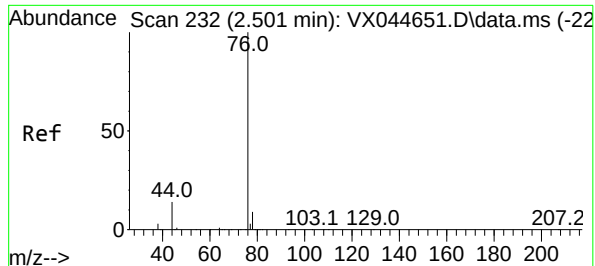
Tgt Ion: 43 Resp: 255513

Ion Ratio Lower Upper

43 100

58 30.8 24.6 37.0





#17

Carbon Disulfide

Concen: 48.333 ug/l

RT: 2.501 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 295098

Ion Ratio Lower Upper

76 100

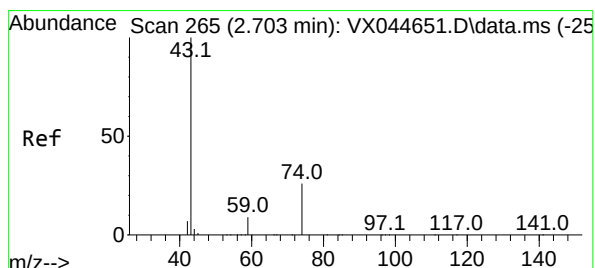
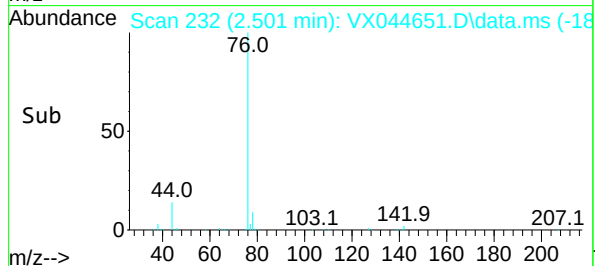
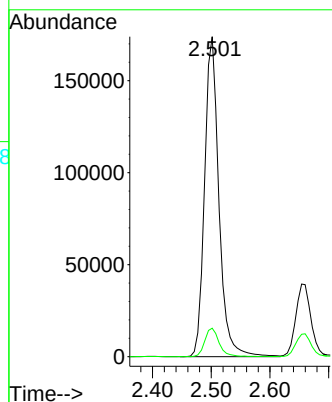
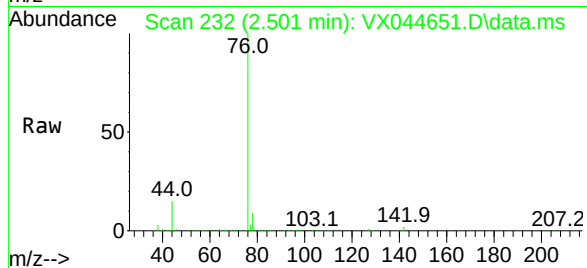
78 8.9 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#18

Methyl Acetate

Concen: 47.777 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044651.D

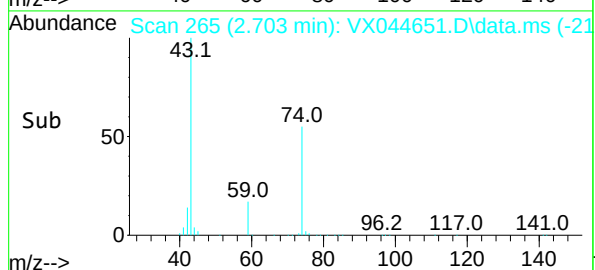
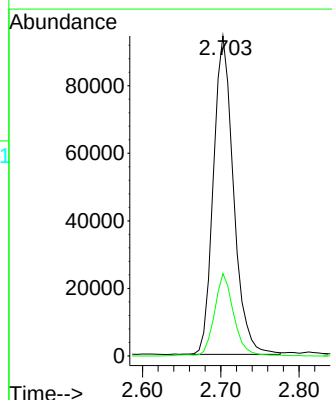
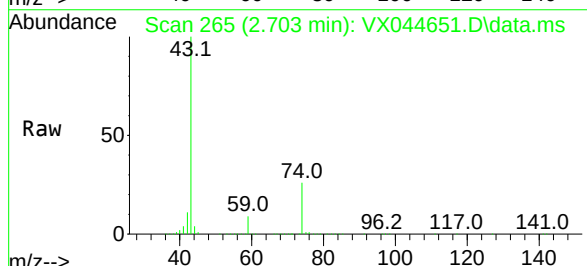
Acq: 15 Jan 2025 12:02

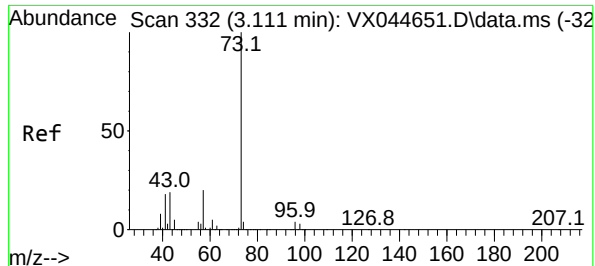
Tgt Ion: 43 Resp: 168213

Ion Ratio Lower Upper

43 100

74 24.8 19.8 29.8





#19

Methyl tert-butyl Ether

Concen: 47.913 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 388300

Ion Ratio Lower Upper

73 100

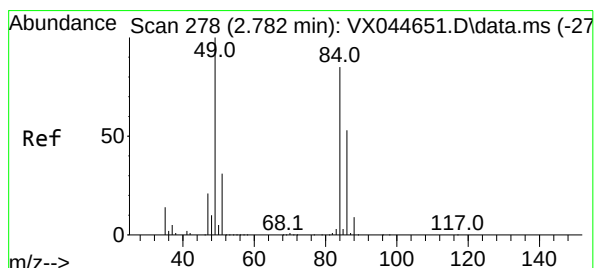
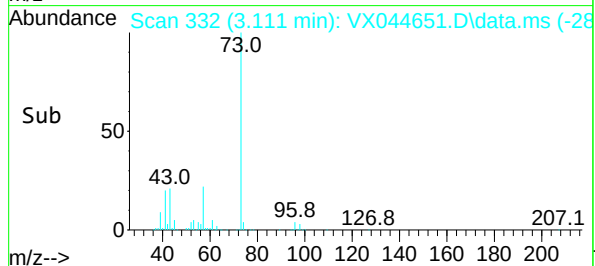
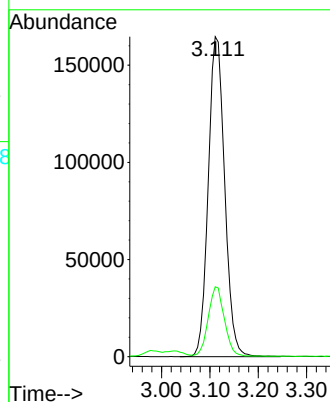
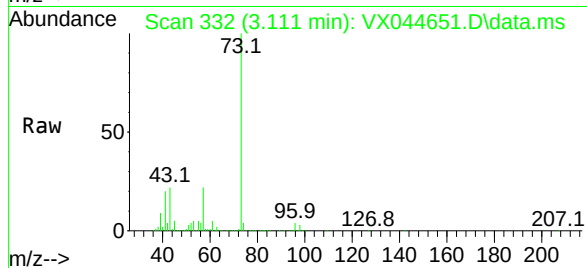
57 21.7 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#20

Methylene Chloride

Concen: 46.761 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Tgt Ion: 84 Resp: 124271

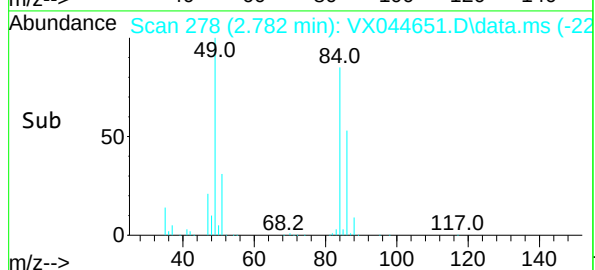
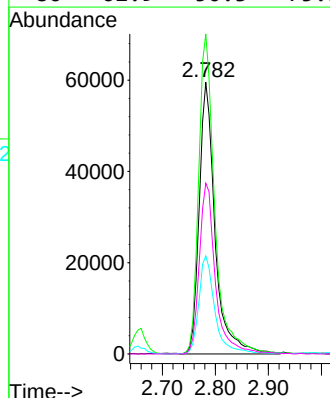
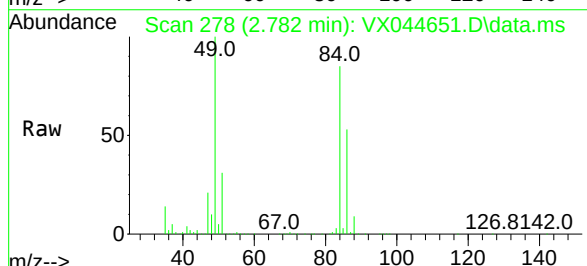
Ion Ratio Lower Upper

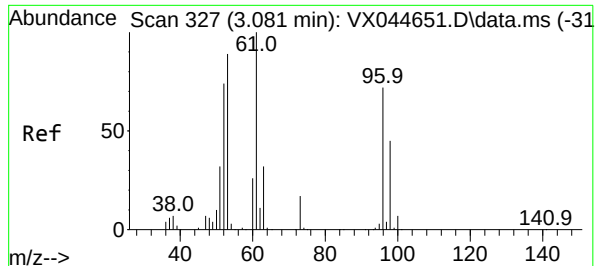
84 100

49 117.8 94.2 141.4

51 36.0 28.8 43.2

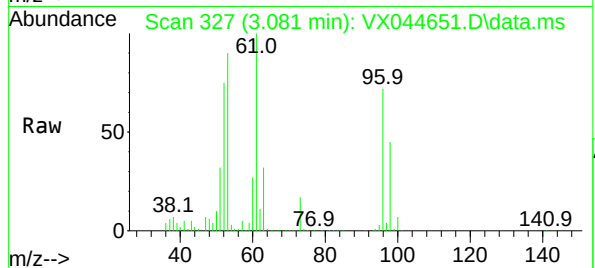
86 62.9 50.3 75.5





#21
trans-1,2-Dichloroethene
Concen: 46.441 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

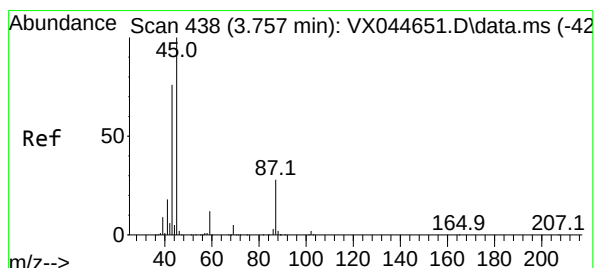
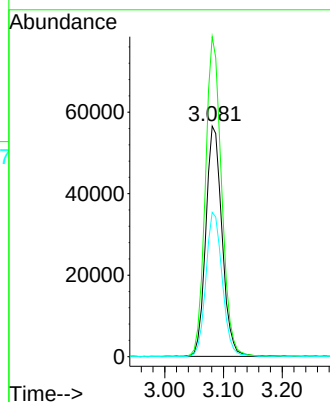
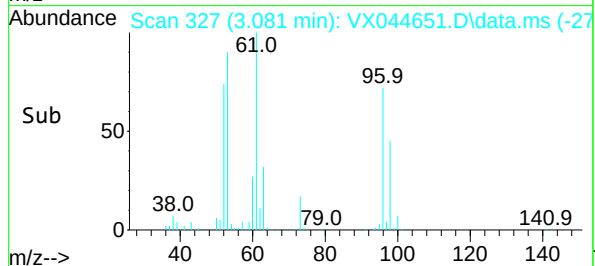
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 96 Resp: 108489
Ion Ratio Lower Upper
96 100
61 138.8 111.0 166.6
98 62.7 50.2 75.2

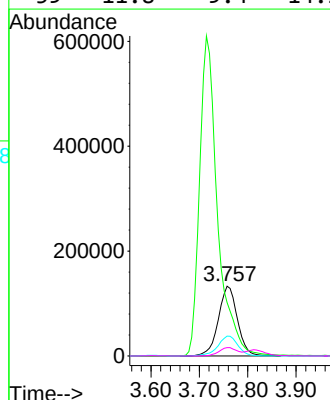
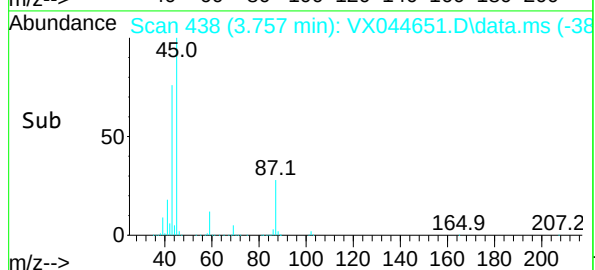
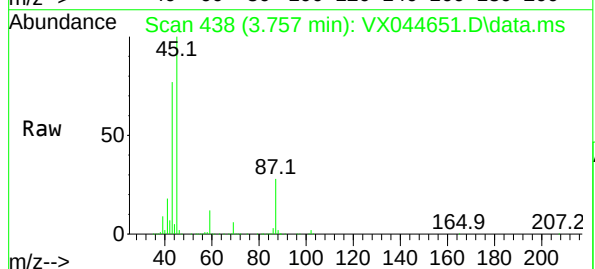
Manual Integrations
APPROVED

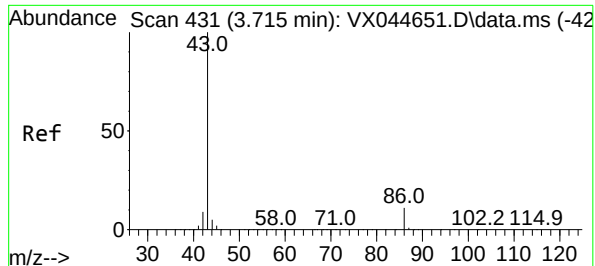
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#22
Diisopropyl ether
Concen: 47.964 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 45 Resp: 363224
Ion Ratio Lower Upper
45 100
43 76.3 61.0 91.6
87 28.4 22.7 34.1
59 11.8 9.4 14.2





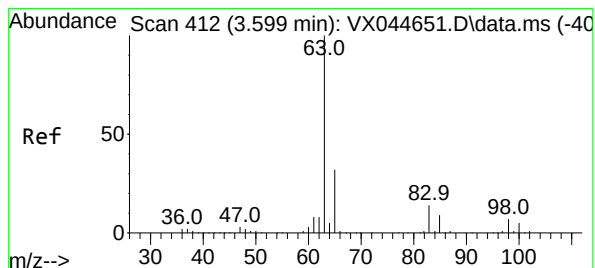
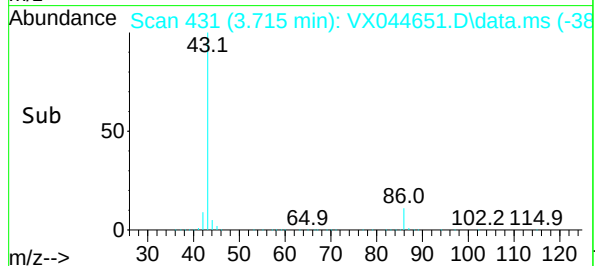
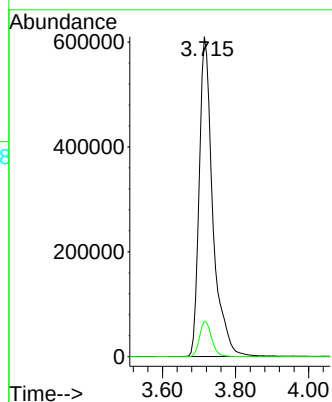
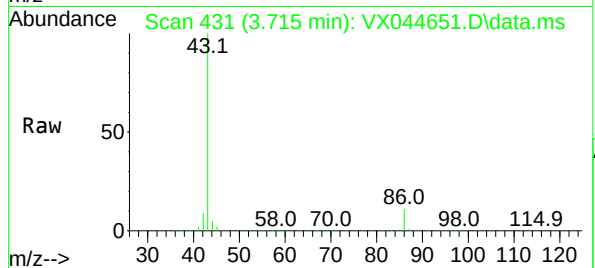
#23
Vinyl Acetate
Concen: 237.862 ug/l
RT: 3.715 min Scan# 411
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 1576614
Ion Ratio Lower Upper
43 100
86 11.1 8.9 13.3

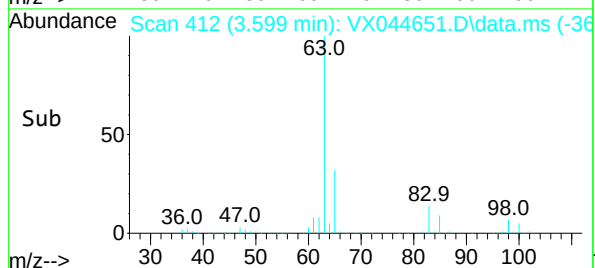
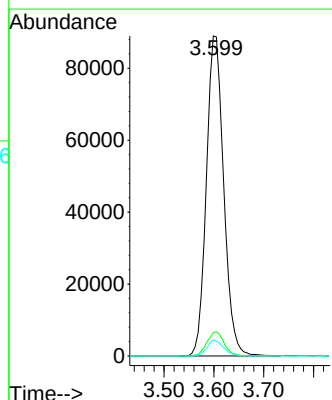
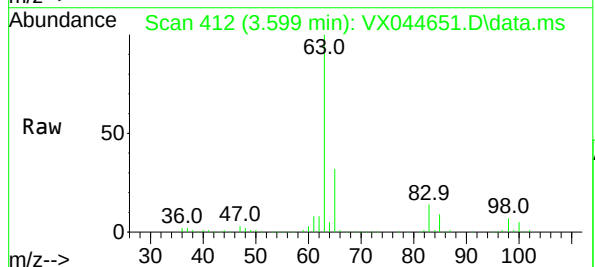
Manual Integrations
APPROVED

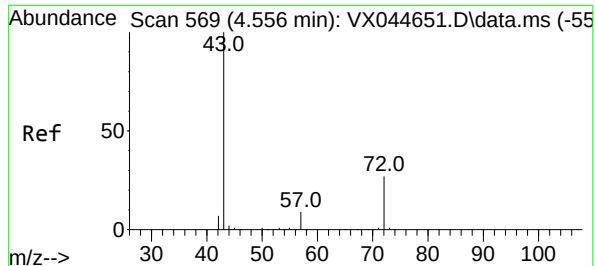
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#24
1,1-Dichloroethane
Concen: 47.915 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

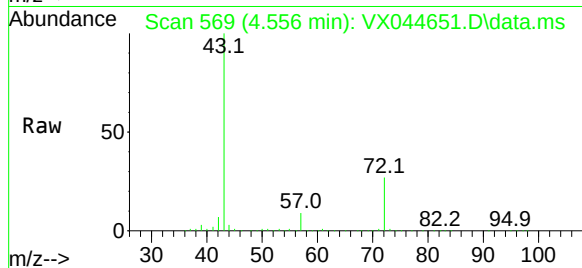
Tgt Ion: 63 Resp: 215178
Ion Ratio Lower Upper
63 100
98 7.3 3.6 10.9
100 5.0 2.5 7.5





#25
2-Butanone
Concen: 239.931 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

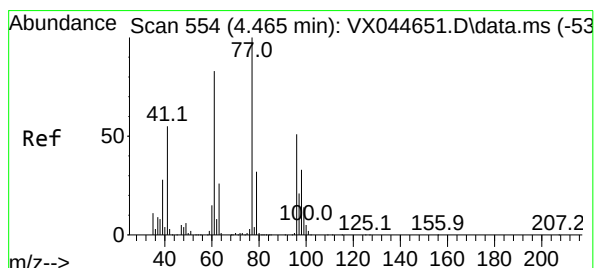
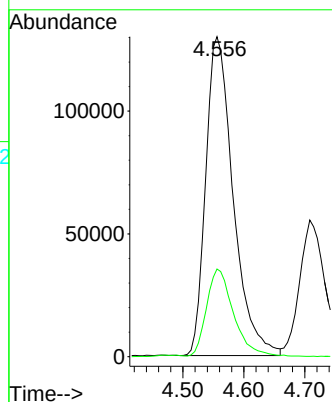
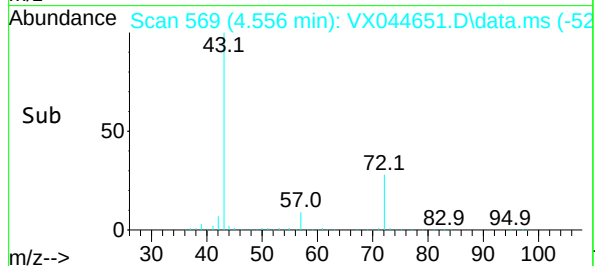
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 407104
Ion Ratio Lower Upper
43 100
72 27.1 21.7 32.5

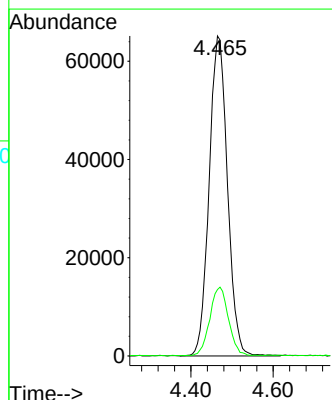
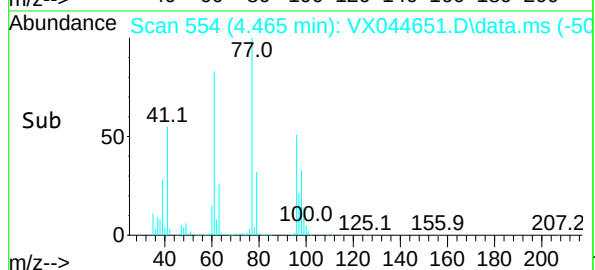
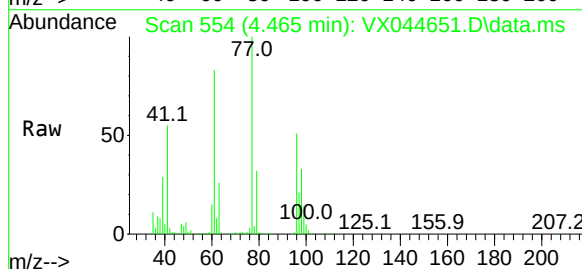
Manual Integrations
APPROVED

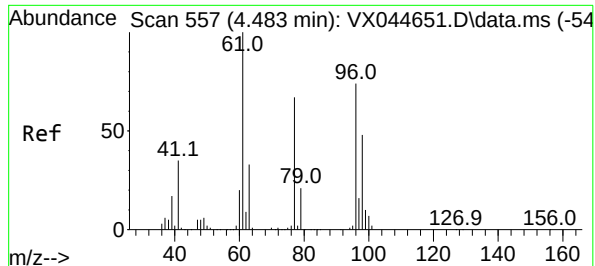
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#26
2,2-Dichloropropane
Concen: 46.271 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 77 Resp: 201388
Ion Ratio Lower Upper
77 100
97 21.7 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 46.654 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 13709

Ion Ratio Lower Upper

96 100

61 148.0 0.0 296.0

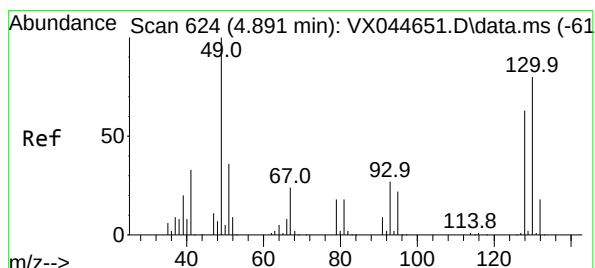
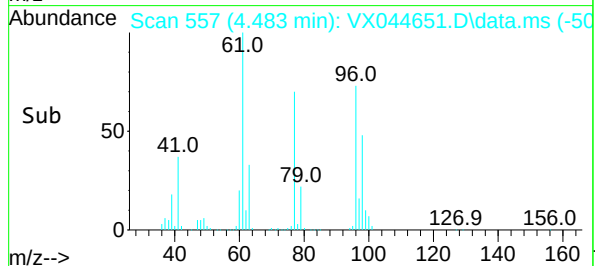
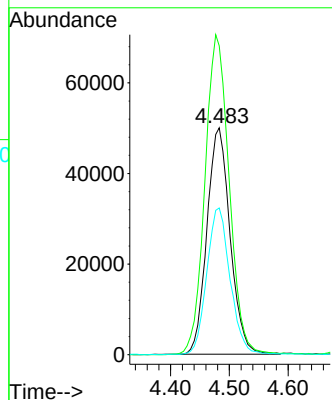
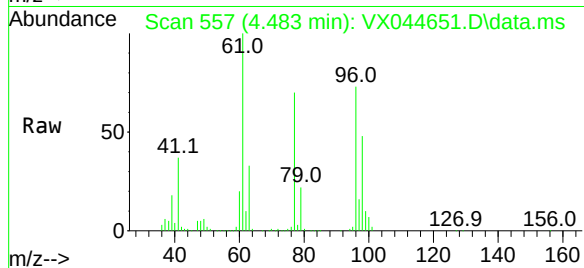
98 65.0 0.0 130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#28

Bromochloromethane

Concen: 48.346 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

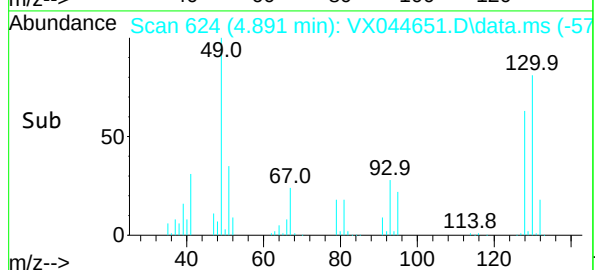
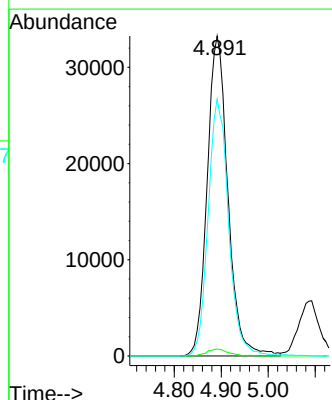
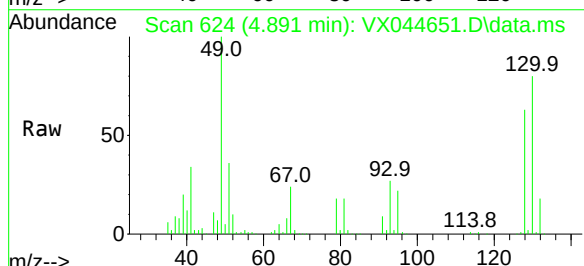
Tgt Ion: 49 Resp: 101453

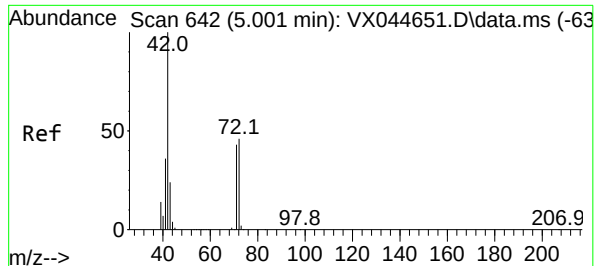
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.4

130 79.3 63.4 95.2





#29

Tetrahydrofuran

Concen: 233.952 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

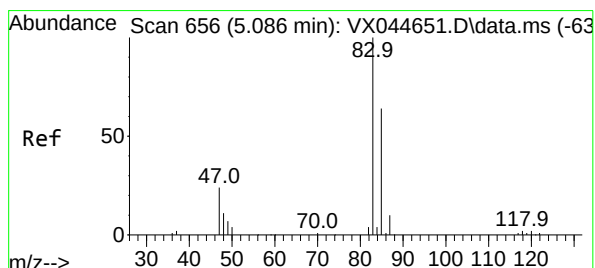
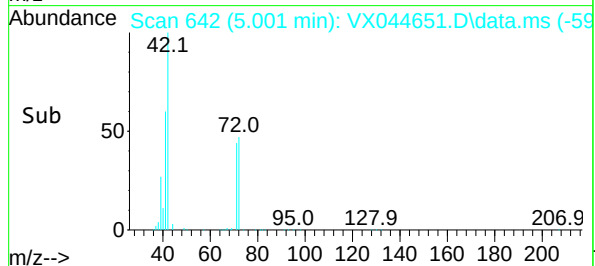
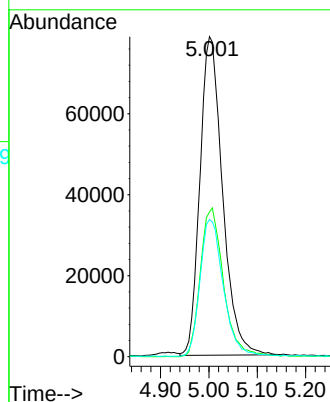
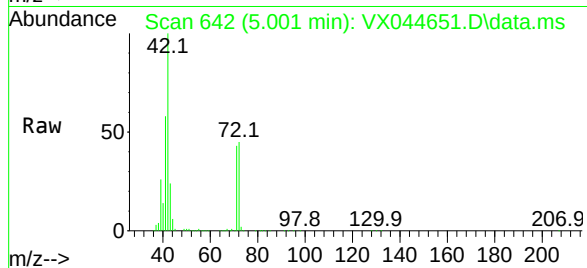
VSTDICCC050

Tgt Ion:	42	Resp:	25605
Ion	Ratio	Lower	Upper
42	100		
72	47.8	38.2	57.4
71	44.1	35.3	52.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#30

Chloroform

Concen: 48.144 ug/l

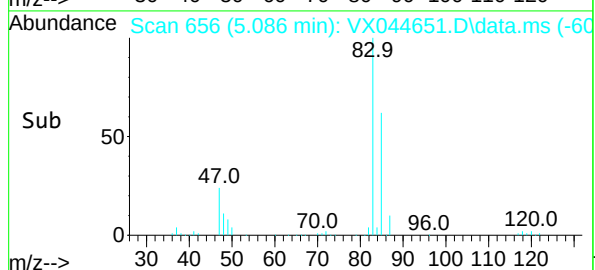
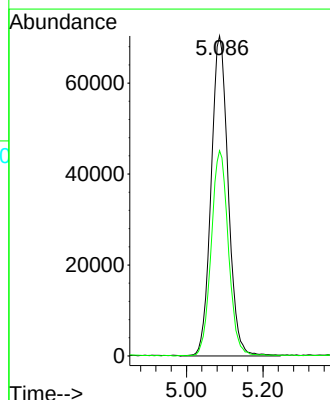
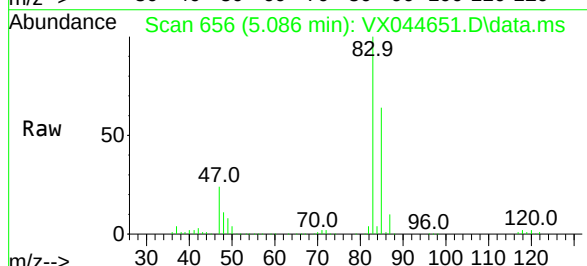
RT: 5.086 min Scan# 656

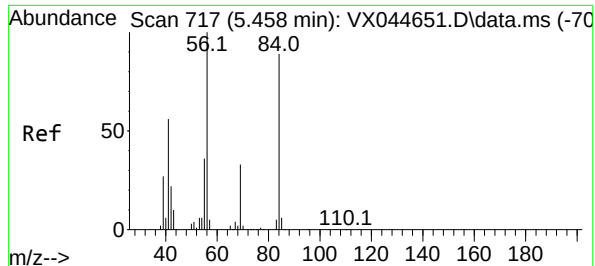
Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

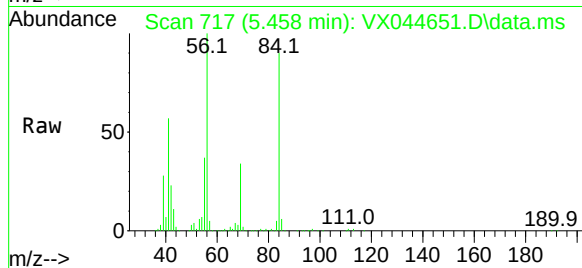
Tgt Ion:	83	Resp:	218193
Ion	Ratio	Lower	Upper
83	100		
85	64.0	51.2	76.8





#31
Cyclohexane
Concen: 48.981 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

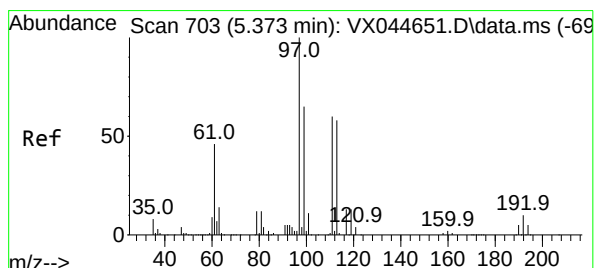
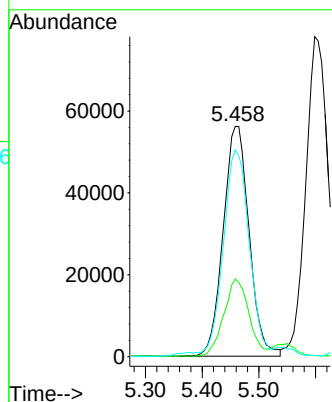
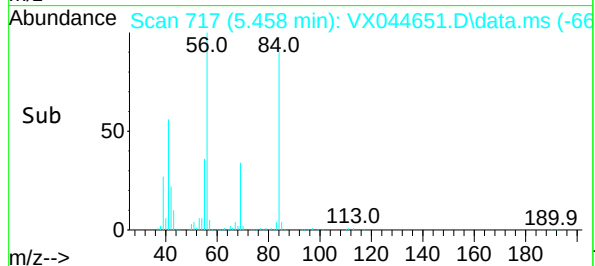
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 56 Resp: 177904
Ion Ratio Lower Upper
56 100
69 33.5 26.8 40.2
84 88.7 71.0 106.4

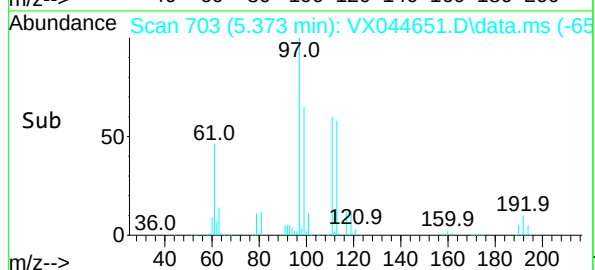
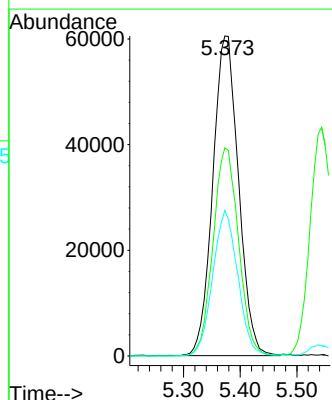
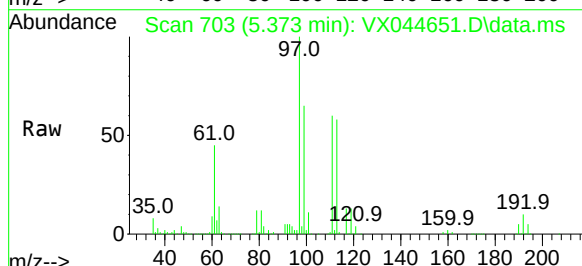
Manual Integrations
APPROVED

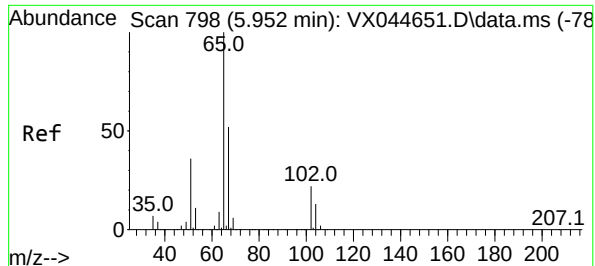
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#32
1,1,1-Trichloroethane
Concen: 45.718 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 97 Resp: 190478
Ion Ratio Lower Upper
97 100
99 64.5 51.6 77.4
61 44.5 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 49.339 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 142310

Ion Ratio Lower Upper

65 100

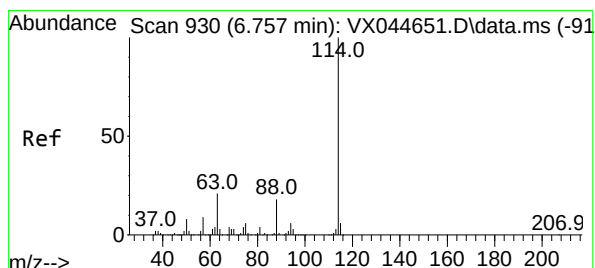
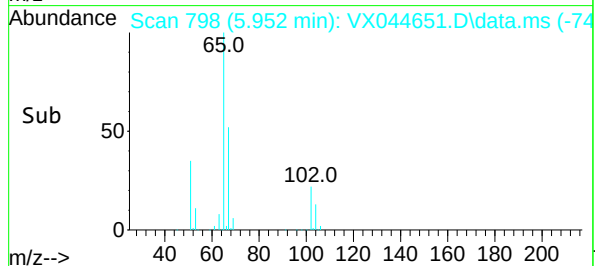
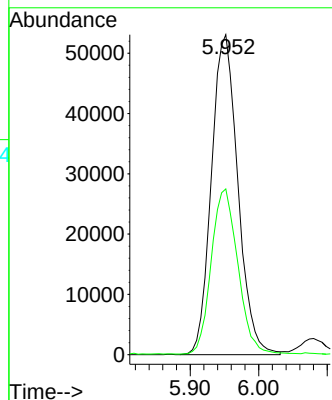
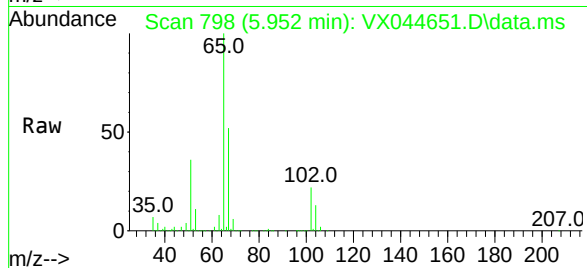
67 51.7 0.0 103.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

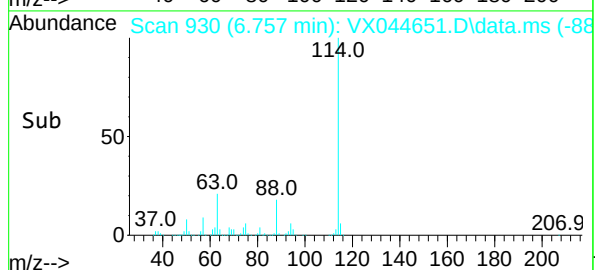
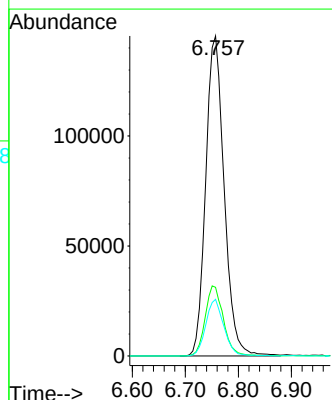
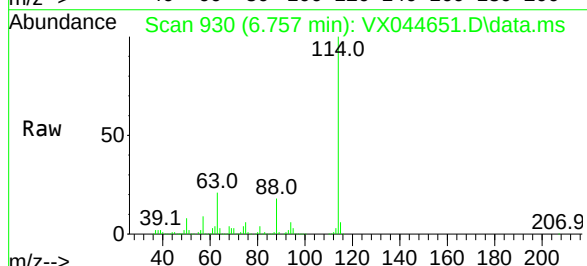
Tgt Ion:114 Resp: 351701

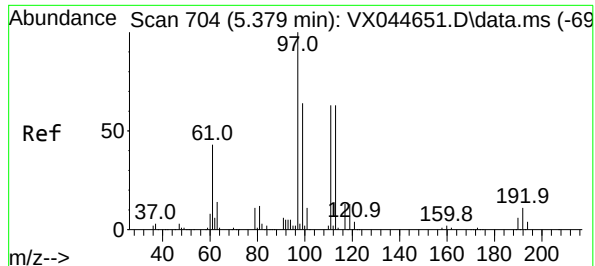
Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.0

88 17.7 0.0 35.4





#35

Dibromofluoromethane

Concen: 50.011 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 111739

Ion Ratio Lower Upper

113 100

111 102.0 81.6 122.4

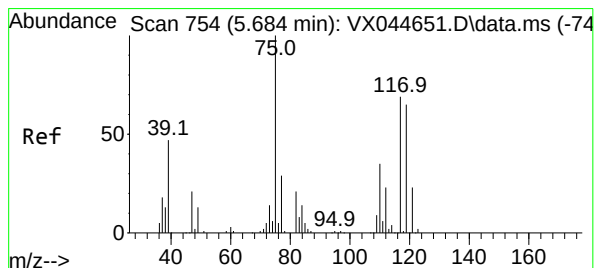
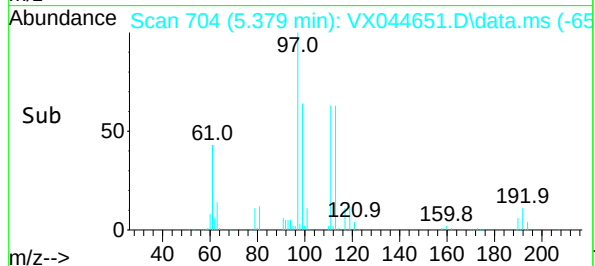
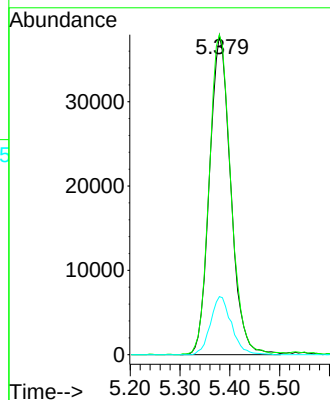
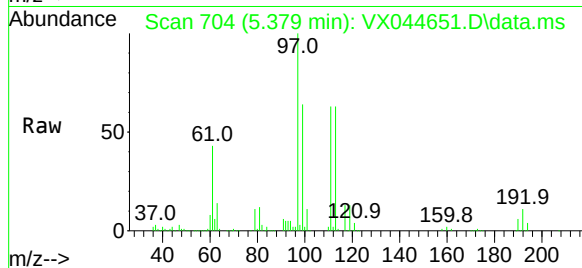
192 18.0 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#36

1,1-Dichloropropene

Concen: 46.120 ug/l

RT: 5.684 min Scan# 754

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

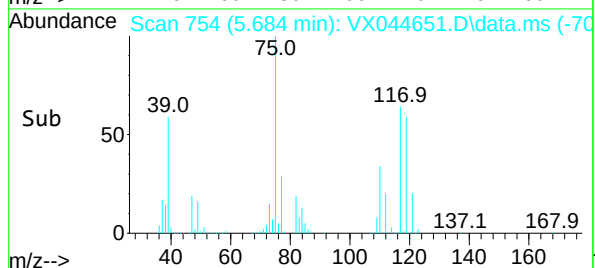
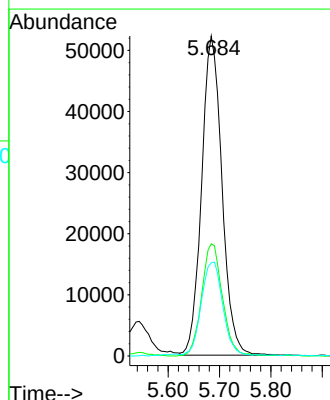
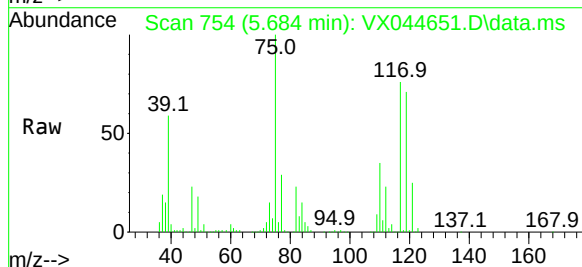
Tgt Ion: 75 Resp: 143445

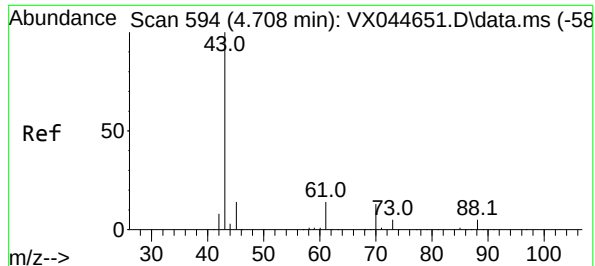
Ion Ratio Lower Upper

75 100

110 35.9 17.9 53.8

77 30.6 24.5 36.7





#37

Ethyl Acetate

Concen: 49.168 ug/l

RT: 4.708 min Scan# 594

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 16285

Ion Ratio Lower Upper

43 100

61 13.6 10.9 16.3

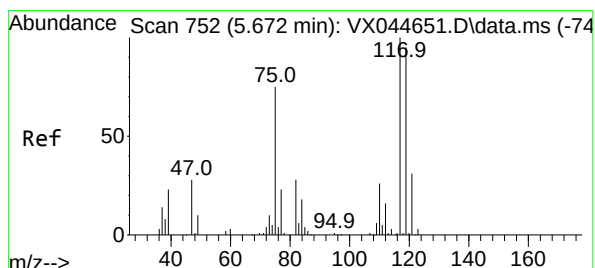
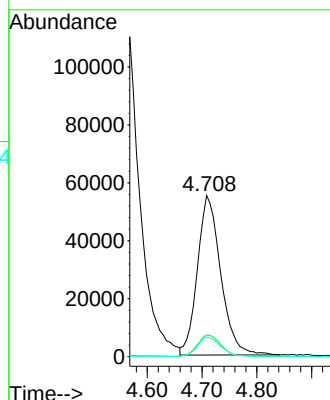
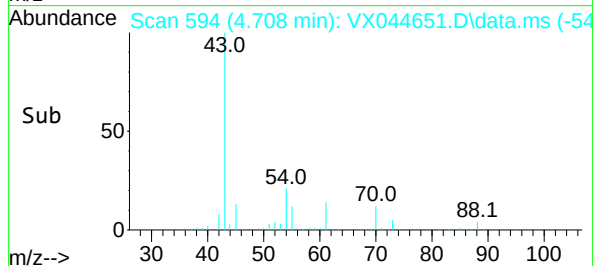
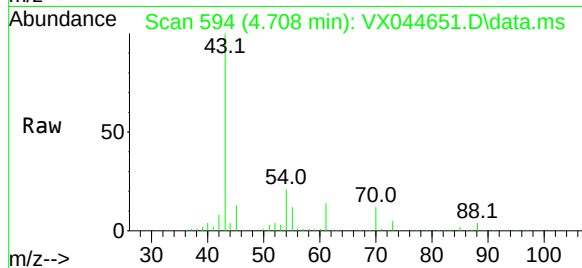
70 12.6 10.1 15.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#38

Carbon Tetrachloride

Concen: 46.273 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

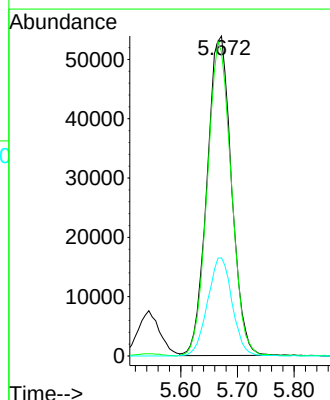
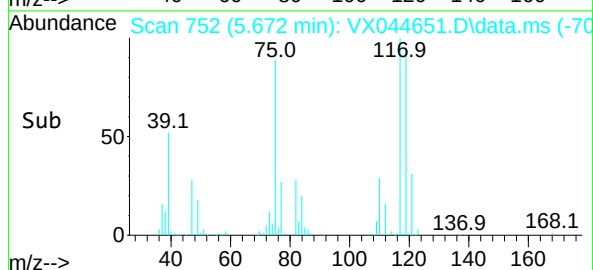
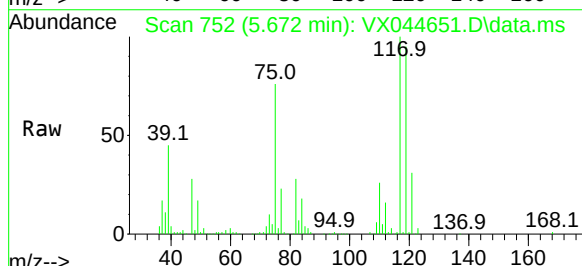
Tgt Ion:117 Resp: 161882

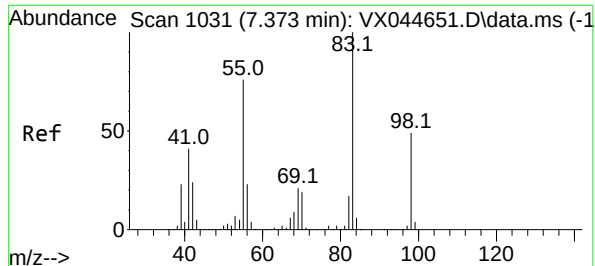
Ion Ratio Lower Upper

117 100

119 95.0 76.0 114.0

121 30.7 24.6 36.8





#39

Methylcyclohexane

Concen: 46.929 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 193759

Ion Ratio Lower Upper

83 100

55 75.6 60.5 90.7

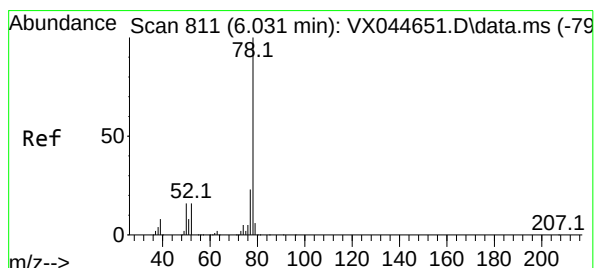
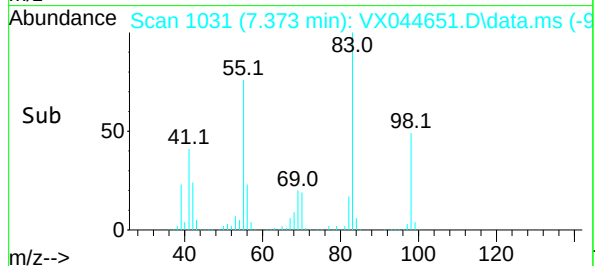
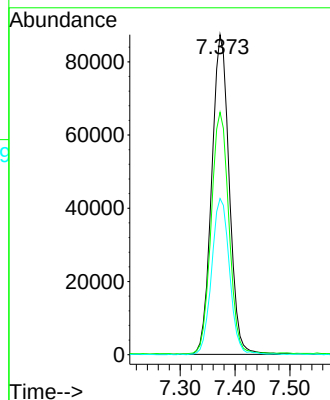
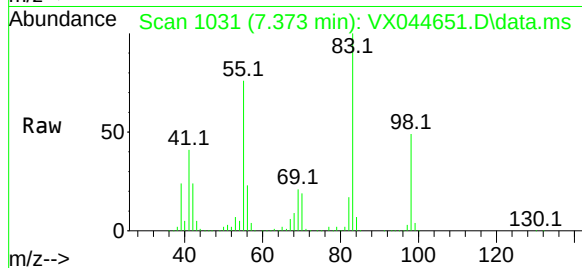
98 48.7 39.0 58.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#40

Benzene

Concen: 47.670 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044651.D

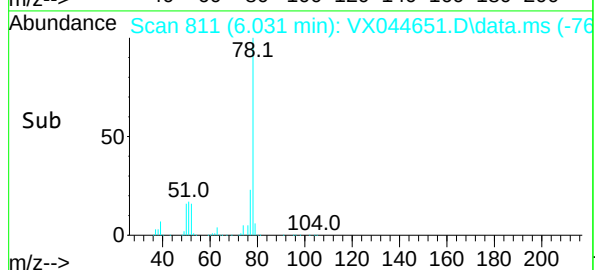
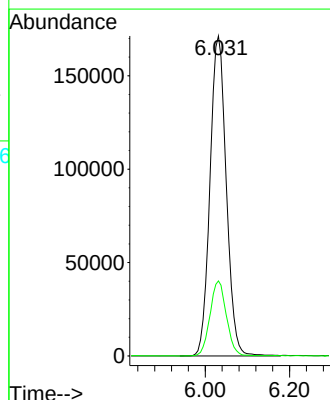
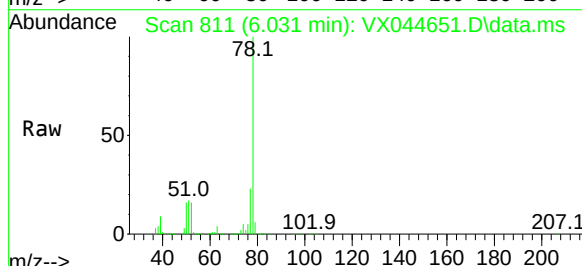
Acq: 15 Jan 2025 12:02

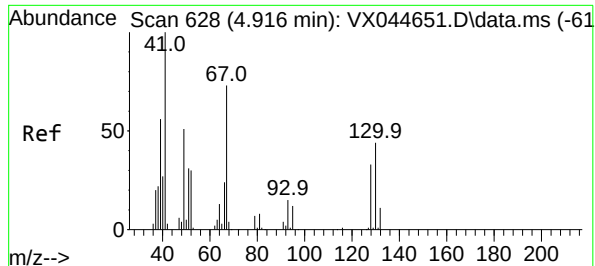
Tgt Ion: 78 Resp: 459433

Ion Ratio Lower Upper

78 100

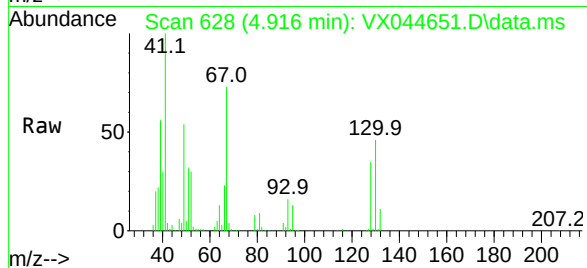
77 23.4 18.7 28.1





#41
Methacrylonitrile
Concen: 47.017 ug/l
RT: 4.916 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

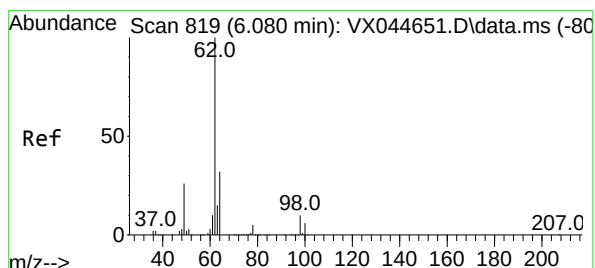
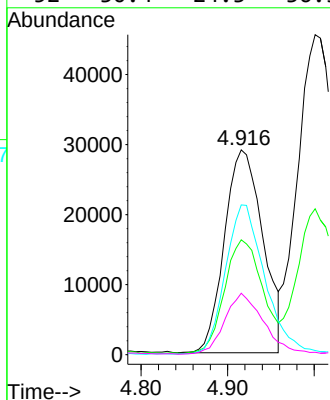
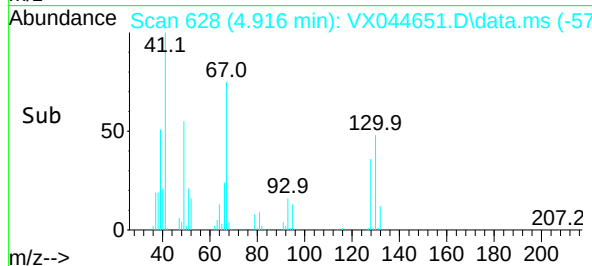
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 41 Resp: 89498
Ion Ratio Lower Upper
41 100
39 55.5 44.4 66.6
67 75.7 60.6 90.8
52 30.4 24.3 36.5

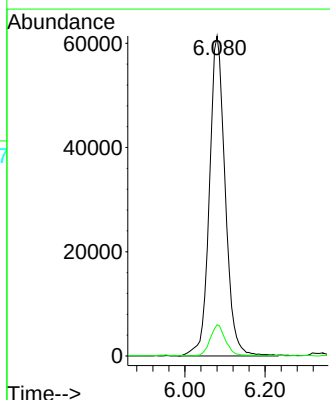
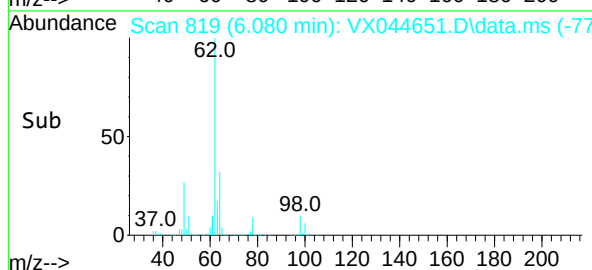
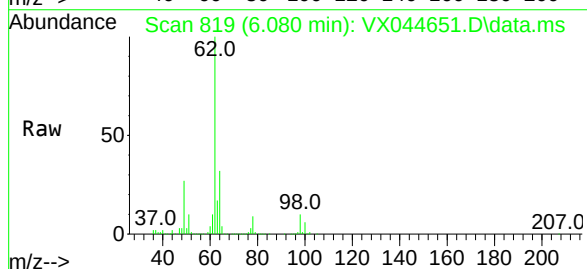
Manual Integrations
APPROVED

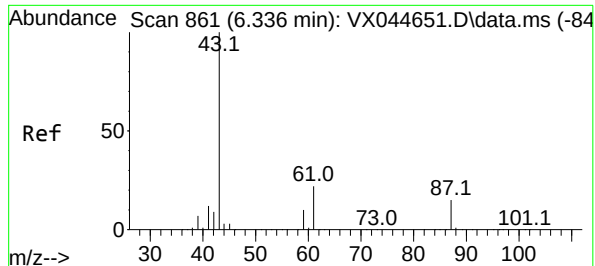
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#42
1,2-Dichloroethane
Concen: 47.725 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

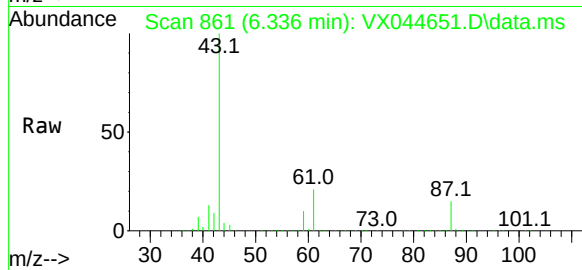
Tgt Ion: 62 Resp: 167878
Ion Ratio Lower Upper
62 100
98 9.7 0.0 19.4





#43
Isopropyl Acetate
Concen: 47.053 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

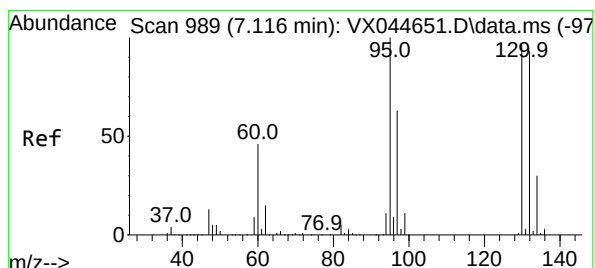
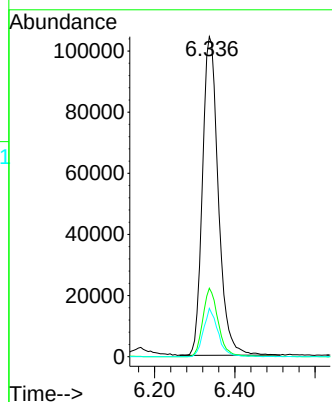
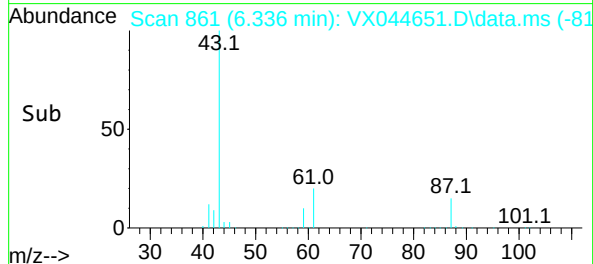
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 28669
Ion Ratio Lower Upper
43 100
61 20.7 16.6 24.8
87 13.8 11.0 16.6

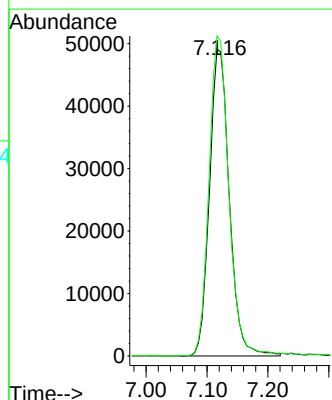
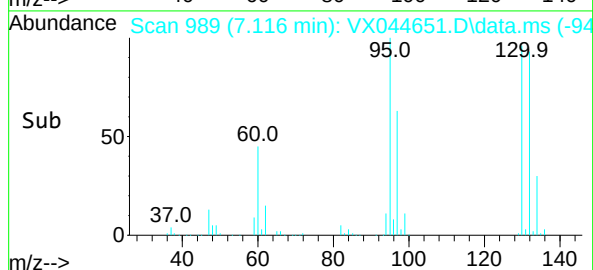
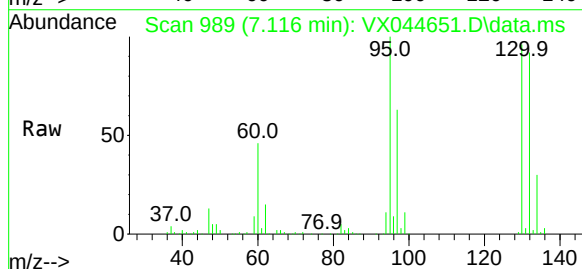
Manual Integrations
APPROVED

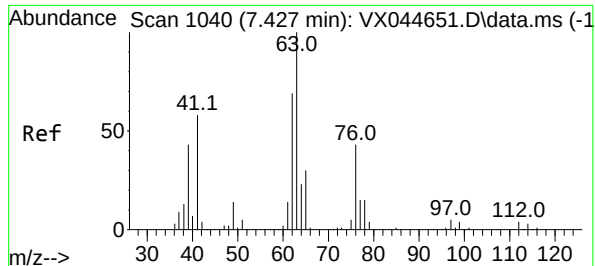
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#44
Trichloroethene
Concen: 47.956 ug/l
RT: 7.116 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:130 Resp: 111112
Ion Ratio Lower Upper
130 100
95 104.1 0.0 208.2





#45

1,2-Dichloropropane

Concen: 47.660 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 11562

Ion Ratio Lower Upper

63 100

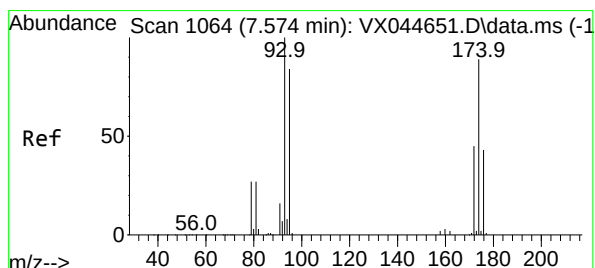
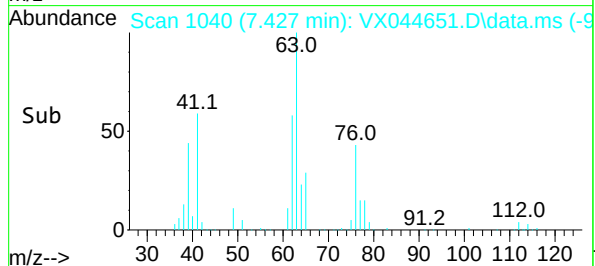
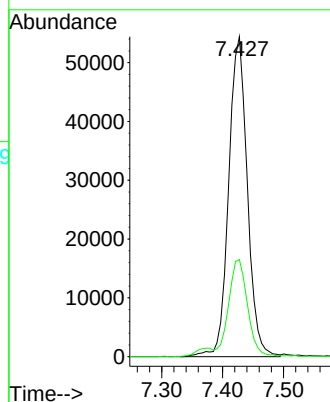
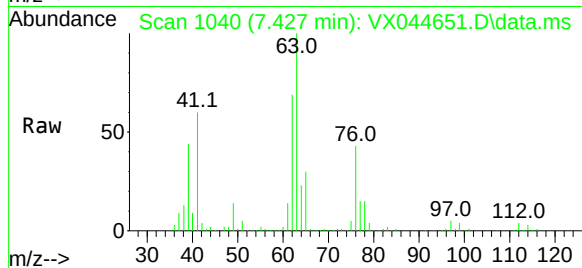
65 30.2 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#46

Dibromomethane

Concen: 46.813 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

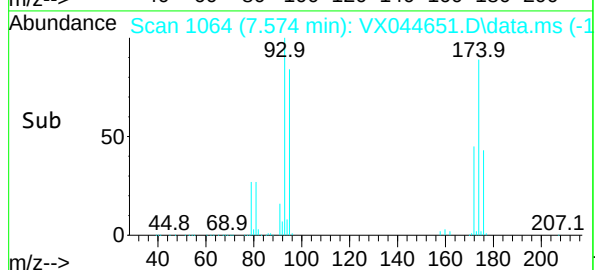
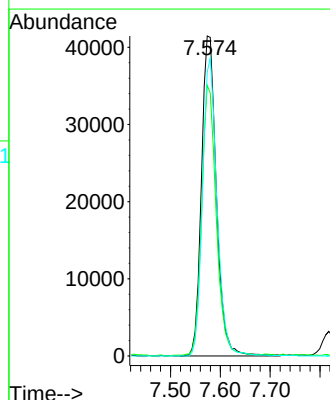
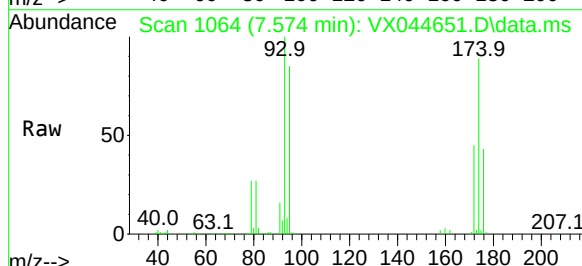
Tgt Ion: 93 Resp: 86455

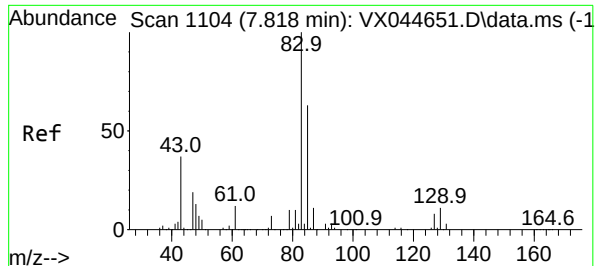
Ion Ratio Lower Upper

93 100

95 83.0 66.4 99.6

174 90.0 72.0 108.0





#47

Bromodichloromethane

Concen: 47.138 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 17853

Ion Ratio Lower Upper

83 100

85 62.6 50.1 75.1

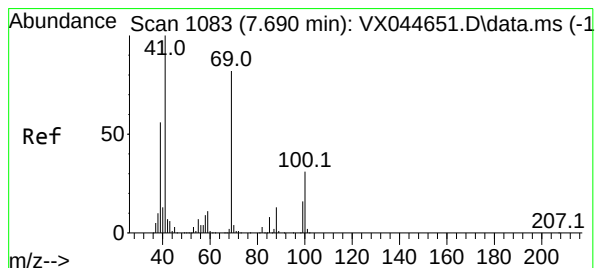
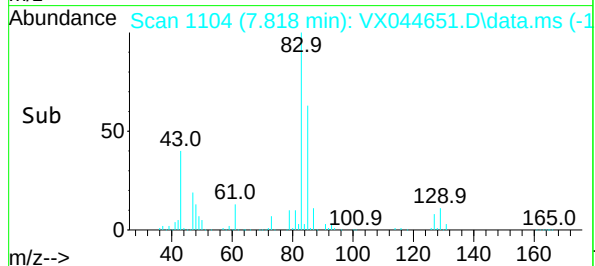
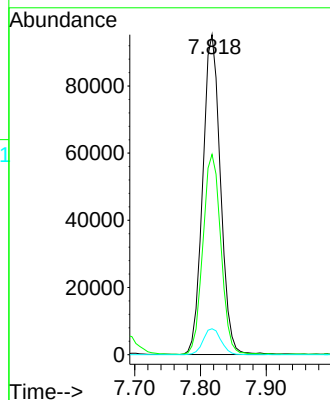
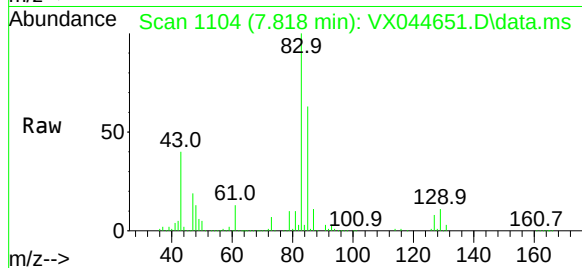
127 8.1 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#48

Methyl methacrylate

Concen: 49.659 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

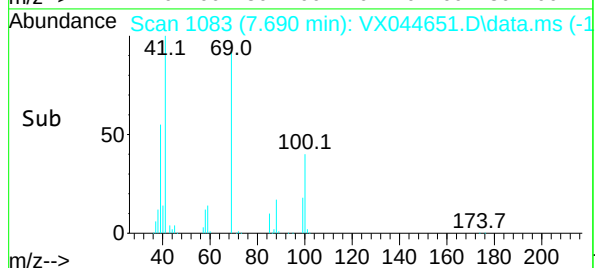
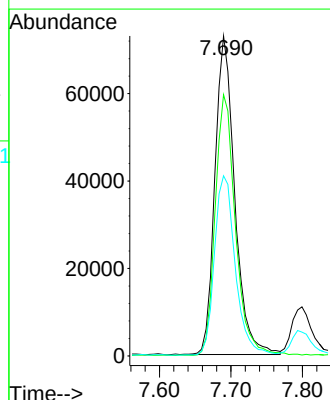
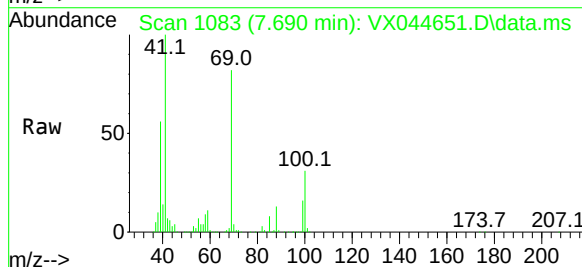
Tgt Ion: 41 Resp: 140450

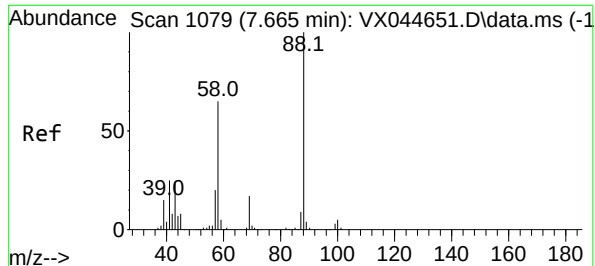
Ion Ratio Lower Upper

41 100

69 83.5 66.8 100.2

39 59.2 47.4 71.0





#49

1,4-Dioxane

Concen: 943.583 ug/l

RT: 7.665 min Scan# 1079

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

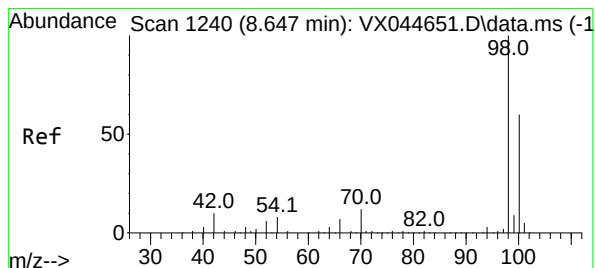
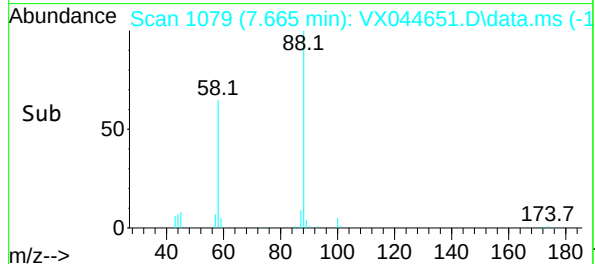
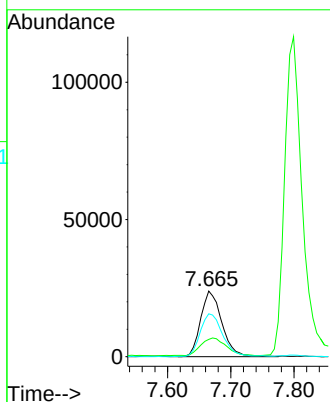
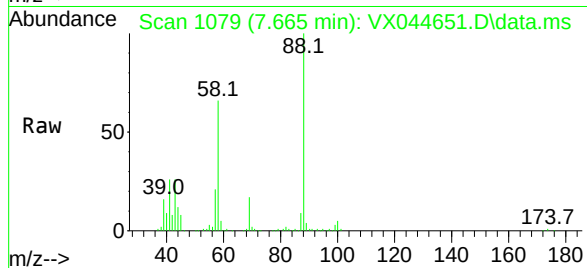
Tgt Ion:	88	Resp:	55679
Ion	Ratio	Lower	Upper
88	100		
43	33.7	27.0	40.4
58	69.8	55.8	83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#50

Toluene-d8

Concen: 50.145 ug/l

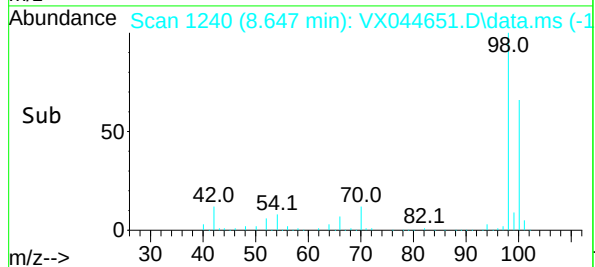
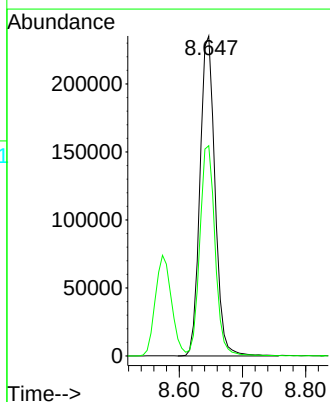
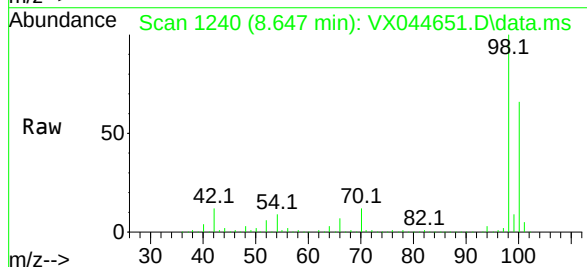
RT: 8.647 min Scan# 1240

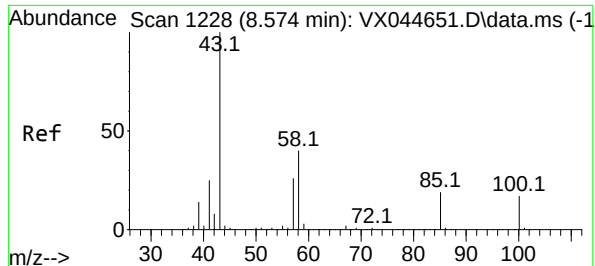
Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Tgt Ion:	98	Resp:	390660
Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.2	79.8





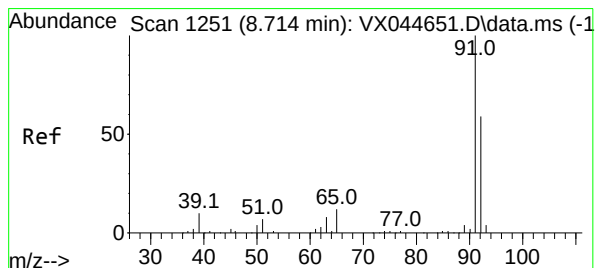
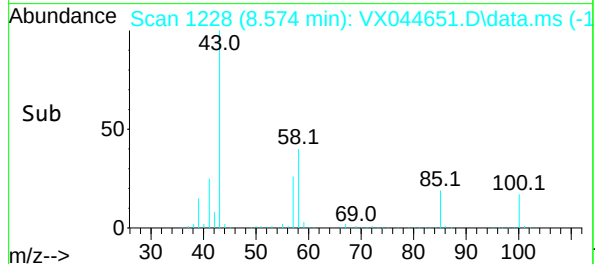
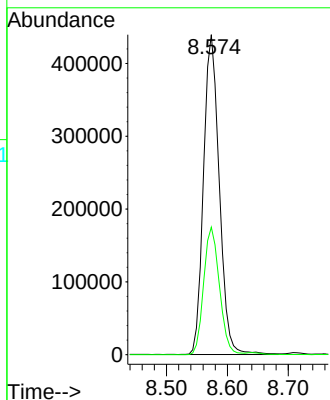
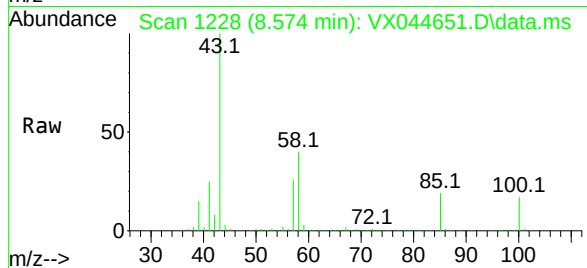
#51
4-Methyl-2-Pentanone
Concen: 234.662 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 790152
Ion Ratio Lower Upper
43 100
58 39.9 31.9 47.9

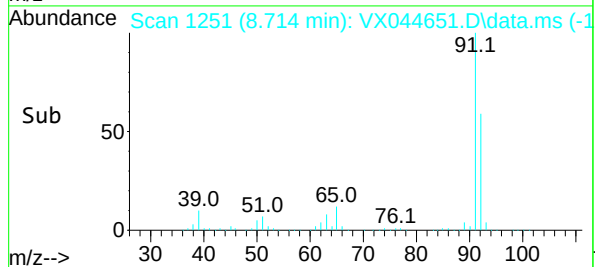
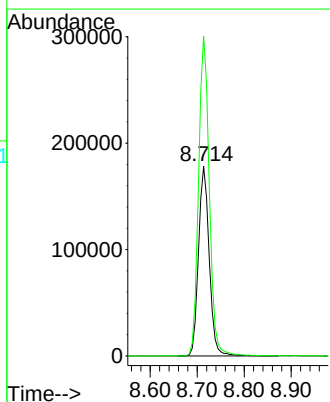
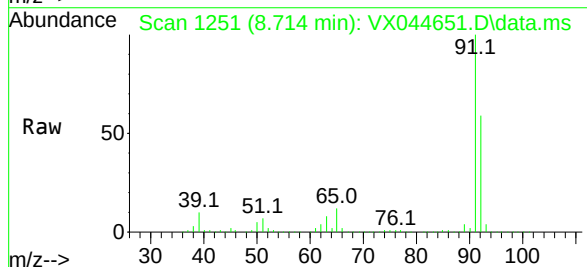
Manual Integrations
APPROVED

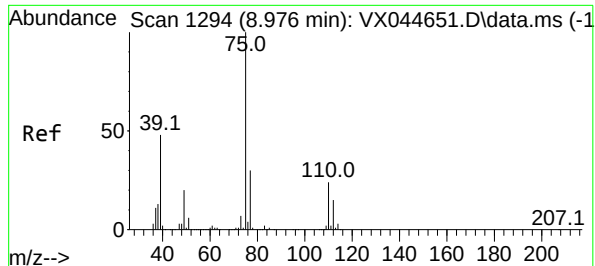
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#52
Toluene
Concen: 48.001 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 92 Resp: 283156
Ion Ratio Lower Upper
92 100
91 169.6 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 49.036 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 191870

Ion Ratio Lower Upper

75 100

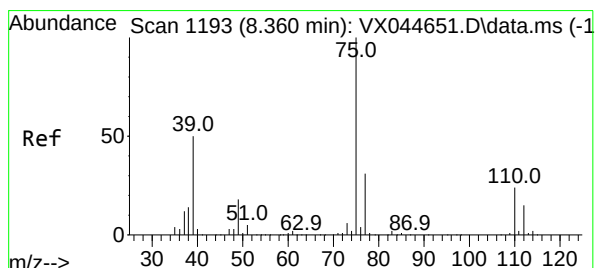
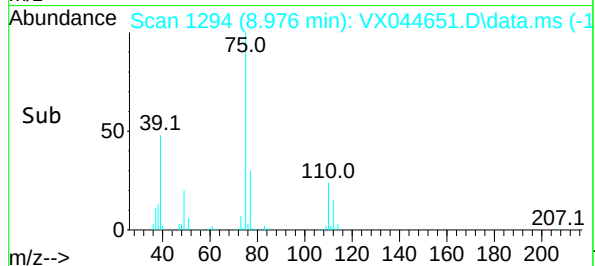
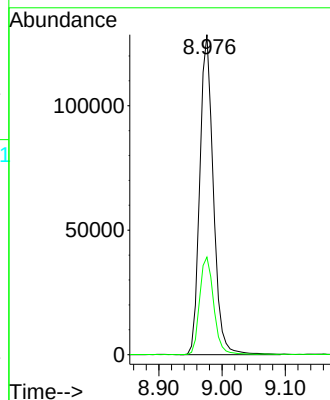
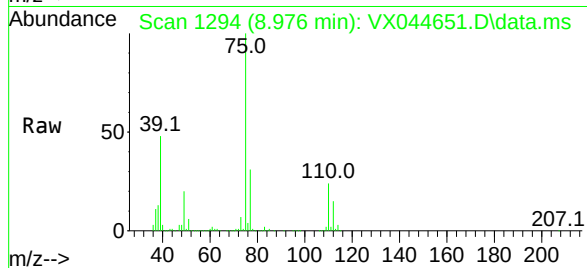
77 30.5 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#54

cis-1,3-Dichloropropene

Concen: 47.563 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

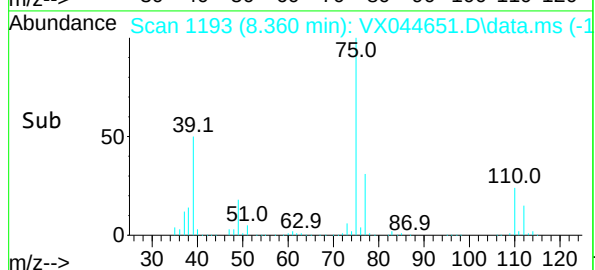
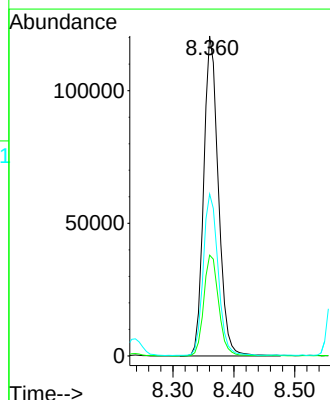
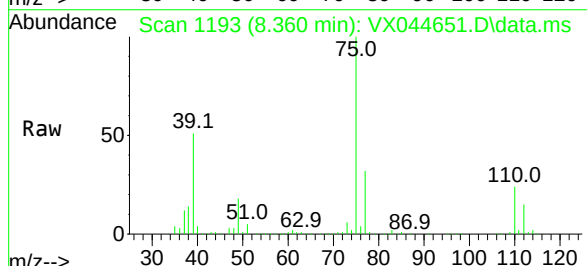
Tgt Ion: 75 Resp: 201804

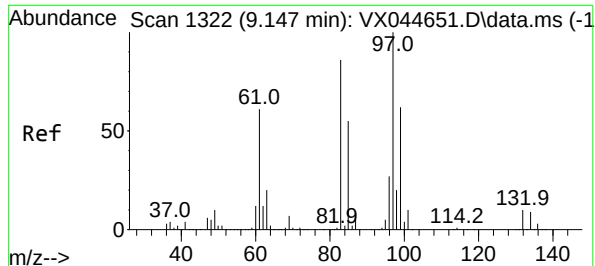
Ion Ratio Lower Upper

75 100

77 31.4 25.1 37.7

39 50.4 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 47.043 ug/l

RT: 9.147 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 112274

Ion Ratio Lower Upper

97 100

83 86.0 68.8 103.2

85 54.6 43.7 65.5

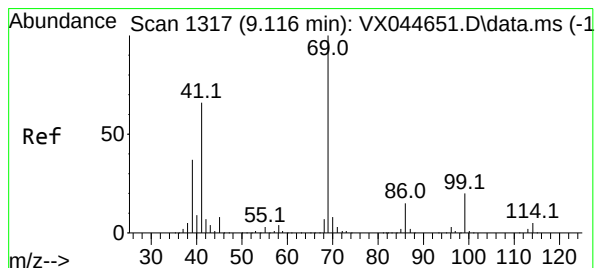
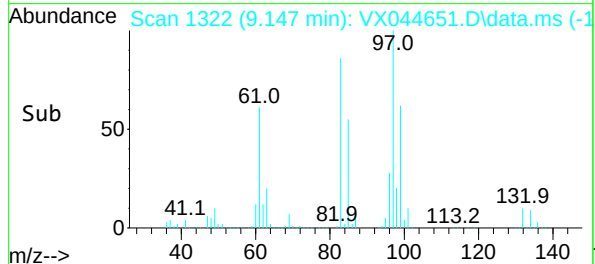
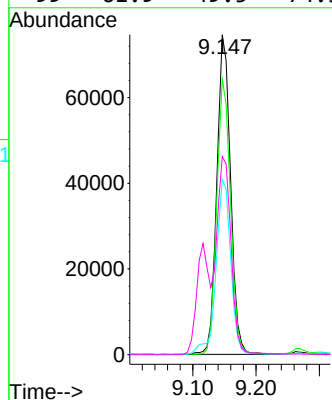
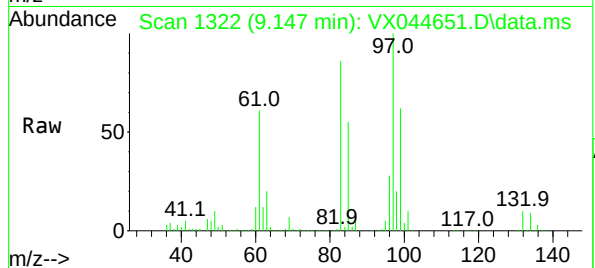
99 61.9 49.5 74.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#56

Ethyl methacrylate

Concen: 48.353 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

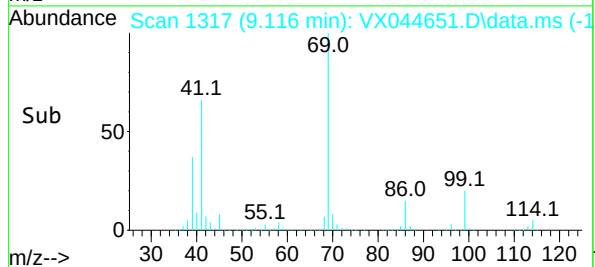
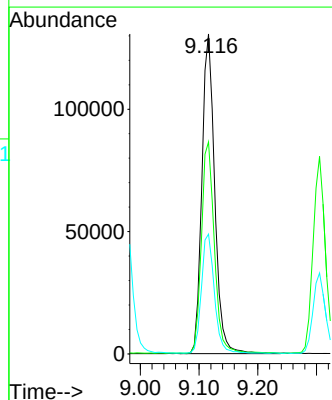
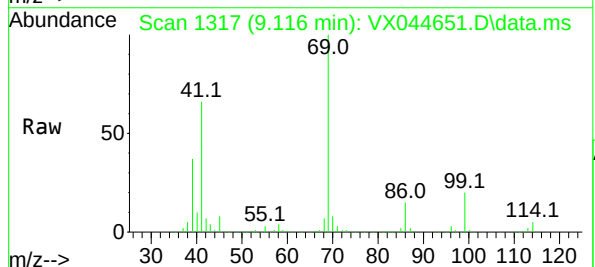
Tgt Ion: 69 Resp: 198422

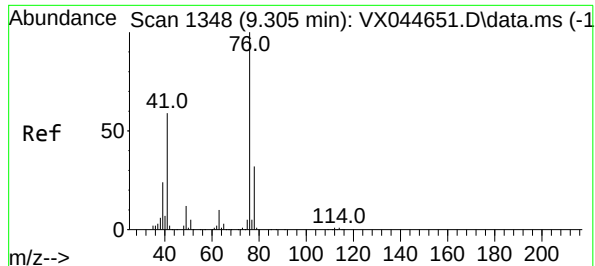
Ion Ratio Lower Upper

69 100

41 66.5 53.2 79.8

39 37.7 30.2 45.2





#57

1,3-Dichloropropane

Concen: 48.025 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 19518

Ion Ratio Lower Upper

76 100

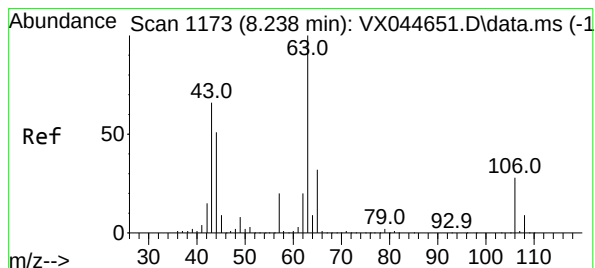
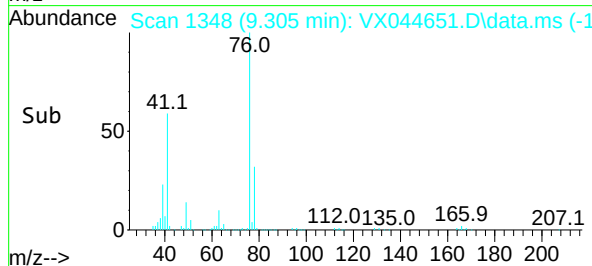
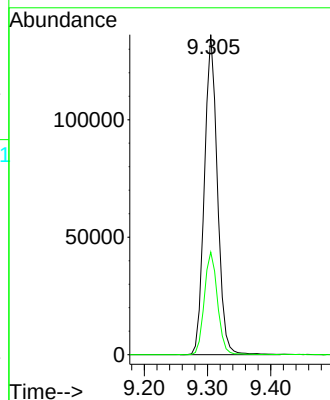
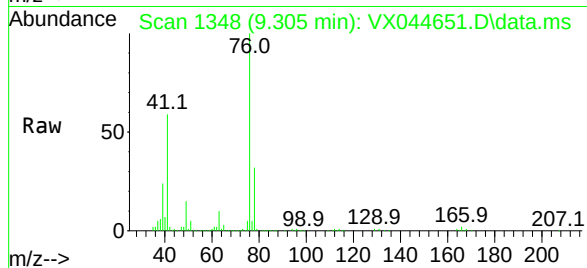
78 32.5 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 238.018 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044651.D

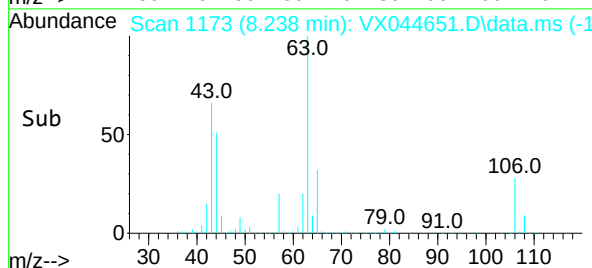
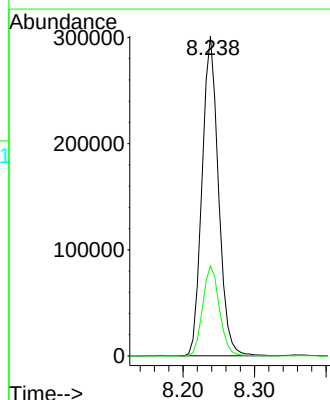
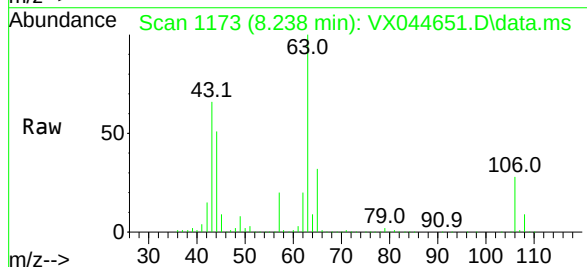
Acq: 15 Jan 2025 12:02

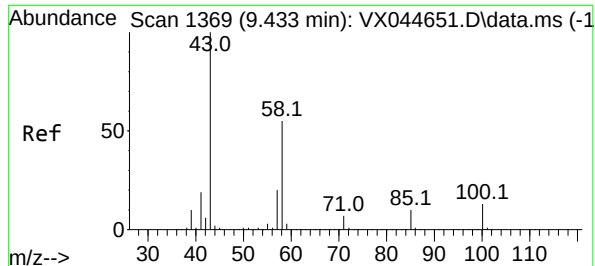
Tgt Ion: 63 Resp: 479521

Ion Ratio Lower Upper

63 100

106 28.8 23.0 34.6





#59

2-Hexanone

Concen: 234.142 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 580029

Ion Ratio Lower Upper

43 100

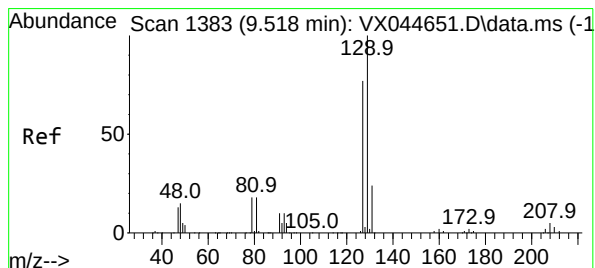
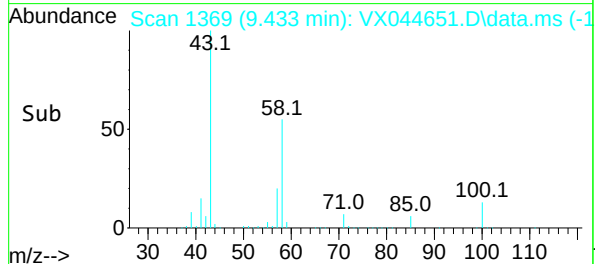
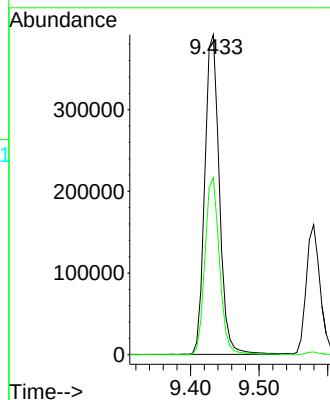
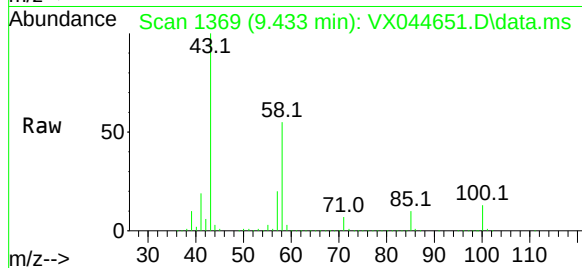
58 55.5 27.8 83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#60

Dibromochloromethane

Concen: 47.816 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044651.D

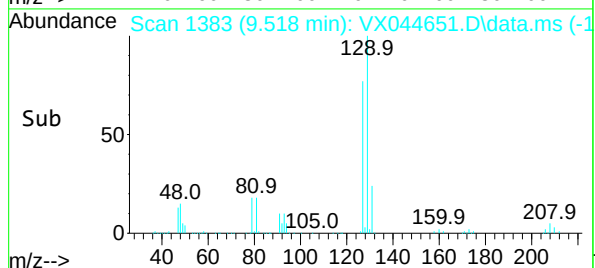
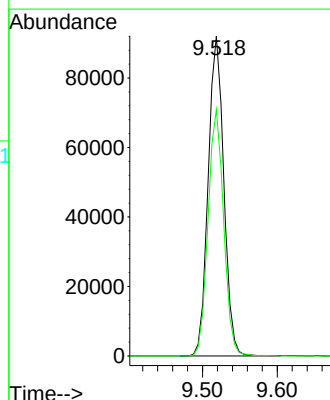
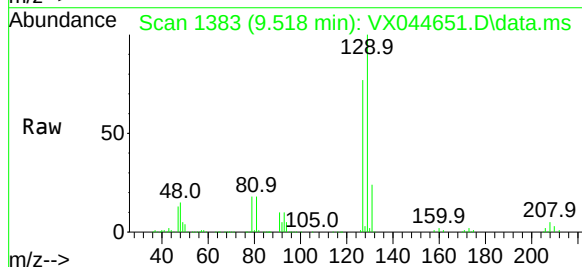
Acq: 15 Jan 2025 12:02

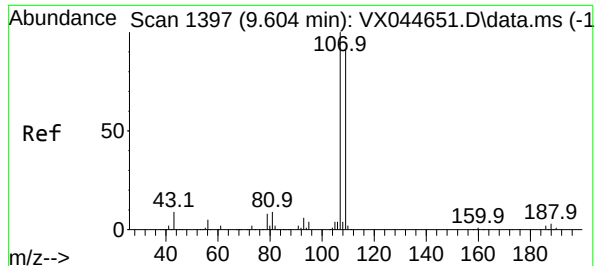
Tgt Ion:129 Resp: 133941

Ion Ratio Lower Upper

129 100

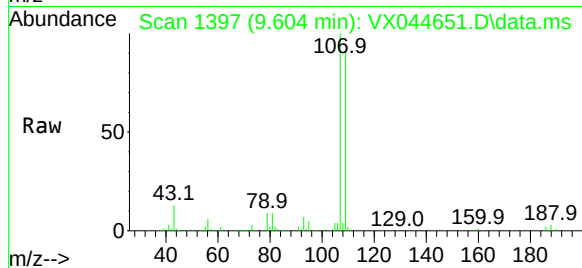
127 77.0 38.5 115.5





#61
1,2-Dibromoethane
Concen: 47.331 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

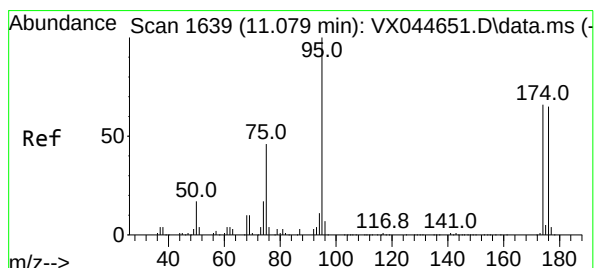
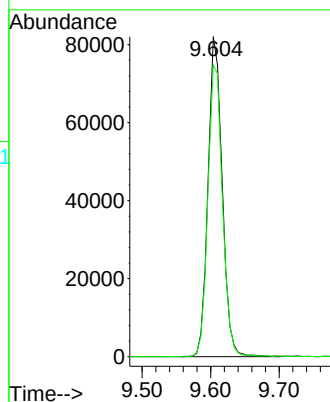
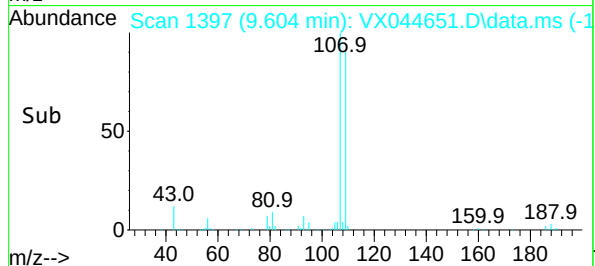
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:107 Resp: 11838
Ion Ratio Lower Upper
107 100
109 94.1 75.3 112.9

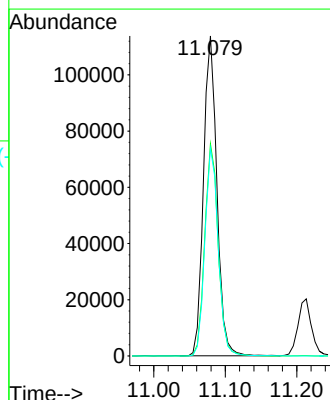
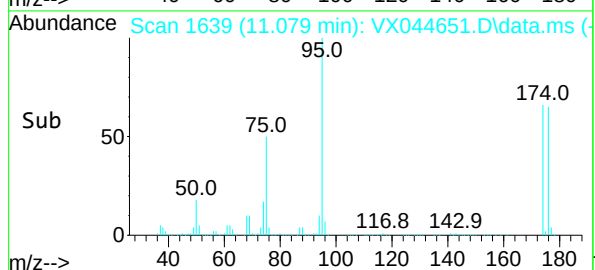
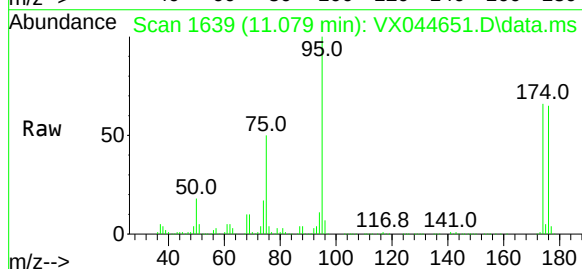
Manual Integrations
APPROVED

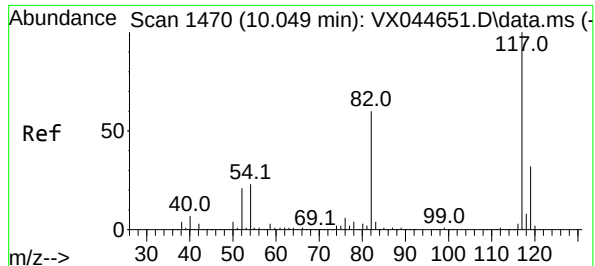
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#62
4-Bromofluorobenzene
Concen: 51.037 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

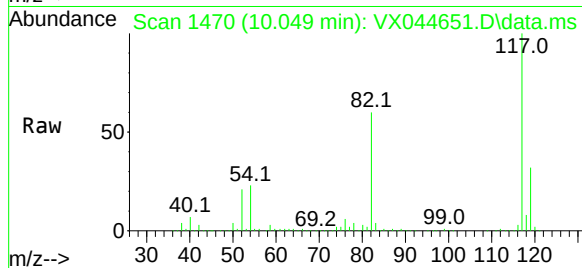
Tgt Ion: 95 Resp: 148223
Ion Ratio Lower Upper
95 100
174 66.5 0.0 133.0
176 64.7 0.0 129.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

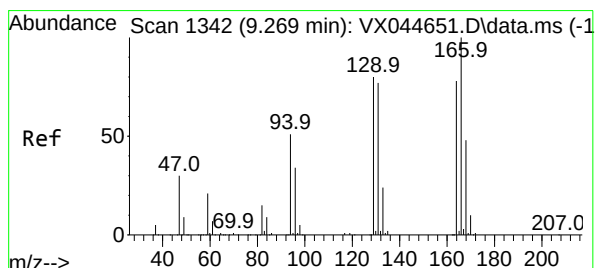
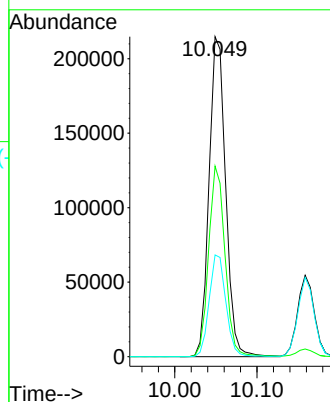
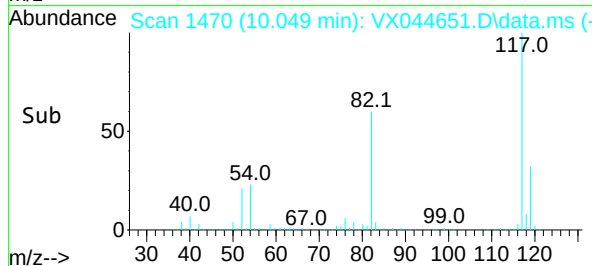
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:117 Resp: 30114
Ion Ratio Lower Upper
117 100
82 59.5 47.6 71.4
119 31.8 25.4 38.2

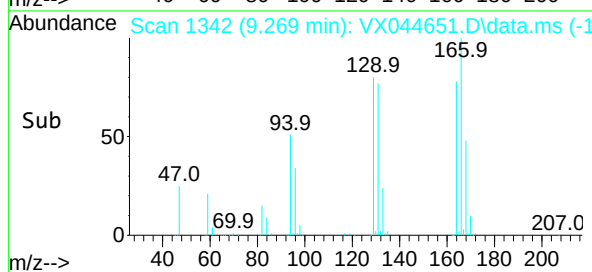
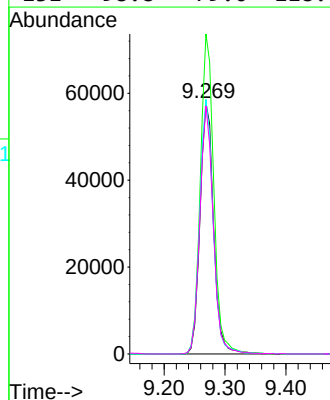
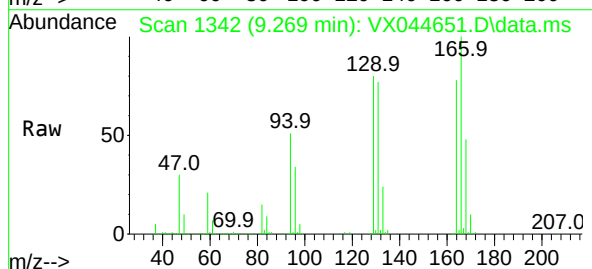
Manual Integrations
APPROVED

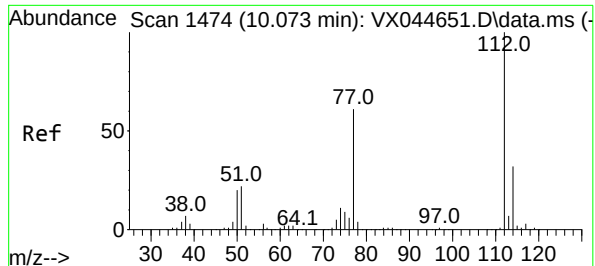
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#64
Tetrachloroethene
Concen: 47.145 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

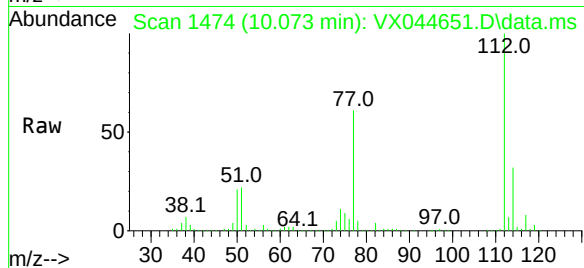
Tgt Ion:164 Resp: 89149
Ion Ratio Lower Upper
164 100
166 127.5 102.0 153.0
129 101.4 81.1 121.7
131 98.8 79.0 118.6





#65
Chlorobenzene
Concen: 47.474 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

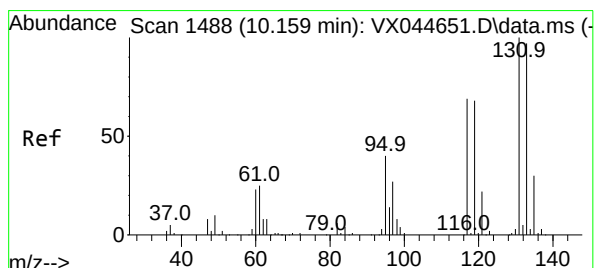
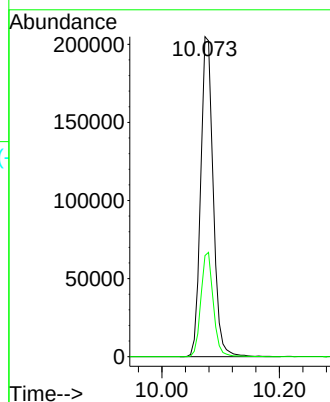
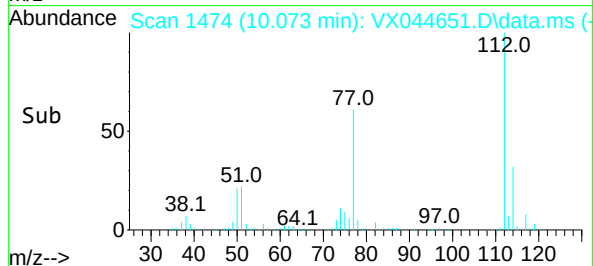
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



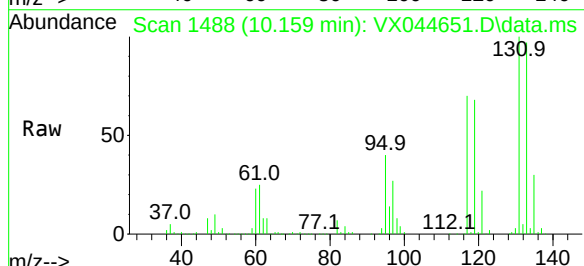
Tgt Ion:112 Resp: 303658
Ion Ratio Lower Upper
112 100
114 31.6 25.3 37.9

Manual Integrations
APPROVED

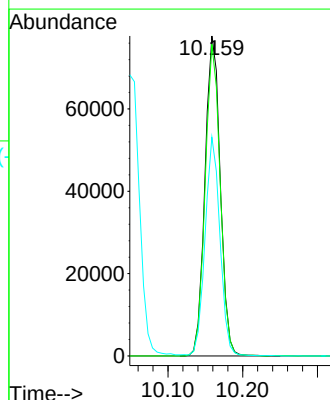
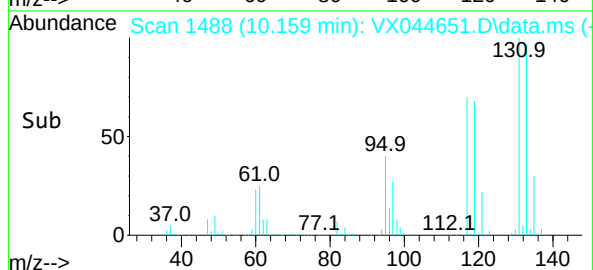
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

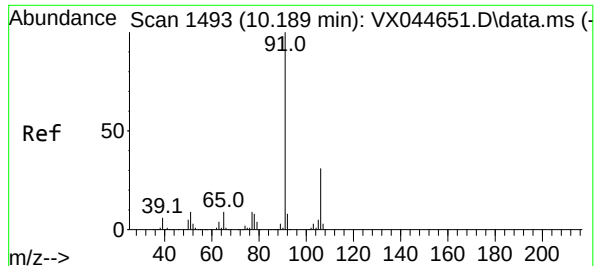


#66
1,1,1,2-Tetrachloroethane
Concen: 47.490 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02



Tgt Ion:131 Resp: 110395
Ion Ratio Lower Upper
131 100
133 95.5 47.8 143.3
119 66.8 33.4 100.2





#67

Ethyl Benzene

Concen: 48.000 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 535714

Ion Ratio Lower Upper

91 100

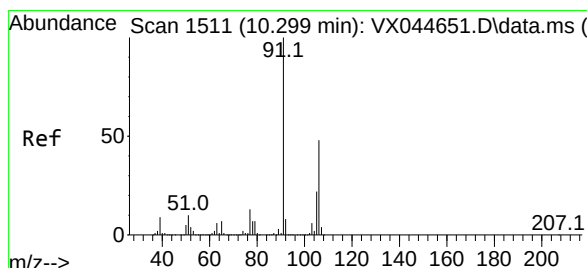
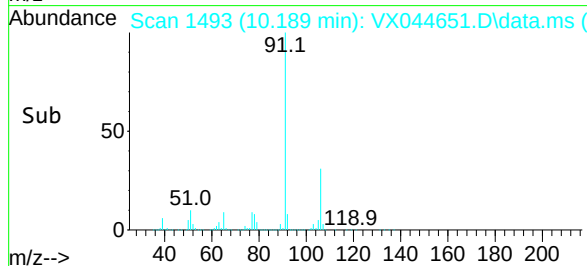
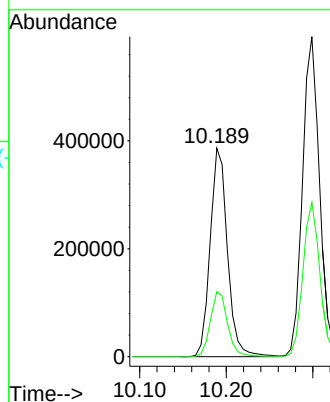
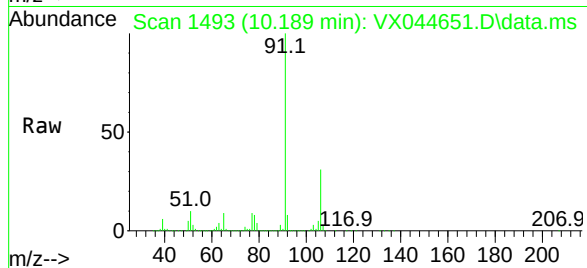
106 31.3 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#68

m/p-Xylenes

Concen: 95.393 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044651.D

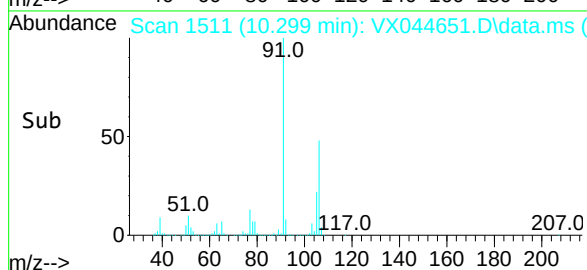
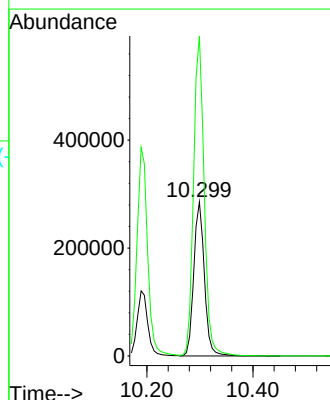
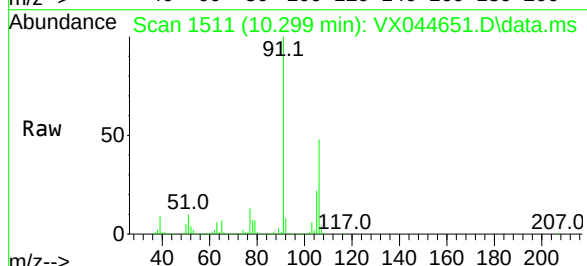
Acq: 15 Jan 2025 12:02

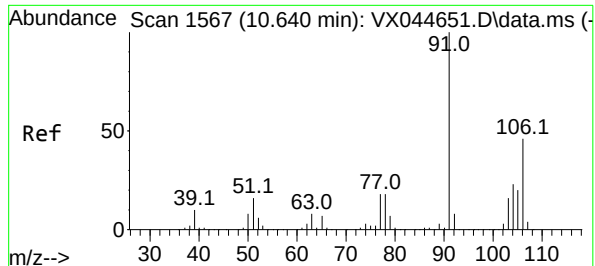
Tgt Ion:106 Resp: 395084

Ion Ratio Lower Upper

106 100

91 208.0 166.4 249.6





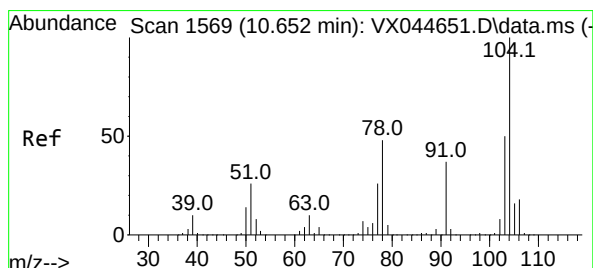
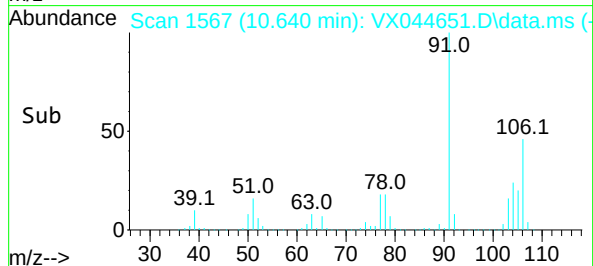
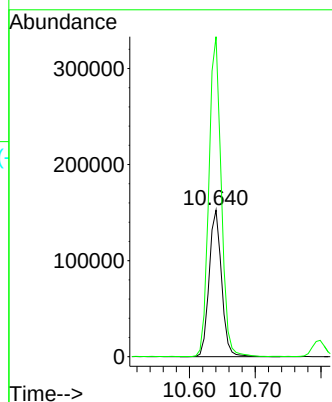
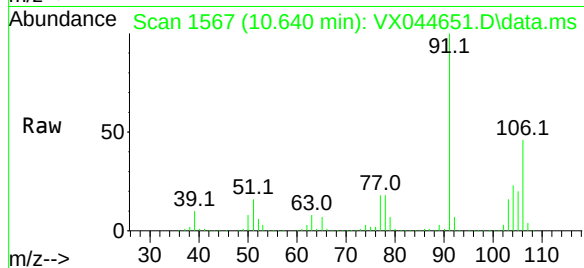
#69
o-Xylene
Concen: 47.845 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 200390
Ion Ratio Lower Upper
106 100
91 217.5 108.7 326.3

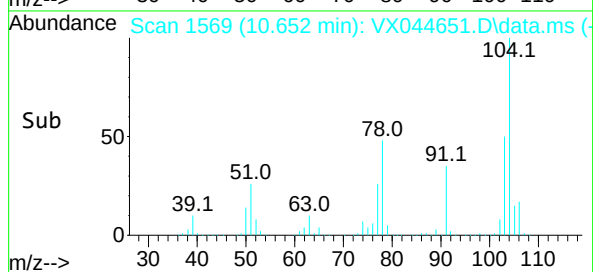
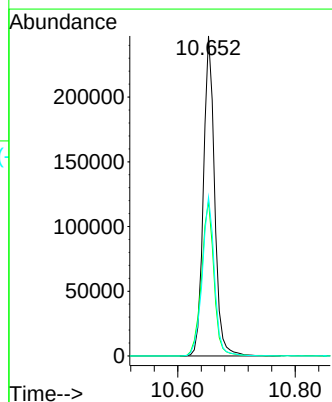
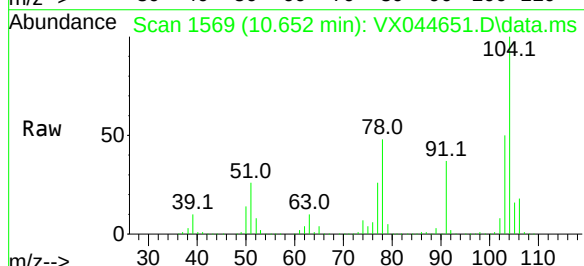
Manual Integrations
APPROVED

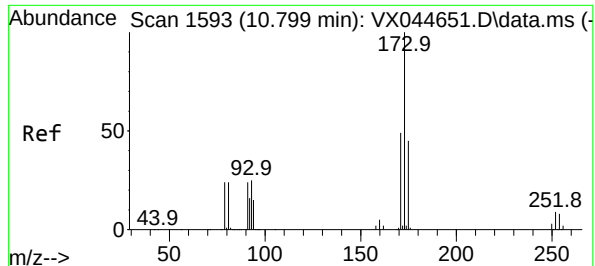
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#70
Styrene
Concen: 48.481 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

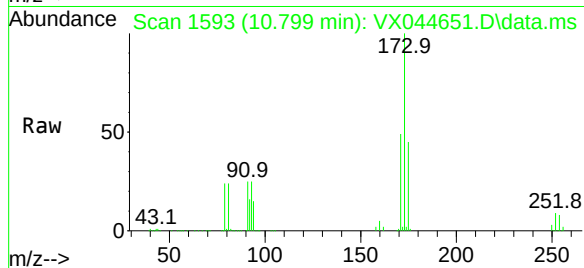
Tgt Ion:104 Resp: 327844
Ion Ratio Lower Upper
104 100
78 53.8 43.0 64.6
103 54.3 43.4 65.2





#71
Bromoform
Concen: 48.011 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

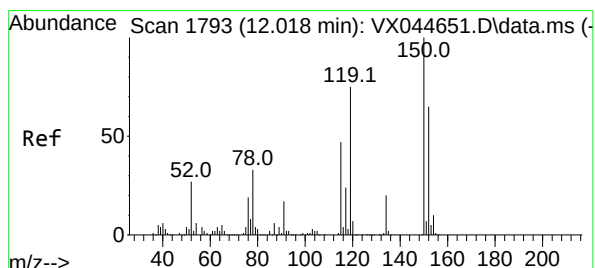
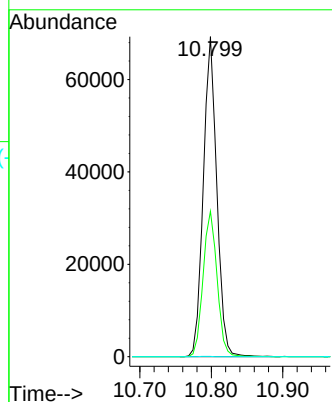
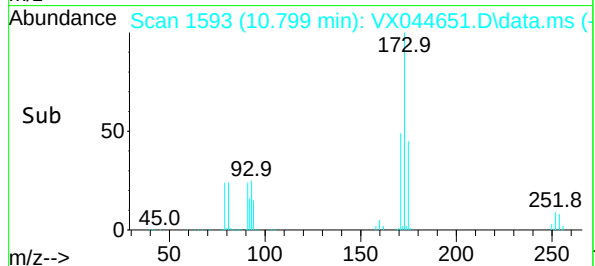
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:173 Resp: 9083
Ion Ratio Lower Upper
173 100
175 47.2 23.6 70.8
254 0.1 0.1 0.1

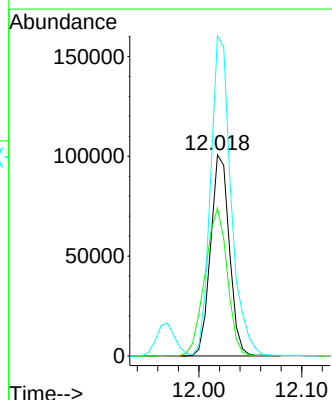
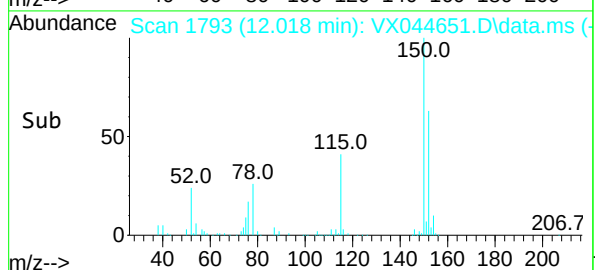
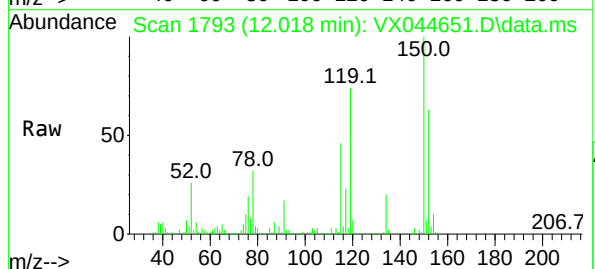
Manual Integrations
APPROVED

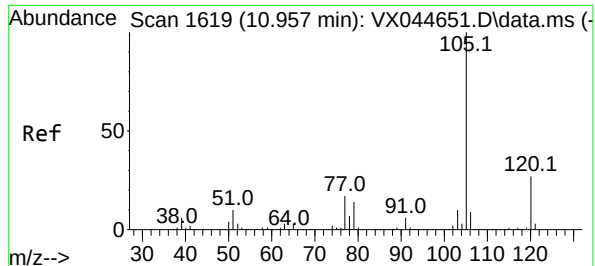
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:152 Resp: 127832
Ion Ratio Lower Upper
152 100
115 87.6 43.8 131.4
150 173.9 0.0 347.8





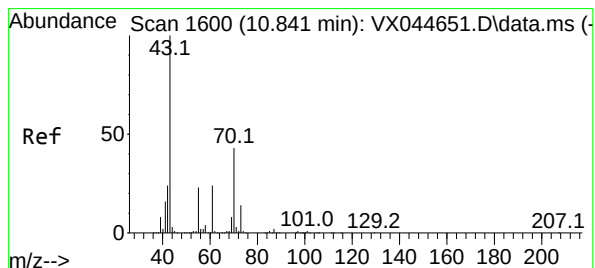
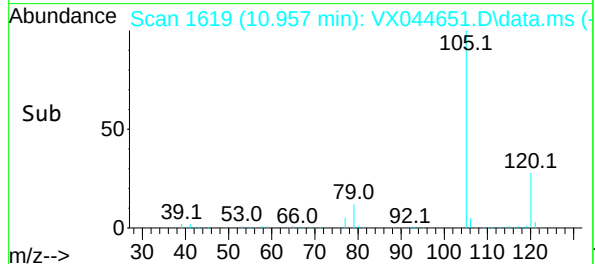
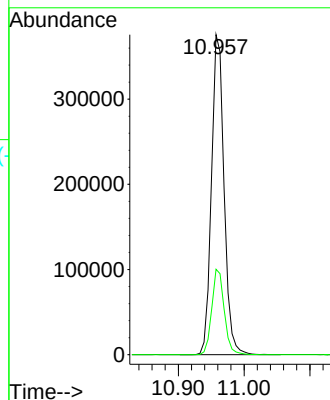
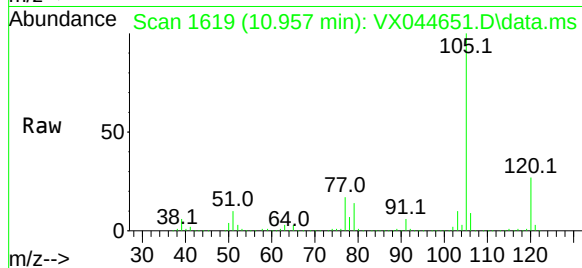
#73
Isopropylbenzene
Concen: 47.943 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 500669
Ion Ratio Lower Upper
105 100
120 26.4 13.2 39.6

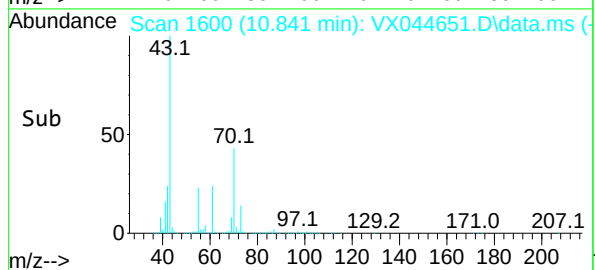
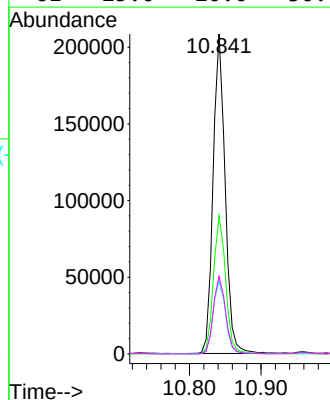
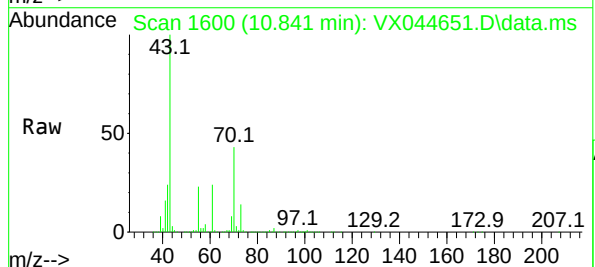
Manual Integrations
APPROVED

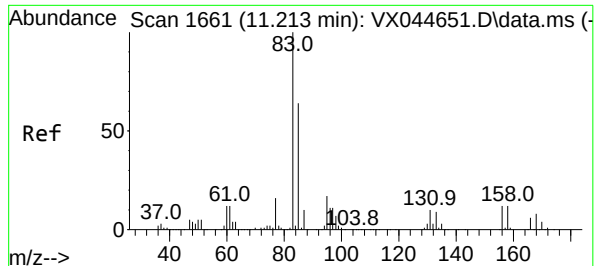
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#74
N-ethyl acetate
Concen: 47.188 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

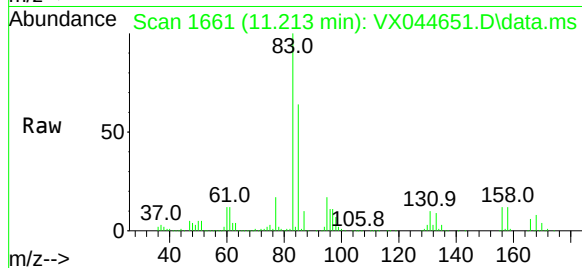
Tgt Ion: 43 Resp: 242893
Ion Ratio Lower Upper
43 100
70 44.0 35.2 52.8
55 23.7 19.0 28.4
61 25.0 20.0 30.0





#75
1,1,2,2-Tetrachloroethane
Concen: 46.155 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

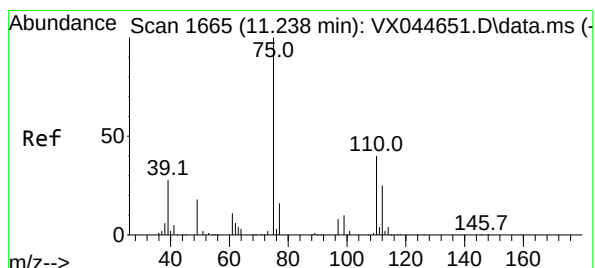
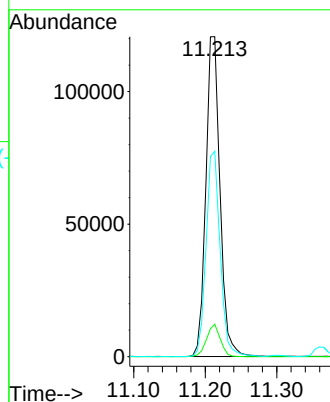
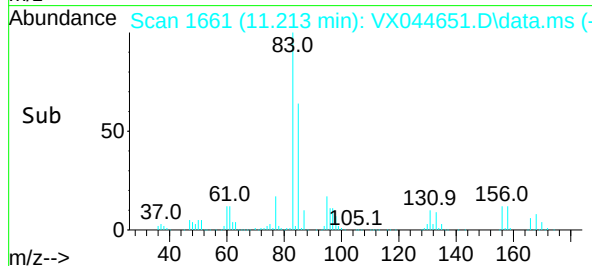
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 83 Resp: 166468
Ion Ratio Lower Upper
83 100
131 9.9 5.0 14.9
85 64.1 32.0 96.2

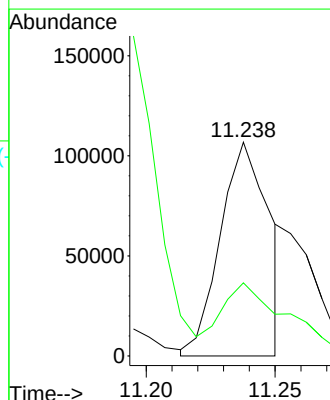
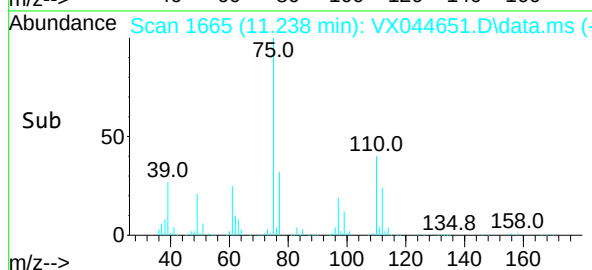
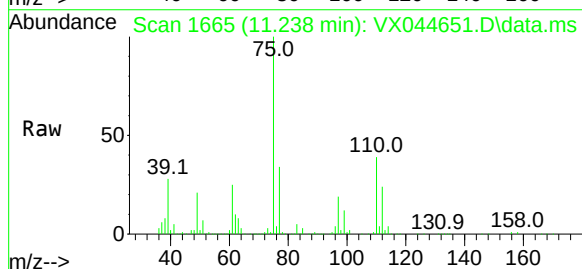
Manual Integrations
APPROVED

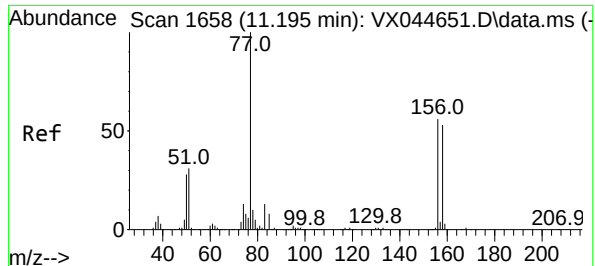
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#76
1,2,3-Trichloropropane
Concen: 46.648 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

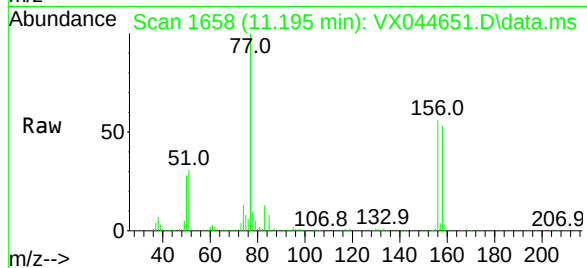
Tgt Ion: 75 Resp: 140834
Ion Ratio Lower Upper
75 100
77 46.8 23.4 70.2





#77
Bromobenzene
Concen: 47.268 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

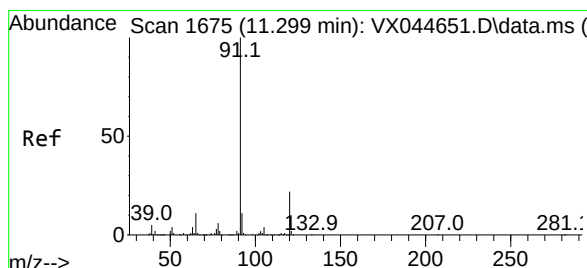
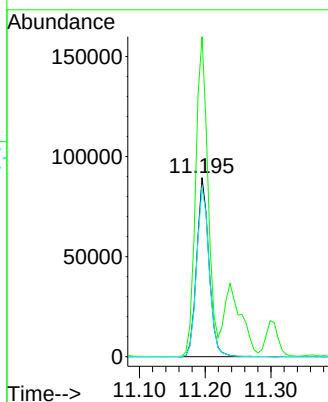
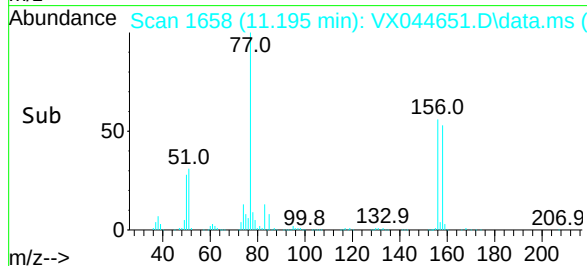
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 156 Resp: 11537
Ion Ratio Lower Upper
156 100
77 180.7 90.3 271.0
158 96.9 48.4 145.3

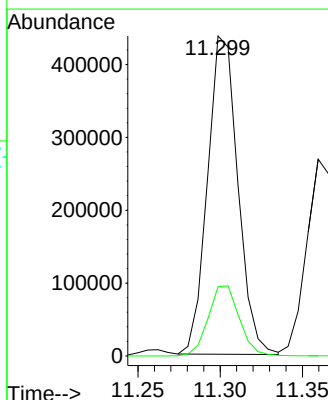
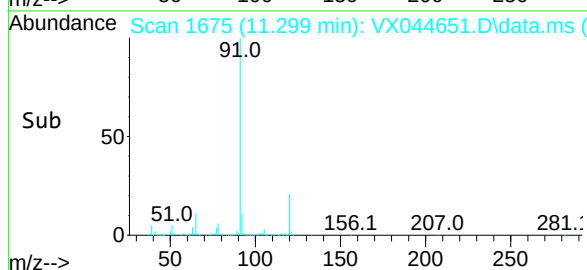
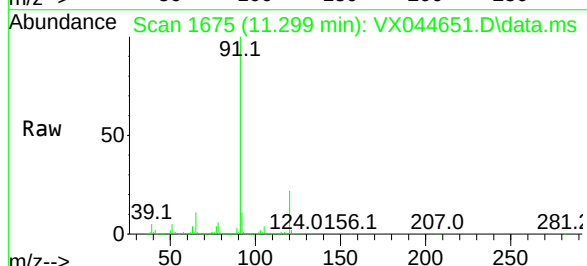
Manual Integrations
APPROVED

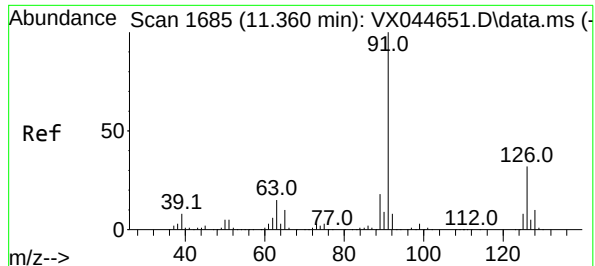
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#78
n-propylbenzene
Concen: 48.746 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 91 Resp: 561396
Ion Ratio Lower Upper
91 100
120 22.7 11.4 34.1





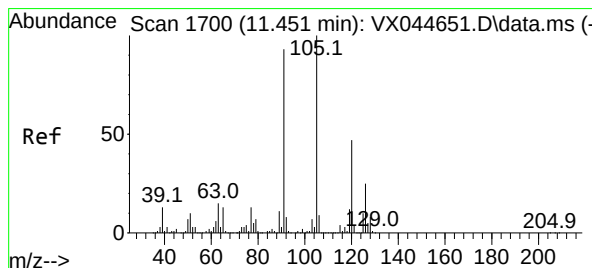
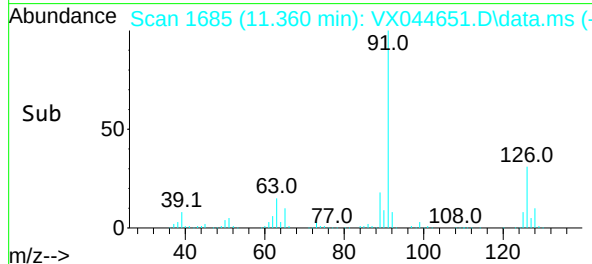
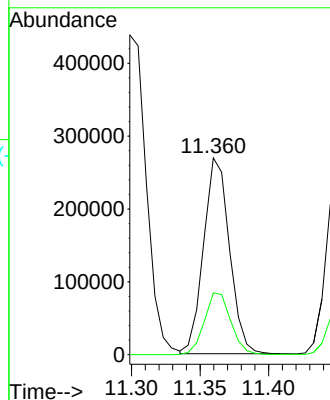
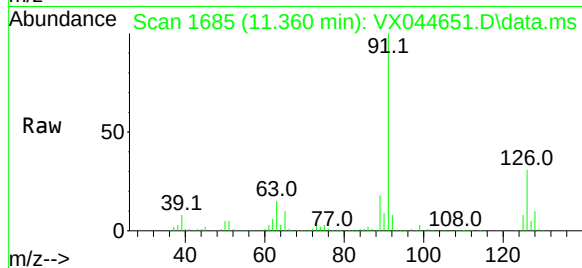
#79
2-Chlorotoluene
Concen: 47.474 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 91 Resp: 353178
Ion Ratio Lower Upper
91 100
126 32.3 16.2 48.5

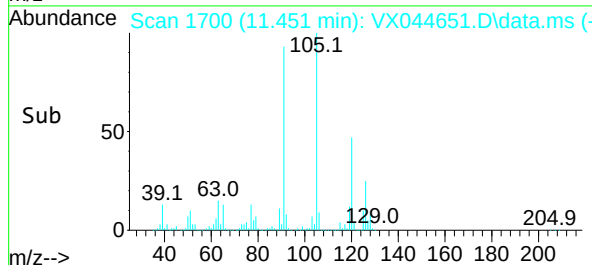
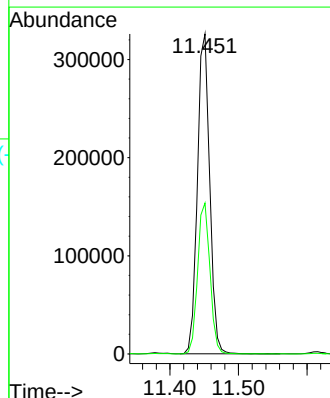
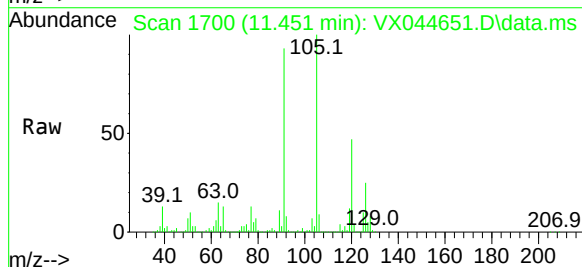
Manual Integrations
APPROVED

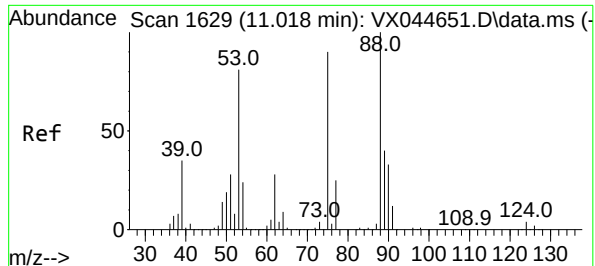
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#80
1,3,5-Trimethylbenzene
Concen: 47.918 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:105 Resp: 407362
Ion Ratio Lower Upper
105 100
120 47.4 23.7 71.1





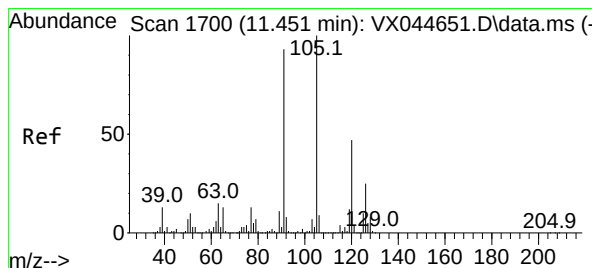
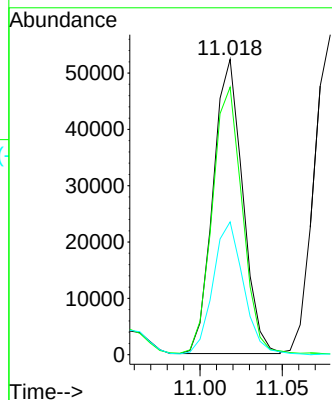
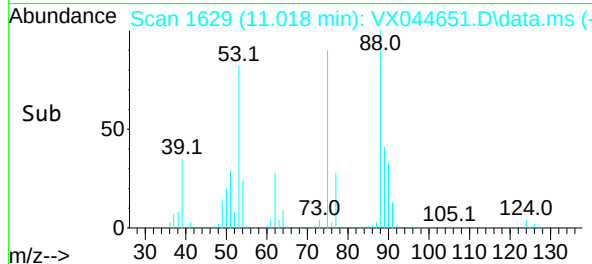
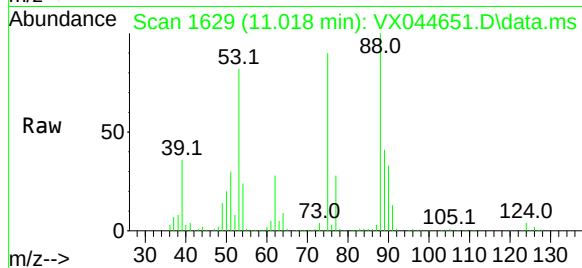
#81
trans-1,4-Dichloro-2-butene
Concen: 48.266 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 65470
Ion Ratio Lower Upper
75 100
53 92.9 74.3 111.5
89 46.7 37.4 56.0

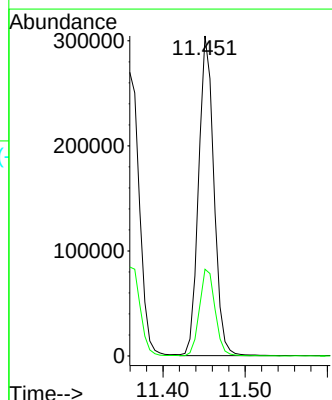
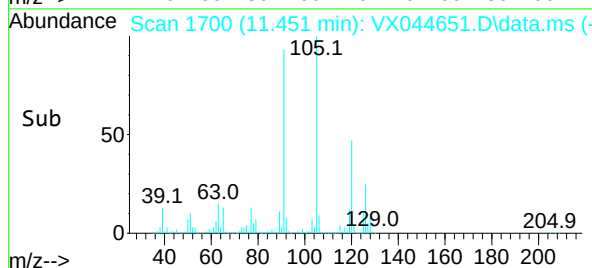
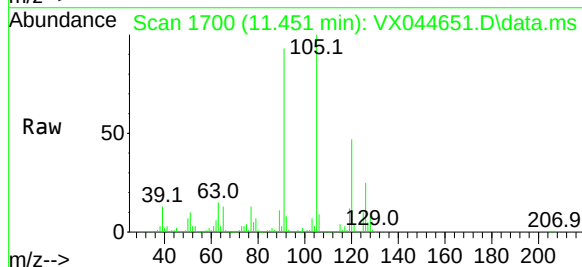
Manual Integrations
APPROVED

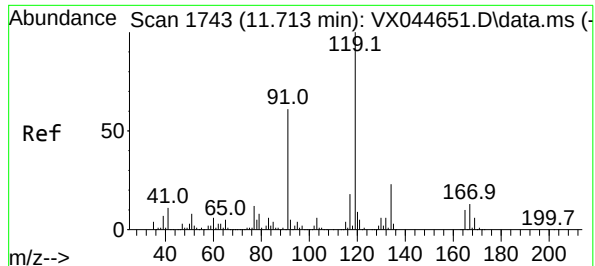
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#82
4-Chlorotoluene
Concen: 48.238 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

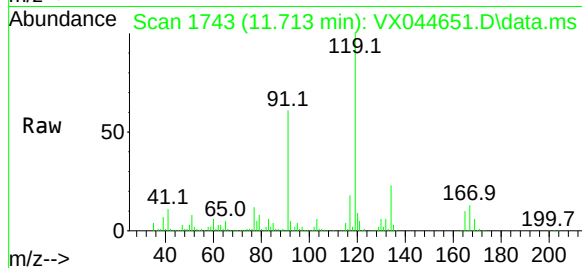
Tgt Ion: 91 Resp: 393120
Ion Ratio Lower Upper
91 100
126 27.8 13.9 41.7





#83
tert-Butylbenzene
Concen: 47.513 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

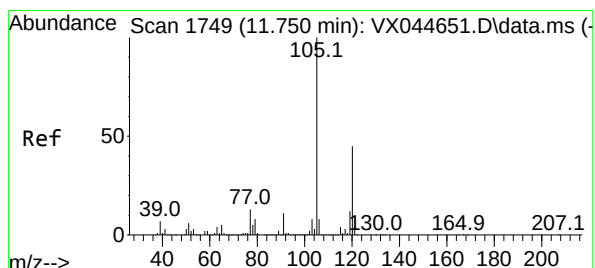
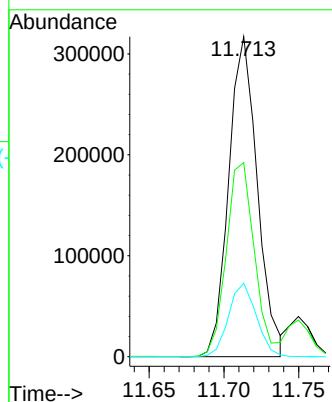
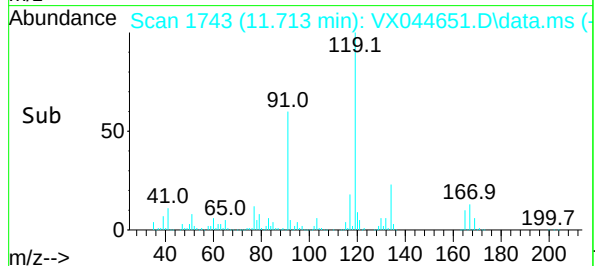
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



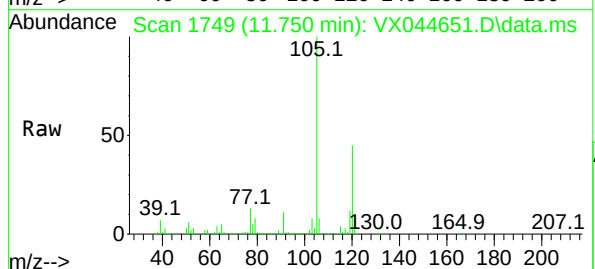
Tgt Ion:119 Resp: 422348
Ion Ratio Lower Upper
119 100
91 60.0 30.0 90.0
134 22.3 11.2 33.5

Manual Integrations
APPROVED

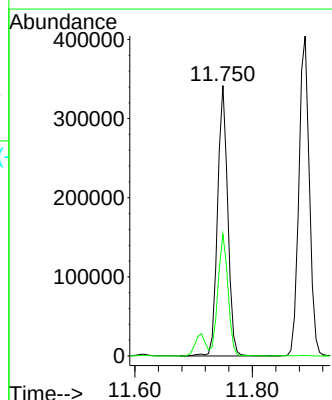
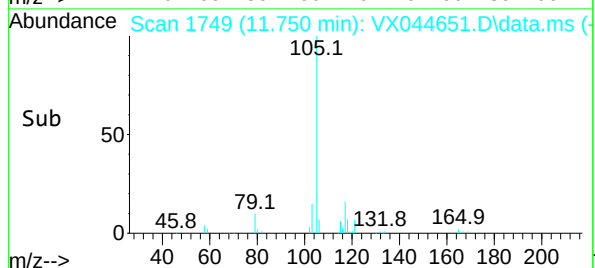
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

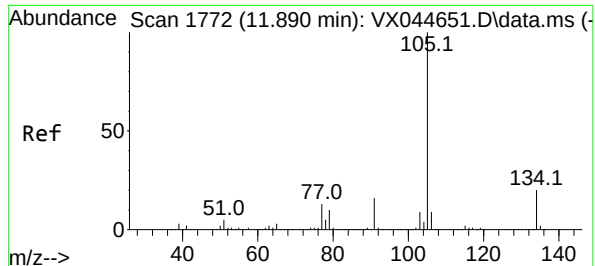


#84
1,2,4-Trimethylbenzene
Concen: 47.515 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02



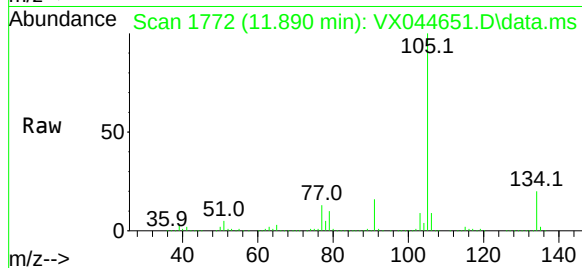
Tgt Ion:105 Resp: 410477
Ion Ratio Lower Upper
105 100
120 44.4 22.2 66.6





#85
sec-Butylbenzene
Concen: 48.113 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

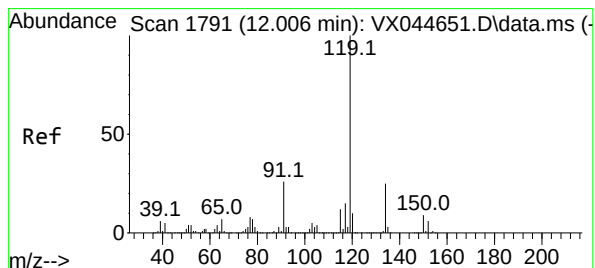
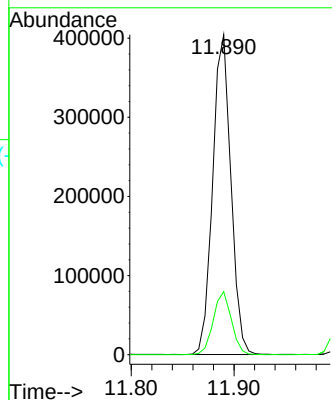
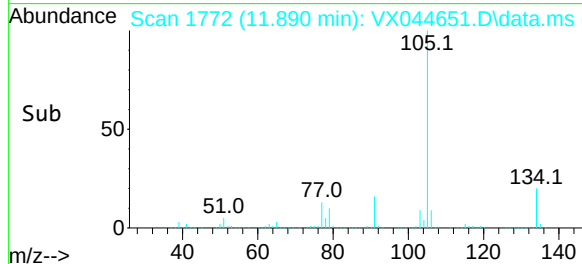
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:105 Resp: 497964
Ion Ratio Lower Upper
105 100
134 19.7 9.8 29.5

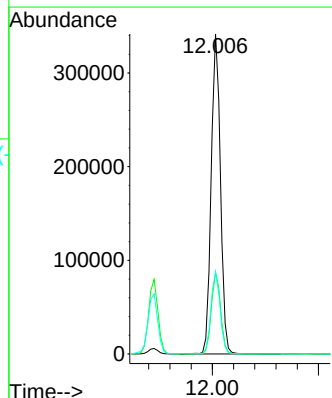
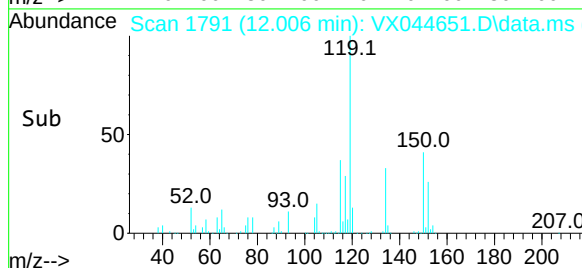
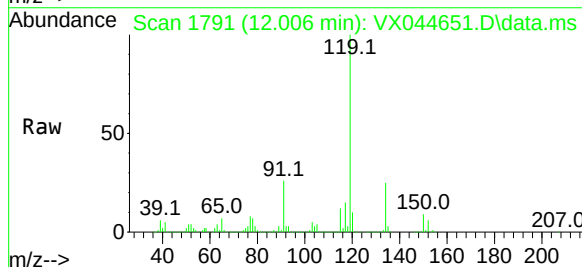
Manual Integrations
APPROVED

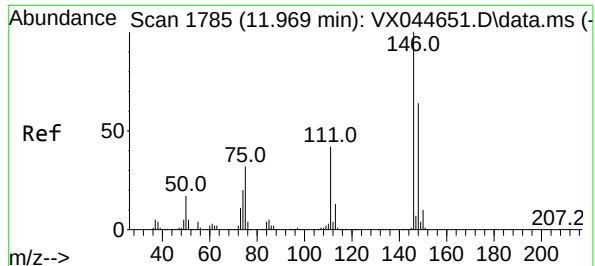
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#86
p-Isopropyltoluene
Concen: 48.421 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:119 Resp: 411853
Ion Ratio Lower Upper
119 100
134 25.6 12.8 38.4
91 25.4 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 48.720 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 20623

Ion Ratio Lower Upper

146 100

111 43.8 21.9 65.7

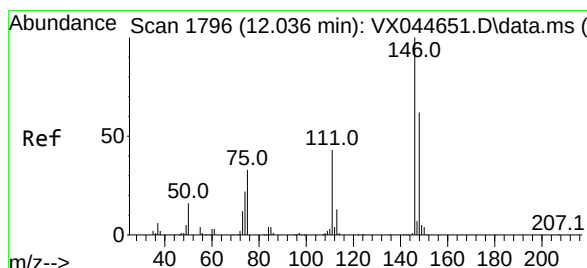
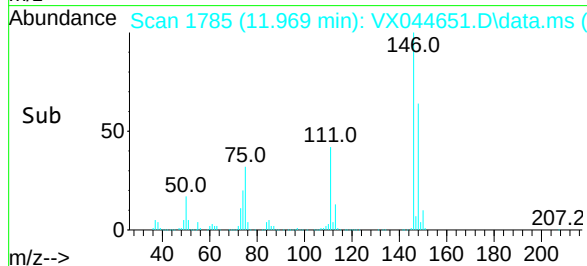
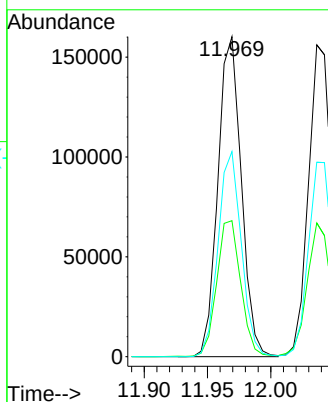
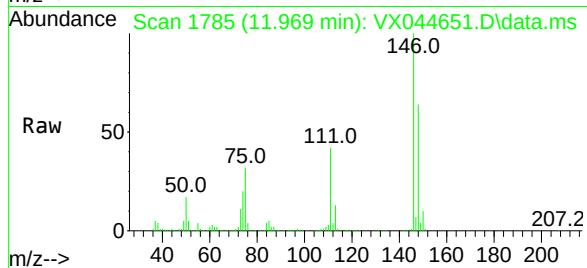
148 63.6 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#88

1,4-Dichlorobenzene

Concen: 47.960 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

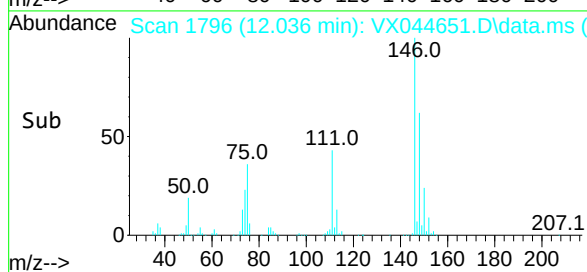
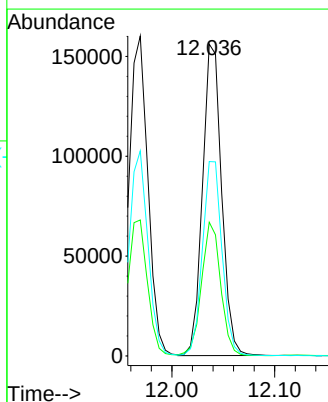
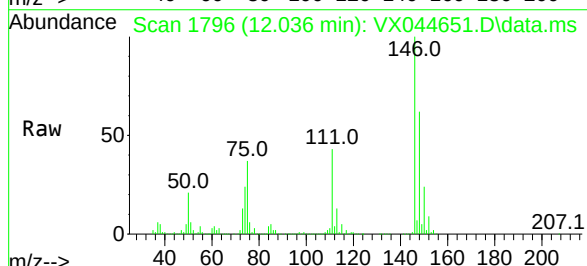
Tgt Ion:146 Resp: 201574

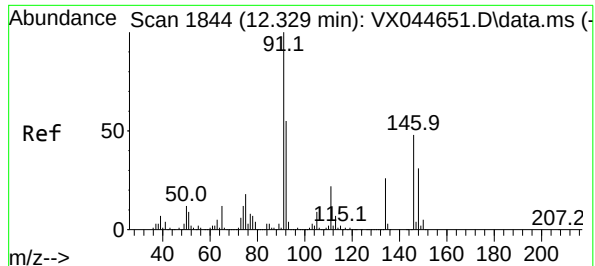
Ion Ratio Lower Upper

146 100

111 43.0 21.5 64.5

148 64.3 32.1 96.5





#89

n-Butylbenzene

Concen: 49.100 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044651.D

Acq: 15 Jan 2025 12:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 358698

Ion Ratio Lower Upper

91 100

92 54.7 27.4 82.0

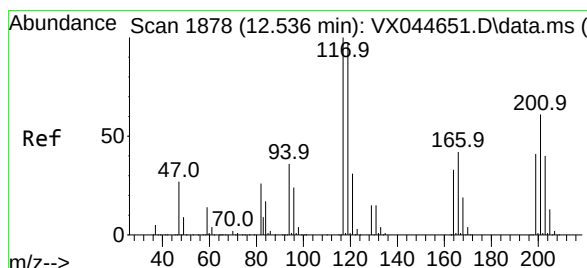
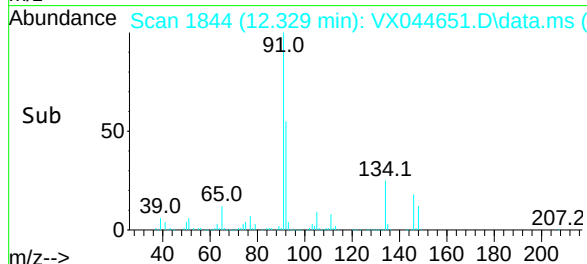
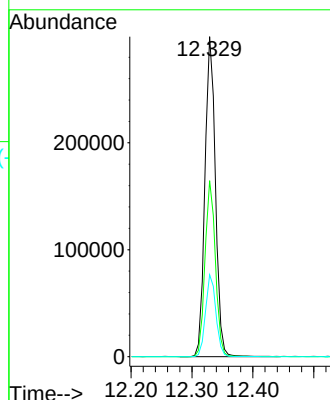
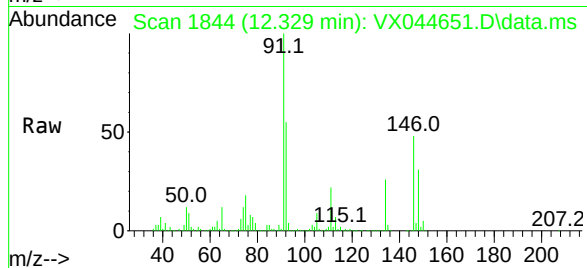
134 25.5 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#90

Hexachloroethane

Concen: 45.808 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044651.D

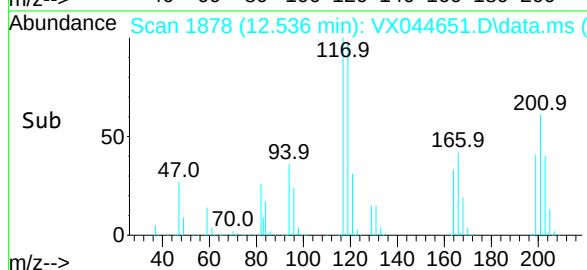
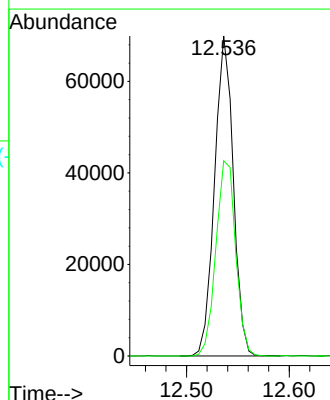
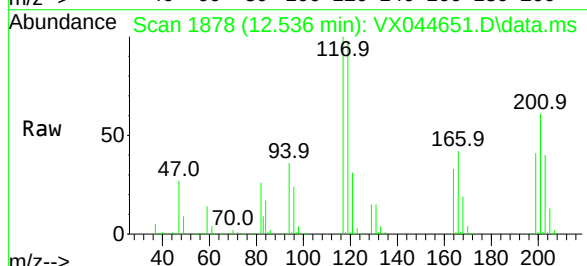
Acq: 15 Jan 2025 12:02

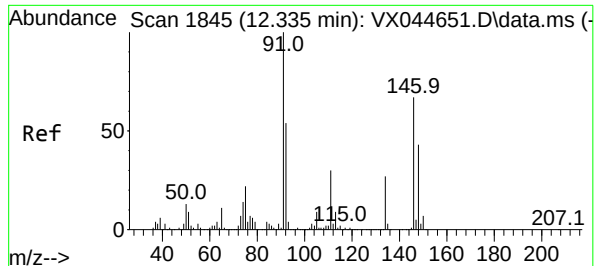
Tgt Ion:117 Resp: 88230

Ion Ratio Lower Upper

117 100

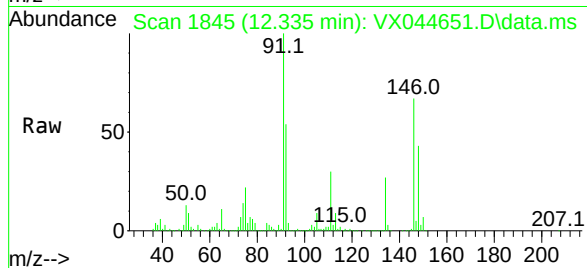
201 64.5 32.3 96.8





#91
1,2-Dichlorobenzene
Concen: 47.824 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

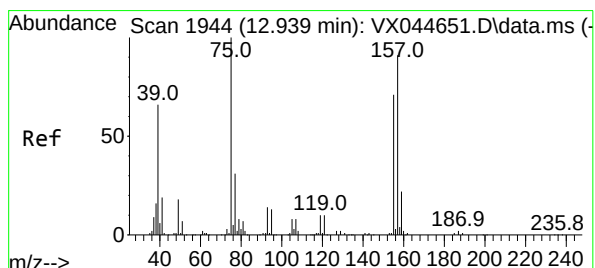
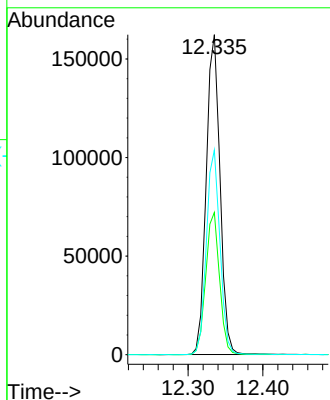
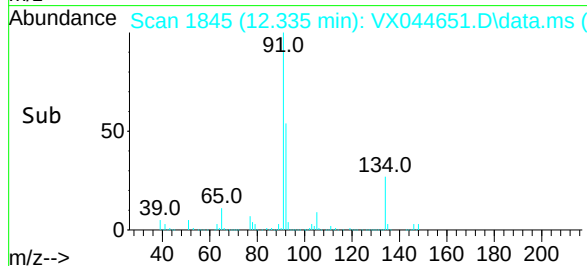
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:146 Resp: 20790
Ion Ratio Lower Upper
146 100
111 44.8 22.4 67.2
148 63.2 31.6 94.8

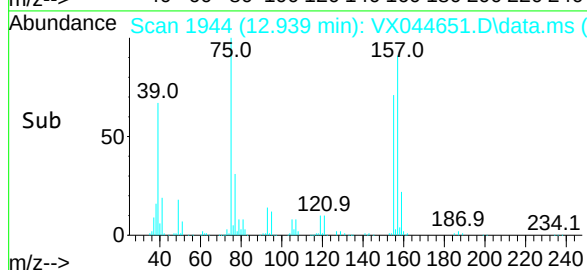
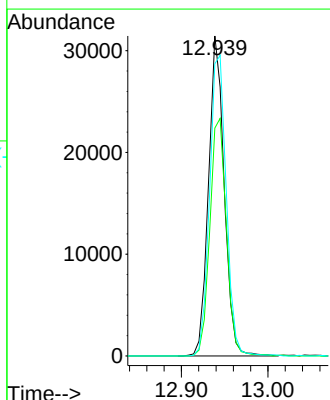
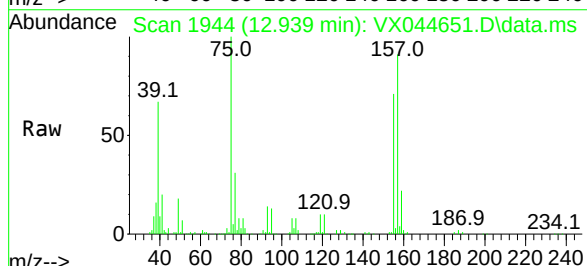
Manual Integrations
APPROVED

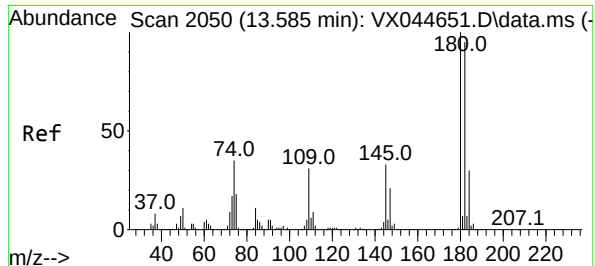
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 44.962 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

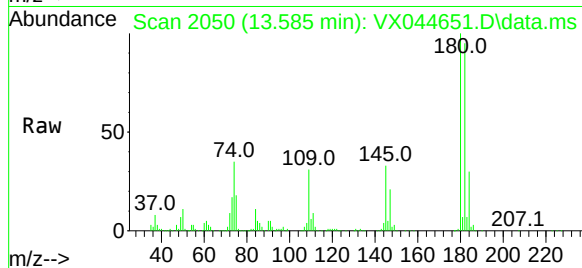
Tgt Ion: 75 Resp: 39659
Ion Ratio Lower Upper
75 100
155 77.9 39.0 116.9
157 99.8 49.9 149.7





#93
1,2,4-Trichlorobenzene
Concen: 50.708 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

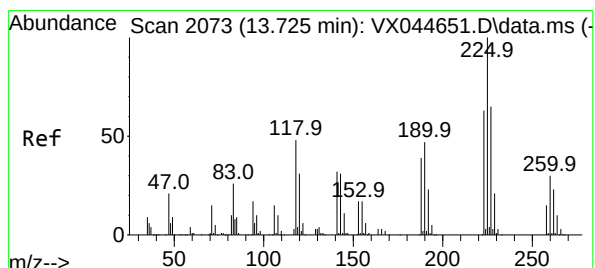
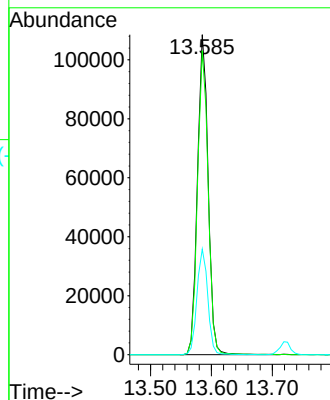
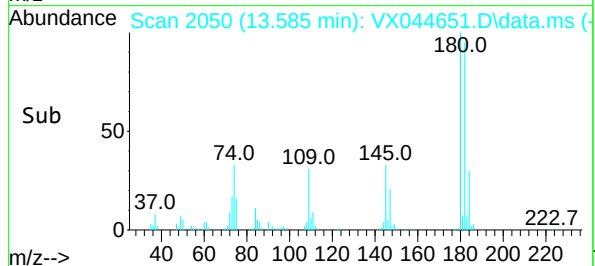
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:180 Resp: 131779
Ion Ratio Lower Upper
180 100
182 94.8 47.4 142.2
145 33.4 16.7 50.1

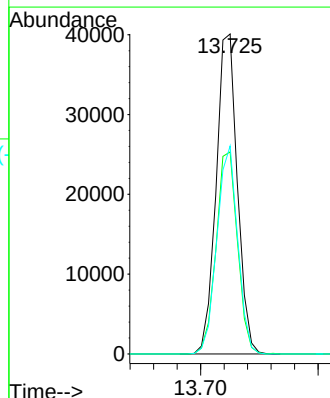
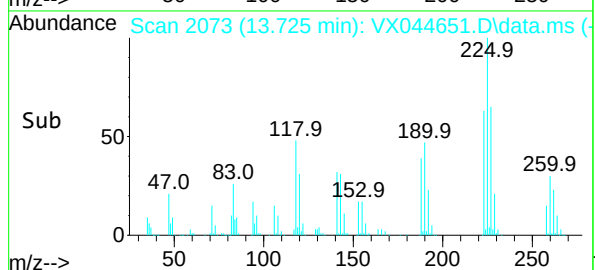
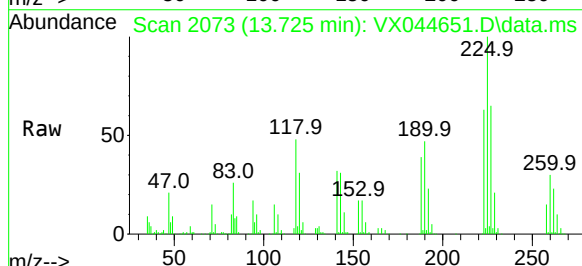
Manual Integrations
APPROVED

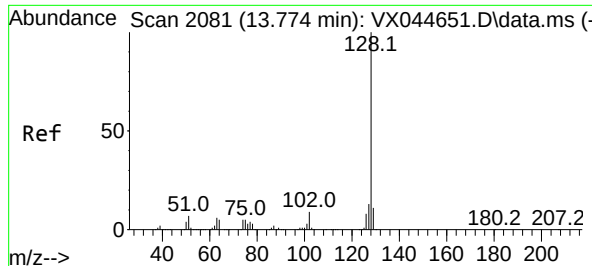
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#94
Hexachlorobutadiene
Concen: 49.230 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

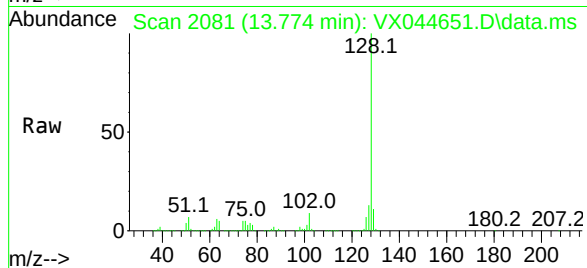
Tgt Ion:225 Resp: 50255
Ion Ratio Lower Upper
225 100
223 63.8 31.9 95.7
227 63.6 31.8 95.4





#95
Naphthalene
Concen: 48.639 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

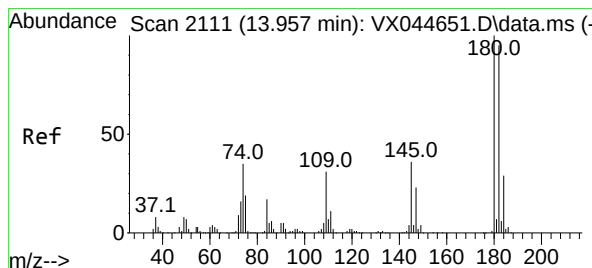
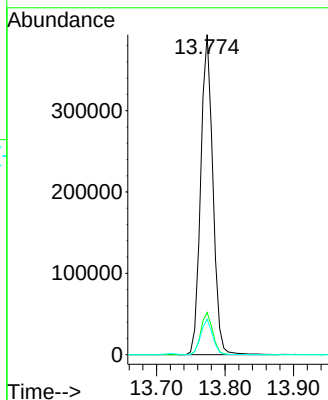
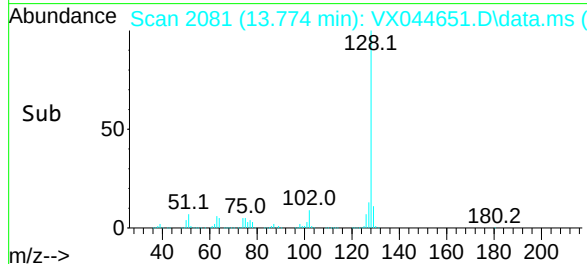
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 487529
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.9 8.7 13.1

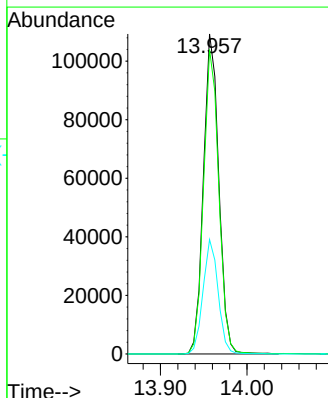
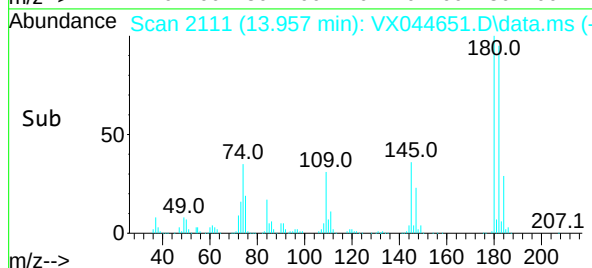
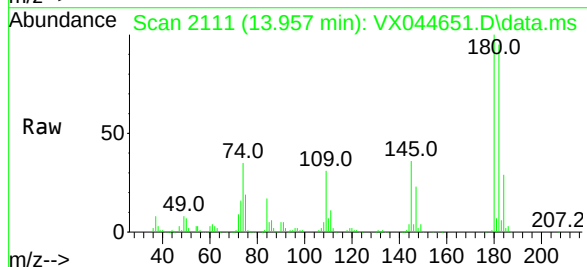
Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.047 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:180 Resp: 134816
Ion Ratio Lower Upper
180 100
182 94.4 47.2 141.6
145 35.1 17.5 52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044652.D
 Acq On : 15 Jan 2025 13:14
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:01:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	170573	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	308450	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	255886	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	110019	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	235193	91.349	ug/l	-0.01
Spiked Amount	50.000	Range	74 - 125	Recovery	= 182.700%#	
35) Dibromofluoromethane	5.373	113	181010	92.374	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 184.740%#	
50) Toluene-d8	8.641	98	617688	90.404	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 180.800%#	
62) 4-Bromofluorobenzene	11.079	95	236119	92.702	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 185.400%#	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	256287	111.657	ug/l	99
3) Chloromethane	1.301	50	232745	93.768	ug/l	100
4) Vinyl Chloride	1.374	62	238376	97.198	ug/l	100
5) Bromomethane	1.593	94	57815	98.728	ug/l	94
6) Chloroethane	1.660	64	42244	93.931	ug/l	97
7) Trichlorofluoromethane	1.861	101	275756	101.736	ug/l	99
8) Diethyl Ether	2.130	74	99765	91.205	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.313	101	203976	100.109	ug/l	99
10) Methyl Iodide	2.441	142	272297	97.884	ug/l	99
11) Tert butyl alcohol	3.026	59	259620m	447.152	ug/l	
12) 1,1-Dichloroethene	2.306	96	194870	97.570	ug/l	98
13) Acrolein	2.233	56	116830	432.534	ug/l	98
14) Allyl chloride	2.654	41	358388	92.162	ug/l	100
15) Acrylonitrile	3.062	53	560841	498.179	ug/l	100
16) Acetone	2.386	43	527741	518.081	ug/l	100
17) Carbon Disulfide	2.495	76	529418	97.144	ug/l	99
18) Methyl Acetate	2.697	43	321291	102.235	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	681776	94.245	ug/l	99
20) Methylene Chloride	2.776	84	216105	91.100	ug/l	97
21) trans-1,2-Dichloroethene	3.081	96	190588	91.400	ug/l	99
22) Diisopropyl ether	3.751	45	632562	93.579	ug/l	100
23) Vinyl Acetate	3.715	43	2791754	471.863	ug/l	100
24) 1,1-Dichloroethane	3.599	63	378924	94.530	ug/l	99
25) 2-Butanone	4.550	43	765500	505.435	ug/l	100
26) 2,2-Dichloropropane	4.458	77	357666	92.064	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	240149	91.559	ug/l	99
28) Bromochloromethane	4.885	49	179896	96.041	ug/l	100
29) Tetrahydrofuran	4.995	42	477227	488.500	ug/l	100
30) Chloroform	5.080	83	373681	92.373	ug/l	99
31) Cyclohexane	5.452	56	319131	98.436	ug/l	98
32) 1,1,1-Trichloroethane	5.367	97	338119	90.918	ug/l	99
36) 1,1-Dichloropropene	5.678	75	255714	93.746	ug/l	99
37) Ethyl Acetate	4.702	43	300700	103.517	ug/l	99
38) Carbon Tetrachloride	5.666	117	287048	93.555	ug/l	99
39) Methylcyclohexane	7.367	83	359758	99.352	ug/l	98
40) Benzene	6.025	78	785626	92.946	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044652.D
 Acq On : 15 Jan 2025 13:14
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By :John Carlone 01/15/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:01:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	168481	100.920	ug/l	98
42) 1,2-Dichloroethane	6.074	62	292036	94.663	ug/l	99
43) Isopropyl Acetate	6.330	43	512598	95.925	ug/l	99
44) Trichloroethene	7.117	130	199570	98.212	ug/l	96
45) 1,2-Dichloropropane	7.421	63	200877	94.413	ug/l	99
46) Dibromomethane	7.568	93	150112	92.680	ug/l	98
47) Bromodichloromethane	7.812	83	307990	92.723	ug/l	99
48) Methyl methacrylate	7.684	41	248667	100.250	ug/l	100
49) 1,4-Dioxane	7.665	88	101384	1959.056	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	1372888	464.897	ug/l	100
52) Toluene	8.708	92	474392	91.697	ug/l	100
53) t-1,3-Dichloropropene	8.970	75	330982	96.446	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	349516	93.927	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	192326	91.885	ug/l	98
56) Ethyl methacrylate	9.110	69	337626	93.812	ug/l	99
57) 1,3-Dichloropropane	9.305	76	325142	91.220	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	817528	462.693	ug/l	99
59) 2-Hexanone	9.427	43	1019940	469.454	ug/l	99
60) Dibromochloromethane	9.519	129	227418	92.570	ug/l	99
61) 1,2-Dibromoethane	9.604	107	202247	92.200	ug/l	100
64) Tetrachloroethene	9.269	164	157748	98.176	ug/l	98
65) Chlorobenzene	10.073	112	510916	94.003	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	184816	93.565	ug/l	100
67) Ethyl Benzene	10.189	91	909208	95.872	ug/l	99
68) m/p-Xylenes	10.299	106	661488	187.963	ug/l	100
69) o-Xylene	10.640	106	329336	92.536	ug/l	99
70) Styrene	10.653	104	547016	95.197	ug/l	100
71) Bromoform	10.799	173	155379	96.648	ug/l #	99
73) Isopropylbenzene	10.957	105	833874	92.779	ug/l	100
74) N-amyl acetate	10.842	43	414046	93.463	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	278679	89.776	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	250918m	96.568	ug/l	
77) Bromobenzene	11.195	156	192700	91.729	ug/l	99
78) n-propylbenzene	11.299	91	956202	96.470	ug/l	100
79) 2-Chlorotoluene	11.360	91	584682	91.317	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	672586	91.926	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	114832	98.354	ug/l	99
82) 4-Chlorotoluene	11.451	91	655250	93.421	ug/l	100
83) tert-Butylbenzene	11.713	119	690320	90.233	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	681398	91.646	ug/l	100
85) sec-Butylbenzene	11.890	105	848327	95.235	ug/l	100
86) p-Isopropyltoluene	12.006	119	695433	94.999	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	353809	97.115	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	347517	96.070	ug/l	99
89) n-Butylbenzene	12.329	91	633246	100.715	ug/l	99
90) Hexachloroethane	12.536	117	149253	90.037	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	340683	91.056	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	70862	93.344	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	233417	104.359	ug/l	99
94) Hexachlorobutadiene	13.725	225	88214	100.406	ug/l	100
95) Naphthalene	13.774	128	849403	98.464	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	232152	100.133	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044652.D
Acq On : 15 Jan 2025 13:14
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:01:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

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

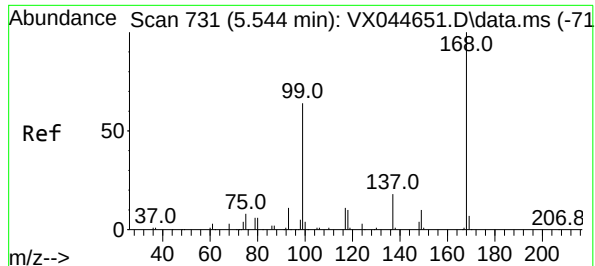
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations APPROVED

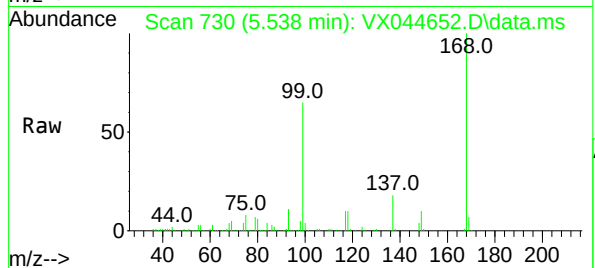
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

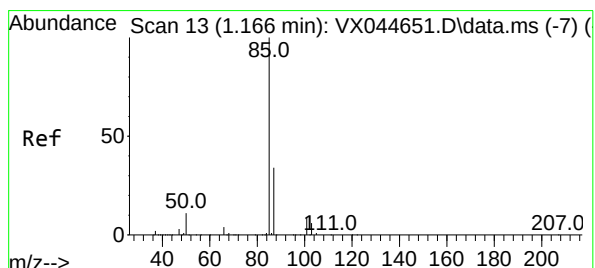
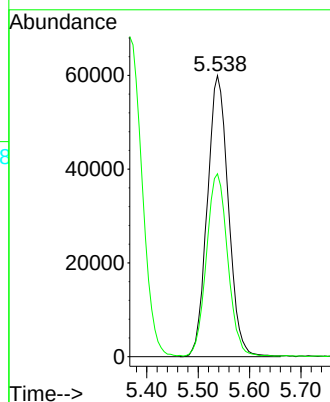
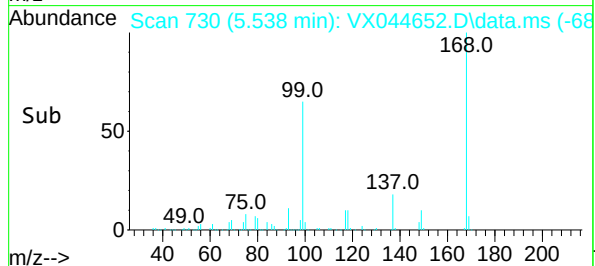
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:168 Resp: 17057
Ion Ratio Lower Upper
168 100
99 64.8 51.1 76.7

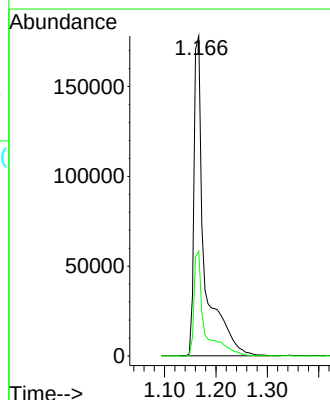
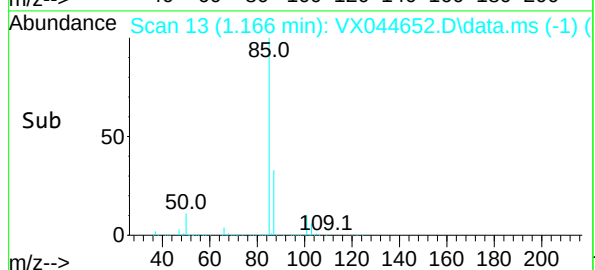
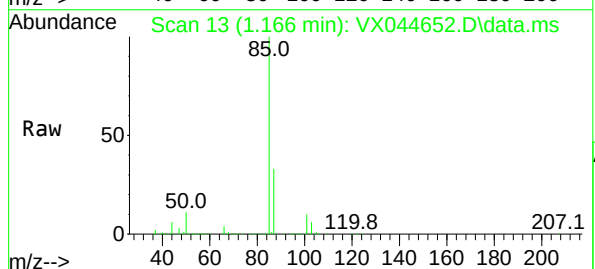
Manual Integrations
APPROVED

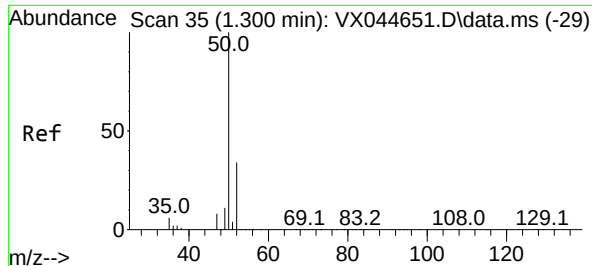
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#2
Dichlorodifluoromethane
Concen: 111.657 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 85 Resp: 256287
Ion Ratio Lower Upper
85 100
87 32.8 16.8 50.4





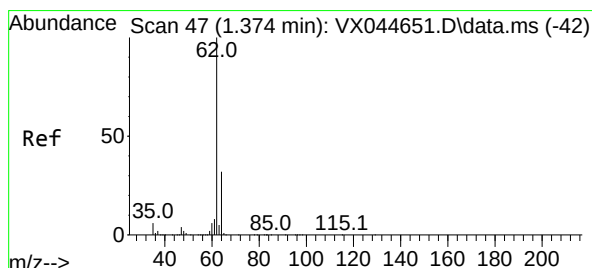
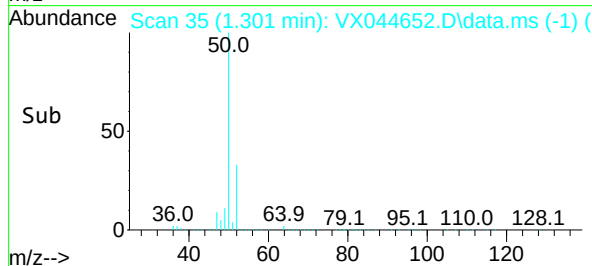
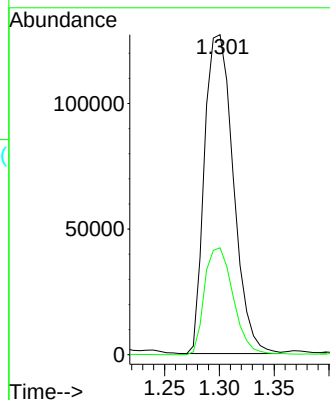
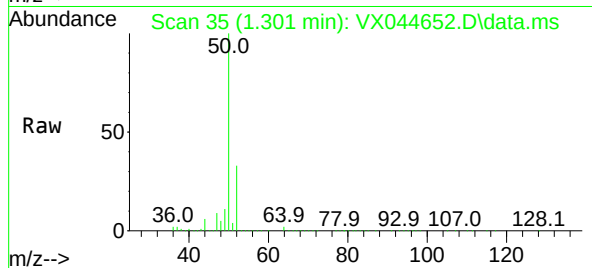
#3
Chloromethane
Concen: 93.768 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 232749
Ion Ratio Lower Upper
50 100
52 33.5 27.0 40.4

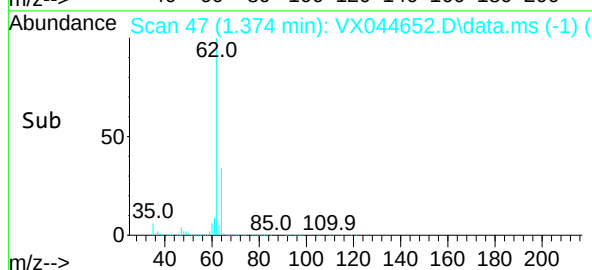
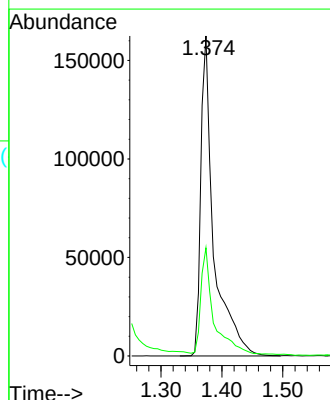
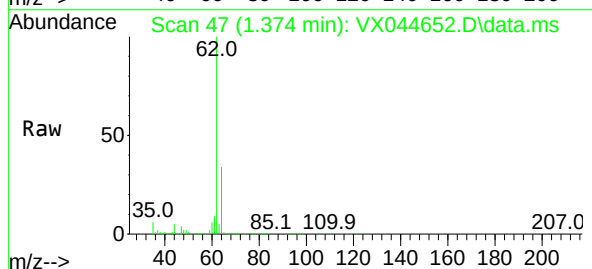
Manual Integrations
APPROVED

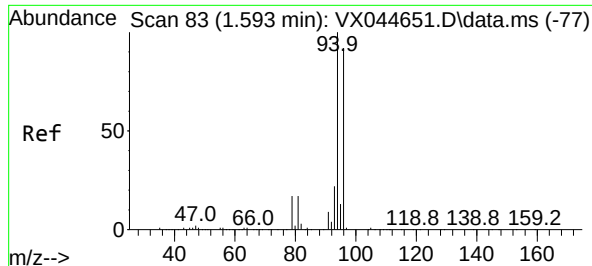
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#4
Vinyl Chloride
Concen: 97.198 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

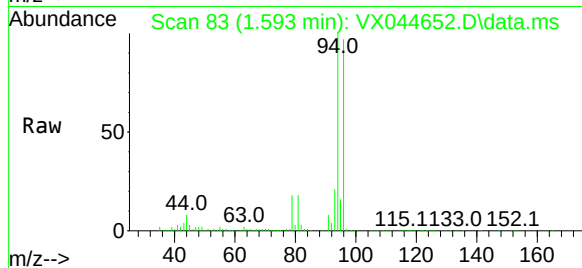
Tgt Ion: 62 Resp: 238376
Ion Ratio Lower Upper
62 100
64 33.3 26.6 39.8





#5
Bromomethane
Concen: 98.728 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

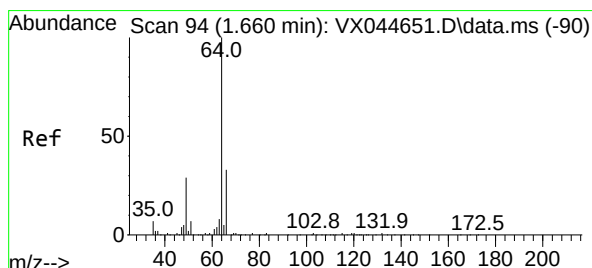
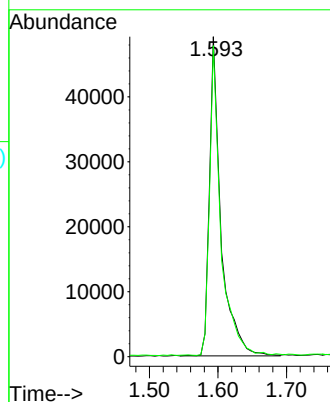
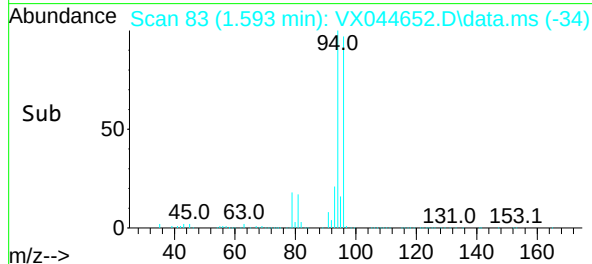
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 94 Resp: 5781
Ion Ratio Lower Upper
94 100
96 97.0 72.8 109.2

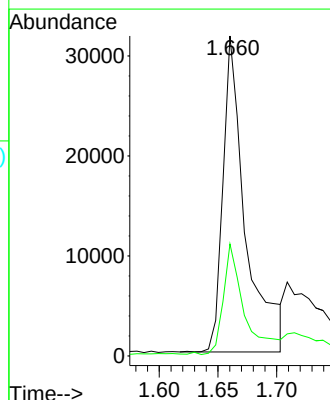
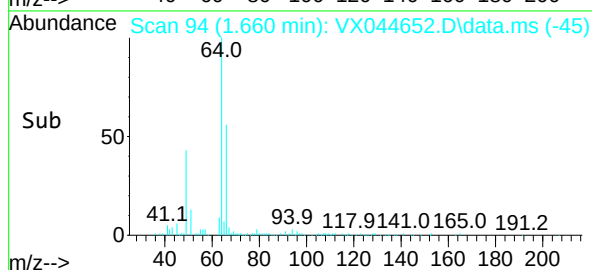
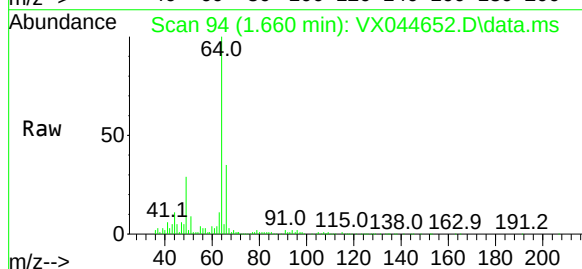
Manual Integrations
APPROVED

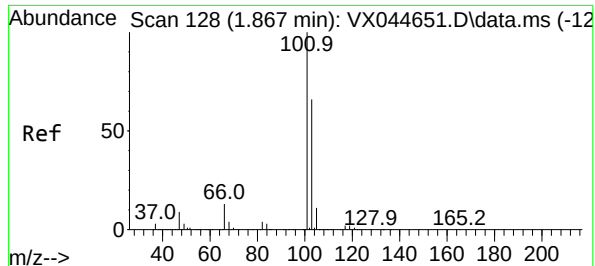
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#6
Chloroethane
Concen: 93.931 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

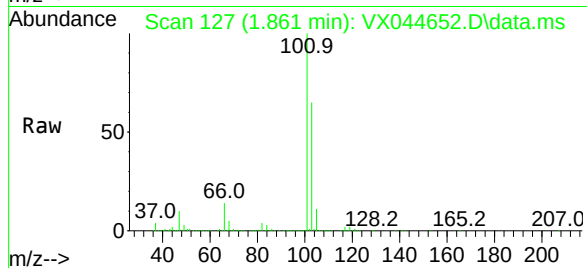
Tgt Ion: 64 Resp: 42244
Ion Ratio Lower Upper
64 100
66 34.8 26.6 39.8





#7
Trichlorofluoromethane
Concen: 101.736 ug/l
RT: 1.861 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

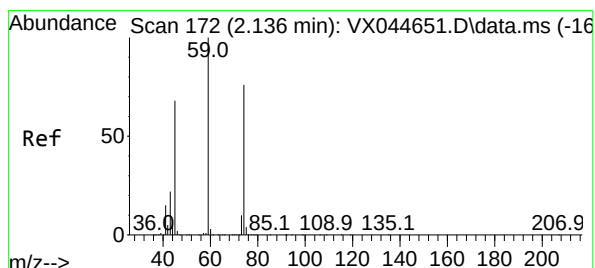
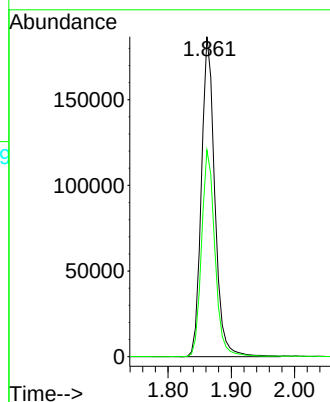
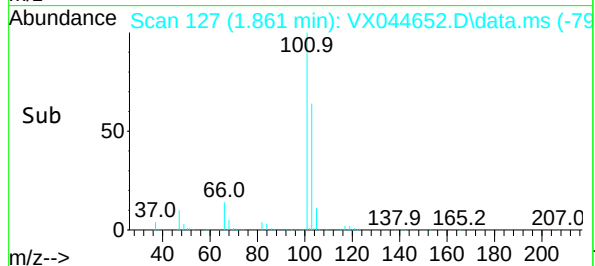
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:101 Resp: 275750
Ion Ratio Lower Upper
101 100
103 64.5 52.5 78.7

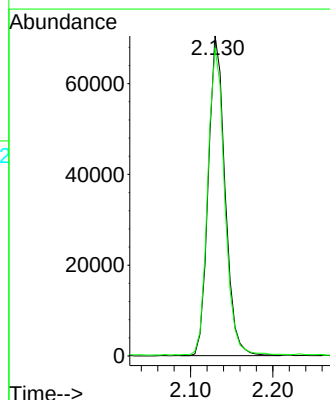
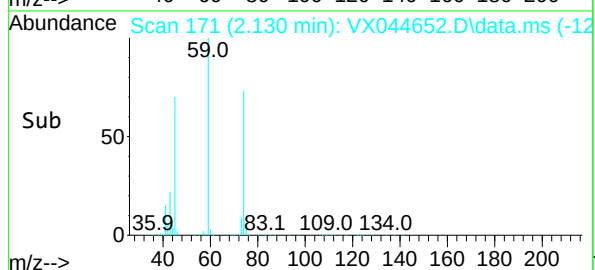
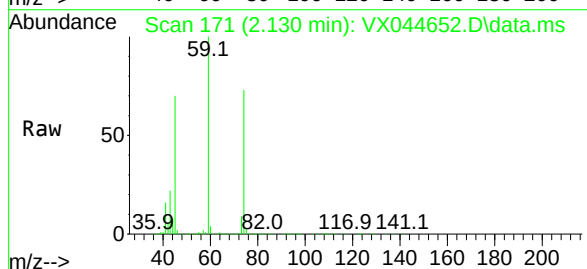
Manual Integrations
APPROVED

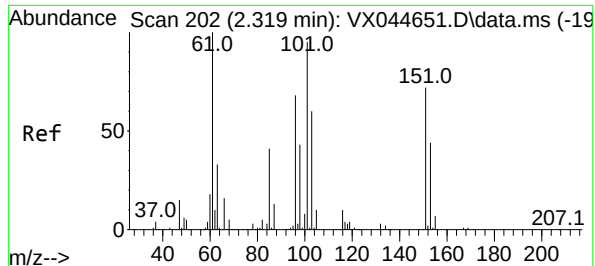
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#8
Diethyl Ether
Concen: 91.205 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 74 Resp: 99765
Ion Ratio Lower Upper
74 100
45 97.0 47.1 141.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 100.109 ug/l

RT: 2.313 min Scan# 202

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:101 Resp: 203970

Ion Ratio Lower Upper

101 100

85 43.8 35.3 52.9

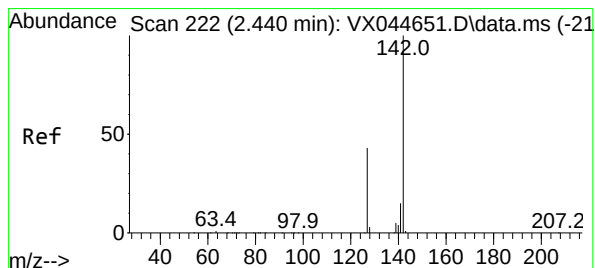
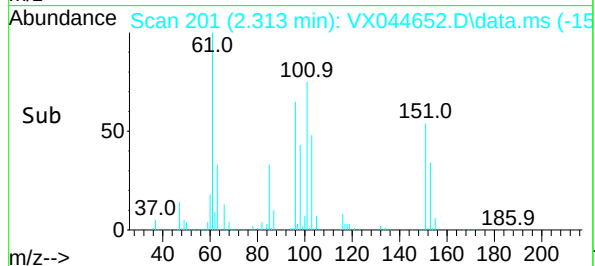
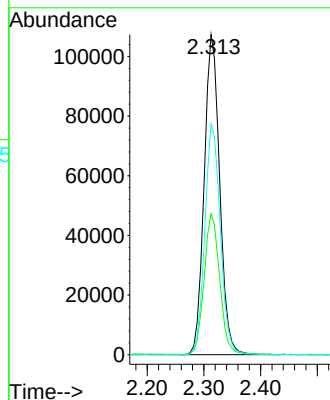
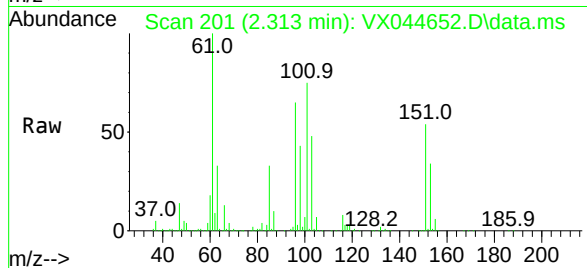
151 72.1 58.2 87.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#10

Methyl Iodide

Concen: 97.884 ug/l

RT: 2.441 min Scan# 222

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

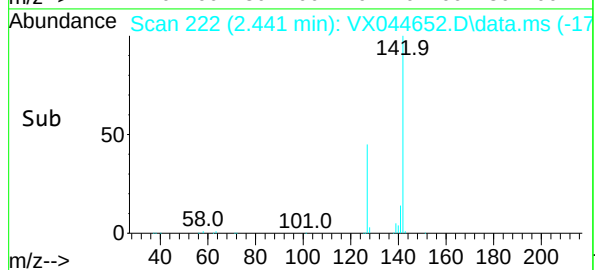
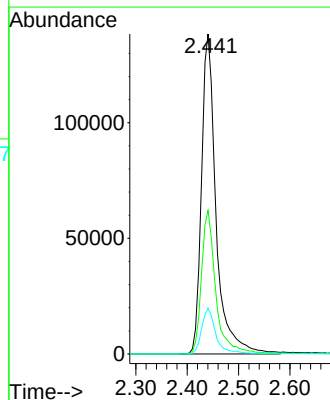
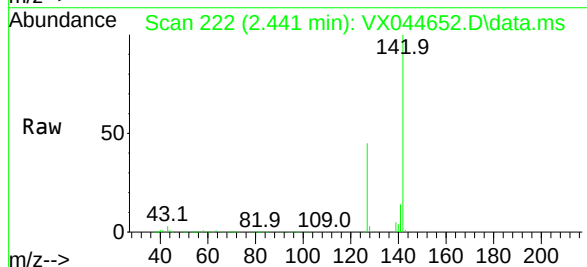
Tgt Ion:142 Resp: 272297

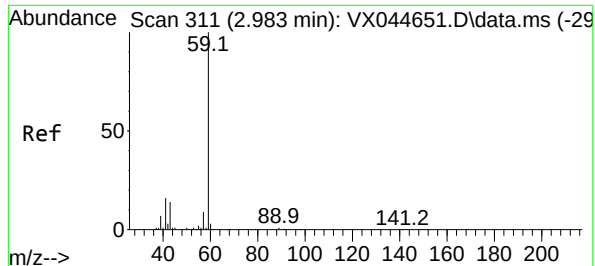
Ion Ratio Lower Upper

142 100

127 44.3 35.0 52.4

141 14.1 11.7 17.5





#11

Tert butyl alcohol

Concen: 447.152 ug/l m

RT: 3.026 min Scan# 311

Delta R.T. 0.043 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 259620

Ion Ratio Lower Upper

59 100

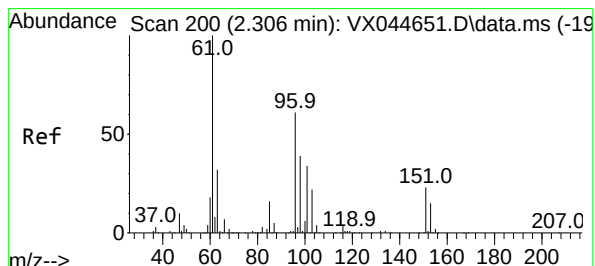
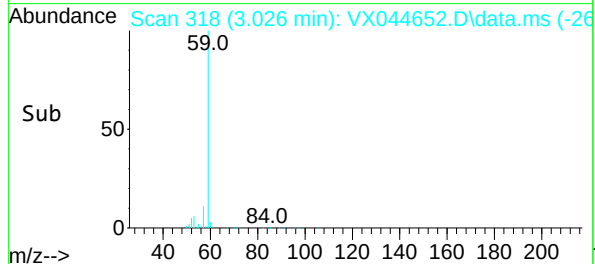
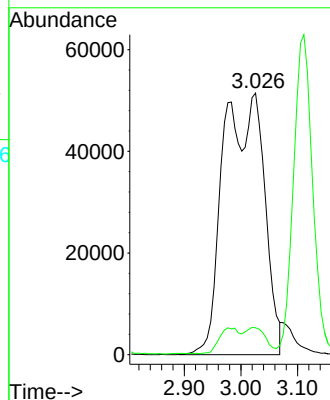
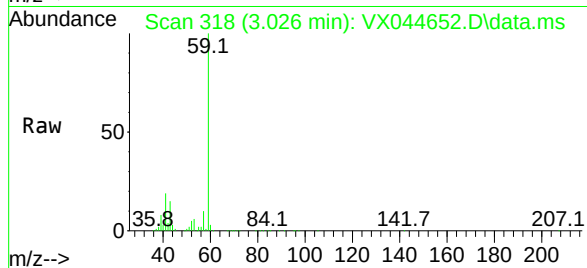
57 5.0 3.9 5.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#12

1,1-Dichloroethene

Concen: 97.570 ug/l

RT: 2.306 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

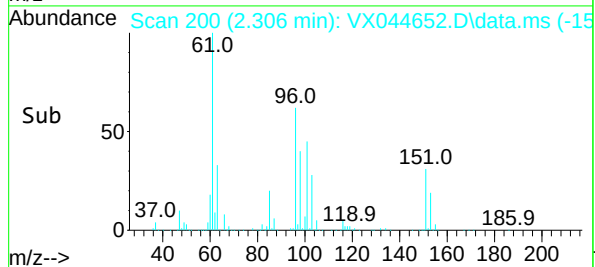
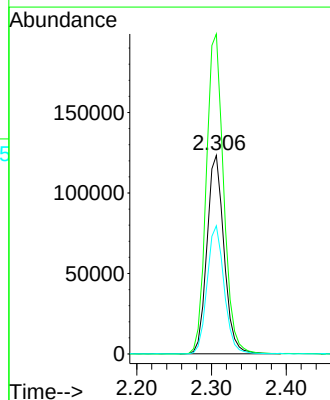
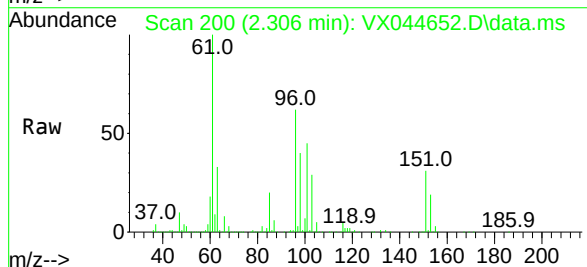
Tgt Ion: 96 Resp: 194870

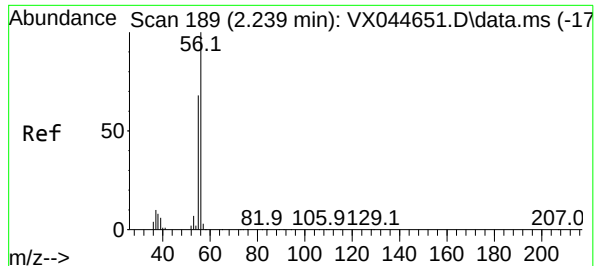
Ion Ratio Lower Upper

96 100

61 161.3 131.1 196.7

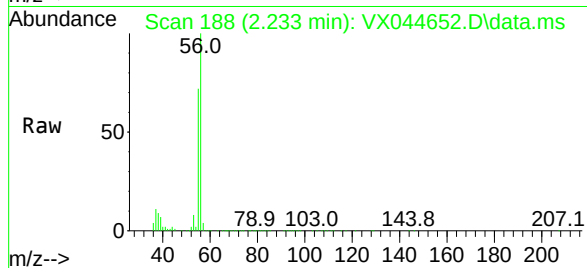
98 64.6 51.2 76.8





#13
Acrolein
Concen: 432.534 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

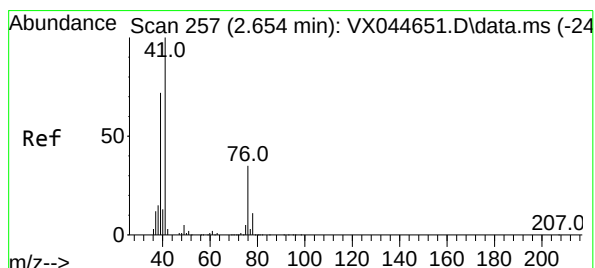
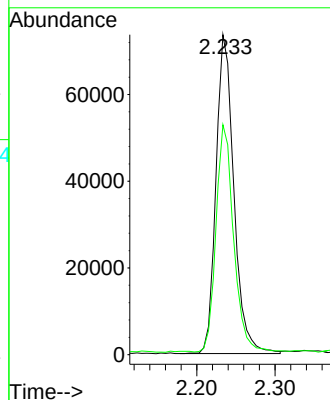
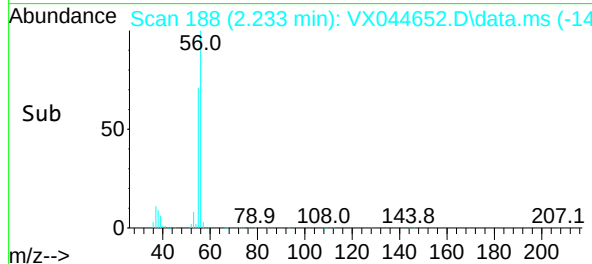
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 56 Resp: 116830
Ion Ratio Lower Upper
56 100
55 70.2 55.1 82.7

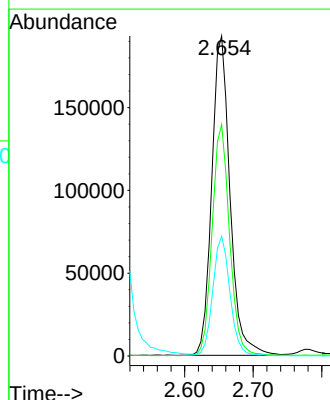
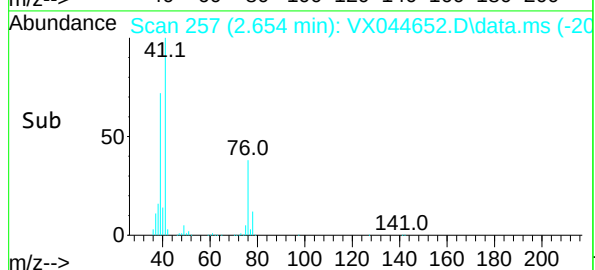
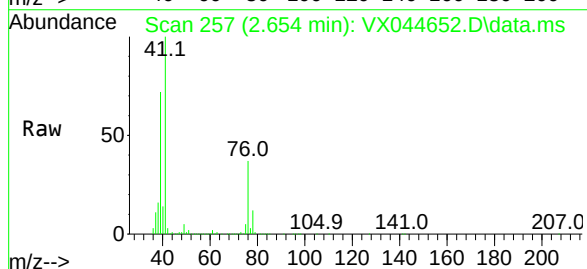
Manual Integrations
APPROVED

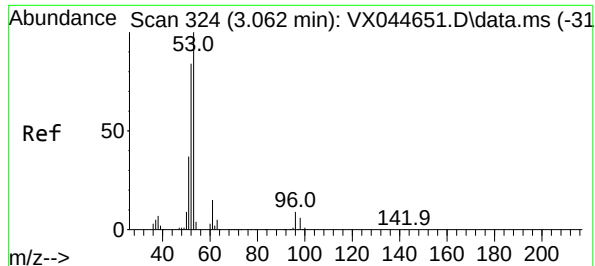
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#14
Allyl chloride
Concen: 92.162 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 41 Resp: 358388
Ion Ratio Lower Upper
41 100
39 68.7 54.9 82.3
76 35.1 28.4 42.6





#15

Acrylonitrile

Concen: 498.179 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 56084

Ion Ratio Lower Upper

53 100

52 82.7 66.0 99.0

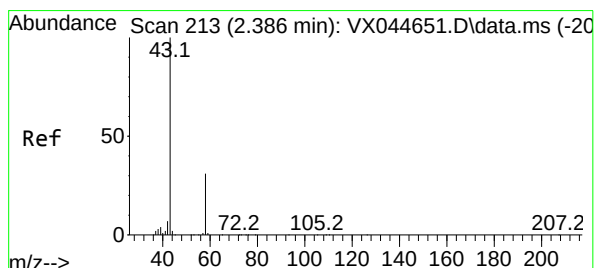
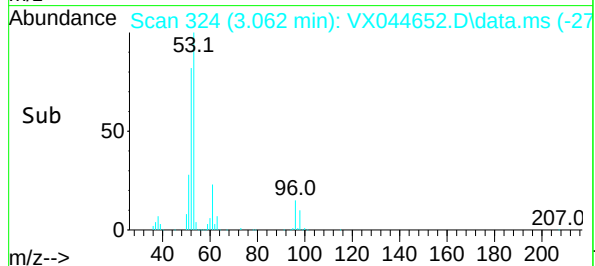
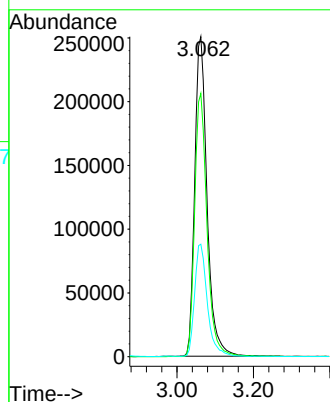
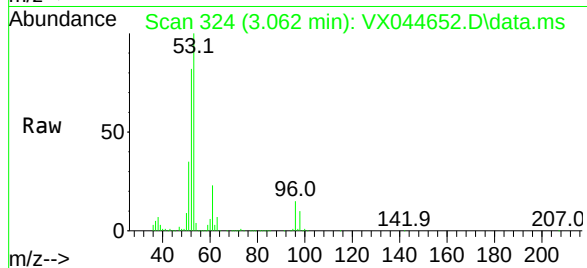
51 36.1 28.9 43.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#16

Acetone

Concen: 518.081 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX044652.D

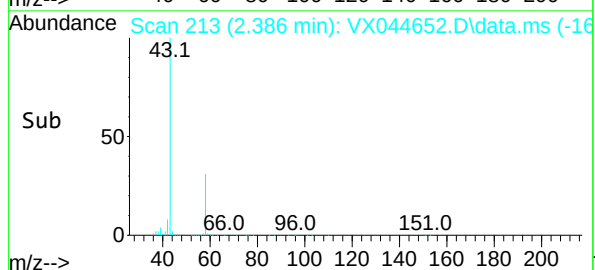
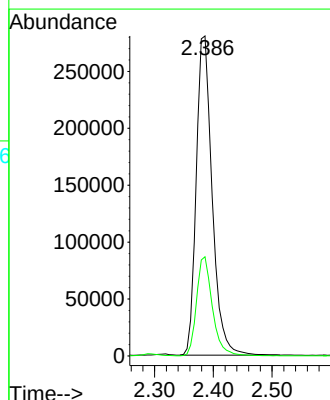
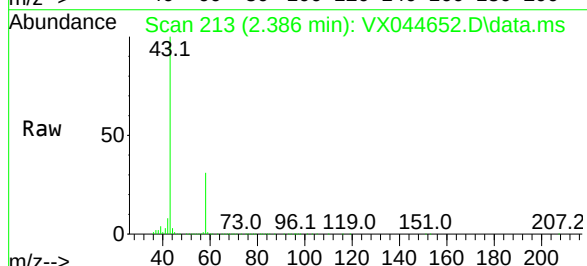
Acq: 15 Jan 2025 13:14

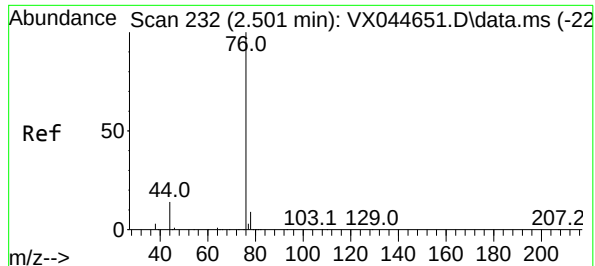
Tgt Ion: 43 Resp: 527741

Ion Ratio Lower Upper

43 100

58 31.0 24.6 37.0





#17

Carbon Disulfide

Concen: 97.144 ug/l

RT: 2.495 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 529418

Ion Ratio Lower Upper

76 100

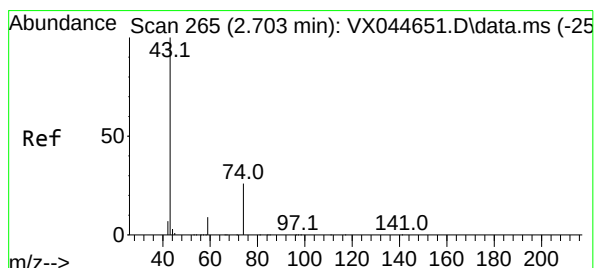
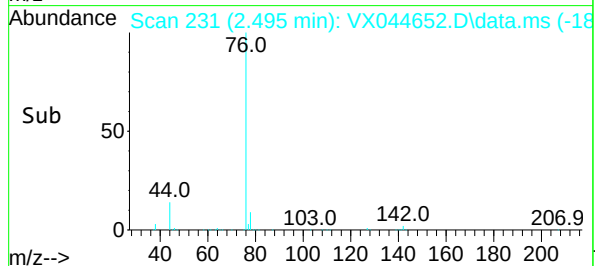
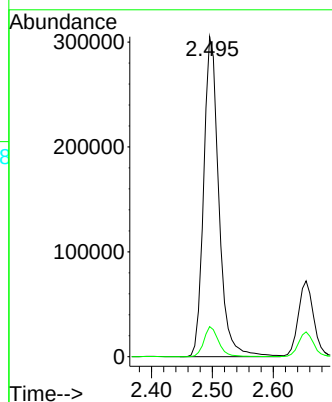
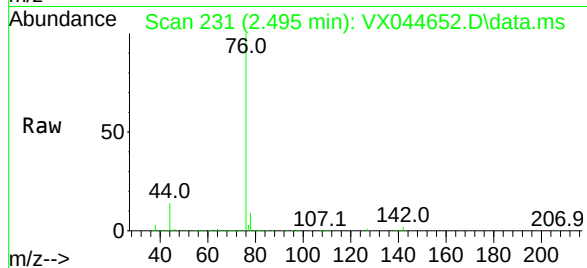
78 9.4 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#18

Methyl Acetate

Concen: 102.235 ug/l

RT: 2.697 min Scan# 264

Delta R.T. -0.006 min

Lab File: VX044652.D

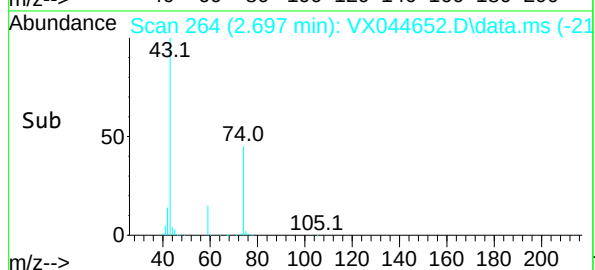
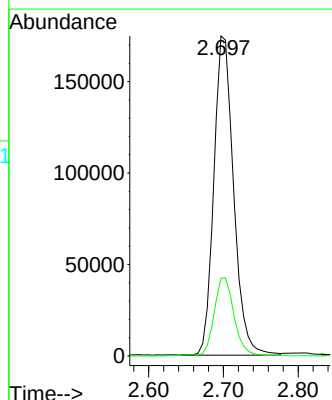
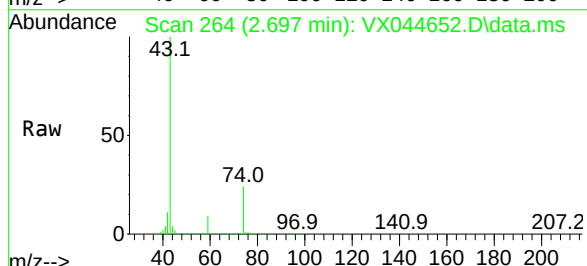
Acq: 15 Jan 2025 13:14

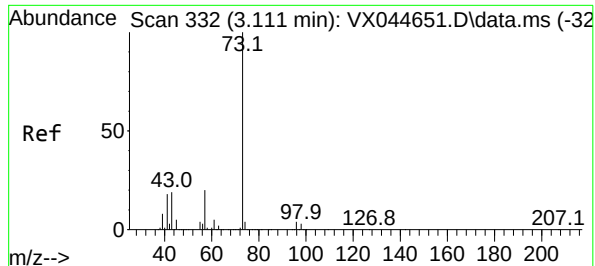
Tgt Ion: 43 Resp: 321291

Ion Ratio Lower Upper

43 100

74 25.1 19.8 29.8





#19

Methyl tert-butyl Ether

Concen: 94.245 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 681776

Ion Ratio Lower Upper

73 100

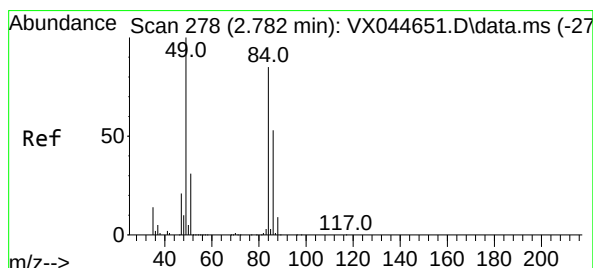
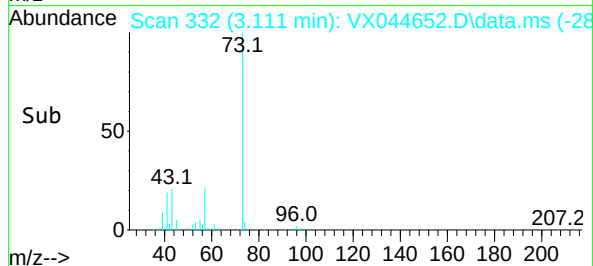
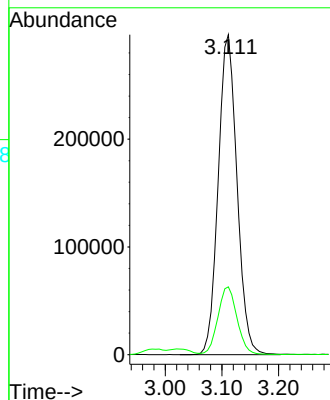
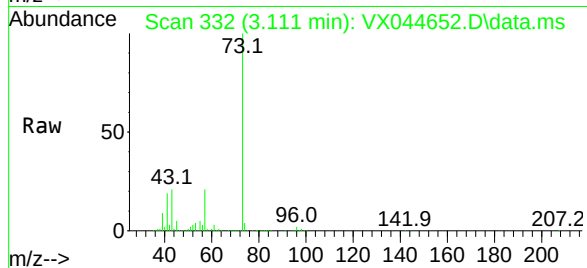
57 21.1 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#20

Methylene Chloride

Concen: 91.100 ug/l

RT: 2.776 min Scan# 277

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Tgt Ion: 84 Resp: 216105

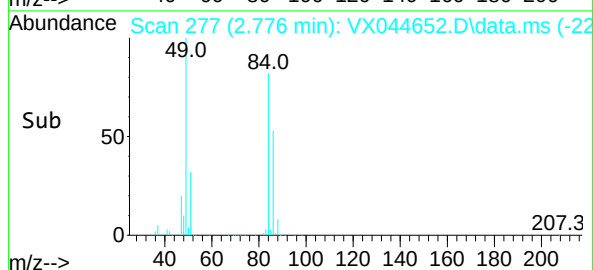
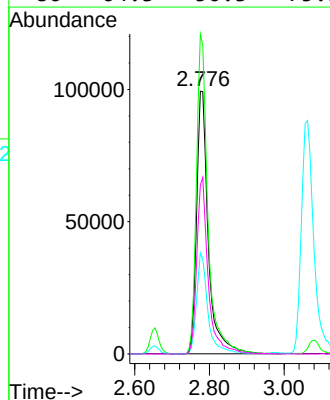
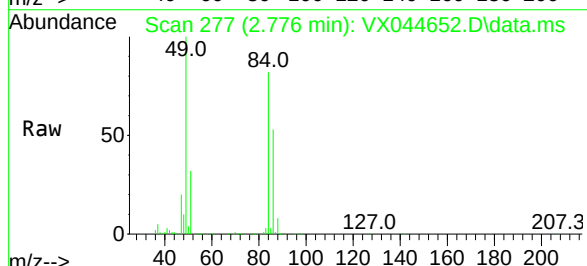
Ion Ratio Lower Upper

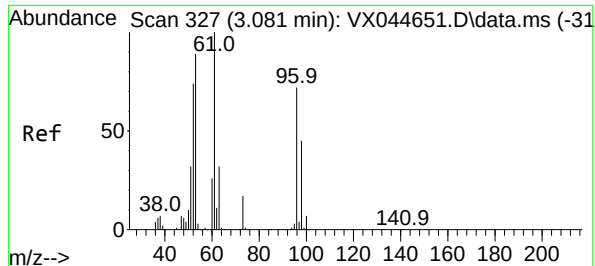
84 100

49 121.9 94.2 141.4

51 38.4 28.8 43.2

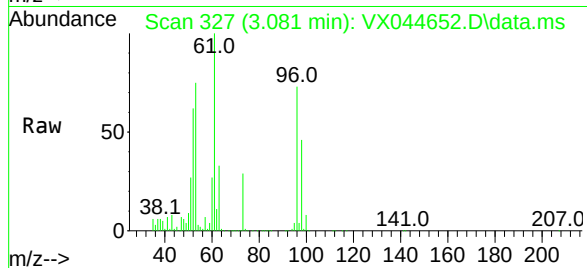
86 64.3 50.3 75.5





#21
trans-1,2-Dichloroethene
Concen: 91.400 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

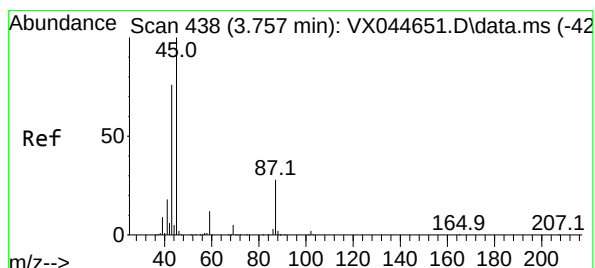
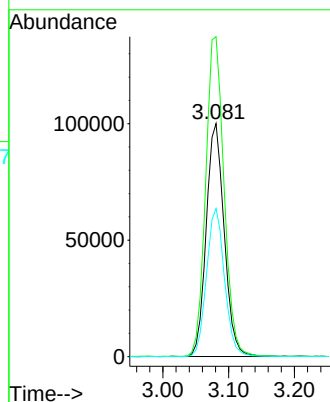
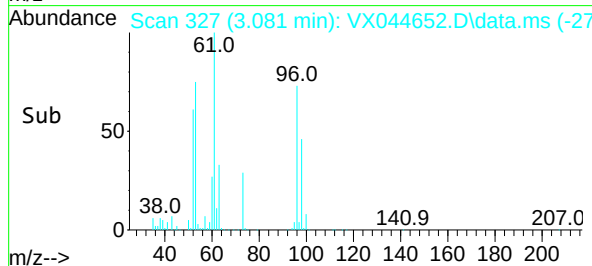
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 190588
Ion Ratio Lower Upper
96 100
61 137.2 111.0 166.6
98 63.6 50.2 75.2

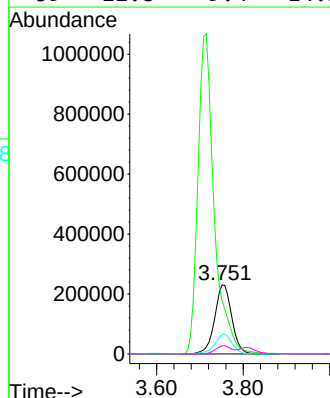
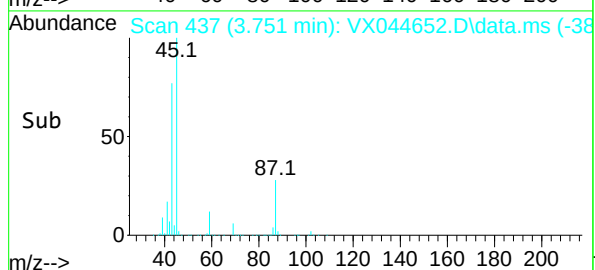
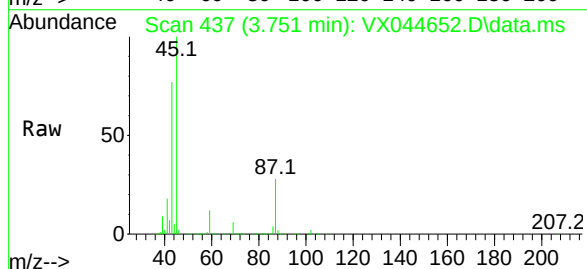
Manual Integrations
APPROVED

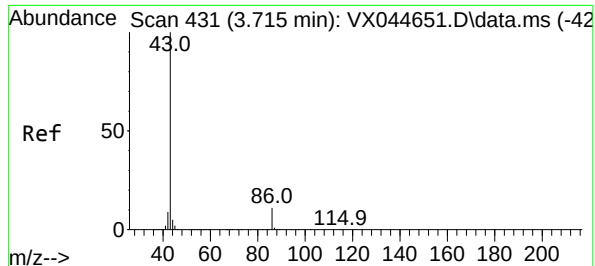
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#22
Diisopropyl ether
Concen: 93.579 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

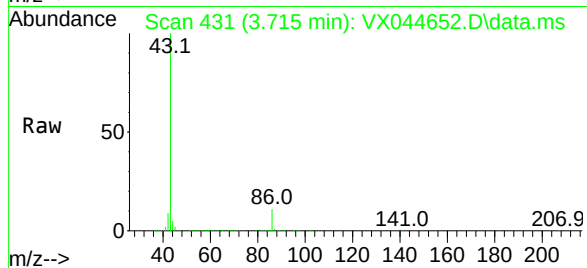
Tgt Ion: 45 Resp: 632562
Ion Ratio Lower Upper
45 100
43 76.7 61.0 91.6
87 28.0 22.7 34.1
59 11.8 9.4 14.2





#23
Vinyl Acetate
Concen: 471.863 ug/l
RT: 3.715 min Scan# 41
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

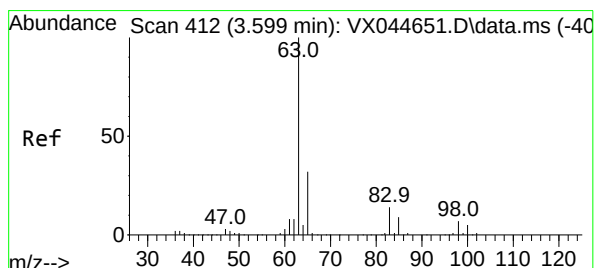
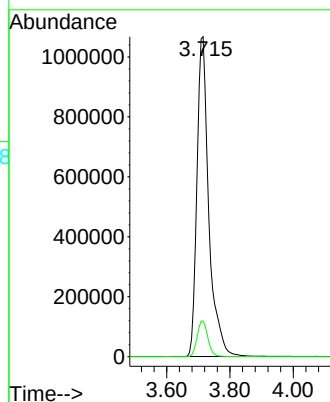
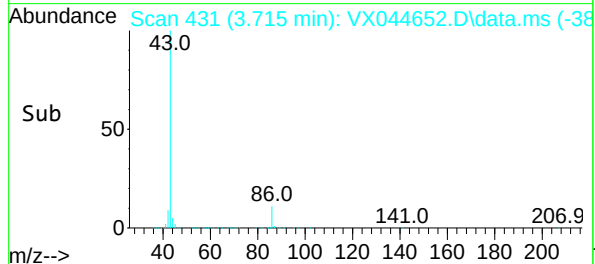
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 2791754
Ion Ratio Lower Upper
43 100
86 11.1 8.9 13.3

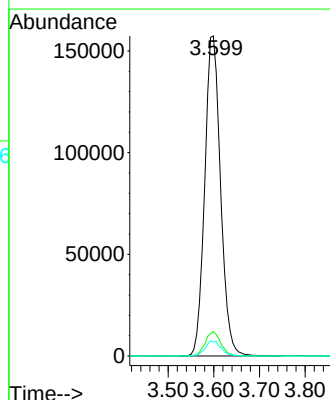
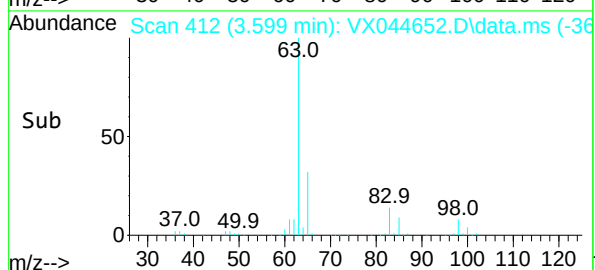
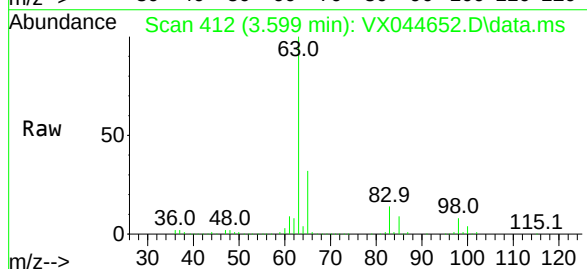
Manual Integrations
APPROVED

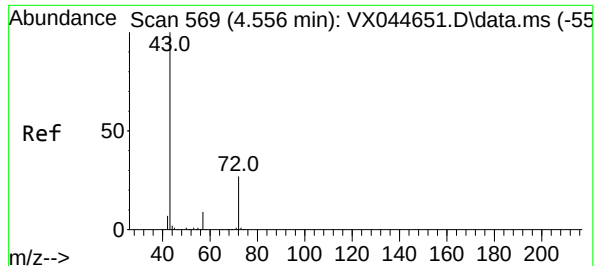
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#24
1,1-Dichloroethane
Concen: 94.530 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 63 Resp: 378924
Ion Ratio Lower Upper
63 100
98 7.6 3.6 10.9
100 4.4 2.5 7.5





#25

2-Butanone

Concen: 505.435 ug/l

RT: 4.550 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 765500

Ion Ratio Lower Upper

43

100

72

26.9

21.7

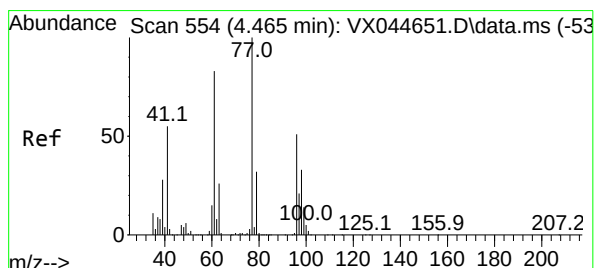
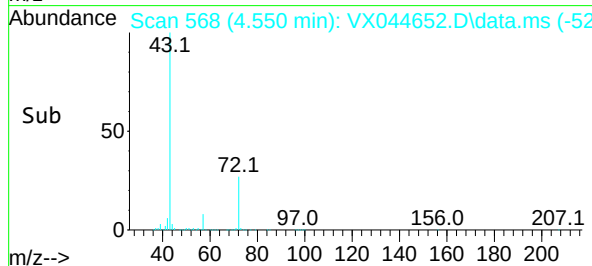
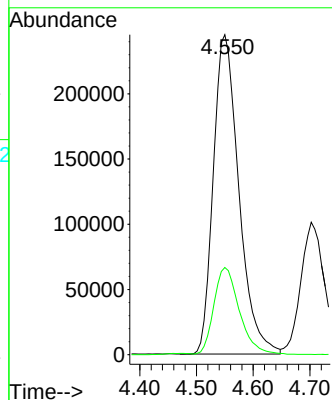
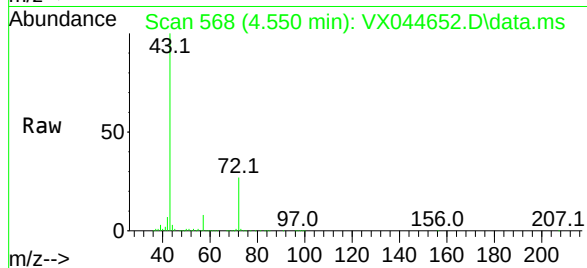
32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#26

2,2-Dichloropropane

Concen: 92.064 ug/l

RT: 4.458 min Scan# 553

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Tgt Ion: 77 Resp: 357666

Ion Ratio Lower Upper

77

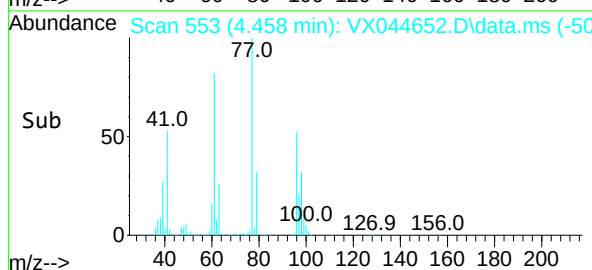
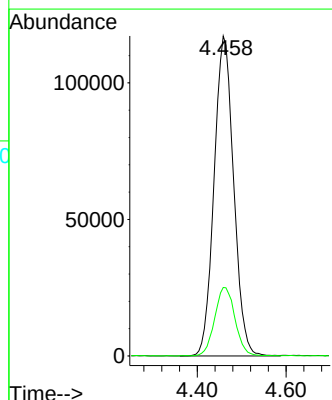
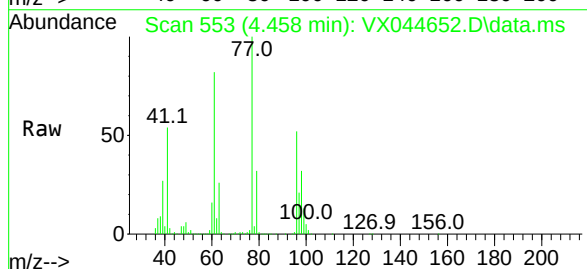
100

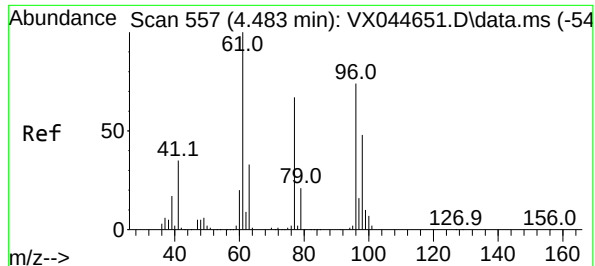
97

22.0

10.9

32.6





#27

cis-1,2-Dichloroethene

Concen: 91.559 ug/l

RT: 4.471 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 240149

Ion Ratio Lower Upper

96 100

61 147.5 0.0 296.0

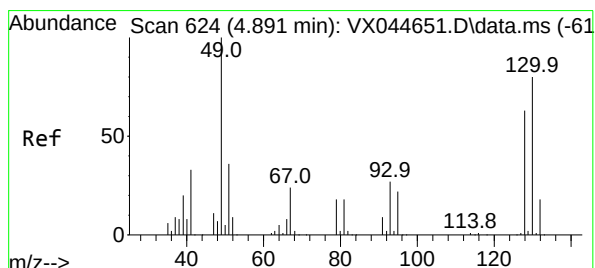
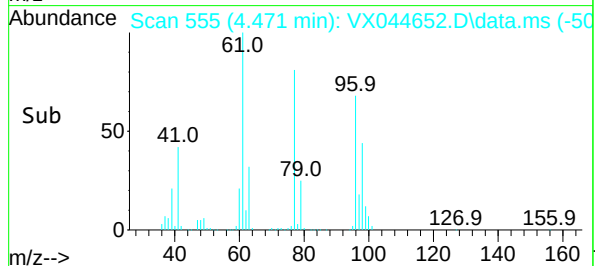
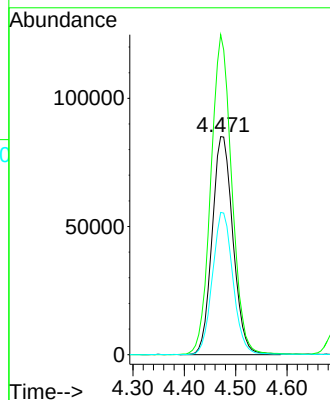
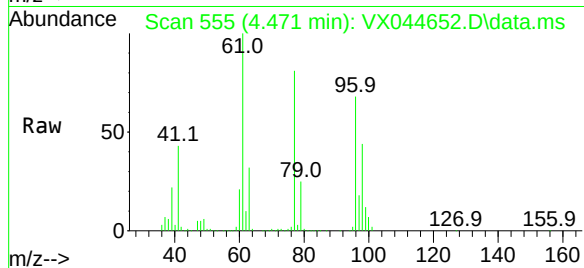
98 64.4 0.0 130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#28

Bromochloromethane

Concen: 96.041 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

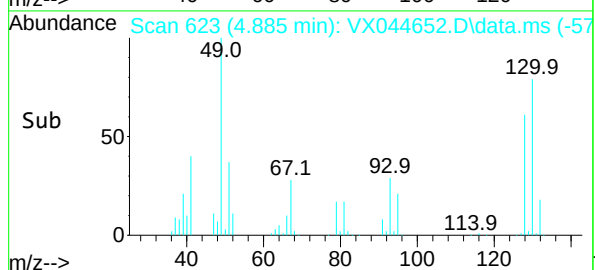
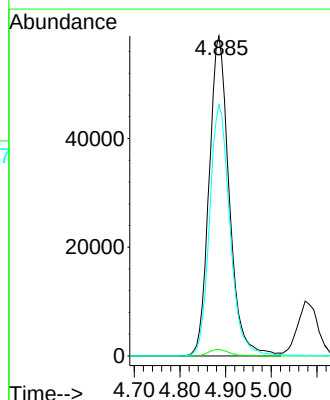
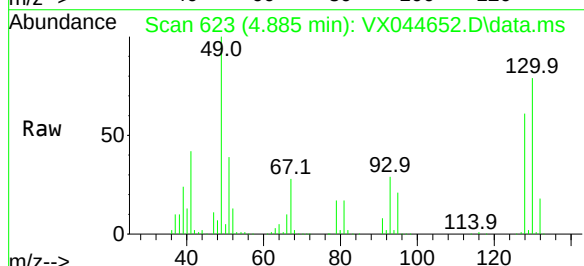
Tgt Ion: 49 Resp: 179896

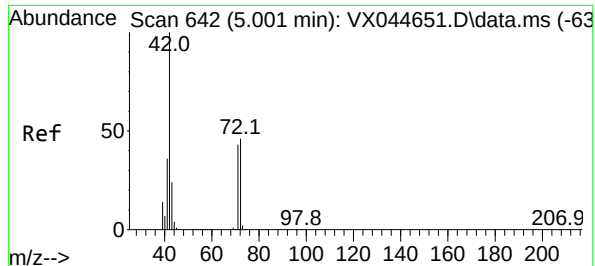
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.4

130 79.6 63.4 95.2





#29

Tetrahydrofuran

Concen: 488.500 ug/l

RT: 4.995 min Scan# 641

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 47722

Ion Ratio Lower Upper

42 100

72 47.6 38.2 57.4

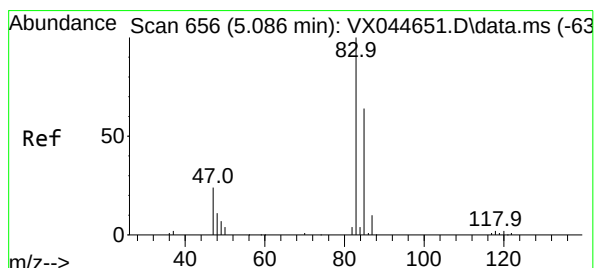
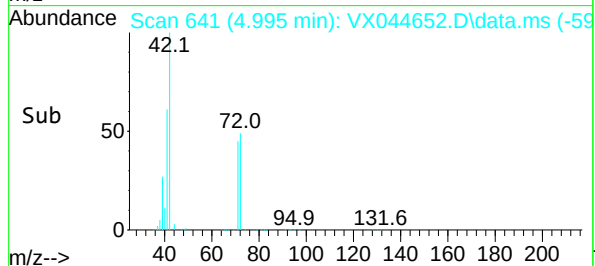
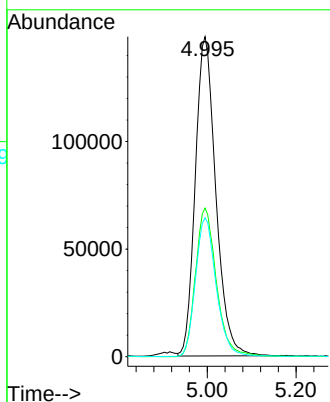
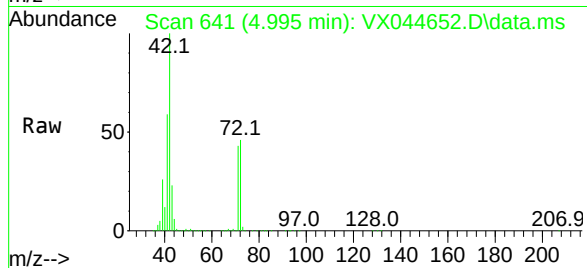
71 43.9 35.3 52.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#30

Chloroform

Concen: 92.373 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.006 min

Lab File: VX044652.D

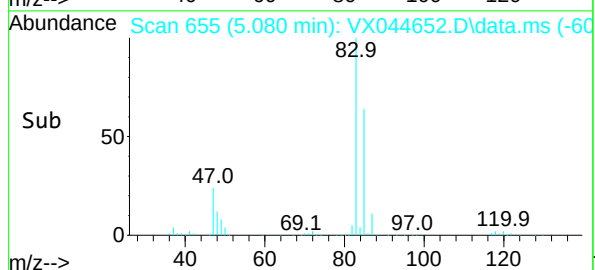
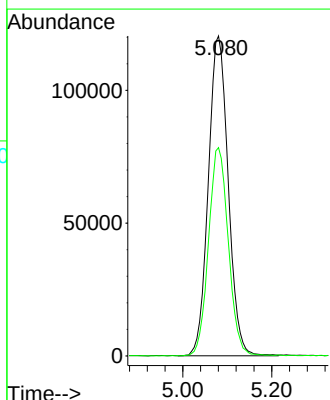
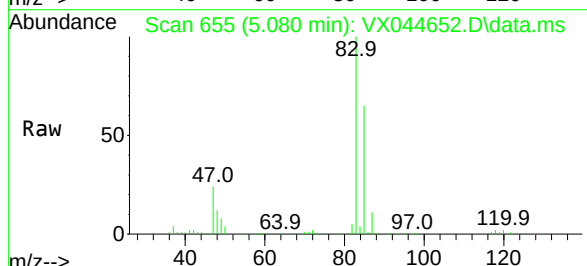
Acq: 15 Jan 2025 13:14

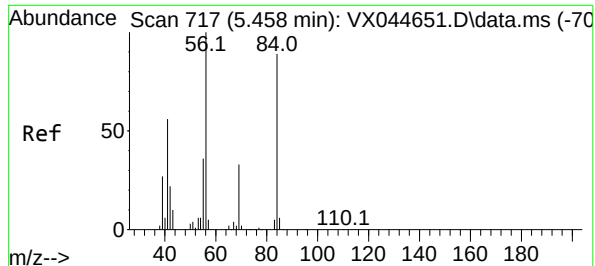
Tgt Ion: 83 Resp: 373681

Ion Ratio Lower Upper

83 100

85 65.1 51.2 76.8





#31

Cyclohexane

Concen: 98.436 ug/l

RT: 5.452 min Scan# 716

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 56 Resp: 31913

Ion Ratio Lower Upper

56 100

69 32.0 26.8 40.2

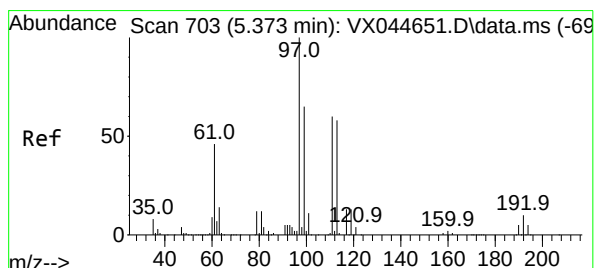
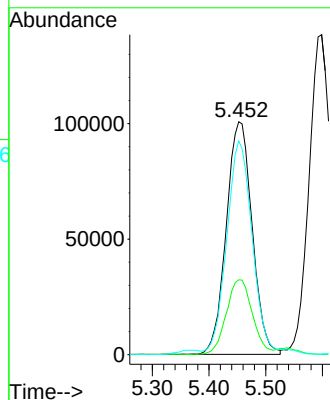
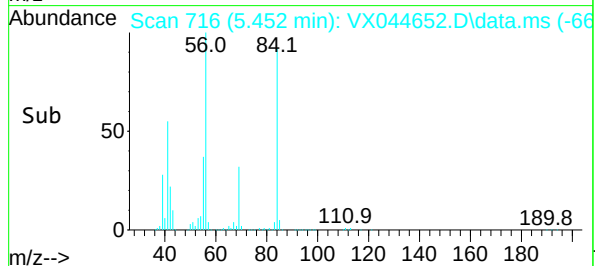
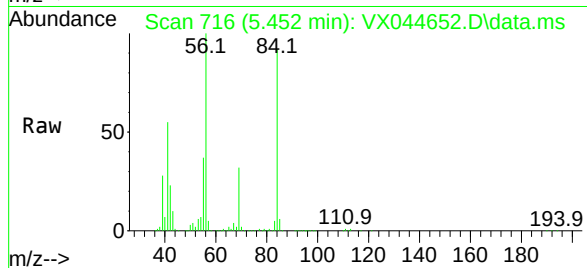
84 90.6 71.0 106.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#32

1,1,1-Trichloroethane

Concen: 90.918 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

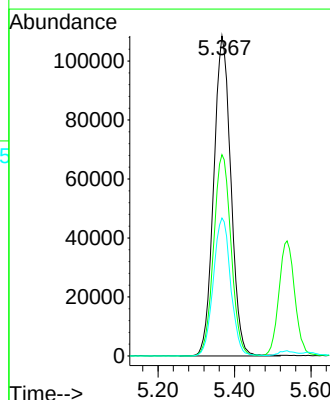
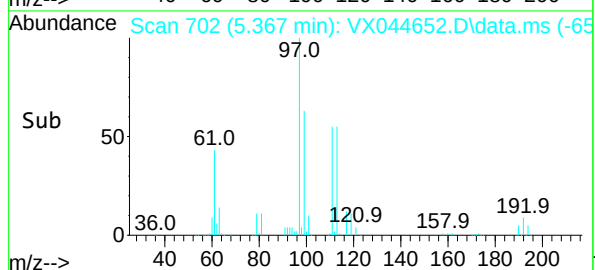
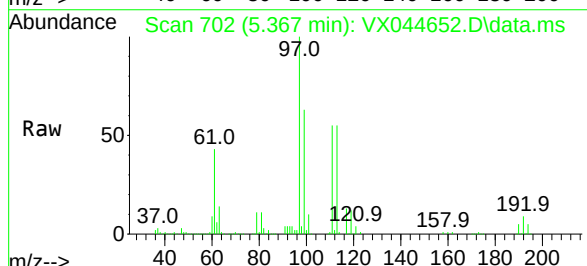
Tgt Ion: 97 Resp: 338119

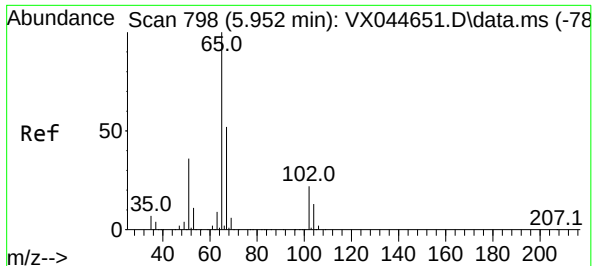
Ion Ratio Lower Upper

97 100

99 63.8 51.6 77.4

61 43.6 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 91.349 ug/l

RT: 5.940 min Scan# 798

Delta R.T. -0.012 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 65 Resp: 23519

Ion Ratio Lower Upper

65 100

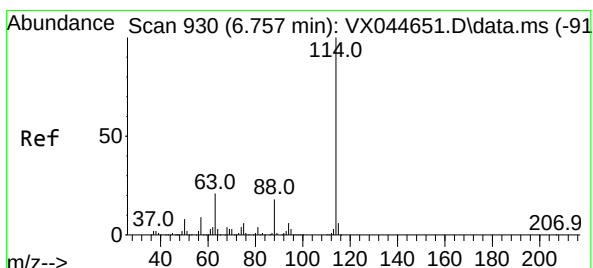
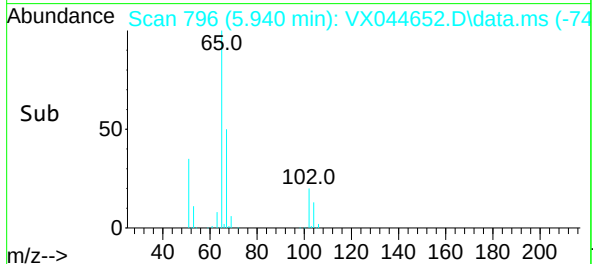
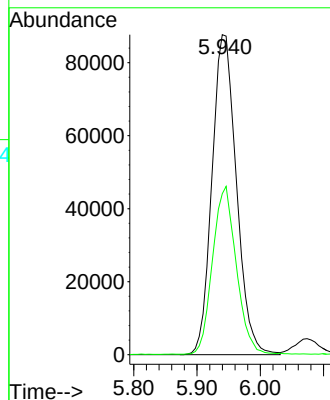
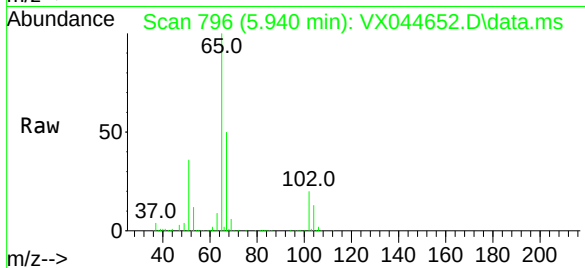
67 50.9 0.0 103.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

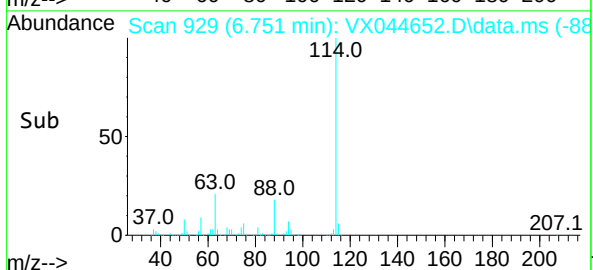
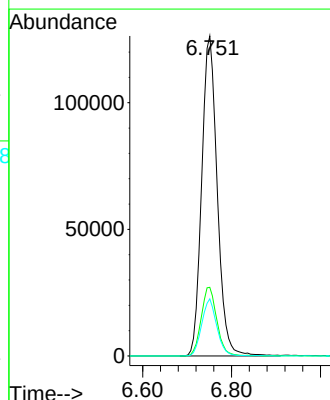
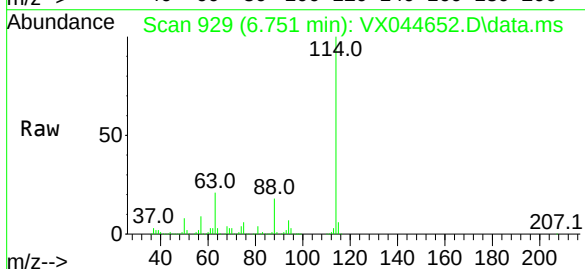
Tgt Ion:114 Resp: 308450

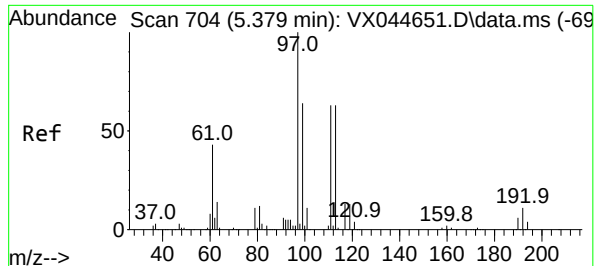
Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.0

88 17.8 0.0 35.4





#35

Dibromofluoromethane

Concen: 92.374 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 181010

Ion Ratio Lower Upper

113 100

111 103.1 81.6 122.4

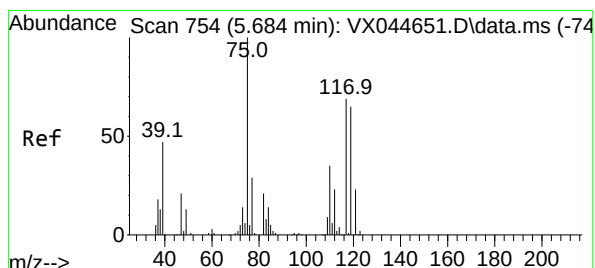
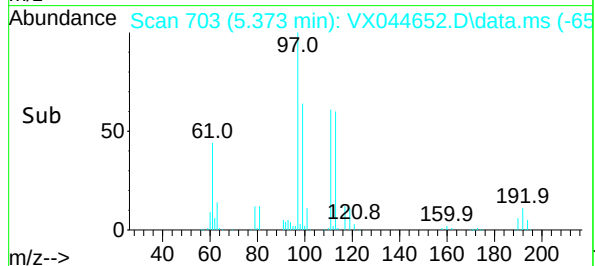
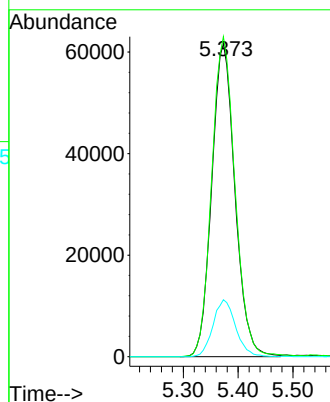
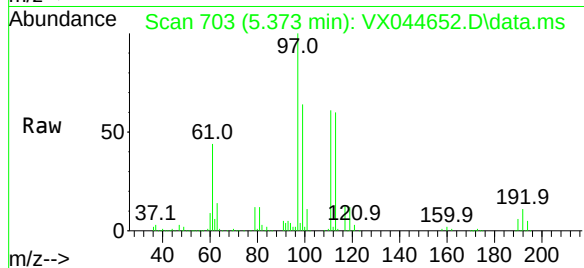
192 17.8 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#36

1,1-Dichloropropene

Concen: 93.746 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

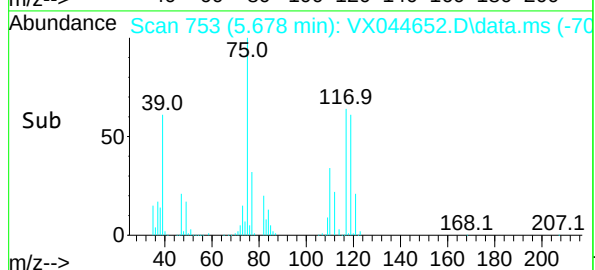
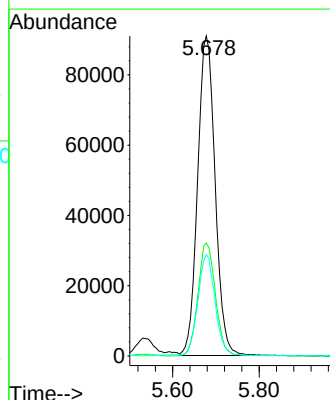
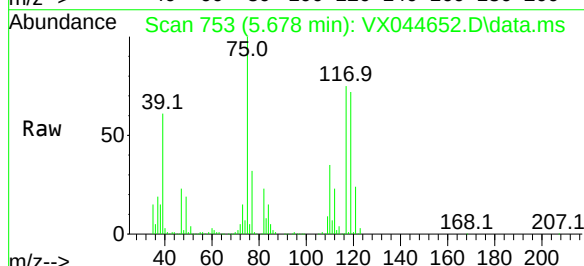
Tgt Ion: 75 Resp: 255714

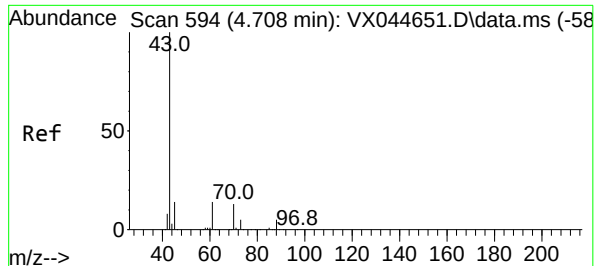
Ion Ratio Lower Upper

75 100

110 35.5 17.9 53.8

77 30.9 24.5 36.7





#37

Ethyl Acetate

Concen: 103.517 ug/l

RT: 4.702 min Scan# 593

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 300700

Ion Ratio Lower Upper

43 100

61 13.6 10.9 16.3

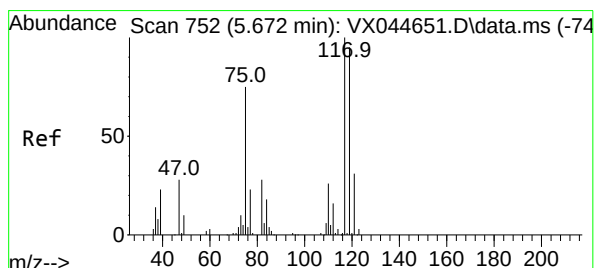
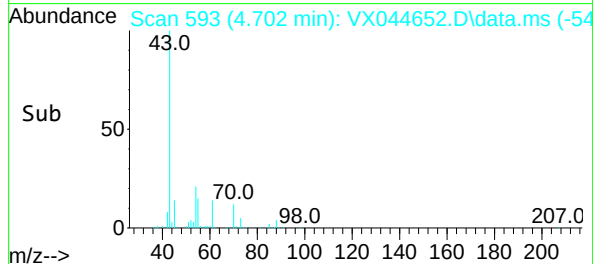
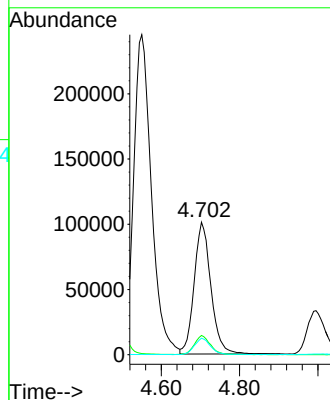
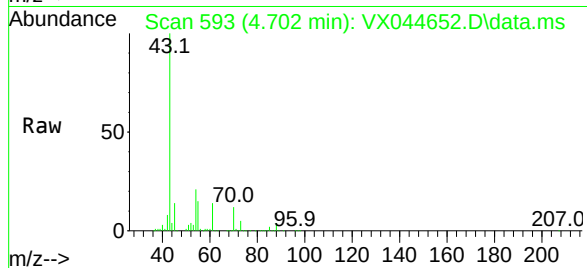
70 12.0 10.1 15.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#38

Carbon Tetrachloride

Concen: 93.555 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

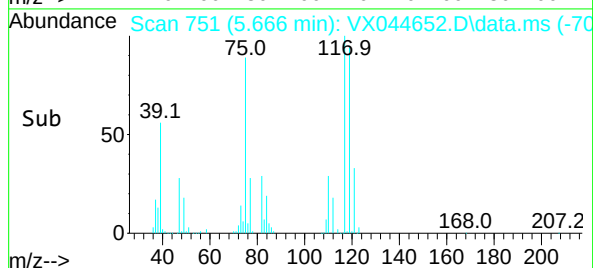
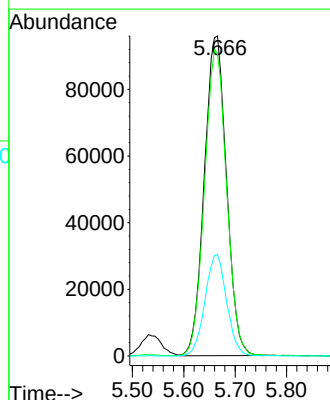
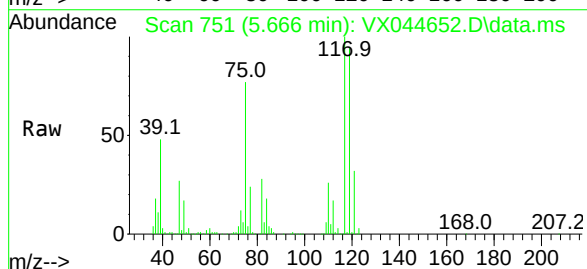
Tgt Ion:117 Resp: 287048

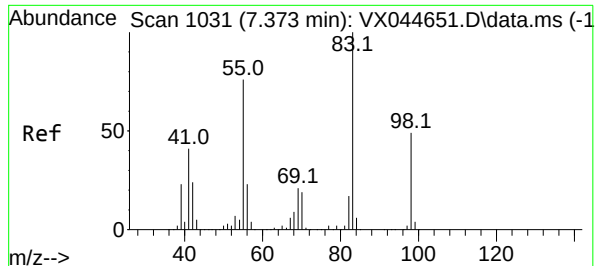
Ion Ratio Lower Upper

117 100

119 94.5 76.0 114.0

121 31.7 24.6 36.8





#39

Methylcyclohexane

Concen: 99.352 ug/l

RT: 7.367 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 359758

Ion Ratio Lower Upper

83 100

55 78.5 60.5 90.7

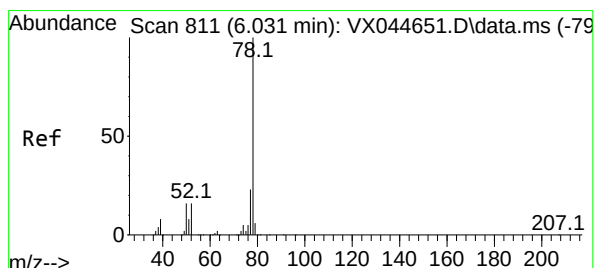
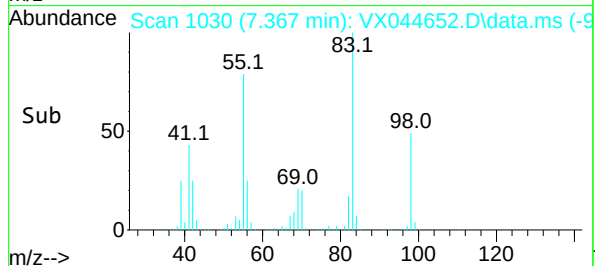
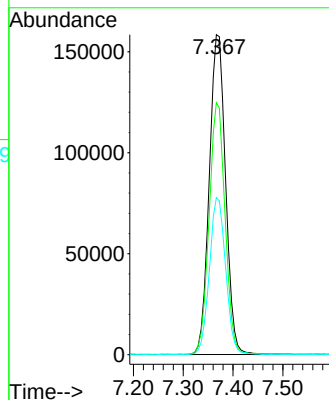
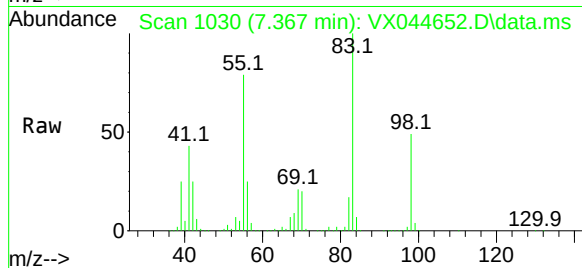
98 49.1 39.0 58.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#40

Benzene

Concen: 92.946 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.006 min

Lab File: VX044652.D

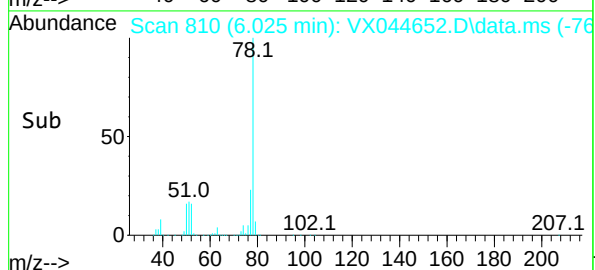
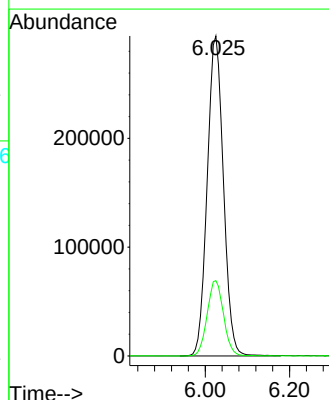
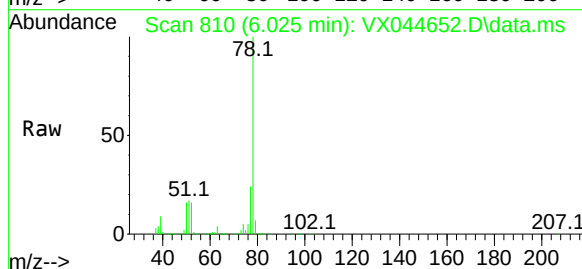
Acq: 15 Jan 2025 13:14

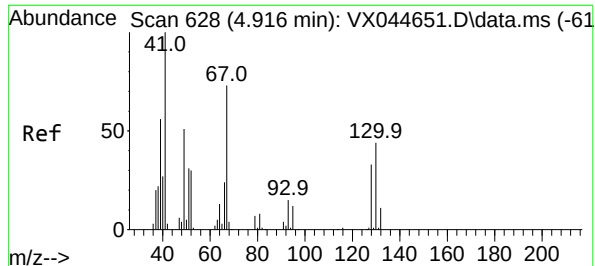
Tgt Ion: 78 Resp: 785626

Ion Ratio Lower Upper

78 100

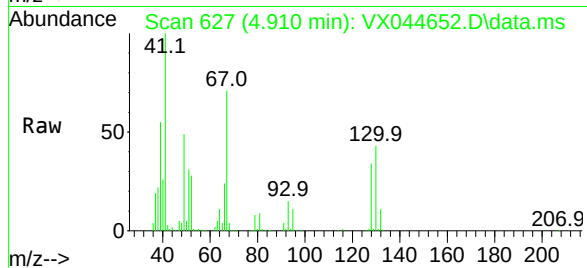
77 23.5 18.7 28.1





#41
Methacrylonitrile
Concen: 100.920 ug/l
RT: 4.910 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

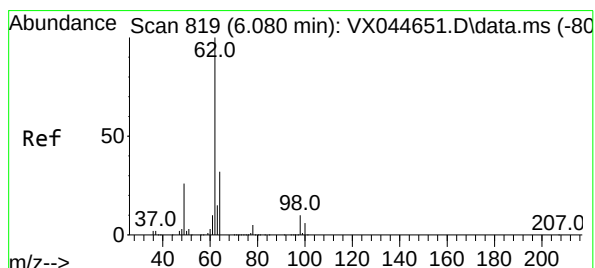
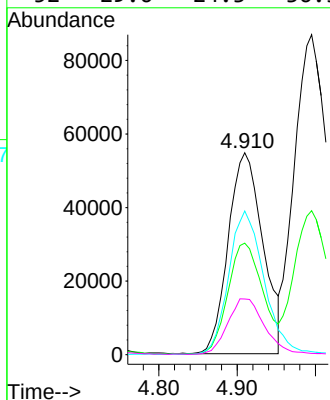
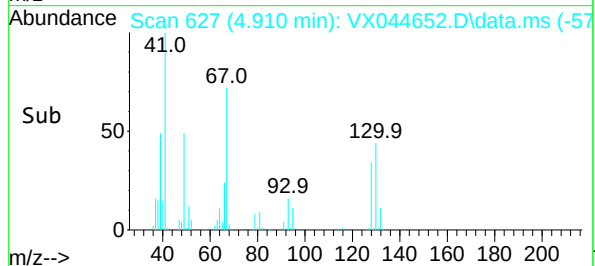
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 41 Resp: 16848
Ion Ratio Lower Upper
41 100
39 55.5 44.4 66.6
67 73.0 60.6 90.8
52 29.6 24.3 36.5

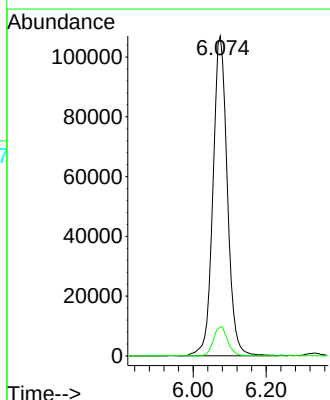
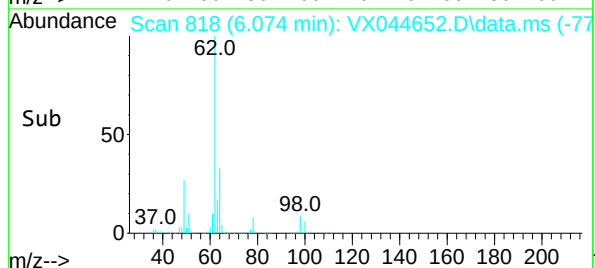
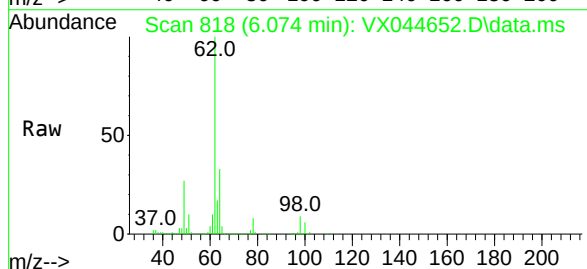
Manual Integrations
APPROVED

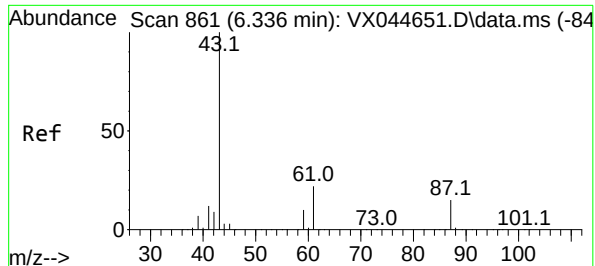
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#42
1,2-Dichloroethane
Concen: 94.663 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 62 Resp: 292036
Ion Ratio Lower Upper
62 100
98 9.2 0.0 19.4





#43

Isopropyl Acetate

Concen: 95.925 ug/l

RT: 6.330 min Scan# 861

Delta R.T. -0.006 min

Lab File: VX044652.D

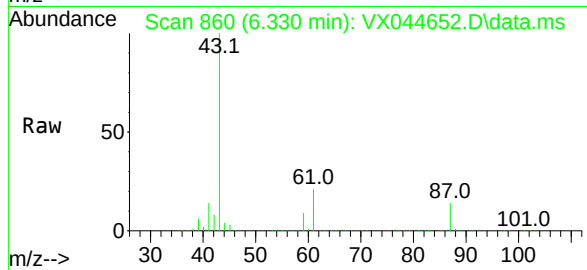
Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100



Tgt Ion: 43 Resp: 512598

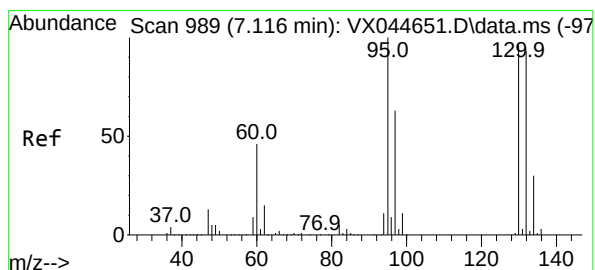
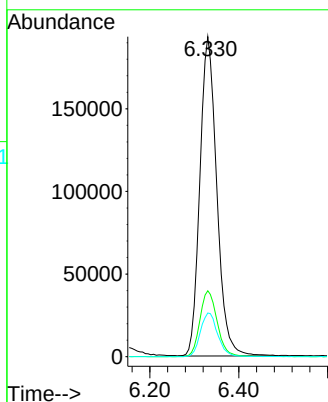
Ion	Ratio	Lower	Upper
43	100		
61	21.1	16.6	24.8
87	14.0	11.0	16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#44

Trichloroethene

Concen: 98.212 ug/l

RT: 7.117 min Scan# 989

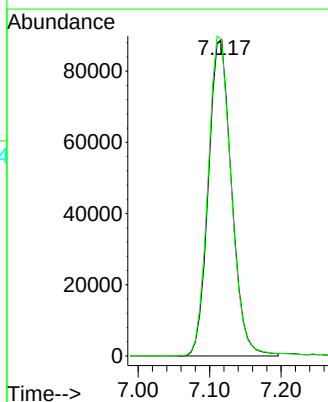
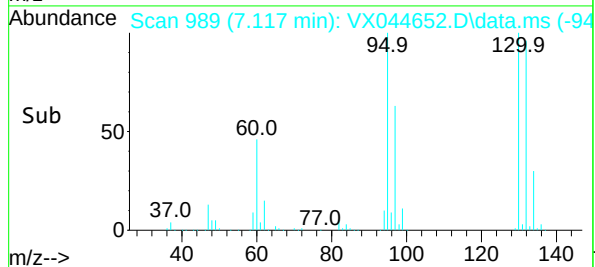
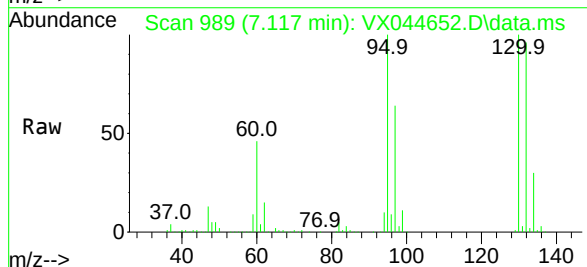
Delta R.T. 0.000 min

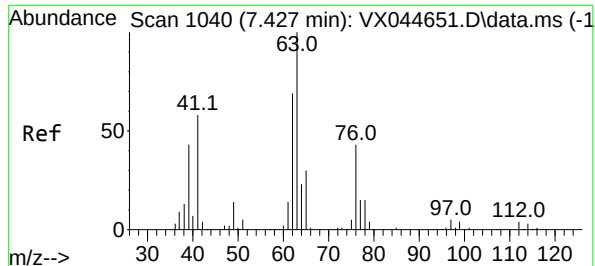
Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Tgt Ion:130 Resp: 199570

Ion	Ratio	Lower	Upper
130	100		
95	99.7	0.0	208.2





#45

1,2-Dichloropropane

Concen: 94.413 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 20087

Ion Ratio Lower Upper

63 100

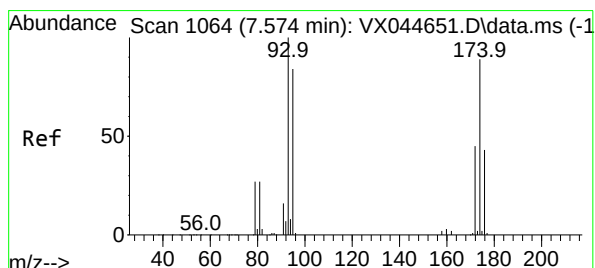
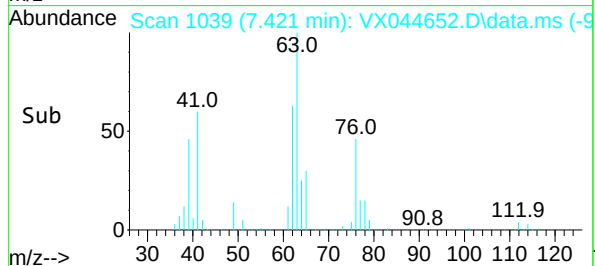
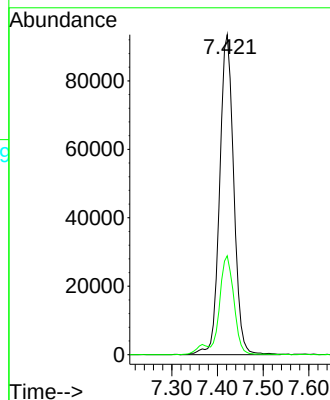
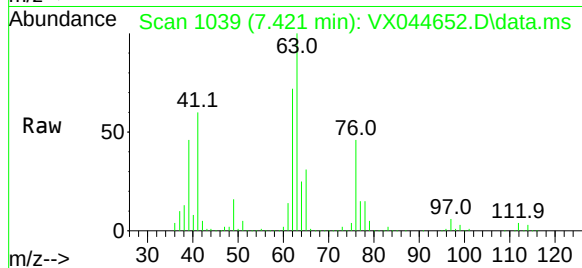
65 30.9 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#46

Dibromomethane

Concen: 92.680 ug/l

RT: 7.568 min Scan# 1063

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

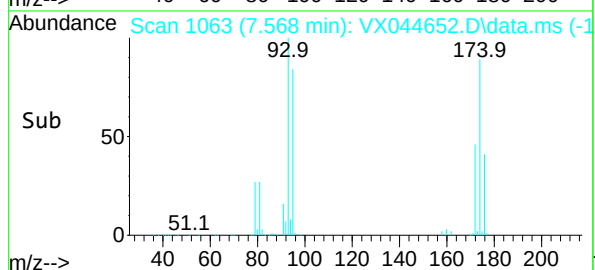
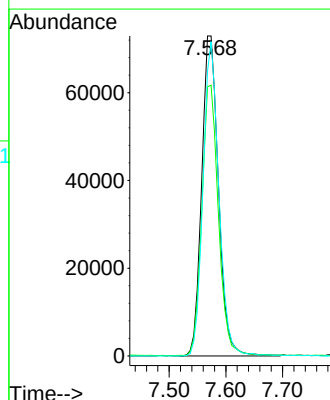
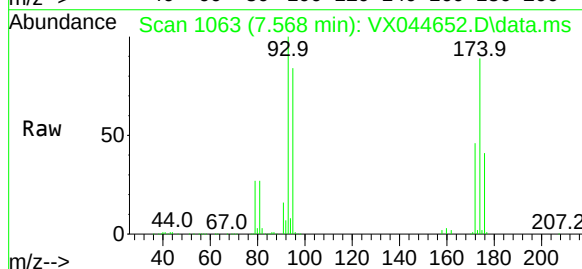
Tgt Ion: 93 Resp: 150112

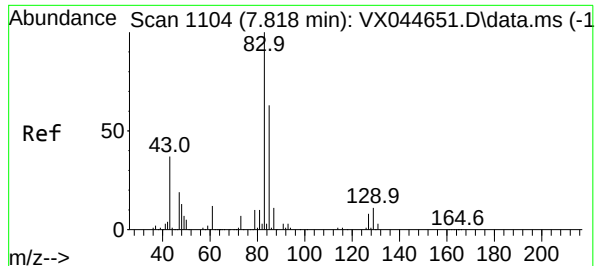
Ion Ratio Lower Upper

93 100

95 83.5 66.4 99.6

174 92.9 72.0 108.0





#47

Bromodichloromethane

Concen: 92.723 ug/l

RT: 7.812 min Scan# 1103

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 307990

Ion Ratio Lower Upper

83 100

85 63.3 50.1 75.1

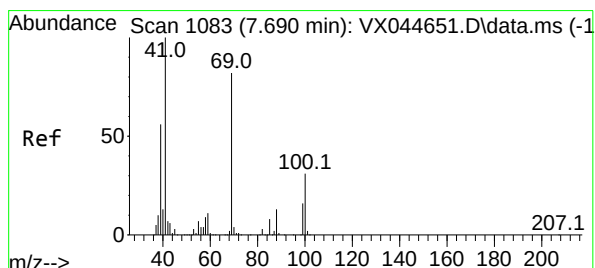
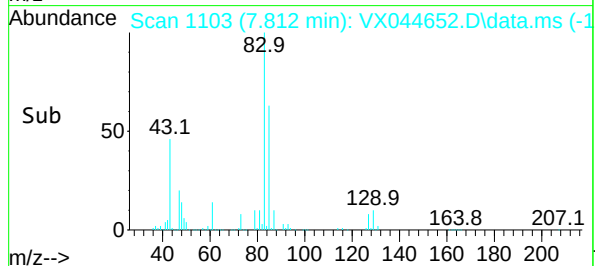
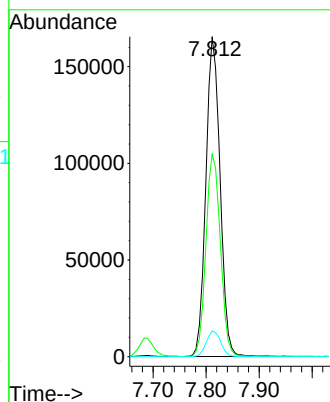
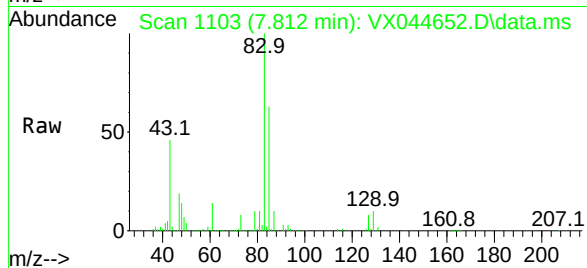
127 8.0 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#48

Methyl methacrylate

Concen: 100.250 ug/l

RT: 7.684 min Scan# 1082

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

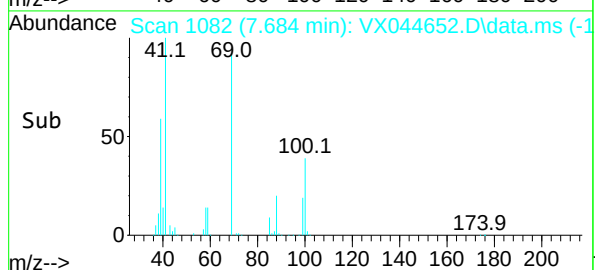
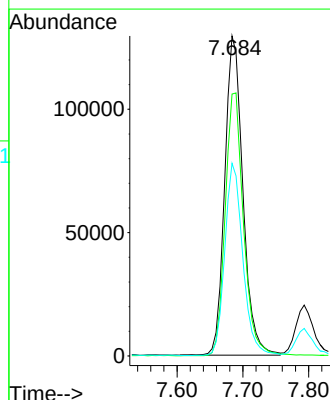
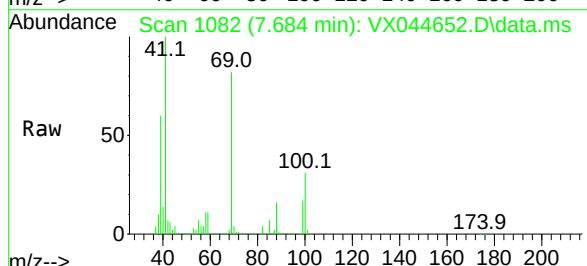
Tgt Ion: 41 Resp: 248667

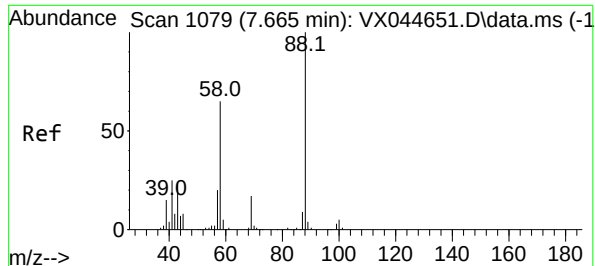
Ion Ratio Lower Upper

41 100

69 83.6 66.8 100.2

39 59.8 47.4 71.0





#49

1,4-Dioxane

Concen: 1959.056 ug/l

RT: 7.665 min Scan# 1079

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 88 Resp: 101384

Ion Ratio Lower Upper

88 100

43 33.1 27.0 40.4

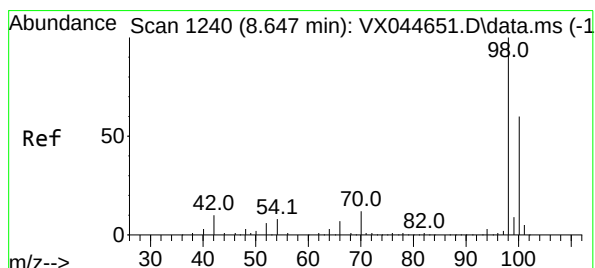
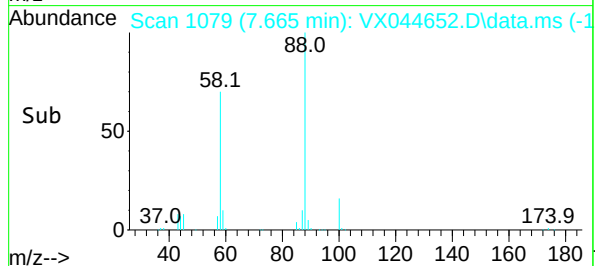
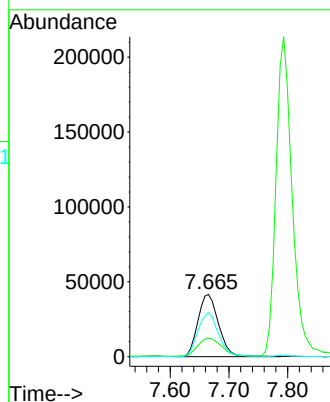
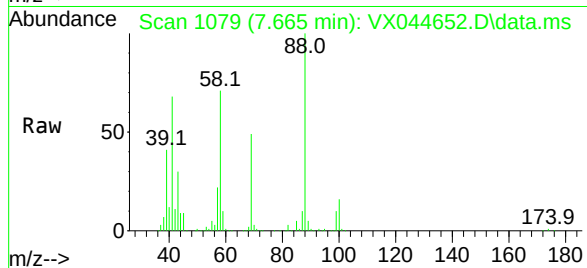
58 71.0 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#50

Toluene-d8

Concen: 90.404 ug/l

RT: 8.641 min Scan# 1239

Delta R.T. -0.006 min

Lab File: VX044652.D

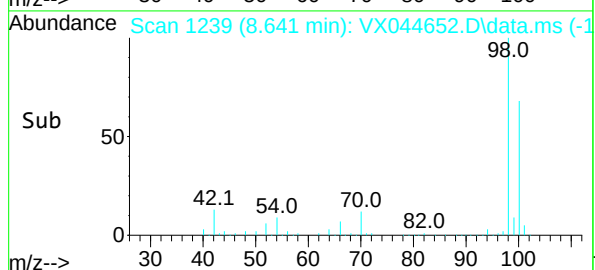
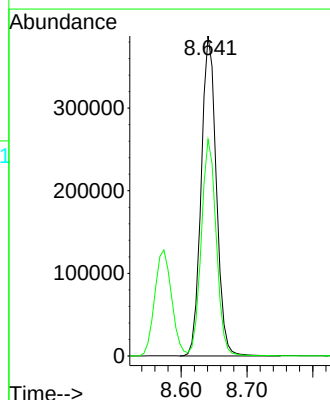
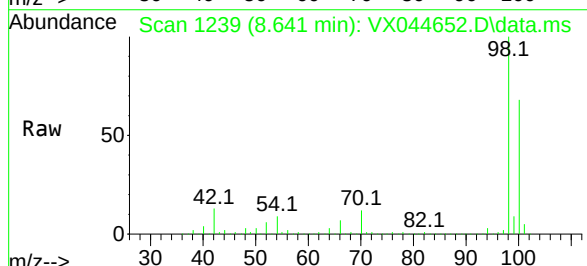
Acq: 15 Jan 2025 13:14

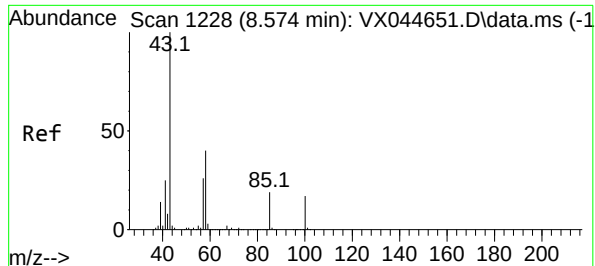
Tgt Ion: 98 Resp: 617688

Ion Ratio Lower Upper

98 100

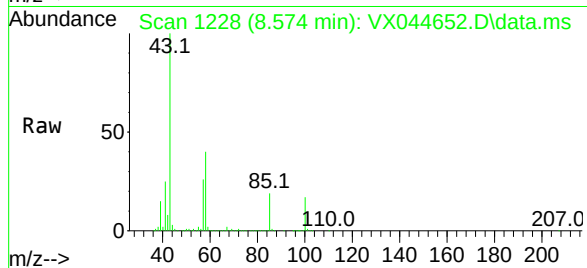
100 66.8 53.2 79.8





#51
4-Methyl-2-Pentanone
Concen: 464.897 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

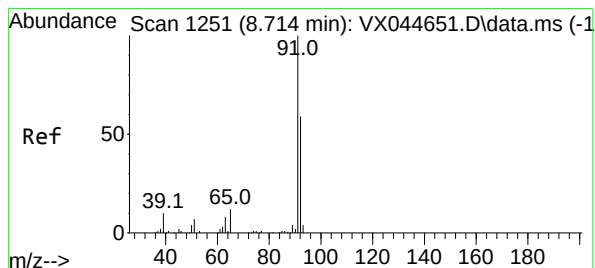
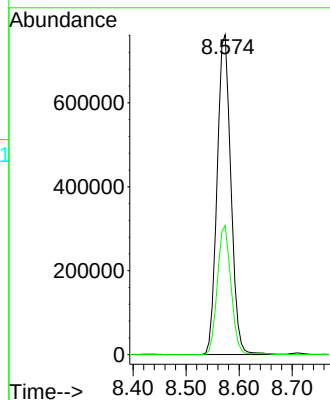
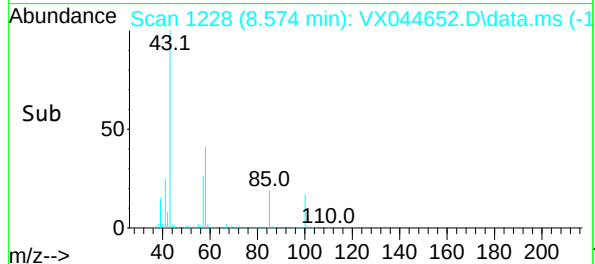
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 137288
Ion Ratio Lower Upper
43 100
58 40.0 31.9 47.9

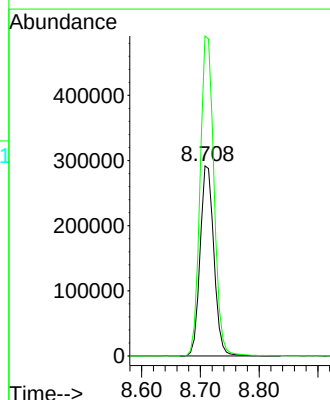
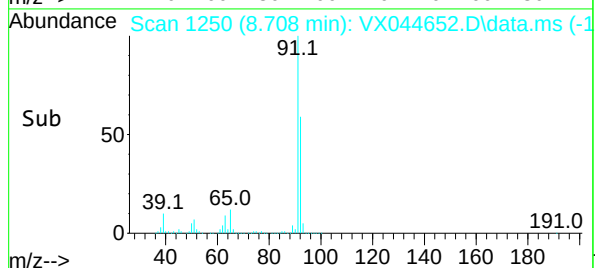
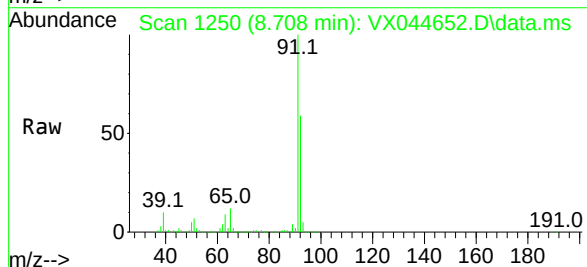
Manual Integrations
APPROVED

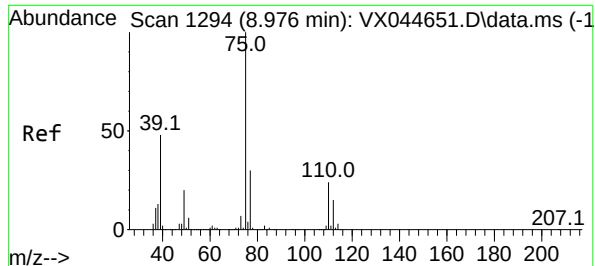
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#52
Toluene
Concen: 91.697 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 92 Resp: 474392
Ion Ratio Lower Upper
92 100
91 169.3 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 96.446 ug/l

RT: 8.970 min Scan# 1193

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 33098

Ion Ratio Lower Upper

75 100

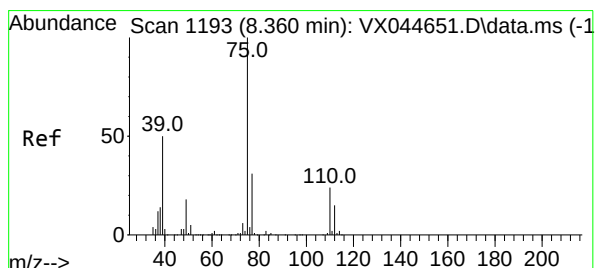
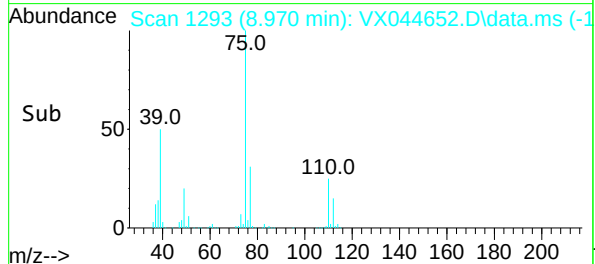
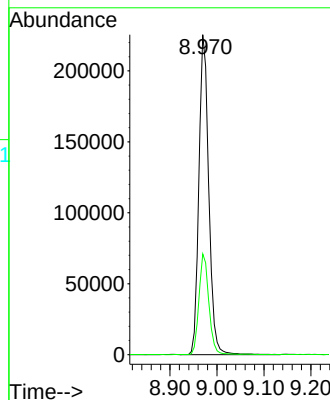
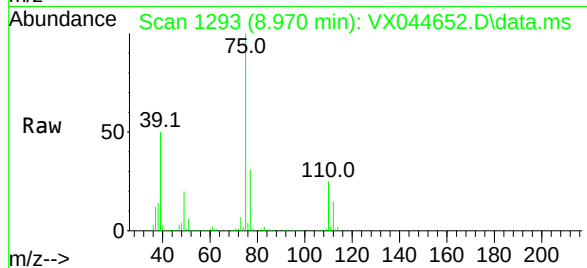
77 31.5 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#54

cis-1,3-Dichloropropene

Concen: 93.927 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

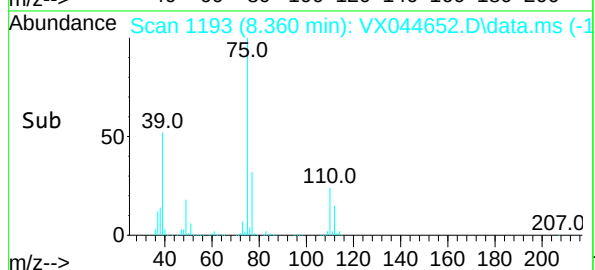
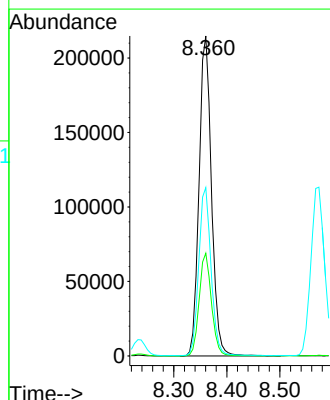
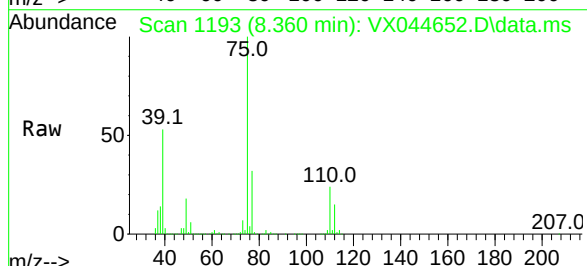
Tgt Ion: 75 Resp: 349516

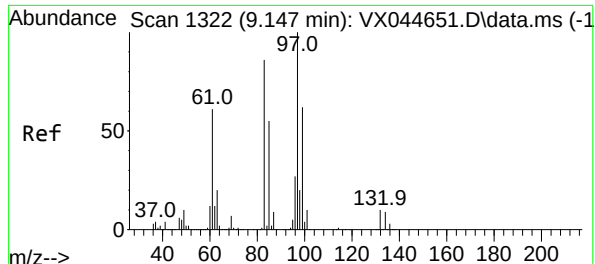
Ion Ratio Lower Upper

75 100

77 32.1 25.1 37.7

39 52.5 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 91.885 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 192320

Ion Ratio Lower Upper

97 100

83 83.1 68.8 103.2

85 53.4 43.7 65.5

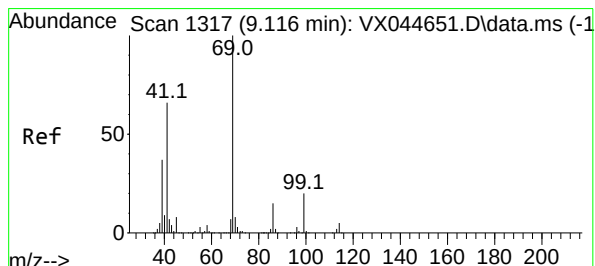
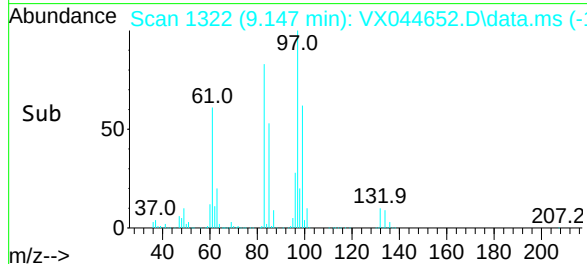
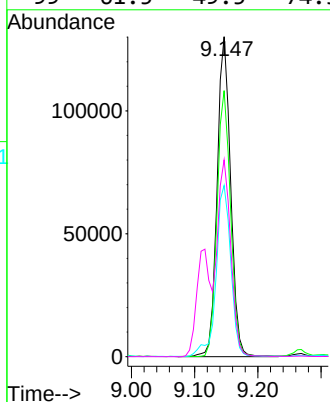
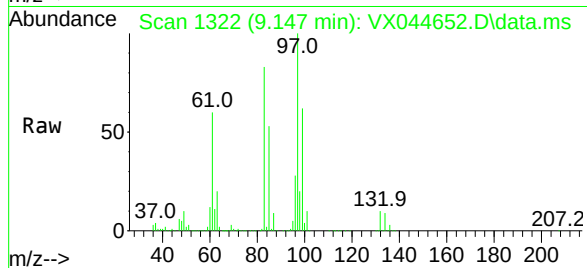
99 61.5 49.5 74.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#56

Ethyl methacrylate

Concen: 93.812 ug/l

RT: 9.110 min Scan# 1316

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

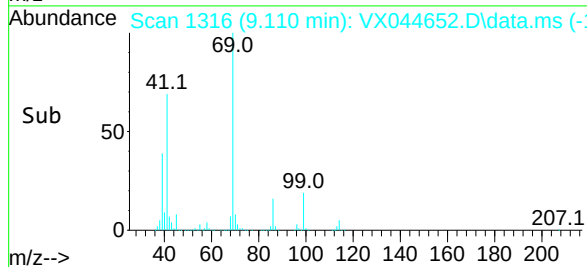
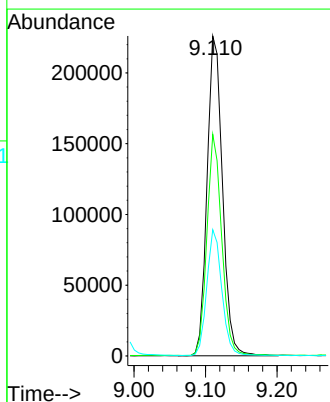
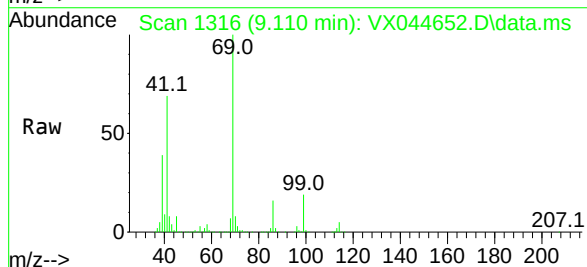
Tgt Ion: 69 Resp: 337626

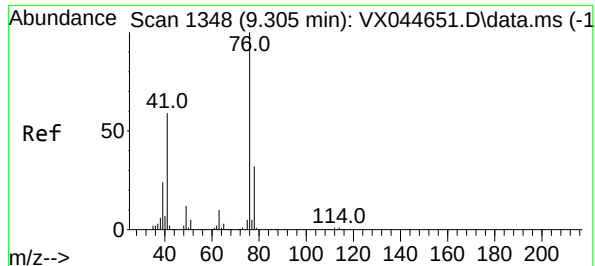
Ion Ratio Lower Upper

69 100

41 66.7 53.2 79.8

39 38.4 30.2 45.2





#57

1,3-Dichloropropane

Concen: 91.220 ug/l

RT: 9.305 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 76 Resp: 32514

Ion Ratio Lower Upper

76 100

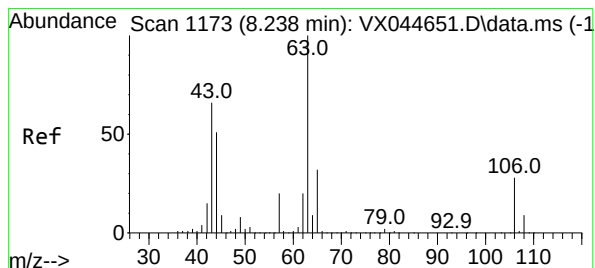
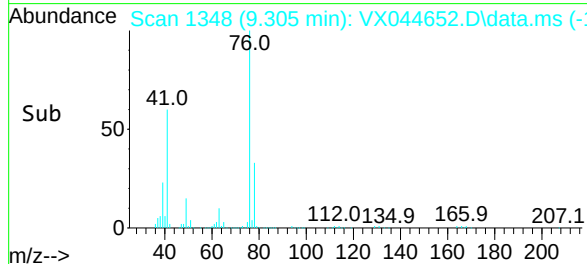
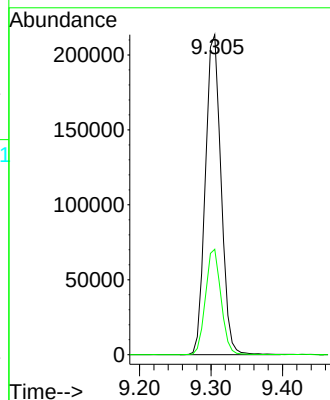
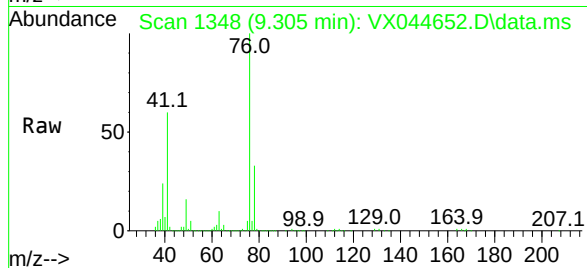
78 32.7 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 462.693 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044652.D

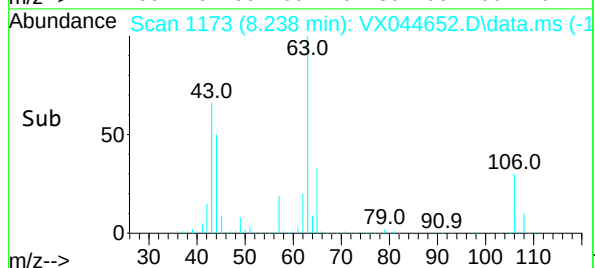
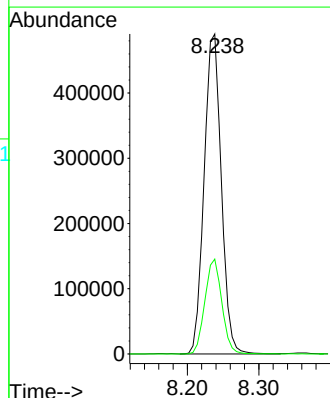
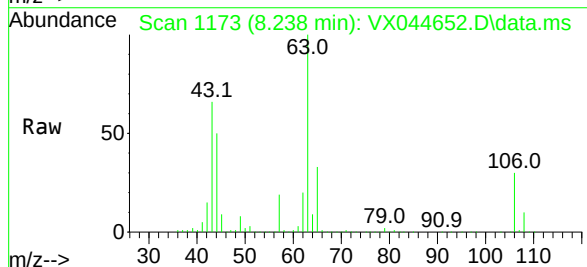
Acq: 15 Jan 2025 13:14

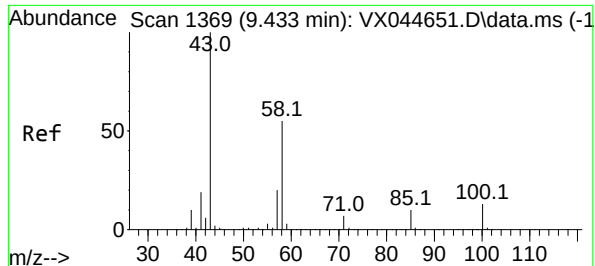
Tgt Ion: 63 Resp: 817528

Ion Ratio Lower Upper

63 100

106 29.3 23.0 34.6





#59

2-Hexanone

Concen: 469.454 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 1019940

Ion Ratio Lower Upper

43

100

58

55.0

71.0

27.8

85.1

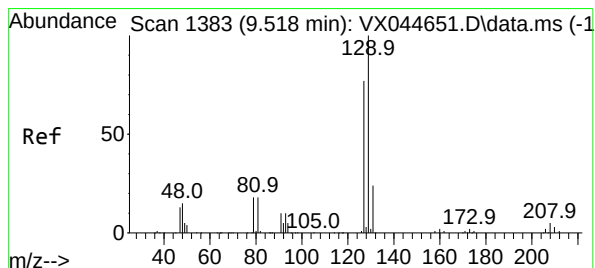
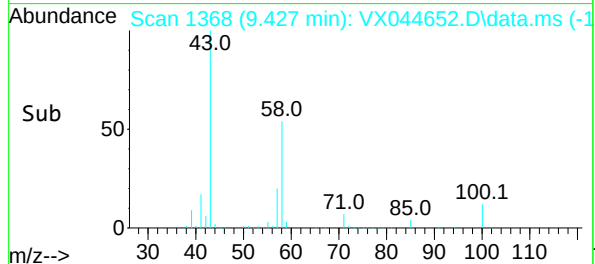
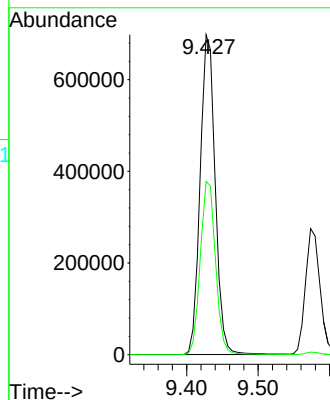
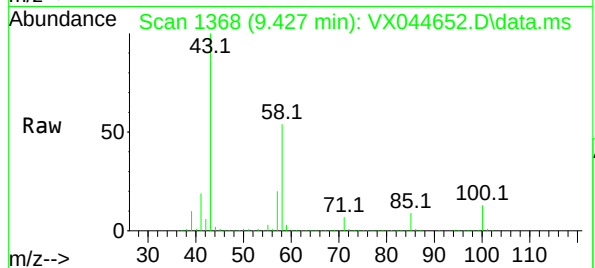
83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#60

Dibromochloromethane

Concen: 92.570 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Tgt Ion:129 Resp: 227418

Ion Ratio Lower Upper

129

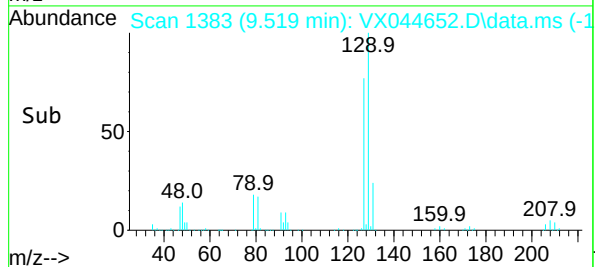
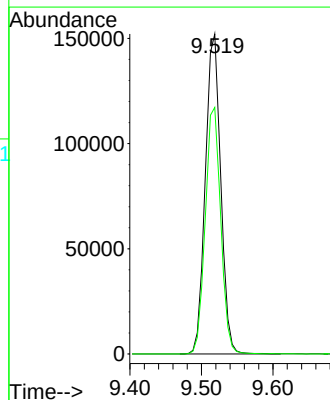
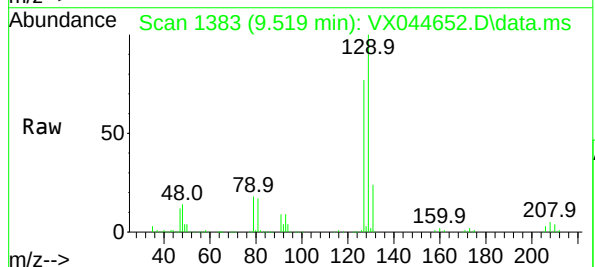
100

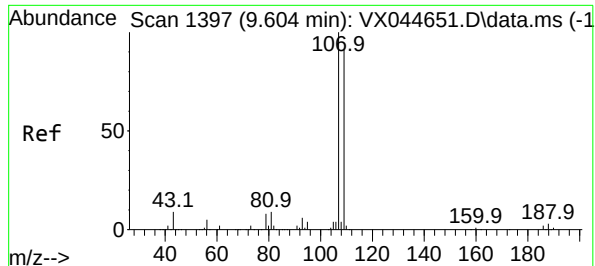
127

77.5

159.9

115.5





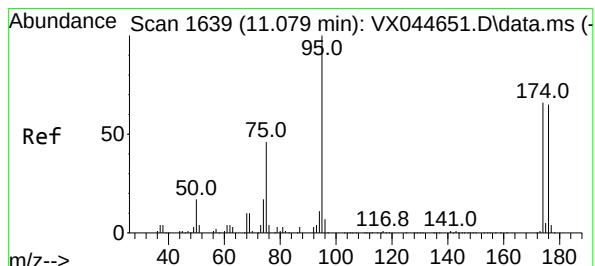
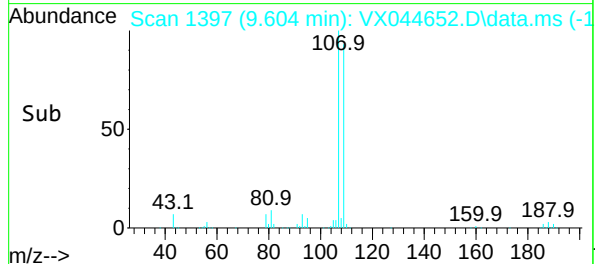
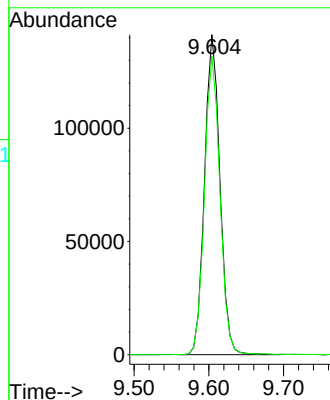
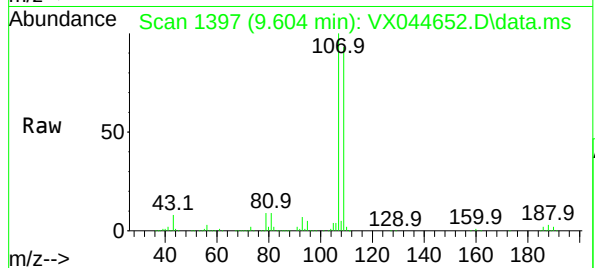
#61
1,2-Dibromoethane
Concen: 92.200 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:107 Resp: 20224
Ion Ratio Lower Upper
107 100
109 93.7 75.3 112.9

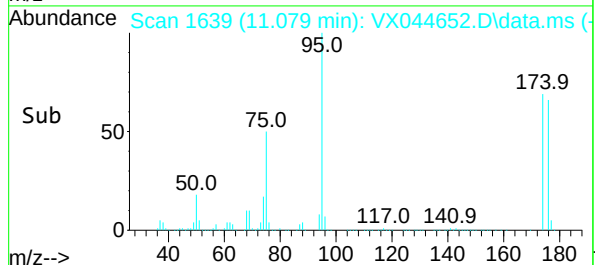
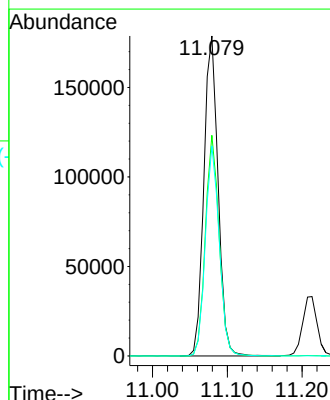
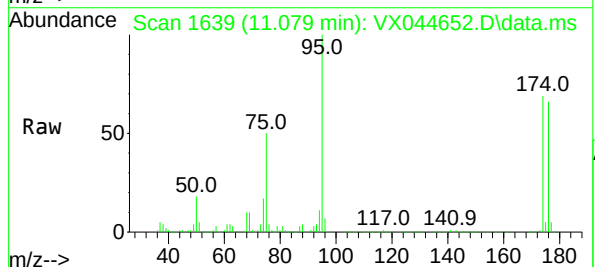
Manual Integrations
APPROVED

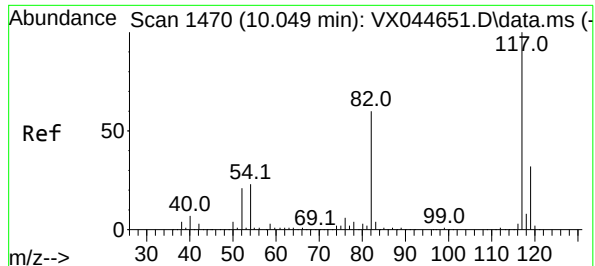
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#62
4-Bromofluorobenzene
Concen: 92.702 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 95 Resp: 236119
Ion Ratio Lower Upper
95 100
174 66.9 0.0 133.0
176 64.0 0.0 129.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:117 Resp: 25588

Ion Ratio Lower Upper

117 100

82 58.3 47.6 71.4

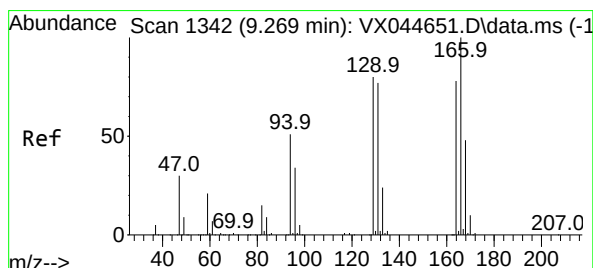
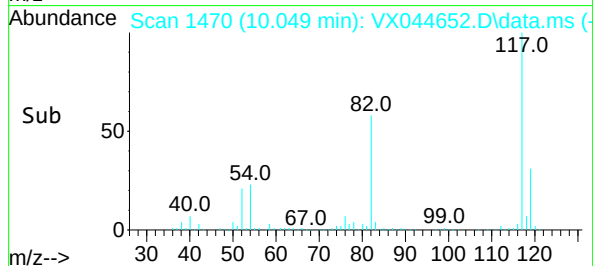
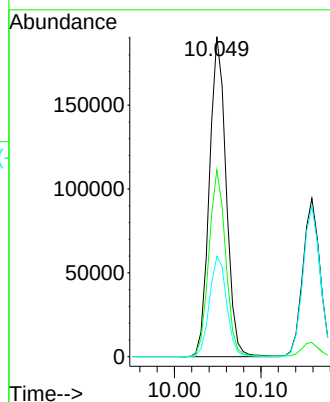
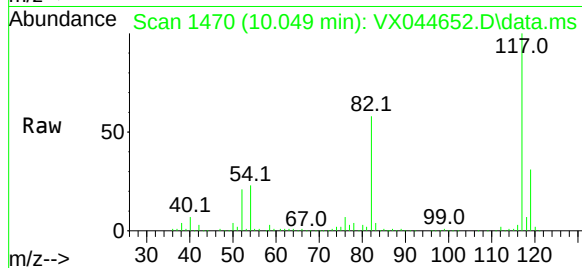
119 31.3 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#64

Tetrachloroethene

Concen: 98.176 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Tgt Ion:164 Resp: 157748

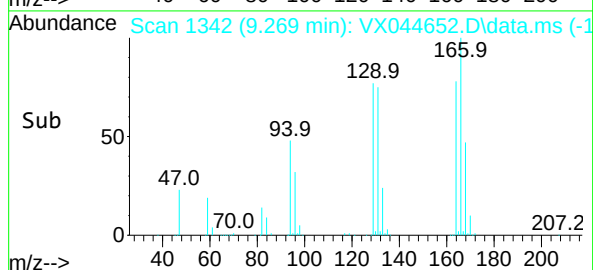
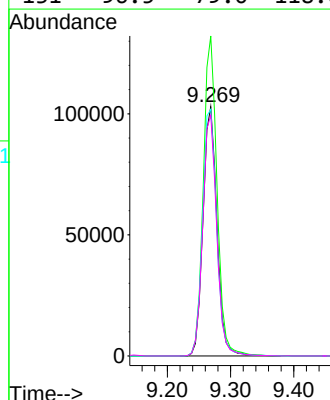
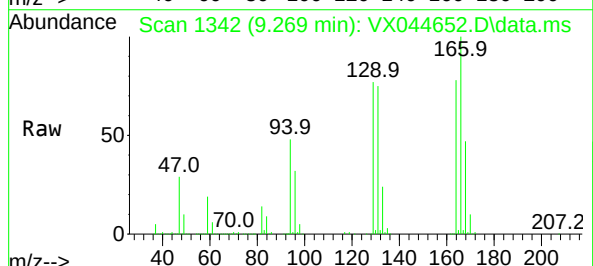
Ion Ratio Lower Upper

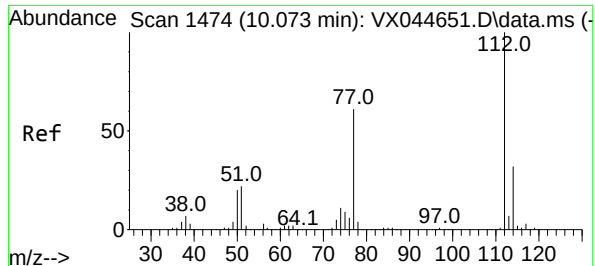
164 100

166 128.4 102.0 153.0

129 98.9 81.1 121.7

131 96.5 79.0 118.6





#65

Chlorobenzene

Concen: 94.003 ug/l

RT: 10.073 min Scan# 1474

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:112 Resp: 510910

Ion Ratio Lower Upper

112 100

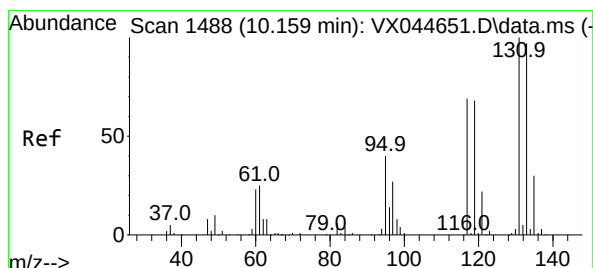
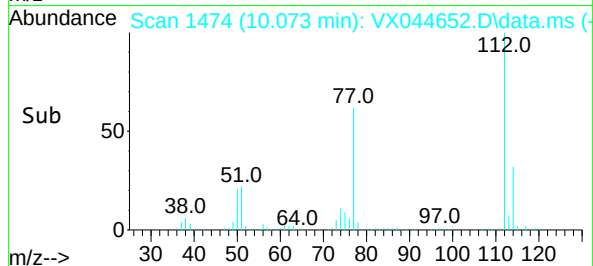
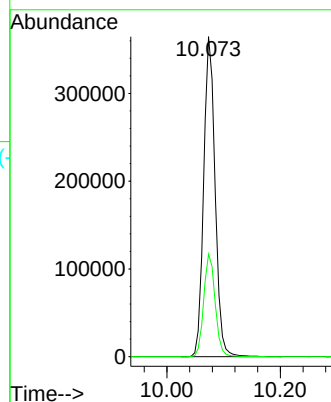
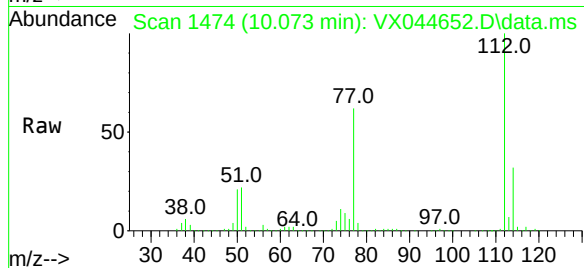
114 32.0 25.3 37.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 93.565 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

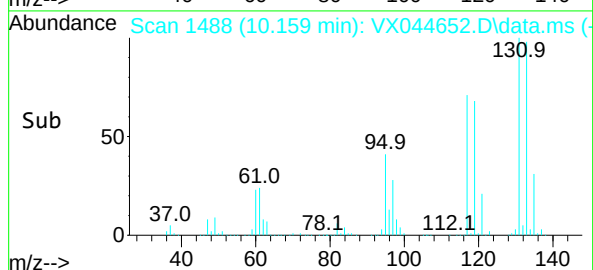
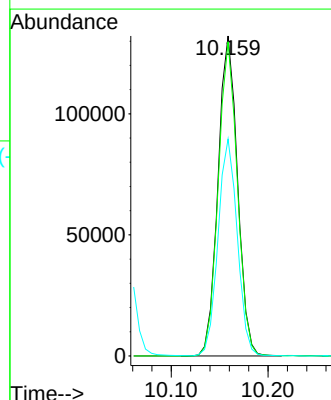
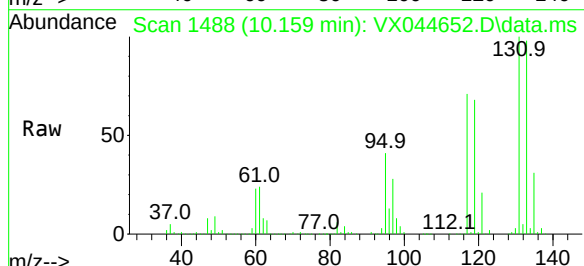
Tgt Ion:131 Resp: 184816

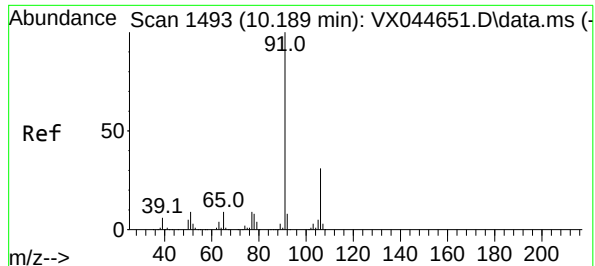
Ion Ratio Lower Upper

131 100

133 96.0 47.8 143.3

119 67.1 33.4 100.2





#67

Ethyl Benzene

Concen: 95.872 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 909208

Ion Ratio Lower Upper

91 100

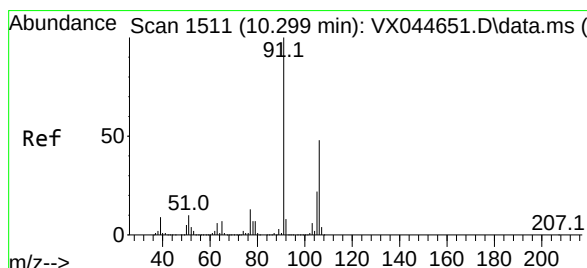
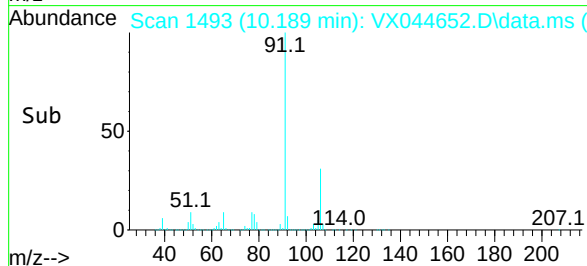
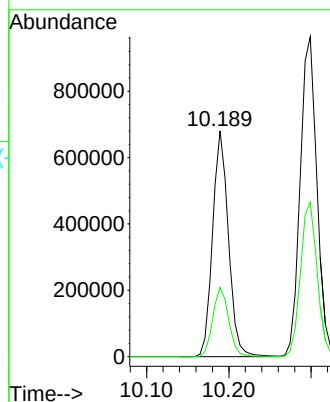
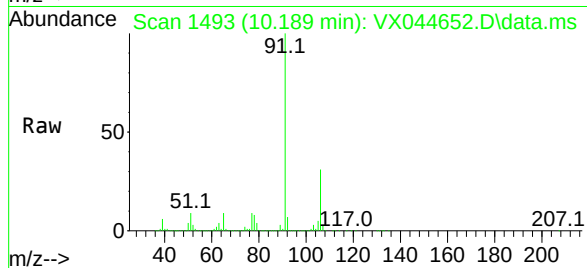
106 30.7 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#68

m/p-Xylenes

Concen: 187.963 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044652.D

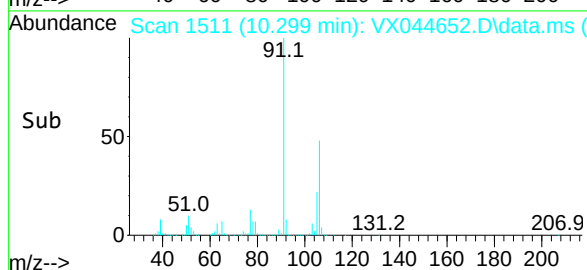
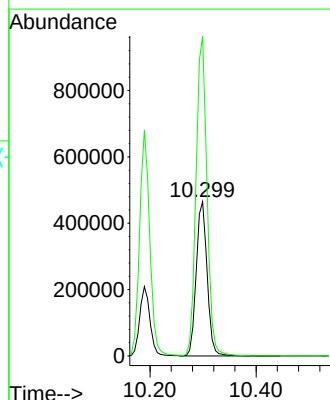
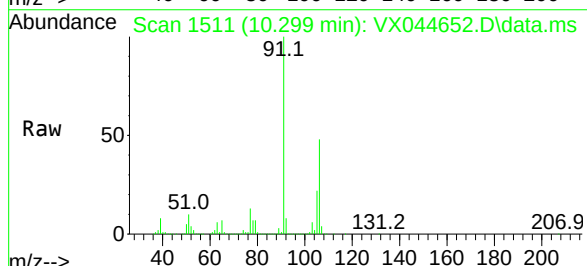
Acq: 15 Jan 2025 13:14

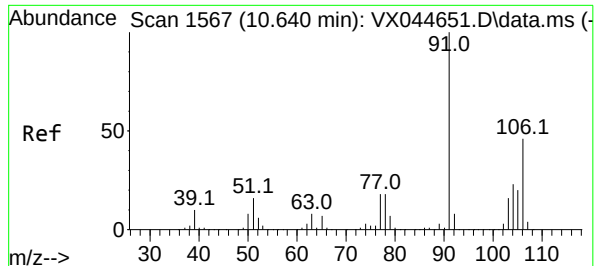
Tgt Ion:106 Resp: 661488

Ion Ratio Lower Upper

106 100

91 207.9 166.4 249.6





#69

o-Xylene

Concen: 92.536 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:106 Resp: 329330

Ion Ratio Lower Upper

106 100

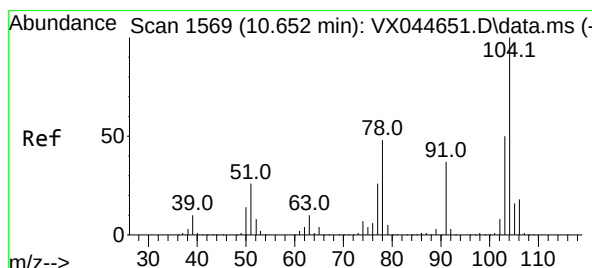
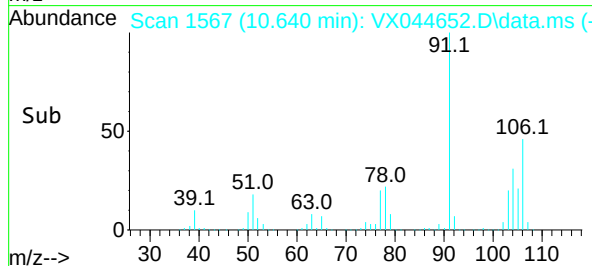
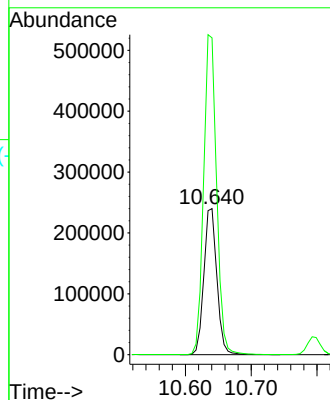
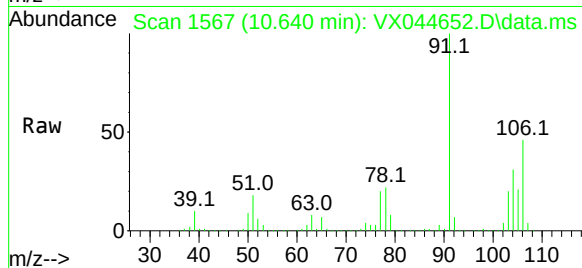
91 218.7 108.7 326.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#70

Styrene

Concen: 95.197 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

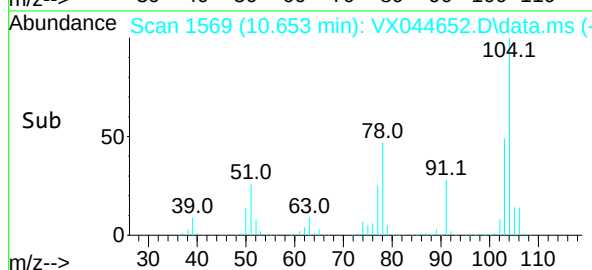
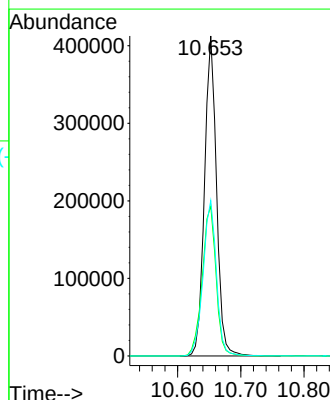
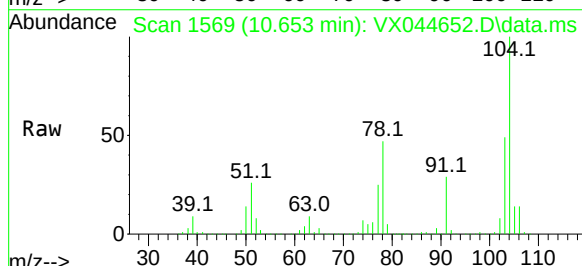
Tgt Ion:104 Resp: 547016

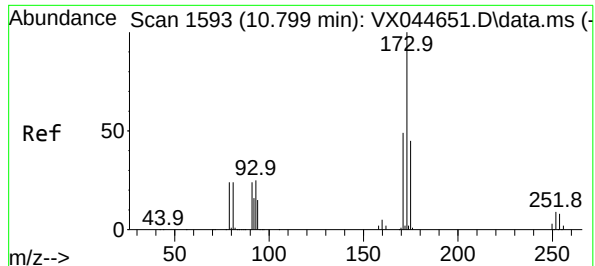
Ion Ratio Lower Upper

104 100

78 53.9 43.0 64.6

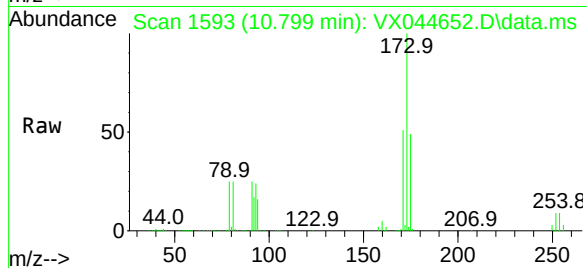
103 54.1 43.4 65.2





#71
Bromoform
Concen: 96.648 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

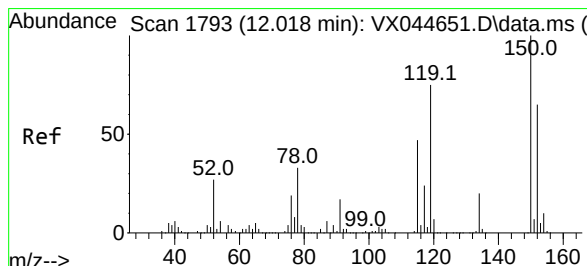
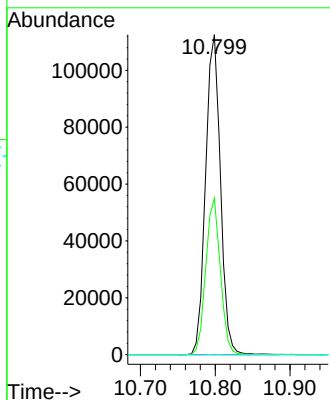
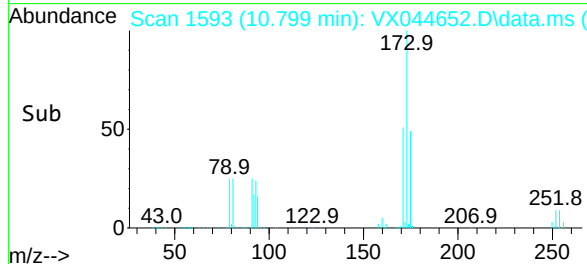
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:173 Resp: 155379
Ion Ratio Lower Upper
173 100
175 48.0 23.6 70.8
254 0.1 0.1 0.1

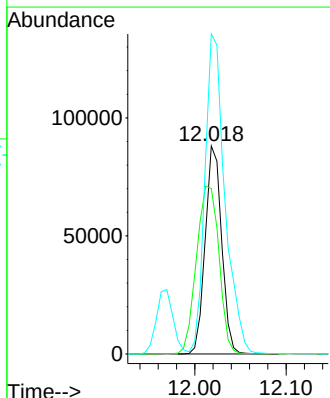
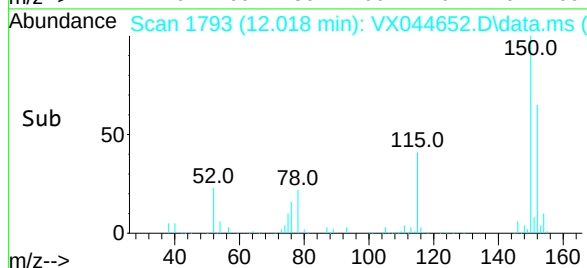
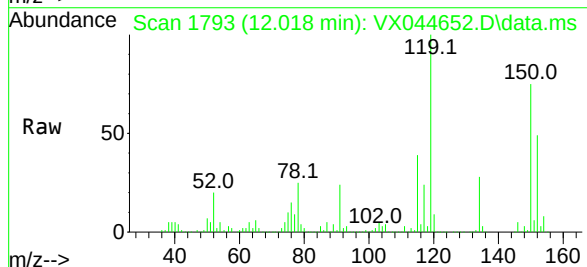
Manual Integrations
APPROVED

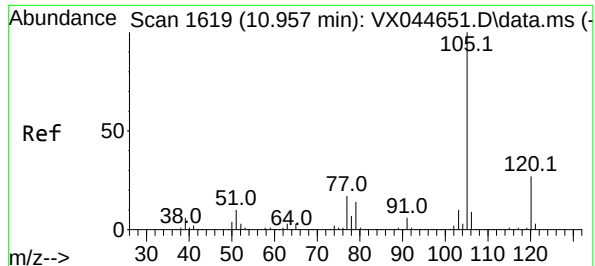
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

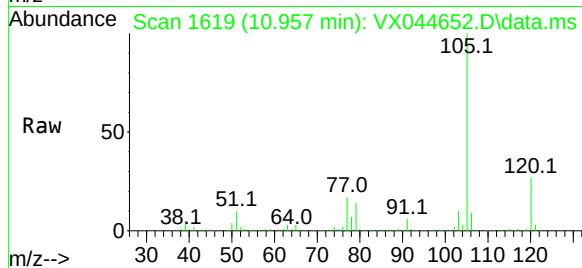
Tgt Ion:152 Resp: 110019
Ion Ratio Lower Upper
152 100
115 110.6 43.8 131.4
150 186.5 0.0 347.8





#73
Isopropylbenzene
Concen: 92.779 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

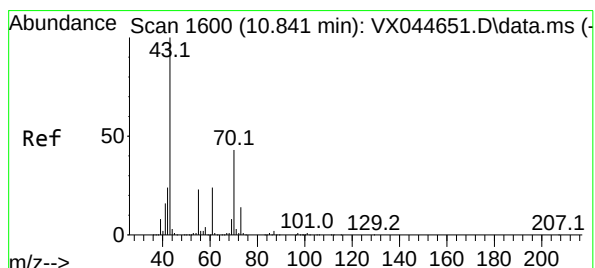
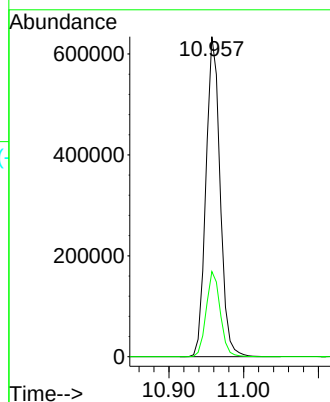
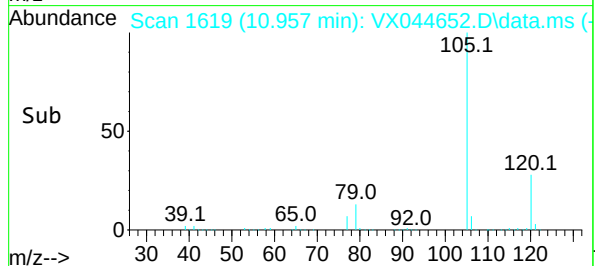
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:105 Resp: 833874
Ion Ratio Lower Upper
105 100
120 26.4 13.2 39.6

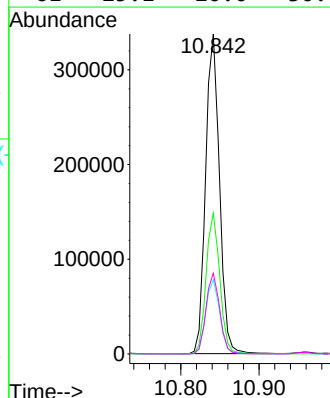
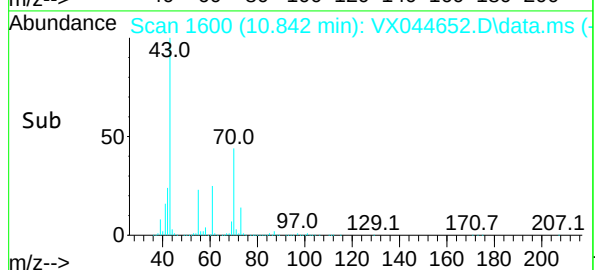
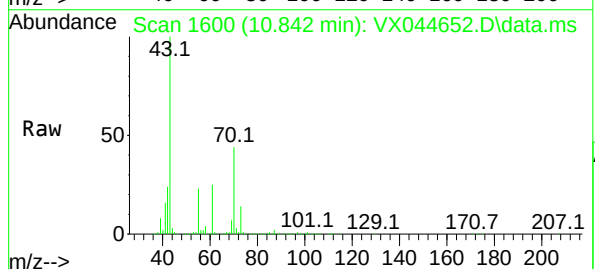
Manual Integrations
APPROVED

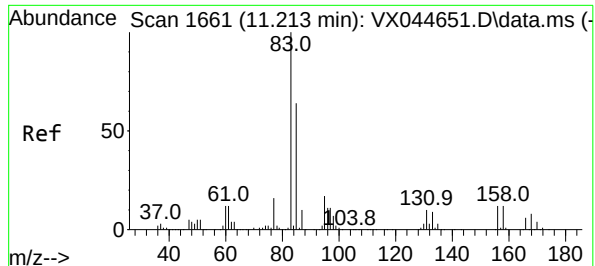
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#74
N-ethyl acetate
Concen: 93.463 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

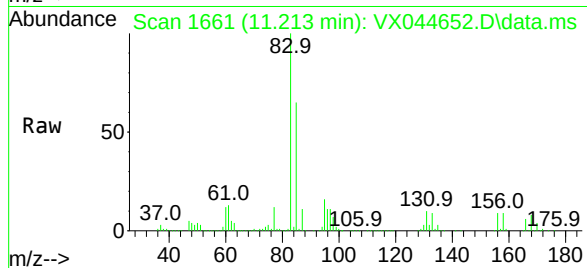
Tgt Ion: 43 Resp: 414046
Ion Ratio Lower Upper
43 100
70 43.5 35.2 52.8
55 23.3 19.0 28.4
61 25.1 20.0 30.0





#75
1,1,2,2-Tetrachloroethane
Concen: 89.776 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

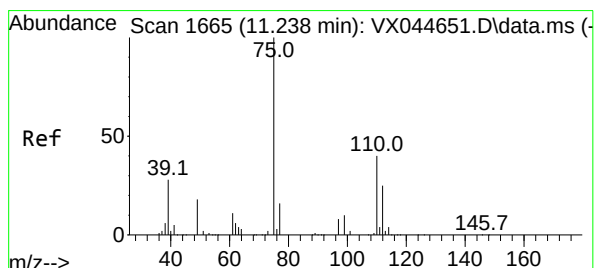
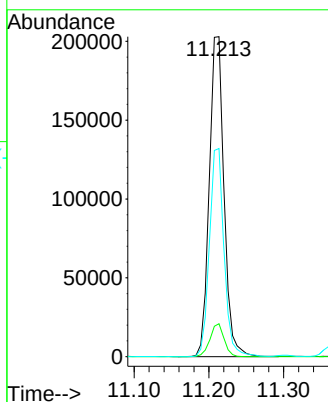
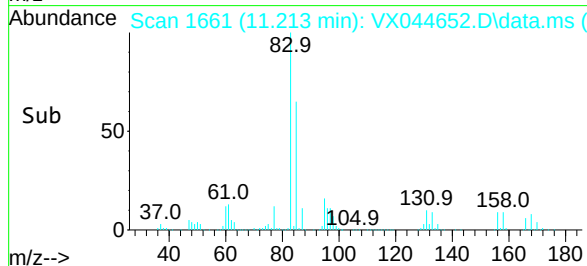
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



Tgt Ion: 83 Resp: 278679
Ion Ratio Lower Upper
83 100
131 9.9 5.0 14.9
85 64.5 32.0 96.2

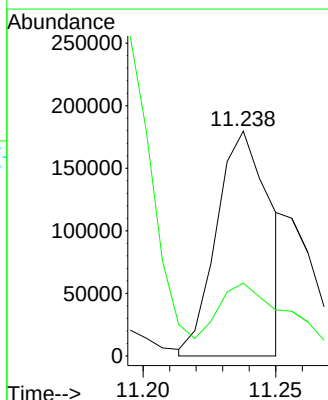
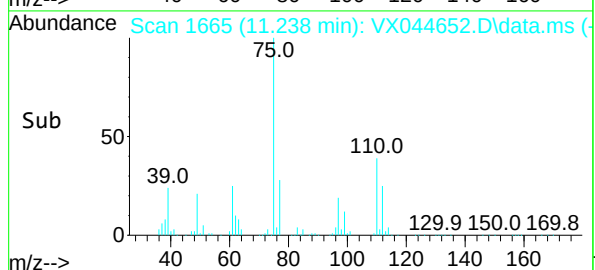
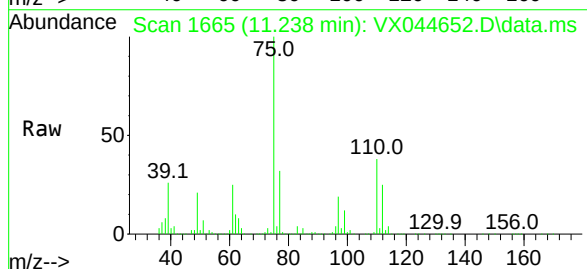
Manual Integrations
APPROVED

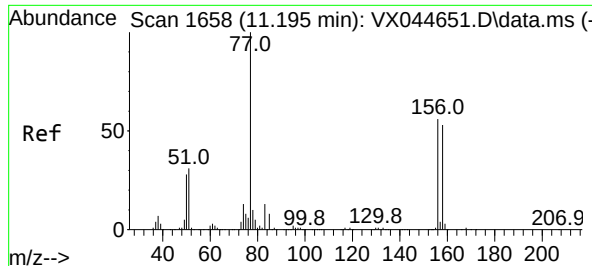
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#76
1,2,3-Trichloropropane
Concen: 96.568 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

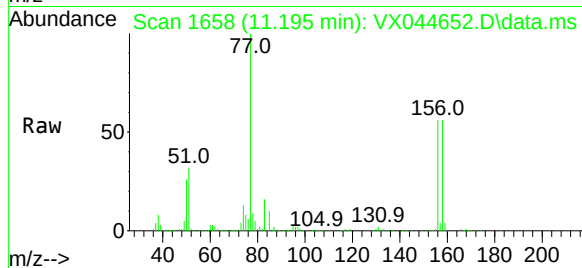
Tgt Ion: 75 Resp: 250918
Ion Ratio Lower Upper
75 100
77 43.9 23.4 70.2





#77
Bromobenzene
Concen: 91.729 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

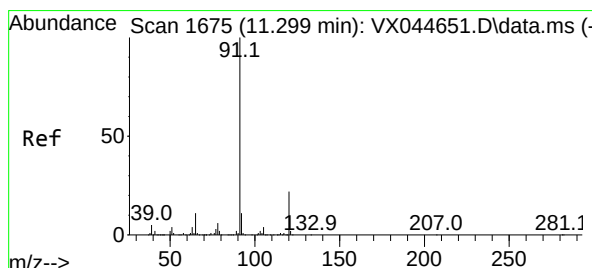
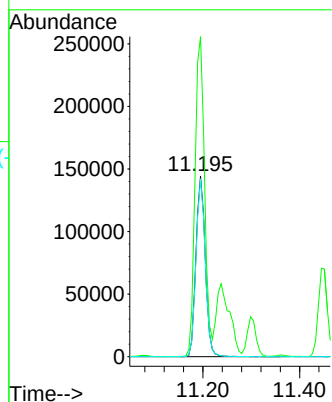
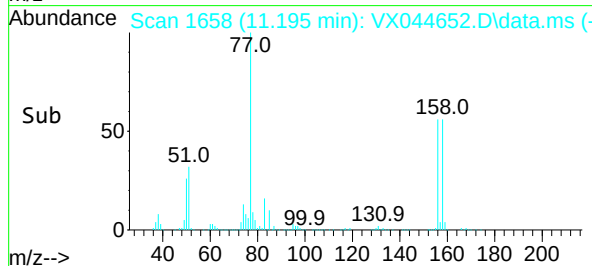
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100



Tgt Ion:156 Resp: 192700
Ion Ratio Lower Upper
156 100
77 181.5 90.3 271.0
158 97.9 48.4 145.3

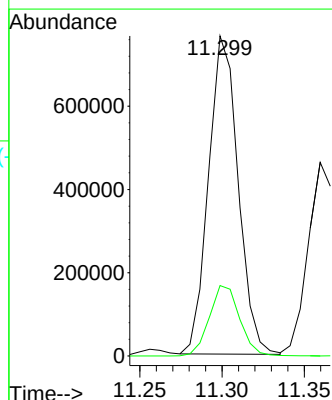
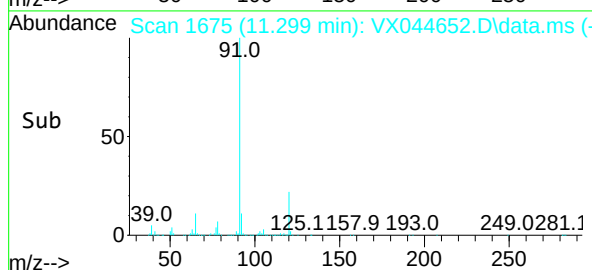
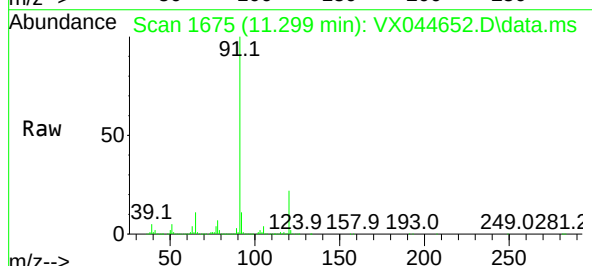
Manual Integrations
APPROVED

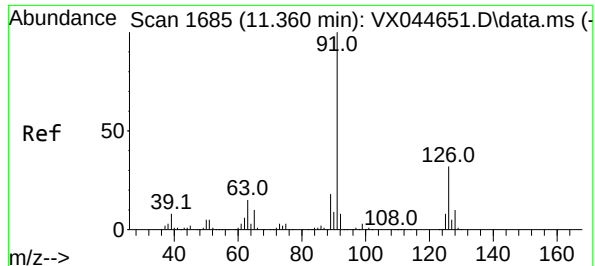
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#78
n-propylbenzene
Concen: 96.470 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 91 Resp: 956202
Ion Ratio Lower Upper
91 100
120 22.7 11.4 34.1





#79

2-Chlorotoluene

Concen: 91.317 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 58468

Ion Ratio Lower Upper

91 100

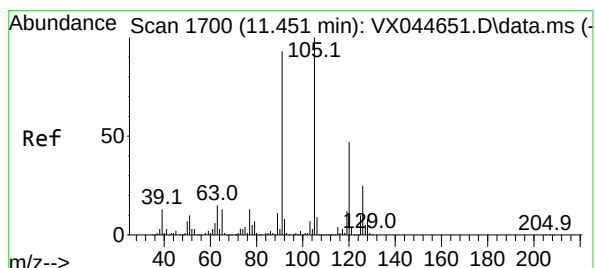
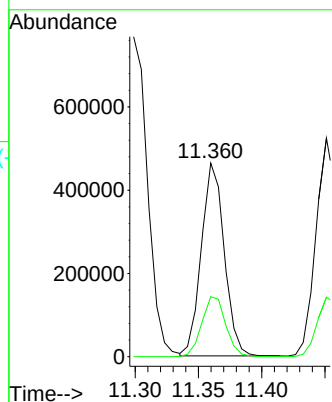
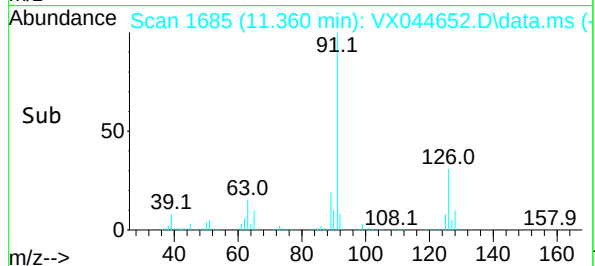
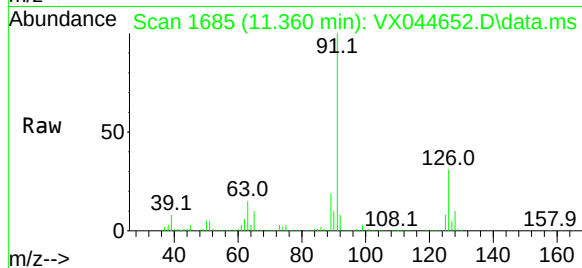
126 32.6 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 91.926 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044652.D

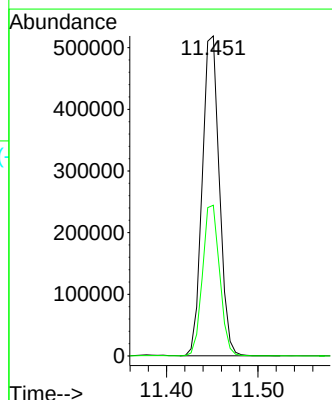
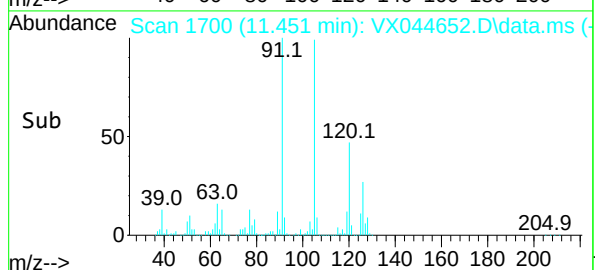
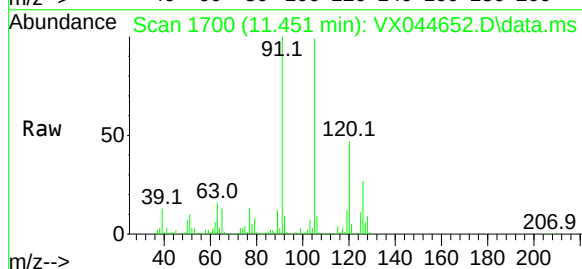
Acq: 15 Jan 2025 13:14

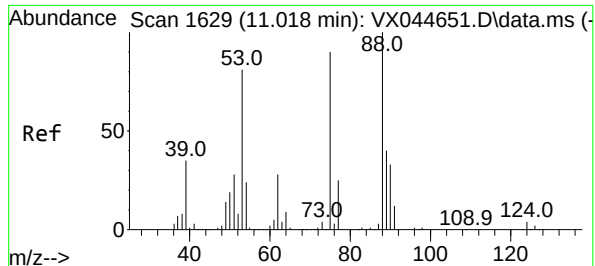
Tgt Ion:105 Resp: 672586

Ion Ratio Lower Upper

105 100

120 47.2 23.7 71.1





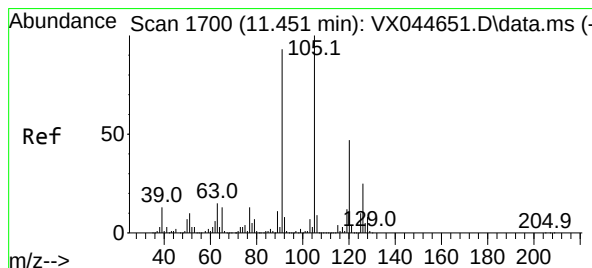
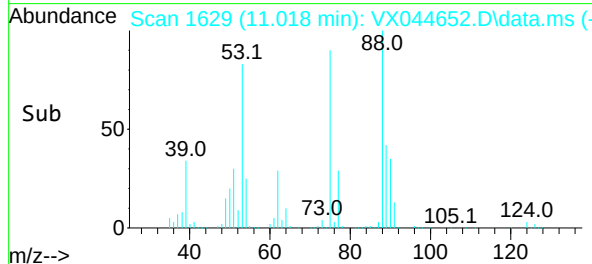
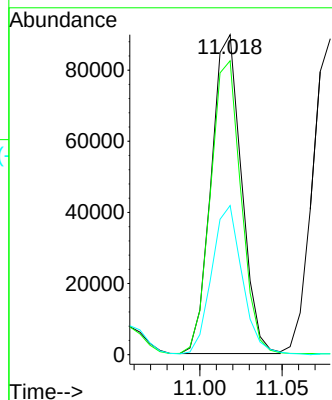
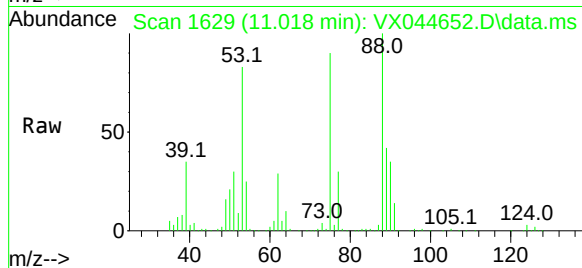
#81
trans-1,4-Dichloro-2-butene
Concen: 98.354 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 114832
Ion Ratio Lower Upper
75 100
53 93.6 74.3 111.5
89 47.4 37.4 56.0

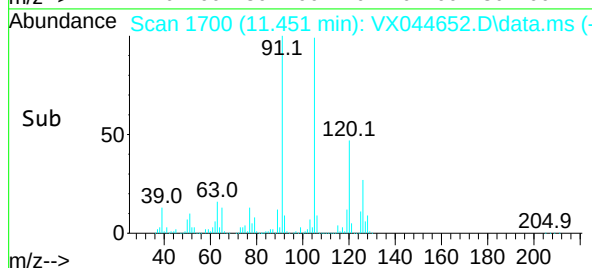
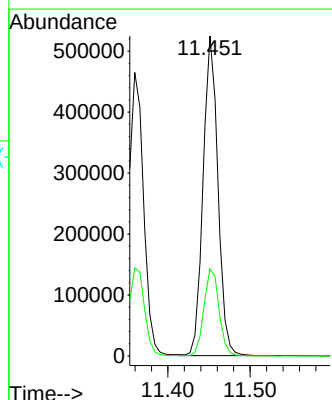
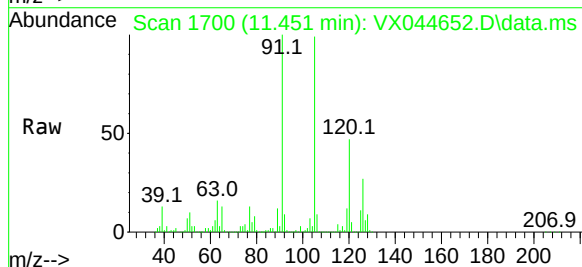
Manual Integrations
APPROVED

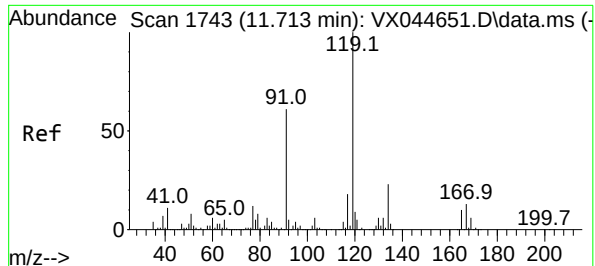
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#82
4-Chlorotoluene
Concen: 93.421 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 91 Resp: 655250
Ion Ratio Lower Upper
91 100
126 27.9 13.9 41.7





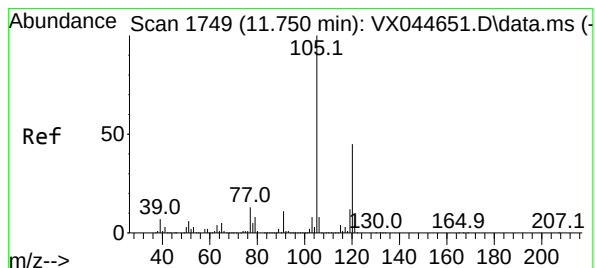
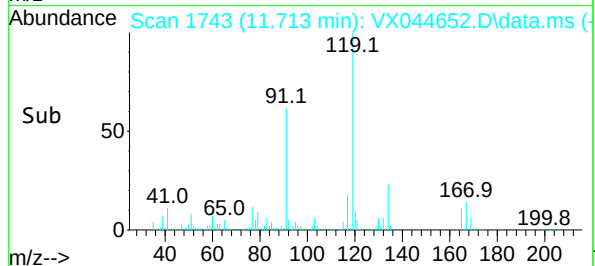
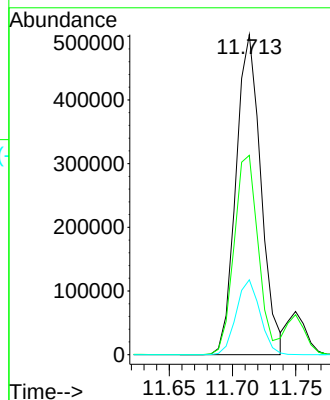
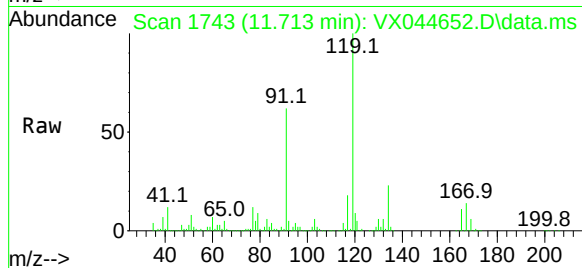
#83
tert-Butylbenzene
Concen: 90.233 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 690320
Ion Ratio Lower Upper
119 100
91 59.9 30.0 90.0
134 22.4 11.2 33.5

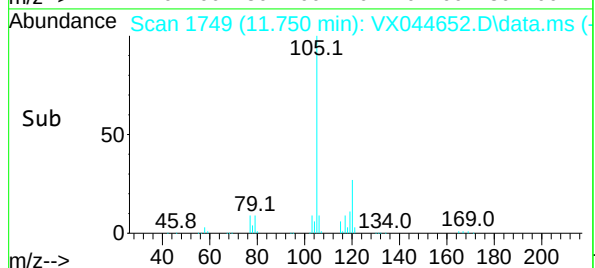
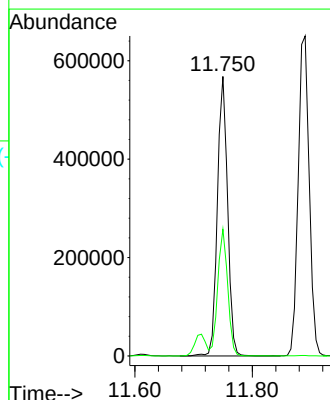
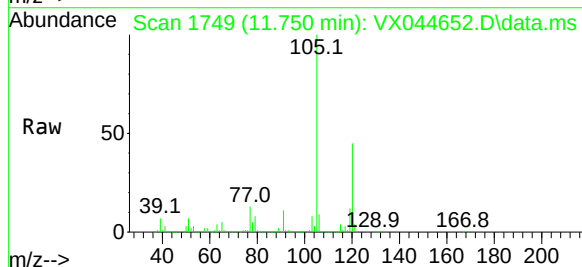
Manual Integrations
APPROVED

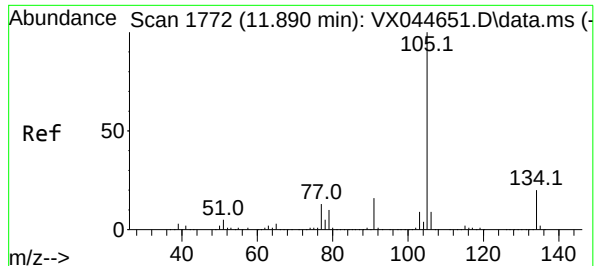
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#84
1,2,4-Trimethylbenzene
Concen: 91.646 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:105 Resp: 681398
Ion Ratio Lower Upper
105 100
120 44.4 22.2 66.6





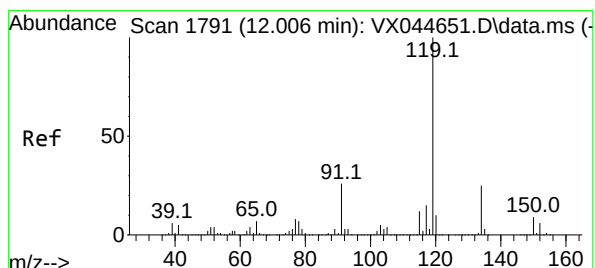
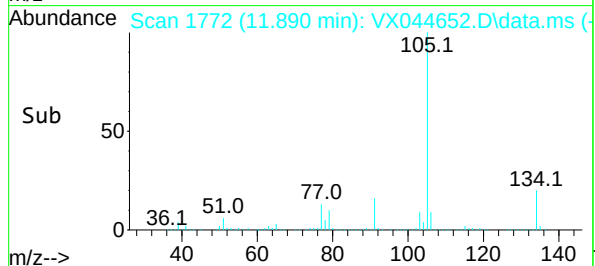
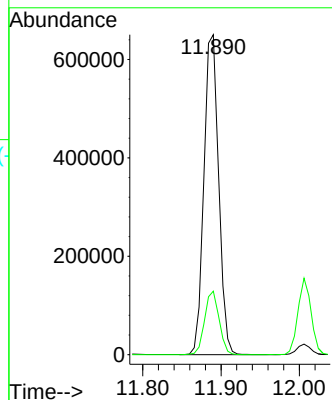
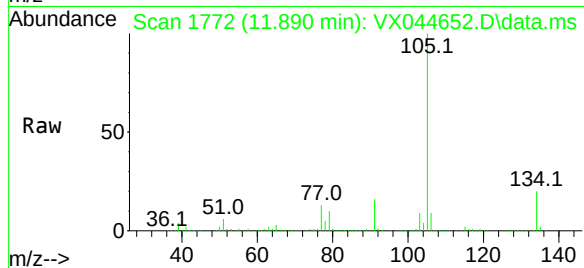
#85
sec-Butylbenzene
Concen: 95.235 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion:105 Resp: 84832
Ion Ratio Lower Upper
105 100
134 19.5 9.8 29.5

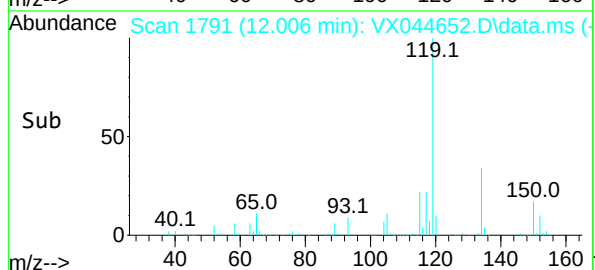
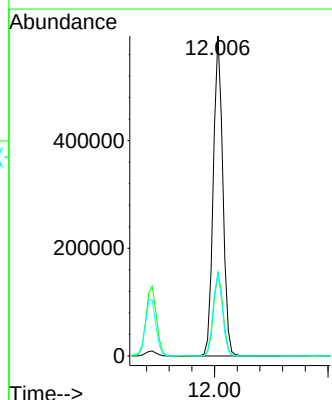
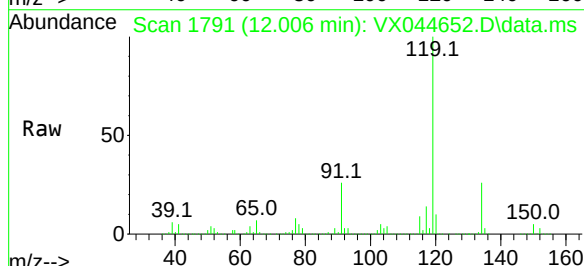
Manual Integrations
APPROVED

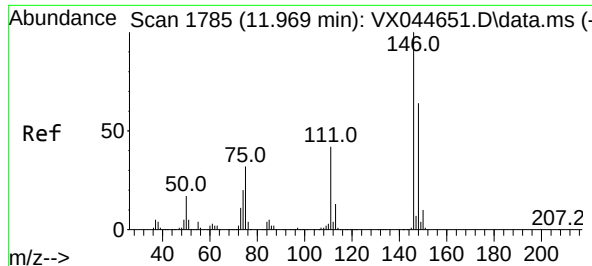
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#86
p-Isopropyltoluene
Concen: 94.999 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:119 Resp: 695433
Ion Ratio Lower Upper
119 100
134 26.1 12.8 38.4
91 25.7 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 97.115 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 353809

Ion Ratio Lower Upper

146 100

111 43.2 21.9 65.7

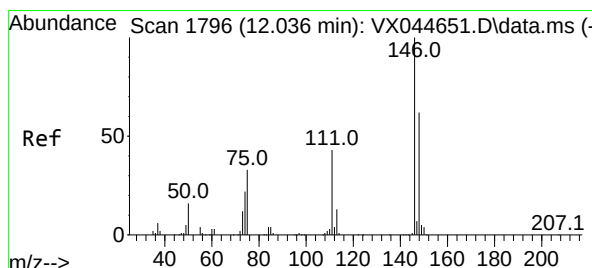
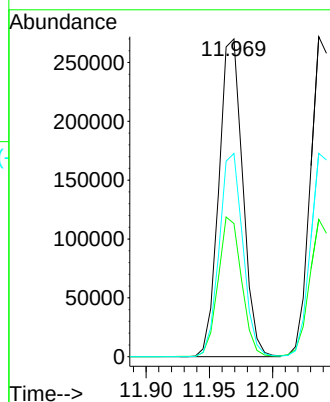
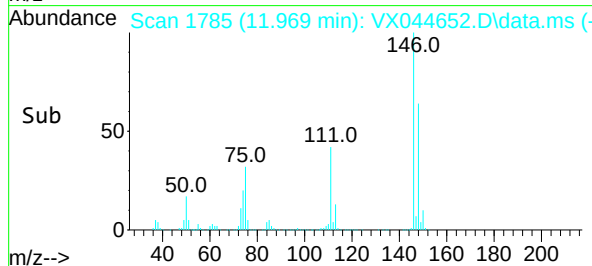
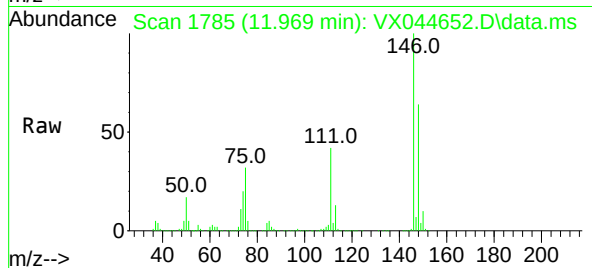
148 63.3 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carbone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#88

1,4-Dichlorobenzene

Concen: 96.070 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

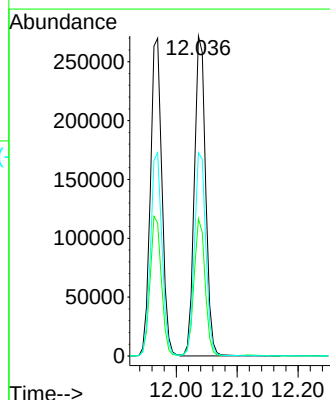
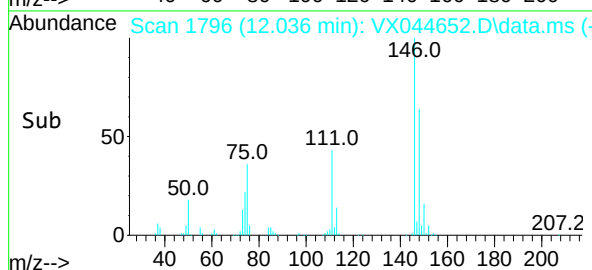
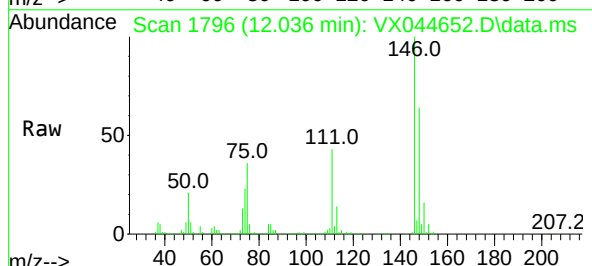
Tgt Ion:146 Resp: 347517

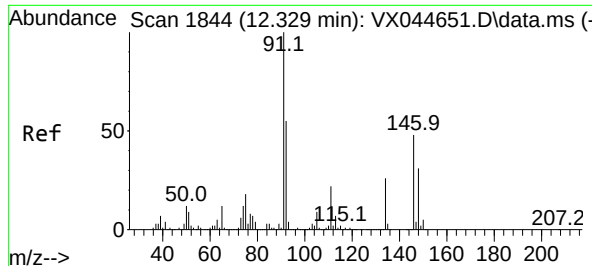
Ion Ratio Lower Upper

146 100

111 42.1 21.5 64.5

148 63.9 32.1 96.5





#89

n-Butylbenzene

Concen: 100.715 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 633240

Ion Ratio Lower Upper

91 100

92 55.3 27.4 82.0

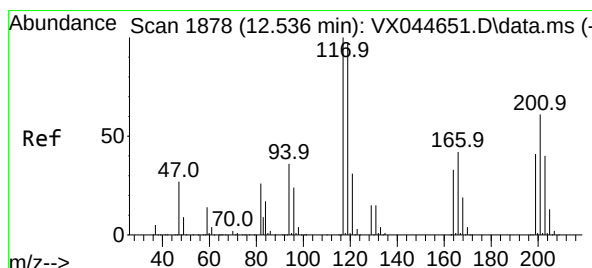
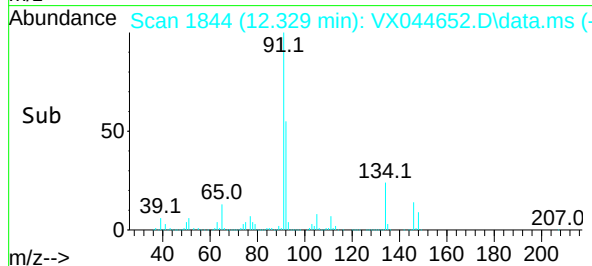
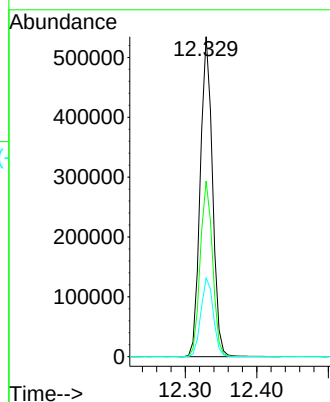
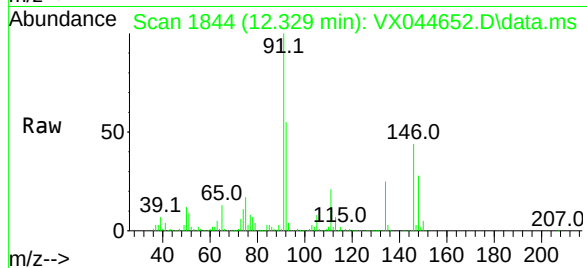
134 25.1 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#90

Hexachloroethane

Concen: 90.037 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044652.D

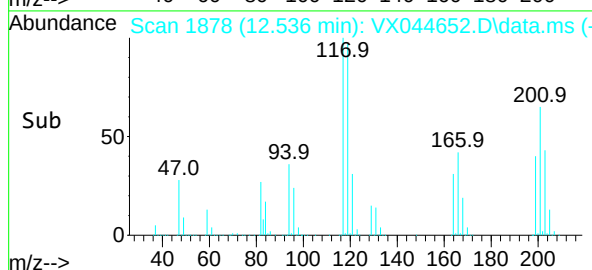
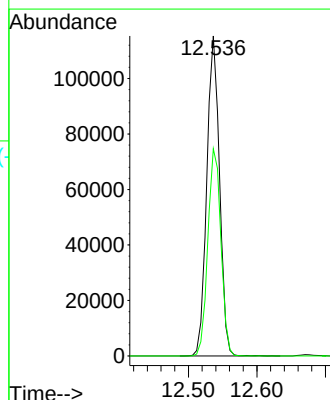
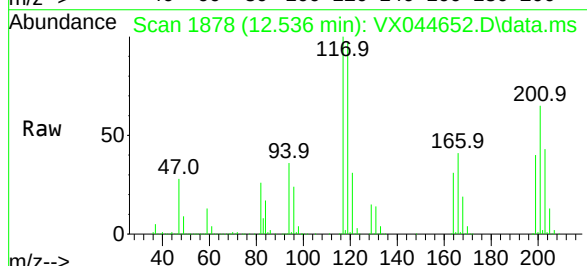
Acq: 15 Jan 2025 13:14

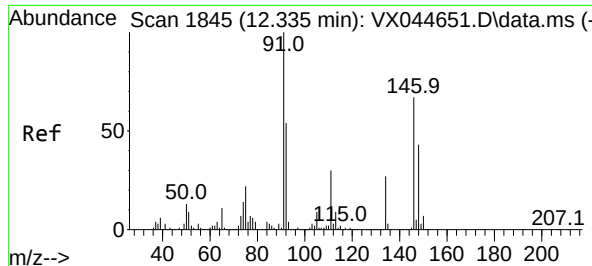
Tgt Ion:117 Resp: 149253

Ion Ratio Lower Upper

117 100

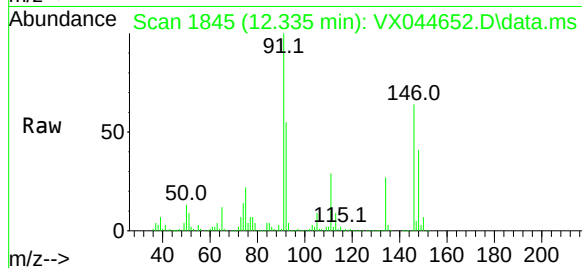
201 66.5 32.3 96.8





#91
1,2-Dichlorobenzene
Concen: 91.056 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

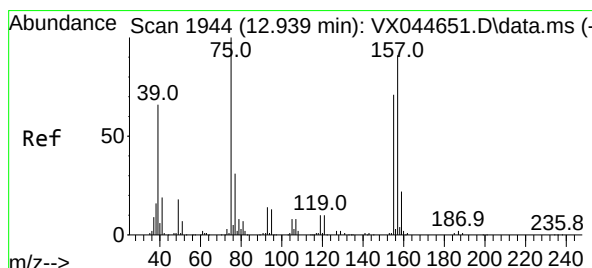
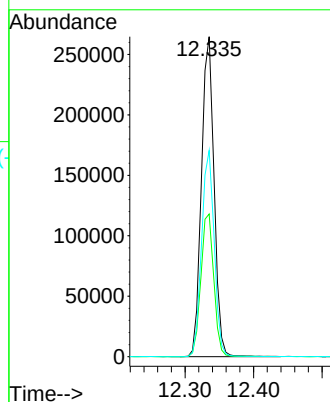
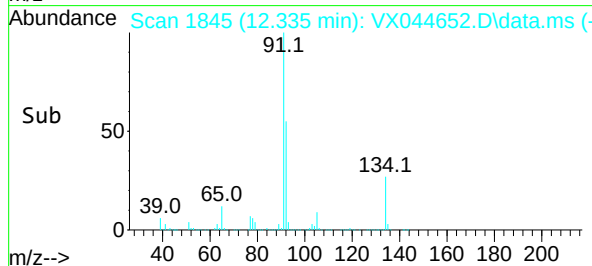
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 34068
Ion Ratio Lower Upper
146 100
111 45.7 22.4 67.2
148 64.4 31.6 94.8

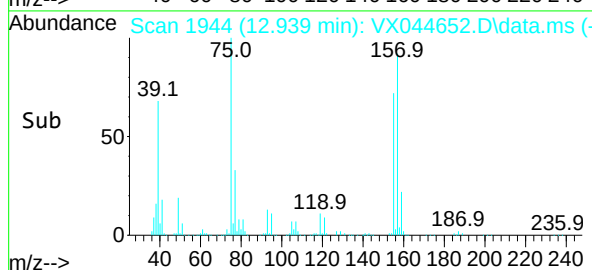
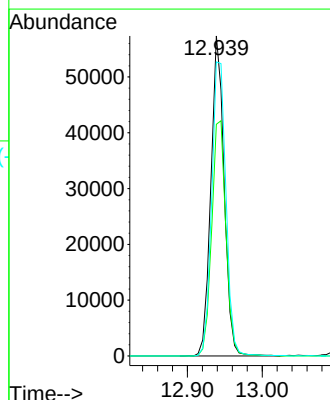
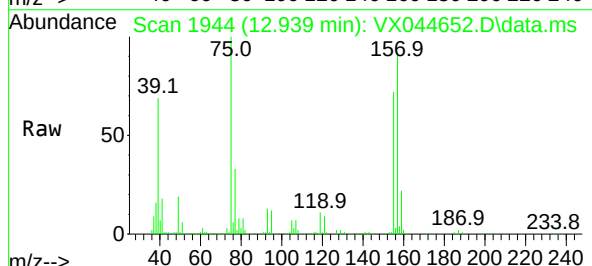
Manual Integrations
APPROVED

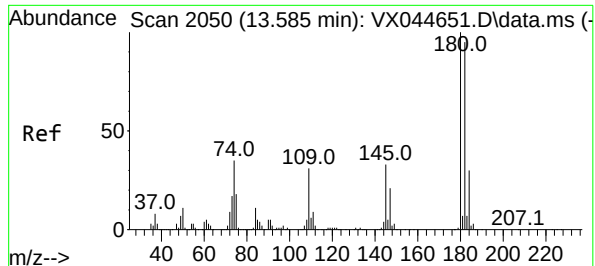
Reviewed By :John Carbone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 93.344 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 75 Resp: 70862
Ion Ratio Lower Upper
75 100
155 78.9 39.0 116.9
157 99.1 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 104.359 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:180 Resp: 23341

Ion Ratio Lower Upper

180 100

182 93.9 47.4 142.2

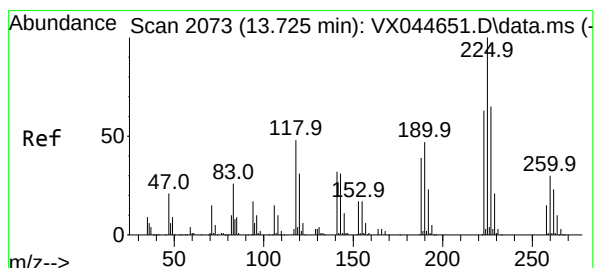
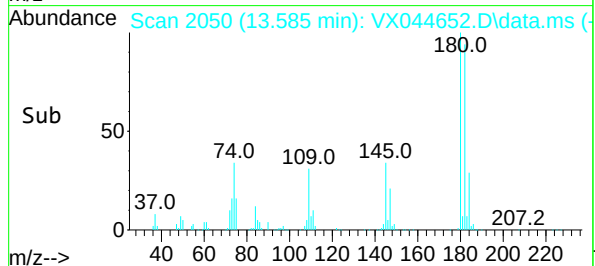
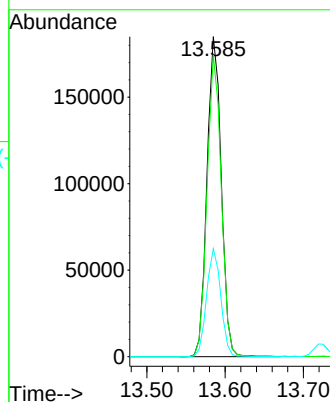
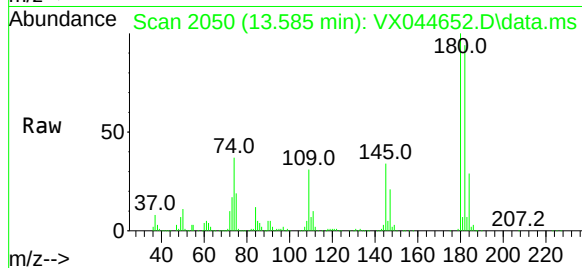
145 33.7 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#94

Hexachlorobutadiene

Concen: 100.406 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX044652.D

Acq: 15 Jan 2025 13:14

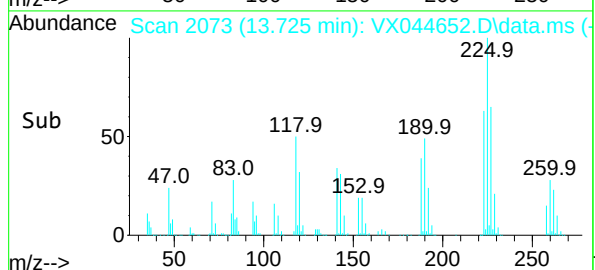
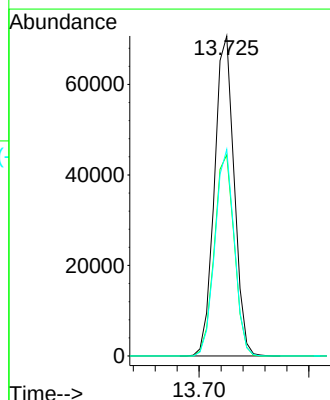
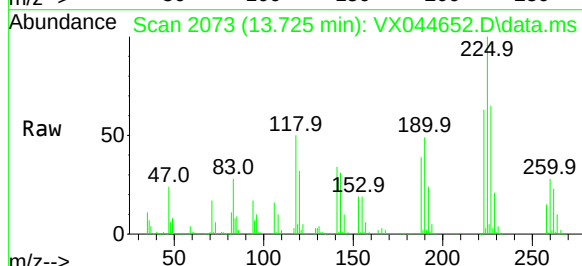
Tgt Ion:225 Resp: 88214

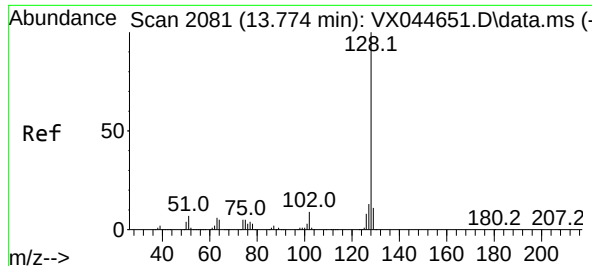
Ion Ratio Lower Upper

225 100

223 63.6 31.9 95.7

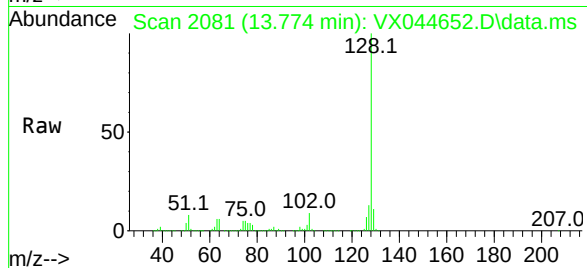
227 63.4 31.8 95.4





#95
Naphthalene
Concen: 98.464 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

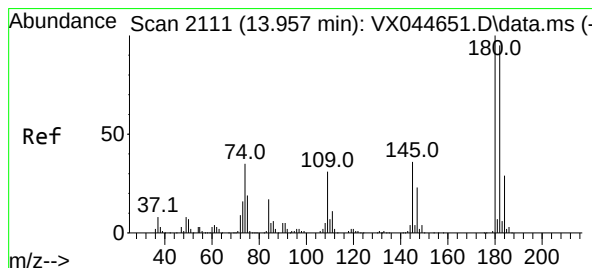
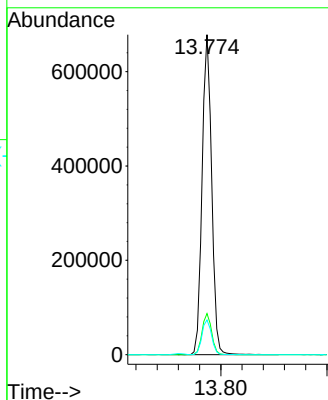
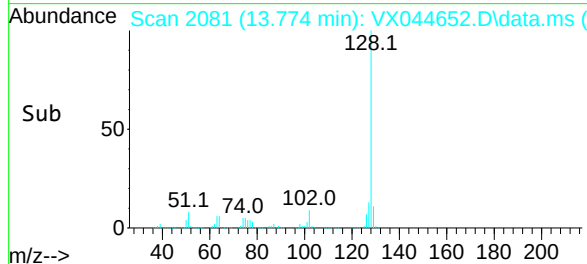
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:128 Resp: 84940
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.9 8.7 13.1

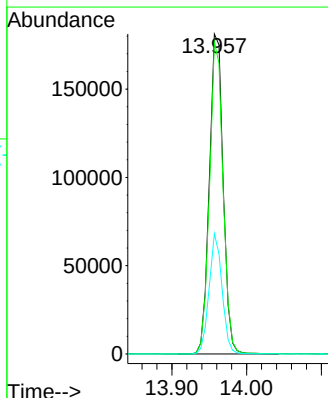
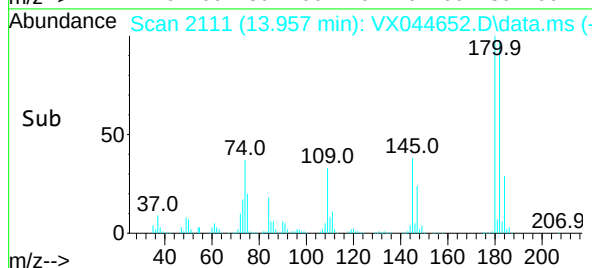
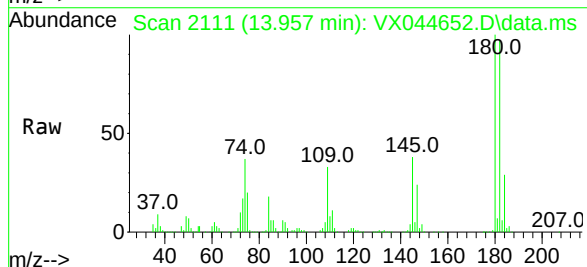
Manual Integrations
APPROVED

Reviewed By :John Carbone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 100.133 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:180 Resp: 232152
Ion Ratio Lower Upper
180 100
182 96.0 47.2 141.6
145 35.5 17.5 52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044653.D
 Acq On : 15 Jan 2025 13:37
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/15/2025
 Supervised By : Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:02:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	160078	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	290219	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	234362	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	100996	50.000	ug/l	# 0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.946	65	377212	156.114	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 312.220%#	
35) Dibromofluoromethane	5.379	113	289994	157.288	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 314.580%#	
50) Toluene-d8	8.647	98	961550	149.572	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 299.140%#	
62) 4-Bromofluorobenzene	11.079	95	366922	153.105	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 306.200%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	366593	170.185	ug/l	98
3) Chloromethane	1.300	50	342210	146.909	ug/l	97
4) Vinyl Chloride	1.374	62	359721	156.293	ug/l	99
5) Bromomethane	1.593	94	87716	159.609	ug/l	97
6) Chloroethane	1.660	64	71666	169.800	ug/l	98
7) Trichlorofluoromethane	1.855	101	398544	156.676	ug/l	97
8) Diethyl Ether	2.136	74	154291	150.299	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.313	101	302048	157.960	ug/l	99
10) Methyl Iodide	2.441	142	394541	151.126	ug/l	99
11) Tert butyl alcohol	3.062	59	387839m	711.783	ug/l	
12) 1,1-Dichloroethene	2.306	96	296987	158.449	ug/l	99
13) Acrolein	2.239	56	193280	762.485	ug/l	99
14) Allyl chloride	2.654	41	534150	146.366	ug/l	100
15) Acrylonitrile	3.068	53	783976	742.040	ug/l	99
16) Acetone	2.392	43	708100	740.713	ug/l	100
17) Carbon Disulfide	2.495	76	803379	157.079	ug/l	99
18) Methyl Acetate	2.703	43	483139	163.814	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	1034710	152.410	ug/l	99
20) Methylene Chloride	2.782	84	325957	146.417	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	290671	148.536	ug/l	98
22) Diisopropyl ether	3.763	45	957045	150.864	ug/l	91
23) Vinyl Acetate	3.721	43	4101581	738.701	ug/l	100
24) 1,1-Dichloroethane	3.599	63	594429	158.014	ug/l	99
25) 2-Butanone	4.562	43	1079716	759.640	ug/l	100
26) 2,2-Dichloropropane	4.465	77	550106	150.882	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	370177	150.386	ug/l	99
28) Bromochloromethane	4.891	49	251238	142.922	ug/l	99
29) Tetrahydrofuran	5.007	42	689928	752.528	ug/l	99
30) Chloroform	5.086	83	579322	152.595	ug/l	99
31) Cyclohexane	5.458	56	476106	156.483	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	522062	149.582	ug/l	99
36) 1,1-Dichloropropene	5.684	75	386304	150.517	ug/l	99
37) Ethyl Acetate	4.715	43	433924	158.764	ug/l	99
38) Carbon Tetrachloride	5.666	117	437442	151.528	ug/l	99
39) Methylcyclohexane	7.373	83	534976	157.021	ug/l	99
40) Benzene	6.031	78	1205057	151.523	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044653.D
 Acq On : 15 Jan 2025 13:37
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :John Carlone 01/15/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:02:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 00:57:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	238601	151.900	ug/l	98
42) 1,2-Dichloroethane	6.080	62	446380	153.782	ug/l	98
43) Isopropyl Acetate	6.336	43	761866	151.528	ug/l	100
44) Trichloroethene	7.117	130	309226	161.735	ug/l	96
45) 1,2-Dichloropropane	7.421	63	308641	154.175	ug/l	99
46) Dibromomethane	7.574	93	231674	152.021	ug/l	99
47) Bromodichloromethane	7.818	83	471682	150.924	ug/l	99
48) Methyl methacrylate	7.690	41	368626	157.946	ug/l	99
49) 1,4-Dioxane	7.671	88	146350	3005.585	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	1994498	717.818	ug/l	100
52) Toluene	8.714	92	699585	143.719	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	490414	151.880	ug/l	96
54) cis-1,3-Dichloropropene	8.360	75	524796	149.891	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	279505	141.923	ug/l	99
56) Ethyl methacrylate	9.116	69	499842	147.609	ug/l	100
57) 1,3-Dichloropropane	9.305	76	485347	144.720	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	1178391	708.825	ug/l	99
59) 2-Hexanone	9.433	43	1482861	725.401	ug/l	99
60) Dibromochloromethane	9.519	129	335937	145.333	ug/l	99
61) 1,2-Dibromoethane	9.604	107	296982	143.893	ug/l	100
64) Tetrachloroethene	9.269	164	229004	155.612	ug/l	98
65) Chlorobenzene	10.079	112	750161	150.697	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	276991	153.108	ug/l	99
67) Ethyl Benzene	10.189	91	1315242	151.424	ug/l	99
68) m/p-Xylenes	10.299	106	941355	292.054	ug/l	100
69) o-Xylene	10.640	106	473907	145.386	ug/l	98
70) Styrene	10.652	104	792889	150.660	ug/l	100
71) Bromoform	10.799	173	232464	157.877	ug/l	99
73) Isopropylbenzene	10.957	105	1207427	146.343	ug/l	100
74) N-amyl acetate	10.841	43	622491	153.069	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	415068	145.660	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	356222m	149.343	ug/l	
77) Bromobenzene	11.195	156	288579	149.641	ug/l	100
78) n-propylbenzene	11.305	91	1375979	151.223	ug/l	100
79) 2-Chlorotoluene	11.366	91	857617	145.911	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	959600	142.870	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	171786	160.280	ug/l	99
82) 4-Chlorotoluene	11.451	91	957835	148.761	ug/l	100
83) tert-Butylbenzene	11.713	119	999760	142.356	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	991595	145.281	ug/l	100
85) sec-Butylbenzene	11.890	105	1214662	148.543	ug/l	100
86) p-Isopropyltoluene	12.006	119	1000632	148.902	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	521112	155.816	ug/l	100
88) 1,4-Dichlorobenzene	12.042	146	516467	155.532	ug/l	99
89) n-Butylbenzene	12.329	91	904589	156.724	ug/l	99
90) Hexachloroethane	12.536	117	222866	146.455	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	511280	148.860	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	107815	154.709	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	352298	171.582	ug/l	99
94) Hexachlorobutadiene	13.725	225	129218	160.216	ug/l	99
95) Naphthalene	13.774	128	1285749	162.361	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	350134	164.515	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044653.D
Acq On : 15 Jan 2025 13:37
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:02:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

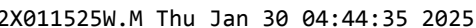
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

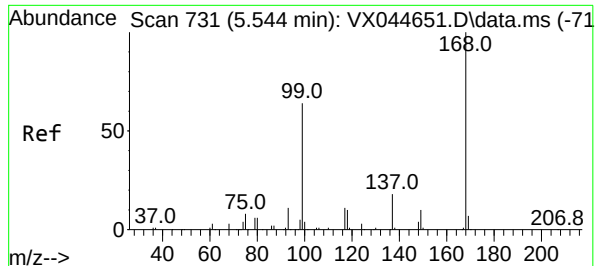
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:168 Resp: 160078

Ion Ratio Lower Upper

168 100

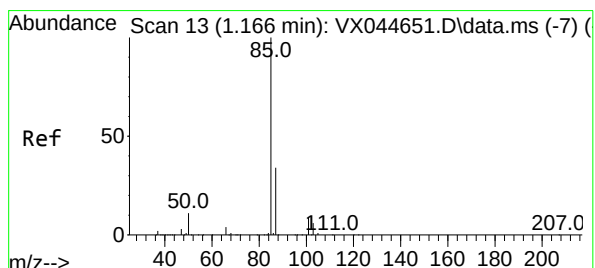
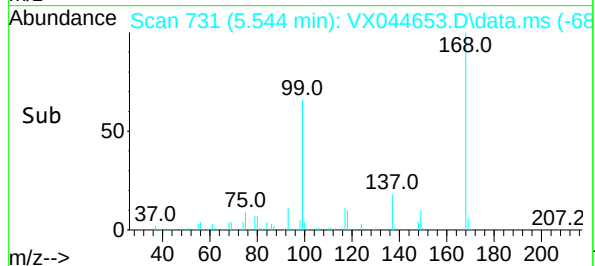
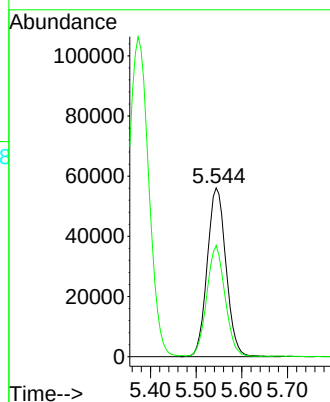
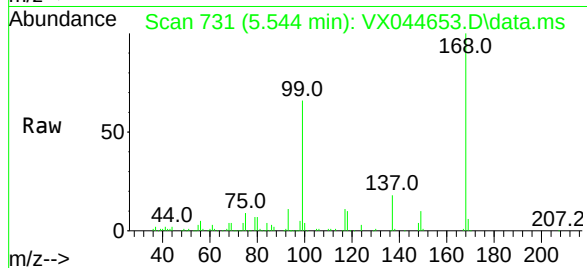
99 65.5 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#2

Dichlorodifluoromethane

Concen: 170.185 ug/l

RT: 1.166 min Scan# 13

Delta R.T. 0.000 min

Lab File: VX044653.D

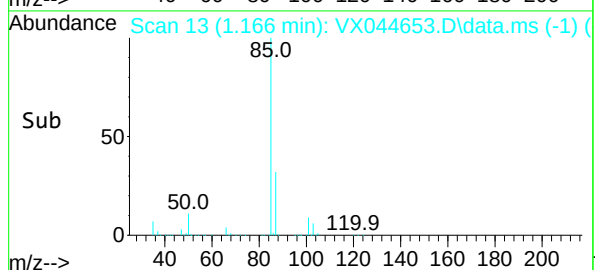
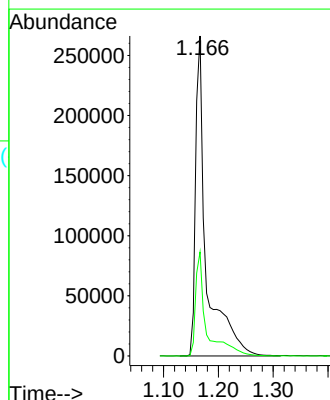
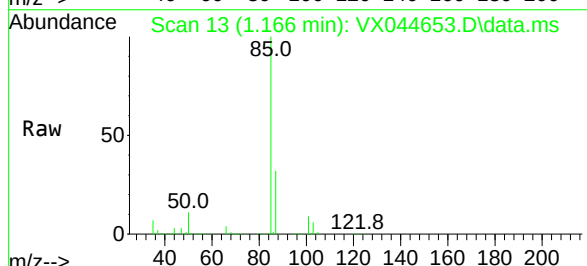
Acq: 15 Jan 2025 13:37

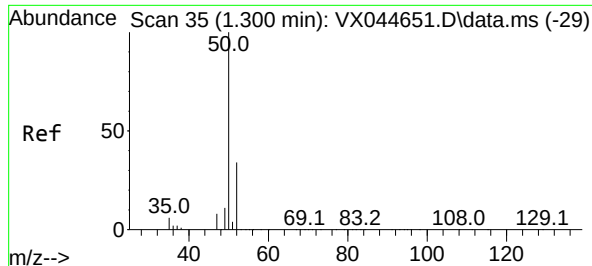
Tgt Ion: 85 Resp: 366593

Ion Ratio Lower Upper

85 100

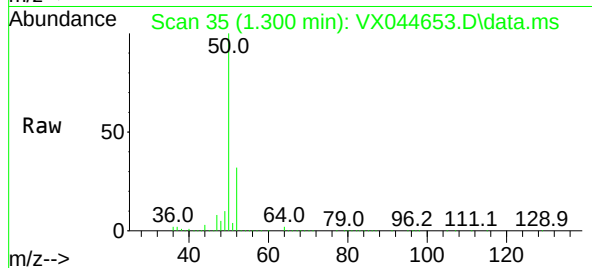
87 32.5 16.8 50.4





#3
Chloromethane
Concen: 146.909 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

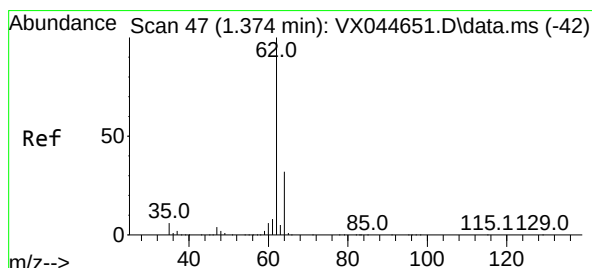
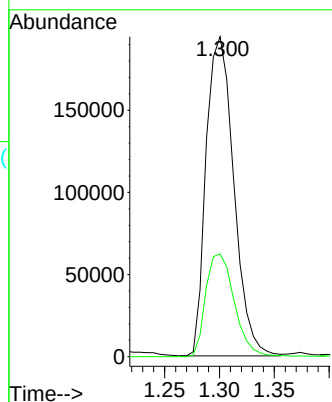
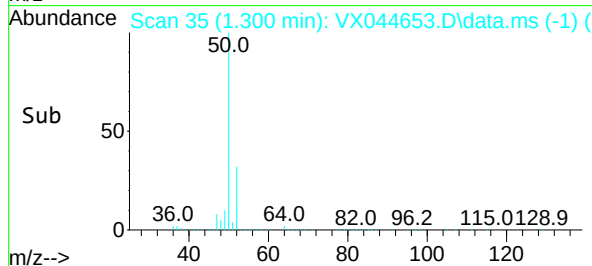
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 50 Resp: 342210
Ion Ratio Lower Upper
50 100
52 32.2 27.0 40.4

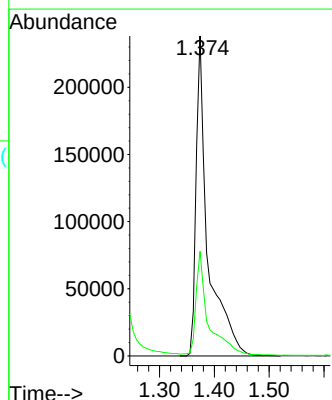
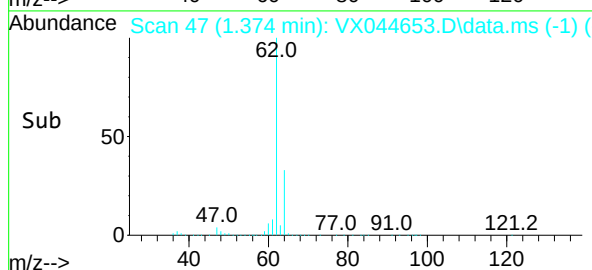
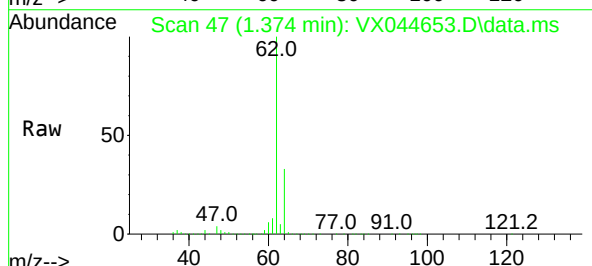
Manual Integrations
APPROVED

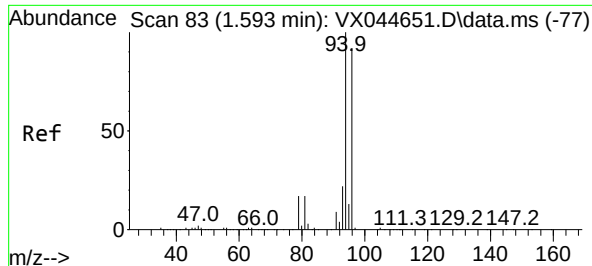
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#4
Vinyl Chloride
Concen: 156.293 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 62 Resp: 359721
Ion Ratio Lower Upper
62 100
64 32.5 26.6 39.8





#5

Bromomethane

Concen: 159.609 ug/l

RT: 1.593 min Scan# 81

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 94 Resp: 87710

Ion Ratio Lower Upper

94 100

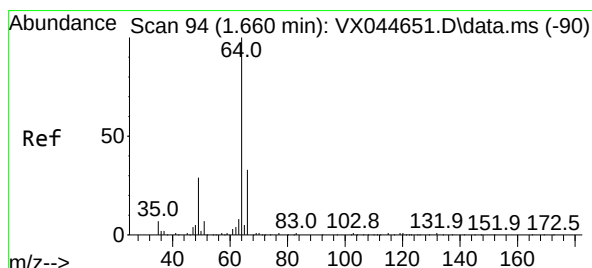
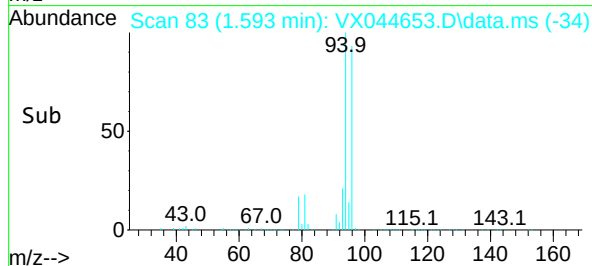
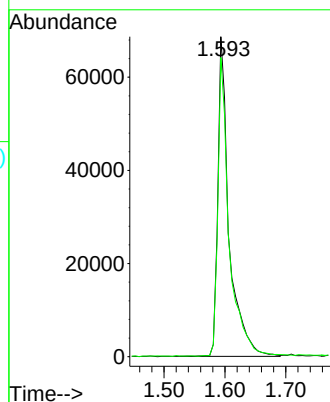
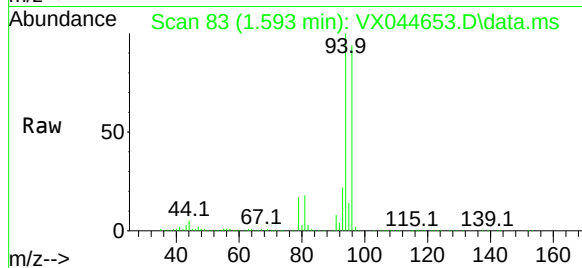
96 93.4 72.8 109.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#6

Chloroethane

Concen: 169.800 ug/l

RT: 1.660 min Scan# 94

Delta R.T. 0.000 min

Lab File: VX044653.D

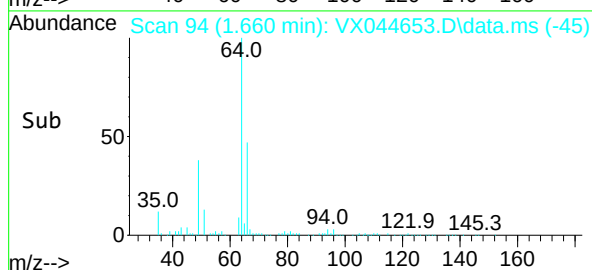
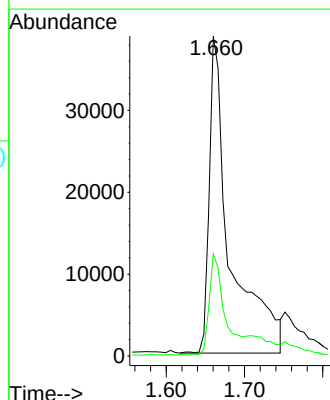
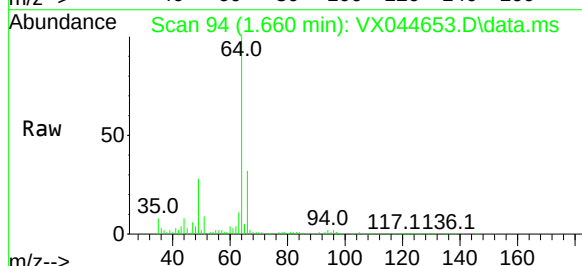
Acq: 15 Jan 2025 13:37

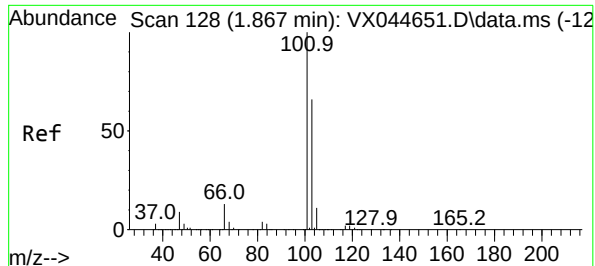
Tgt Ion: 64 Resp: 71666

Ion Ratio Lower Upper

64 100

66 31.8 26.6 39.8





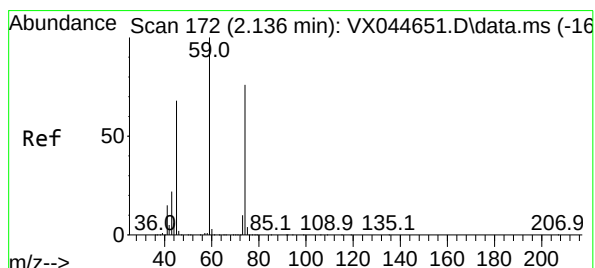
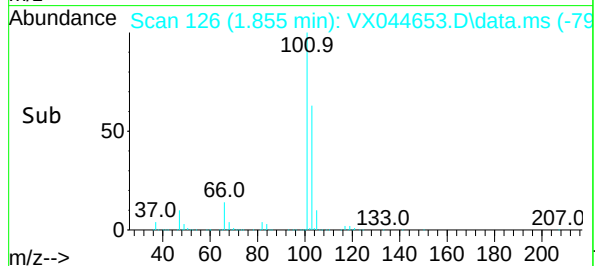
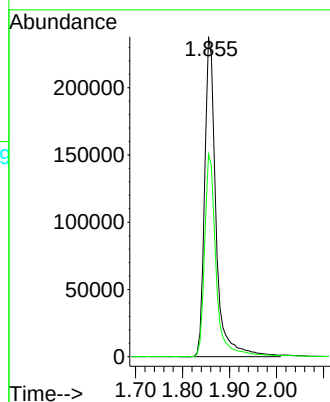
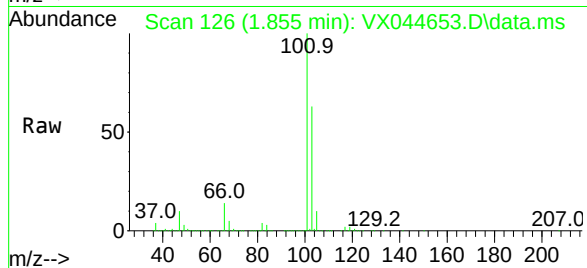
#7
Trichlorofluoromethane
Concen: 156.676 ug/l
RT: 1.855 min Scan# 11
Delta R.T. -0.012 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 398544
Ion Ratio Lower Upper
101 100
103 63.3 52.5 78.7

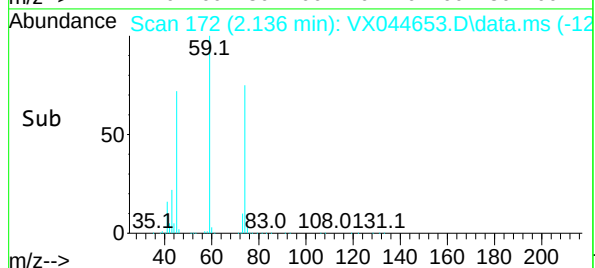
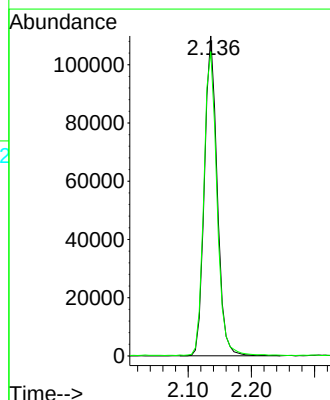
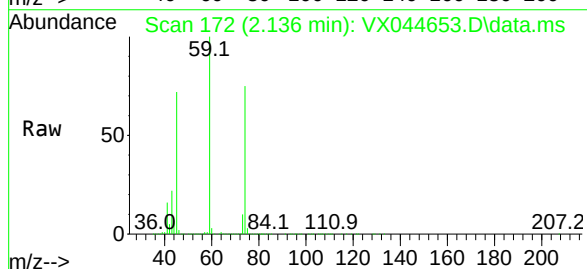
Manual Integrations
APPROVED

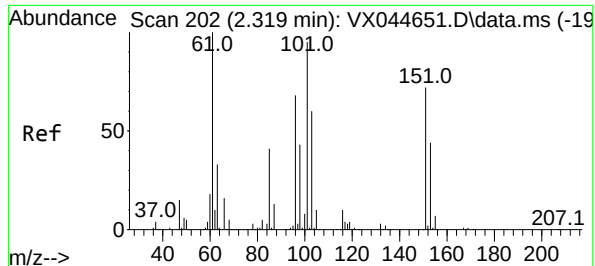
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#8
Diethyl Ether
Concen: 150.299 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

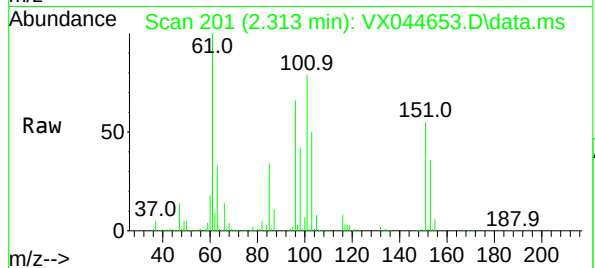
Tgt Ion: 74 Resp: 154291
Ion Ratio Lower Upper
74 100
45 98.3 47.1 141.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 157.960 ug/l
RT: 2.313 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

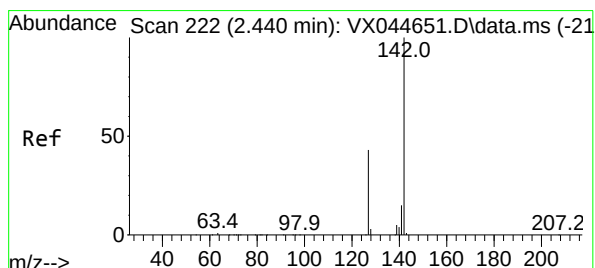
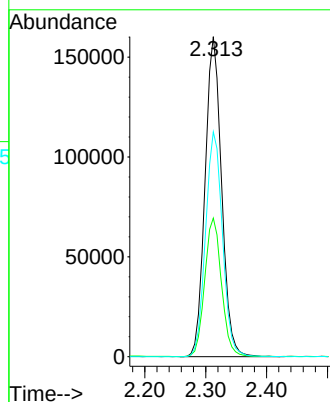
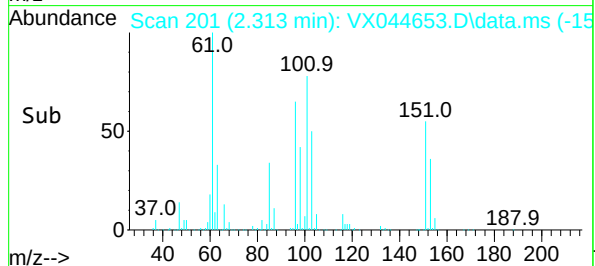
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:101 Resp: 302048
Ion Ratio Lower Upper
101 100
85 43.8 35.3 52.9
151 72.0 58.2 87.4

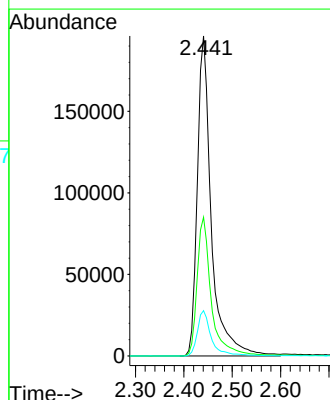
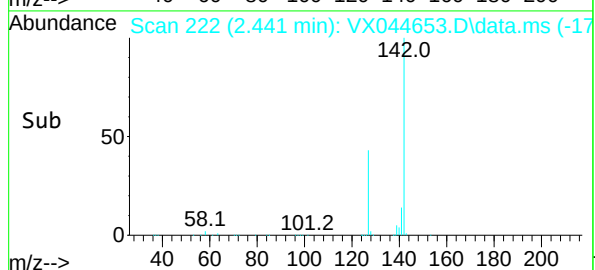
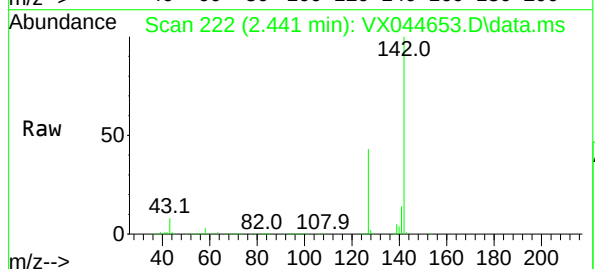
Manual Integrations
APPROVED

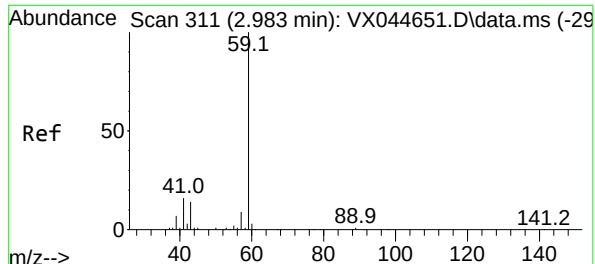
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#10
Methyl Iodide
Concen: 151.126 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:142 Resp: 394541
Ion Ratio Lower Upper
142 100
127 44.4 35.0 52.4
141 14.2 11.7 17.5





#11

Tert butyl alcohol

Concen: 711.783 ug/l m

RT: 3.062 min Scan# 311

Delta R.T. 0.079 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 59 Resp: 387839

Ion Ratio Lower Upper

59 100

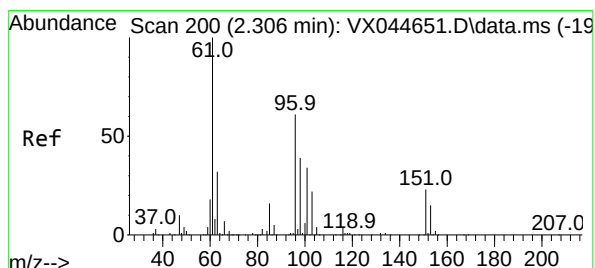
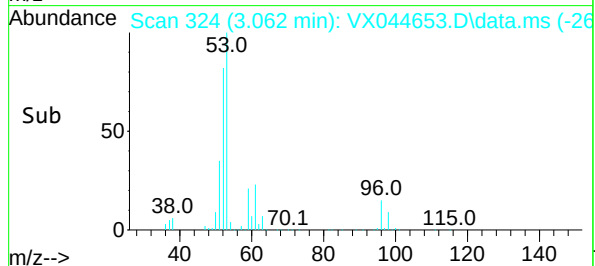
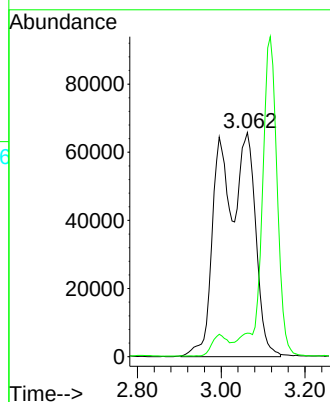
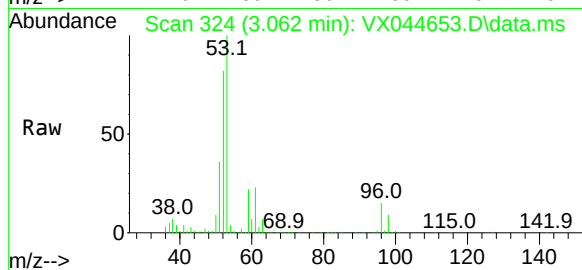
57 4.5 3.9 5.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#12

1,1-Dichloroethene

Concen: 158.449 ug/l

RT: 2.306 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

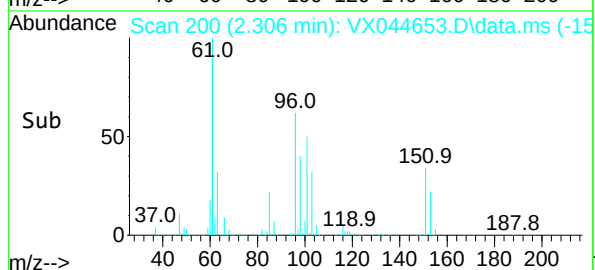
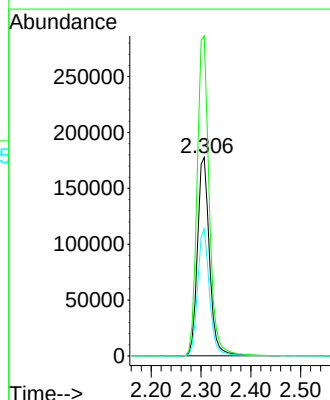
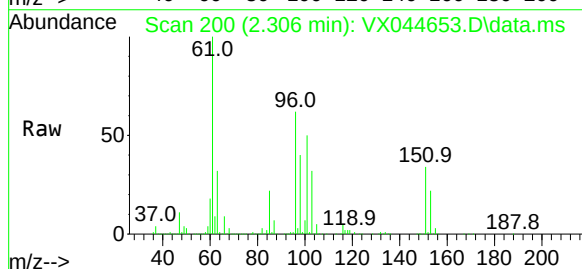
Tgt Ion: 96 Resp: 296987

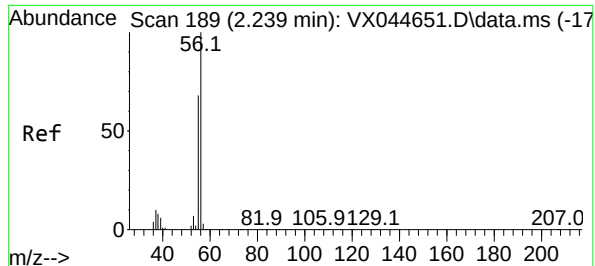
Ion Ratio Lower Upper

96 100

61 161.3 131.1 196.7

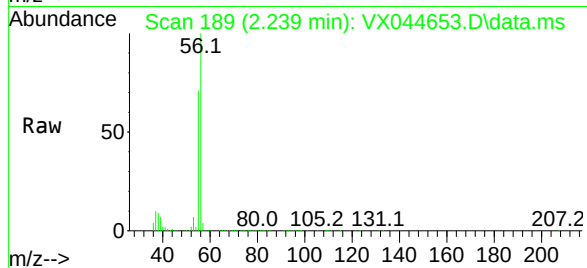
98 64.0 51.2 76.8





#13
Acrolein
Concen: 762.485 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

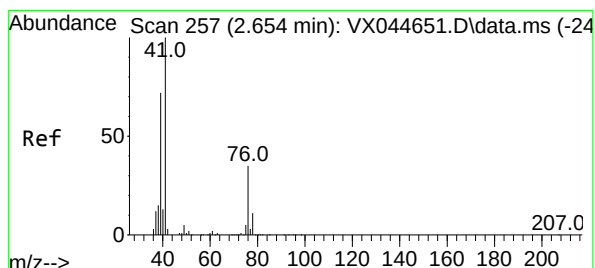
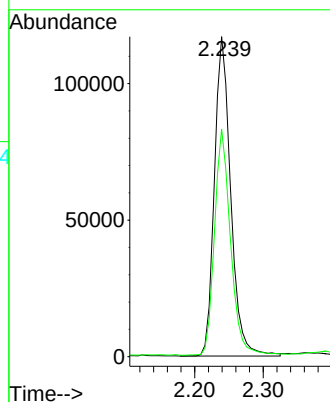
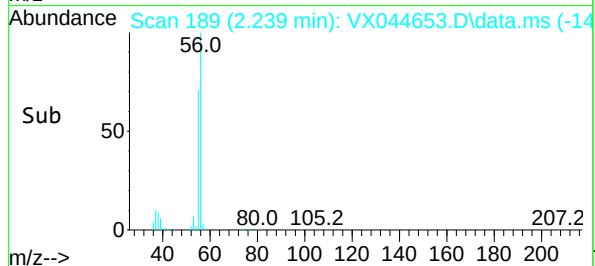
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 56 Resp: 193280
Ion Ratio Lower Upper
56 100
55 69.9 55.1 82.7

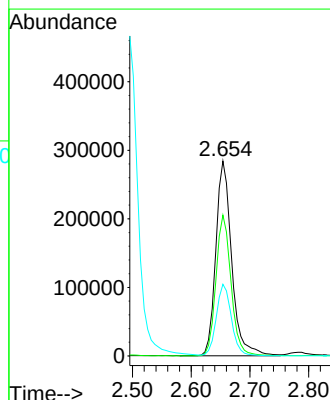
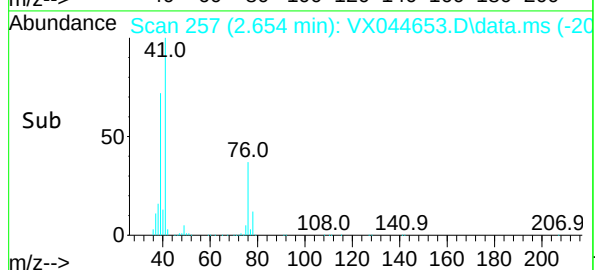
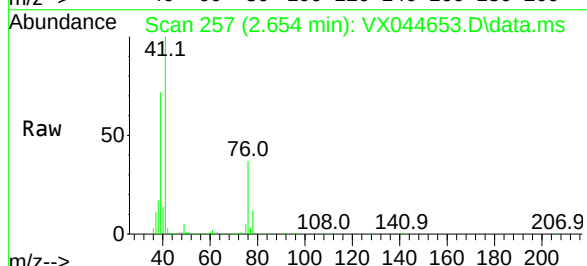
Manual Integrations
APPROVED

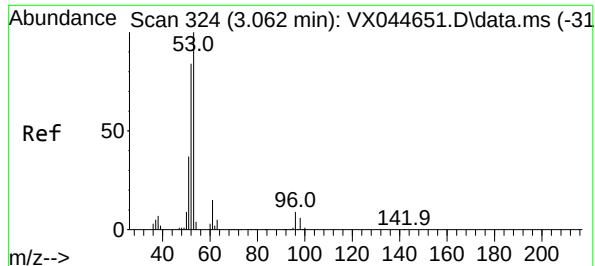
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#14
Allyl chloride
Concen: 146.366 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 41 Resp: 534150
Ion Ratio Lower Upper
41 100
39 68.7 54.9 82.3
76 34.9 28.4 42.6





#15

Acrylonitrile

Concen: 742.040 ug/l

RT: 3.068 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 53 Resp: 783970

Ion Ratio Lower Upper

53 100

52 83.1 66.0 99.0

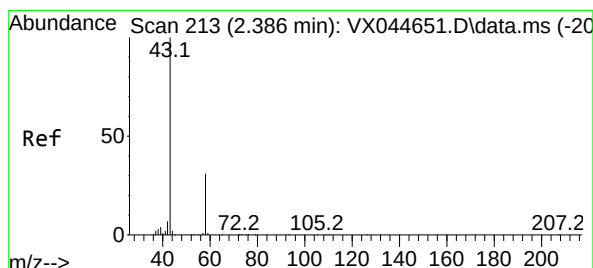
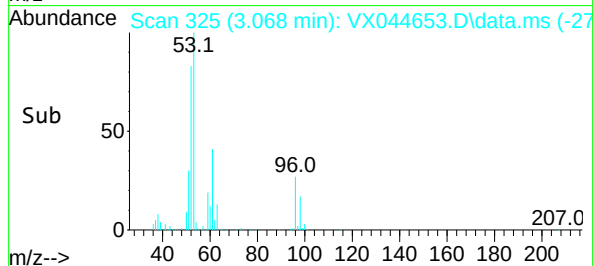
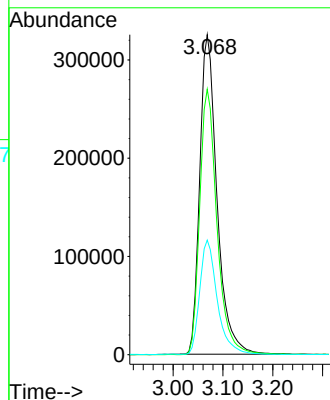
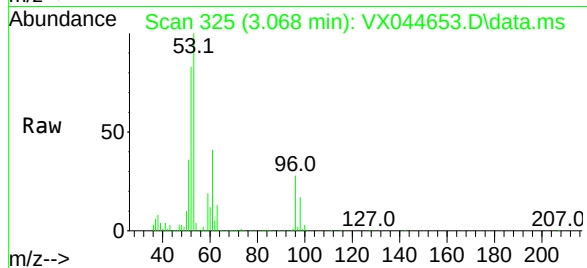
51 36.2 28.9 43.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#16

Acetone

Concen: 740.713 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX044653.D

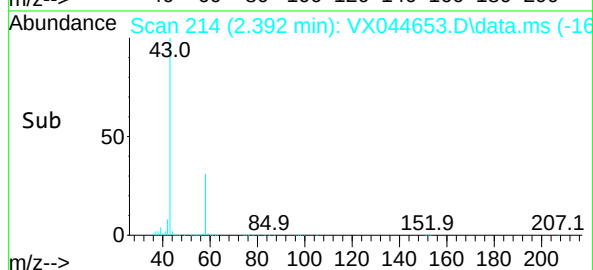
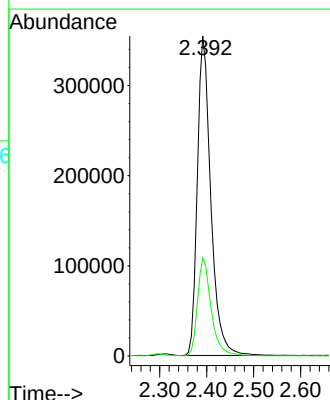
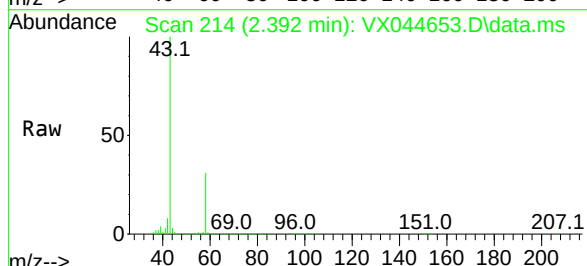
Acq: 15 Jan 2025 13:37

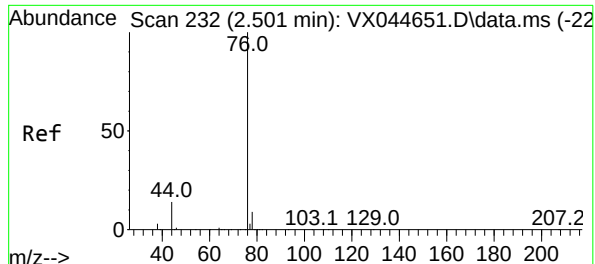
Tgt Ion: 43 Resp: 708100

Ion Ratio Lower Upper

43 100

58 30.7 24.6 37.0





#17

Carbon Disulfide

Concen: 157.079 ug/l

RT: 2.495 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 76 Resp: 803379

Ion Ratio Lower Upper

76 100

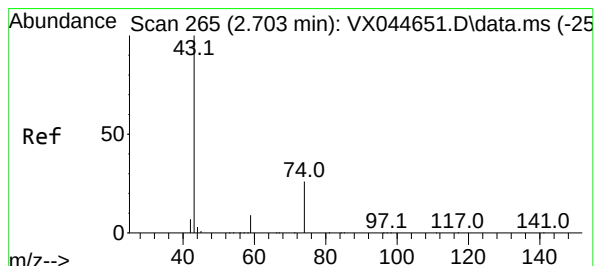
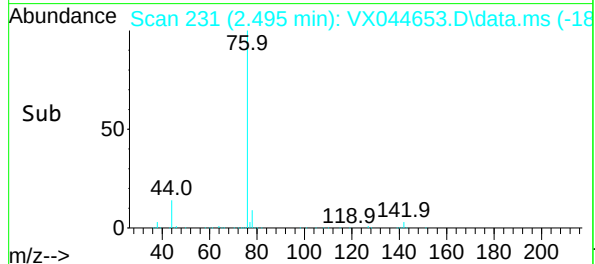
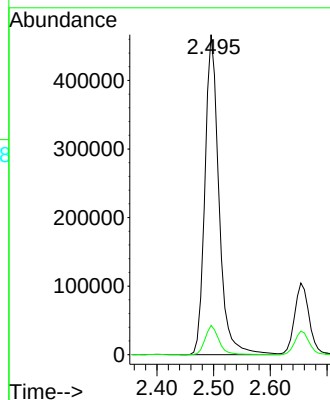
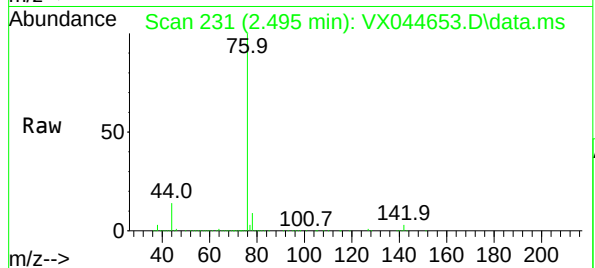
78 9.1 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#18

Methyl Acetate

Concen: 163.814 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044653.D

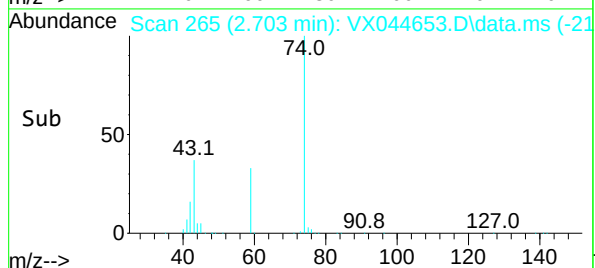
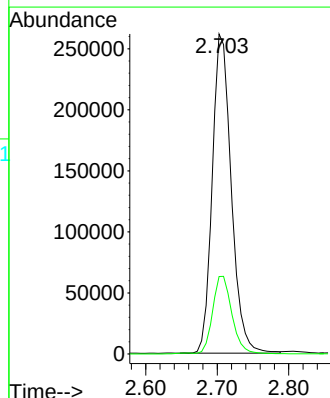
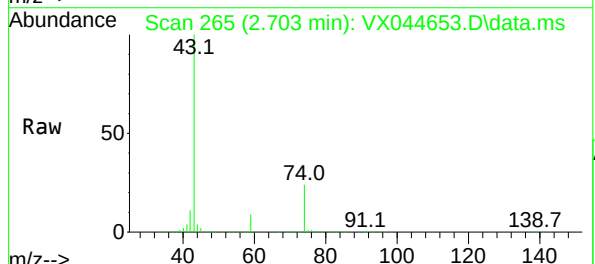
Acq: 15 Jan 2025 13:37

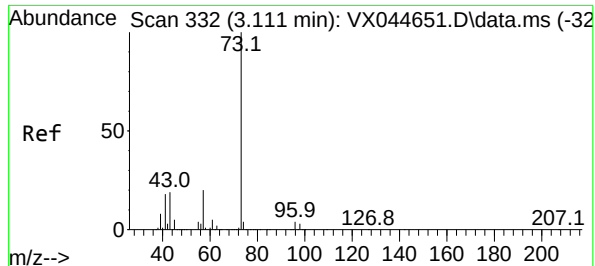
Tgt Ion: 43 Resp: 483139

Ion Ratio Lower Upper

43 100

74 24.7 19.8 29.8





#19

Methyl tert-butyl Ether

Concen: 152.410 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 73 Resp: 1034710

Ion Ratio Lower Upper

73 100

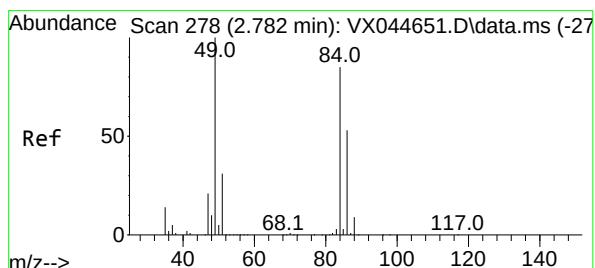
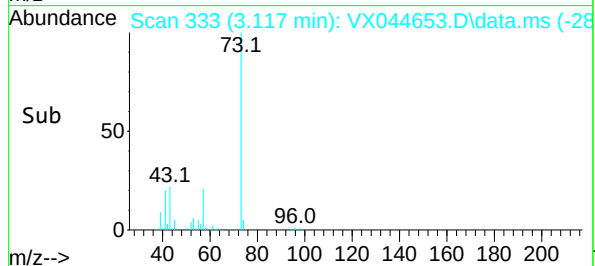
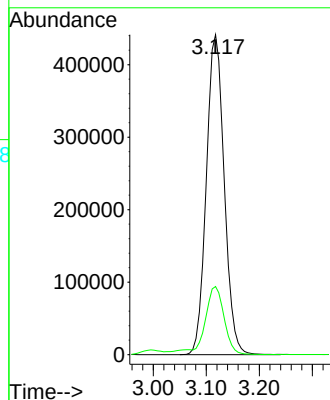
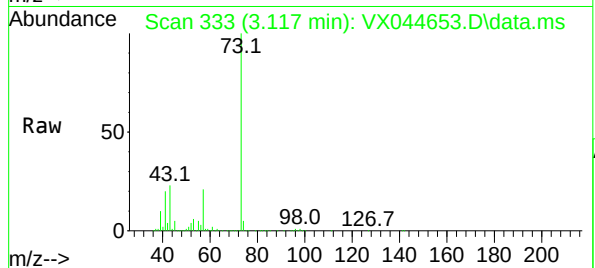
57 21.2 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#20

Methylene Chloride

Concen: 146.417 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Tgt Ion: 84 Resp: 325957

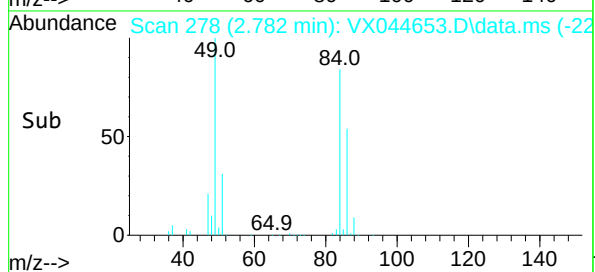
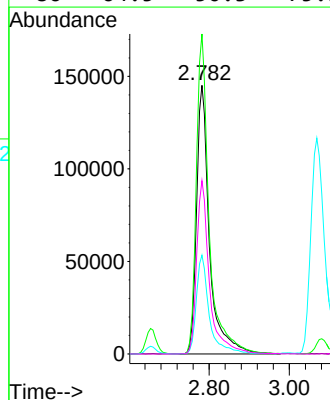
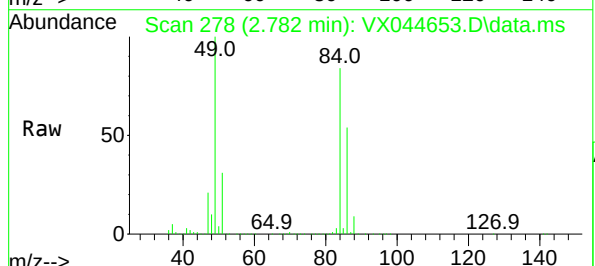
Ion Ratio Lower Upper

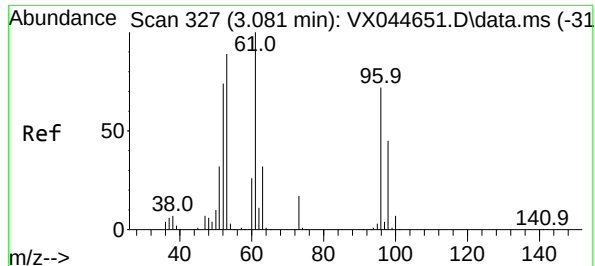
84 100

49 119.1 94.2 141.4

51 36.7 28.8 43.2

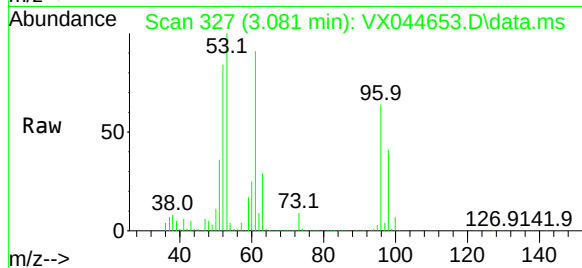
86 64.5 50.3 75.5





#21
trans-1,2-Dichloroethene
Concen: 148.536 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

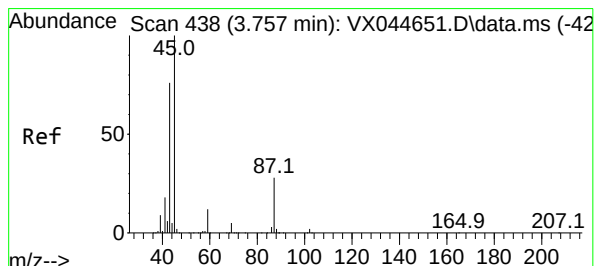
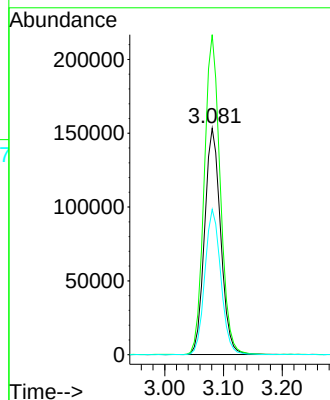
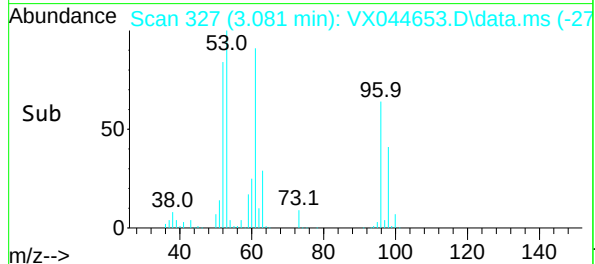
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 96 Resp: 29067
Ion Ratio Lower Upper
96 100
61 141.3 111.0 166.6
98 64.2 50.2 75.2

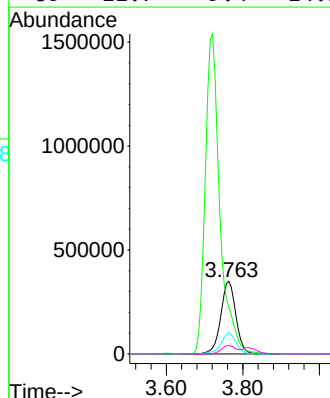
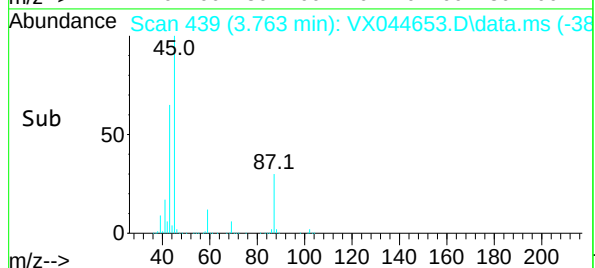
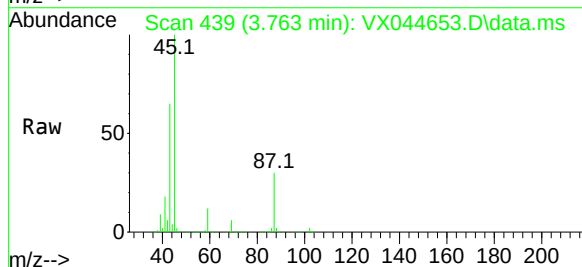
Manual Integrations
APPROVED

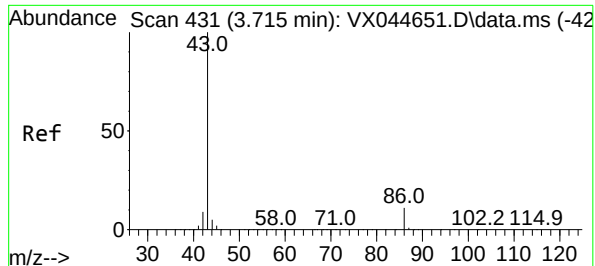
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#22
Diisopropyl ether
Concen: 150.864 ug/l
RT: 3.763 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 45 Resp: 957045
Ion Ratio Lower Upper
45 100
43 64.8 61.0 91.6
87 29.6 22.7 34.1
59 11.7 9.4 14.2





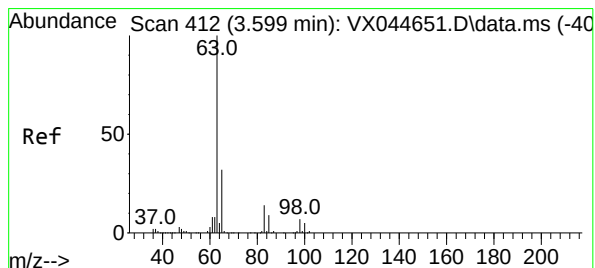
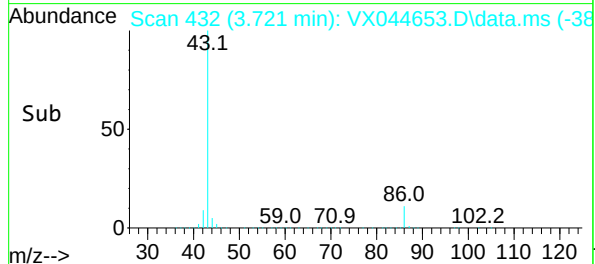
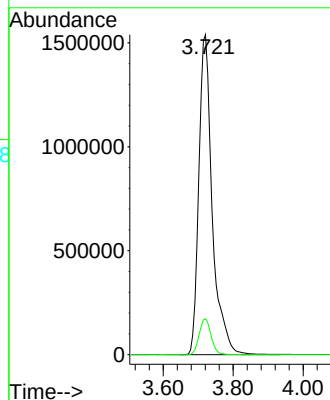
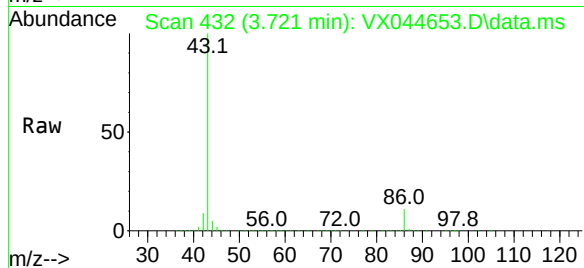
#23
Vinyl Acetate
Concen: 738.701 ug/l
RT: 3.721 min Scan# 411
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 410158
Ion Ratio Lower Upper
43 100
86 11.3 8.9 13.3

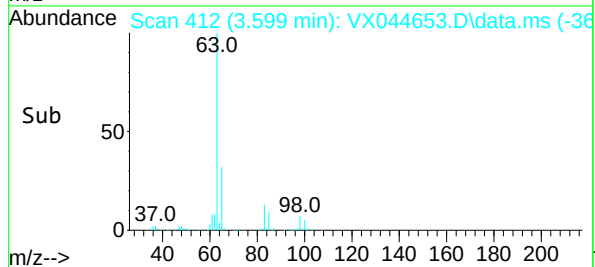
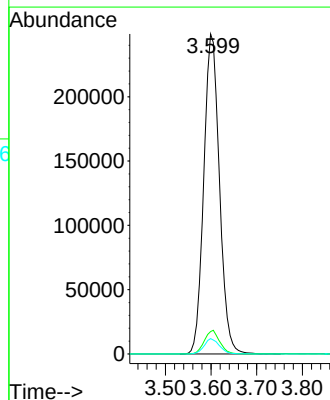
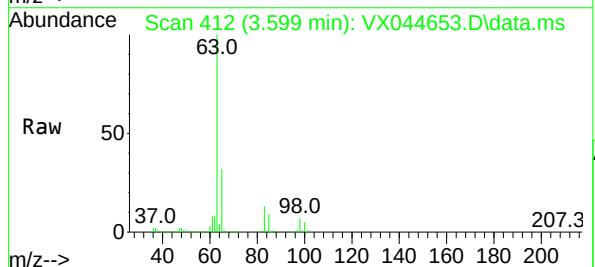
Manual Integrations
APPROVED

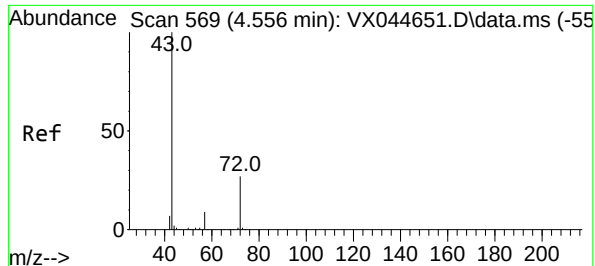
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#24
1,1-Dichloroethane
Concen: 158.014 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

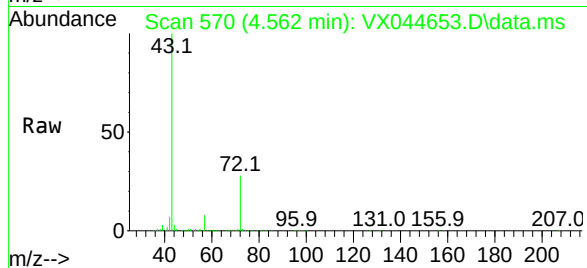
Tgt Ion: 63 Resp: 594429
Ion Ratio Lower Upper
63 100
98 7.0 3.6 10.9
100 4.8 2.5 7.5





#25
2-Butanone
Concen: 759.640 ug/l
RT: 4.562 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

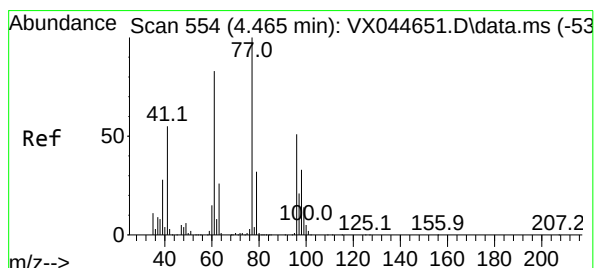
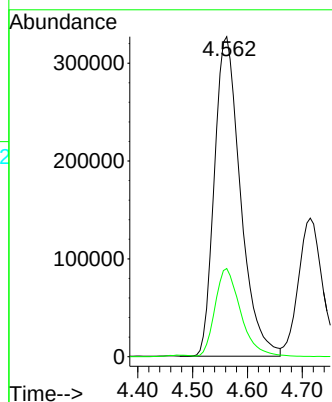
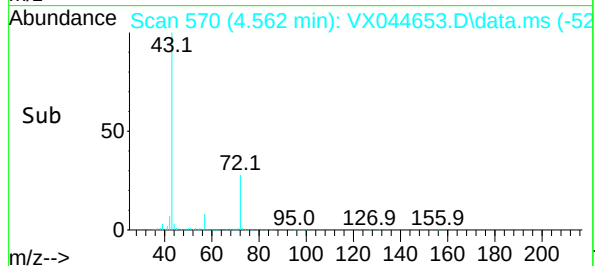
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 43 Resp: 1079710
Ion Ratio Lower Upper
43 100
72 27.1 21.7 32.5

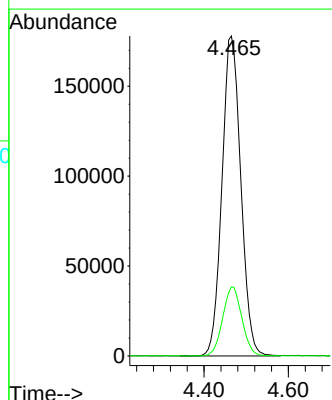
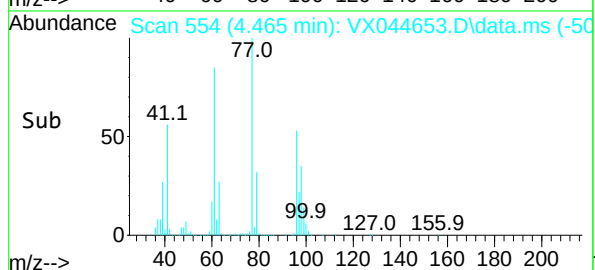
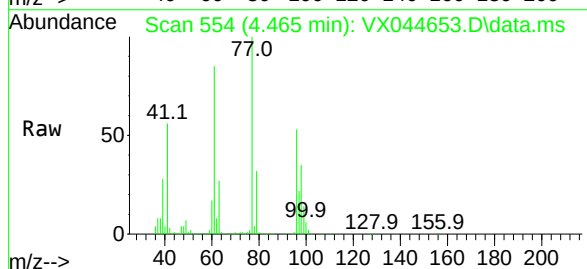
Manual Integrations
APPROVED

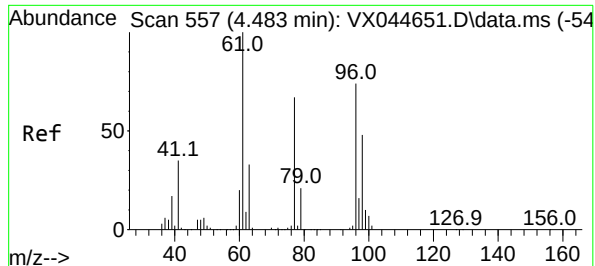
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#26
2,2-Dichloropropane
Concen: 150.882 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 77 Resp: 550106
Ion Ratio Lower Upper
77 100
97 22.0 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 150.386 ug/l

RT: 4.477 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 37017

Ion Ratio Lower Upper

96 100

61 147.0 0.0 296.0

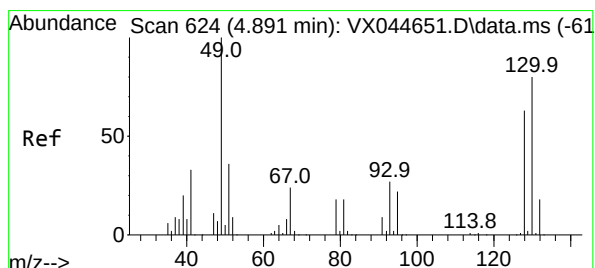
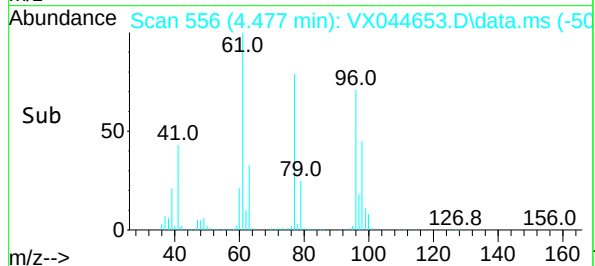
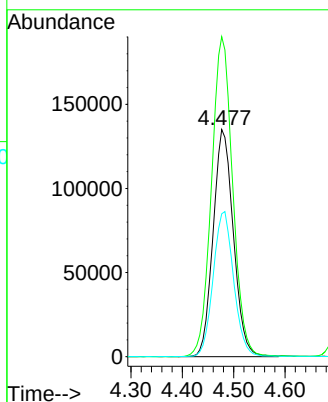
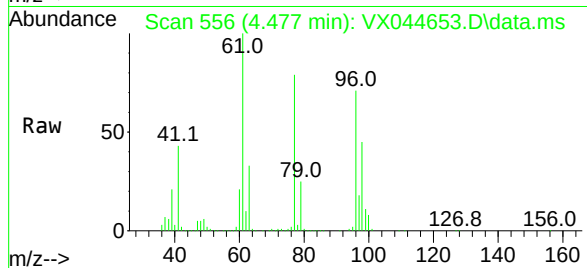
98 64.4 0.0 130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#28

Bromochloromethane

Concen: 142.922 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

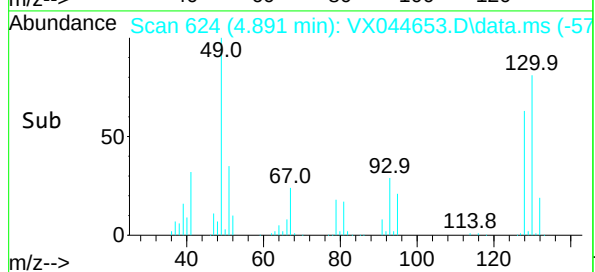
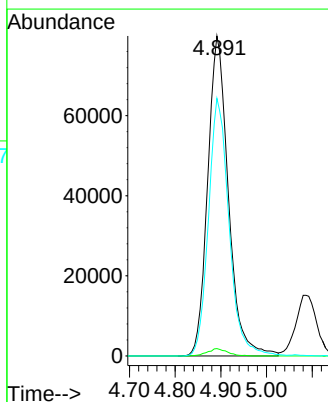
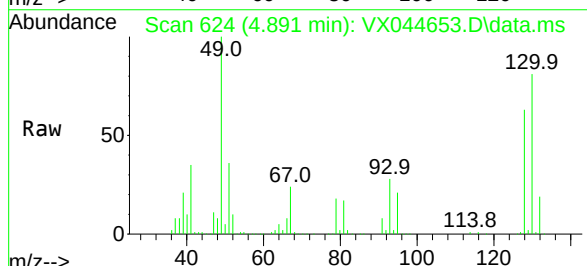
Tgt Ion: 49 Resp: 251238

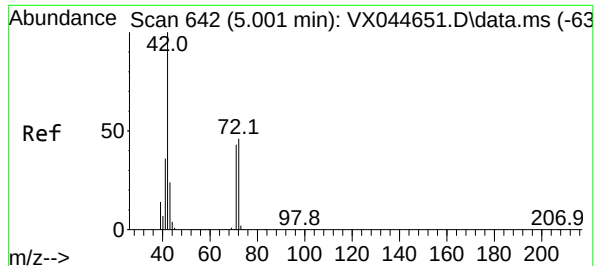
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.4

130 80.2 63.4 95.2





#29

Tetrahydrofuran

Concen: 752.528 ug/l

RT: 5.007 min Scan# 642

Delta R.T. 0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 689928

Ion Ratio Lower Upper

42 100

72 47.0 38.2 57.4

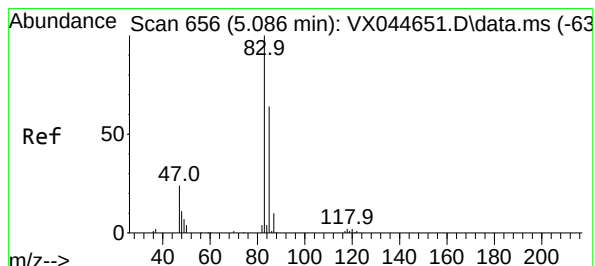
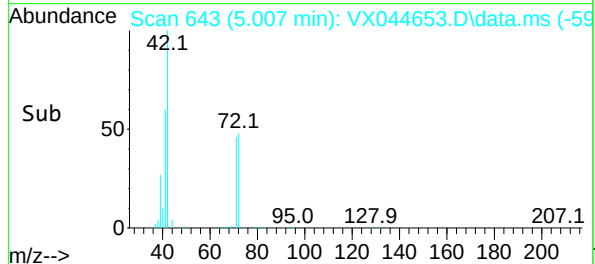
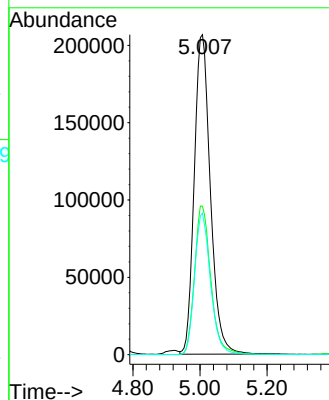
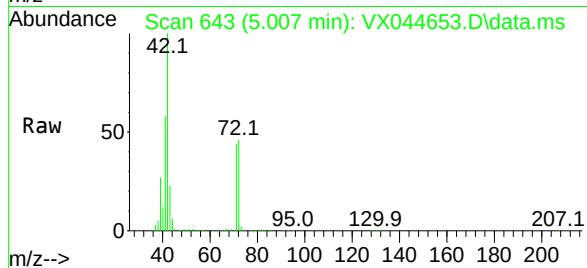
71 43.6 35.3 52.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#30

Chloroform

Concen: 152.595 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044653.D

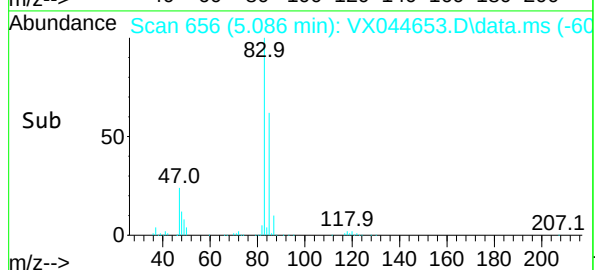
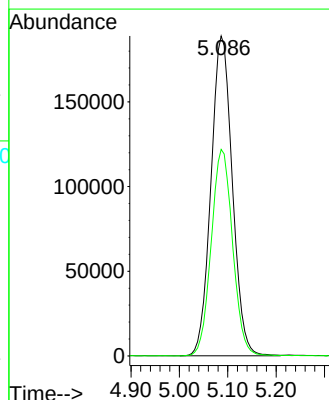
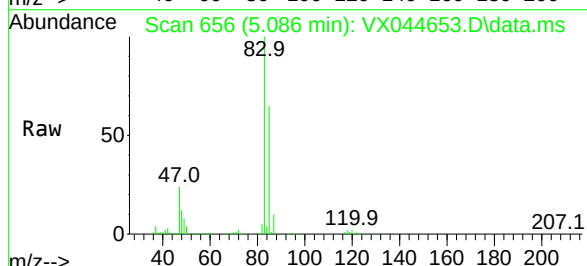
Acq: 15 Jan 2025 13:37

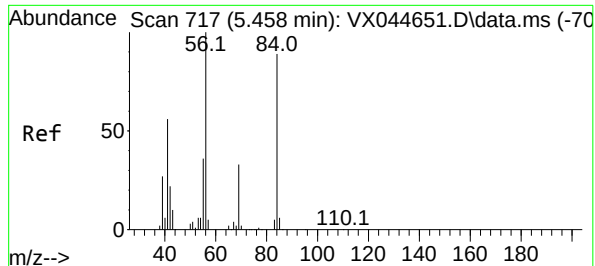
Tgt Ion: 83 Resp: 579322

Ion Ratio Lower Upper

83 100

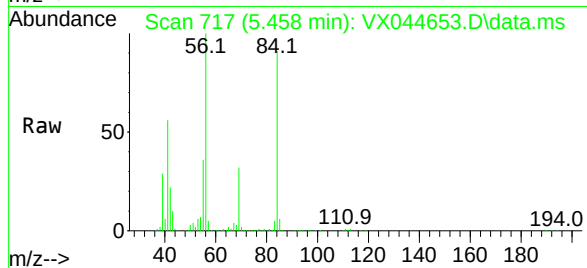
85 64.5 51.2 76.8





#31
Cyclohexane
Concen: 156.483 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

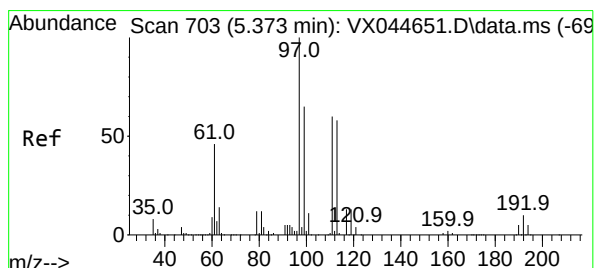
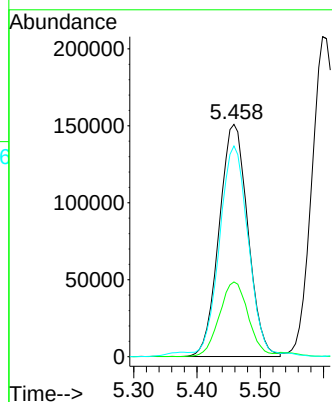
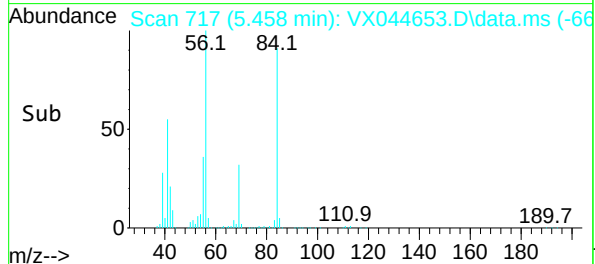
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 56 Resp: 476100
Ion Ratio Lower Upper
56 100
69 32.1 26.8 40.2
84 89.3 71.0 106.4

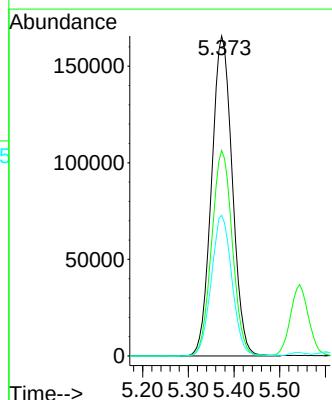
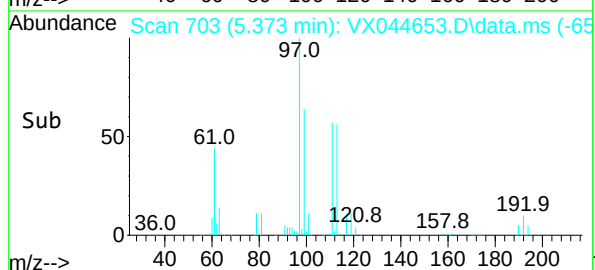
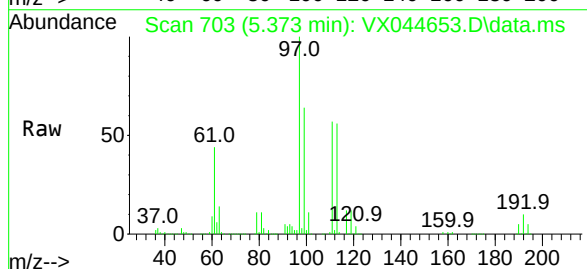
Manual Integrations
APPROVED

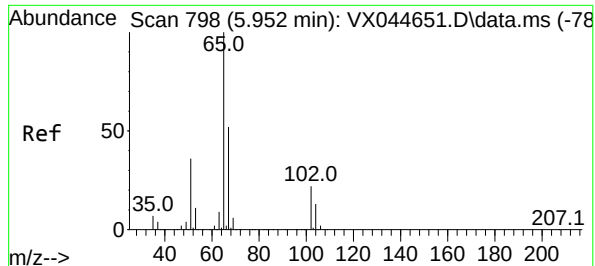
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#32
1,1,1-Trichloroethane
Concen: 149.582 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 97 Resp: 522062
Ion Ratio Lower Upper
97 100
99 64.1 51.6 77.4
61 43.9 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 156.114 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 37721

Ion Ratio Lower Upper

65 100

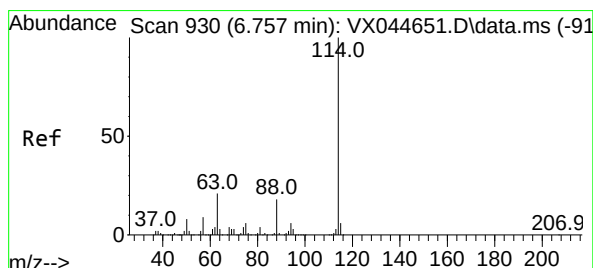
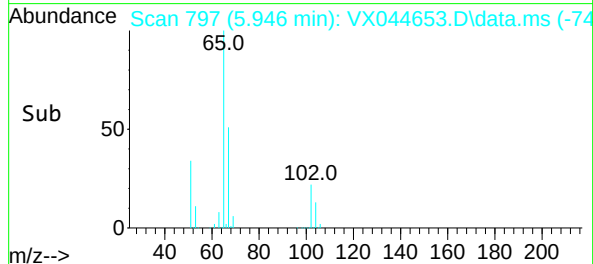
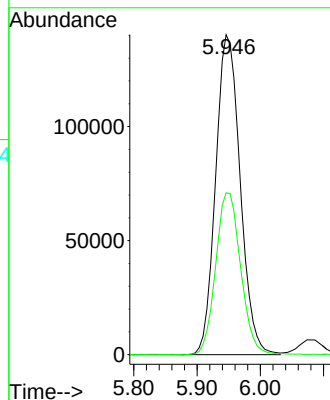
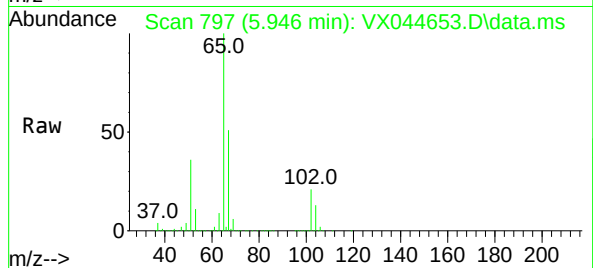
67 51.4 0.0 103.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

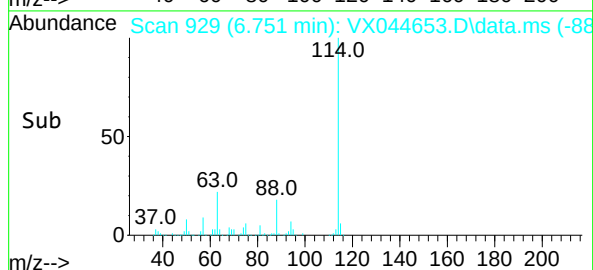
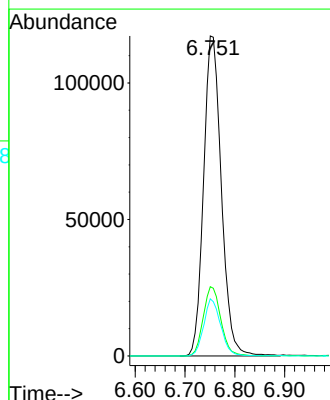
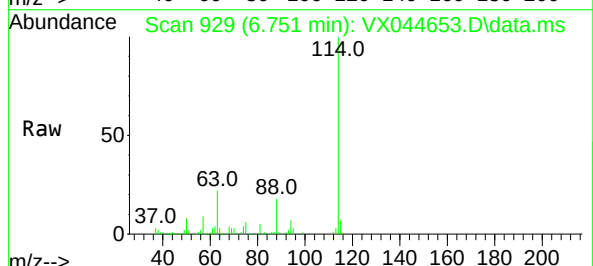
Tgt Ion:114 Resp: 290219

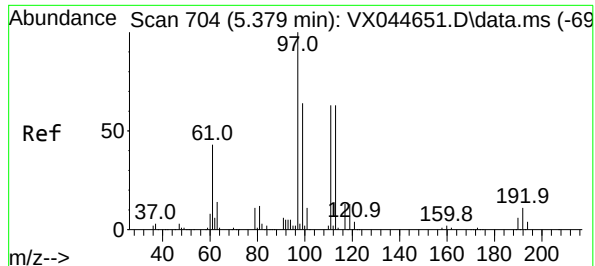
Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.0

88 17.8 0.0 35.4





#35

Dibromofluoromethane

Concen: 157.288 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:113 Resp: 289994

Ion Ratio Lower Upper

113 100

111 103.2 81.6 122.4

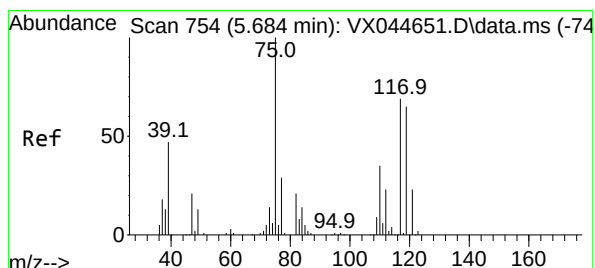
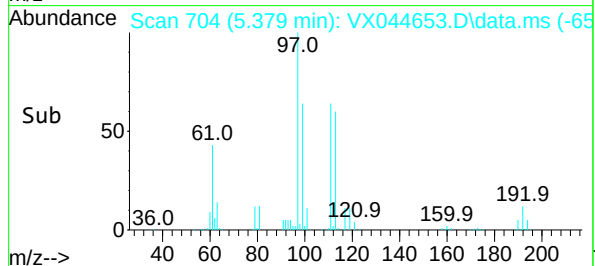
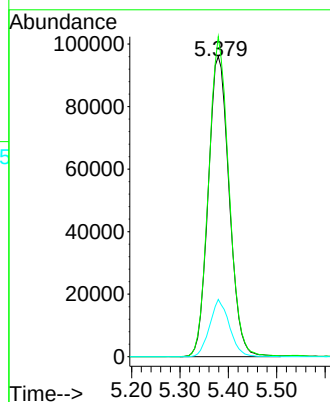
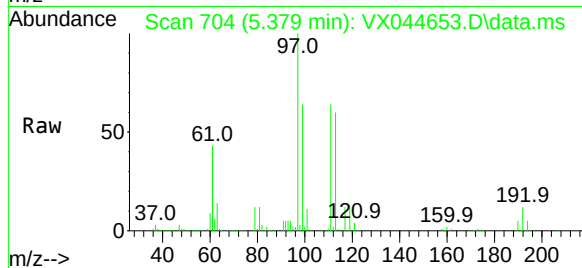
192 17.9 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#36

1,1-Dichloropropene

Concen: 150.517 ug/l

RT: 5.684 min Scan# 754

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

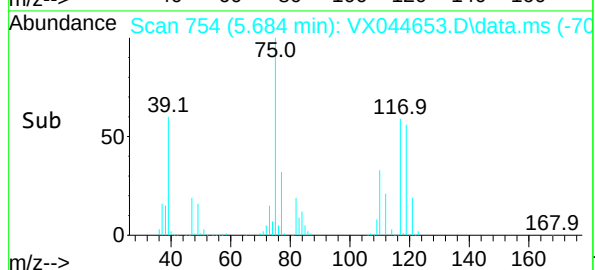
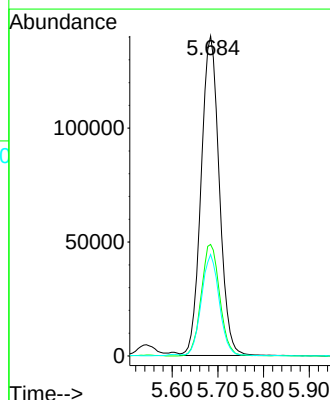
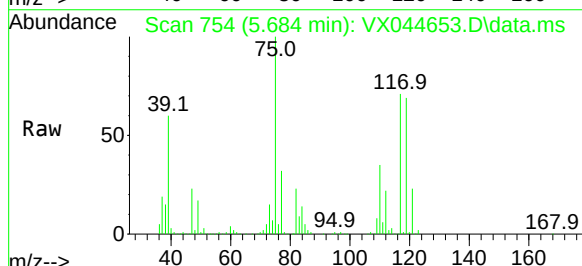
Tgt Ion: 75 Resp: 386304

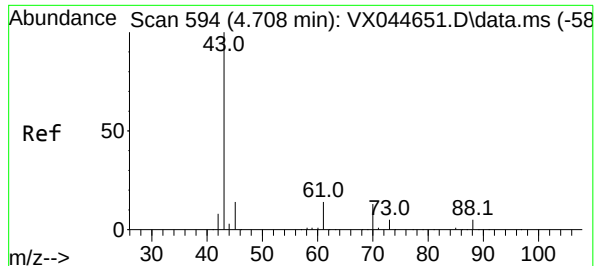
Ion Ratio Lower Upper

75 100

110 35.5 17.9 53.8

77 31.1 24.5 36.7





#37

Ethyl Acetate

Concen: 158.764 ug/l

RT: 4.715 min Scan# 594

Delta R.T. 0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

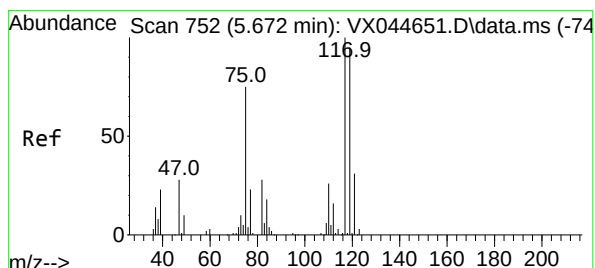
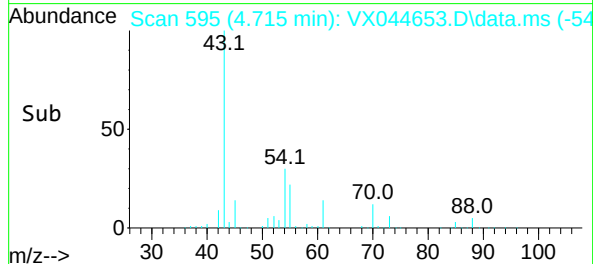
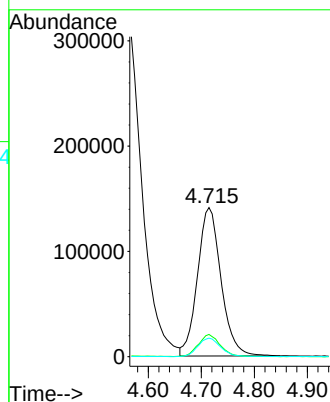
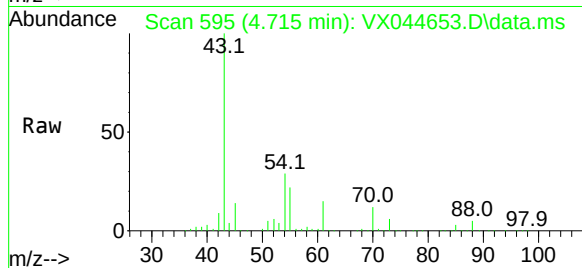
Tgt Ion:	43	Resp:	433924
Ion	Ratio	Lower	Upper
43	100		
61	14.0	10.9	16.3
70	12.3	10.1	15.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#38

Carbon Tetrachloride

Concen: 151.528 ug/l

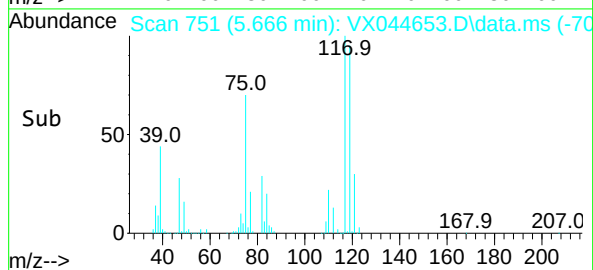
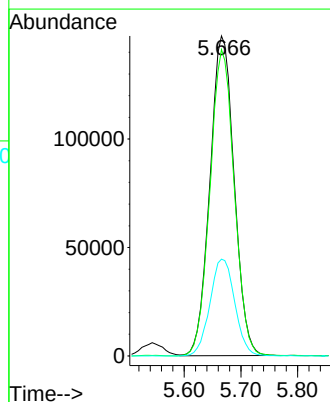
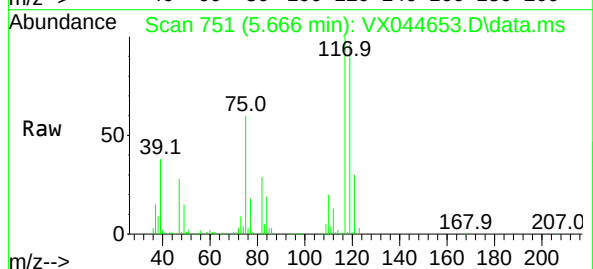
RT: 5.666 min Scan# 751

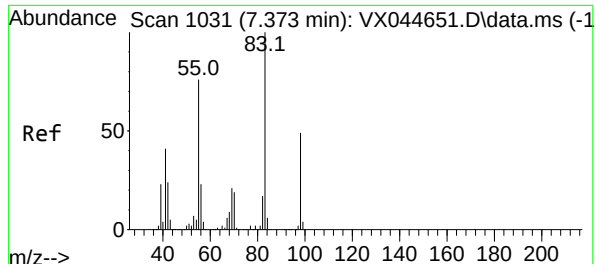
Delta R.T. -0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Tgt Ion:	117	Resp:	437442
Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.0	114.0
121	30.3	24.6	36.8





#39

Methylcyclohexane

Concen: 157.021 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 534970

Ion Ratio Lower Upper

83 100

55 76.6 60.5 90.7

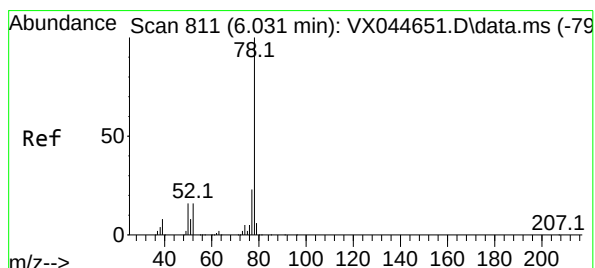
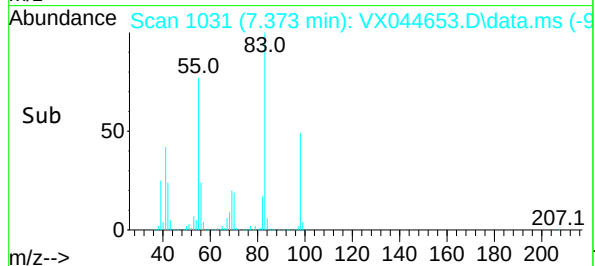
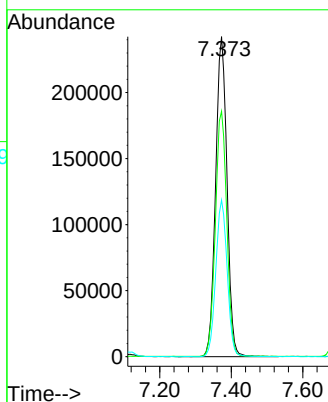
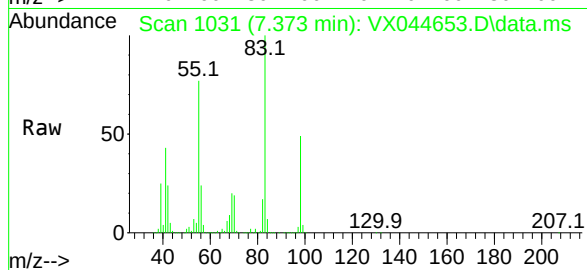
98 49.0 39.0 58.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#40

Benzene

Concen: 151.523 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044653.D

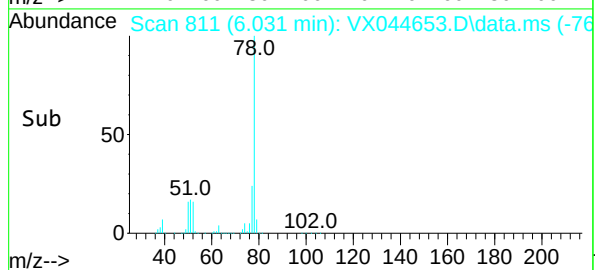
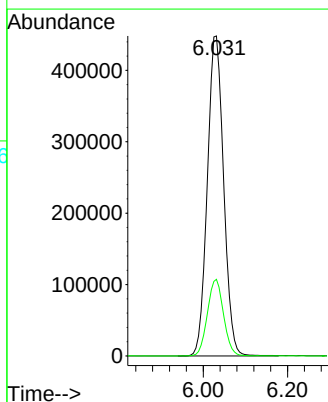
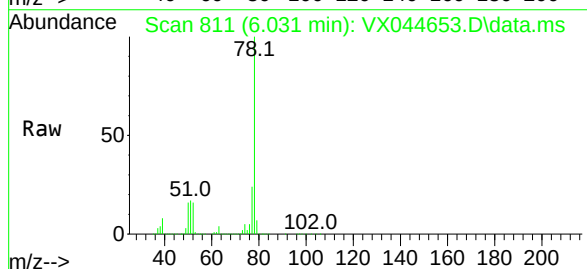
Acq: 15 Jan 2025 13:37

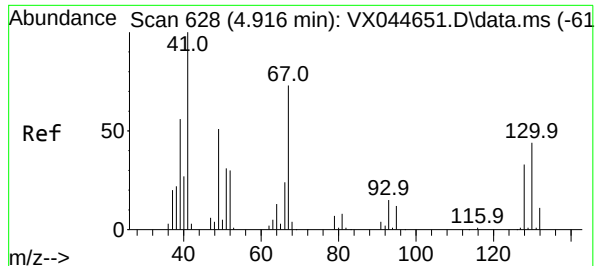
Tgt Ion: 78 Resp: 1205057

Ion Ratio Lower Upper

78 100

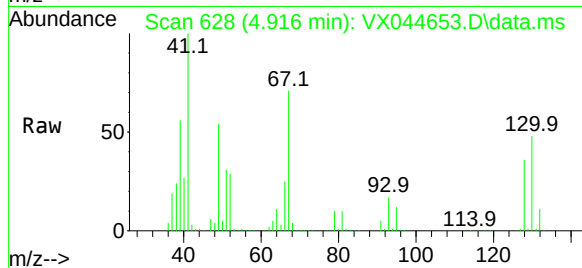
77 24.0 18.7 28.1





#41
Methacrylonitrile
Concen: 151.900 ug/l
RT: 4.916 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

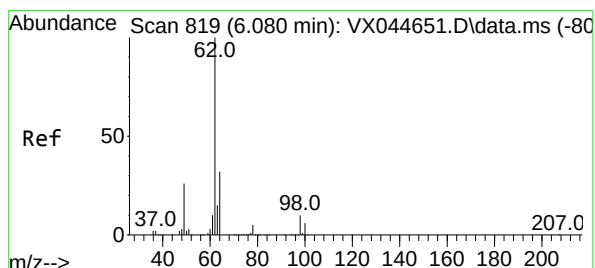
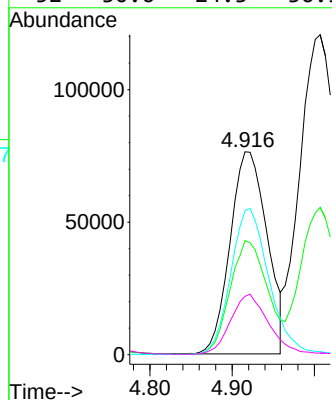
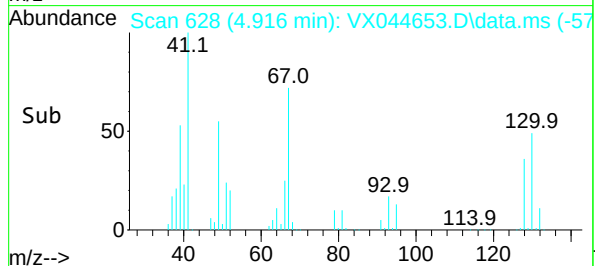
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 41 Resp: 23860
Ion Ratio Lower Upper
41 100
39 57.9 44.4 66.6
67 74.8 60.6 90.8
52 30.6 24.3 36.5

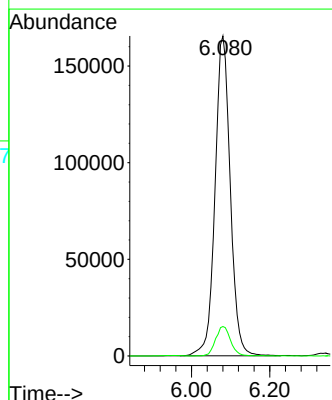
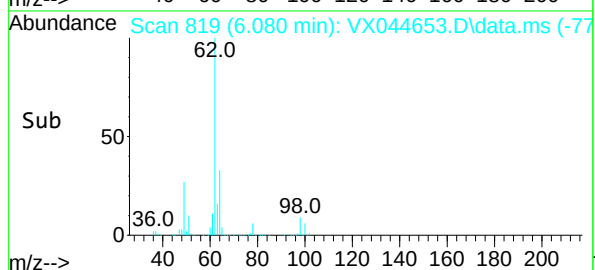
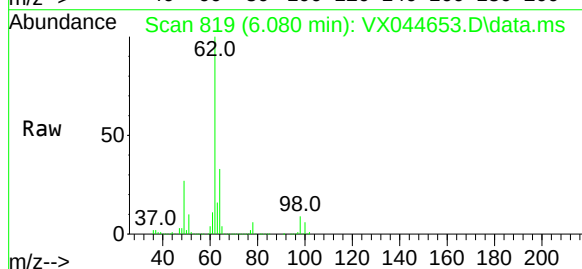
Manual Integrations
APPROVED

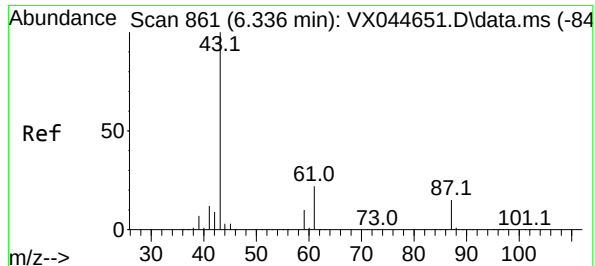
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#42
1,2-Dichloroethane
Concen: 153.782 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 62 Resp: 446380
Ion Ratio Lower Upper
62 100
98 9.1 0.0 19.4





#43

Isopropyl Acetate

Concen: 151.528 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 761860

Ion Ratio Lower Upper

43 100

61 20.8 16.6 24.8

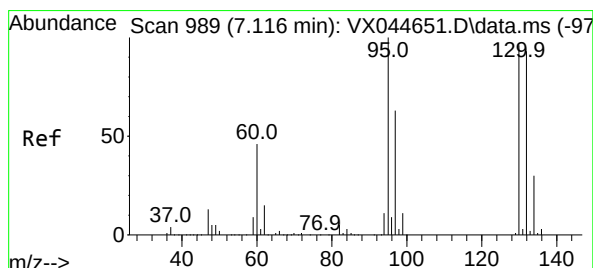
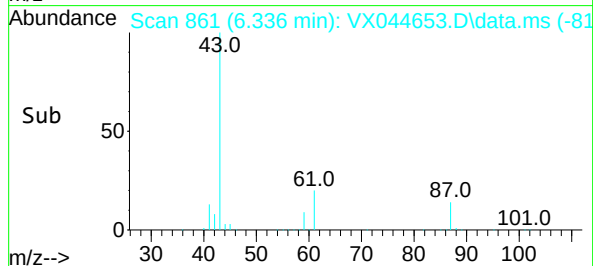
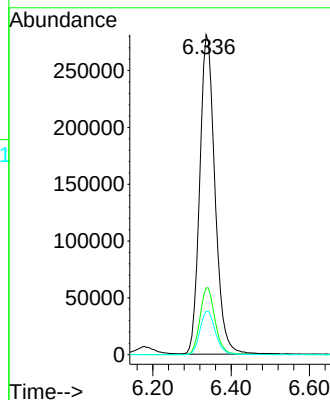
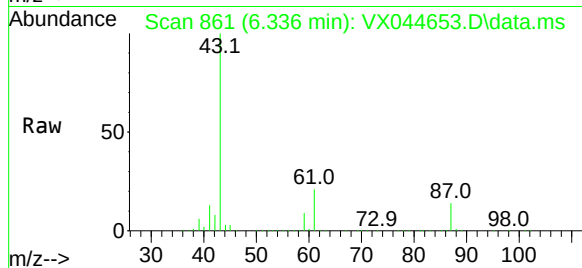
87 14.0 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#44

Trichloroethene

Concen: 161.735 ug/l

RT: 7.117 min Scan# 989

Delta R.T. 0.000 min

Lab File: VX044653.D

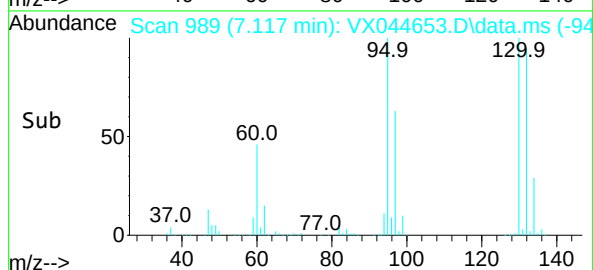
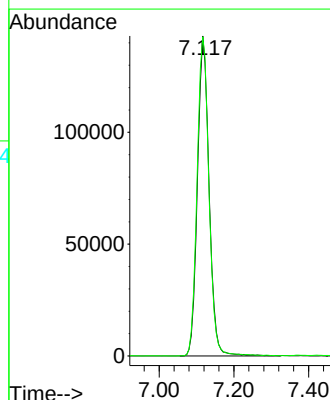
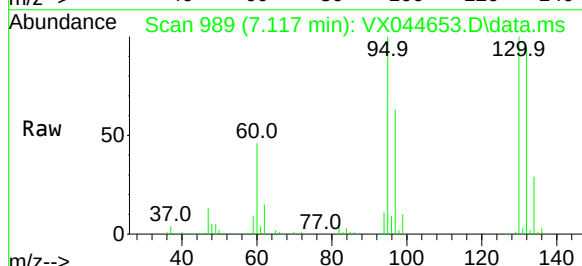
Acq: 15 Jan 2025 13:37

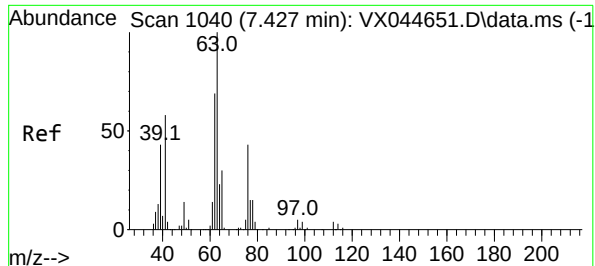
Tgt Ion:130 Resp: 309226

Ion Ratio Lower Upper

130 100

95 99.7 0.0 208.2





#45

1,2-Dichloropropane

Concen: 154.175 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 30864

Ion Ratio Lower Upper

63 100

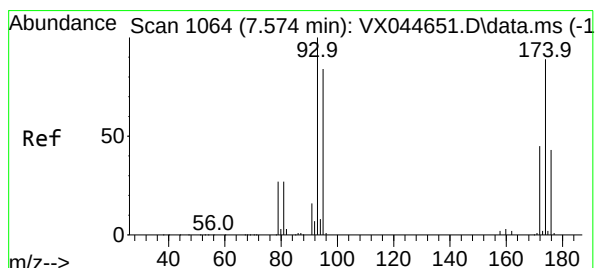
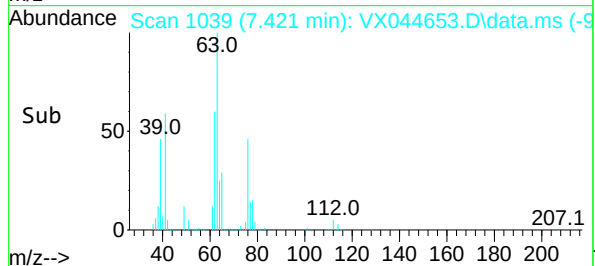
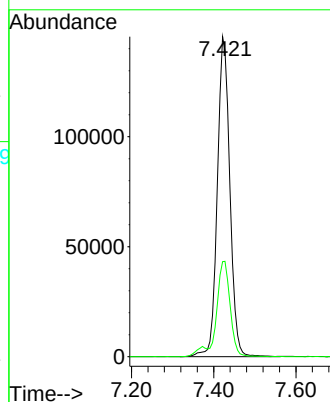
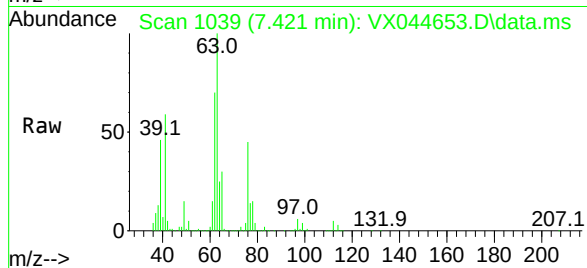
65 29.7 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#46

Dibromomethane

Concen: 152.021 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

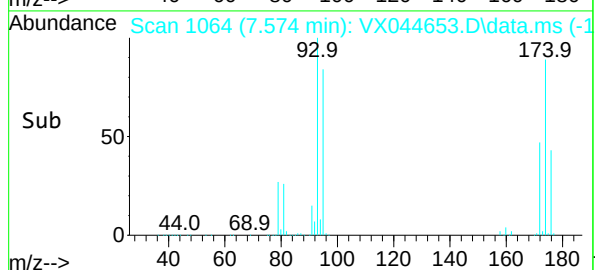
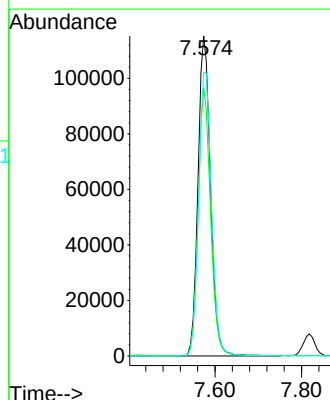
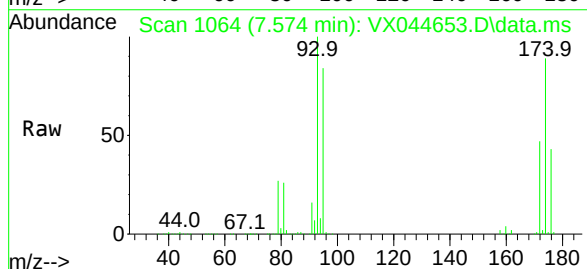
Tgt Ion: 93 Resp: 231674

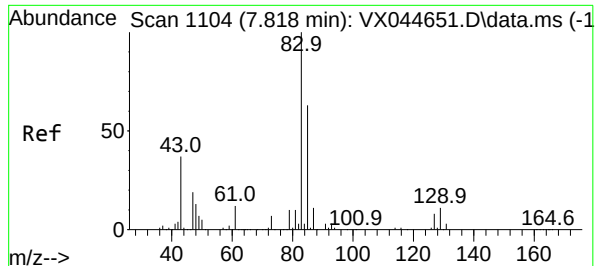
Ion Ratio Lower Upper

93 100

95 82.6 66.4 99.6

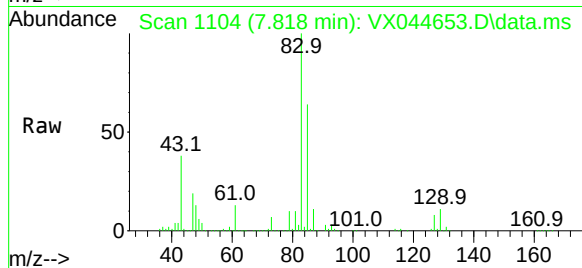
174 91.2 72.0 108.0





#47
Bromodichloromethane
Concen: 150.924 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

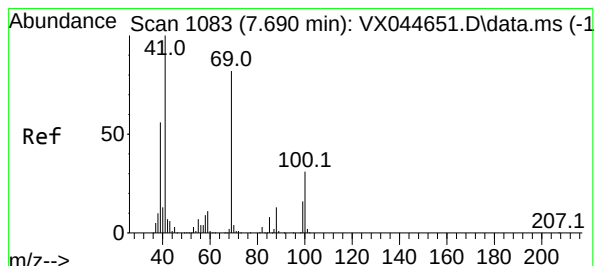
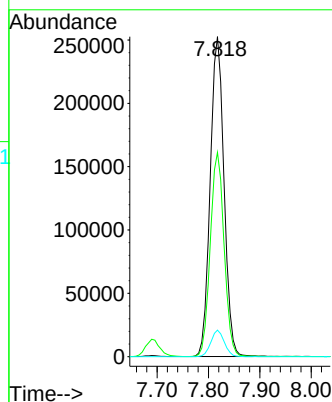
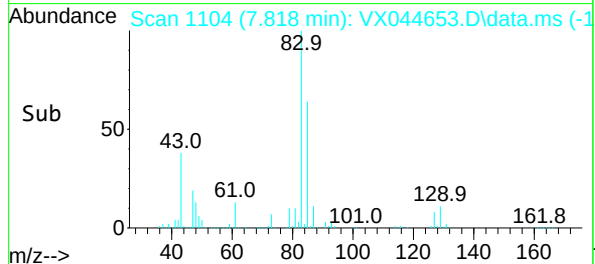
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 83 Resp: 47168
Ion Ratio Lower Upper
83 100
85 63.8 50.1 75.1
127 8.3 6.5 9.7

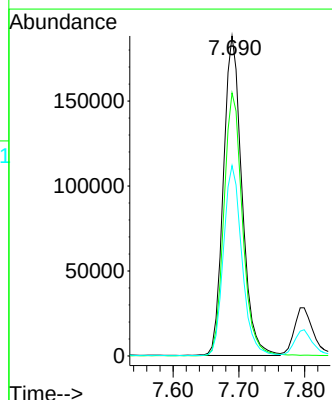
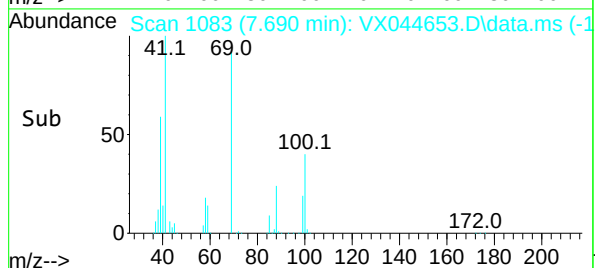
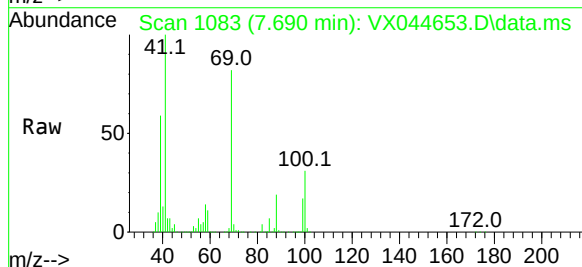
Manual Integrations
APPROVED

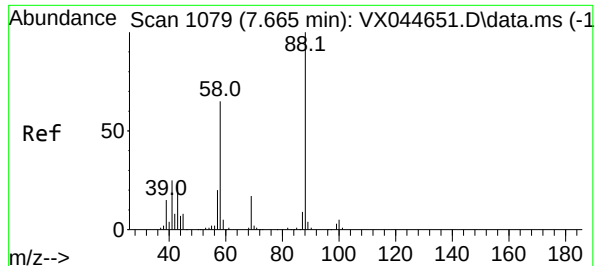
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#48
Methyl methacrylate
Concen: 157.946 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 41 Resp: 368626
Ion Ratio Lower Upper
41 100
69 82.4 66.8 100.2
39 59.1 47.4 71.0





#49

1,4-Dioxane

Concen: 3005.585 ug/l

RT: 7.671 min Scan# 1079

Delta R.T. 0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 88 Resp: 146350

Ion Ratio Lower Upper

88 100

43 33.0 27.0 40.4

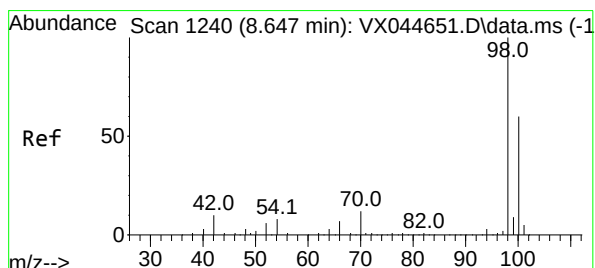
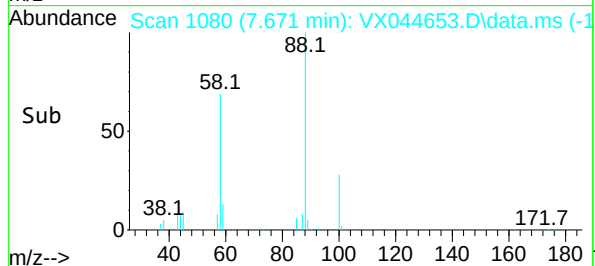
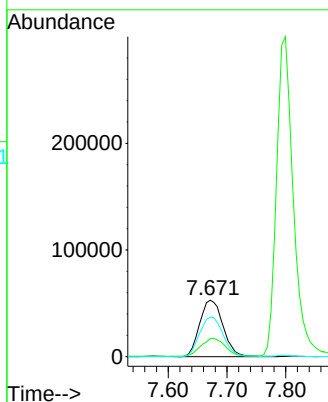
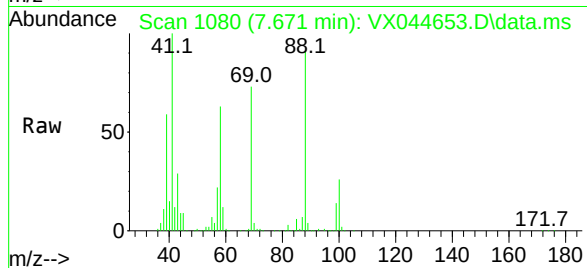
58 70.7 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#50

Toluene-d8

Concen: 149.572 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044653.D

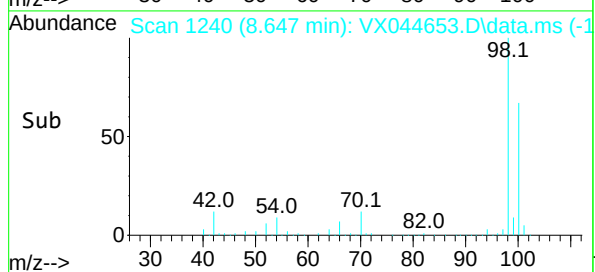
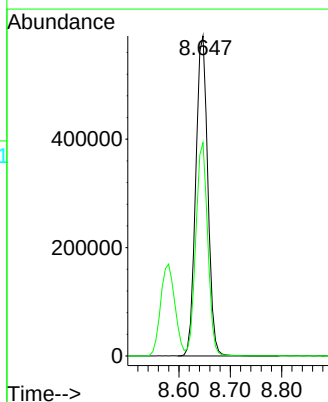
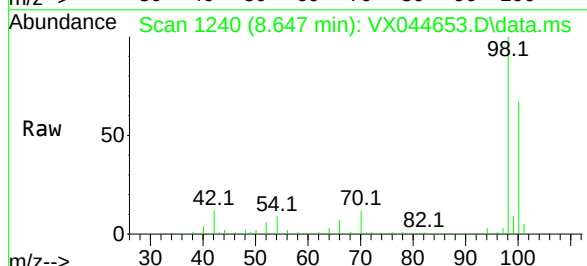
Acq: 15 Jan 2025 13:37

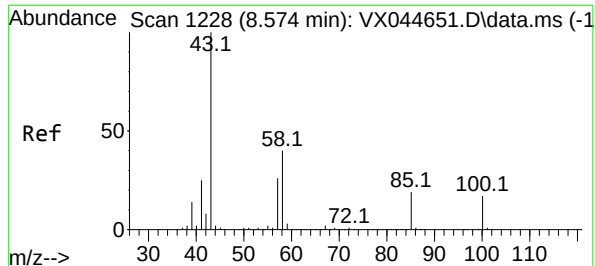
Tgt Ion: 98 Resp: 961550

Ion Ratio Lower Upper

98 100

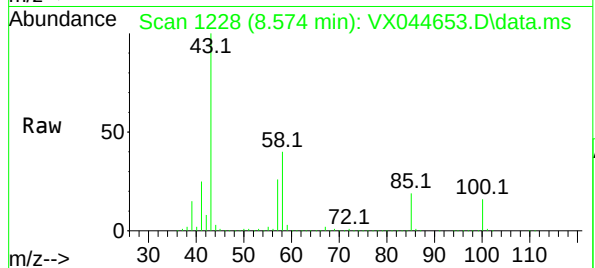
100 66.1 53.2 79.8





#51
4-Methyl-2-Pentanone
Concen: 717.818 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

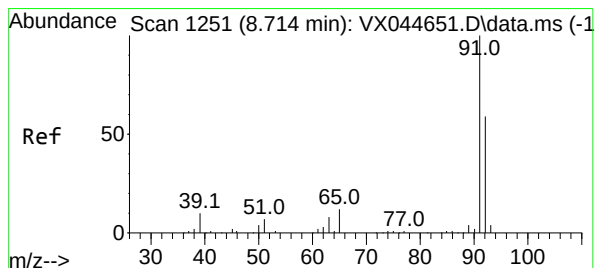
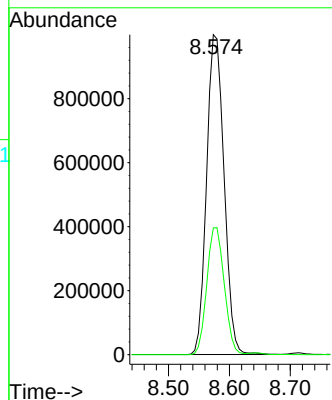
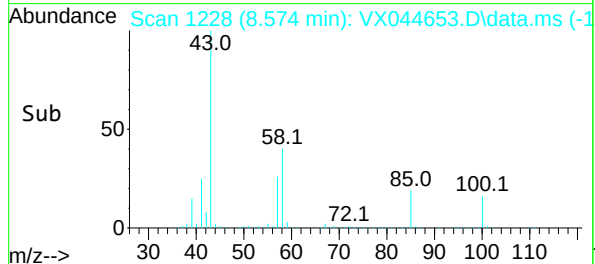
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 43 Resp: 1994498
Ion Ratio Lower Upper
43 100
58 39.7 31.9 47.9

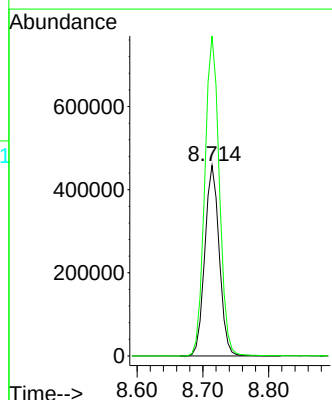
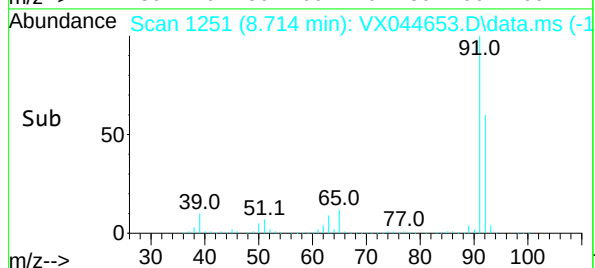
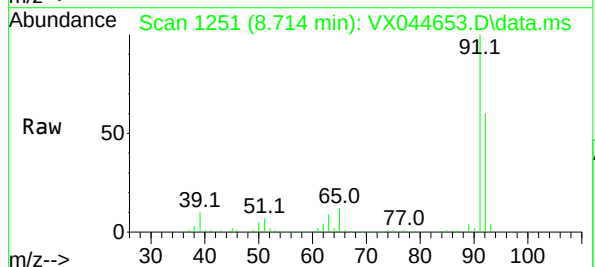
Manual Integrations
APPROVED

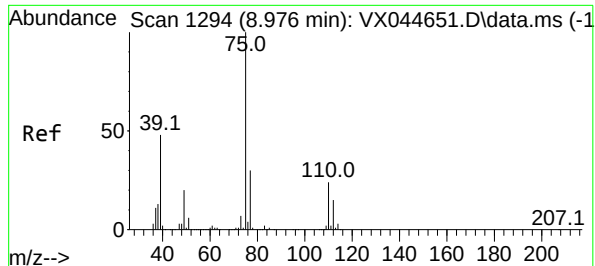
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#52
Toluene
Concen: 143.719 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 92 Resp: 699585
Ion Ratio Lower Upper
92 100
91 169.9 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 151.880 ug/l

RT: 8.976 min Scan# 1294

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 490414

Ion Ratio Lower Upper

75 100

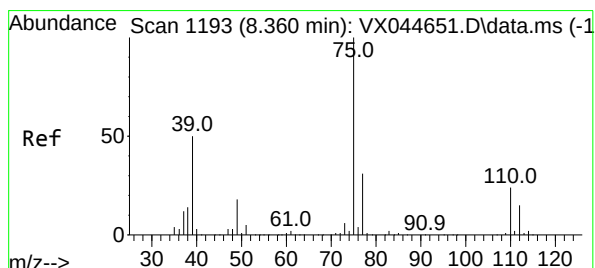
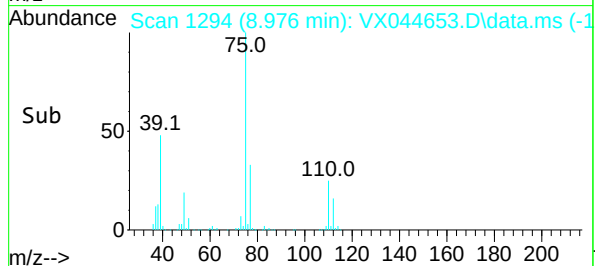
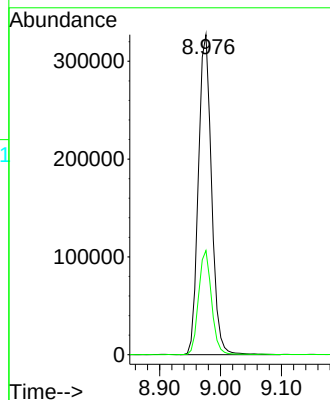
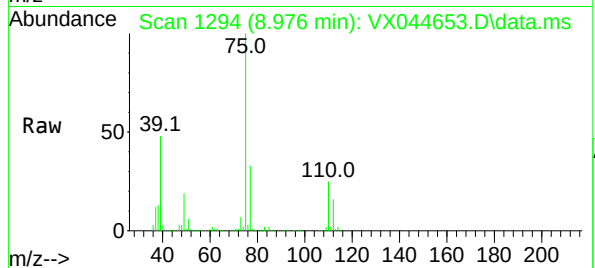
77 32.5 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#54

cis-1,3-Dichloropropene

Concen: 149.891 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

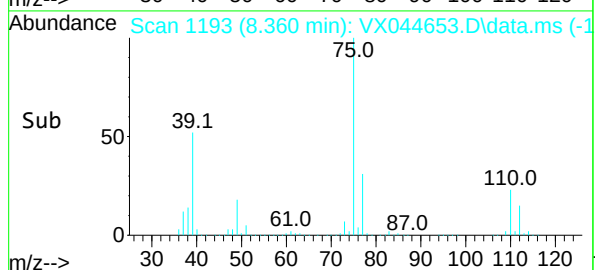
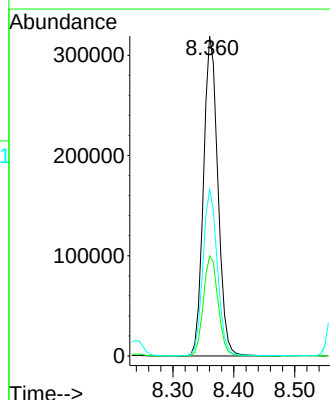
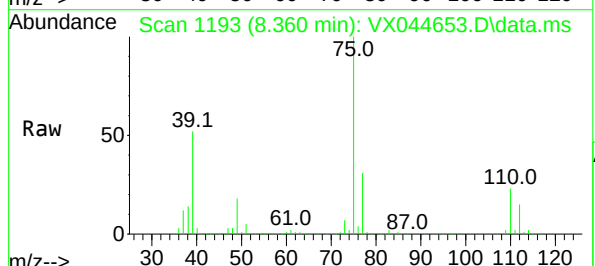
Tgt Ion: 75 Resp: 524796

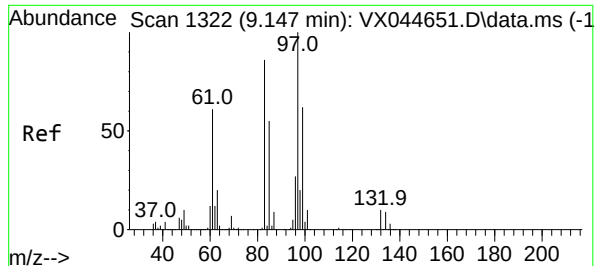
Ion Ratio Lower Upper

75 100

77 31.2 25.1 37.7

39 52.0 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 141.923 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 27950

Ion Ratio Lower Upper

97 100

83 86.2 68.8 103.2

85 56.0 43.7 65.5

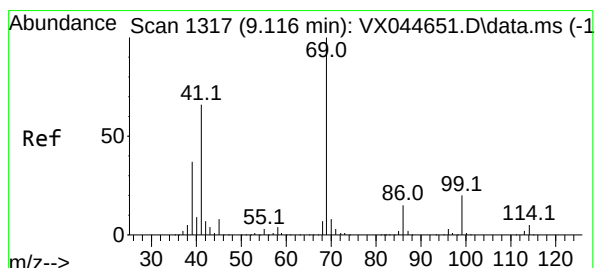
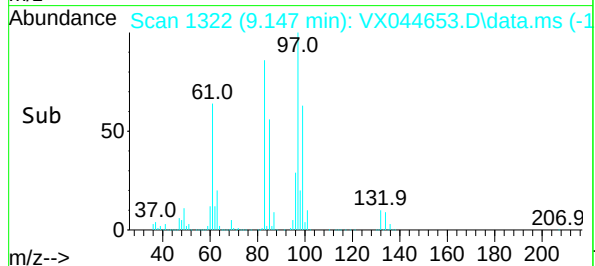
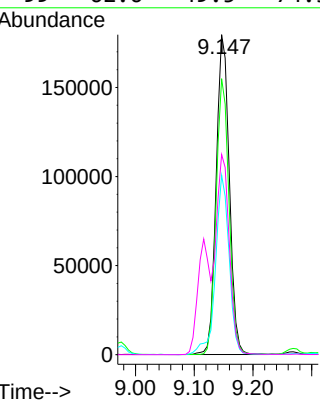
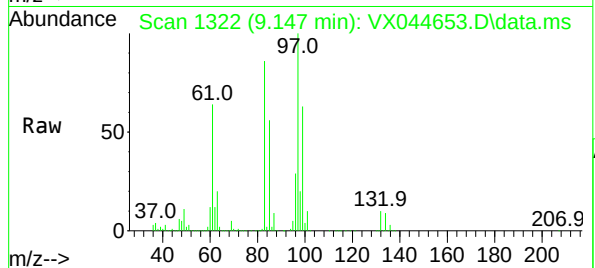
99 62.6 49.5 74.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#56

Ethyl methacrylate

Concen: 147.609 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

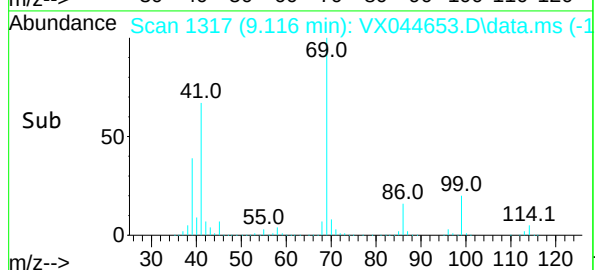
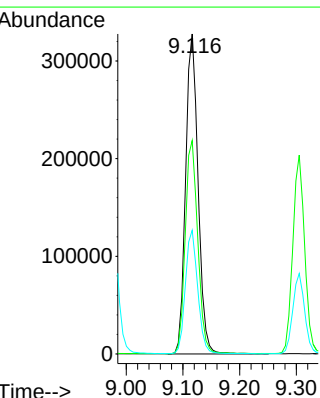
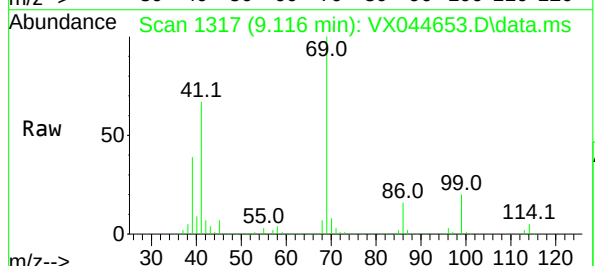
Tgt Ion: 69 Resp: 499842

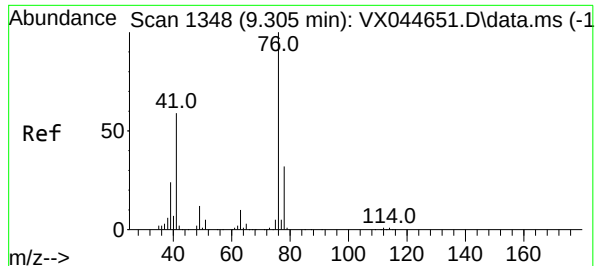
Ion Ratio Lower Upper

69 100

41 66.9 53.2 79.8

39 38.0 30.2 45.2





#57

1,3-Dichloropropane

Concen: 144.720 ug/l

RT: 9.305 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 48534

Ion Ratio Lower Upper

76 100

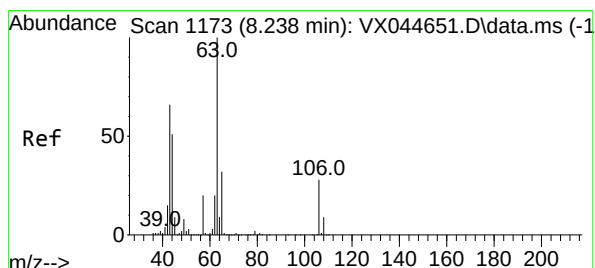
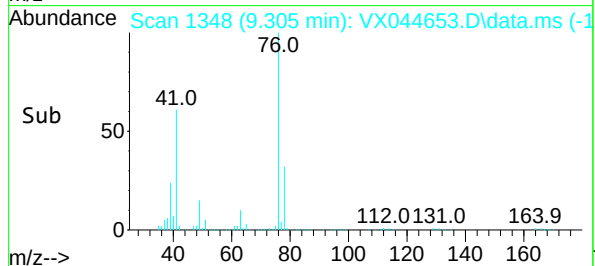
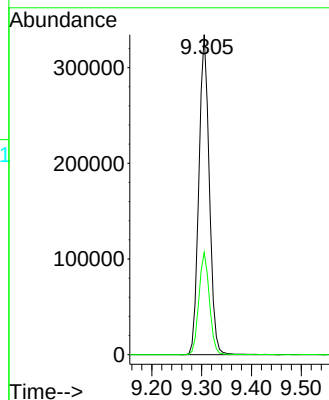
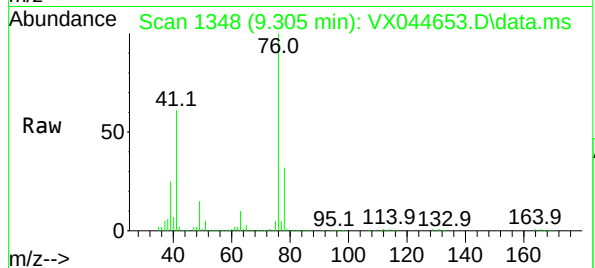
78 32.1 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#58

2-Chloroethyl Vinyl ether

Concen: 708.825 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044653.D

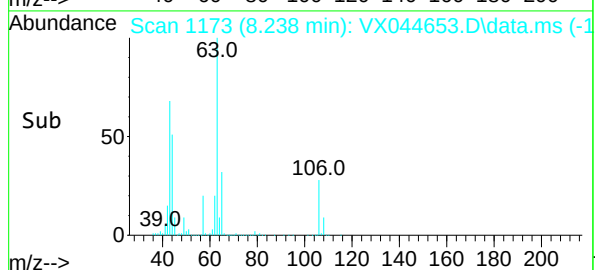
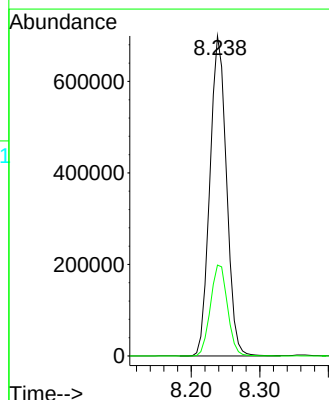
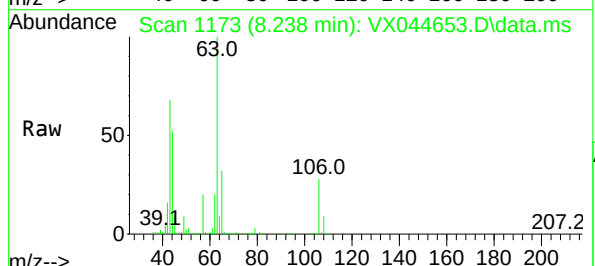
Acq: 15 Jan 2025 13:37

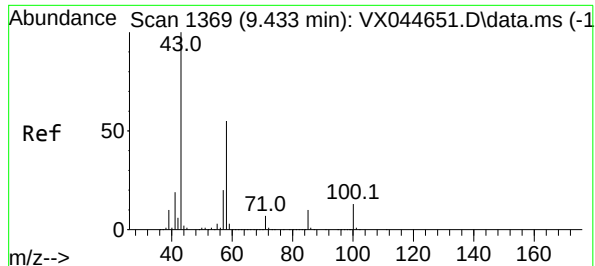
Tgt Ion: 63 Resp: 1178391

Ion Ratio Lower Upper

63 100

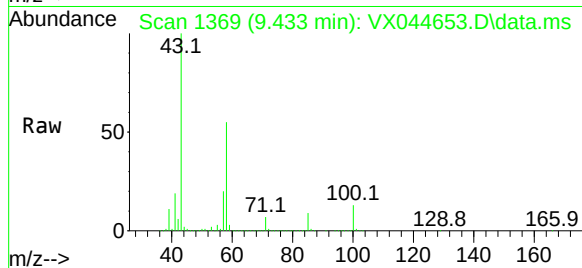
106 29.1 23.0 34.6





#59
2-Hexanone
Concen: 725.401 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

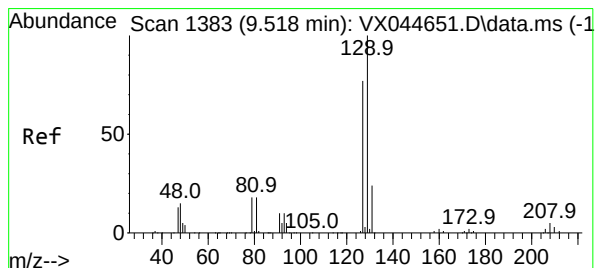
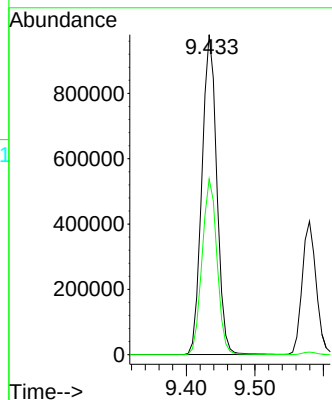
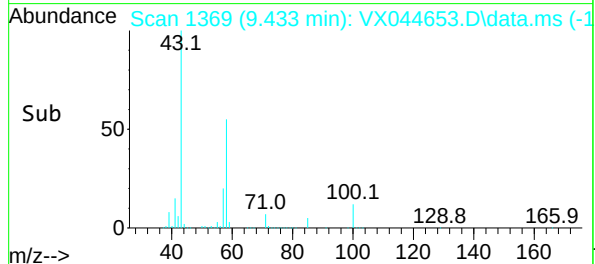
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 43 Resp: 148286
Ion Ratio Lower Upper
43 100
58 55.1 27.8 83.3

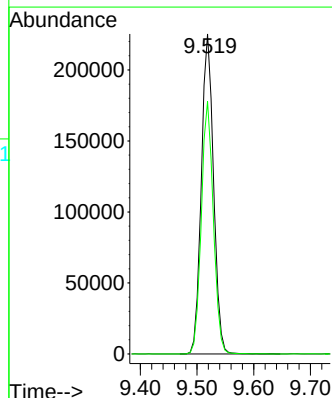
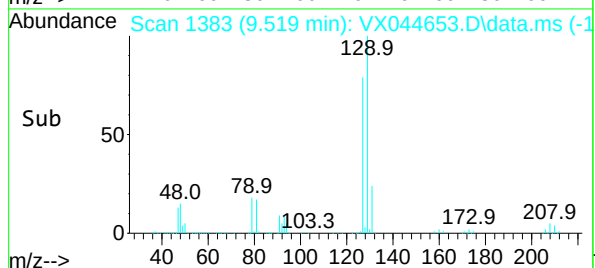
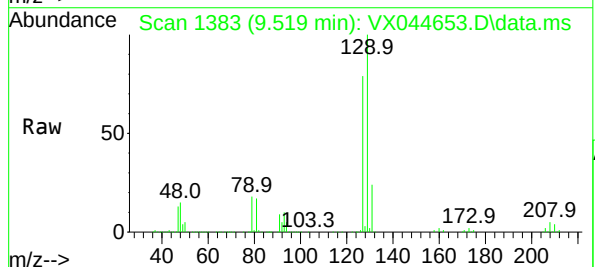
Manual Integrations
APPROVED

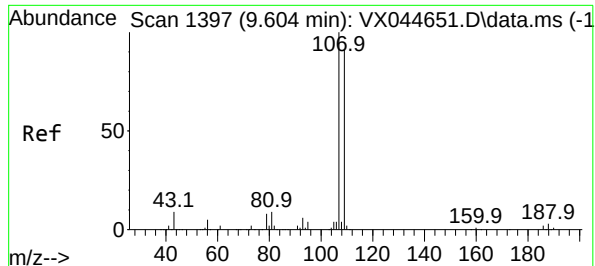
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#60
Dibromochloromethane
Concen: 145.333 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

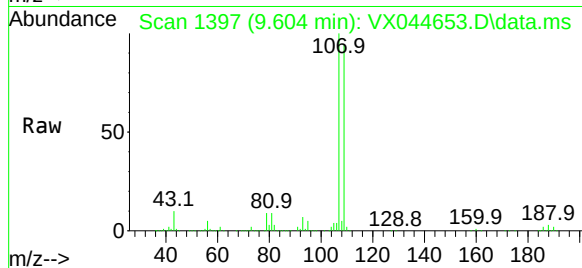
Tgt Ion:129 Resp: 335937
Ion Ratio Lower Upper
129 100
127 77.9 38.5 115.5





#61
1,2-Dibromoethane
Concen: 143.893 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

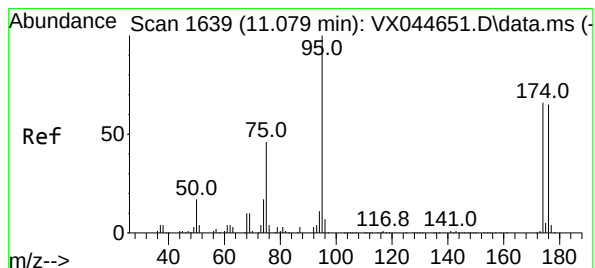
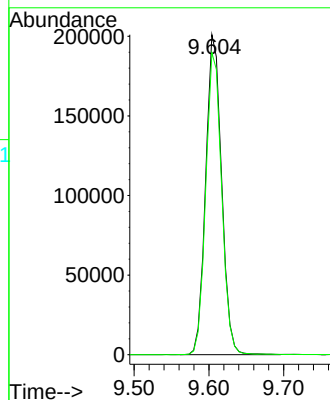
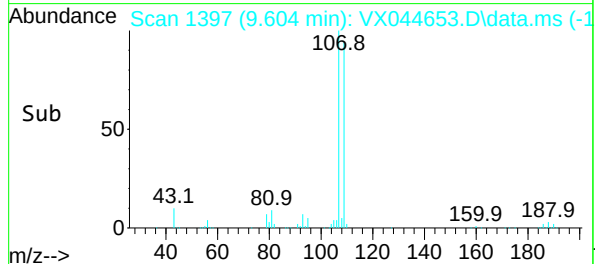
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:107 Resp: 296982
Ion Ratio Lower Upper
107 100
109 94.6 75.3 112.9

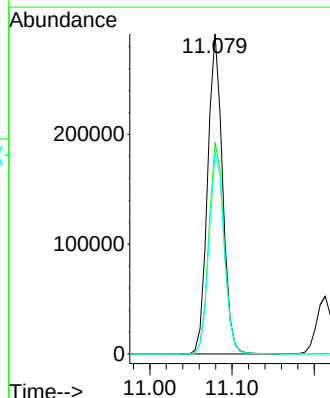
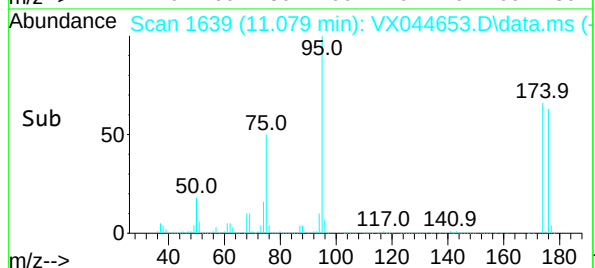
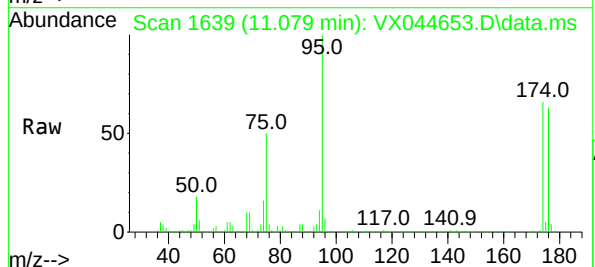
Manual Integrations
APPROVED

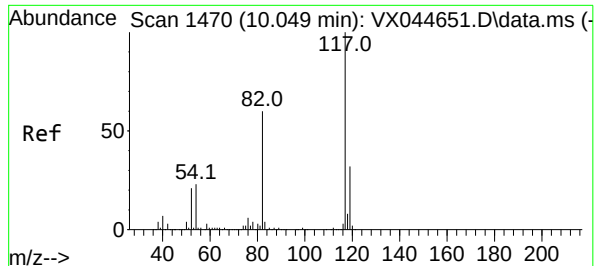
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#62
4-Bromofluorobenzene
Concen: 153.105 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

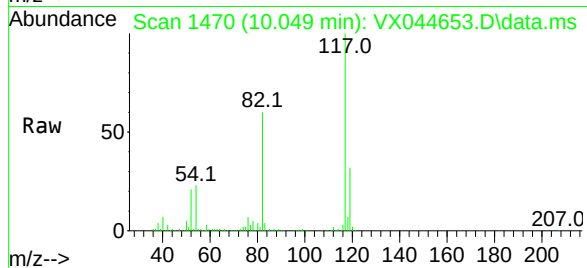
Tgt Ion: 95 Resp: 366922
Ion Ratio Lower Upper
95 100
174 67.5 0.0 133.0
176 64.4 0.0 129.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

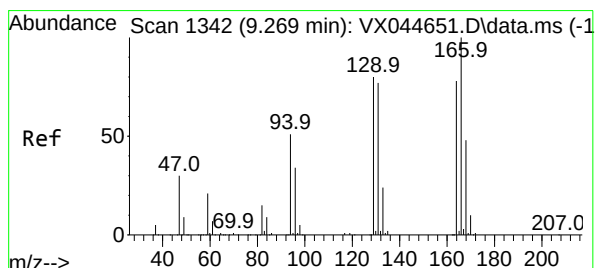
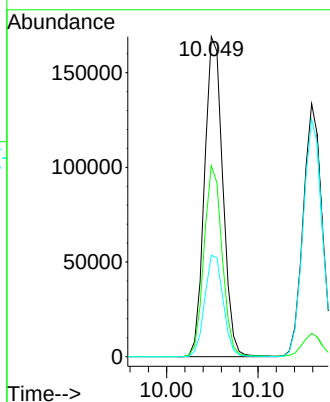
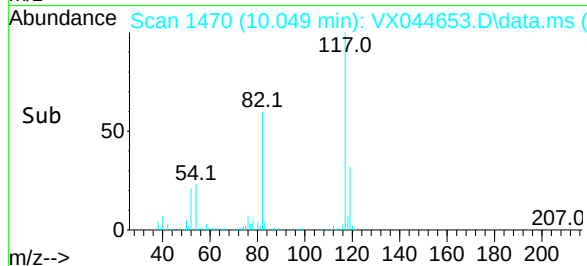
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:117 Resp: 234362
Ion Ratio Lower Upper
117 100
82 59.6 47.6 71.4
119 31.7 25.4 38.2

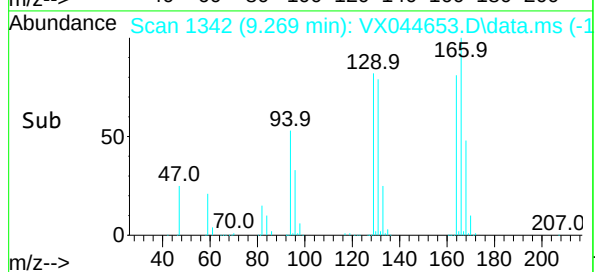
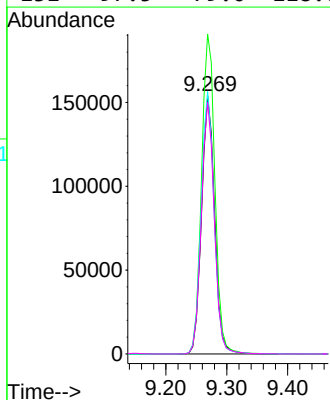
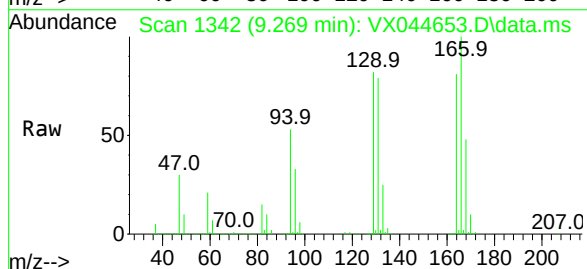
Manual Integrations
APPROVED

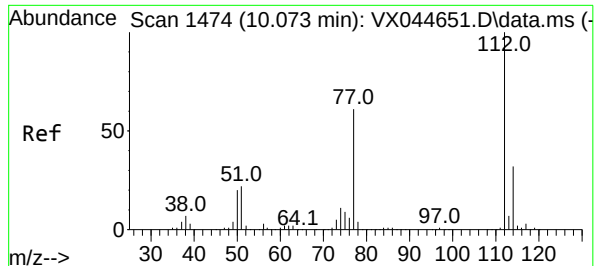
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#64
Tetrachloroethene
Concen: 155.612 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

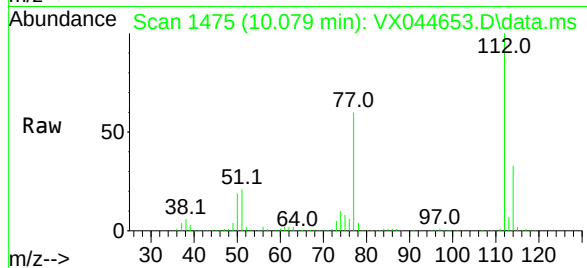
Tgt Ion:164 Resp: 229004
Ion Ratio Lower Upper
164 100
166 124.0 102.0 153.0
129 101.7 81.1 121.7
131 97.5 79.0 118.6





#65
Chlorobenzene
Concen: 150.697 ug/l
RT: 10.079 min Scan# 1474
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

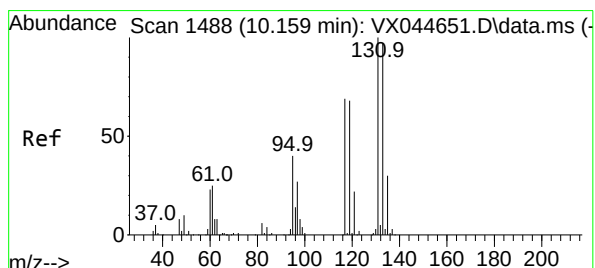
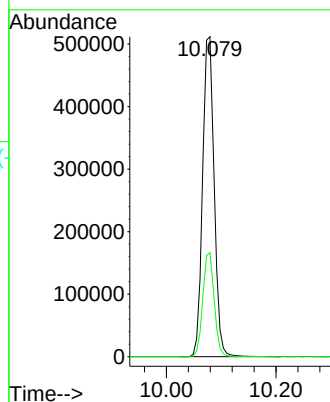
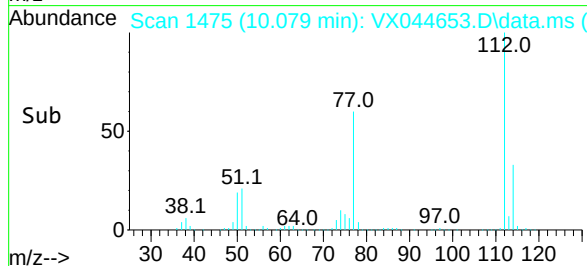
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:112 Resp: 75016
Ion Ratio Lower Upper
112 100
114 32.5 25.3 37.9

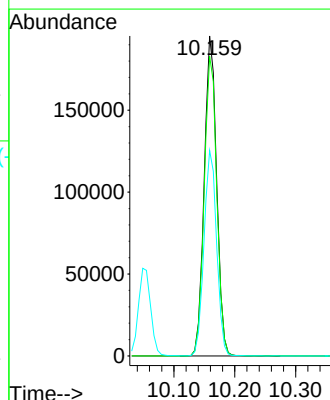
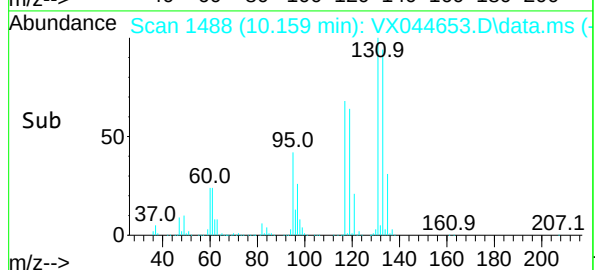
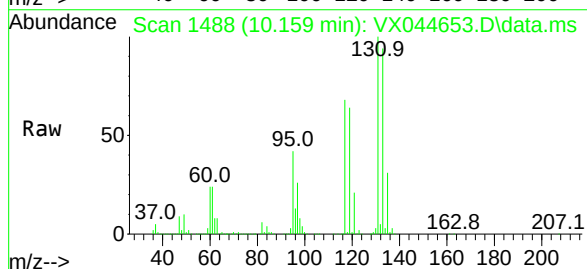
Manual Integrations
APPROVED

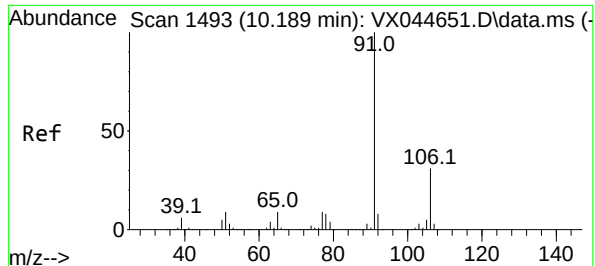
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 153.108 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:131 Resp: 276991
Ion Ratio Lower Upper
131 100
133 95.0 47.8 143.3
119 65.5 33.4 100.2





#67

Ethyl Benzene

Concen: 151.424 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 131524

Ion Ratio Lower Upper

91 100

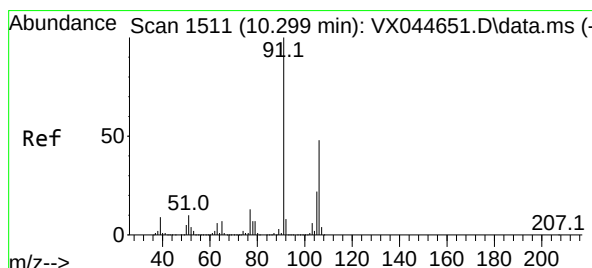
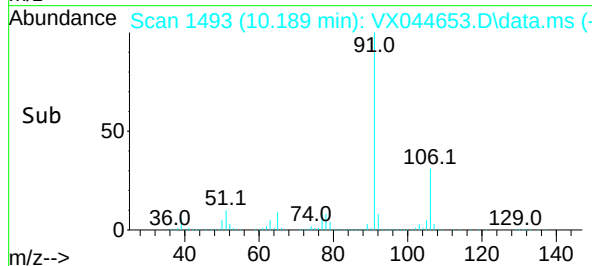
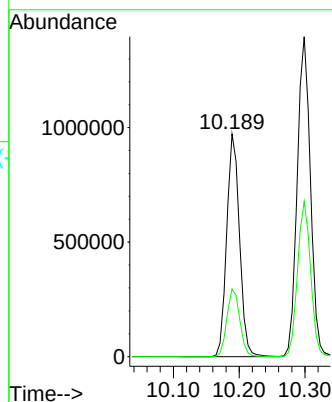
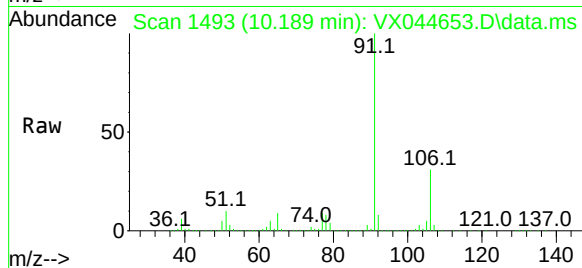
106 30.5 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#68

m/p-Xylenes

Concen: 292.054 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044653.D

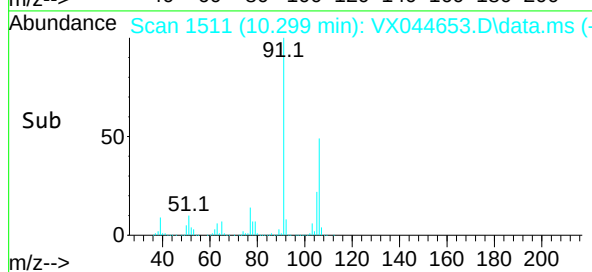
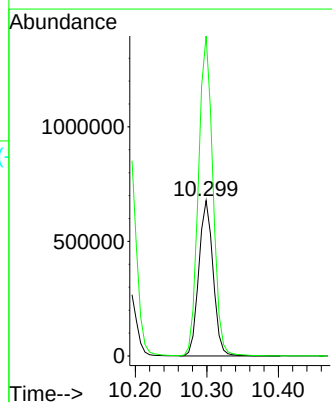
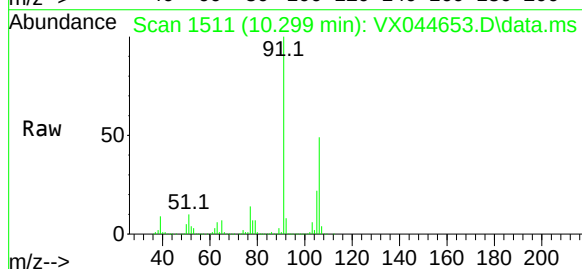
Acq: 15 Jan 2025 13:37

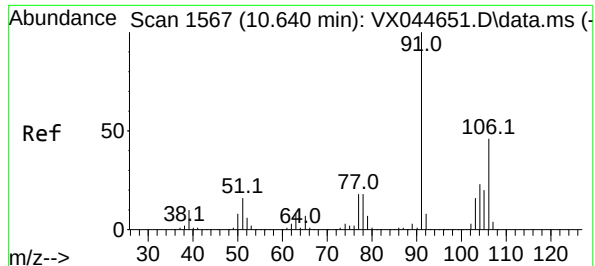
Tgt Ion:106 Resp: 941355

Ion Ratio Lower Upper

106 100

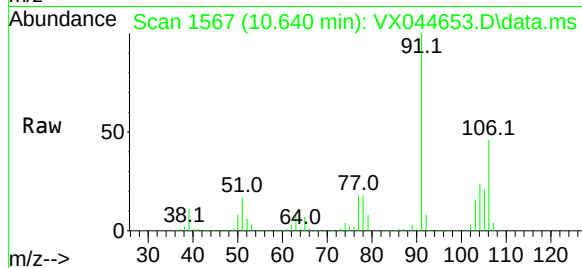
91 207.8 166.4 249.6





#69
o-Xylene
Concen: 145.386 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

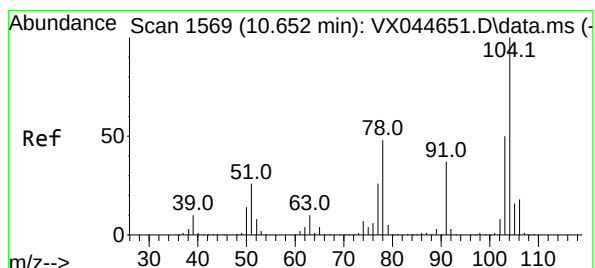
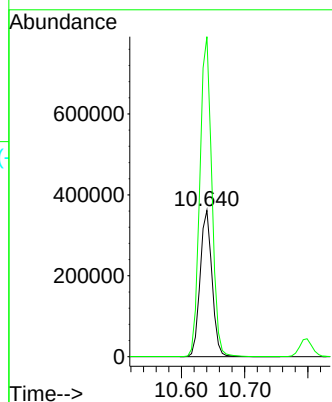
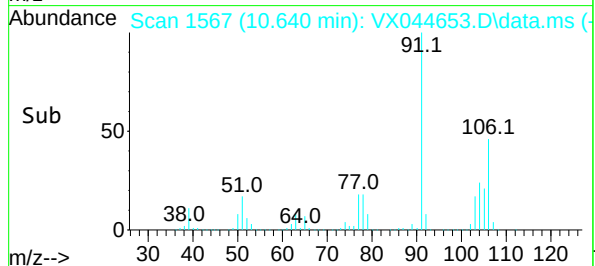
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:106 Resp: 47390
Ion Ratio Lower Upper
106 100
91 219.9 108.7 326.3

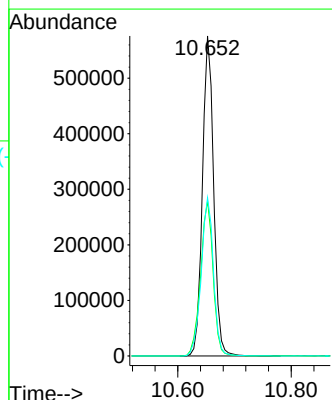
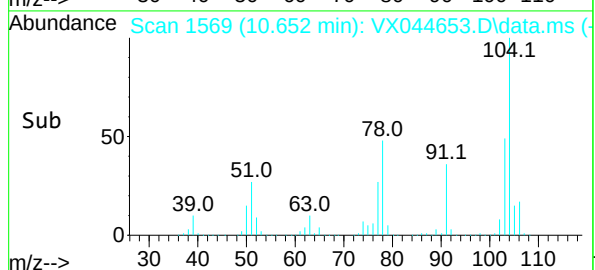
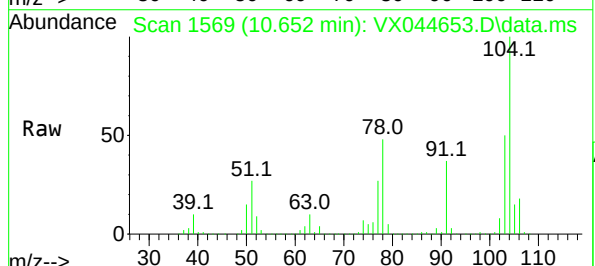
Manual Integrations
APPROVED

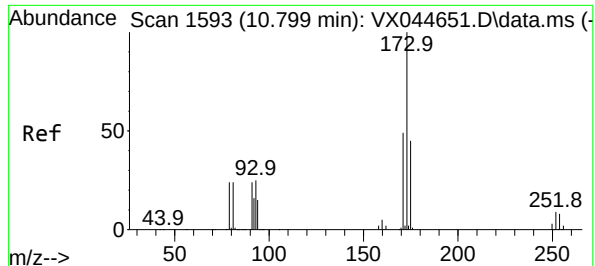
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#70
Styrene
Concen: 150.660 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

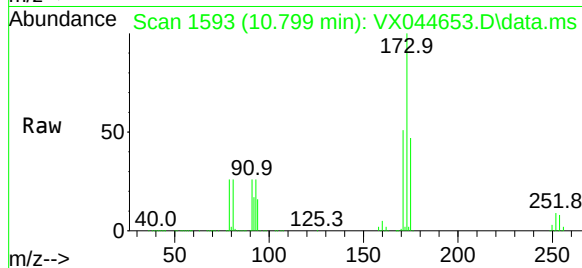
Tgt Ion:104 Resp: 792889
Ion Ratio Lower Upper
104 100
78 54.0 43.0 64.6
103 54.3 43.4 65.2





#71
Bromoform
Concen: 157.877 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

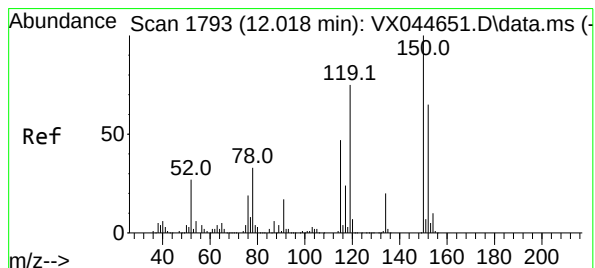
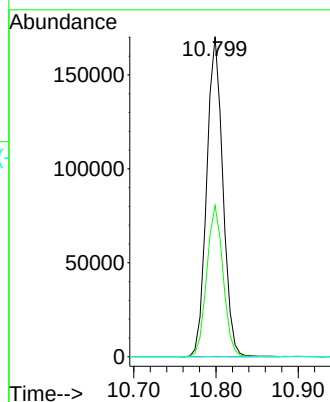
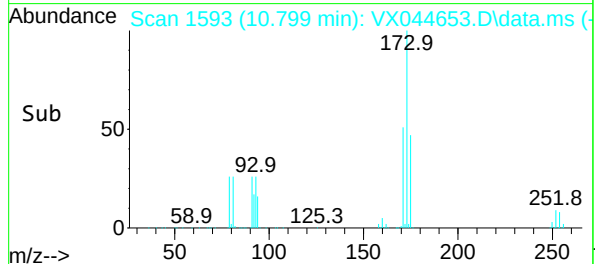
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:173 Resp: 232464
Ion Ratio Lower Upper
173 100
175 47.9 23.6 70.8
254 0.1 0.1 0.1

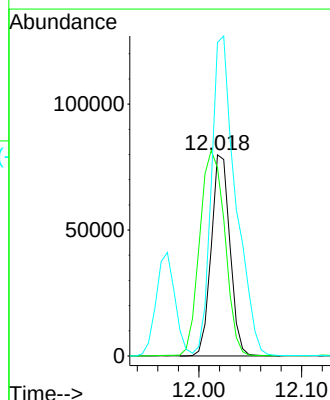
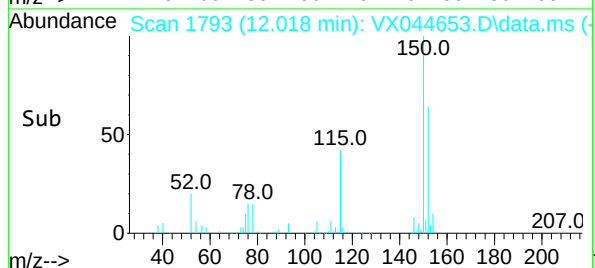
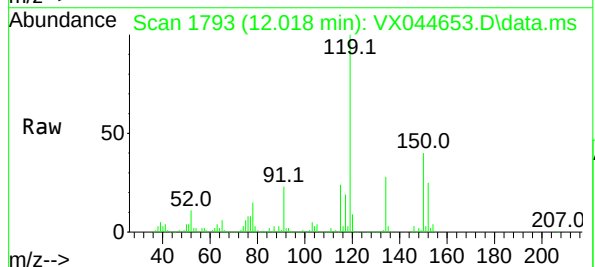
Manual Integrations
APPROVED

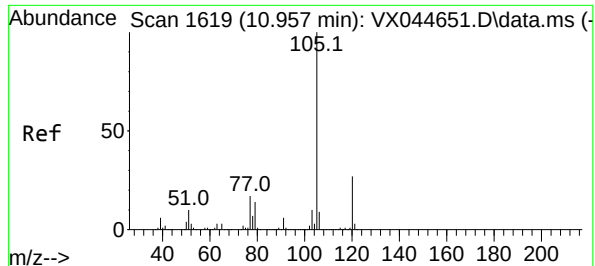
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

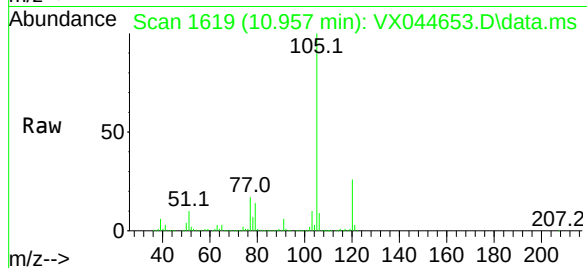
Tgt Ion:152 Resp: 100996
Ion Ratio Lower Upper
152 100
115 137.3 43.8 131.4#
150 206.7 0.0 347.8





#73
Isopropylbenzene
Concen: 146.343 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

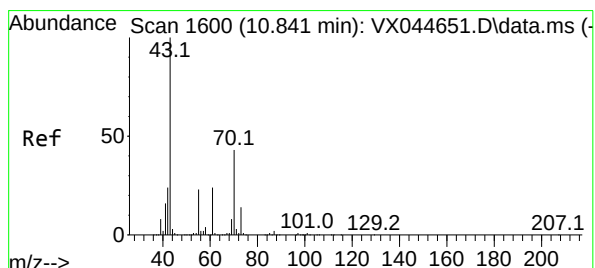
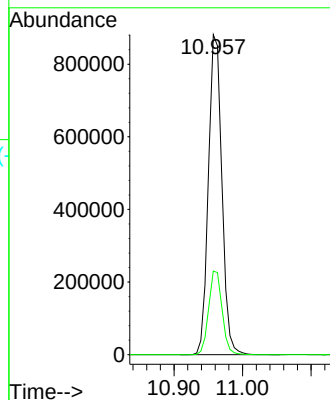
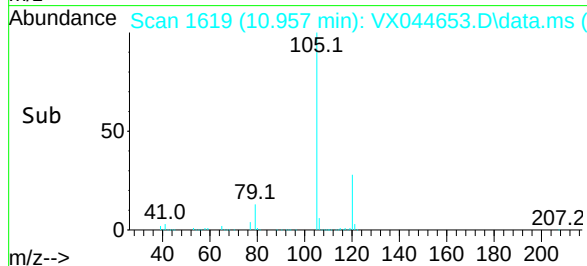
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 105 Resp: 120742
Ion Ratio Lower Upper
105 100
120 26.2 13.2 39.6

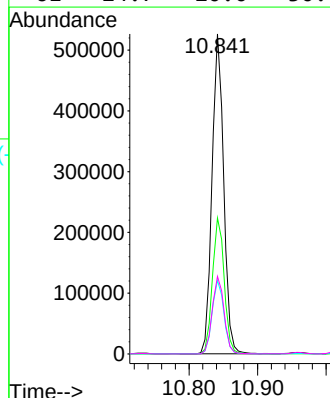
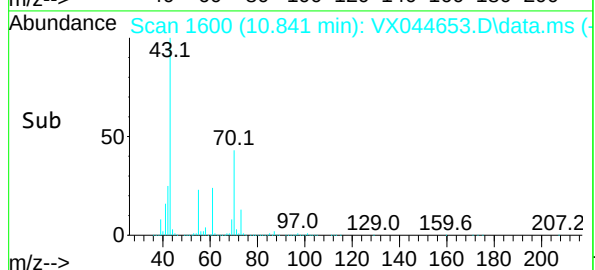
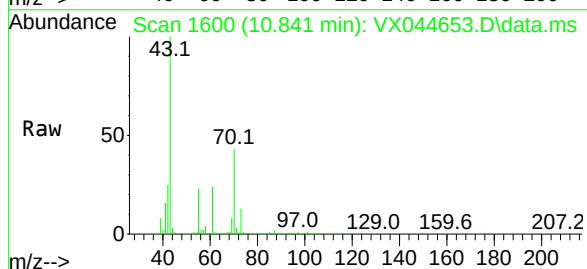
Manual Integrations
APPROVED

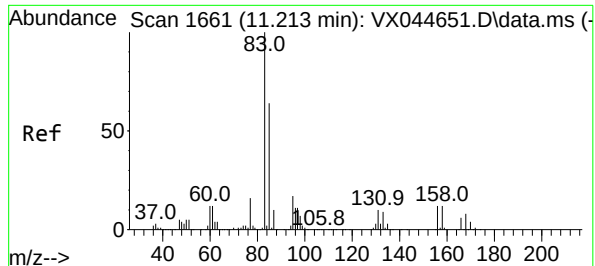
Reviewed By : John Carlone 01/15/2025
Supervised By : Semsettin Yesilyurt 01/16/2025



#74
N-ethyl acetate
Concen: 153.069 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 43 Resp: 622491
Ion Ratio Lower Upper
43 100
70 43.3 35.2 52.8
55 23.3 19.0 28.4
61 24.7 20.0 30.0





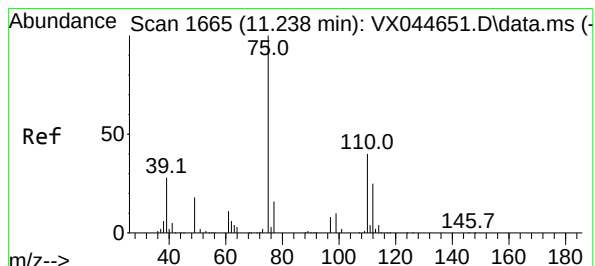
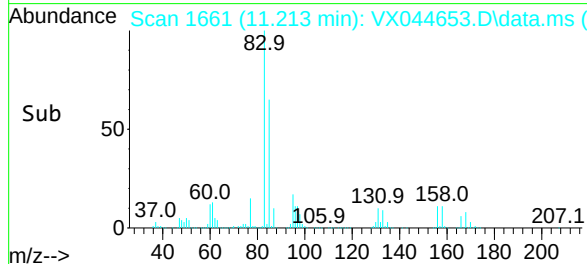
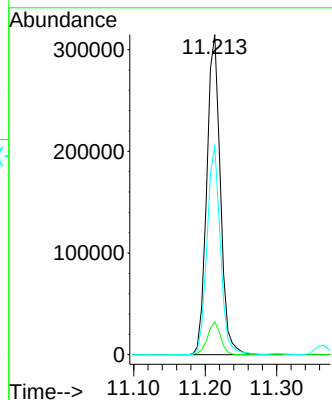
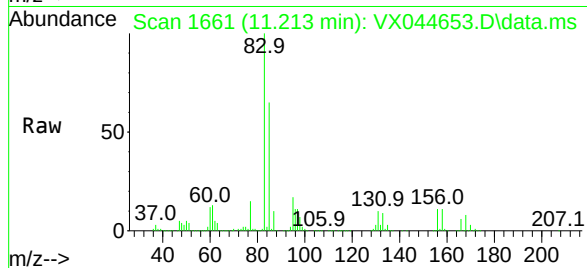
#75
1,1,2,2-Tetrachloroethane
Concen: 145.660 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 415068
Ion Ratio Lower Upper
83 100
131 10.0 5.0 14.9
85 64.5 32.0 96.2

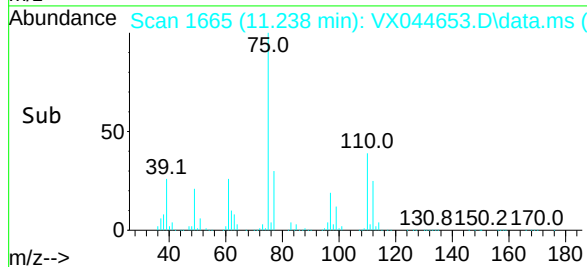
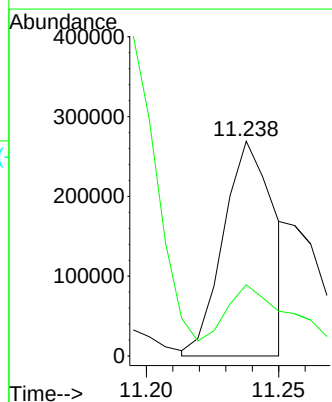
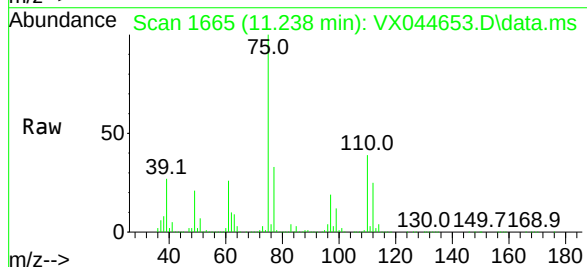
Manual Integrations
APPROVED

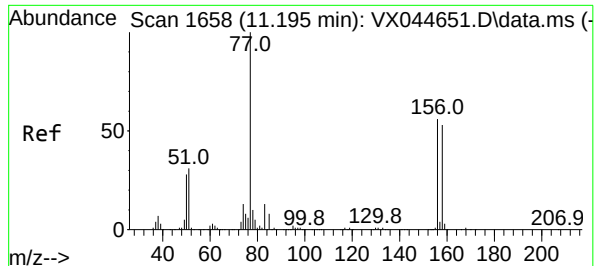
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#76
1,2,3-Trichloropropane
Concen: 149.343 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

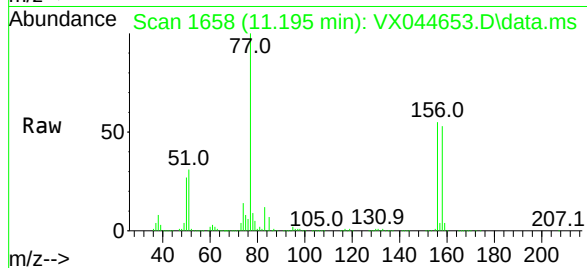
Tgt Ion: 75 Resp: 356222
Ion Ratio Lower Upper
75 100
77 45.8 23.4 70.2





#77
Bromobenzene
Concen: 149.641 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

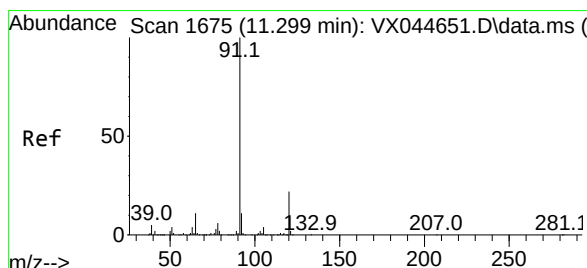
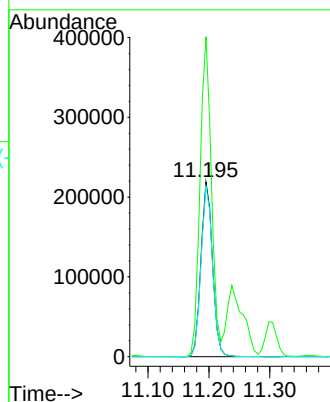
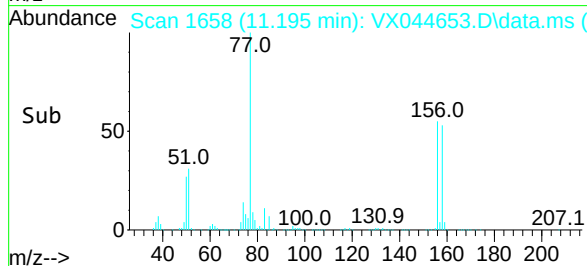
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:156 Resp: 288579
Ion Ratio Lower Upper
156 100
77 180.4 90.3 271.0
158 97.5 48.4 145.3

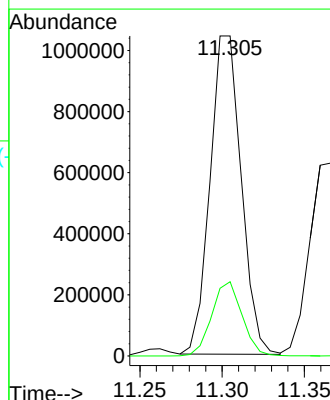
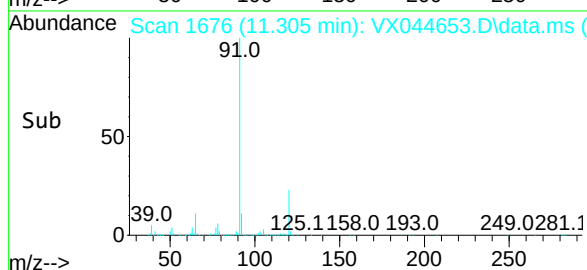
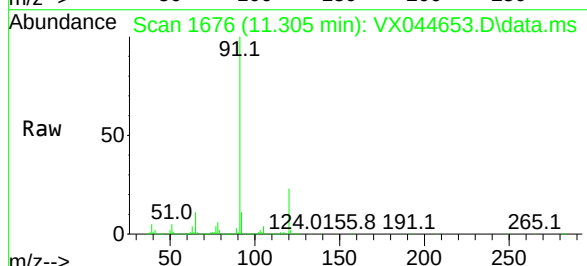
Manual Integrations
APPROVED

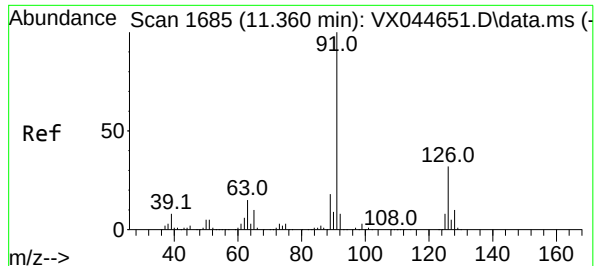
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#78
n-propylbenzene
Concen: 151.223 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 91 Resp: 1375979
Ion Ratio Lower Upper
91 100
120 22.7 11.4 34.1





#79

2-Chlorotoluene

Concen: 145.911 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 85761

Ion Ratio Lower Upper

91 100

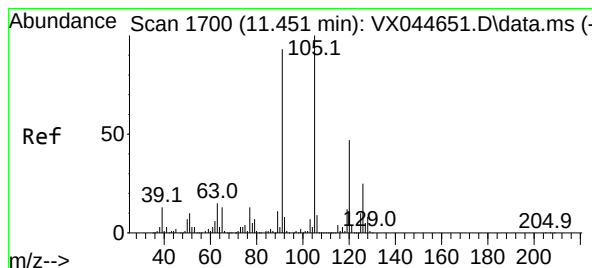
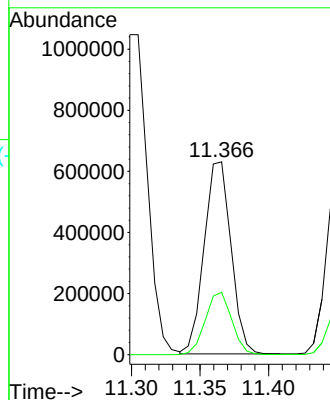
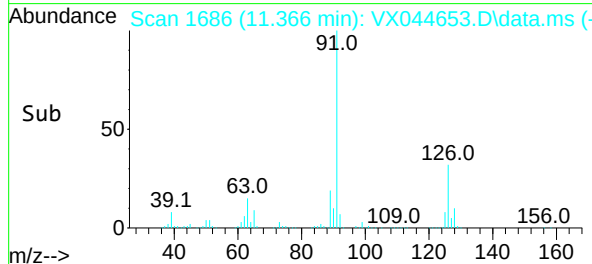
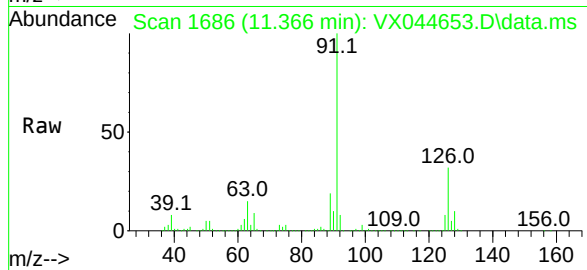
126 32.0 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#80

1,3,5-Trimethylbenzene

Concen: 142.870 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044653.D

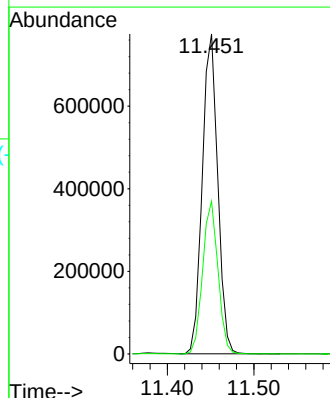
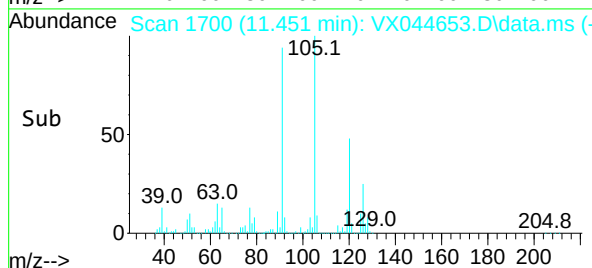
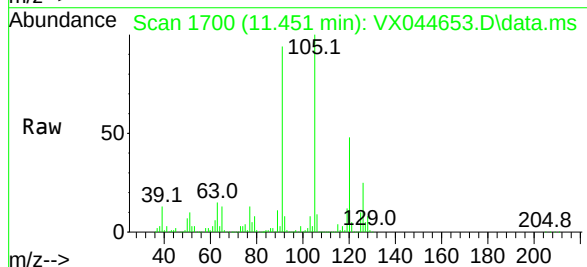
Acq: 15 Jan 2025 13:37

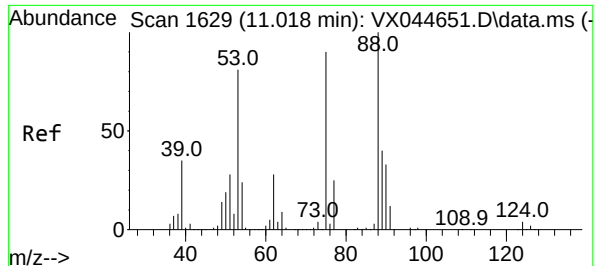
Tgt Ion:105 Resp: 959600

Ion Ratio Lower Upper

105 100

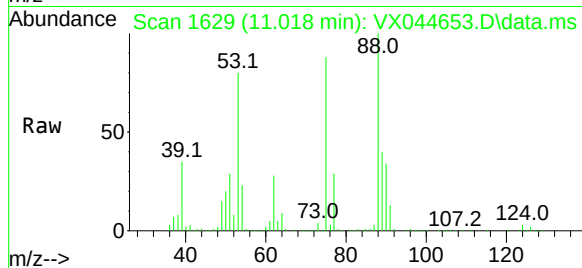
120 47.3 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 160.280 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

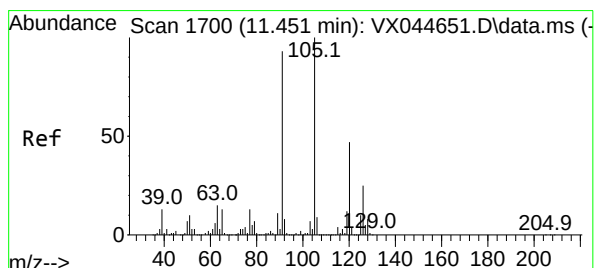
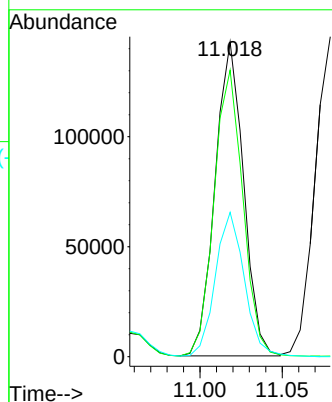
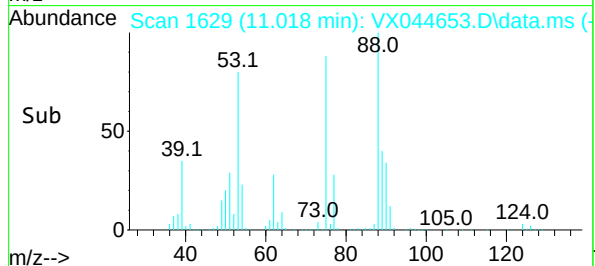
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 75 Resp: 171780
Ion Ratio Lower Upper
75 100
53 92.3 74.3 111.5
89 47.0 37.4 56.0

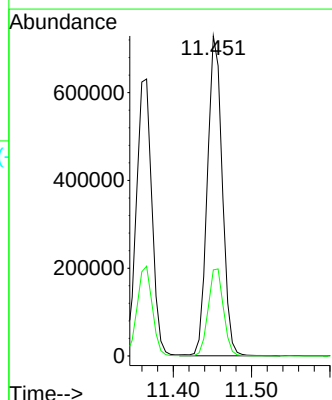
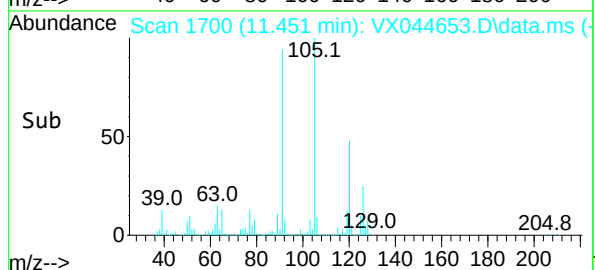
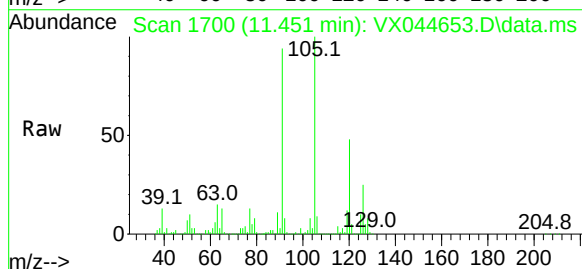
Manual Integrations
APPROVED

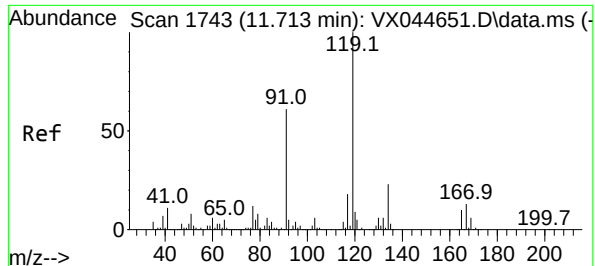
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#82
4-Chlorotoluene
Concen: 148.761 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 91 Resp: 957835
Ion Ratio Lower Upper
91 100
126 27.8 13.9 41.7





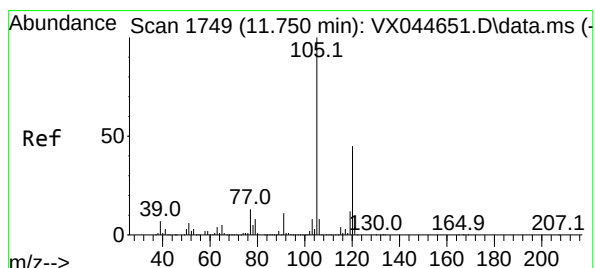
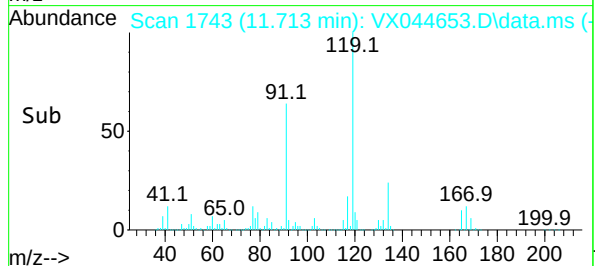
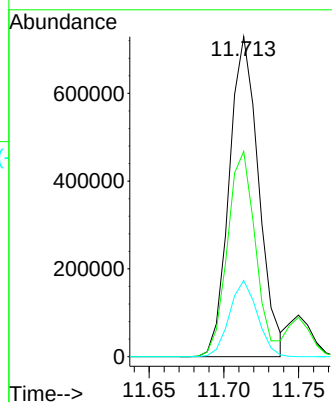
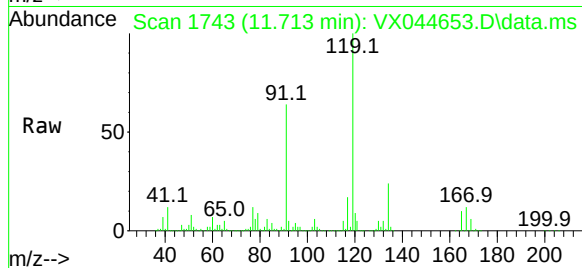
#83
tert-Butylbenzene
Concen: 142.356 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:119 Resp: 999760
Ion Ratio Lower Upper
119 100
91 61.4 30.0 90.0
134 22.5 11.2 33.5

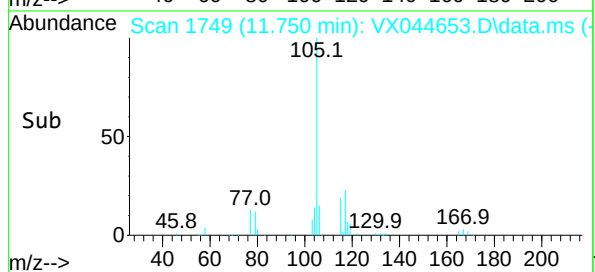
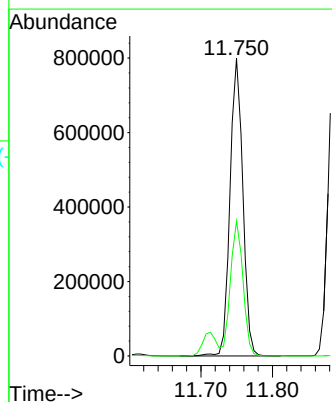
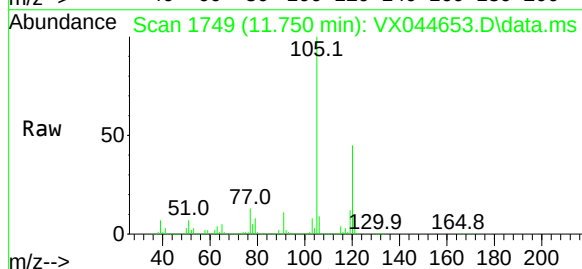
Manual Integrations
APPROVED

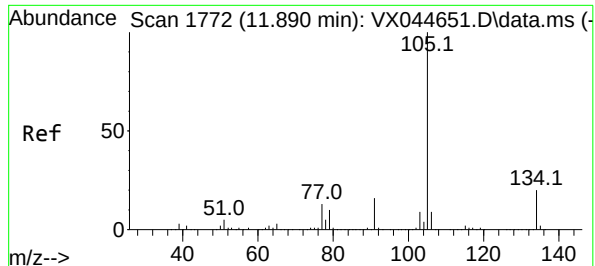
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#84
1,2,4-Trimethylbenzene
Concen: 145.281 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

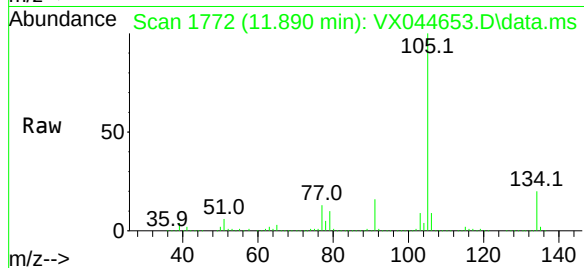
Tgt Ion:105 Resp: 991595
Ion Ratio Lower Upper
105 100
120 44.6 22.2 66.6





#85
sec-Butylbenzene
Concen: 148.543 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

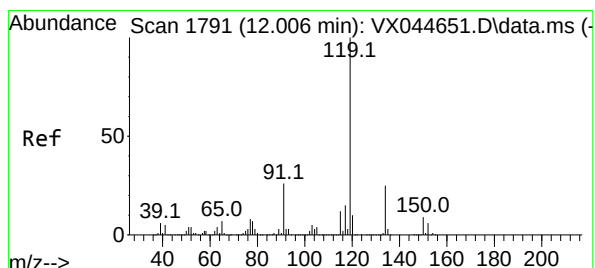
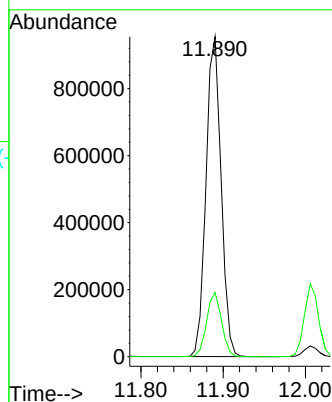
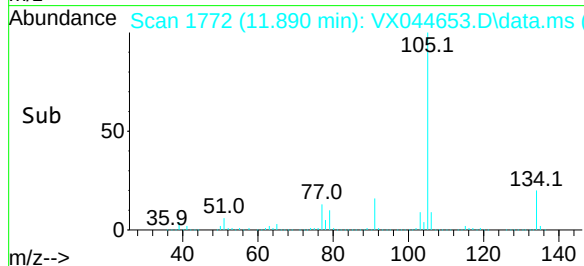
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:105 Resp: 1214662
Ion Ratio Lower Upper
105 100
134 19.9 9.8 29.5

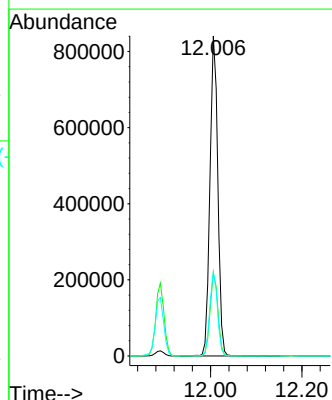
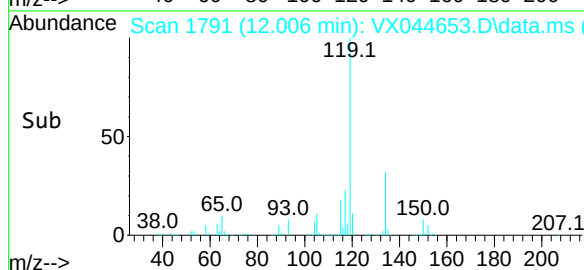
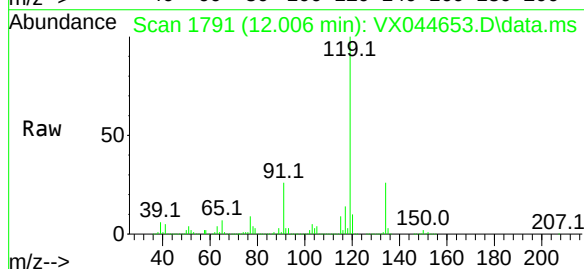
Manual Integrations
APPROVED

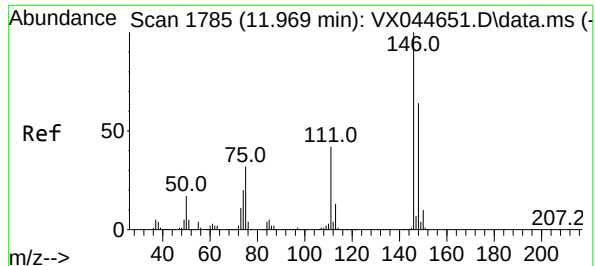
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#86
p-Isopropyltoluene
Concen: 148.902 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:119 Resp: 1000632
Ion Ratio Lower Upper
119 100
134 25.8 12.8 38.4
91 25.9 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 155.816 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 52111

Ion Ratio Lower Upper

146 100

111 43.7 21.9 65.7

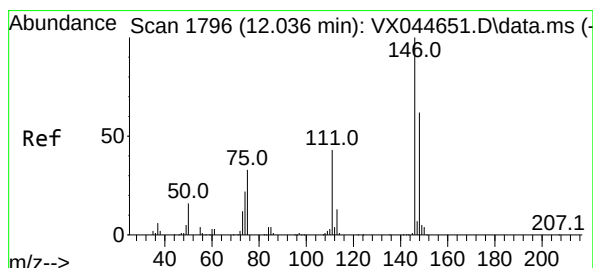
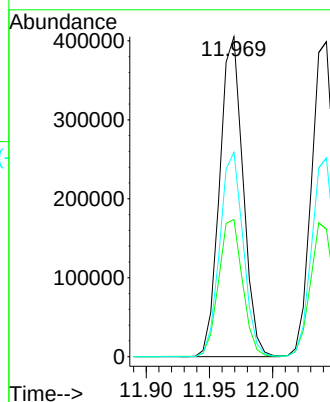
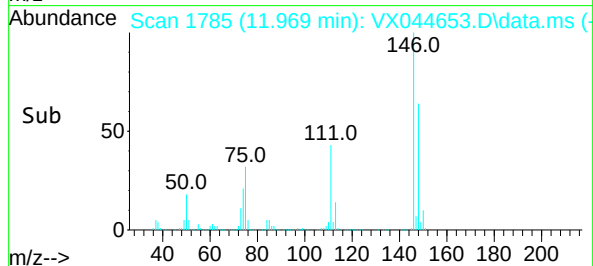
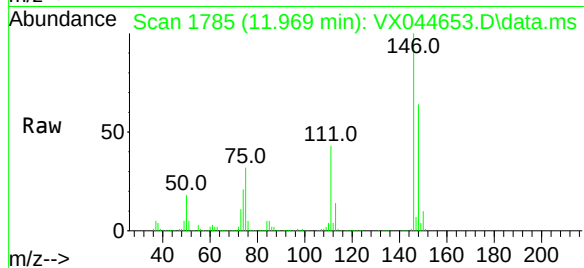
148 64.0 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#88

1,4-Dichlorobenzene

Concen: 155.532 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.006 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

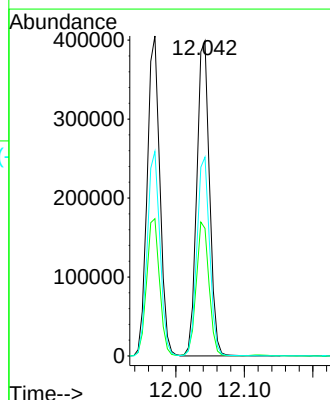
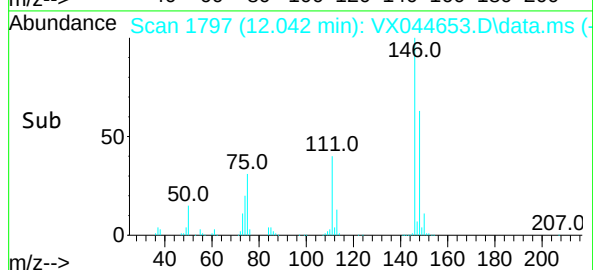
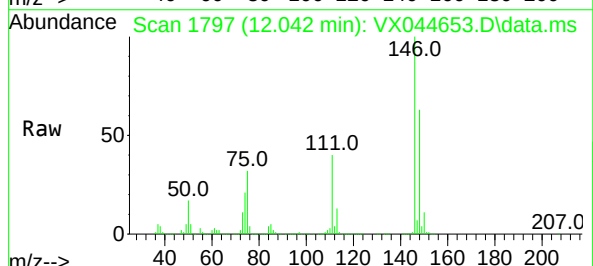
Tgt Ion:146 Resp: 516467

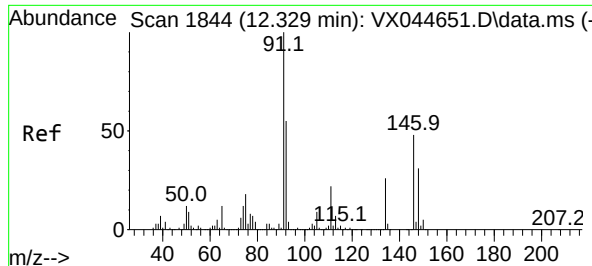
Ion Ratio Lower Upper

146 100

111 42.2 21.5 64.5

148 63.1 32.1 96.5





#89

n-Butylbenzene

Concen: 156.724 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044653.D

Acq: 15 Jan 2025 13:37

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 904589

Ion Ratio Lower Upper

91 100

92 55.2 27.4 82.0

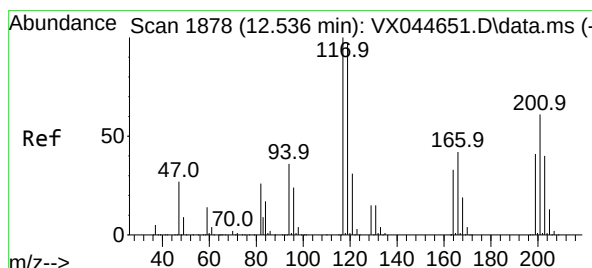
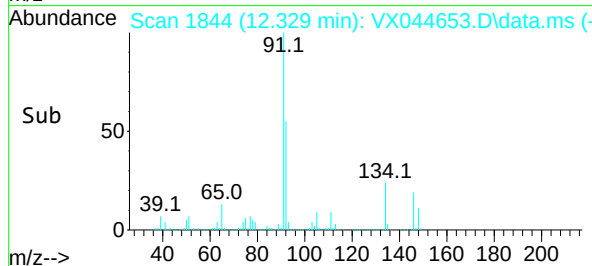
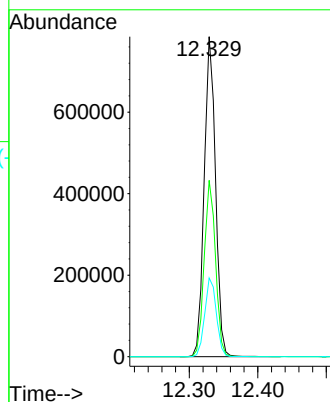
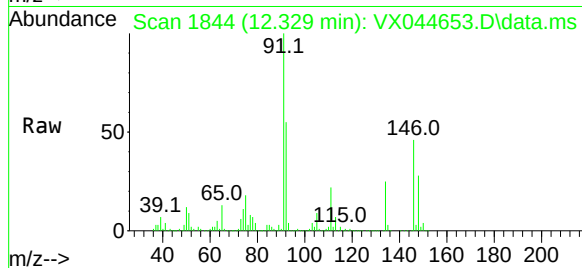
134 25.3 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 01/15/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#90

Hexachloroethane

Concen: 146.455 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044653.D

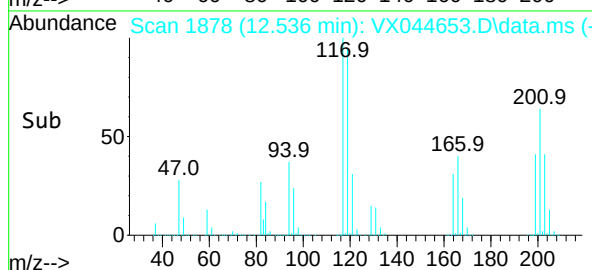
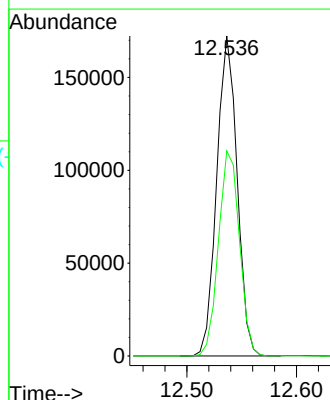
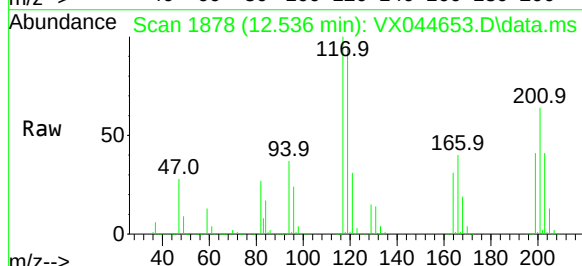
Acq: 15 Jan 2025 13:37

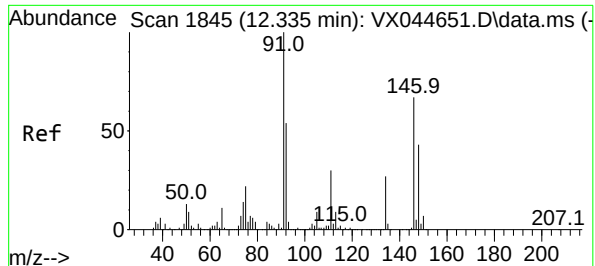
Tgt Ion:117 Resp: 222866

Ion Ratio Lower Upper

117 100

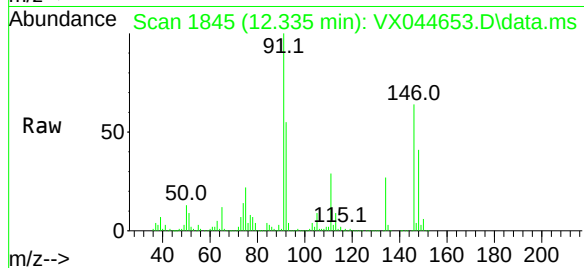
201 66.1 32.3 96.8





#91
1,2-Dichlorobenzene
Concen: 148.860 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

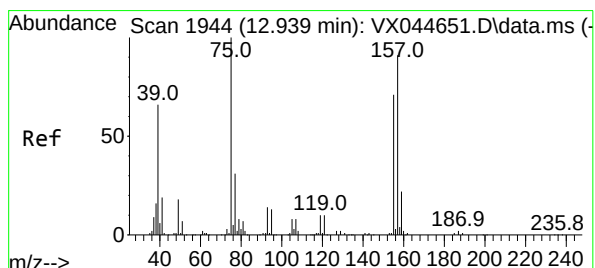
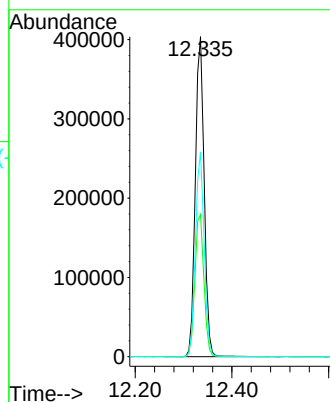
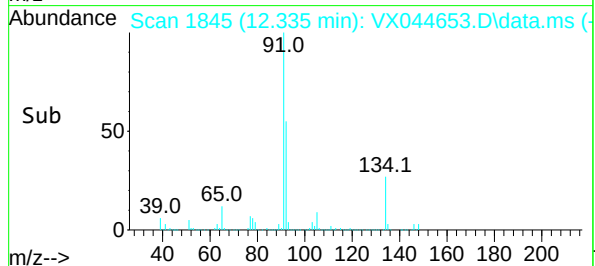
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



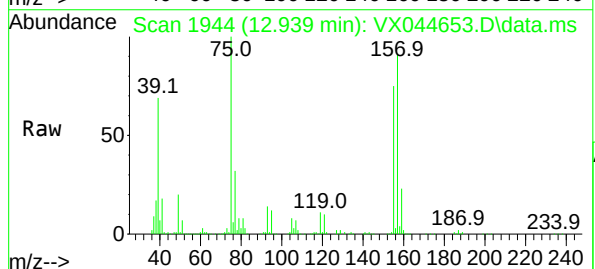
Tgt Ion:146 Resp: 511280
Ion Ratio Lower Upper
146 100
111 45.3 22.4 67.2
148 63.5 31.6 94.8

Manual Integrations
APPROVED

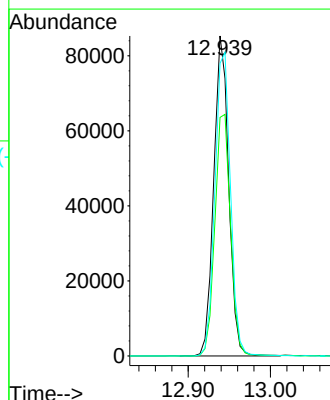
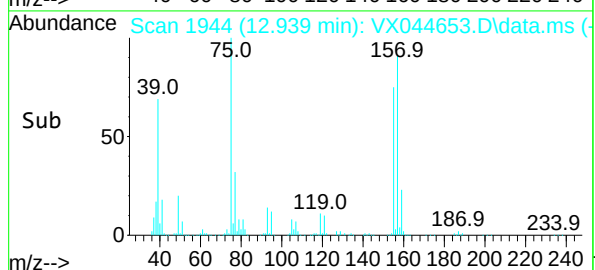
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

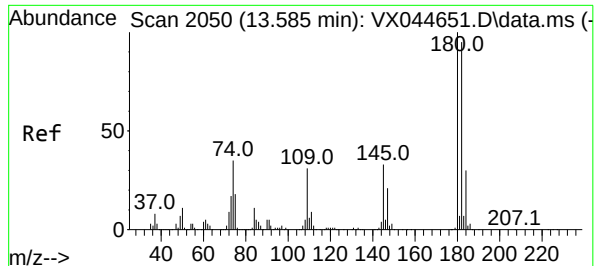


#92
1,2-Dibromo-3-Chloropropane
Concen: 154.709 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37



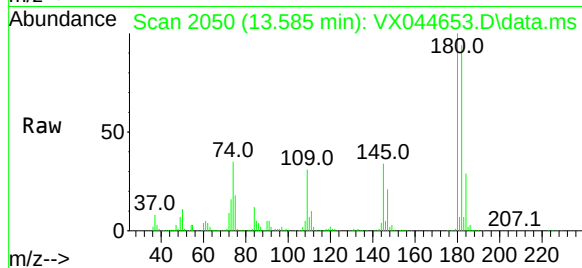
Tgt Ion: 75 Resp: 107815
Ion Ratio Lower Upper
75 100
155 79.1 39.0 116.9
157 98.6 49.9 149.7





#93
1,2,4-Trichlorobenzene
Concen: 171.582 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

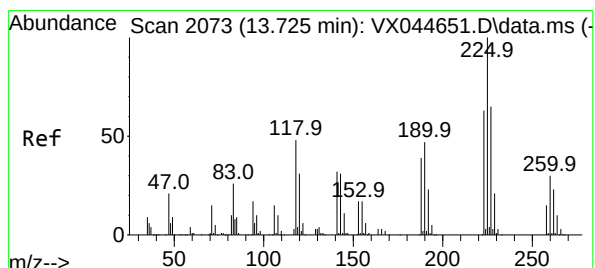
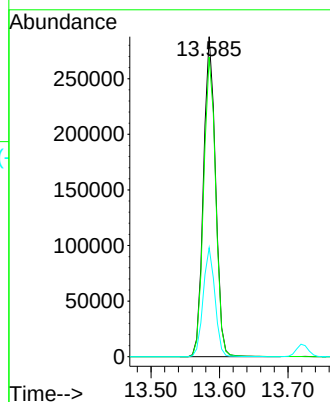
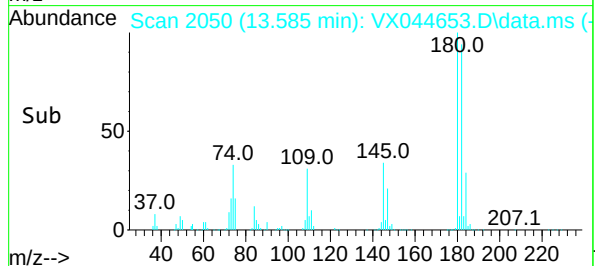
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



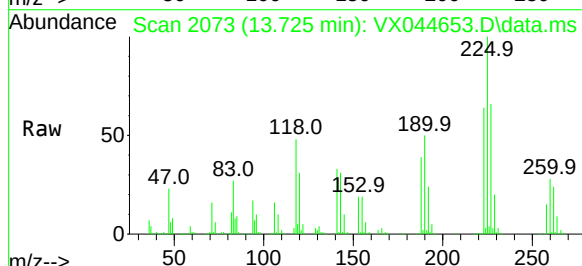
Tgt Ion:180 Resp: 352298
Ion Ratio Lower Upper
180 100
182 93.9 47.4 142.2
145 33.4 16.7 50.1

Manual Integrations
APPROVED

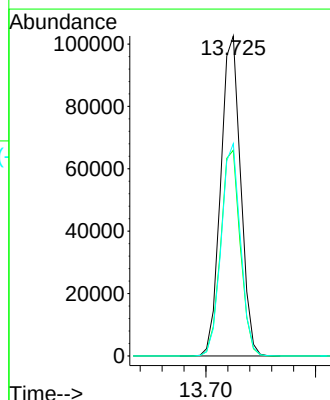
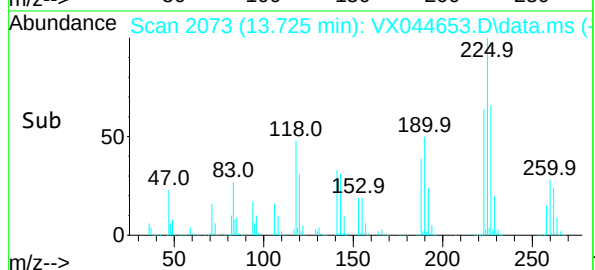
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

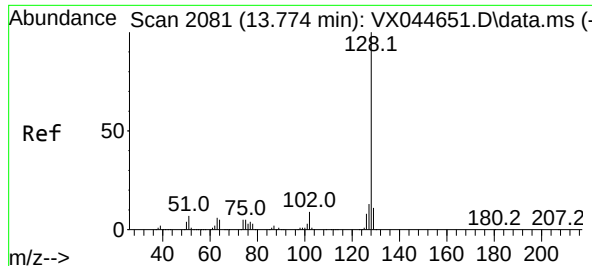


#94
Hexachlorobutadiene
Concen: 160.216 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37



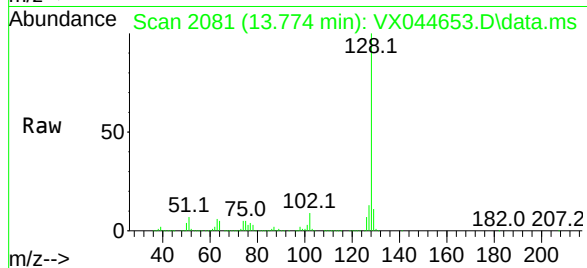
Tgt Ion:225 Resp: 129218
Ion Ratio Lower Upper
225 100
223 63.5 31.9 95.7
227 64.4 31.8 95.4





#95
Naphthalene
Concen: 162.361 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

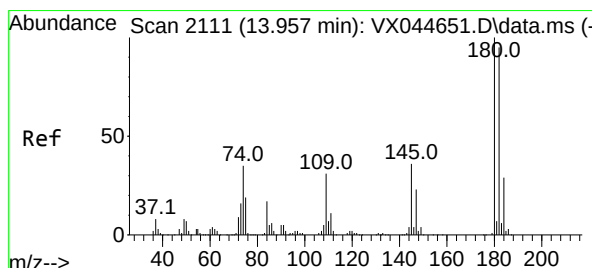
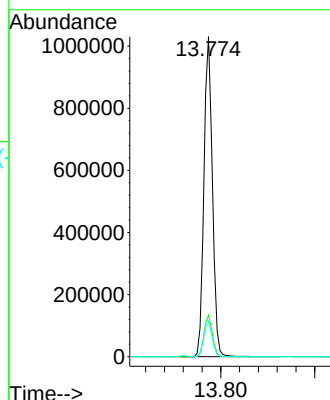
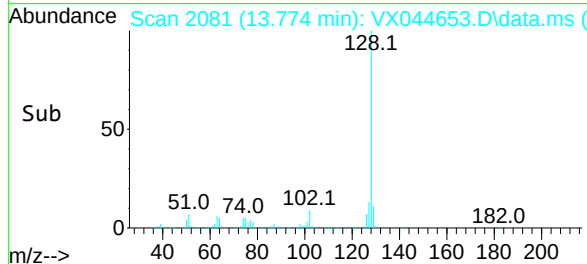
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:128 Resp: 1285749
Ion Ratio Lower Upper
128 100
127 12.8 10.3 15.5
129 10.9 8.7 13.1

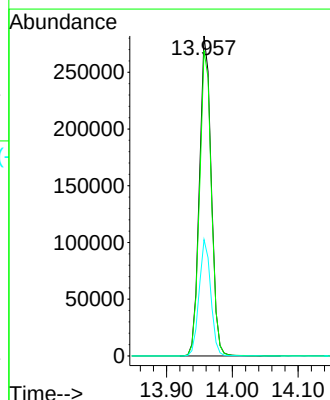
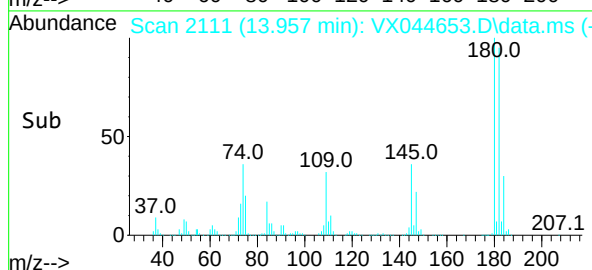
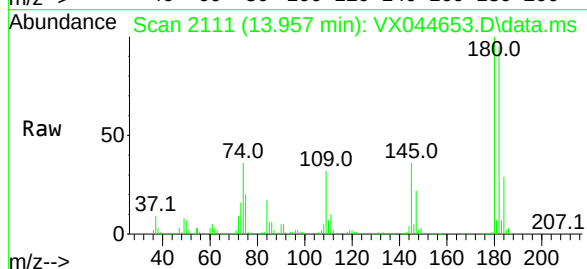
Manual Integrations
APPROVED

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 164.515 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:180 Resp: 350134
Ion Ratio Lower Upper
180 100
182 95.6 47.2 141.6
145 35.9 17.5 52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044655.D
 Acq On : 15 Jan 2025 15:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX011525

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:21:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.537	168	179405	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	323521	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	266872	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	115489	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	141798	52.363	ug/l	-0.01
Spiked Amount 50.000	Range 74 - 125		Recovery = 104.720%			
35) Dibromofluoromethane	5.373	113	110333	53.683	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.360%			
50) Toluene-d8	8.641	98	380624	53.113	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.220%			
62) 4-Bromofluorobenzene	11.079	95	140770	52.693	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.380%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	136518	56.549	ug/l	99
3) Chloromethane	1.300	50	124691	47.763	ug/l	99
4) Vinyl Chloride	1.374	62	128558	49.839	ug/l	98
5) Bromomethane	1.593	94	30815	50.031	ug/l	98
6) Chloroethane	1.660	64	23473	49.624	ug/l	98
7) Trichlorofluoromethane	1.861	101	147644	51.789	ug/l	98
8) Diethyl Ether	2.130	74	54624	47.479	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.312	101	112018	52.271	ug/l	100
10) Methyl Iodide	2.441	142	150245	51.350	ug/l	99
11) Tert butyl alcohol	2.983	59	150021m	248.503	ug/l	
12) 1,1-Dichloroethene	2.306	96	107643	51.243	ug/l	97
13) Acrolein	2.233	56	65602	230.919	ug/l	98
14) Allyl chloride	2.654	41	197270	48.232	ug/l	100
15) Acrylonitrile	3.062	53	307790	259.942	ug/l	99
16) Acetone	2.386	43	285777	266.735	ug/l	100
17) Carbon Disulfide	2.495	76	291339	50.827	ug/l	100
18) Methyl Acetate	2.703	43	177037	53.560	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	383394	50.389	ug/l	99
20) Methylene Chloride	2.782	84	119950	48.076	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	107127	48.846	ug/l	97
22) Diisopropyl ether	3.757	45	360169	50.659	ug/l	93
23) Vinyl Acetate	3.715	43	1583340	254.442	ug/l	99
24) 1,1-Dichloroethane	3.599	63	211436	50.150	ug/l	99
25) 2-Butanone	4.550	43	423083	265.596	ug/l	99
26) 2,2-Dichloropropane	4.458	77	198981	48.697	ug/l	98
27) cis-1,2-Dichloroethene	4.477	96	134711	48.831	ug/l	100
28) Bromochloromethane	4.885	49	97608	49.545	ug/l	99
29) Tetrahydrofuran	4.995	42	263635	256.578	ug/l	99
30) Chloroform	5.080	83	214034	50.304	ug/l	99
31) Cyclohexane	5.452	56	180309	52.878	ug/l	97
32) 1,1,1-Trichloroethane	5.367	97	191114	48.859	ug/l	99
36) 1,1-Dichloropropene	5.678	75	143891	50.294	ug/l	99
37) Ethyl Acetate	4.702	43	166128	54.526	ug/l	99
38) Carbon Tetrachloride	5.659	117	161829	50.287	ug/l	100
39) Methylcyclohexane	7.366	83	199470	52.520	ug/l	98
40) Benzene	6.025	78	448684	50.610	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044655.D
 Acq On : 15 Jan 2025 15:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVX011525

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:21:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	91151	51.342	ug/l	100
42) 1,2-Dichloroethane	6.074	62	164707	50.902	ug/l	100
43) Isopropyl Acetate	6.330	43	285121	50.871	ug/l	100
44) Trichloroethene	7.116	130	110588	51.887	ug/l	99
45) 1,2-Dichloropropane	7.421	63	113836	51.011	ug/l	97
46) Dibromomethane	7.574	93	84838	49.939	ug/l	100
47) Bromodichloromethane	7.811	83	174297	50.029	ug/l	99
48) Methyl methacrylate	7.683	41	137603	52.890	ug/l	99
49) 1,4-Dioxane	7.665	88	53851	992.095	ug/l	97
51) 4-Methyl-2-Pentanone	8.567	43	779855	251.778	ug/l	100
52) Toluene	8.714	92	271071	49.955	ug/l	98
53) t-1,3-Dichloropropene	8.970	75	184653	51.300	ug/l	99
54) cis-1,3-Dichloropropene	8.360	75	199240	51.049	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	109957	50.085	ug/l	99
56) Ethyl methacrylate	9.110	69	190986	50.595	ug/l	99
57) 1,3-Dichloropropane	9.305	76	187407	50.129	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.232	63	466737	251.852	ug/l	100
59) 2-Hexanone	9.427	43	576549	253.010	ug/l	100
60) Dibromochloromethane	9.518	129	128727	49.957	ug/l	100
61) 1,2-Dibromoethane	9.604	107	114330	49.693	ug/l	100
64) Tetrachloroethene	9.269	164	89460	53.384	ug/l	97
65) Chlorobenzene	10.073	112	287202	50.667	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	105329	51.129	ug/l	99
67) Ethyl Benzene	10.189	91	511560	51.721	ug/l	98
68) m/p-Xylenes	10.299	106	376743	102.645	ug/l	100
69) o-Xylene	10.640	106	186995	50.378	ug/l	99
70) Styrene	10.652	104	308018	51.398	ug/l	100
71) Bromoform	10.799	173	86512	51.597	ug/l #	99
73) Isopropylbenzene	10.957	105	474051	50.246	ug/l	100
74) N-amyl acetate	10.841	43	233338	50.177	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	159673	49.002	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	140149m	50.004	ug/l	
77) Bromobenzene	11.195	156	109171	49.506	ug/l	99
78) n-propylbenzene	11.299	91	538048	51.712	ug/l	100
79) 2-Chlorotoluene	11.360	91	333891	49.678	ug/l	100
80) 1,3,5-Trimethylbenzene	11.445	105	382880	49.852	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	63708	51.981	ug/l	100
82) 4-Chlorotoluene	11.451	91	373655	50.750	ug/l	100
83) tert-Butylbenzene	11.713	119	397191	49.459	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	388010	49.714	ug/l	100
85) sec-Butylbenzene	11.890	105	477595	51.076	ug/l	100
86) p-Isopropyltoluene	12.006	119	392123	51.028	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	196862	51.476	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	193343	50.011	ug/l	99
89) n-Butylbenzene	12.329	91	350704	53.136	ug/l	99
90) Hexachloroethane	12.536	117	84427	48.518	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	194138	49.430	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	39583	49.672	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	125286	53.362	ug/l	99
94) Hexachlorobutadiene	13.725	225	48702	52.807	ug/l	99
95) Naphthalene	13.774	128	479024	52.899	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	128038	52.611	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

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

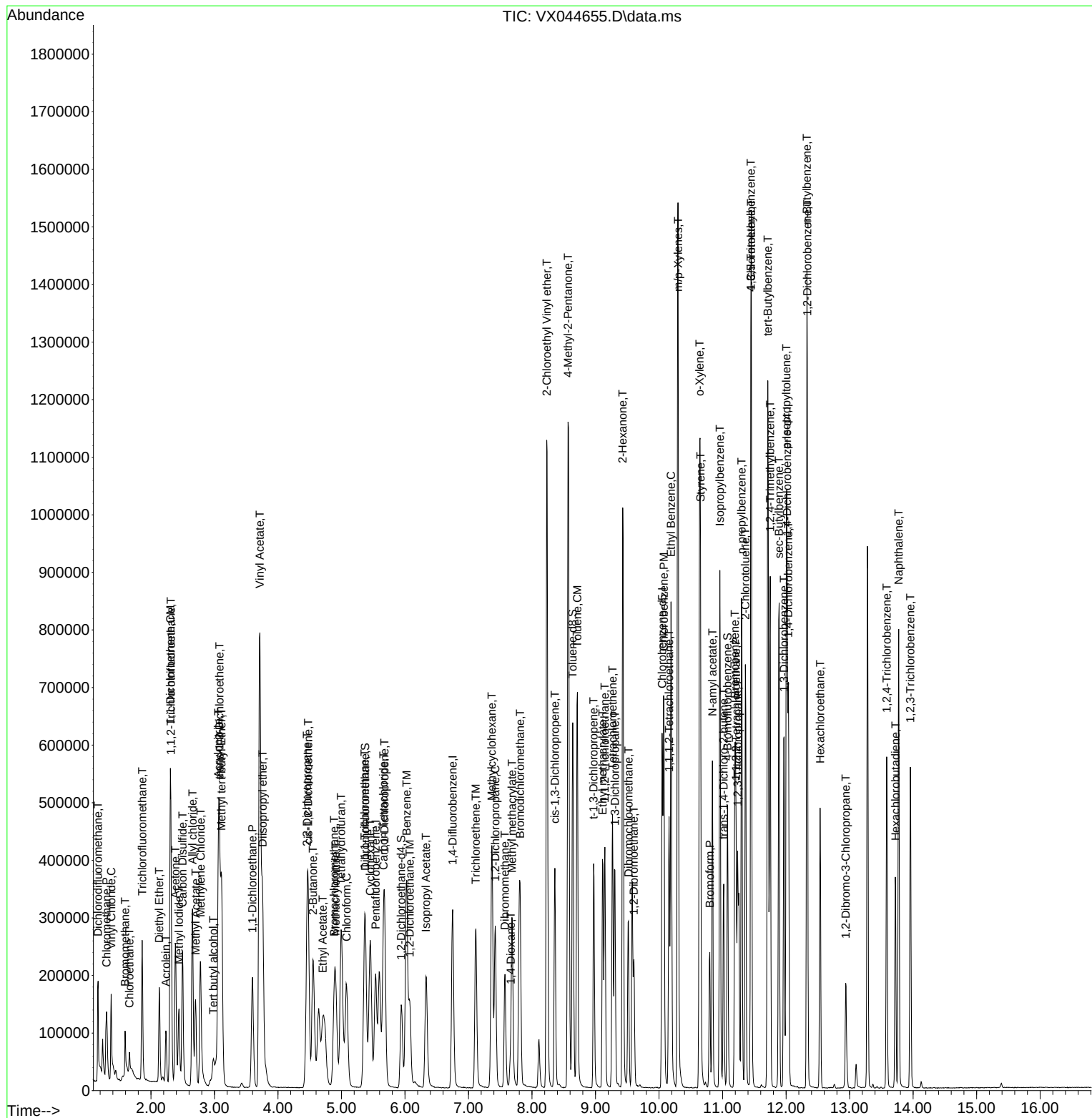
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\  
Data File : VX044655.D  
Acq On    : 15 Jan 2025   15:15  
Operator  : JC/MD  
Sample    : VSTDICV050  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 10   Sample Multiplier: 1
```

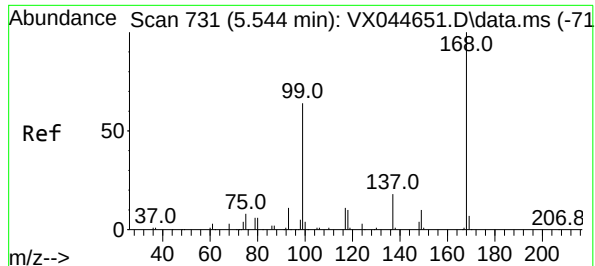
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

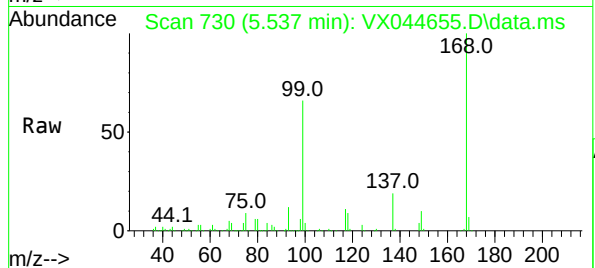
Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

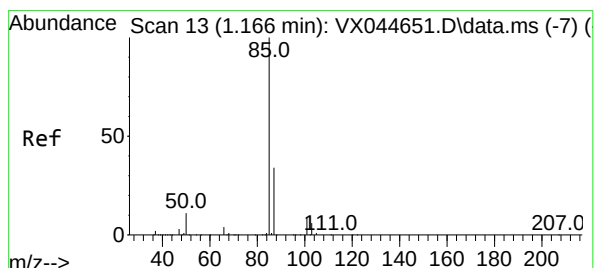
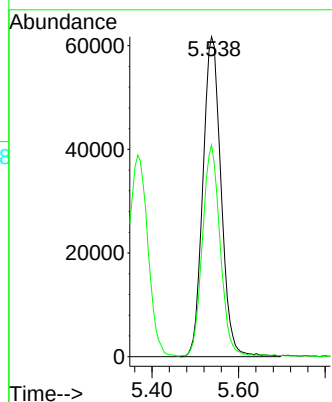
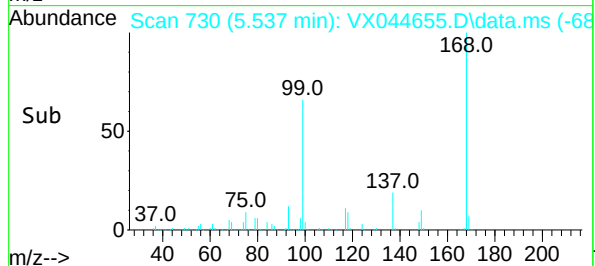
Instrument :
MSVOA_X
ClientSampleId :
ICVX011525



Tgt Ion:168 Resp: 17940
Ion Ratio Lower Upper
168 100
99 65.9 51.1 76.7

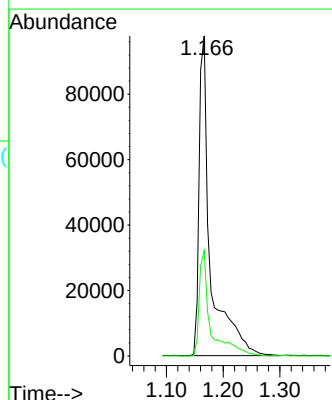
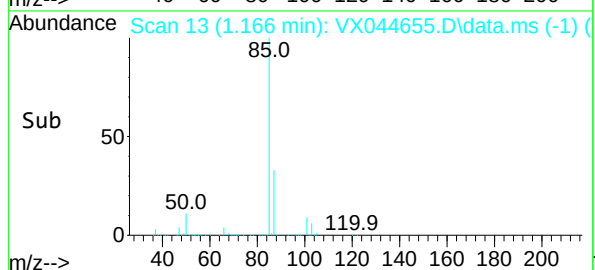
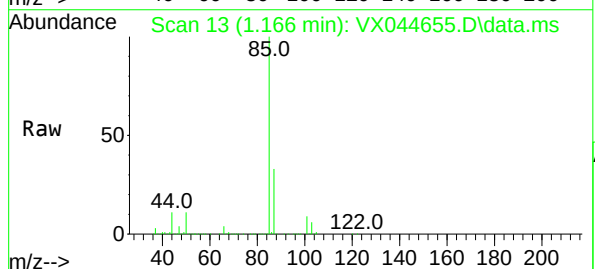
Manual Integrations
APPROVED

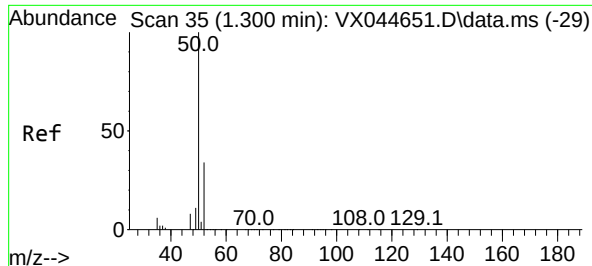
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#2
Dichlorodifluoromethane
Concen: 56.549 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

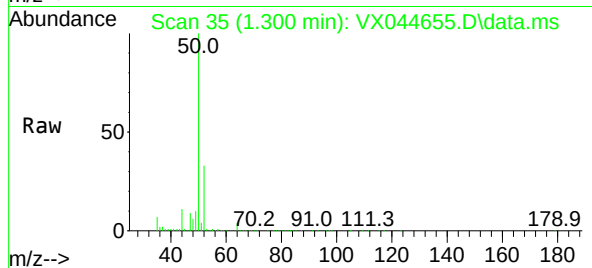
Tgt Ion: 85 Resp: 136518
Ion Ratio Lower Upper
85 100
87 33.0 16.8 50.4





#3
Chloromethane
Concen: 47.763 ug/l
RT: 1.300 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

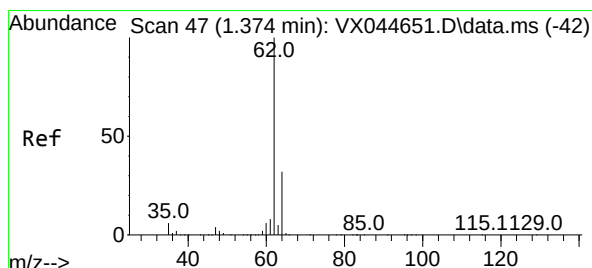
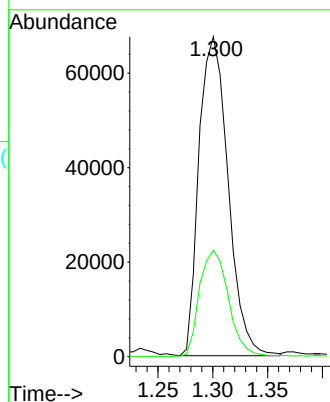
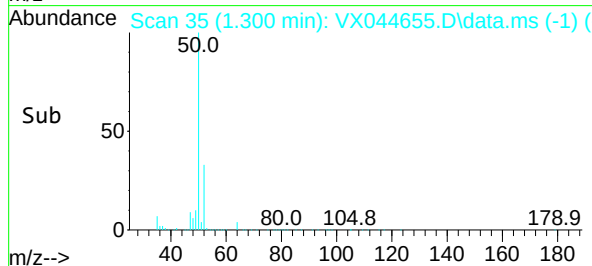
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion: 50 Resp: 12469
Ion Ratio Lower Upper
50 100
52 33.3 27.0 40.4

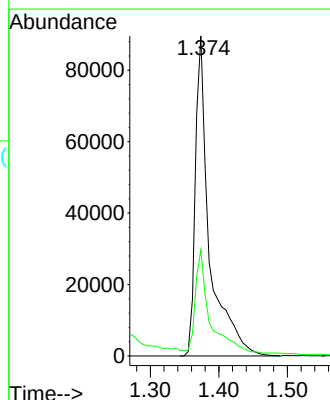
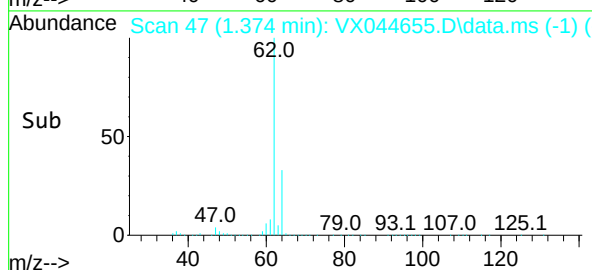
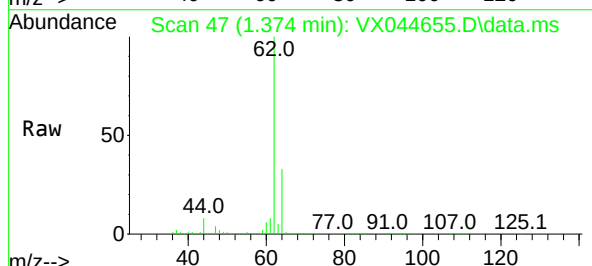
Manual Integrations
APPROVED

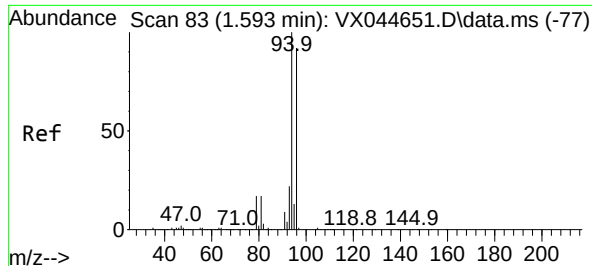
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#4
Vinyl Chloride
Concen: 49.839 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

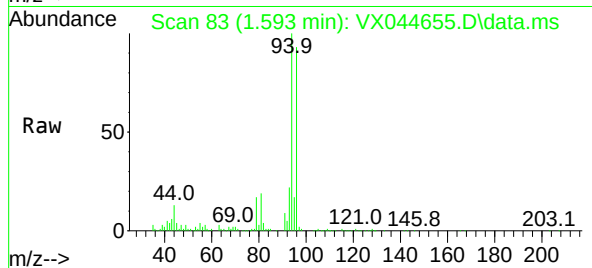
Tgt Ion: 62 Resp: 128558
Ion Ratio Lower Upper
62 100
64 32.2 26.6 39.8





#5
Bromomethane
Concen: 50.031 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

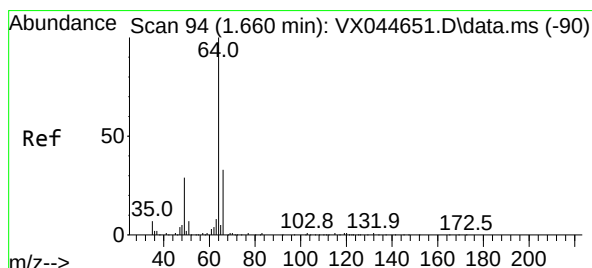
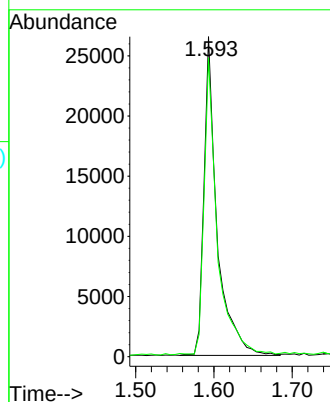
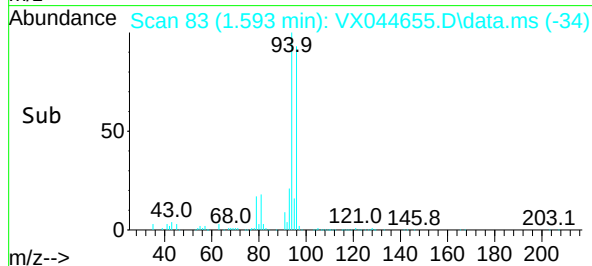
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion: 94 Resp: 3081
Ion Ratio Lower Upper
94 100
96 92.8 72.8 109.2

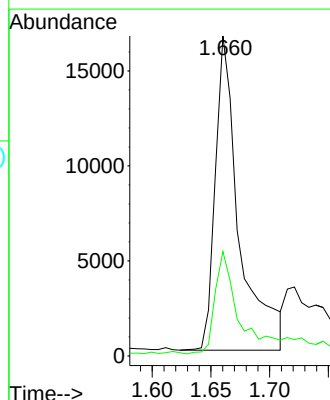
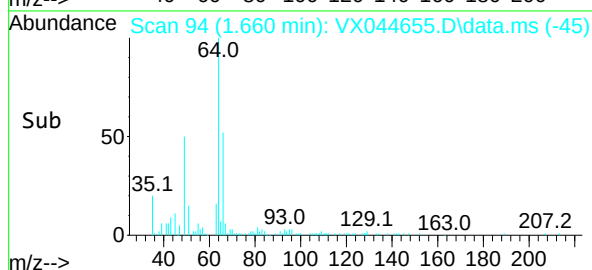
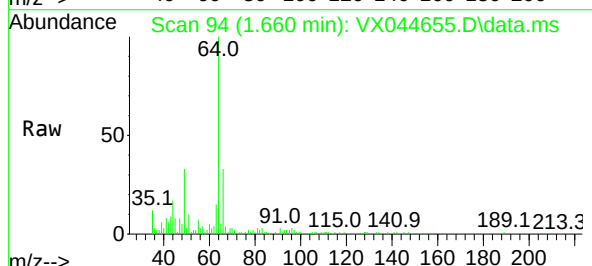
Manual Integrations
APPROVED

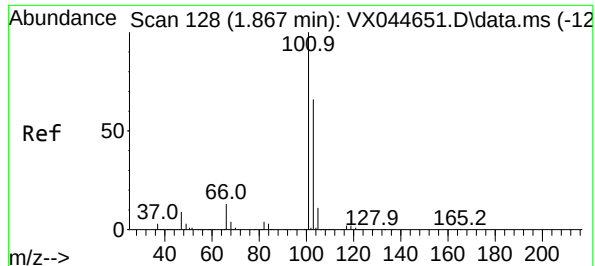
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#6
Chloroethane
Concen: 49.624 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 64 Resp: 23473
Ion Ratio Lower Upper
64 100
66 32.2 26.6 39.8





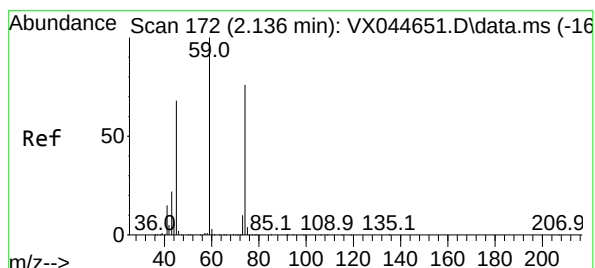
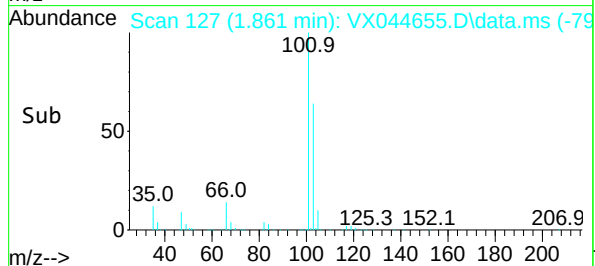
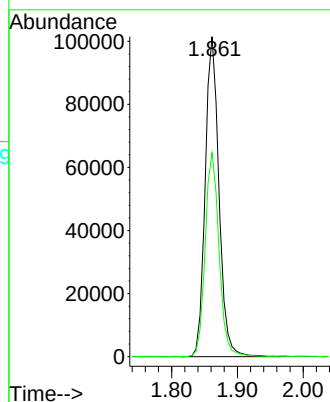
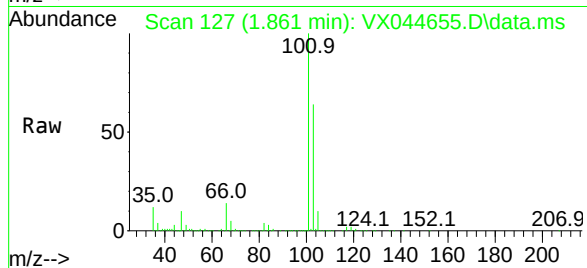
#7
Trichlorofluoromethane
Concen: 51.789 ug/l
RT: 1.861 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Instrument :
MSVOA_X
ClientSampleId :
ICVX011525

Tgt Ion:101 Resp: 14764
Ion Ratio Lower Upper
101 100
103 63.7 52.5 78.7

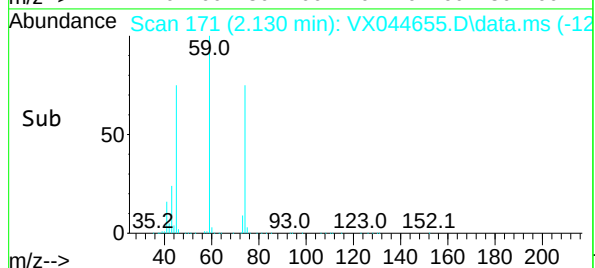
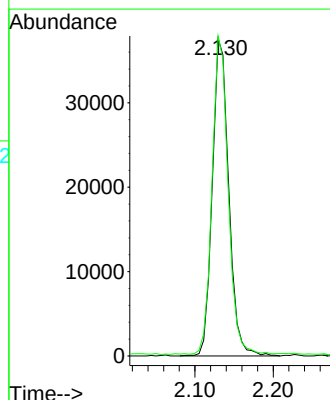
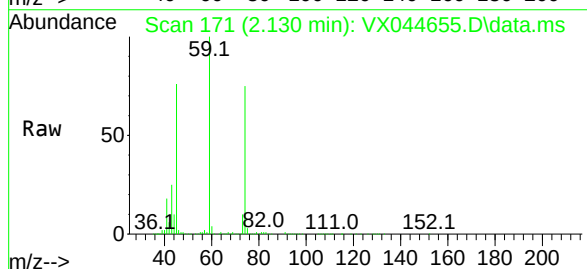
Manual Integrations
APPROVED

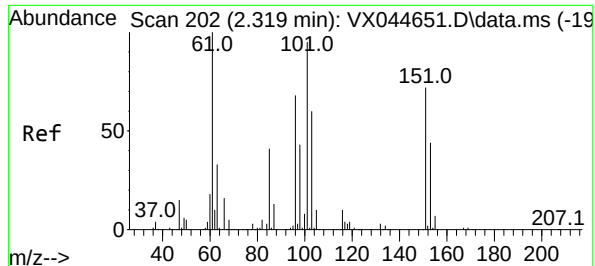
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#8
Diethyl Ether
Concen: 47.479 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

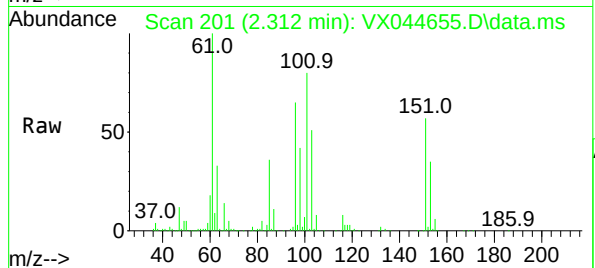
Tgt Ion: 74 Resp: 54624
Ion Ratio Lower Upper
74 100
45 98.4 47.1 141.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.271 ug/l
RT: 2.312 min Scan# 202
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

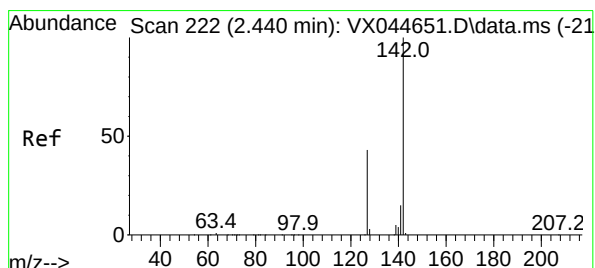
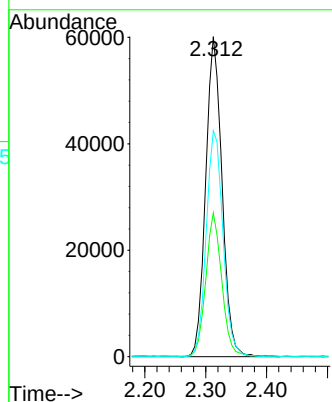
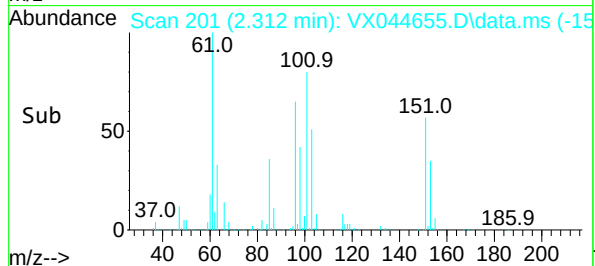
Instrument :
MSVOA_X
ClientSampleId :
ICVX011525



Tgt Ion:101 Resp: 112018
Ion Ratio Lower Upper
101 100
85 43.6 35.3 52.9
151 72.6 58.2 87.4

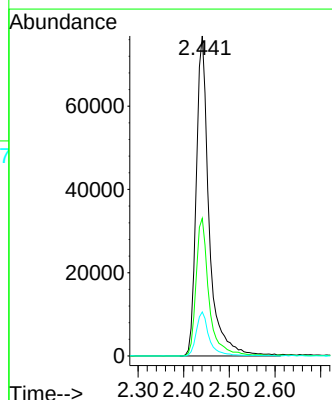
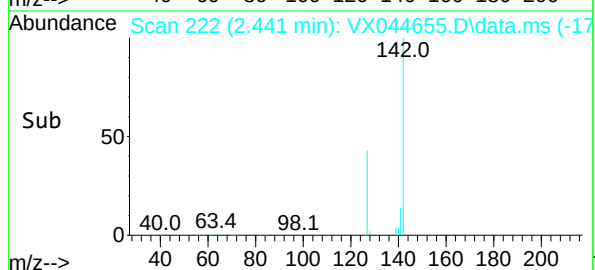
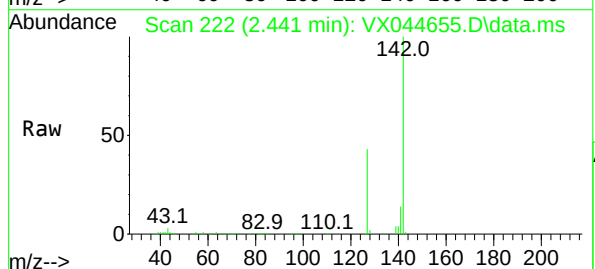
Manual Integrations
APPROVED

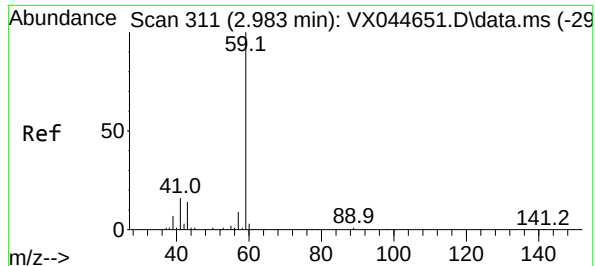
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#10
Methyl Iodide
Concen: 51.350 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:142 Resp: 150245
Ion Ratio Lower Upper
142 100
127 43.6 35.0 52.4
141 13.8 11.7 17.5





#11

Tert butyl alcohol

Concen: 248.503 ug/l m

RT: 2.983 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 59 Resp: 15002

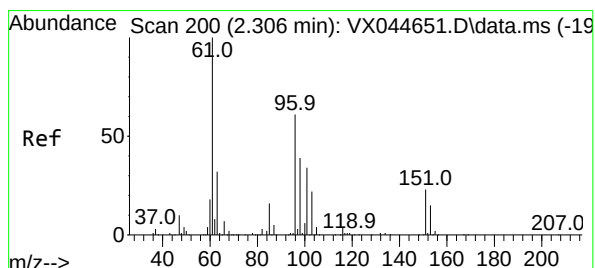
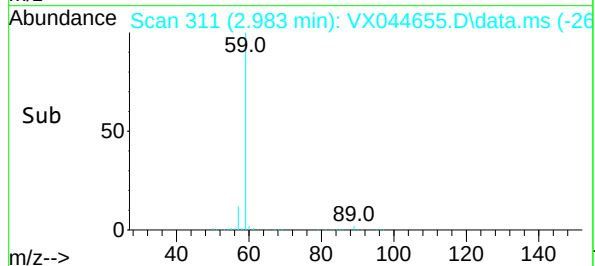
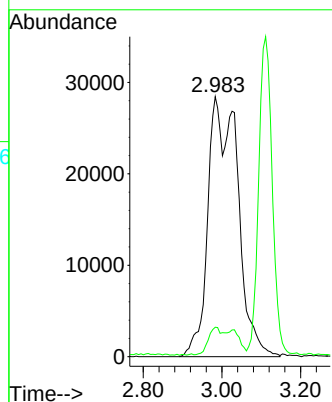
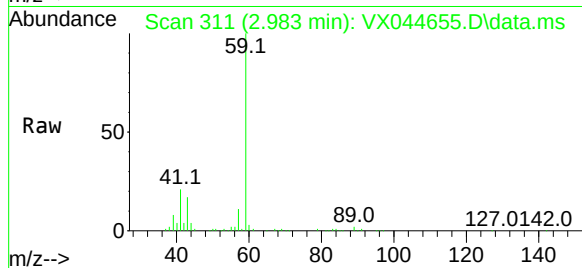
Ion Ratio Lower Upper

59 100

57 5.2 3.9 5.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#12

1,1-Dichloroethene

Concen: 51.243 ug/l

RT: 2.306 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

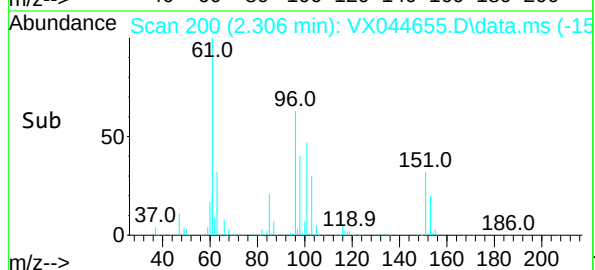
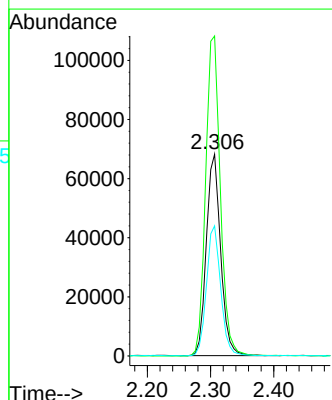
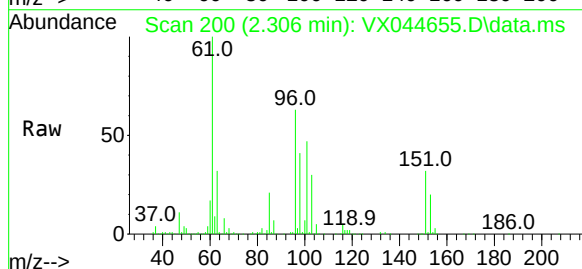
Tgt Ion: 96 Resp: 107643

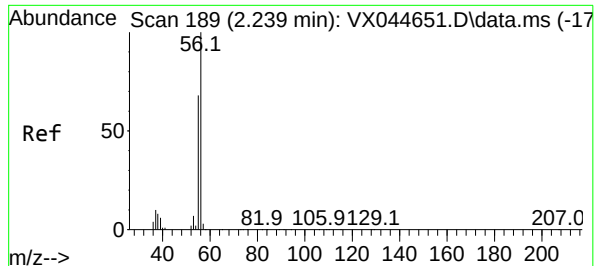
Ion Ratio Lower Upper

96 100

61 158.8 131.1 196.7

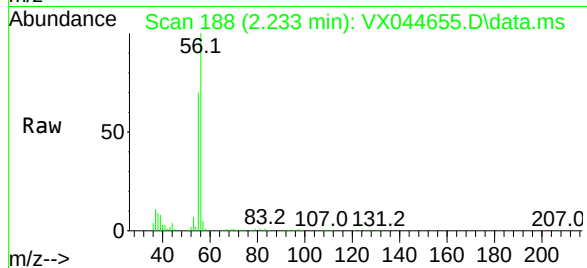
98 64.3 51.2 76.8





#13
Acrolein
Concen: 230.919 ug/l
RT: 2.233 min Scan# 189
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

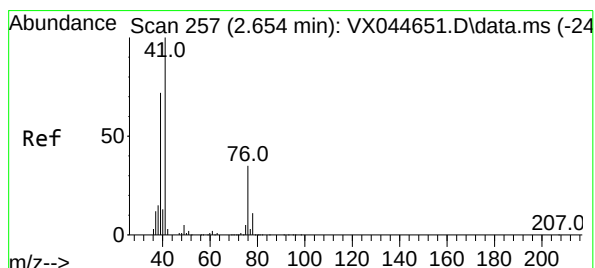
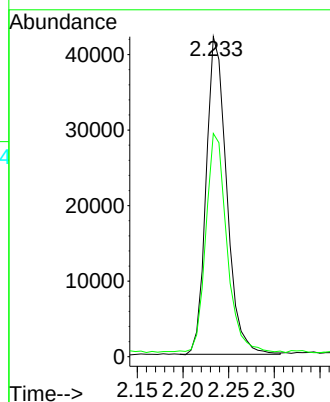
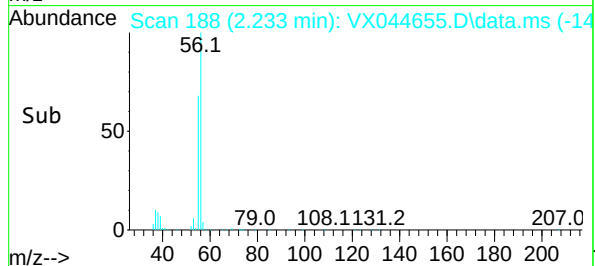
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion: 56 Resp: 65602
Ion Ratio Lower Upper
56 100
55 70.6 55.1 82.7

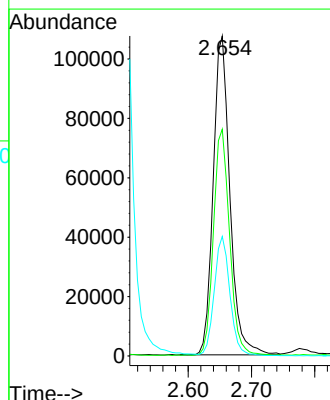
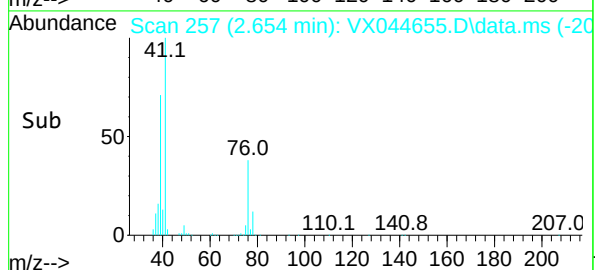
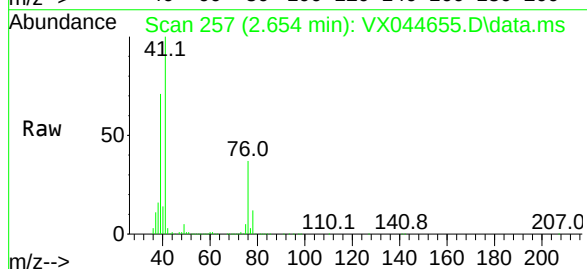
Manual Integrations
APPROVED

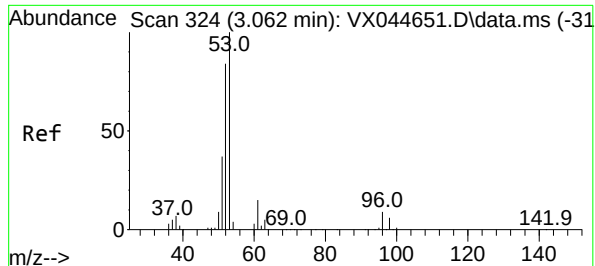
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#14
Allyl chloride
Concen: 48.232 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 41 Resp: 197270
Ion Ratio Lower Upper
41 100
39 68.5 54.9 82.3
76 35.6 28.4 42.6





#15

Acrylonitrile

Concen: 259.942 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 53 Resp: 307790

Ion Ratio Lower Upper

53 100

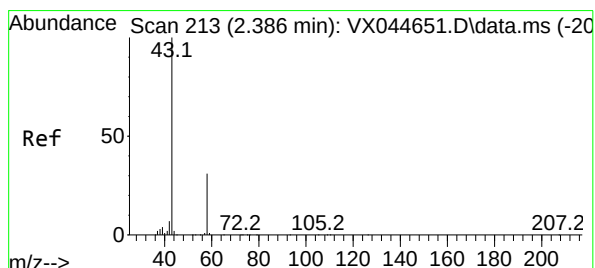
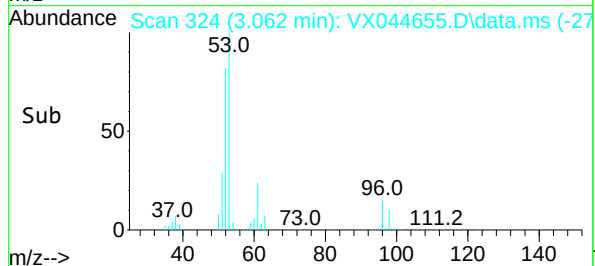
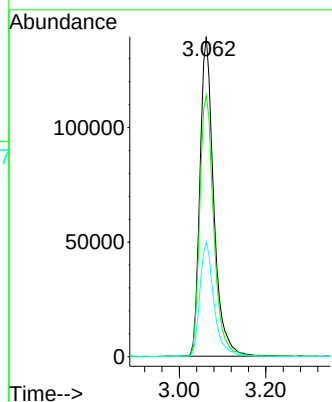
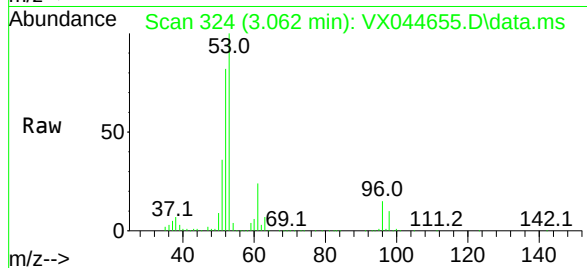
52 83.2 66.0 99.0

51 36.2 28.9 43.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#16

Acetone

Concen: 266.735 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX044655.D

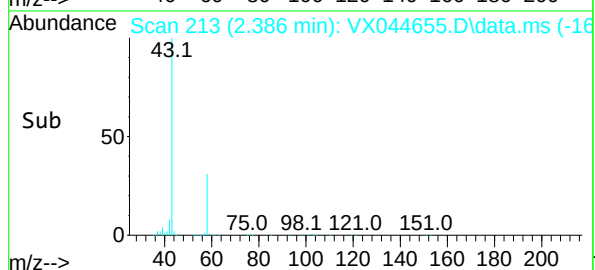
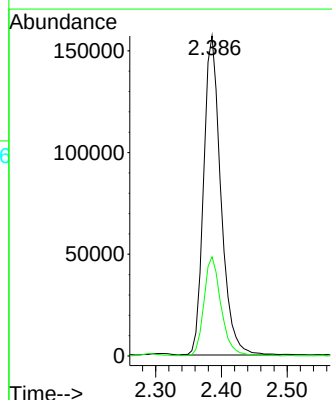
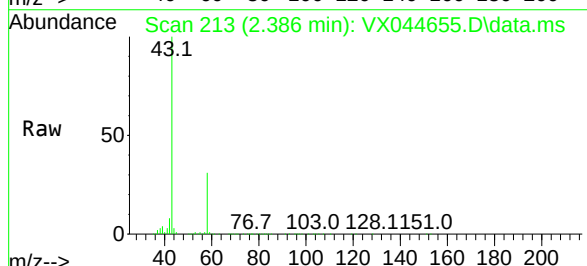
Acq: 15 Jan 2025 15:15

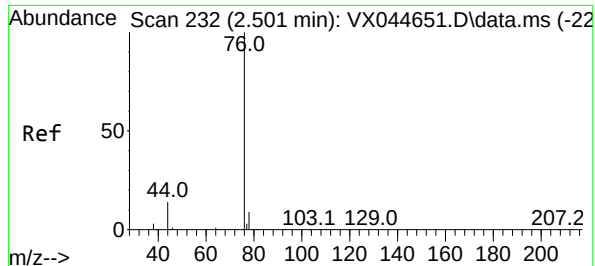
Tgt Ion: 43 Resp: 285777

Ion Ratio Lower Upper

43 100

58 31.0 24.6 37.0





#17

Carbon Disulfide

Concen: 50.827 ug/l

RT: 2.495 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX011525

Tgt Ion: 76 Resp: 291339

Ion Ratio Lower Upper

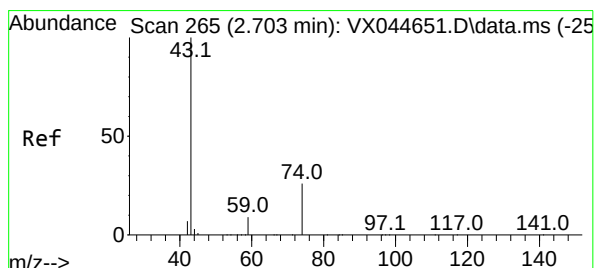
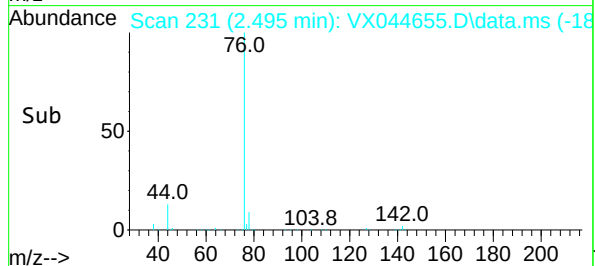
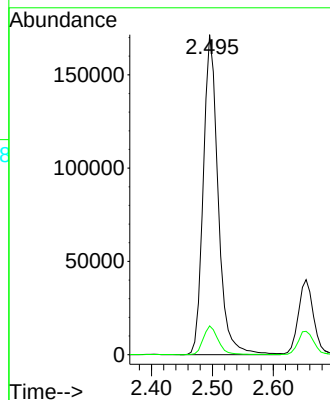
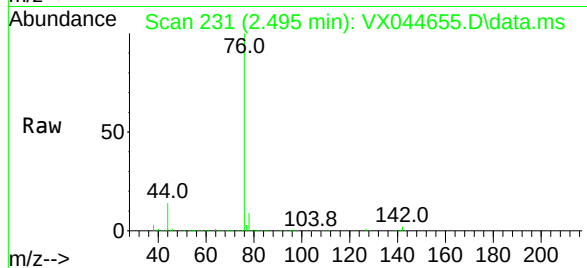
76 100

78 9.0 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#18

Methyl Acetate

Concen: 53.560 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044655.D

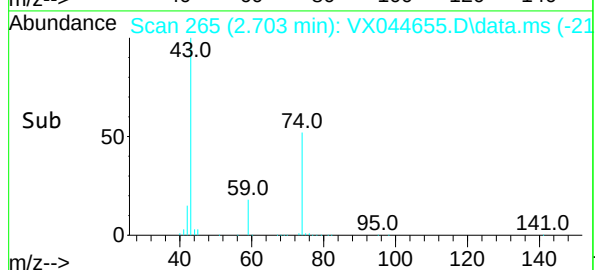
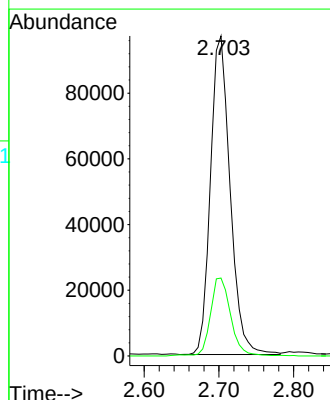
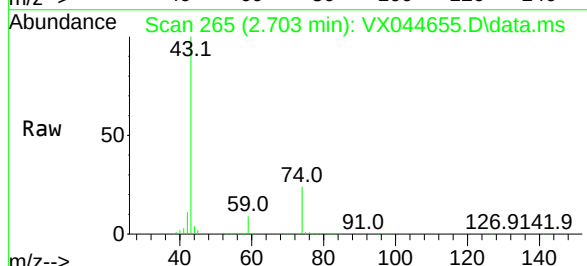
Acq: 15 Jan 2025 15:15

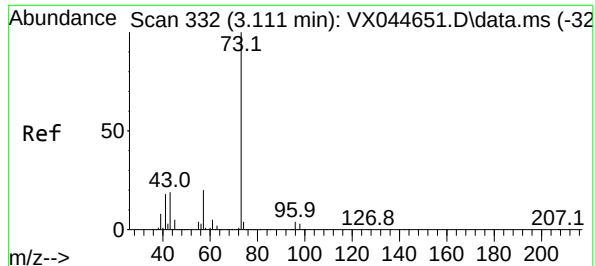
Tgt Ion: 43 Resp: 177037

Ion Ratio Lower Upper

43 100

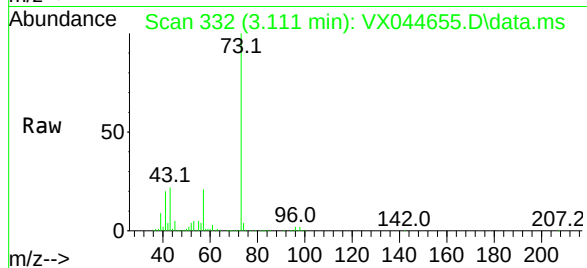
74 25.4 19.8 29.8





#19
Methyl tert-butyl Ether
Concen: 50.389 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

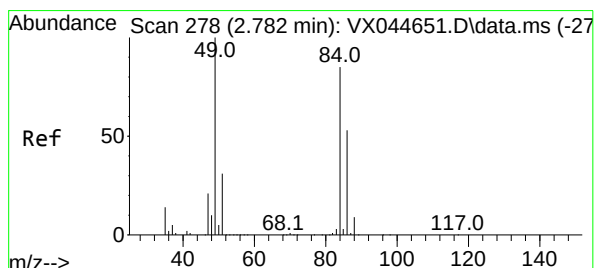
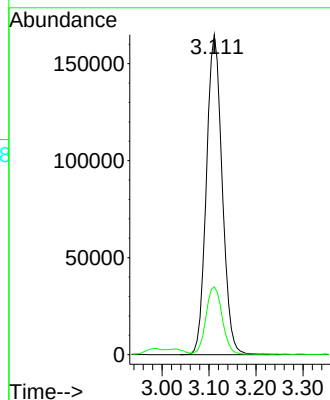
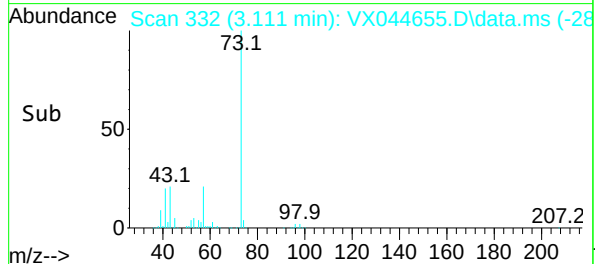
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion: 73 Resp: 383394
Ion Ratio Lower Upper
73 100
57 21.1 17.4 26.0

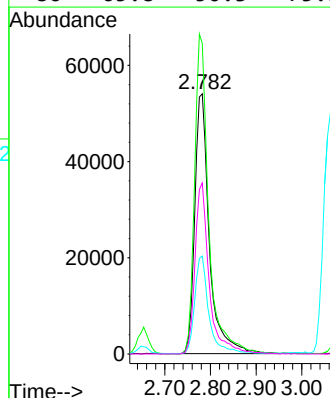
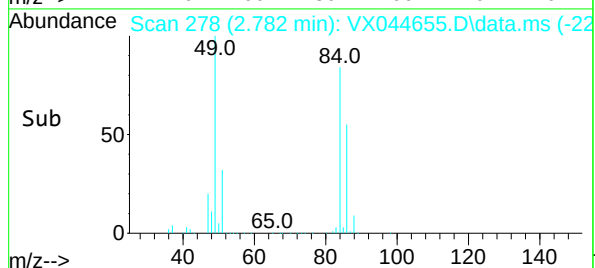
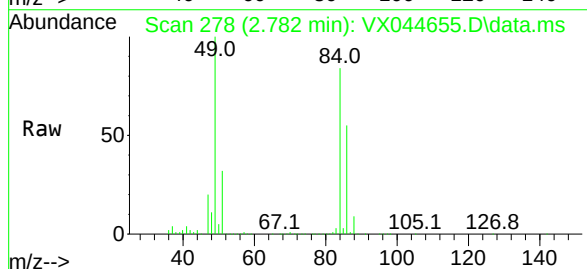
Manual Integrations
APPROVED

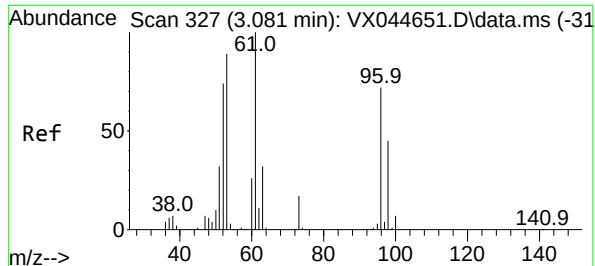
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#20
Methylene Chloride
Concen: 48.076 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

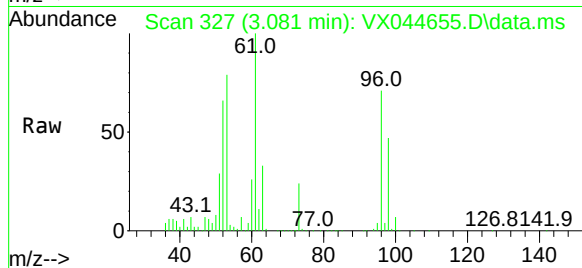
Tgt Ion: 84 Resp: 119950
Ion Ratio Lower Upper
84 100
49 119.5 94.2 141.4
51 37.6 28.8 43.2
86 65.8 50.3 75.5





#21
trans-1,2-Dichloroethene
Concen: 48.846 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

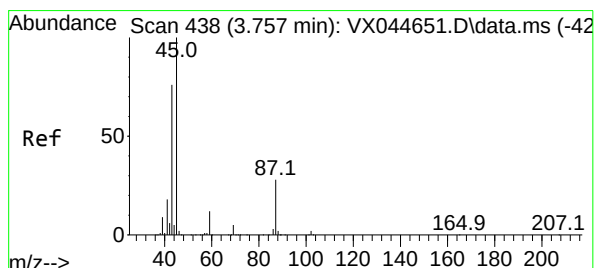
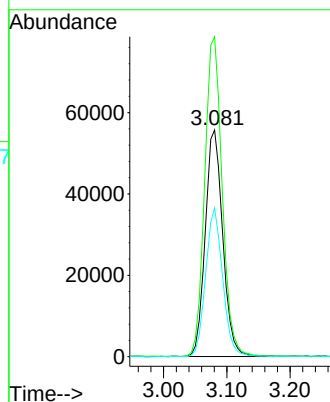
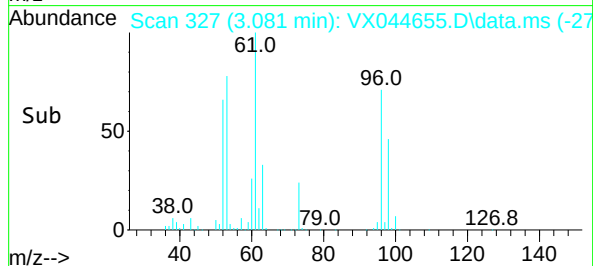
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion: 96 Resp: 10712
Ion Ratio Lower Upper
96 100
61 141.2 111.0 166.6
98 65.6 50.2 75.2

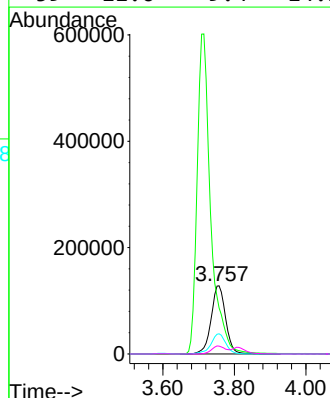
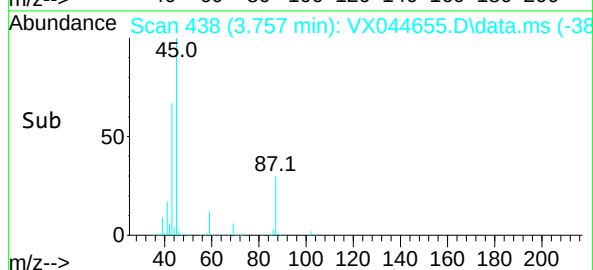
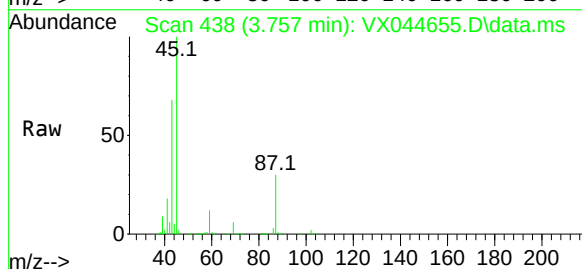
Manual Integrations
APPROVED

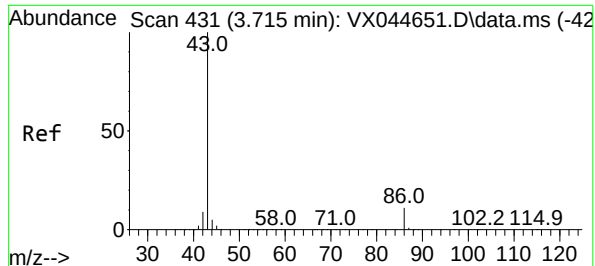
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#22
Diisopropyl ether
Concen: 50.659 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

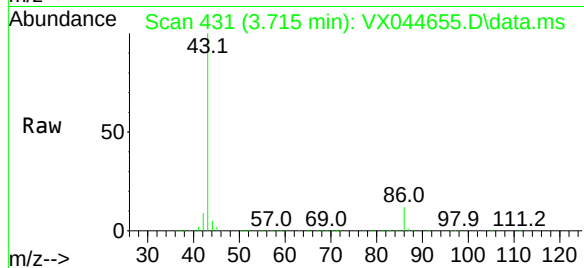
Tgt Ion: 45 Resp: 360169
Ion Ratio Lower Upper
45 100
43 67.3 61.0 91.6
87 29.5 22.7 34.1
59 11.6 9.4 14.2





#23
Vinyl Acetate
Concen: 254.442 ug/l
RT: 3.715 min Scan# 411
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

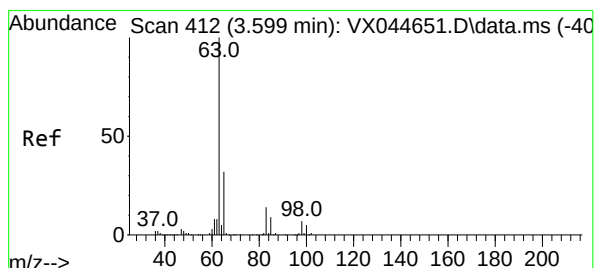
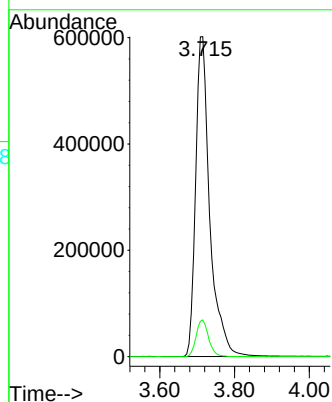
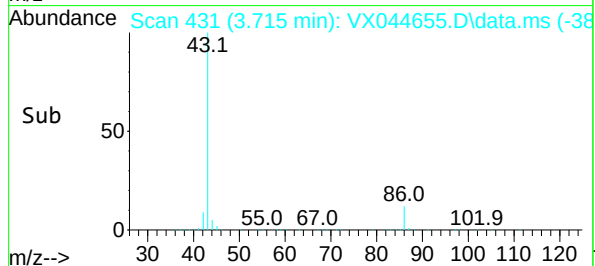
Instrument :
MSVOA_X
ClientSampleId :
ICVX011525



Tgt Ion: 43 Resp: 1583340
Ion Ratio Lower Upper
43 100
86 11.5 8.9 13.3

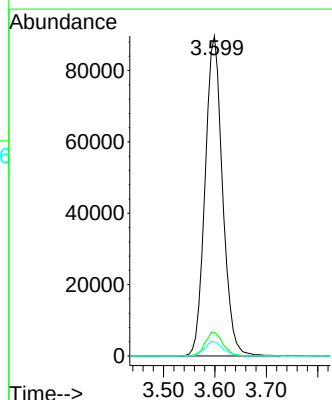
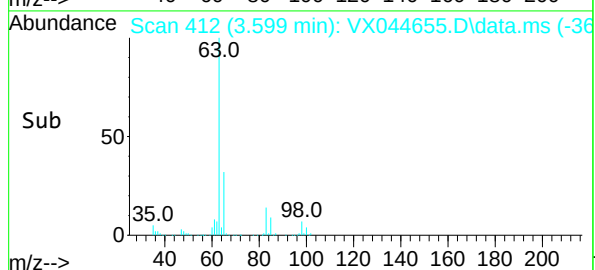
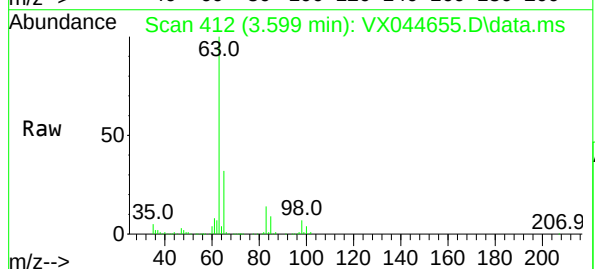
Manual Integrations
APPROVED

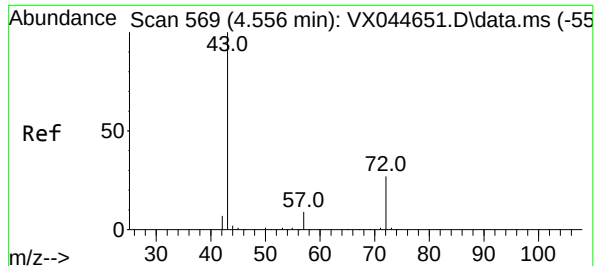
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#24
1,1-Dichloroethane
Concen: 50.150 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

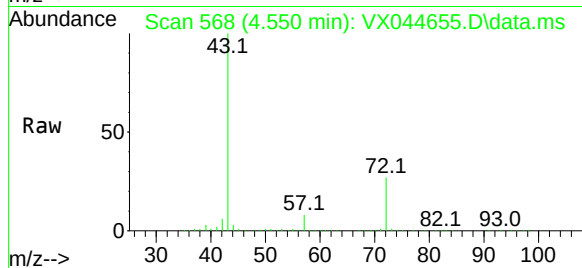
Tgt Ion: 63 Resp: 211436
Ion Ratio Lower Upper
63 100
98 7.2 3.6 10.9
100 4.4 2.5 7.5





#25
2-Butanone
Concen: 265.596 ug/l
RT: 4.550 min Scan# 50
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

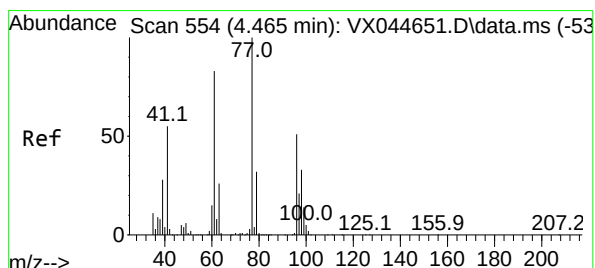
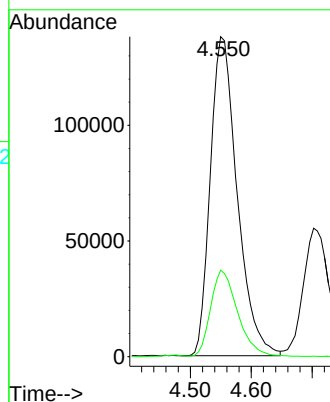
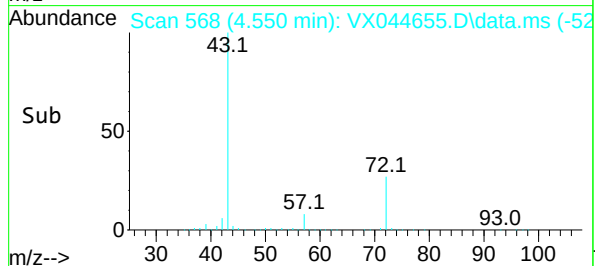
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion: 43 Resp: 42308
Ion Ratio Lower Upper
43 100
72 26.8 21.7 32.5

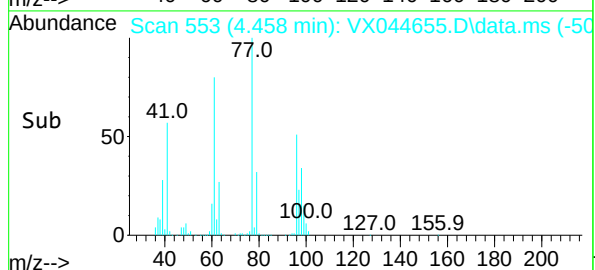
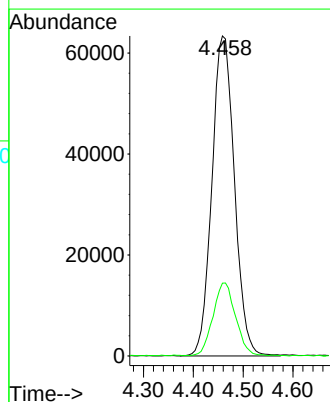
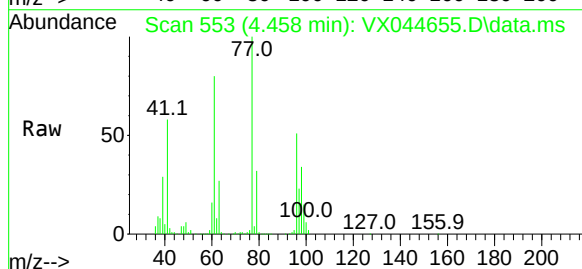
Manual Integrations
APPROVED

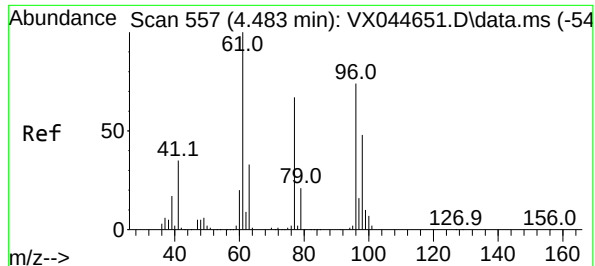
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#26
2,2-Dichloropropane
Concen: 48.697 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 77 Resp: 198981
Ion Ratio Lower Upper
77 100
97 22.6 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 48.831 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX011525

Tgt Ion: 96 Resp: 13471

Ion Ratio Lower Upper

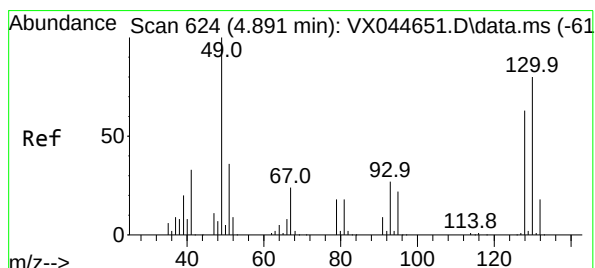
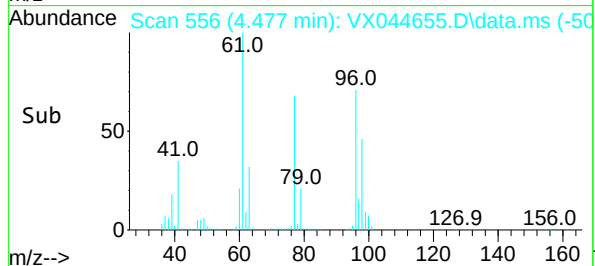
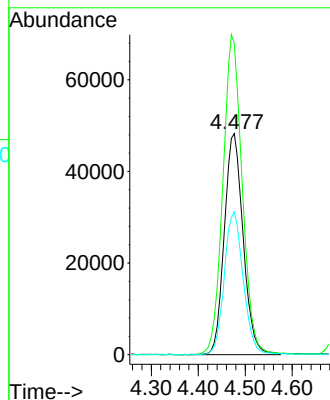
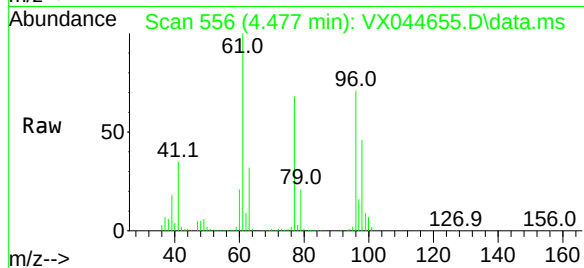
96 100

61 148.4 0.0 296.0

98 64.7 0.0 130.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#28

Bromochloromethane

Concen: 49.545 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

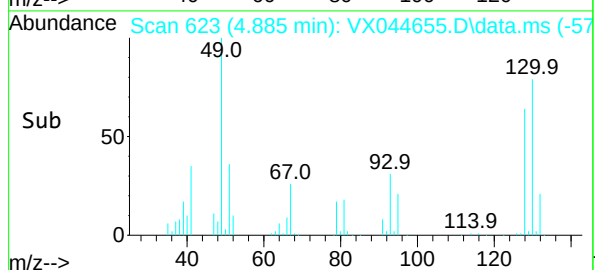
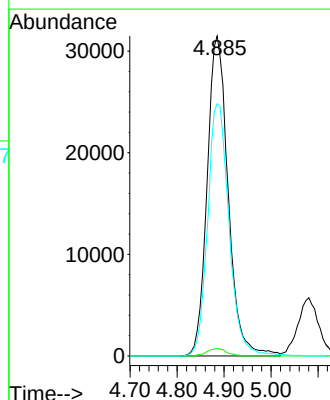
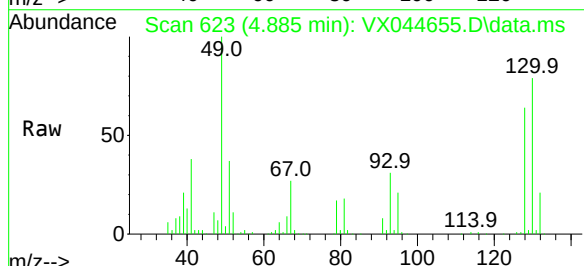
Tgt Ion: 49 Resp: 97608

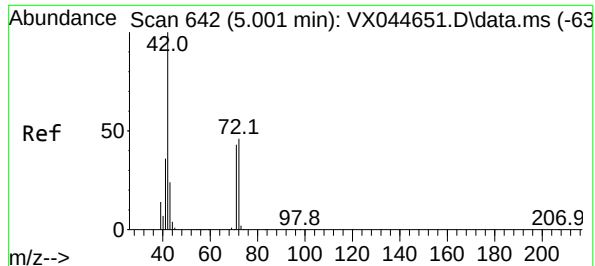
Ion Ratio Lower Upper

49 100

129 2.2 0.0 4.4

130 80.4 63.4 95.2





#29

Tetrahydrofuran

Concen: 256.578 ug/l

RT: 4.995 min Scan# 641

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX011525

Tgt Ion: 42 Resp: 26363

Ion Ratio Lower Upper

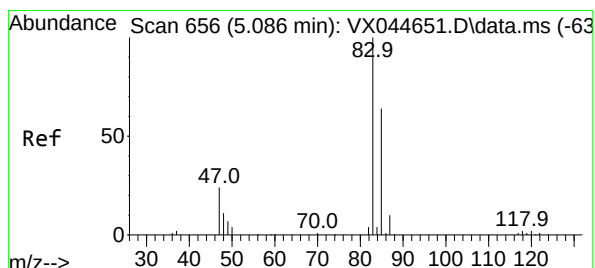
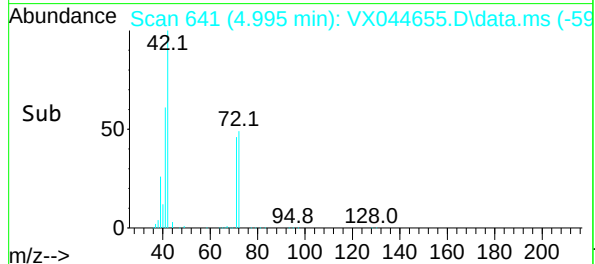
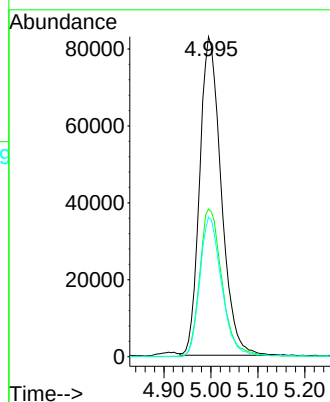
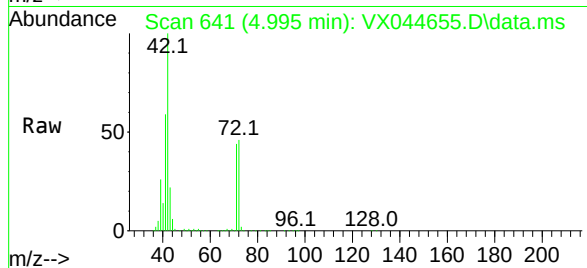
42 100

72 48.3 38.2 57.4

71 44.3 35.3 52.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#30

Chloroform

Concen: 50.304 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.006 min

Lab File: VX044655.D

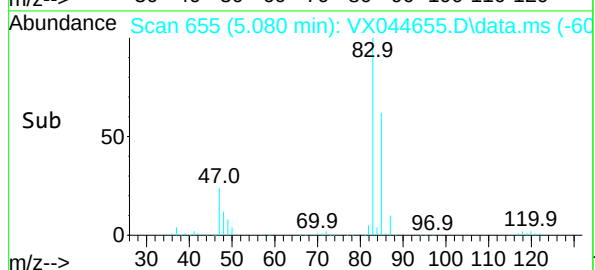
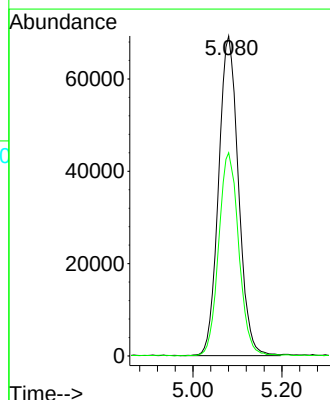
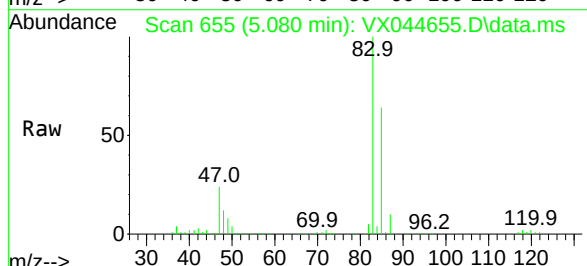
Acq: 15 Jan 2025 15:15

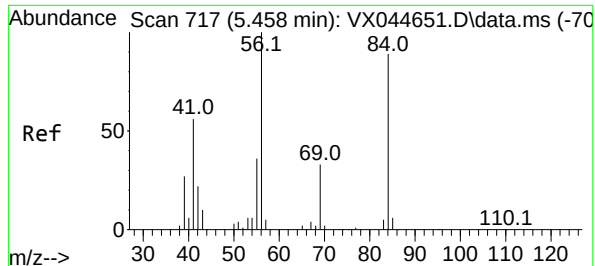
Tgt Ion: 83 Resp: 214034

Ion Ratio Lower Upper

83 100

85 63.5 51.2 76.8





#31

Cyclohexane

Concen: 52.878 ug/l

RT: 5.452 min Scan# 716

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 56 Resp: 180309

Ion Ratio Lower Upper

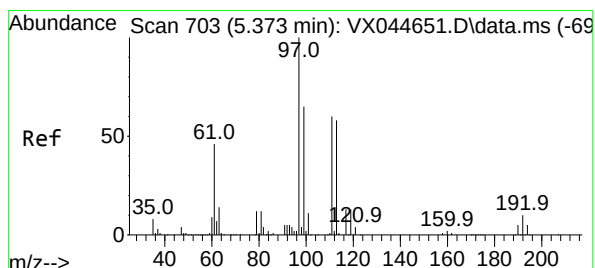
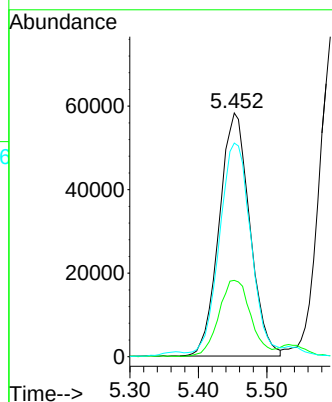
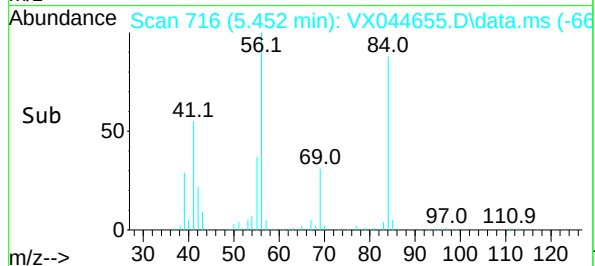
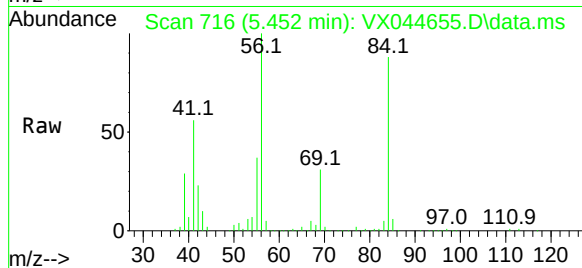
56 100

69 31.2 26.8 40.2

84 86.0 71.0 106.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#32

1,1,1-Trichloroethane

Concen: 48.859 ug/l

RT: 5.367 min Scan# 702

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

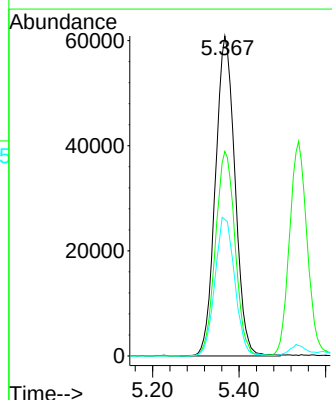
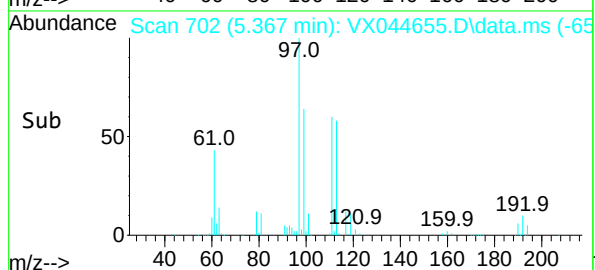
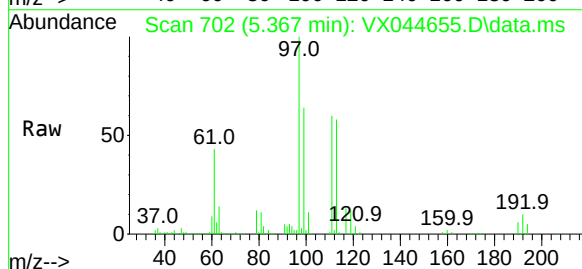
Tgt Ion: 97 Resp: 191114

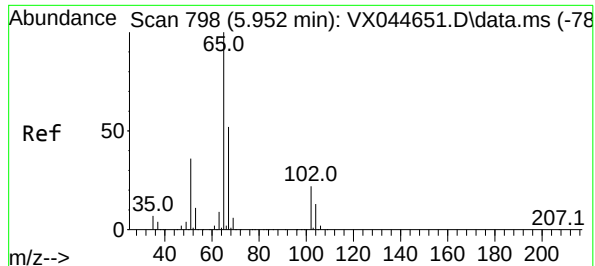
Ion Ratio Lower Upper

97 100

99 63.9 51.6 77.4

61 43.9 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 52.363 ug/l

RT: 5.940 min Scan# 798

Delta R.T. -0.012 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 65 Resp: 141798

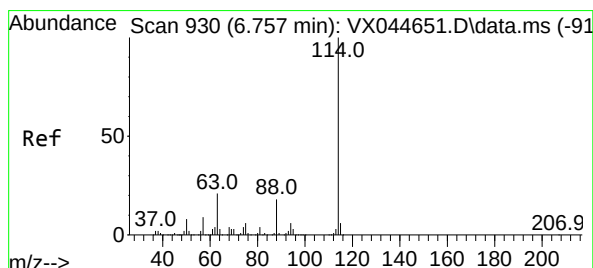
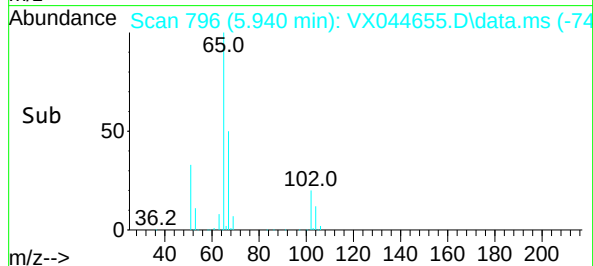
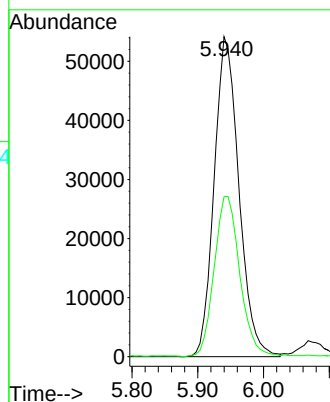
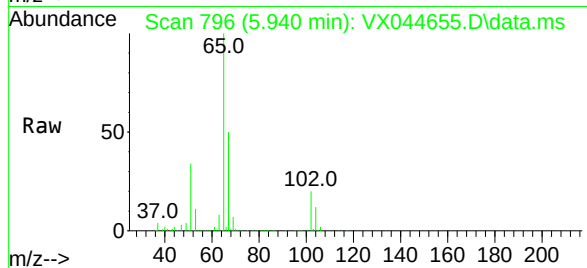
Ion Ratio Lower Upper

65 100

67 52.0 0.0 103.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

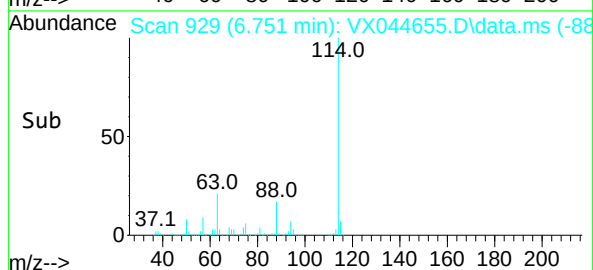
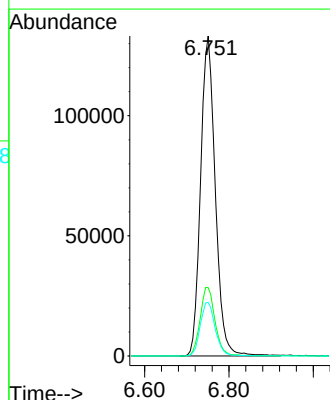
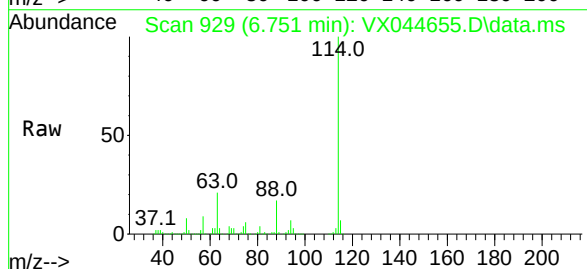
Tgt Ion:114 Resp: 323521

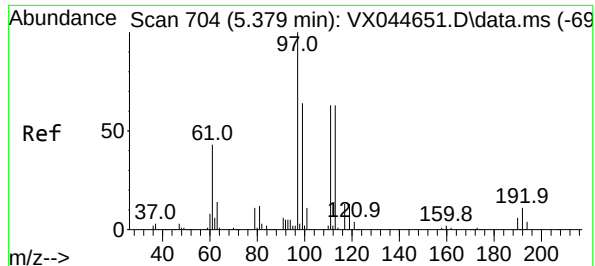
Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.0

88 16.8 0.0 35.4





#35

Dibromofluoromethane

Concen: 53.683 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion:113 Resp: 11033

Ion Ratio Lower Upper

113 100

111 104.5 81.6 122.4

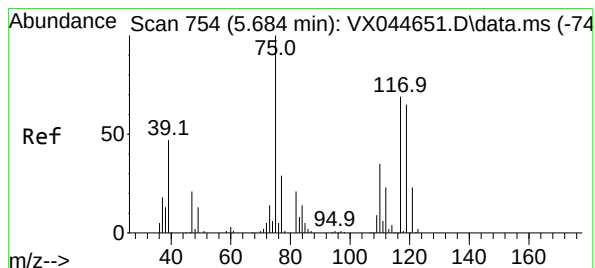
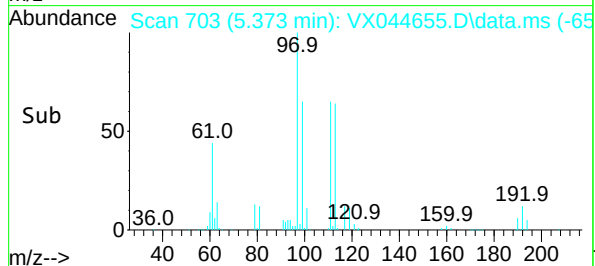
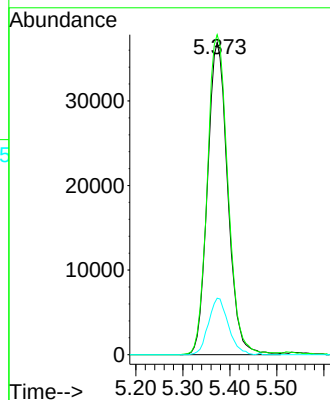
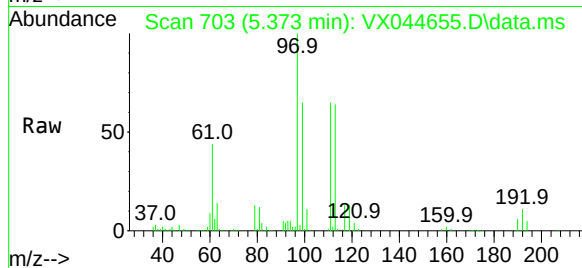
192 17.7 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#36

1,1-Dichloropropene

Concen: 50.294 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

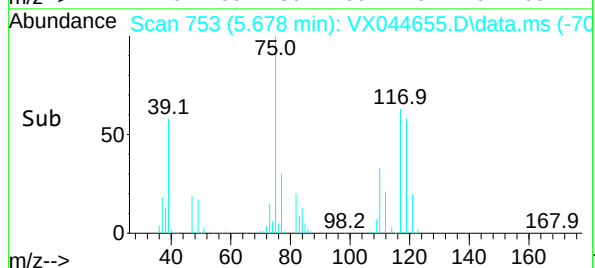
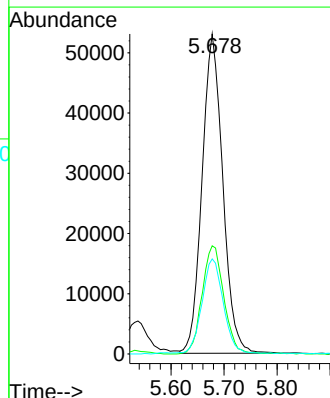
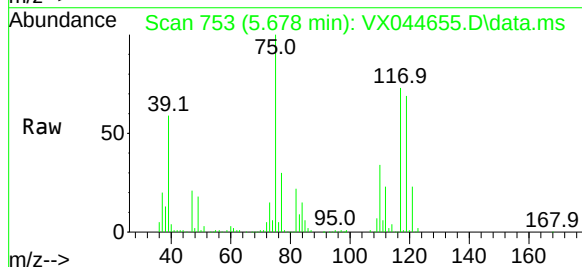
Tgt Ion: 75 Resp: 143891

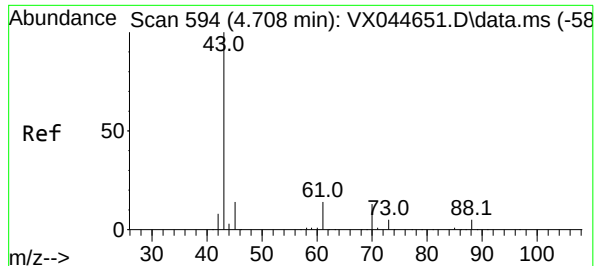
Ion Ratio Lower Upper

75 100

110 35.5 17.9 53.8

77 30.2 24.5 36.7





#37

Ethyl Acetate

Concen: 54.526 ug/l

RT: 4.702 min Scan# 594

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 43 Resp: 166128

Ion Ratio Lower Upper

43 100

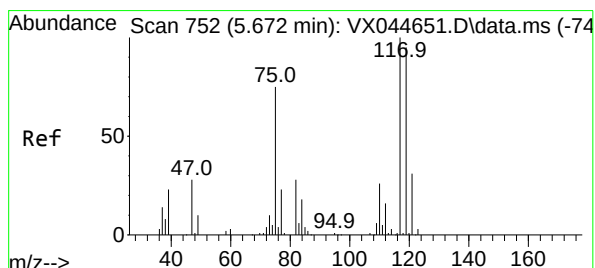
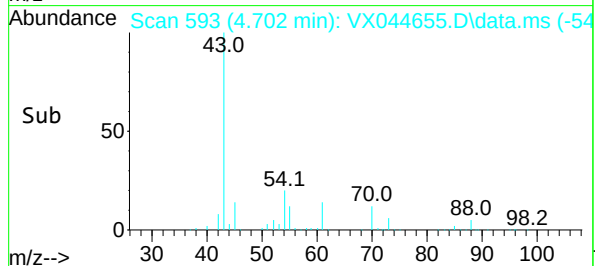
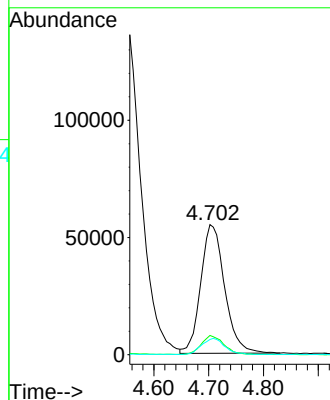
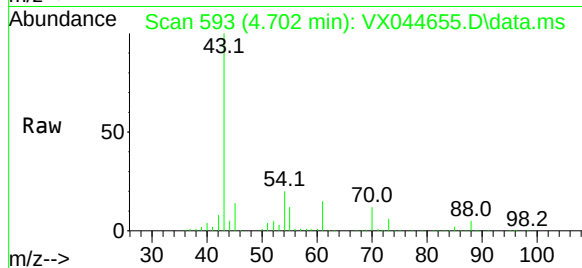
61 13.7 10.9 16.3

70 12.2 10.1 15.1

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#38

Carbon Tetrachloride

Concen: 50.287 ug/l

RT: 5.659 min Scan# 750

Delta R.T. -0.012 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

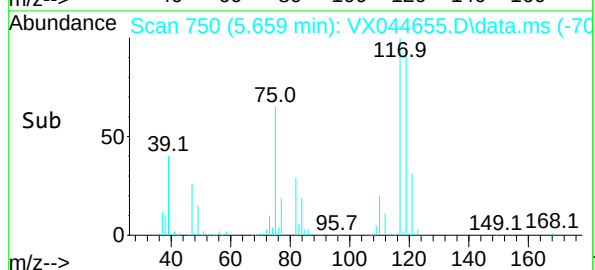
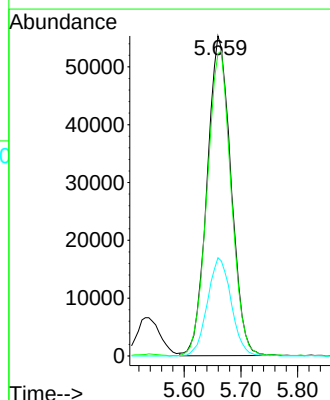
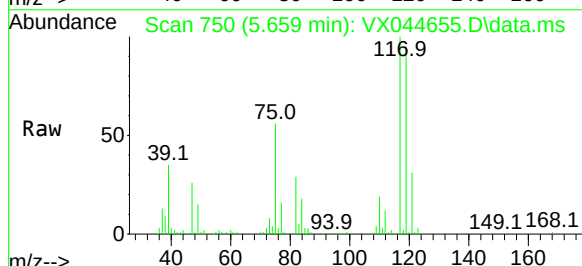
Tgt Ion:117 Resp: 161829

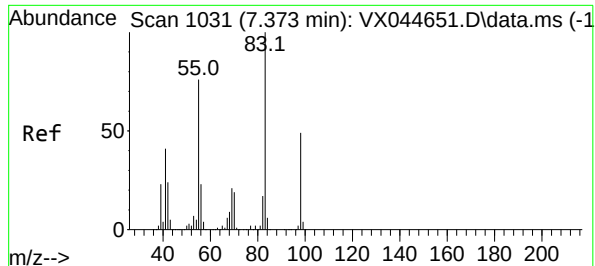
Ion Ratio Lower Upper

117 100

119 94.5 76.0 114.0

121 30.8 24.6 36.8





#39

Methylcyclohexane

Concen: 52.520 ug/l

RT: 7.366 min Scan# 1031

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 83 Resp: 199470

Ion Ratio Lower Upper

83 100

55 77.8 60.5 90.7

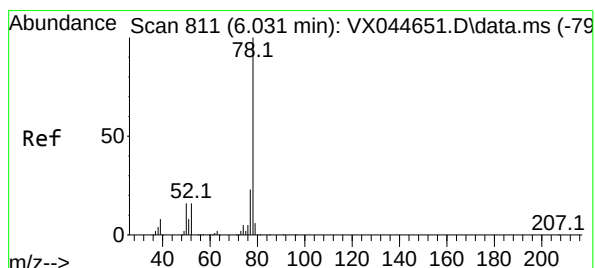
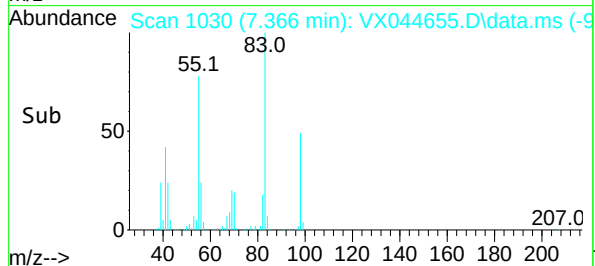
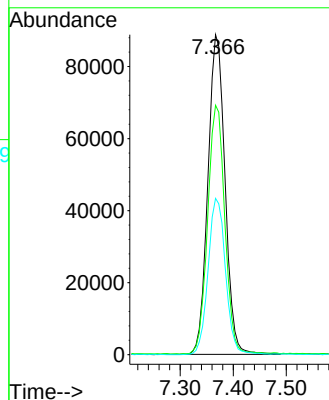
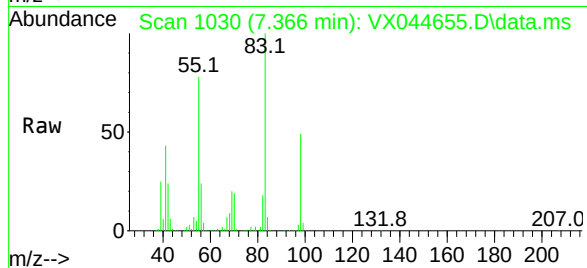
98 48.9 39.0 58.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025

Supervised By :Semsettin Yesilyurt 01/16/2025



#40

Benzene

Concen: 50.610 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.006 min

Lab File: VX044655.D

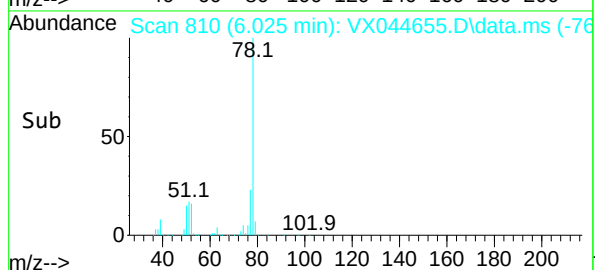
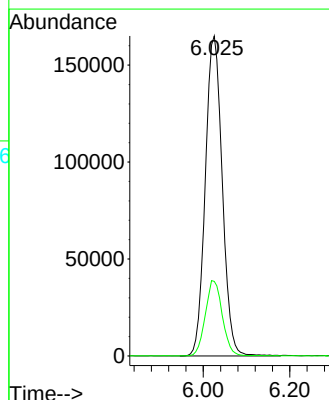
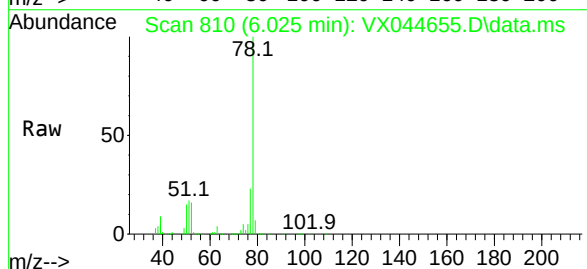
Acq: 15 Jan 2025 15:15

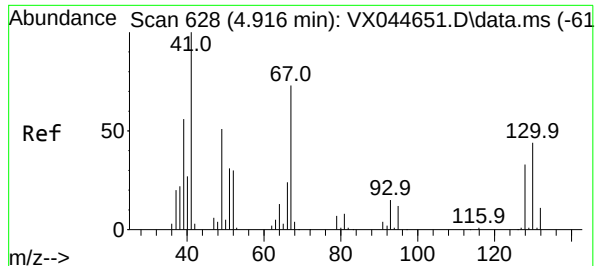
Tgt Ion: 78 Resp: 448684

Ion Ratio Lower Upper

78 100

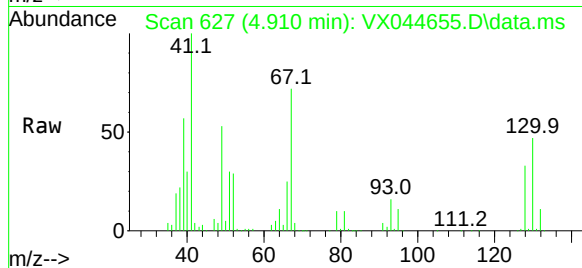
77 23.2 18.7 28.1





#41
Methacrylonitrile
Concen: 51.342 ug/l
RT: 4.910 min Scan# 611
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

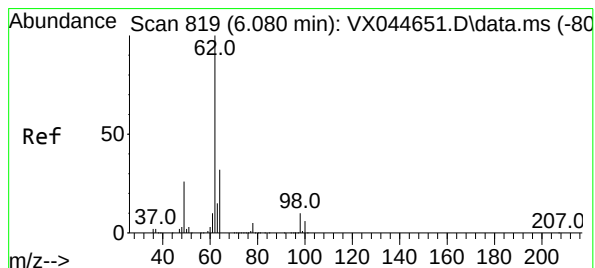
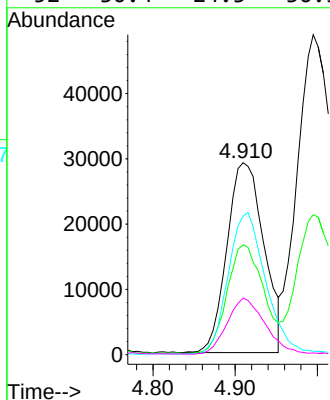
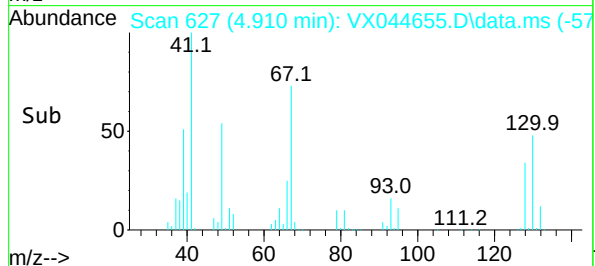
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion: 41 Resp: 9115
Ion Ratio Lower Upper
41 100
39 56.2 44.4 66.6
67 75.5 60.6 90.8
52 30.4 24.3 36.5

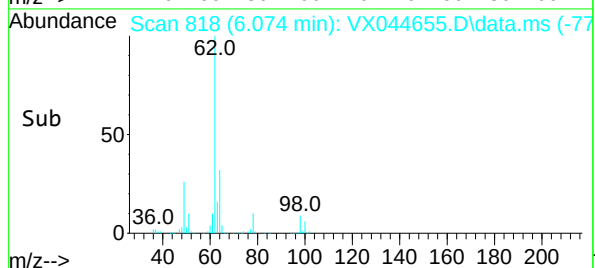
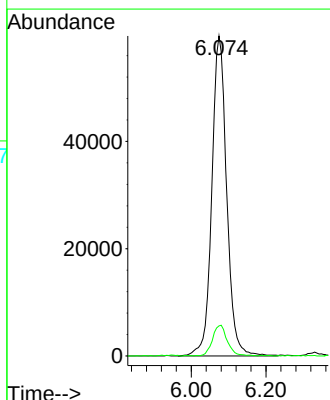
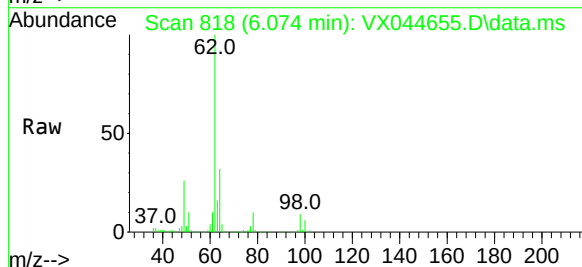
Manual Integrations
APPROVED

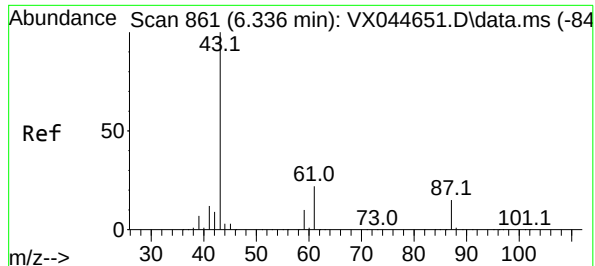
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#42
1,2-Dichloroethane
Concen: 50.902 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 62 Resp: 164707
Ion Ratio Lower Upper
62 100
98 9.7 0.0 19.4





#43

Isopropyl Acetate

Concen: 50.871 ug/l

RT: 6.330 min Scan# 861

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 43 Resp: 28512

Ion Ratio Lower Upper

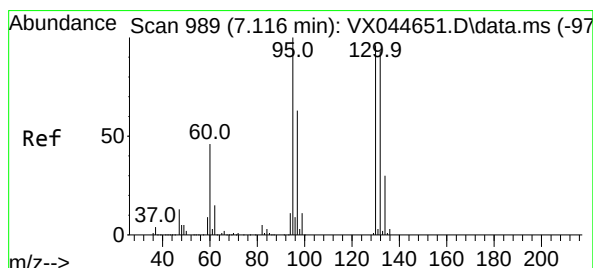
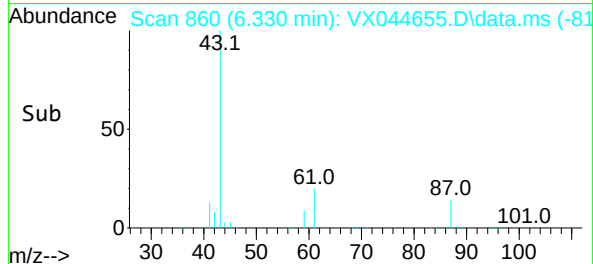
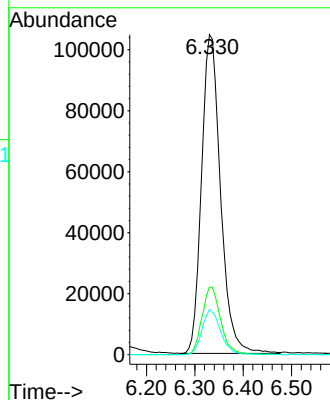
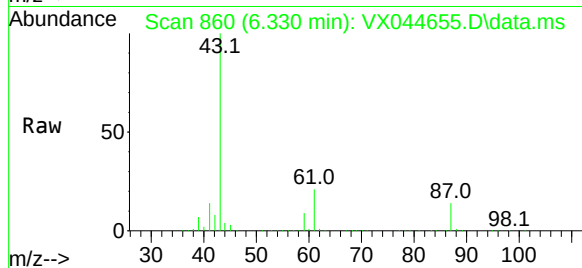
43 100

61 20.9 16.6 24.8

87 13.8 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#44

Trichloroethene

Concen: 51.887 ug/l

RT: 7.116 min Scan# 989

Delta R.T. 0.000 min

Lab File: VX044655.D

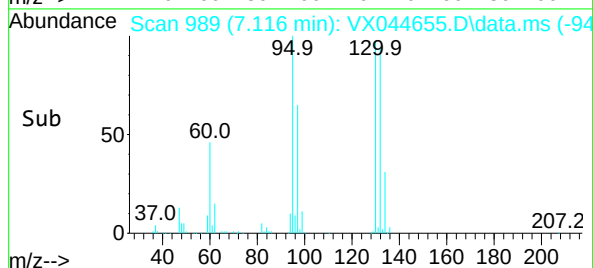
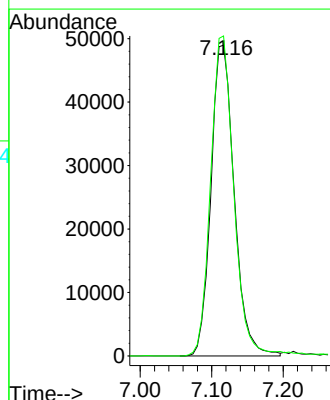
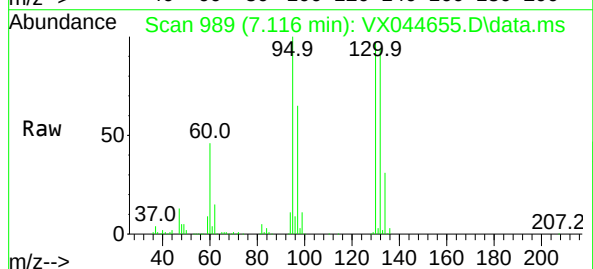
Acq: 15 Jan 2025 15:15

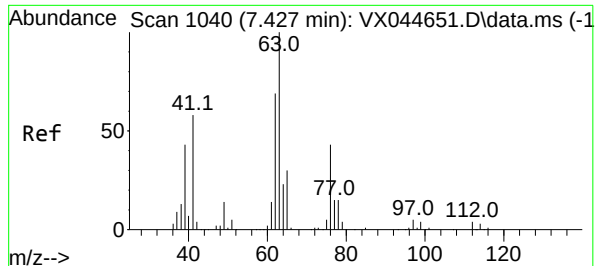
Tgt Ion:130 Resp: 110588

Ion Ratio Lower Upper

130 100

95 103.0 0.0 208.2





#45

1,2-Dichloropropane

Concen: 51.011 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX011525

Tgt Ion: 63 Resp: 11383

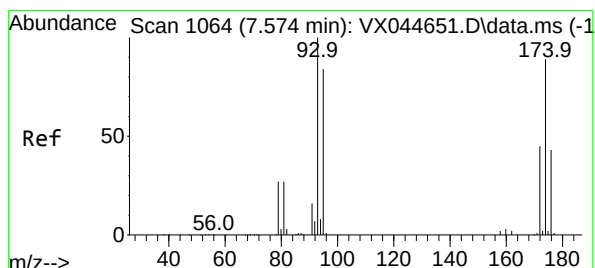
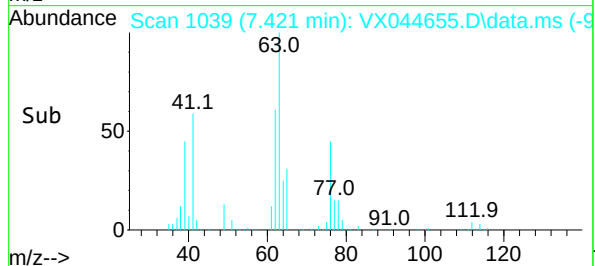
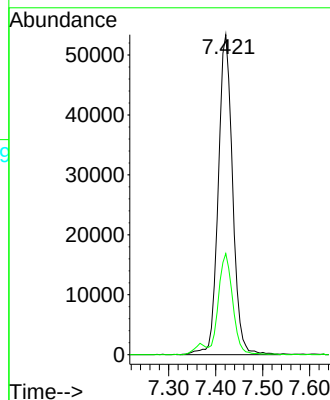
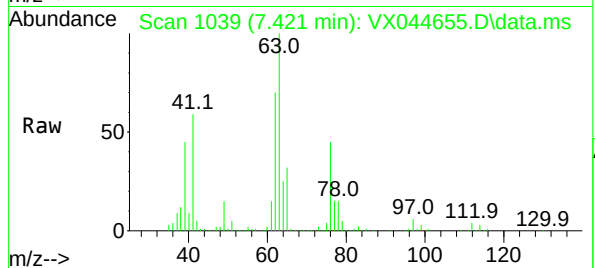
Ion Ratio Lower Upper

63 100

65 31.6 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#46

Dibromomethane

Concen: 49.939 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

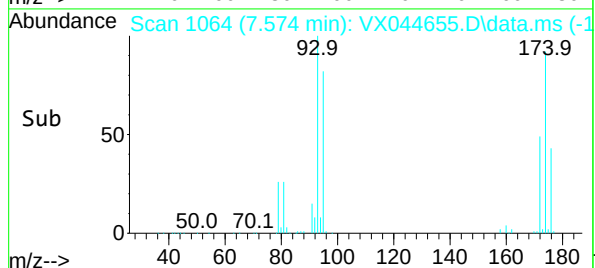
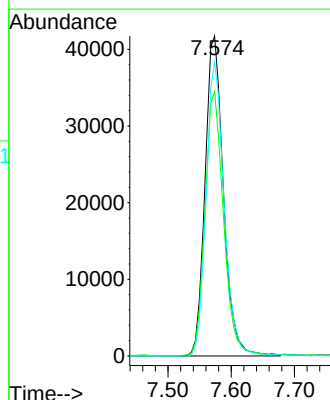
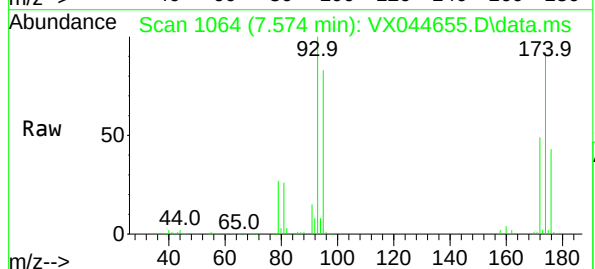
Tgt Ion: 93 Resp: 84838

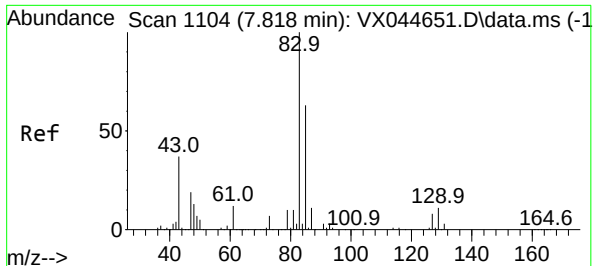
Ion Ratio Lower Upper

93 100

95 83.4 66.4 99.6

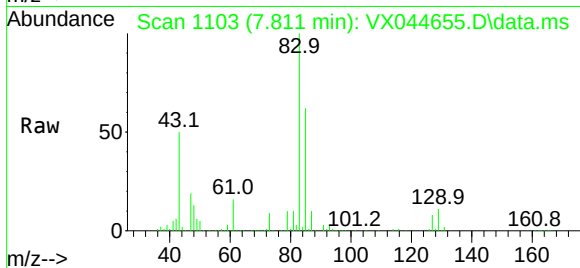
174 90.0 72.0 108.0





#47
Bromodichloromethane
Concen: 50.029 ug/l
RT: 7.811 min Scan# 1103
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

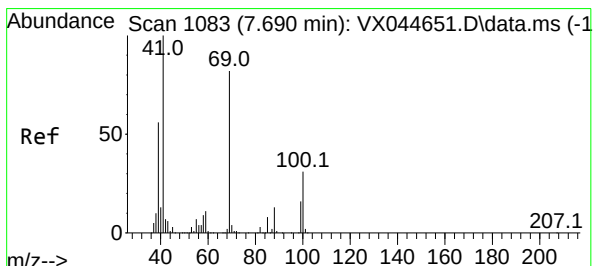
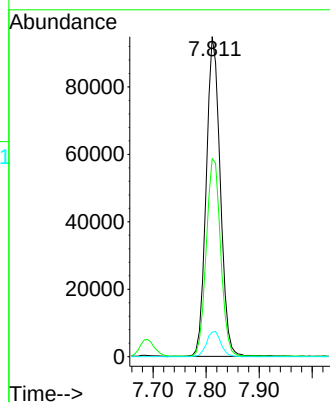
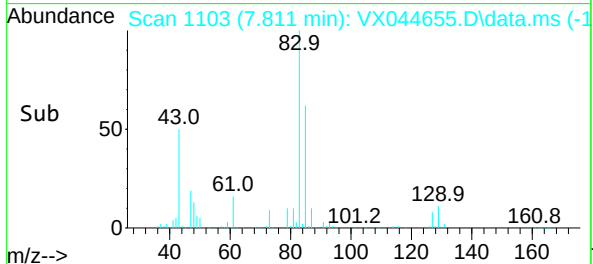
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion: 83 Resp: 17429
Ion Ratio Lower Upper
83 100
85 61.7 50.1 75.1
127 7.7 6.5 9.7

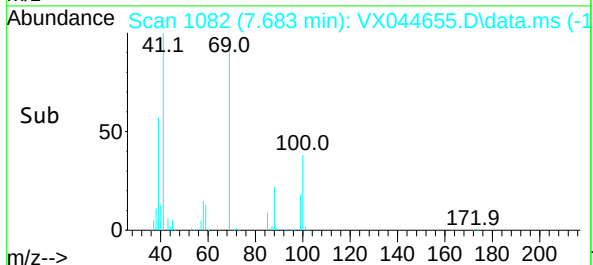
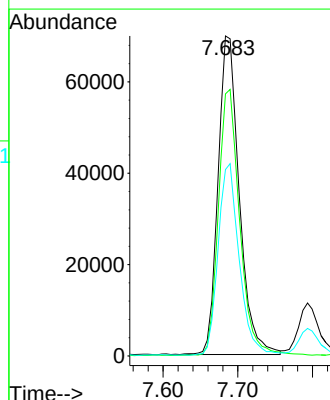
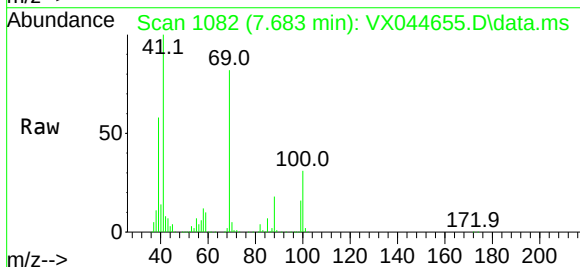
Manual Integrations
APPROVED

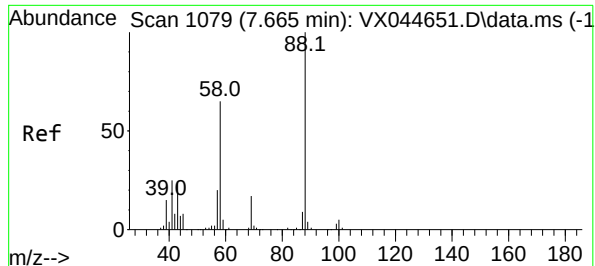
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#48
Methyl methacrylate
Concen: 52.890 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 41 Resp: 137603
Ion Ratio Lower Upper
41 100
69 84.2 66.8 100.2
39 59.6 47.4 71.0





#49

1,4-Dioxane

Concen: 992.095 ug/l

RT: 7.665 min Scan# 1079

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 88 Resp: 5385

Ion Ratio Lower Upper

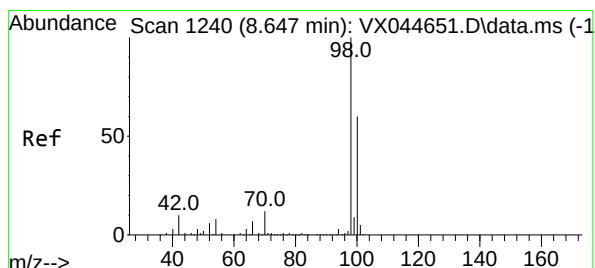
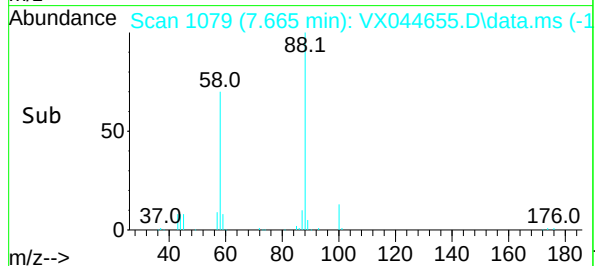
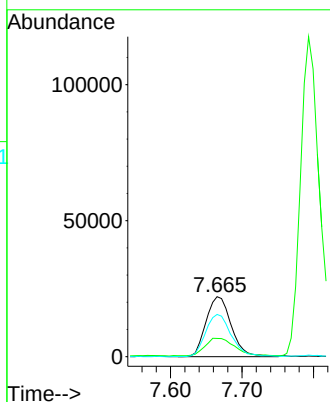
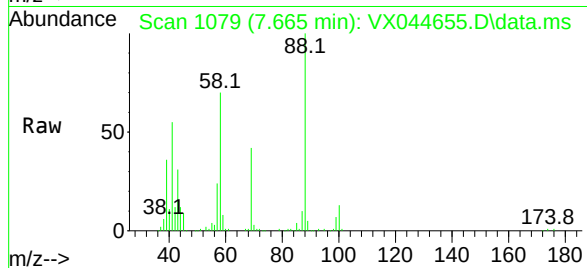
88 100

43 35.2 27.0 40.4

58 72.4 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#50

Toluene-d8

Concen: 53.113 ug/l

RT: 8.641 min Scan# 1239

Delta R.T. -0.006 min

Lab File: VX044655.D

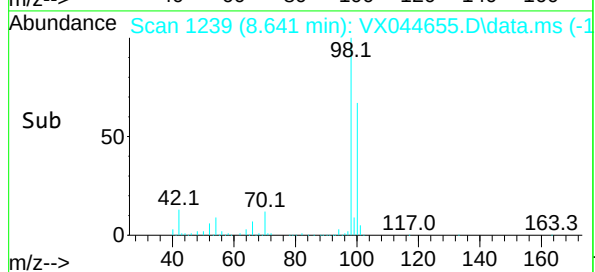
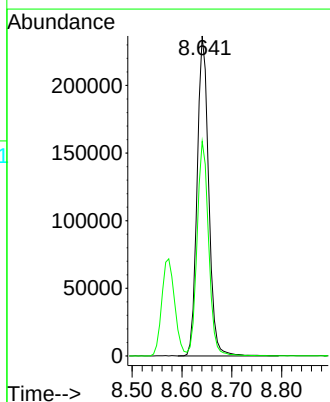
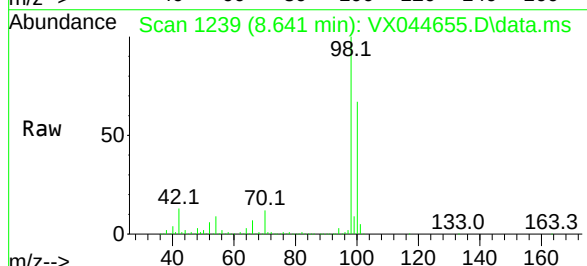
Acq: 15 Jan 2025 15:15

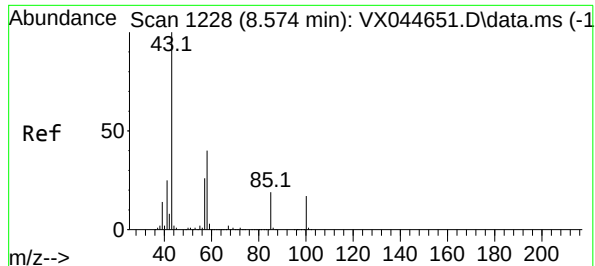
Tgt Ion: 98 Resp: 380624

Ion Ratio Lower Upper

98 100

100 66.9 53.2 79.8





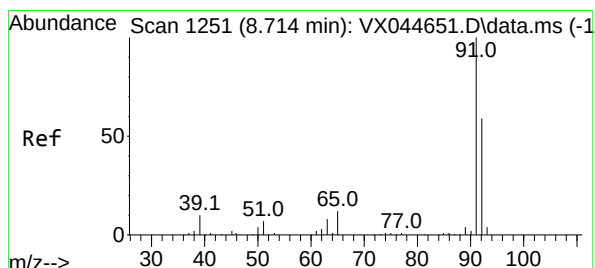
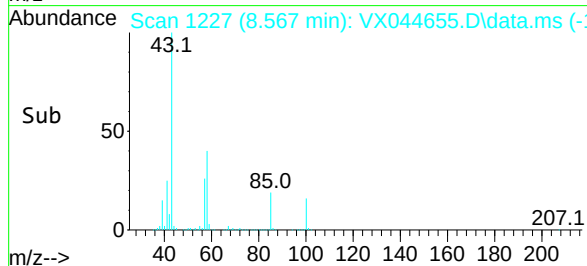
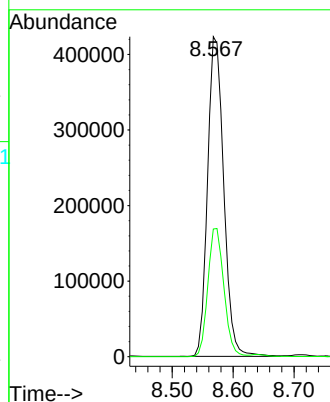
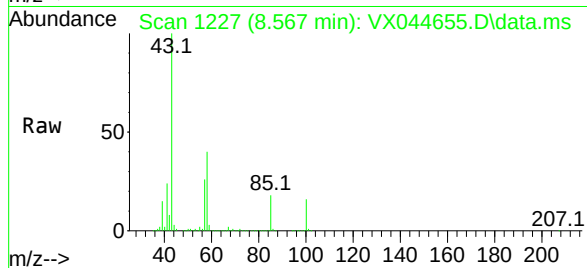
#51
4-Methyl-2-Pentanone
Concen: 251.778 ug/l
RT: 8.567 min Scan# 1227
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525

Tgt Ion: 43 Resp: 77985
Ion Ratio Lower Upper
43 100
58 39.9 31.9 47.9

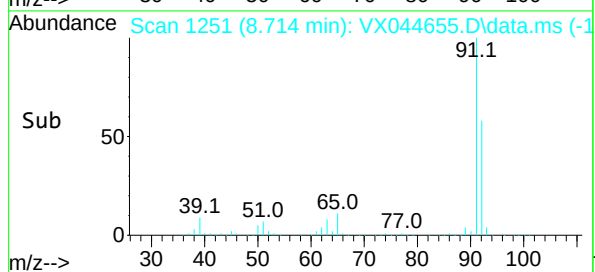
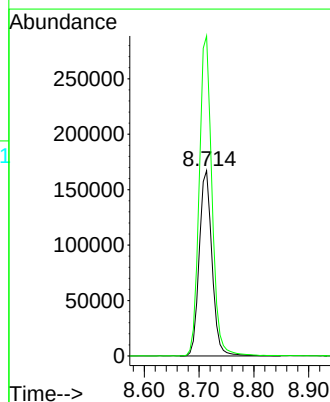
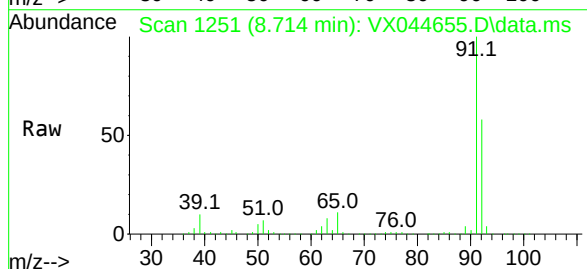
Manual Integrations
APPROVED

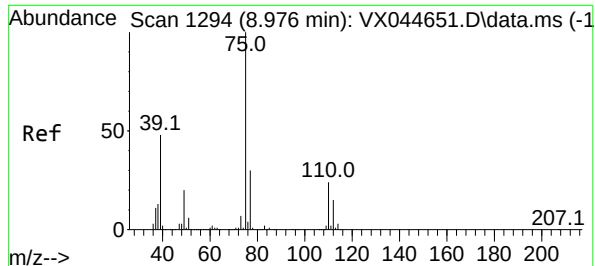
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#52
Toluene
Concen: 49.955 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 92 Resp: 271071
Ion Ratio Lower Upper
92 100
91 172.7 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 51.300 ug/l

RT: 8.970 min Scan# 1294

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 75 Resp: 18465

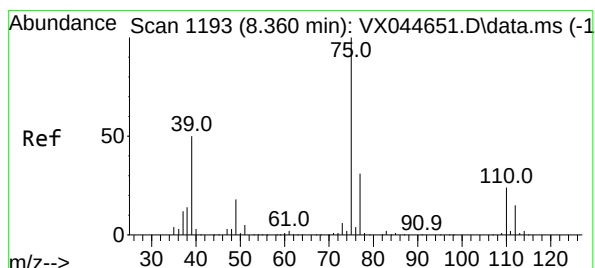
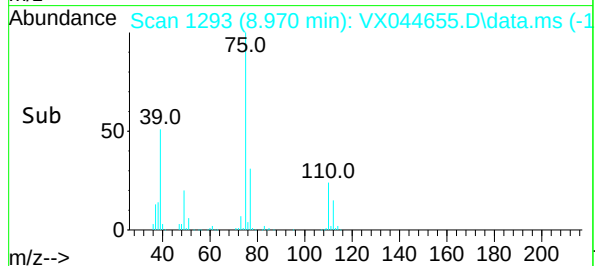
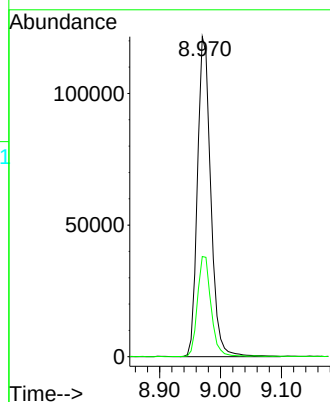
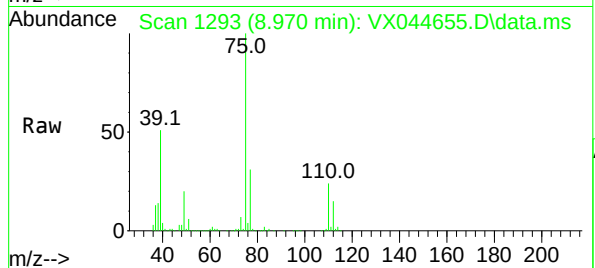
Ion Ratio Lower Upper

75 100

77 31.3 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#54

cis-1,3-Dichloropropene

Concen: 51.049 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

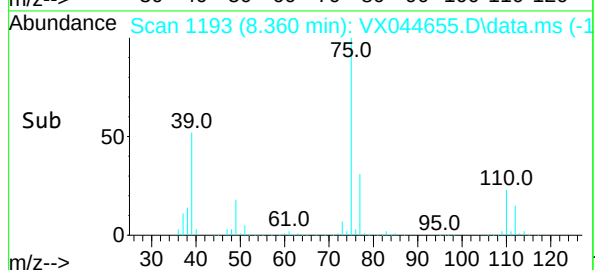
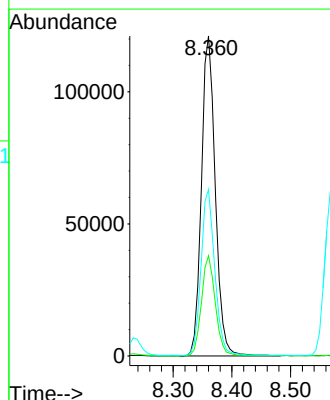
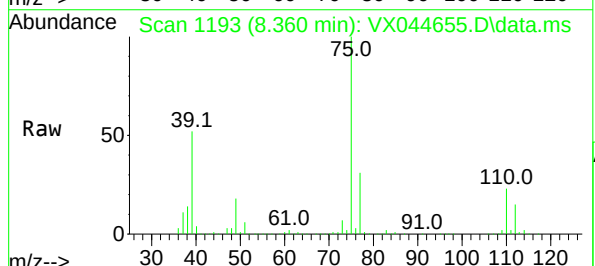
Tgt Ion: 75 Resp: 199240

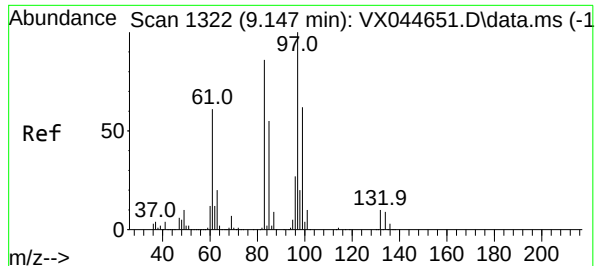
Ion Ratio Lower Upper

75 100

77 31.3 25.1 37.7

39 51.9 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 50.085 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 97 Resp: 10995

Ion Ratio Lower Upper

97 100

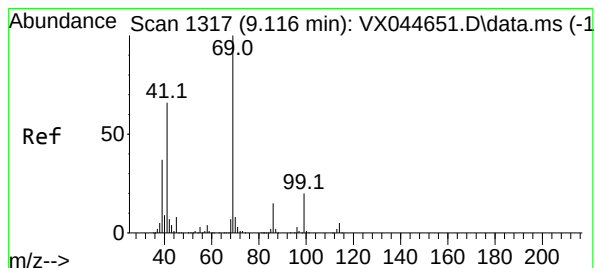
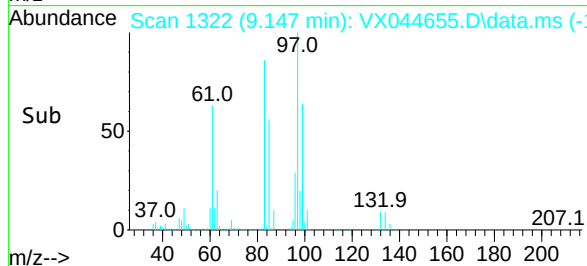
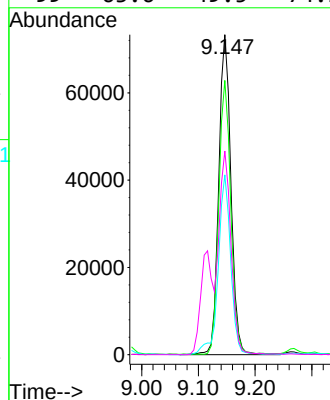
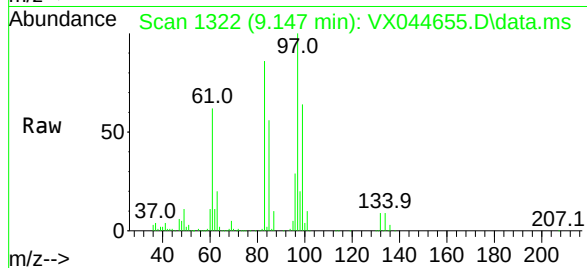
83 85.6 68.8 103.2

85 56.2 43.7 65.5

99 63.6 49.5 74.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#56

Ethyl methacrylate

Concen: 50.595 ug/l

RT: 9.110 min Scan# 1316

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

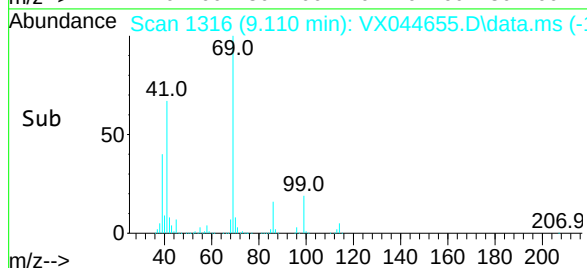
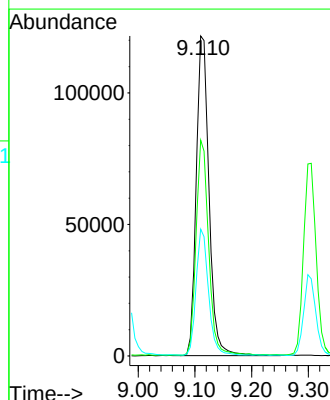
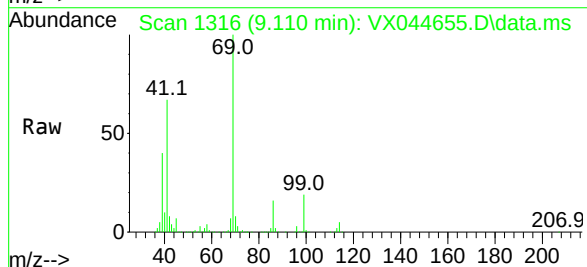
Tgt Ion: 69 Resp: 190986

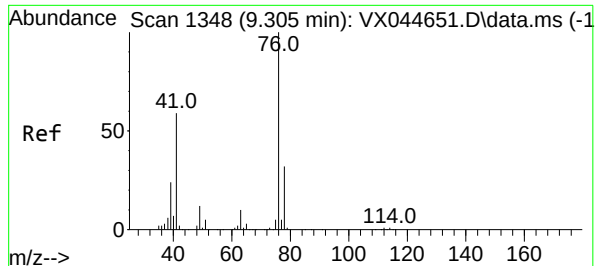
Ion Ratio Lower Upper

69 100

41 66.0 53.2 79.8

39 38.4 30.2 45.2





#57

1,3-Dichloropropane

Concen: 50.129 ug/l

RT: 9.305 min Scan# 1172

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 76 Resp: 18740

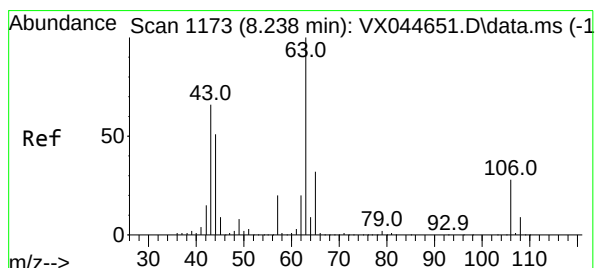
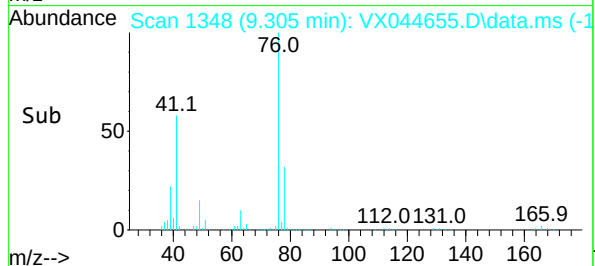
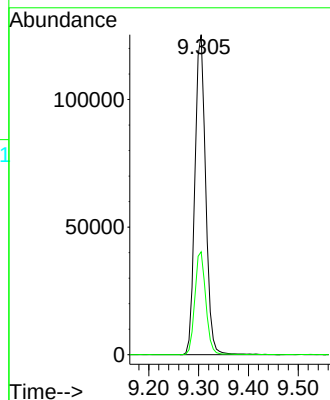
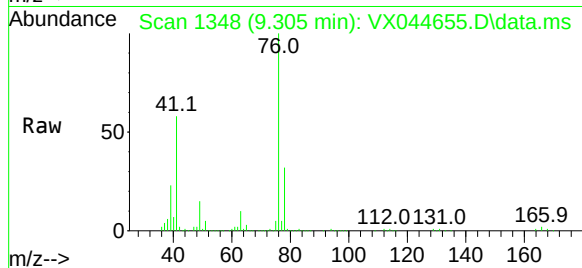
Ion Ratio Lower Upper

76 100

78 32.9 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#58

2-Chloroethyl Vinyl ether

Concen: 251.852 ug/l

RT: 8.232 min Scan# 1172

Delta R.T. -0.006 min

Lab File: VX044655.D

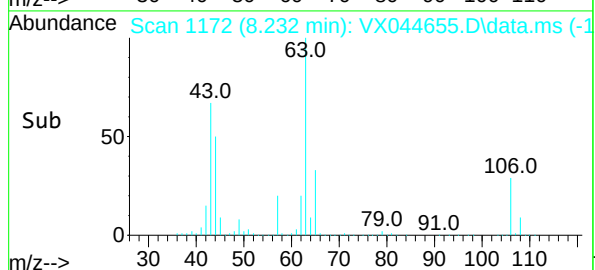
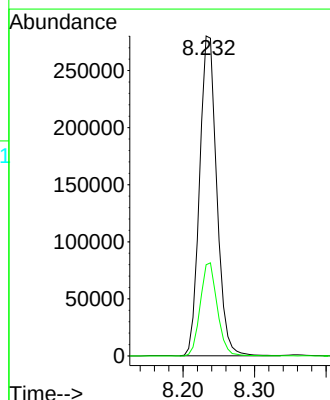
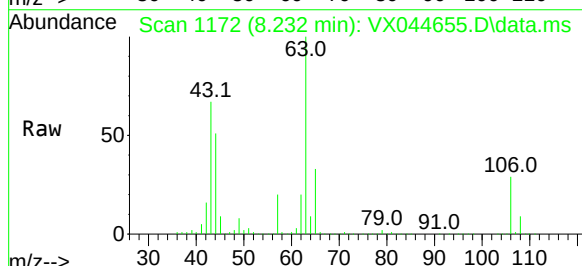
Acq: 15 Jan 2025 15:15

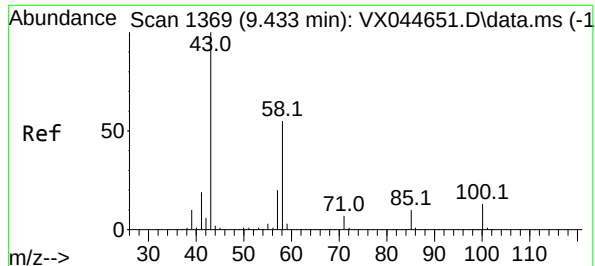
Tgt Ion: 63 Resp: 466737

Ion Ratio Lower Upper

63 100

106 28.9 23.0 34.6





#59

2-Hexanone

Concen: 253.010 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion: 43 Resp: 576549

Ion Ratio Lower Upper

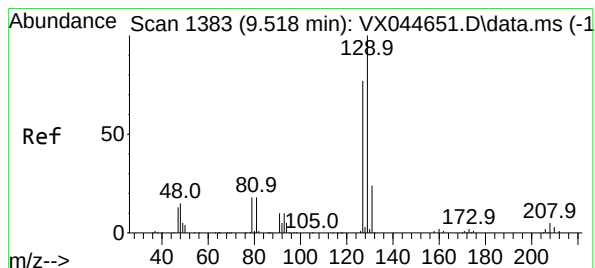
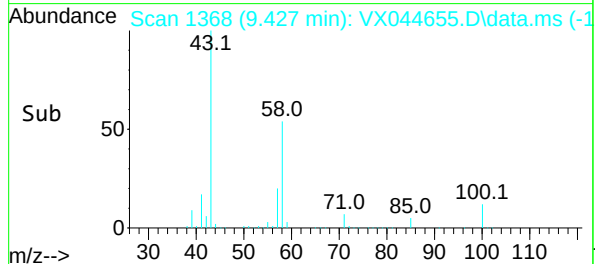
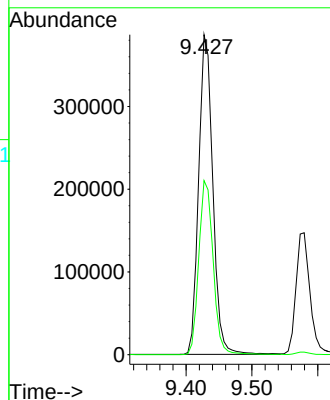
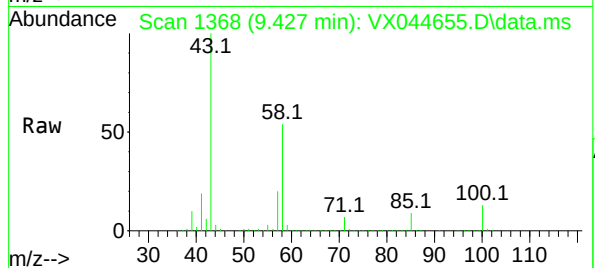
43 100

58 55.4 27.8 83.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#60

Dibromochloromethane

Concen: 49.957 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044655.D

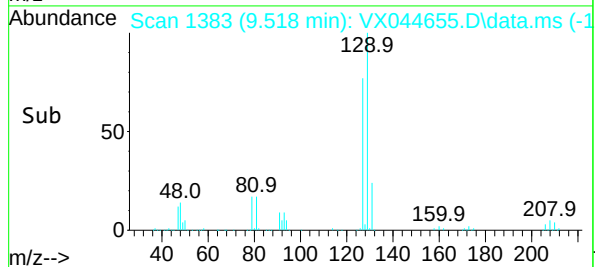
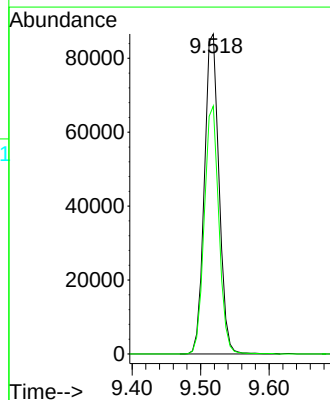
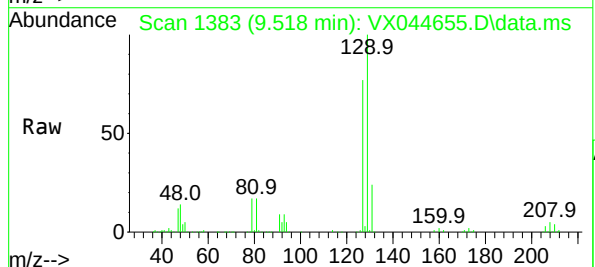
Acq: 15 Jan 2025 15:15

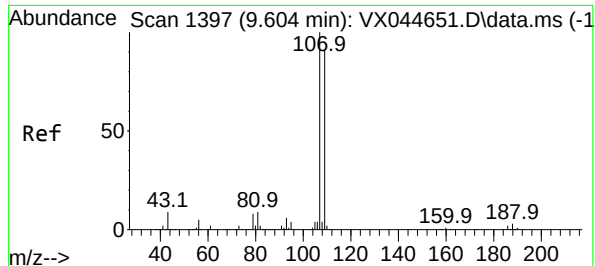
Tgt Ion:129 Resp: 128727

Ion Ratio Lower Upper

129 100

127 77.2 38.5 115.5





#61

1,2-Dibromoethane

Concen: 49.693 ug/l

RT: 9.604 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion:107 Resp: 114330

Ion Ratio Lower Upper

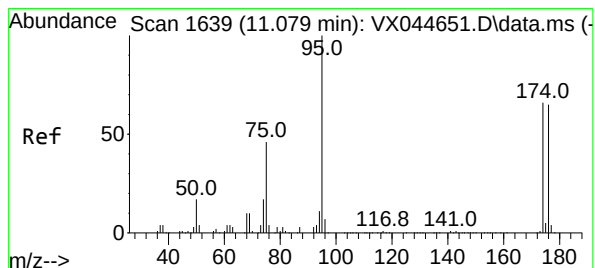
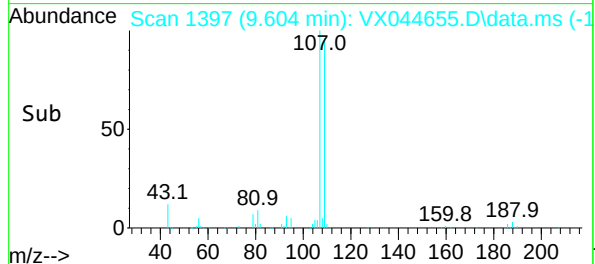
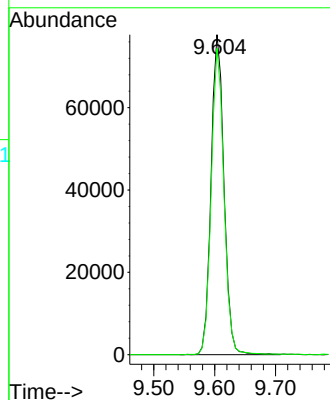
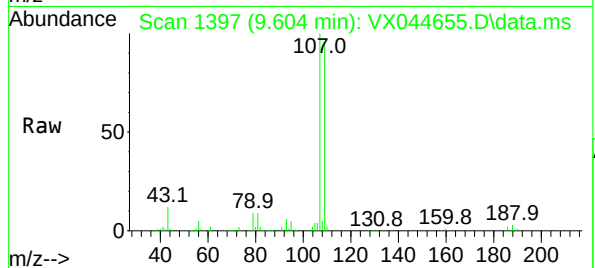
107 100

109 94.5 75.3 112.9

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#62

4-Bromofluorobenzene

Concen: 52.693 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

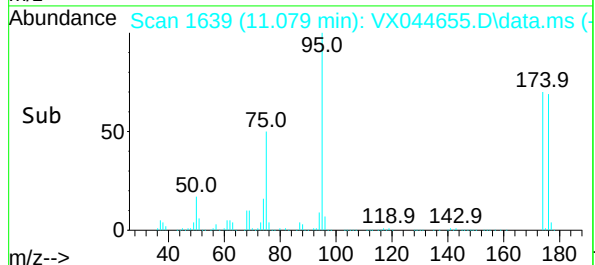
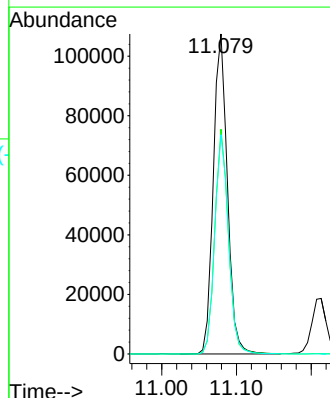
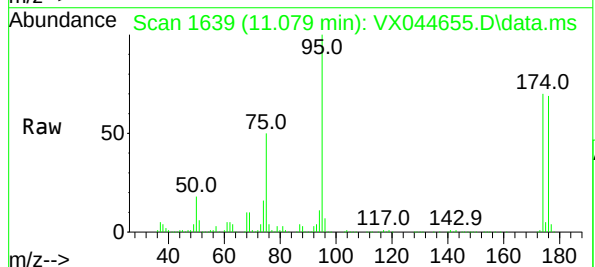
Tgt Ion: 95 Resp: 140770

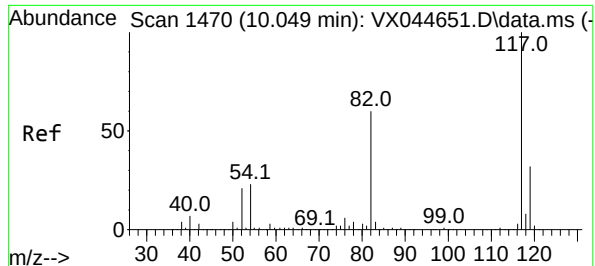
Ion Ratio Lower Upper

95 100

174 67.6 0.0 133.0

176 67.1 0.0 129.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX011525

Tgt Ion:117 Resp: 266872

Ion Ratio Lower Upper

117 100

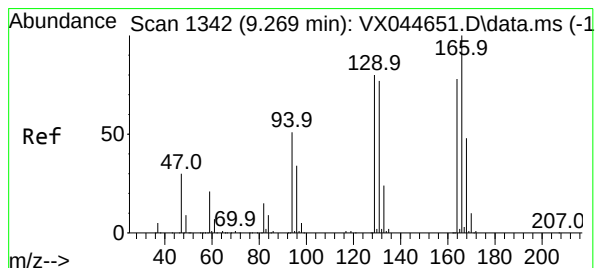
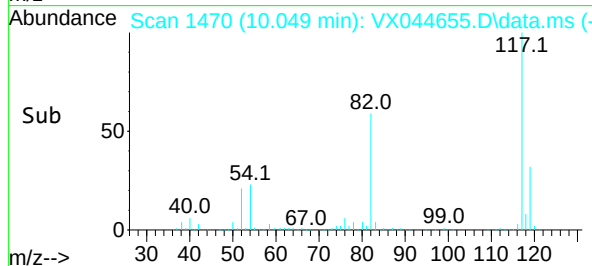
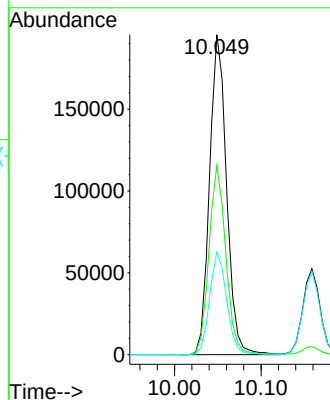
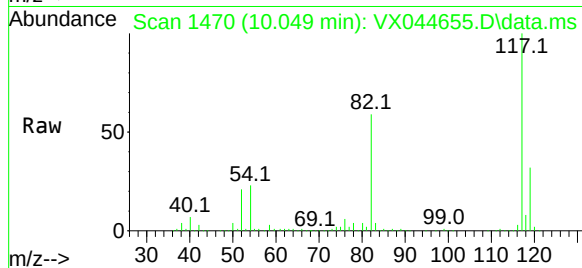
82 59.1 47.6 71.4

119 32.1 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
 Supervised By :Semsettin Yesilyurt 01/16/2025



#64

Tetrachloroethene

Concen: 53.384 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Tgt Ion:164 Resp: 89460

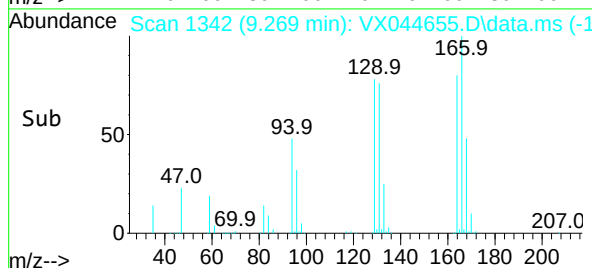
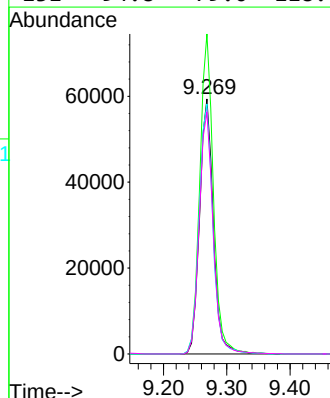
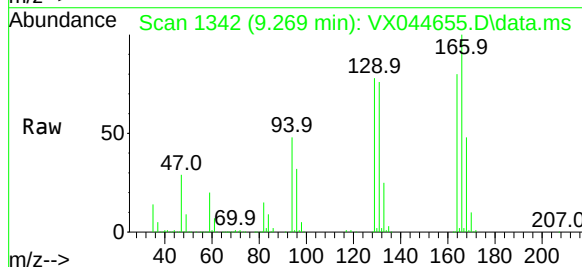
Ion Ratio Lower Upper

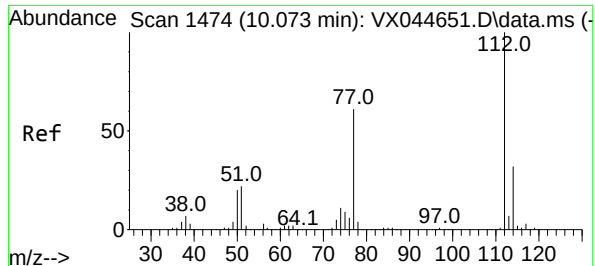
164 100

166 125.5 102.0 153.0

129 98.0 81.1 121.7

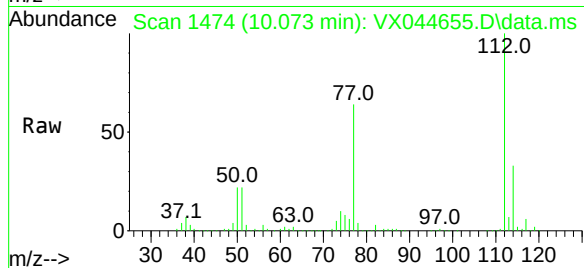
131 94.8 79.0 118.6





#65
Chlorobenzene
Concen: 50.667 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

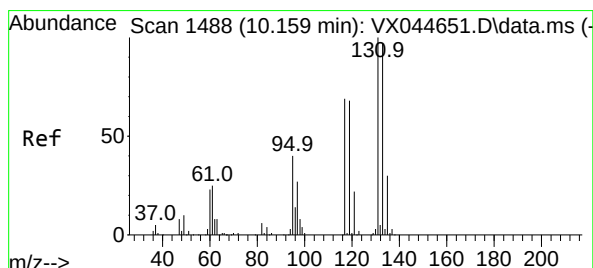
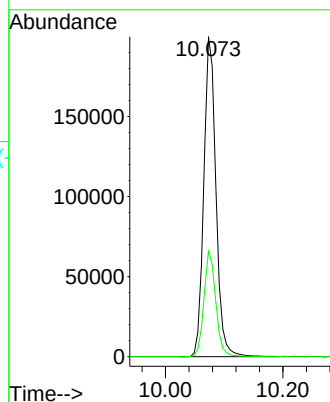
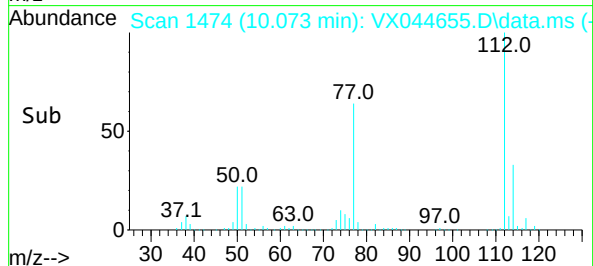
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion:112 Resp: 28720
Ion Ratio Lower Upper
112 100
114 32.9 25.3 37.9

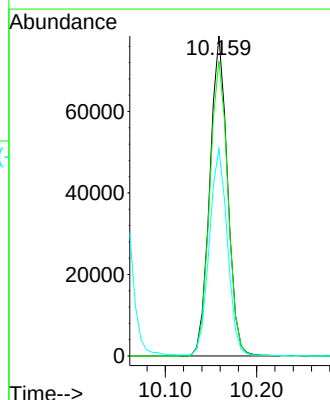
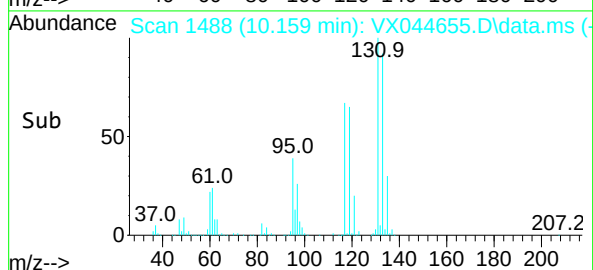
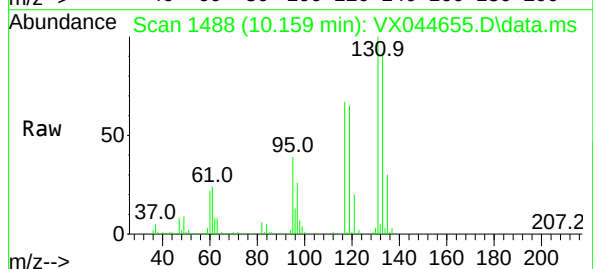
Manual Integrations
APPROVED

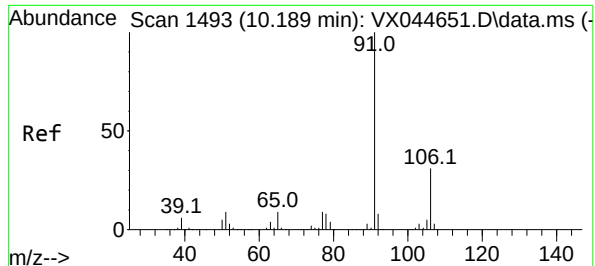
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 51.129 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:131 Resp: 105329
Ion Ratio Lower Upper
131 100
133 94.8 47.8 143.3
119 66.5 33.4 100.2





#67

Ethyl Benzene

Concen: 51.721 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX011525

Tgt Ion: 91 Resp: 511560

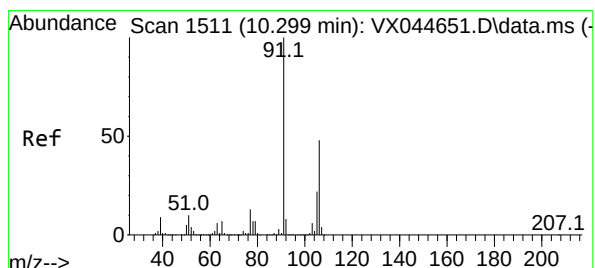
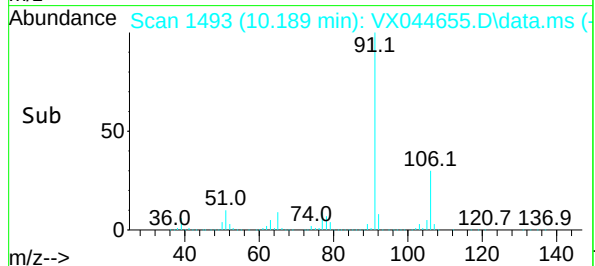
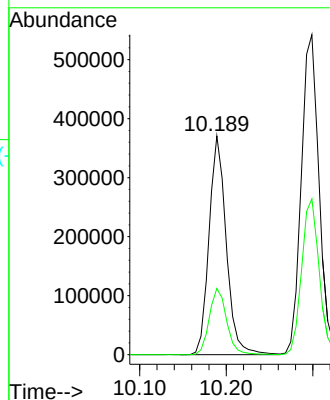
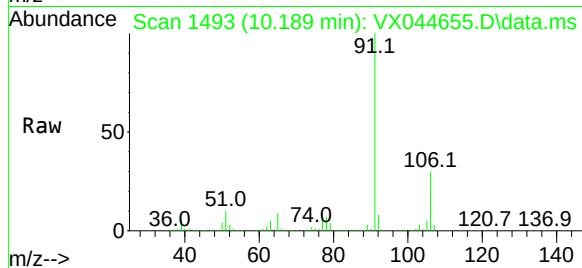
Ion Ratio Lower Upper

91 100

106 30.3 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#68

m/p-Xylenes

Concen: 102.645 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044655.D

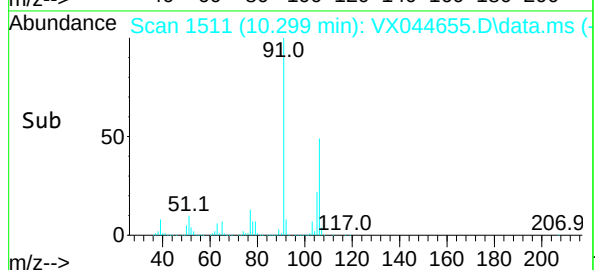
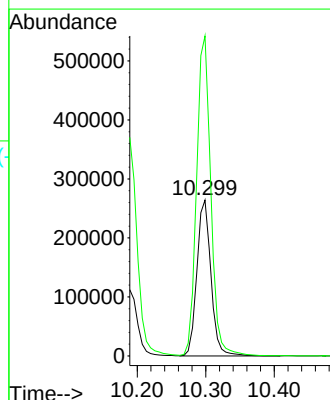
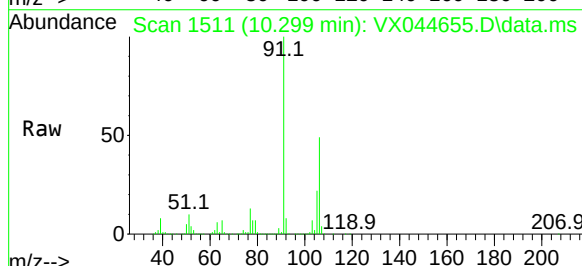
Acq: 15 Jan 2025 15:15

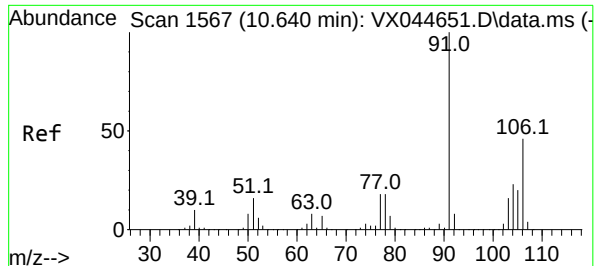
Tgt Ion:106 Resp: 376743

Ion Ratio Lower Upper

106 100

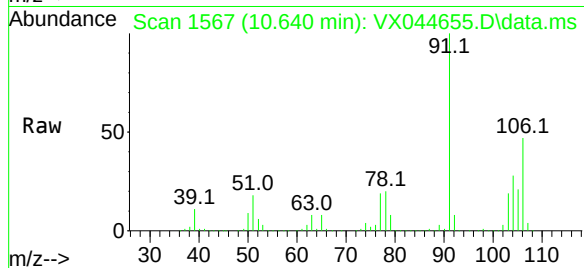
91 207.7 166.4 249.6





#69
o-Xylene
Concen: 50.378 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

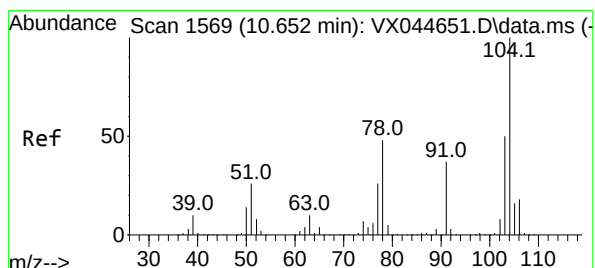
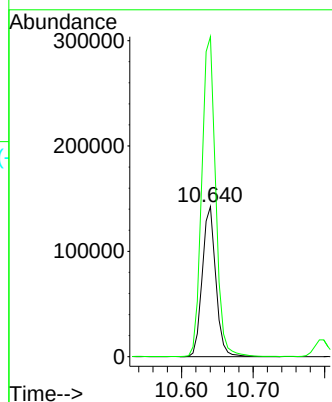
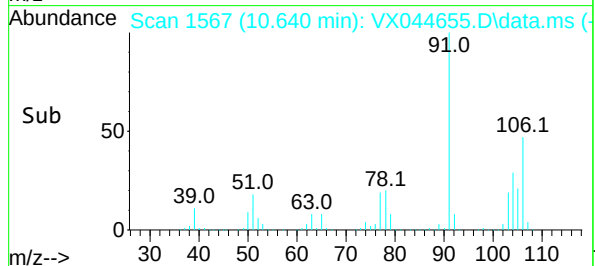
Instrument :
MSVOA_X
ClientSampleId :
ICVX011525



Tgt Ion:106 Resp: 18699
Ion Ratio Lower Upper
106 100
91 219.3 108.7 326.3

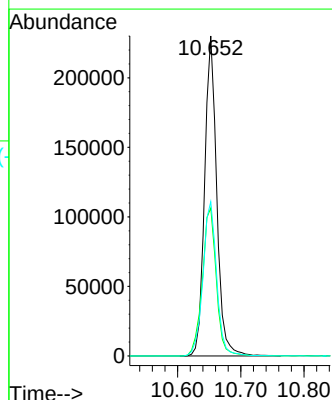
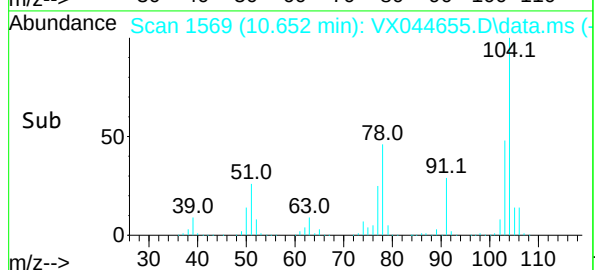
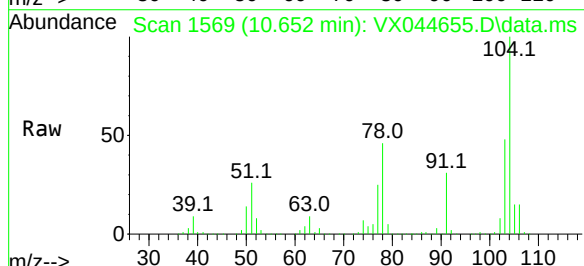
Manual Integrations
APPROVED

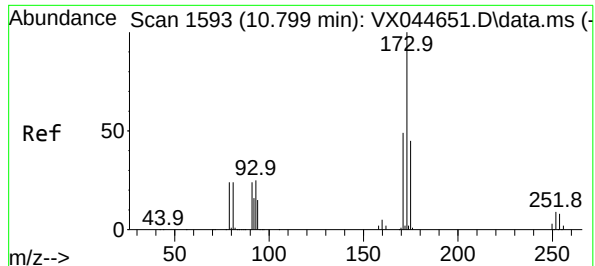
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#70
Styrene
Concen: 51.398 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

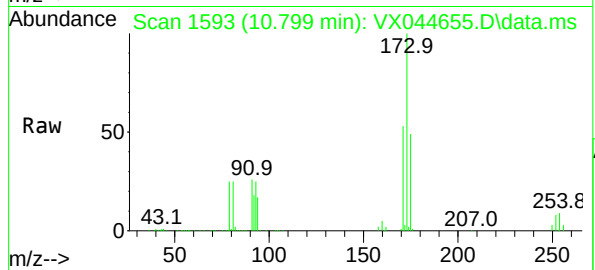
Tgt Ion:104 Resp: 308018
Ion Ratio Lower Upper
104 100
78 53.4 43.0 64.6
103 54.4 43.4 65.2





#71
Bromoform
Concen: 51.597 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

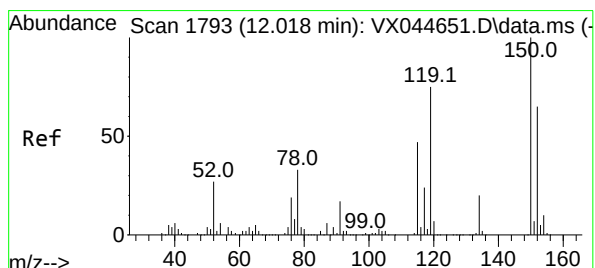
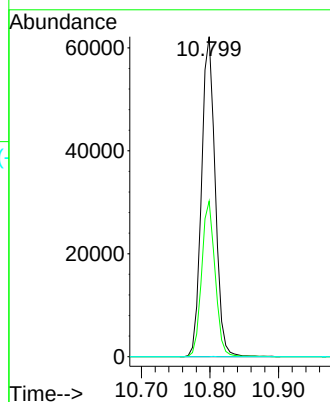
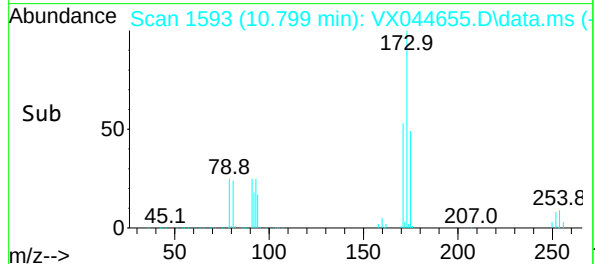
Instrument :
MSVOA_X
ClientSampleId :
ICVX011525



Tgt Ion:173 Resp: 86512
Ion Ratio Lower Upper
173 100
175 47.9 23.6 70.8
254 0.0 0.1 0.1

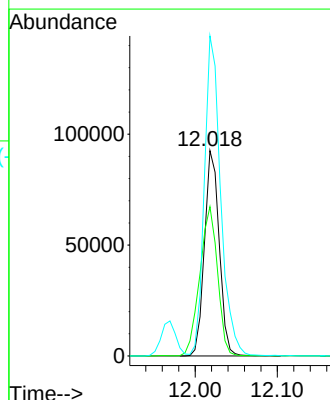
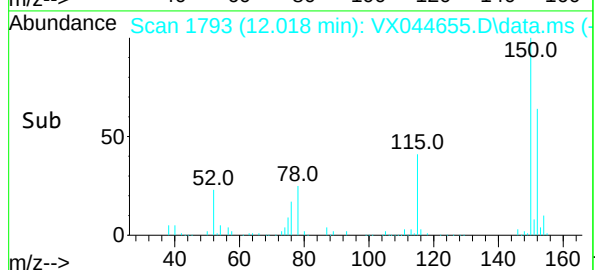
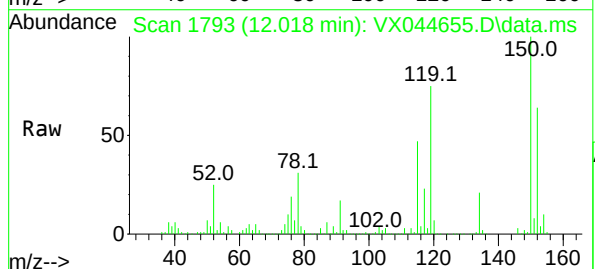
Manual Integrations
APPROVED

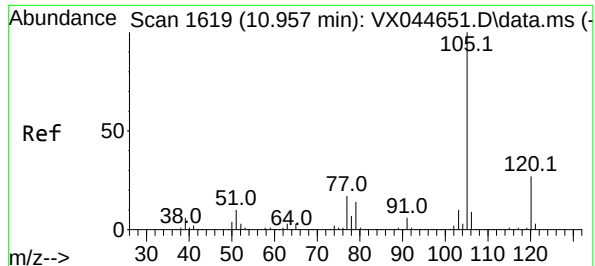
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

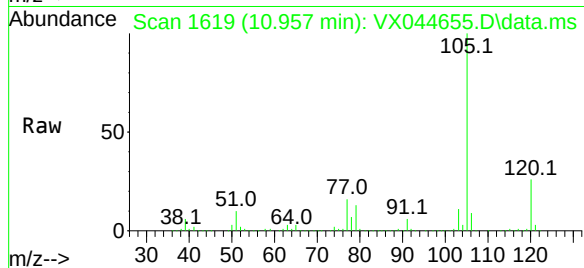
Tgt Ion:152 Resp: 115489
Ion Ratio Lower Upper
152 100
115 87.0 43.8 131.4
150 171.8 0.0 347.8





#73
Isopropylbenzene
Concen: 50.246 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

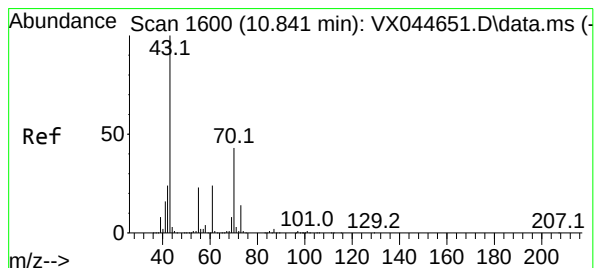
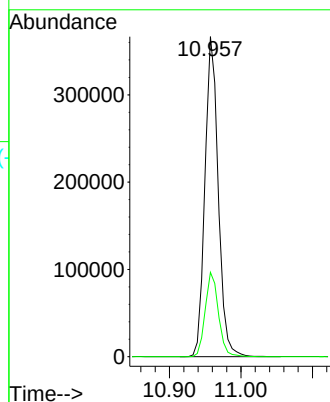
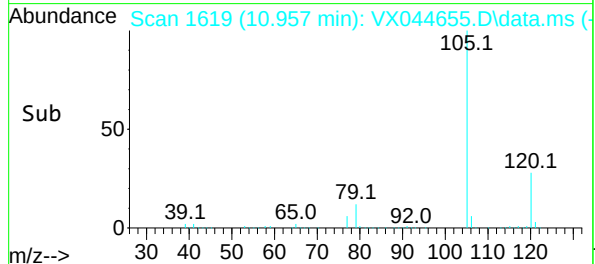
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion:105 Resp: 47405
Ion Ratio Lower Upper
105 100
120 26.2 13.2 39.6

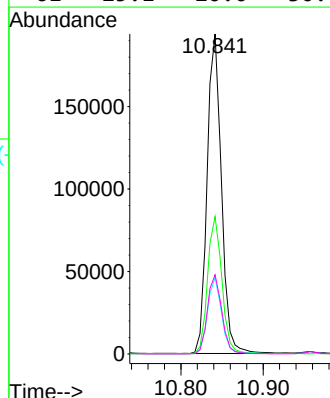
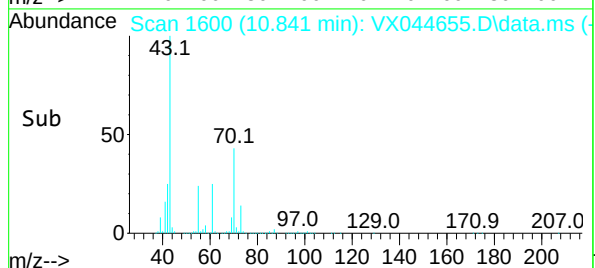
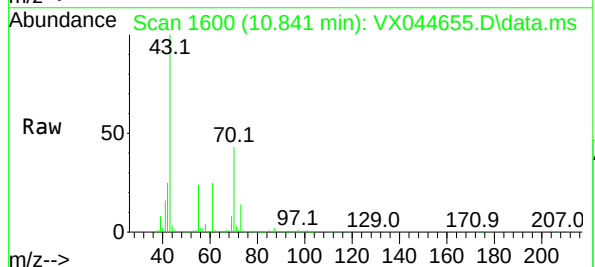
Manual Integrations
APPROVED

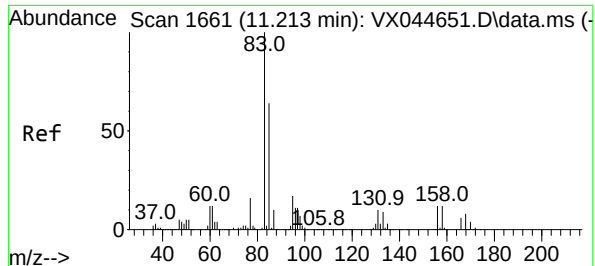
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#74
N-ethyl acetate
Concen: 50.177 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

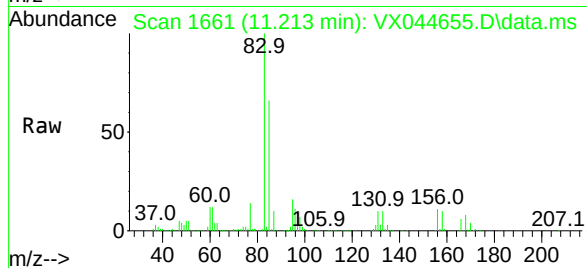
Tgt Ion: 43 Resp: 233338
Ion Ratio Lower Upper
43 100
70 43.2 35.2 52.8
55 23.6 19.0 28.4
61 25.1 20.0 30.0





#75
1,1,2,2-Tetrachloroethane
Concen: 49.002 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

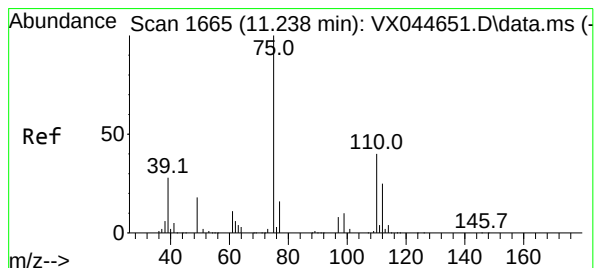
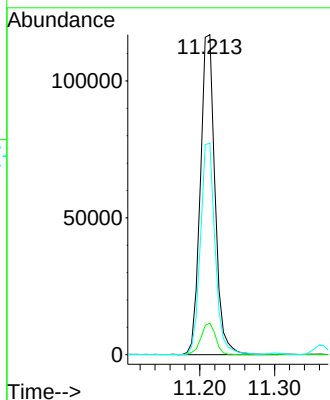
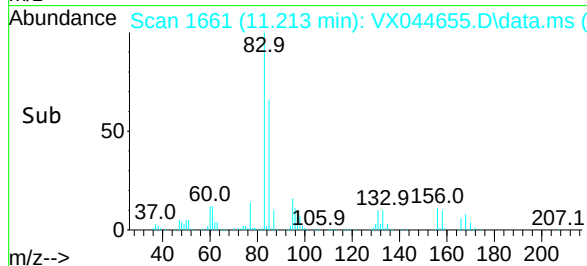
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion: 83 Resp: 15967
Ion Ratio Lower Upper
83 100
131 9.9 5.0 14.9
85 66.2 32.0 96.2

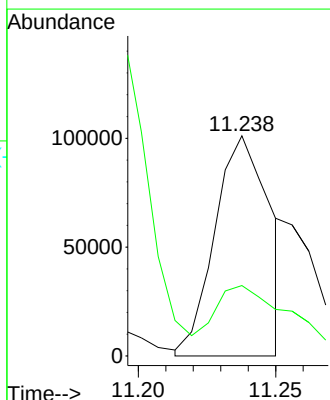
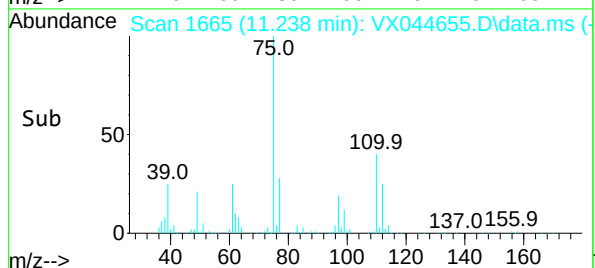
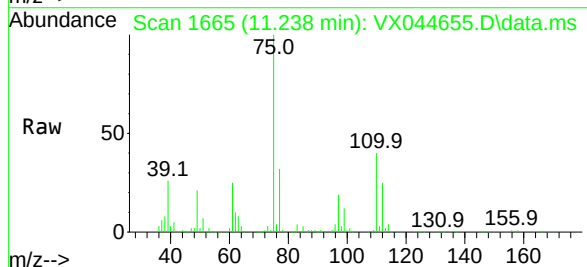
Manual Integrations
APPROVED

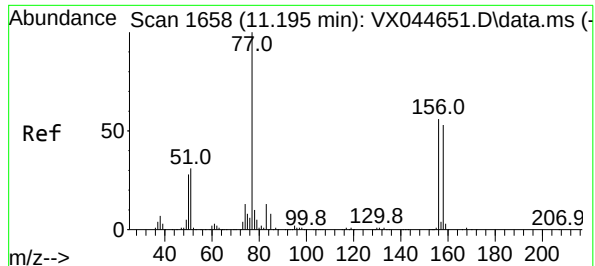
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#76
1,2,3-Trichloropropane
Concen: 50.004 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

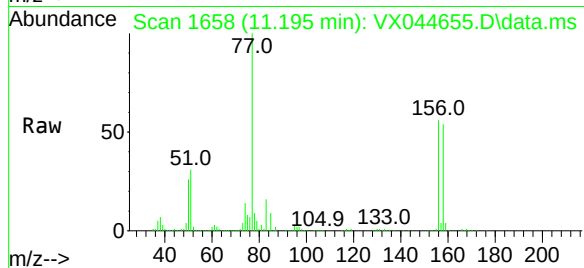
Tgt Ion: 75 Resp: 140149
Ion Ratio Lower Upper
75 100
77 44.9 23.4 70.2





#77
Bromobenzene
Concen: 49.506 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

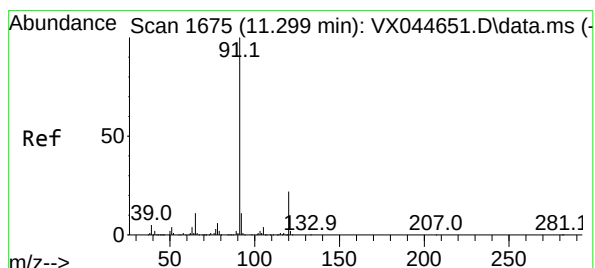
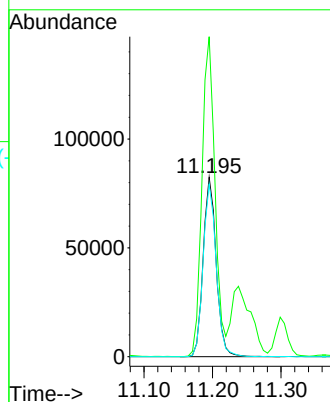
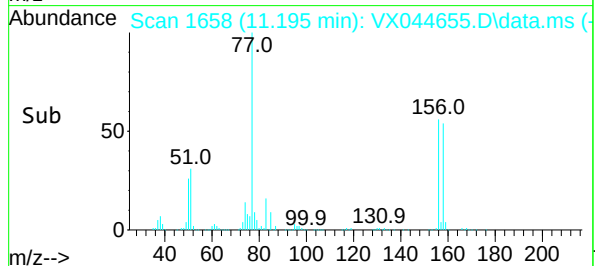
Instrument :
MSVOA_X
ClientSampleId :
ICVX011525



Tgt Ion: 156 Resp: 10917
Ion Ratio Lower Upper
156 100
77 178.2 90.3 271.0
158 97.0 48.4 145.3

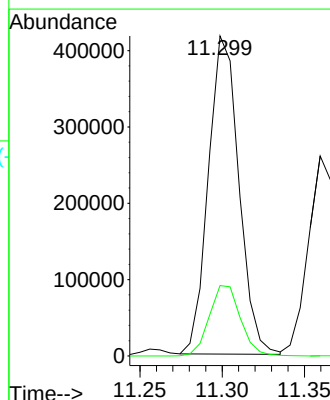
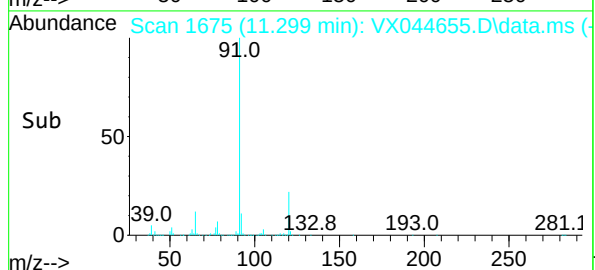
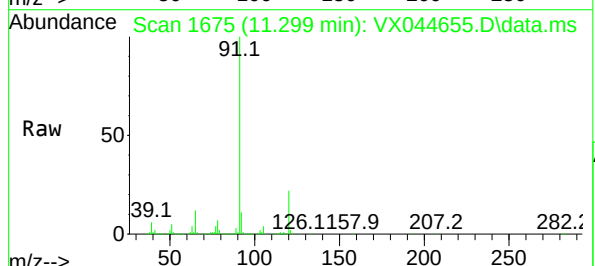
Manual Integrations
APPROVED

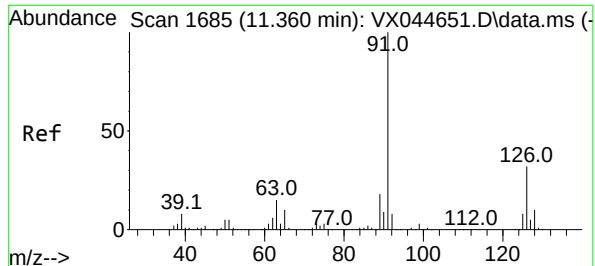
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#78
n-propylbenzene
Concen: 51.712 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

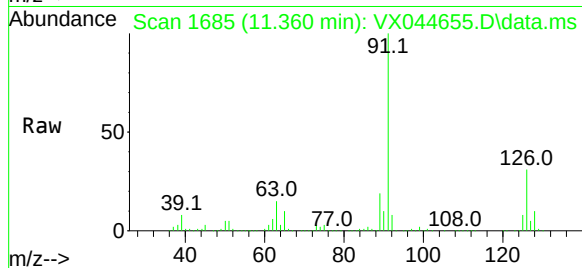
Tgt Ion: 91 Resp: 538048
Ion Ratio Lower Upper
91 100
120 22.7 11.4 34.1





#79
2-Chlorotoluene
Concen: 49.678 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

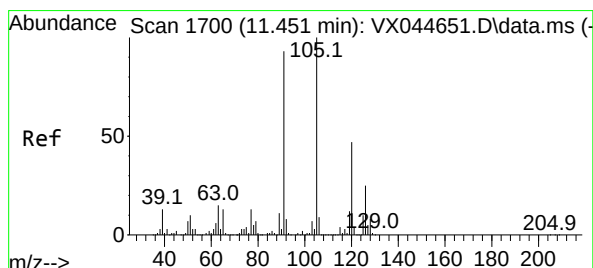
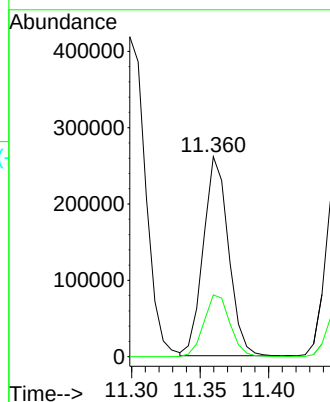
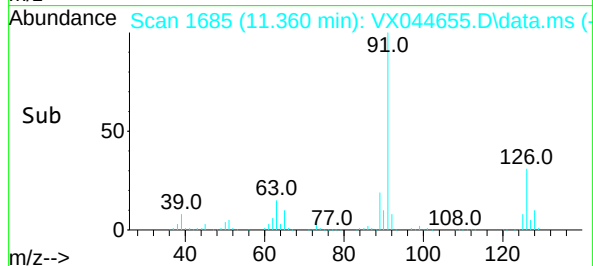
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion: 91 Resp: 33389
Ion Ratio Lower Upper
91 100
126 32.3 16.2 48.5

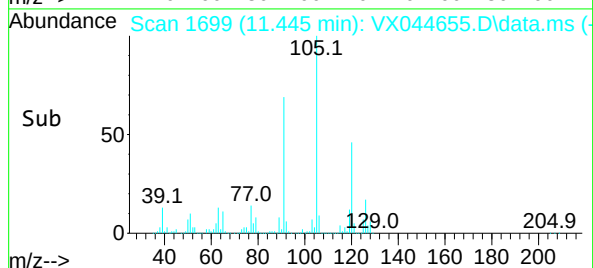
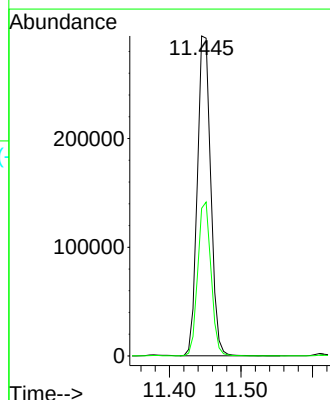
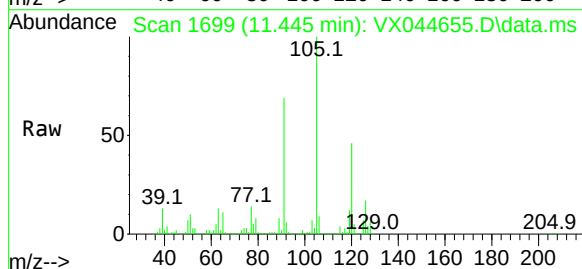
Manual Integrations
APPROVED

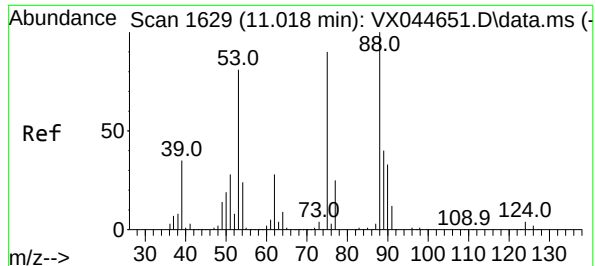
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#80
1,3,5-Trimethylbenzene
Concen: 49.852 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

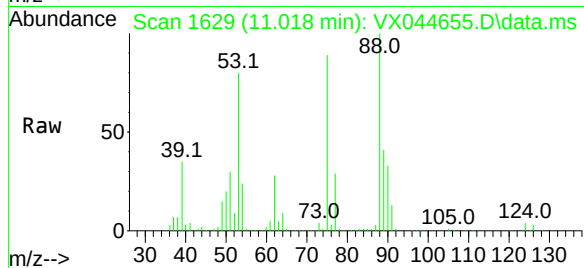
Tgt Ion:105 Resp: 382880
Ion Ratio Lower Upper
105 100
120 47.6 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 51.981 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

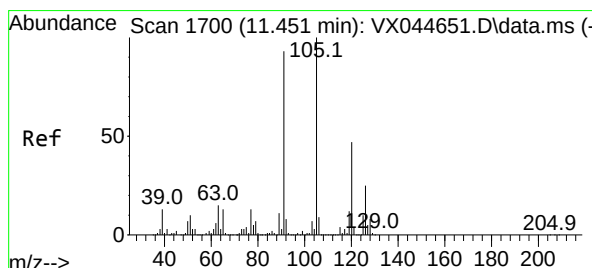
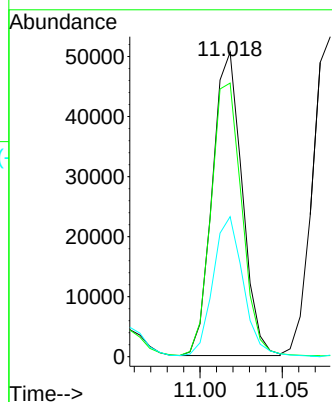
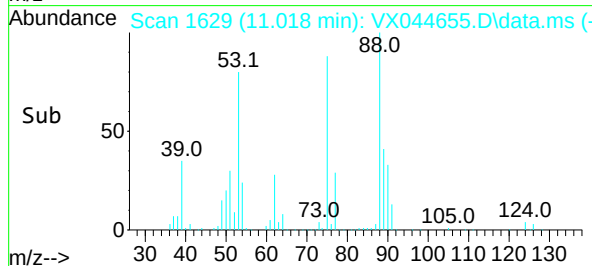
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion: 75 Resp: 63708
Ion Ratio Lower Upper
75 100
53 93.1 74.3 111.5
89 47.1 37.4 56.0

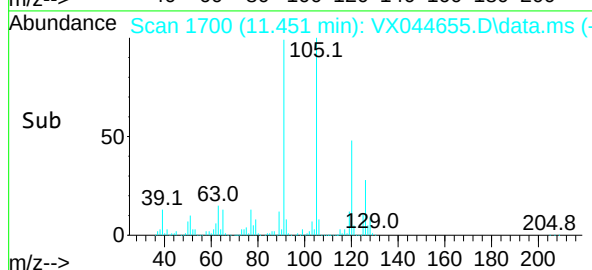
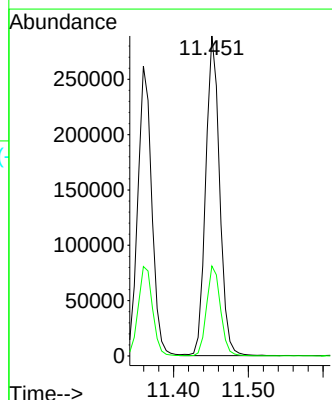
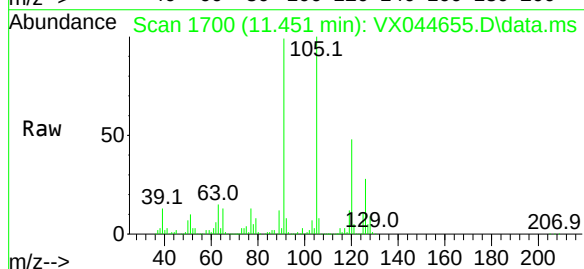
Manual Integrations
APPROVED

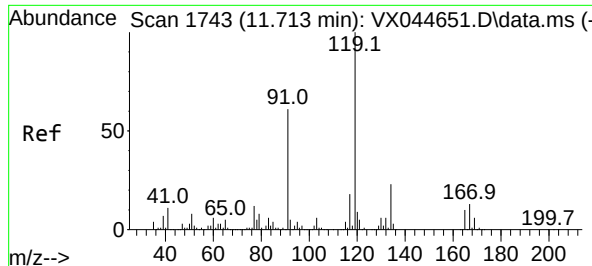
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#82
4-Chlorotoluene
Concen: 50.750 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

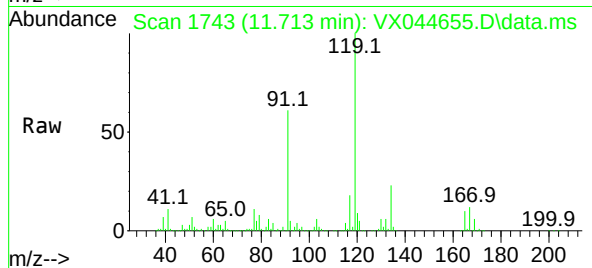
Tgt Ion: 91 Resp: 373655
Ion Ratio Lower Upper
91 100
126 28.1 13.9 41.7





#83
tert-Butylbenzene
Concen: 49.459 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

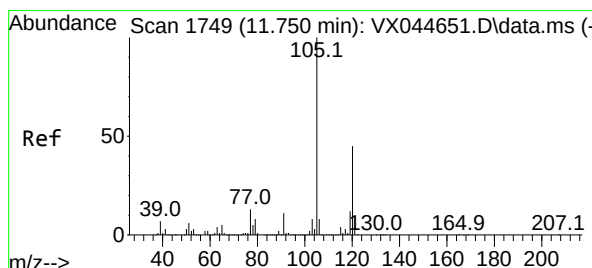
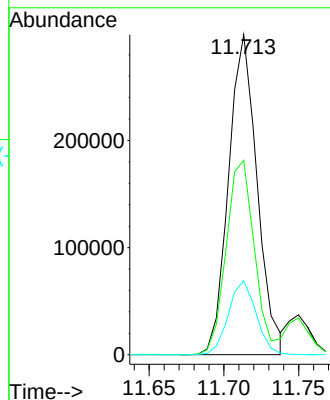
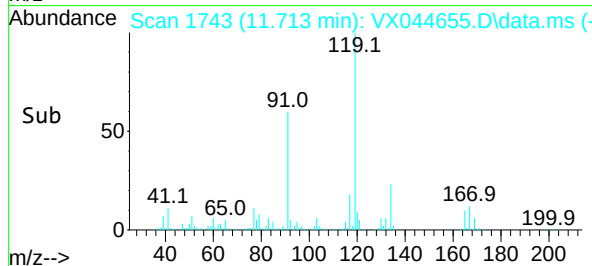
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



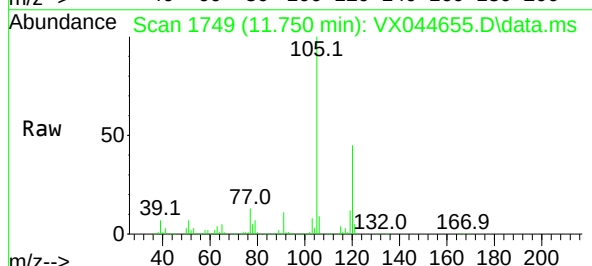
Tgt Ion:119 Resp: 39719
Ion Ratio Lower Upper
119 100
91 60.8 30.0 90.0
134 22.4 11.2 33.5

Manual Integrations
APPROVED

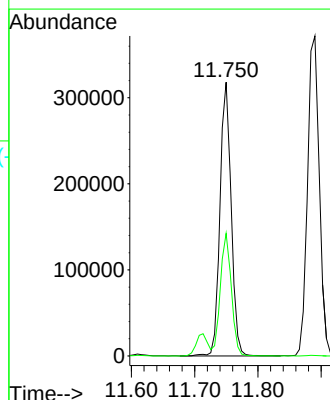
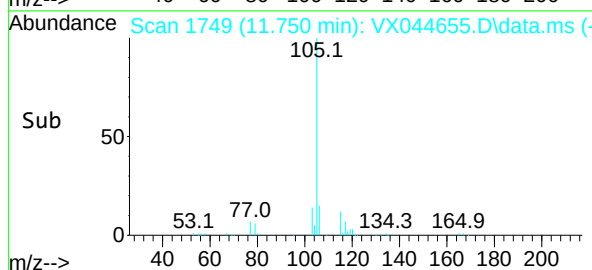
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

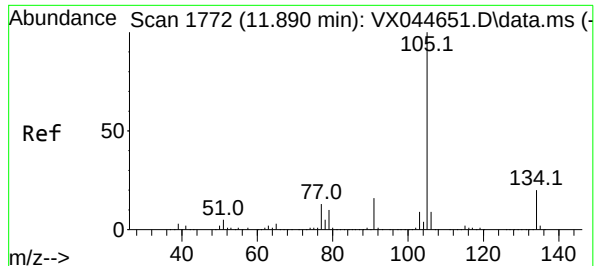


#84
1,2,4-Trimethylbenzene
Concen: 49.714 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15



Tgt Ion:105 Resp: 388010
Ion Ratio Lower Upper
105 100
120 44.2 22.2 66.6





#85

sec-Butylbenzene

Concen: 51.076 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVVX011525

Tgt Ion:105 Resp: 47759

Ion Ratio Lower Upper

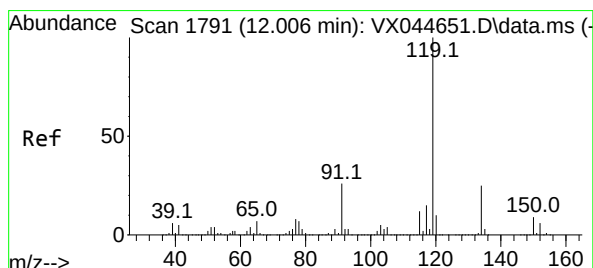
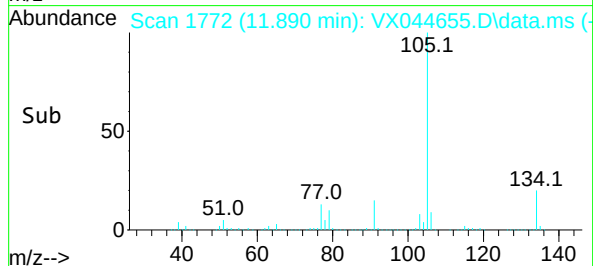
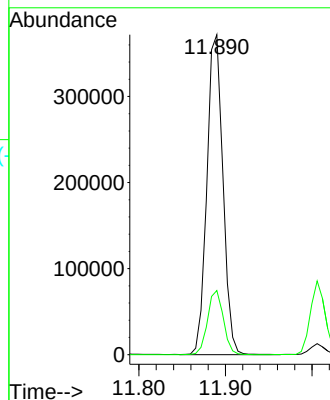
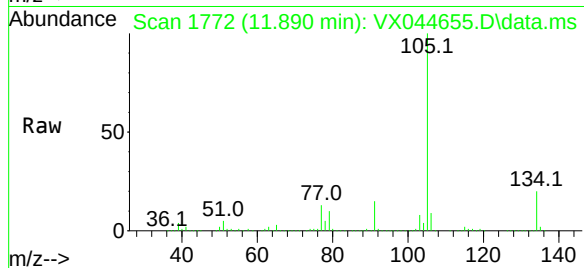
105 100

134 19.8 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#86

p-Isopropyltoluene

Concen: 51.028 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

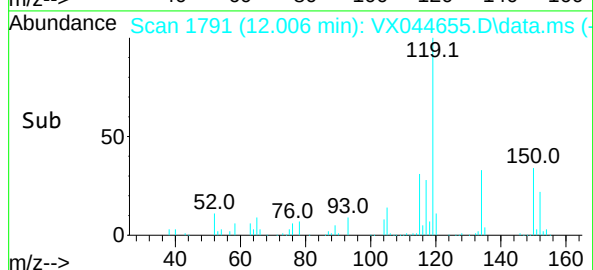
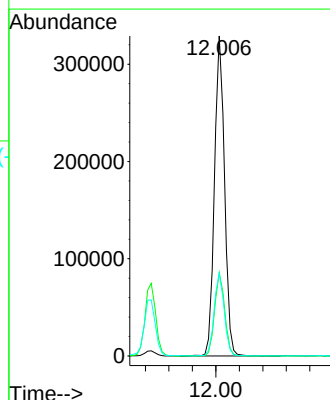
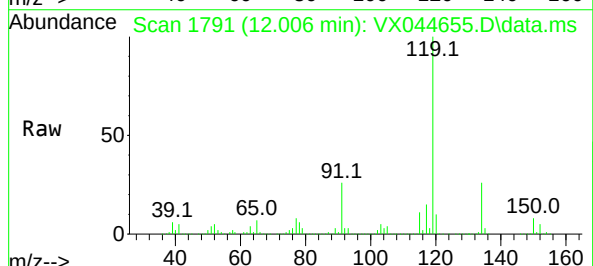
Tgt Ion:119 Resp: 392123

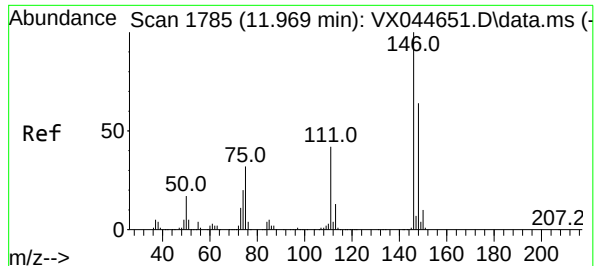
Ion Ratio Lower Upper

119 100

134 26.0 12.8 38.4

91 25.6 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 51.476 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

ICVX011525

Tgt Ion:146 Resp: 196862

Ion Ratio Lower Upper

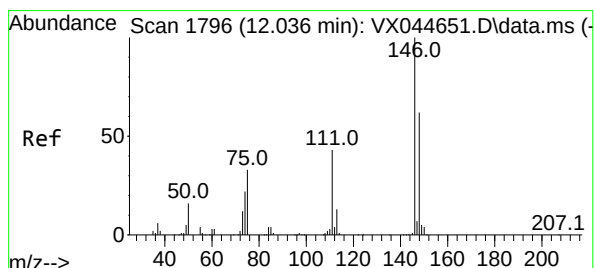
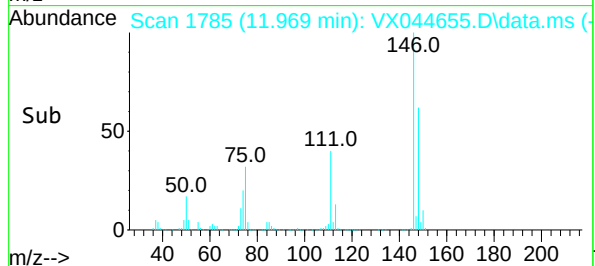
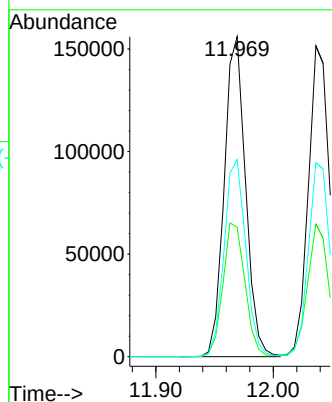
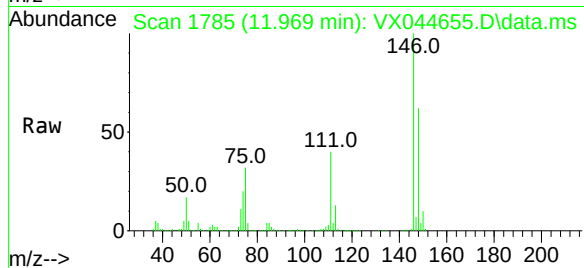
146 100

111 43.4 21.9 65.7

148 62.9 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

#88

1,4-Dichlorobenzene

Concen: 50.011 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

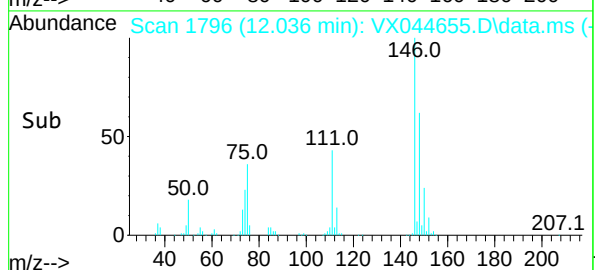
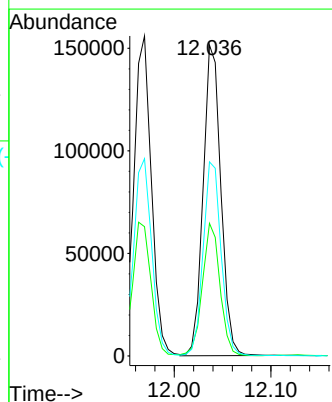
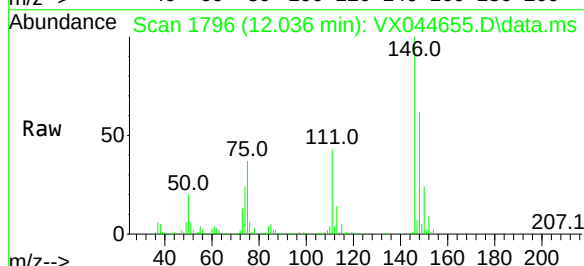
Tgt Ion:146 Resp: 193343

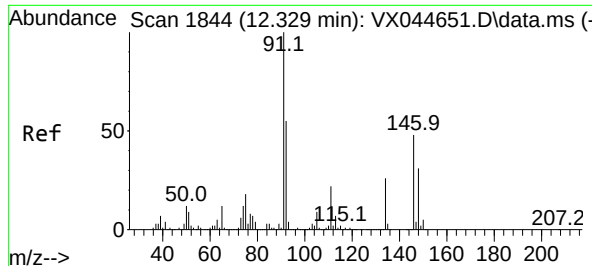
Ion Ratio Lower Upper

146 100

111 42.3 21.5 64.5

148 63.7 32.1 96.5





#89

n-Butylbenzene

Concen: 53.136 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

Instrument :

MSVOA_X

ClientSampleId :

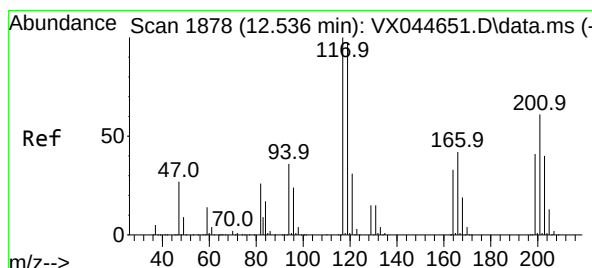
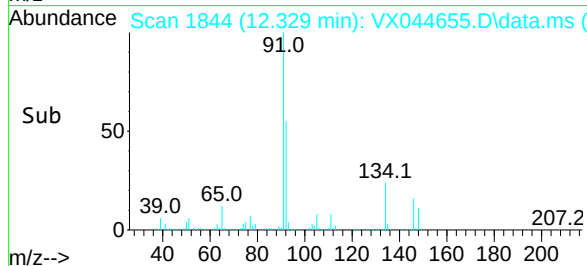
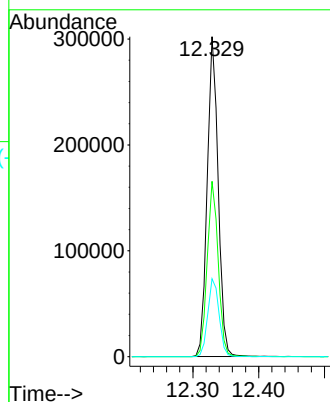
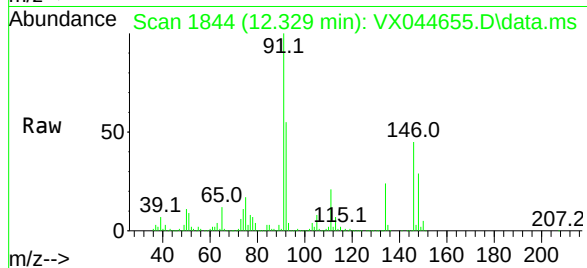
ICVX011525

Tgt Ion:	91	Resp:	350704
Ion	Ratio	Lower	Upper
91	100		
92	55.0	27.4	82.0
134	25.1	12.8	38.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#90

Hexachloroethane

Concen: 48.518 ug/l

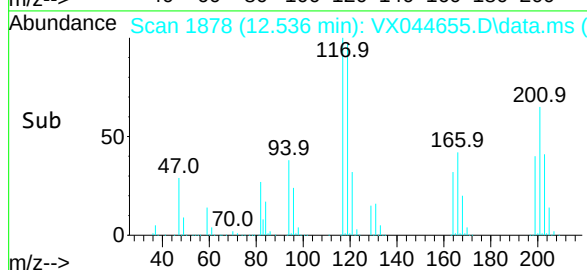
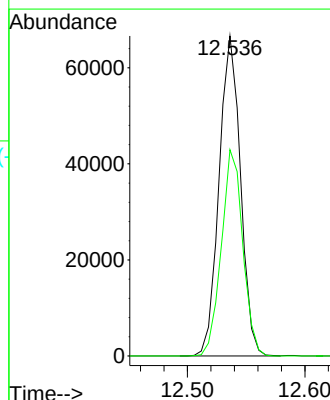
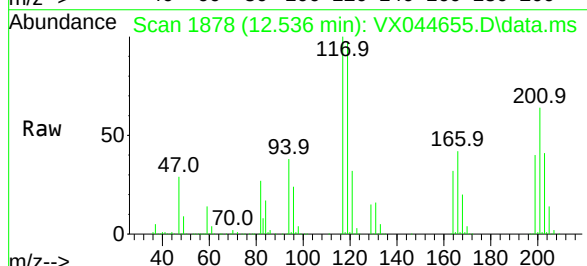
RT: 12.536 min Scan# 1878

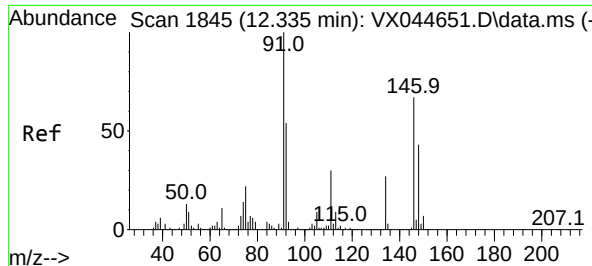
Delta R.T. 0.000 min

Lab File: VX044655.D

Acq: 15 Jan 2025 15:15

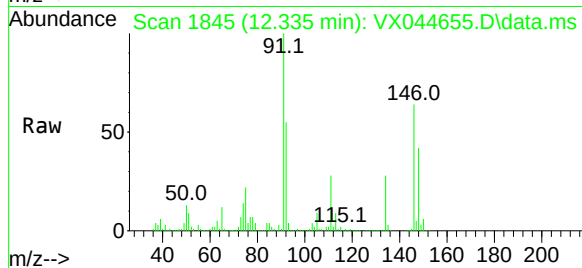
Tgt Ion:	117	Resp:	84427
Ion	Ratio	Lower	Upper
117	100		
201	64.4	32.3	96.8





#91
1,2-Dichlorobenzene
Concen: 49.430 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

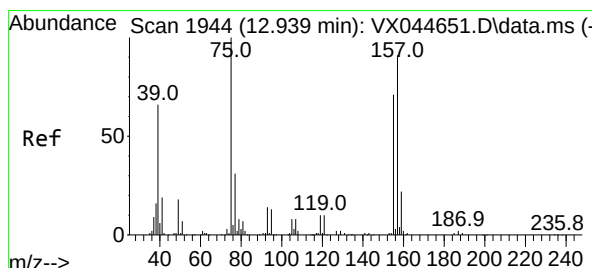
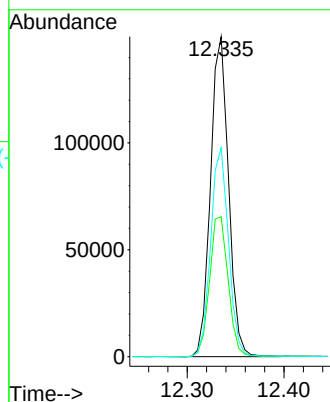
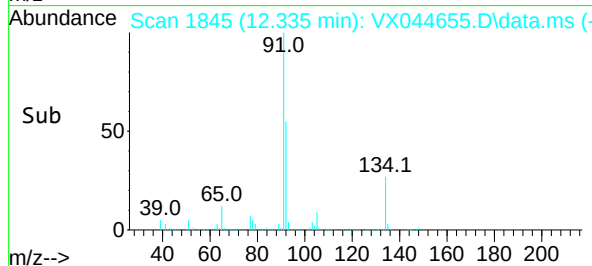
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion:146 Resp: 194138
Ion Ratio Lower Upper
146 100
111 45.4 22.4 67.2
148 64.9 31.6 94.8

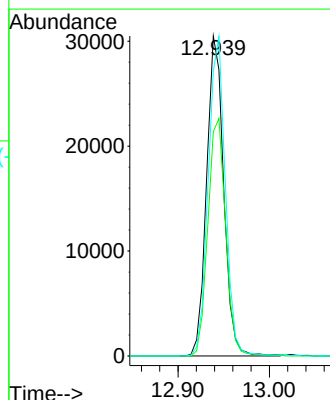
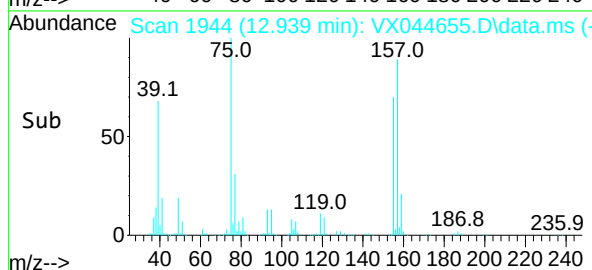
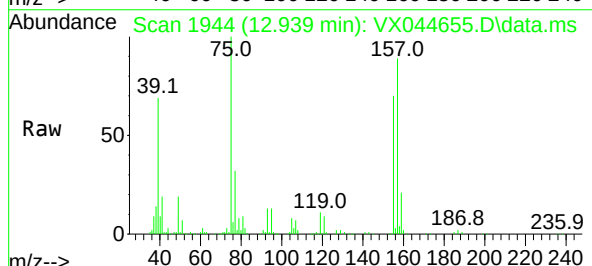
Manual Integrations
APPROVED

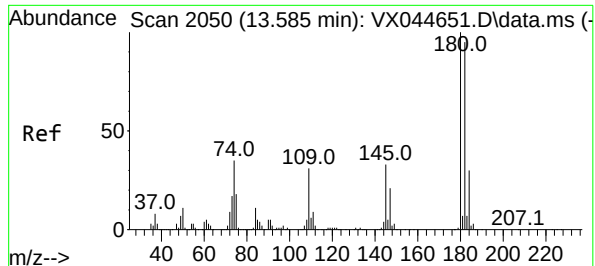
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.672 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

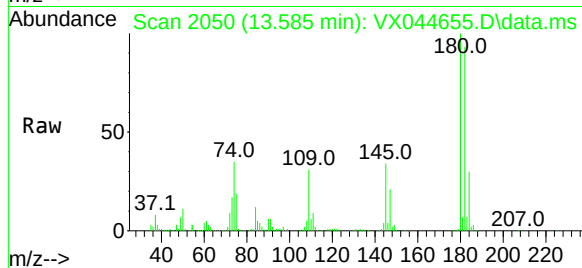
Tgt Ion: 75 Resp: 39583
Ion Ratio Lower Upper
75 100
155 76.9 39.0 116.9
157 99.4 49.9 149.7





#93
1,2,4-Trichlorobenzene
Concen: 53.362 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

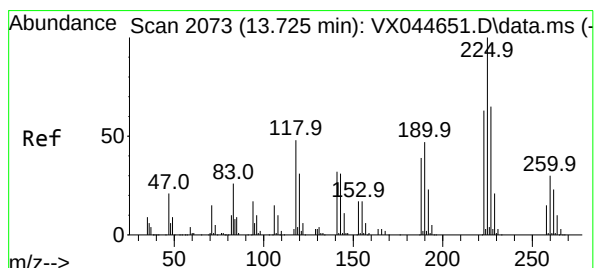
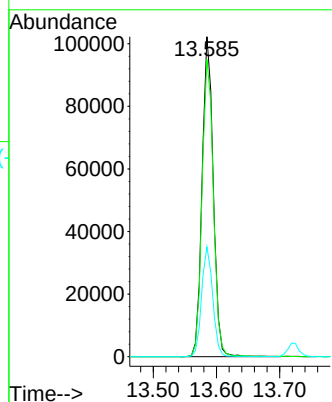
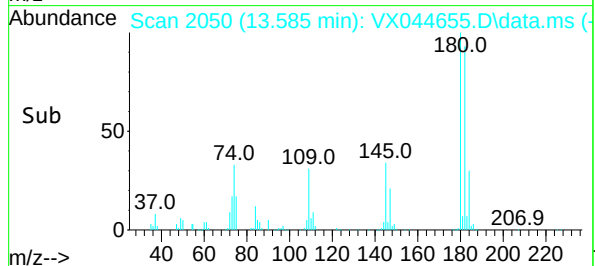
Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525



Tgt Ion:180 Resp: 125280
Ion Ratio Lower Upper
180 100
182 94.5 47.4 142.2
145 34.3 16.7 50.1

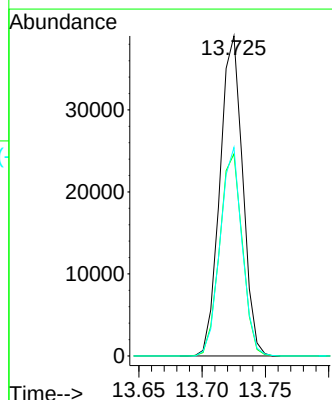
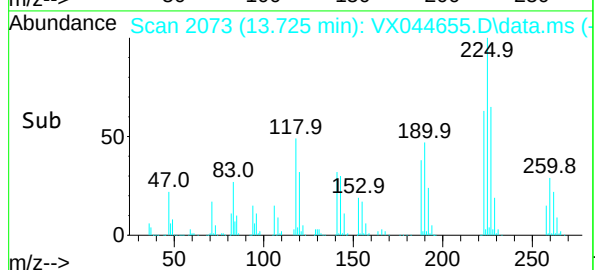
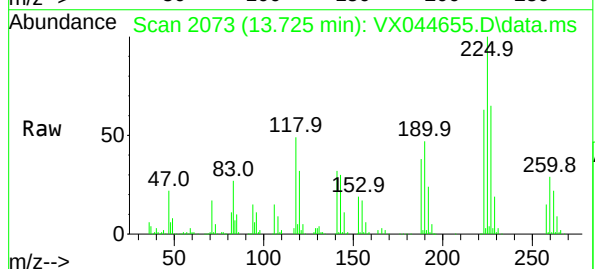
Manual Integrations
APPROVED

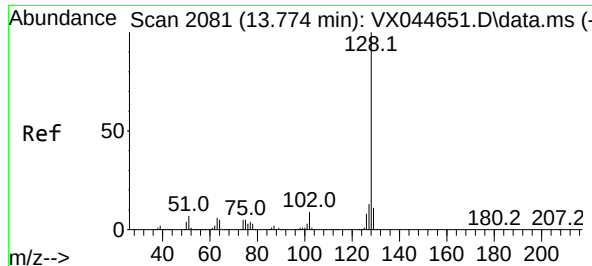
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#94
Hexachlorobutadiene
Concen: 52.807 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

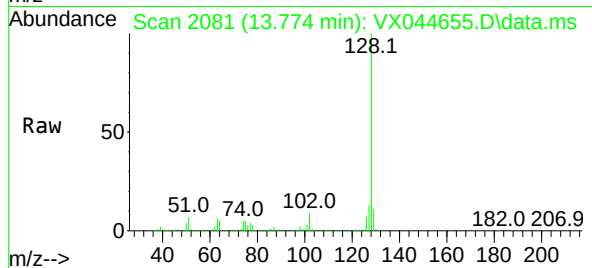
Tgt Ion:225 Resp: 48702
Ion Ratio Lower Upper
225 100
223 62.9 31.9 95.7
227 63.0 31.8 95.4





#95
Naphthalene
Concen: 52.899 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

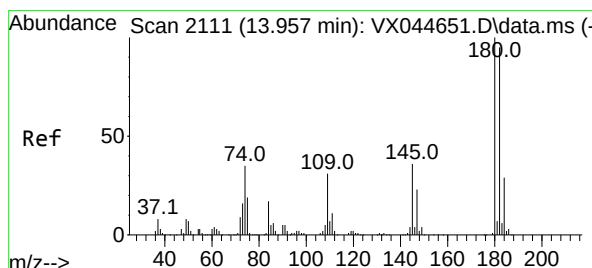
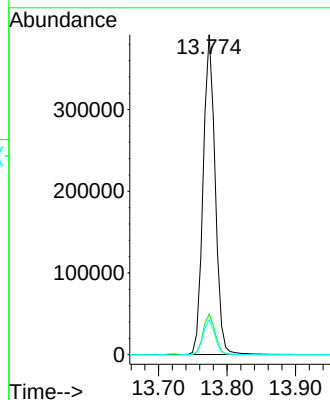
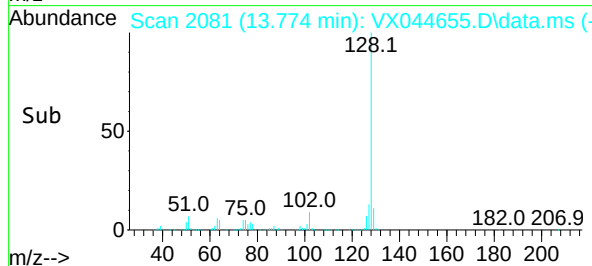
Instrument :
MSVOA_X
ClientSampleId :
ICVX011525



Tgt Ion:128 Resp: 479024
Ion Ratio Lower Upper
128 100
127 12.7 10.3 15.5
129 10.9 8.7 13.1

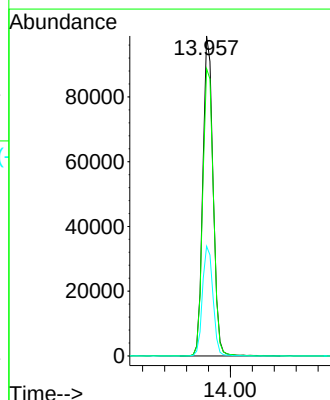
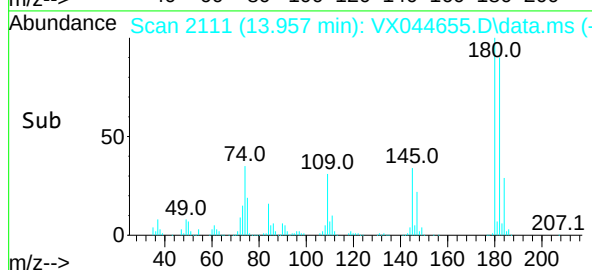
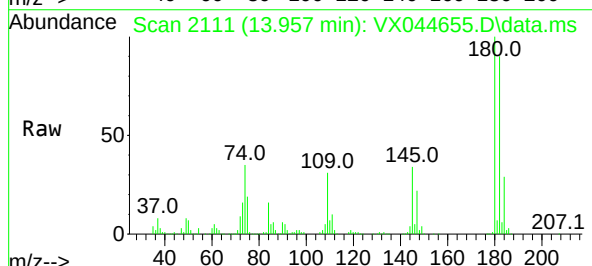
Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



#96
1,2,3-Trichlorobenzene
Concen: 52.611 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:180 Resp: 128038
Ion Ratio Lower Upper
180 100
182 93.8 47.2 141.6
145 35.2 17.5 52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044655.D
 Acq On : 15 Jan 2025 15:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX011525

Quant Time: Jan 16 01:21:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	0.673	0.761	-13.1	105	0.00
3 P	Chloromethane	0.728	0.695	4.5	92	0.00
4 C	Vinyl Chloride	0.719	0.717	0.3#	96	0.00
5 T	Bromomethane	0.172	0.172	0.0	95	0.00
6 T	Chloroethane	0.132	0.131	0.8	105	0.00
7 T	Trichlorofluoromethane	0.795	0.823	-3.5	101	0.00
8 T	Diethyl Ether	0.321	0.304	5.3	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.597	0.624	-4.5	106	0.00
10 T	Methyl Iodide	0.815	0.837	-2.7	97	0.00
11 T	Tert butyl alcohol	0.168	0.167	0.6	104	0.00
12 CM	1,1-Dichloroethene	0.585	0.600	-2.6#	100	0.00
13 T	Acrolein	0.079	0.073	7.6	101	0.00
14 T	Allyl chloride	1.140	1.100	3.5	98	0.00
15 T	Acrylonitrile	0.330	0.343	-3.9	103	0.00
16 T	Acetone	0.299	0.319	-6.7	112	0.00
17 T	Carbon Disulfide	1.597	1.624	-1.7	99	0.00
18 T	Methyl Acetate	0.921	0.987	-7.2	105	0.00
19 T	Methyl tert-butyl Ether	2.121	2.137	-0.8	99	0.00
20 T	Methylene Chloride	0.695	0.669	3.7	97	0.00
21 T	trans-1,2-Dichloroethene	0.611	0.597	2.3	99	0.00
22 T	Diisopropyl ether	1.981	2.008	-1.4	99	0.00
23 T	Vinyl Acetate	1.734	1.765	-1.8	100	0.00
24 P	1,1-Dichloroethane	1.175	1.179	-0.3	98	0.00
25 T	2-Butanone	0.444	0.472	-6.3	104	0.00
26 T	2,2-Dichloropropane	1.139	1.109	2.6	99	0.00
27 T	cis-1,2-Dichloroethene	0.769	0.751	2.3	98	0.00
28 T	Bromochloromethane	0.549	0.544	0.9	96	0.00
29 T	Tetrahydrofuran	0.286	0.294	-2.8	103	0.00
30 C	Chloroform	1.186	1.193	-0.6#	98	0.00
31 T	Cyclohexane	0.950	1.005	-5.8	101	0.00
32 T	1,1,1-Trichloroethane	1.090	1.065	2.3	100	0.00
33 S	1,2-Dichloroethane-d4	0.755	0.790	-4.6	100	-0.01
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
35 S	Dibromofluoromethane	0.318	0.341	-7.2	99	0.00
36 T	1,1-Dichloropropene	0.442	0.445	-0.7	100	0.00
37 T	Ethyl Acetate	0.471	0.513	-8.9	102	0.00
38 T	Carbon Tetrachloride	0.497	0.500	-0.6	100	-0.01
39 T	Methylcyclohexane	0.587	0.617	-5.1	103	0.00
40 TM	Benzene	1.370	1.387	-1.2	98	0.00
41 T	Methacrylonitrile	0.274	0.282	-2.9	102	0.00
42 TM	1,2-Dichloroethane	0.500	0.509	-1.8	98	0.00
43 T	Isopropyl Acetate	0.866	0.881	-1.7	99	0.00
44 TM	Trichloroethene	0.329	0.342	-4.0	100	0.00
45 C	1,2-Dichloropropane	0.345	0.352	-2.0#	98	0.00
46 T	Dibromomethane	0.263	0.262	0.4	98	0.00
47 T	Bromodichloromethane	0.538	0.539	-0.2	98	0.00
48 T	Methyl methacrylate	0.402	0.425	-5.7	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044655.D
 Acq On : 15 Jan 2025 15:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX011525

Quant Time: Jan 16 01:21:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.008	0.008	0.0	97	0.00
50 S	Toluene-d8	1.108	1.177	-6.2	97	0.00
51 T	4-Methyl-2-Pentanone	0.479	0.482	-0.6	99	0.00
52 CM	Toluene	0.839	0.838	0.1#	96	0.00
53 T	t-1,3-Dichloropropene	0.556	0.571	-2.7	96	0.00
54 T	cis-1,3-Dichloropropene	0.603	0.616	-2.2	99	0.00
55 T	1,1,2-Trichloroethane	0.339	0.340	-0.3	98	0.00
56 T	Ethyl methacrylate	0.583	0.590	-1.2	96	0.00
57 T	1,3-Dichloropropane	0.578	0.579	-0.2	96	0.00
58 T	2-Chloroethyl Vinyl ether	0.286	0.289	-1.0	97	0.00
59 T	2-Hexanone	0.352	0.356	-1.1	99	0.00
60 T	Dibromochloromethane	0.398	0.398	0.0	96	0.00
61 T	1,2-Dibromoethane	0.356	0.353	0.8	97	0.00
62 S	4-Bromofluorobenzene	0.413	0.435	-5.3	95	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
64 T	Tetrachloroethene	0.314	0.335	-6.7	100	0.00
65 PM	Chlorobenzene	1.062	1.076	-1.3	95	0.00
66 T	1,1,1,2-Tetrachloroethane	0.386	0.395	-2.3	95	0.00
67 C	Ethyl Benzene	1.853	1.917	-3.5#	95	0.00
68 T	m/p-Xylenes	0.688	0.706	-2.6	95	0.00
69 T	o-Xylene	0.695	0.701	-0.9	93	0.00
70 T	Styrene	1.123	1.154	-2.8	94	0.00
71 P	Bromoform	0.314	0.324	-3.2	95	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00
73 T	Isopropylbenzene	4.085	4.105	-0.5	95	0.00
74 T	N-amyl acetate	2.013	2.020	-0.3	96	0.00
75 P	1,1,2,2-Tetrachloroethane	1.411	1.383	2.0	96	0.00
76 T	1,2,3-Trichloropropane	1.213	1.214	-0.1	100	0.00
77 T	Bromobenzene	0.955	0.945	1.0	95	0.00
78 T	n-propylbenzene	4.505	4.659	-3.4	96	0.00
79 T	2-Chlorotoluene	2.910	2.891	0.7	95	0.00
80 T	1,3,5-Trimethylbenzene	3.325	3.315	0.3	94	0.00
81 T	trans-1,4-Dichloro-2-butene	0.531	0.552	-4.0	97	0.00
82 T	4-Chlorotoluene	3.188	3.235	-1.5	95	0.00
83 T	tert-Butylbenzene	3.477	3.439	1.1	94	0.00
84 T	1,2,4-Trimethylbenzene	3.379	3.360	0.6	95	0.00
85 T	sec-Butylbenzene	4.048	4.135	-2.1	96	0.00
86 T	p-Isopropyltoluene	3.327	3.395	-2.0	95	0.00
87 T	1,3-Dichlorobenzene	1.656	1.705	-3.0	95	0.00
88 T	1,4-Dichlorobenzene	1.674	1.674	0.0	96	0.00
89 T	n-Butylbenzene	2.857	3.037	-6.3	98	0.00
90 T	Hexachloroethane	0.753	0.731	2.9	96	0.00
91 T	1,2-Dichlorobenzene	1.700	1.681	1.1	93	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.345	0.343	0.6	100	0.00
93 T	1,2,4-Trichlorobenzene	1.016	1.085	-6.8	95	0.00
94 T	Hexachlorobutadiene	0.399	0.422	-5.8	97	0.00
95 T	Naphthalene	3.920	4.148	-5.8	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.054	1.109	-5.2	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\WX011525\
 Data File : VX044655.D
 Acq On : 15 Jan 2025 15:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX011525

Quant Time: Jan 16 01:21:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	94	0.00
2 T	Dichlorodifluoromethane	50.000	56.549	-13.1	105	0.00
3 P	Chloromethane	50.000	47.763	4.5	92	0.00
4 C	Vinyl Chloride	50.000	49.839	0.3#	96	0.00
5 T	Bromomethane	50.000	50.031	-0.1	95	0.00
6 T	Chloroethane	50.000	49.624	0.8	105	0.00
7 T	Trichlorofluoromethane	50.000	51.789	-3.6	101	0.00
8 T	Diethyl Ether	50.000	47.479	5.0	98	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	52.271	-4.5	106	0.00
10 T	Methyl Iodide	50.000	51.350	-2.7	97	0.00
11 T	Tert butyl alcohol	250.000	248.503	0.6	104	0.00
12 CM	1,1-Dichloroethene	50.000	51.243	-2.5#	100	0.00
13 T	Acrolein	250.000	230.919	7.6	101	0.00
14 T	Allyl chloride	50.000	48.232	3.5	98	0.00
15 T	Acrylonitrile	250.000	259.942	-4.0	103	0.00
16 T	Acetone	250.000	266.735	-6.7	112	0.00
17 T	Carbon Disulfide	50.000	50.827	-1.7	99	0.00
18 T	Methyl Acetate	50.000	53.560	-7.1	105	0.00
19 T	Methyl tert-butyl Ether	50.000	50.389	-0.8	99	0.00
20 T	Methylene Chloride	50.000	48.076	3.8	97	0.00
21 T	trans-1,2-Dichloroethene	50.000	48.846	2.3	99	0.00
22 T	Diisopropyl ether	50.000	50.659	-1.3	99	0.00
23 T	Vinyl Acetate	250.000	254.442	-1.8	100	0.00
24 P	1,1-Dichloroethane	50.000	50.150	-0.3	98	0.00
25 T	2-Butanone	250.000	265.596	-6.2	104	0.00
26 T	2,2-Dichloropropane	50.000	48.697	2.6	99	0.00
27 T	cis-1,2-Dichloroethene	50.000	48.831	2.3	98	0.00
28 T	Bromochloromethane	50.000	49.545	0.9	96	0.00
29 T	Tetrahydrofuran	250.000	256.578	-2.6	103	0.00
30 C	Chloroform	50.000	50.304	-0.6#	98	0.00
31 T	Cyclohexane	50.000	52.878	-5.8	101	0.00
32 T	1,1,1-Trichloroethane	50.000	48.859	2.3	100	0.00
33 S	1,2-Dichloroethane-d4	50.000	52.363	-4.7	100	-0.01
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	92	0.00
35 S	Dibromofluoromethane	50.000	53.683	-7.4	99	0.00
36 T	1,1-Dichloropropene	50.000	50.294	-0.6	100	0.00
37 T	Ethyl Acetate	50.000	54.526	-9.1	102	0.00
38 T	Carbon Tetrachloride	50.000	50.287	-0.6	100	-0.01
39 T	Methylcyclohexane	50.000	52.520	-5.0	103	0.00
40 TM	Benzene	50.000	50.610	-1.2	98	0.00
41 T	Methacrylonitrile	50.000	51.342	-2.7	102	0.00
42 TM	1,2-Dichloroethane	50.000	50.902	-1.8	98	0.00
43 T	Isopropyl Acetate	50.000	50.871	-1.7	99	0.00
44 TM	Trichloroethene	50.000	51.887	-3.8	100	0.00
45 C	1,2-Dichloropropane	50.000	51.011	-2.0#	98	0.00
46 T	Dibromomethane	50.000	49.939	0.1	98	0.00
47 T	Bromodichloromethane	50.000	50.029	-0.1	98	0.00
48 T	Methyl methacrylate	50.000	52.890	-5.8	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
 Data File : VX044655.D
 Acq On : 15 Jan 2025 15:15
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX011525

Quant Time: Jan 16 01:21:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	992.095	0.8	97	0.00
50 S	Toluene-d8	50.000	53.113	-6.2	97	0.00
51 T	4-Methyl-2-Pentanone	250.000	251.778	-0.7	99	0.00
52 CM	Toluene	50.000	49.955	0.1#	96	0.00
53 T	t-1,3-Dichloropropene	50.000	51.300	-2.6	96	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.049	-2.1	99	0.00
55 T	1,1,2-Trichloroethane	50.000	50.085	-0.2	98	0.00
56 T	Ethyl methacrylate	50.000	50.595	-1.2	96	0.00
57 T	1,3-Dichloropropane	50.000	50.129	-0.3	96	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	251.852	-0.7	97	0.00
59 T	2-Hexanone	250.000	253.010	-1.2	99	0.00
60 T	Dibromochloromethane	50.000	49.957	0.1	96	0.00
61 T	1,2-Dibromoethane	50.000	49.693	0.6	97	0.00
62 S	4-Bromofluorobenzene	50.000	52.693	-5.4	95	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	89	0.00
64 T	Tetrachloroethene	50.000	53.384	-6.8	100	0.00
65 PM	Chlorobenzene	50.000	50.667	-1.3	95	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.129	-2.3	95	0.00
67 C	Ethyl Benzene	50.000	51.721	-3.4#	95	0.00
68 T	m/p-Xylenes	100.000	102.645	-2.6	95	0.00
69 T	o-Xylene	50.000	50.378	-0.8	93	0.00
70 T	Styrene	50.000	51.398	-2.8	94	0.00
71 P	Bromoform	50.000	51.597	-3.2	95	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	90	0.00
73 T	Isopropylbenzene	50.000	50.246	-0.5	95	0.00
74 T	N-amyl acetate	50.000	50.177	-0.4	96	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	49.002	2.0	96	0.00
76 T	1,2,3-Trichloropropane	50.000	50.004	-0.0	100	0.00
77 T	Bromobenzene	50.000	49.506	1.0	95	0.00
78 T	n-propylbenzene	50.000	51.712	-3.4	96	0.00
79 T	2-Chlorotoluene	50.000	49.678	0.6	95	0.00
80 T	1,3,5-Trimethylbenzene	50.000	49.852	0.3	94	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.981	-4.0	97	0.00
82 T	4-Chlorotoluene	50.000	50.750	-1.5	95	0.00
83 T	tert-Butylbenzene	50.000	49.459	1.1	94	0.00
84 T	1,2,4-Trimethylbenzene	50.000	49.714	0.6	95	0.00
85 T	sec-Butylbenzene	50.000	51.076	-2.2	96	0.00
86 T	p-Isopropyltoluene	50.000	51.028	-2.1	95	0.00
87 T	1,3-Dichlorobenzene	50.000	51.476	-3.0	95	0.00
88 T	1,4-Dichlorobenzene	50.000	50.011	-0.0	96	0.00
89 T	n-Butylbenzene	50.000	53.136	-6.3	98	0.00
90 T	Hexachloroethane	50.000	48.518	3.0	96	0.00
91 T	1,2-Dichlorobenzene	50.000	49.430	1.1	93	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.672	0.7	100	0.00
93 T	1,2,4-Trichlorobenzene	50.000	53.362	-6.7	95	0.00
94 T	Hexachlorobutadiene	50.000	52.807	-5.6	97	0.00
95 T	Naphthalene	50.000	52.899	-5.8	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX011525

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.611	-5.2	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1235 SAS No.: Q1235 SDG No.: Q1235

Instrument ID: MSVOA_X Calibration Date/Time: 02/03/2025 09:52

Lab File ID: VX044802.D Init. Calib. Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:31 13:37

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.719	0.766		6.54	20
1,1-Dichloroethene	0.585	0.636		8.72	20
2-Butanone	0.444	0.459		3.38	20
Carbon Tetrachloride	0.497	0.454		-8.65	20
Chloroform	1.186	1.162		-2.02	20
Benzene	1.370	1.440		5.11	20
1,2-Dichloroethane	0.500	0.454		-9.2	20
Trichloroethene	0.329	0.337		2.43	20
Tetrachloroethene	0.314	0.312		-0.64	20
Chlorobenzene	1.062	1.101	0.3	3.67	20
1,2-Dichloroethane-d4	0.755	0.726		-3.84	20
Dibromofluoromethane	0.318	0.333		4.72	20
Toluene-d8	1.108	1.249		12.73	20
4-Bromofluorobenzene	0.413	0.437		5.81	20

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_X\Data\VX020325\
 Data File : VX044802.D
 Acq On : 03 Feb 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:00:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	162430	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	297715	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	252415	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	101849	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	117965	48.114	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	96.220%		
35) Dibromofluoromethane	5.379	113	99232	52.467	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.940%		
50) Toluene-d8	8.641	98	371824	56.382	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	112.760%		
62) 4-Bromofluorobenzene	11.079	95	130114	52.925	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	105.860%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	104350	47.741	ug/l	100
3) Chloromethane	1.301	50	122617	51.877	ug/l	100
4) Vinyl Chloride	1.374	62	124437	53.283	ug/l	97
5) Bromomethane	1.593	94	32108	57.578	ug/l	100
6) Chloroethane	1.660	64	22426m	52.365	ug/l	
7) Trichlorofluoromethane	1.868	101	155099	60.090	ug/l	99
8) Diethyl Ether	2.130	74	51512	49.453	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.319	101	103805	53.500	ug/l	98
10) Methyl Iodide	2.441	142	132750	50.112	ug/l	97
11) Tert butyl alcohol	2.977	59	111502m	204.000	ug/l	
12) 1,1-Dichloroethene	2.307	96	103312	54.321	ug/l	98
13) Acrolein	2.233	56	55610	216.204	ug/l	98
14) Allyl chloride	2.654	41	182859	49.381	ug/l	97
15) Acrylonitrile	3.062	53	284374	265.265	ug/l	99
16) Acetone	2.380	43	235232	242.503	ug/l	97
17) Carbon Disulfide	2.502	76	274133	52.823	ug/l	99
18) Methyl Acetate	2.697	43	160361	53.585	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	337910	49.052	ug/l	97
20) Methylene Chloride	2.782	84	113693	50.330	ug/l	95
21) trans-1,2-Dichloroethene	3.081	96	100823	50.775	ug/l	99
22) Diisopropyl ether	3.751	45	353913	54.981	ug/l	97
23) Vinyl Acetate	3.715	43	1458707	258.911	ug/l	100
24) 1,1-Dichloroethane	3.599	63	198603	52.029	ug/l	100
25) 2-Butanone	4.550	43	373119	258.709	ug/l	98
26) 2,2-Dichloropropane	4.465	77	168163	45.456	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	125972	50.436	ug/l	97
28) Bromochloromethane	4.885	49	90867	50.943	ug/l	94
29) Tetrahydrofuran	4.995	42	240754	258.796	ug/l	96
30) Chloroform	5.080	83	188807	49.012	ug/l	99
31) Cyclohexane	5.458	56	177264	57.418	ug/l	93
32) 1,1,1-Trichloroethane	5.367	97	160997	45.461	ug/l	99
36) 1,1-Dichloropropene	5.678	75	133384	50.662	ug/l	99
37) Ethyl Acetate	4.702	43	146622	52.295	ug/l	96
38) Carbon Tetrachloride	5.666	117	135277	45.680	ug/l	97
39) Methylcyclohexane	7.373	83	187791	53.731	ug/l	99
40) Benzene	6.025	78	428598	52.535	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044802.D
 Acq On : 03 Feb 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:00:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	82519	50.508	ug/l	99
42) 1,2-Dichloroethane	6.074	62	135051	45.355	ug/l	100
43) Isopropyl Acetate	6.330	43	253694	49.187	ug/l	99
44) Trichloroethene	7.117	130	100231	51.104	ug/l	95
45) 1,2-Dichloropropane	7.421	63	109264	53.206	ug/l	97
46) Dibromomethane	7.574	93	73965	47.313	ug/l	99
47) Bromodichloromethane	7.812	83	149483	46.626	ug/l	99
48) Methyl methacrylate	7.684	41	119095	49.744	ug/l	98
49) 1,4-Dioxane	7.659	88	45154	903.978	ug/l	100
51) 4-Methyl-2-Pentanone	8.568	43	734014	257.519	ug/l	99
52) Toluene	8.714	92	261673	52.403	ug/l	99
53) t-1,3-Dichloropropene	8.970	75	159515	48.158	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	175713	48.923	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	100638	49.814	ug/l	97
56) Ethyl methacrylate	9.110	69	170918	49.203	ug/l	99
57) 1,3-Dichloropropane	9.305	76	172698	50.198	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	427737	250.814	ug/l	97
59) 2-Hexanone	9.427	43	531025	253.231	ug/l	100
60) Dibromochloromethane	9.513	129	111967	47.219	ug/l	99
61) 1,2-Dibromoethane	9.604	107	102485	48.405	ug/l	99
64) Tetrachloroethene	9.269	164	78776	49.701	ug/l	98
65) Chlorobenzene	10.073	112	277930	51.839	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	93479	47.975	ug/l	99
67) Ethyl Benzene	10.189	91	496981	53.125	ug/l	100
68) m/p-Xylenes	10.299	106	371687	107.068	ug/l	97
69) o-Xylene	10.640	106	181303	51.643	ug/l	99
70) Styrene	10.653	104	302980	53.453	ug/l	97
71) Bromoform	10.799	173	73161	46.133	ug/l #	100
73) Isopropylbenzene	10.957	105	462864	55.630	ug/l	100
74) N-amyl acetate	10.842	43	214304	52.255	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	151416	52.692	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	126793m	51.297	ug/l	
77) Bromobenzene	11.195	156	103391	53.164	ug/l	98
78) n-propylbenzene	11.299	91	543610	59.244	ug/l	99
79) 2-Chlorotoluene	11.360	91	318475	53.730	ug/l	99
80) 1,3,5-Trimethylbenzene	11.445	105	388082	57.296	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.012	75	54681	50.591	ug/l	97
82) 4-Chlorotoluene	11.451	91	375241	57.791	ug/l	99
83) tert-Butylbenzene	11.713	119	355525	50.199	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	351562	51.077	ug/l	98
85) sec-Butylbenzene	11.890	105	430027	52.148	ug/l	100
86) p-Isopropyltoluene	12.006	119	364463	53.781	ug/l	98
87) 1,3-Dichlorobenzene	11.963	146	179777	53.304	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	176282	51.704	ug/l	100
89) n-Butylbenzene	12.329	91	341907	58.741	ug/l	99
90) Hexachloroethane	12.536	117	78195	50.955	ug/l	99
91) 1,2-Dichlorobenzene	12.329	146	183157	52.880	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	29314	41.712	ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	120382	58.139	ug/l	99
94) Hexachlorobutadiene	13.719	225	47155	57.977	ug/l	98
95) Naphthalene	13.774	128	435692	54.557	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	119840	55.837	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
Data File : VX044802.D
Acq On : 03 Feb 2025 09:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:00:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

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

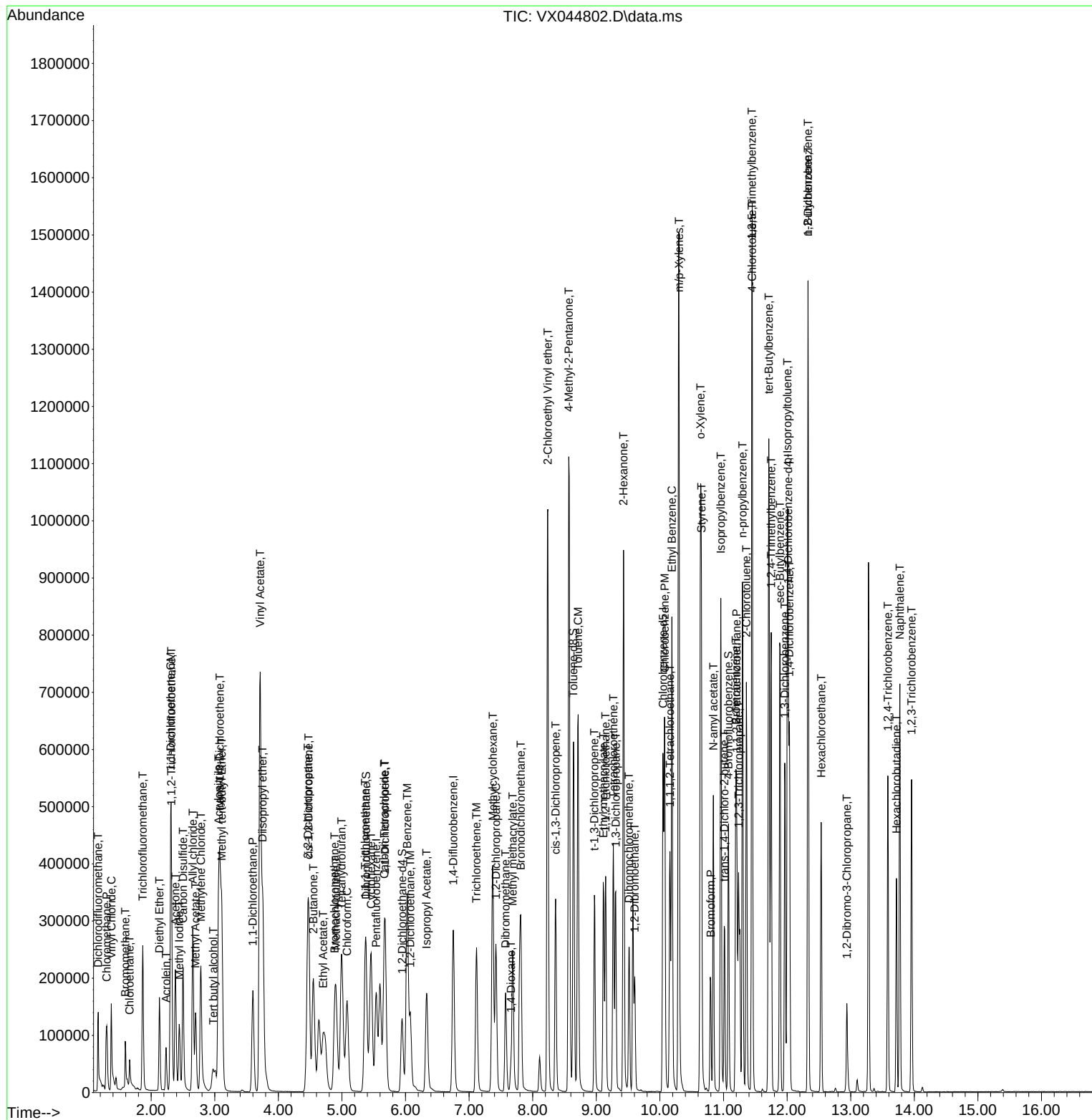
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044802.D
 Acq On : 03 Feb 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

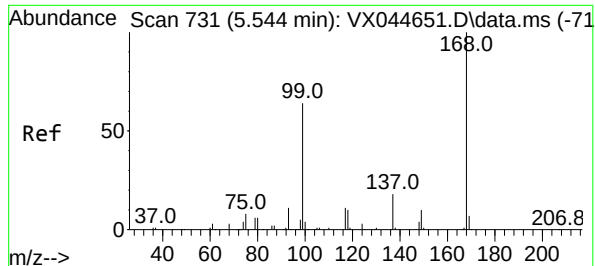
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

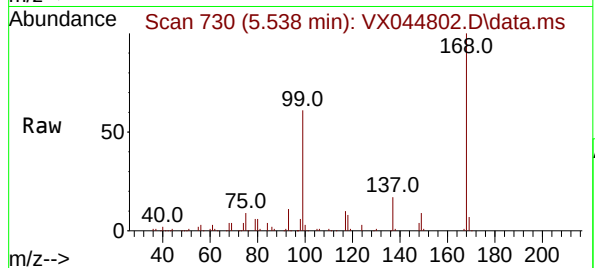
Quant Time: Feb 04 02:00:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

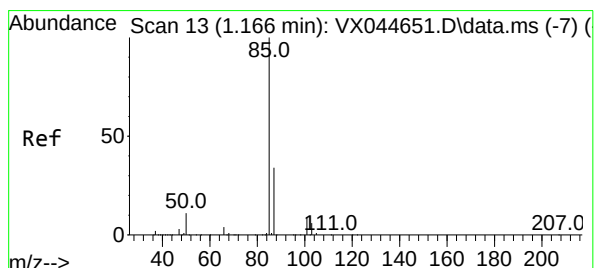
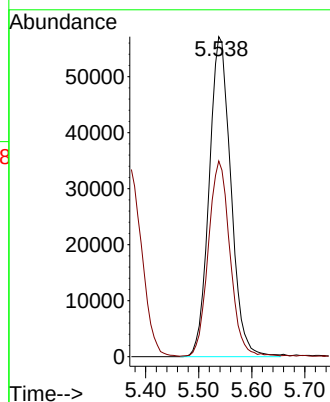
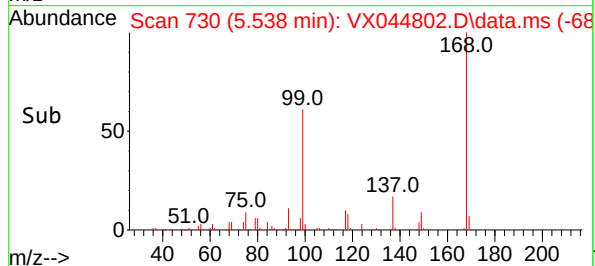
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:168 Resp: 162430
Ion Ratio Lower Upper
168 100
99 61.0 51.1 76.7

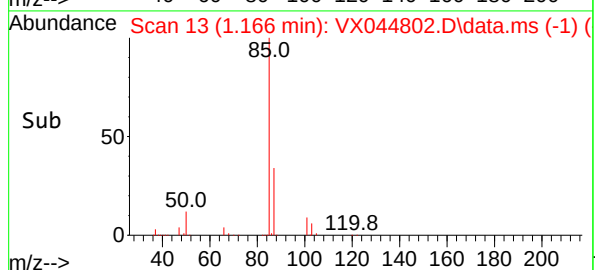
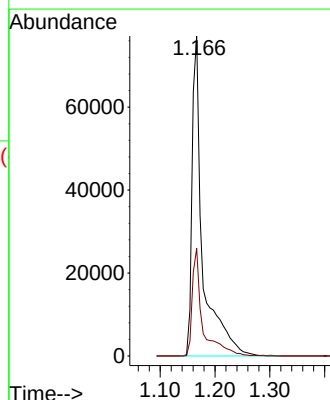
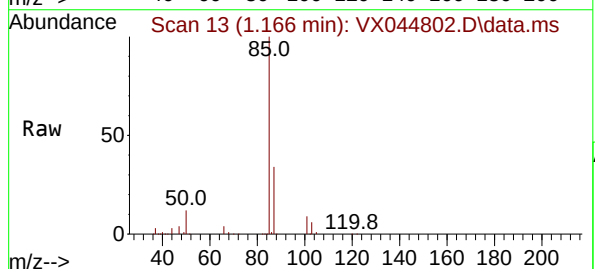
Manual Integrations
APPROVED

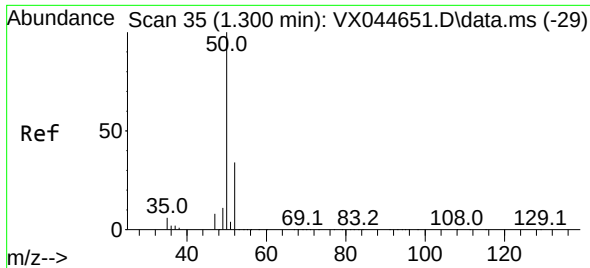
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#2
Dichlorodifluoromethane
Concen: 47.741 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Tgt Ion: 85 Resp: 104350
Ion Ratio Lower Upper
85 100
87 33.7 16.8 50.4





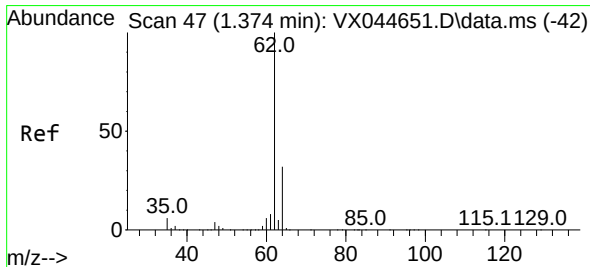
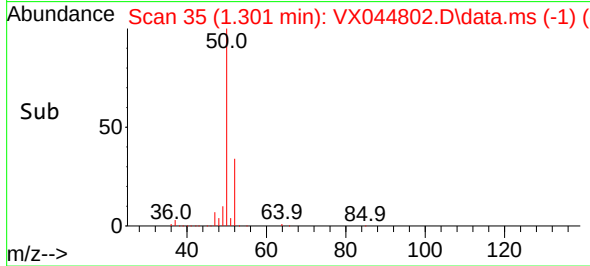
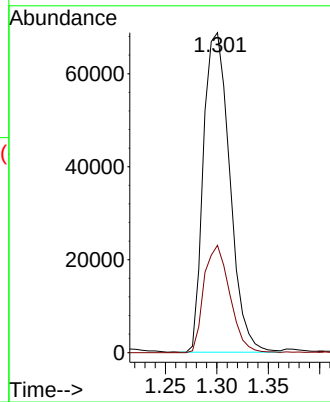
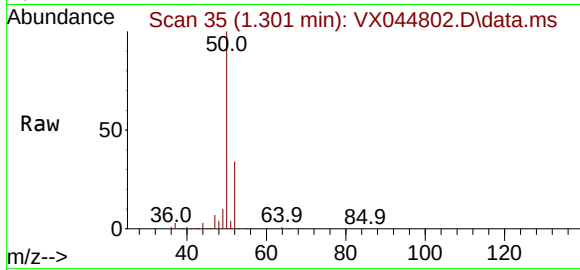
#3
Chloromethane
Concen: 51.877 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 122617
Ion Ratio Lower Upper
50 100
52 33.6 27.0 40.4

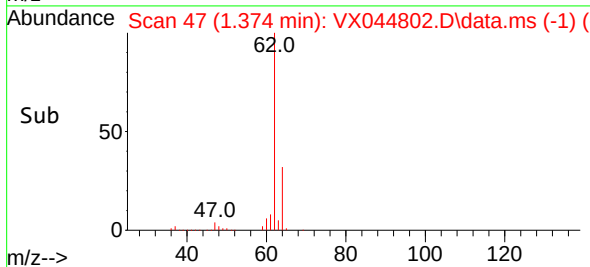
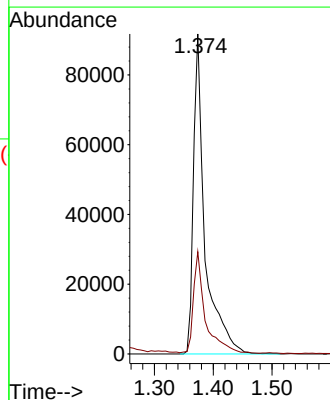
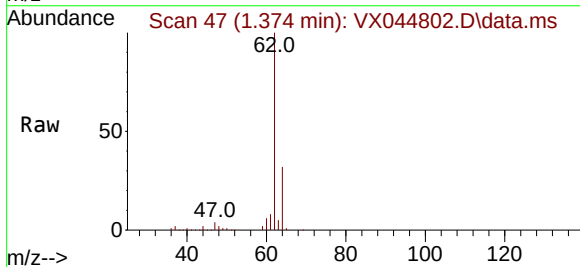
Manual Integrations
APPROVED

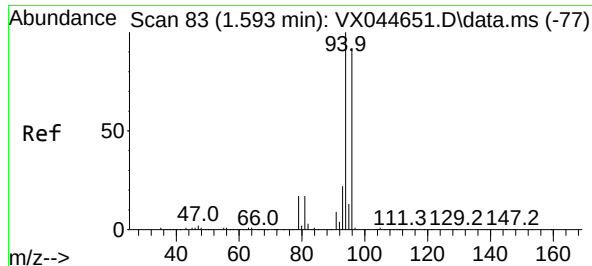
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#4
Vinyl Chloride
Concen: 53.283 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

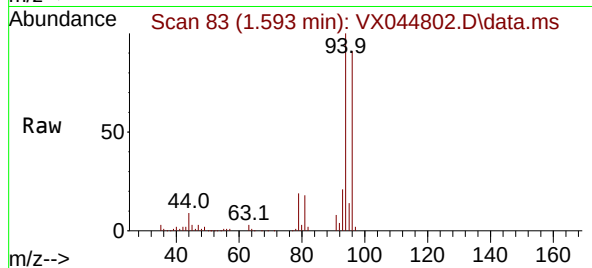
Tgt Ion: 62 Resp: 124437
Ion Ratio Lower Upper
62 100
64 31.7 26.6 39.8





#5
Bromomethane
Concen: 57.578 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

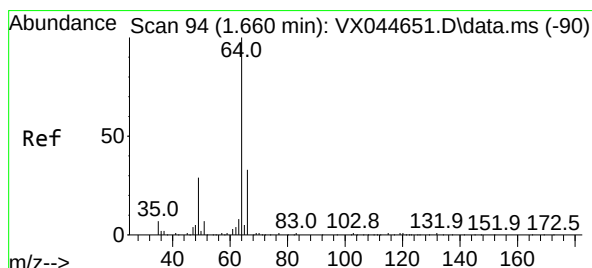
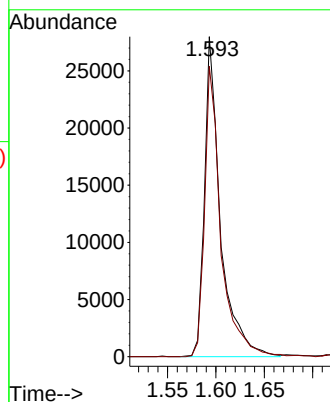
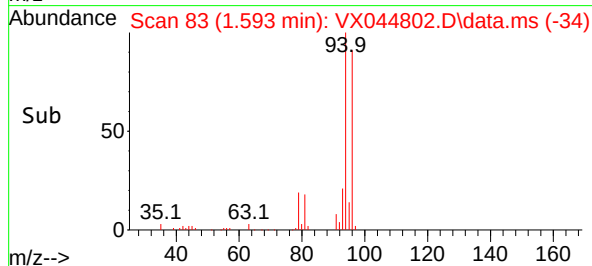
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 32108
Ion Ratio Lower Upper
94 100
96 90.7 72.8 109.2

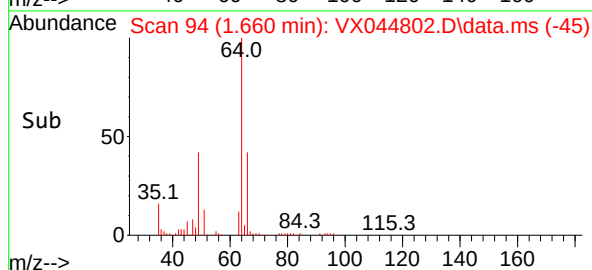
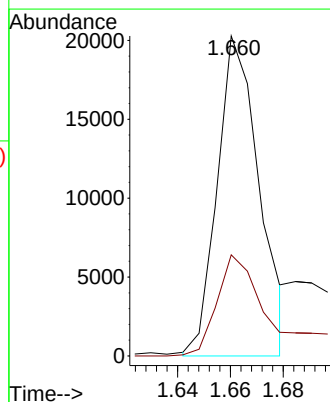
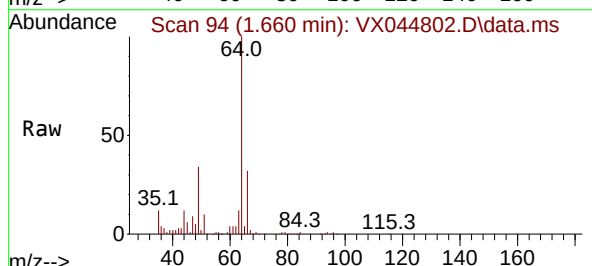
Manual Integrations
APPROVED

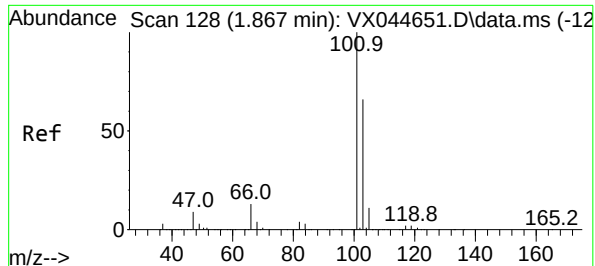
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#6
Chloroethane
Concen: 52.365 ug/l m
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

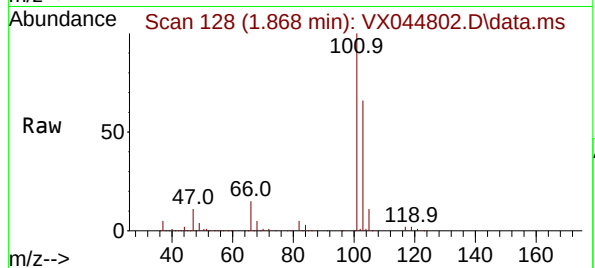
Tgt Ion: 64 Resp: 22426
Ion Ratio Lower Upper
64 100
66 31.6 26.6 39.8





#7
Trichlorofluoromethane
Concen: 60.090 ug/l
RT: 1.868 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

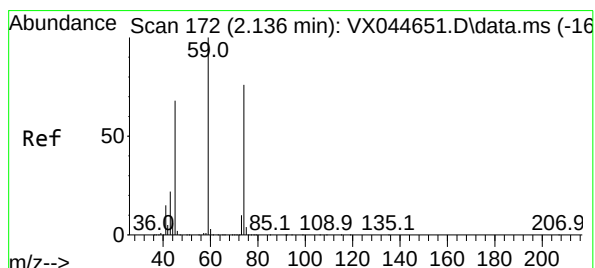
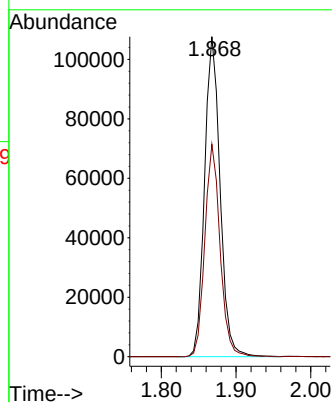
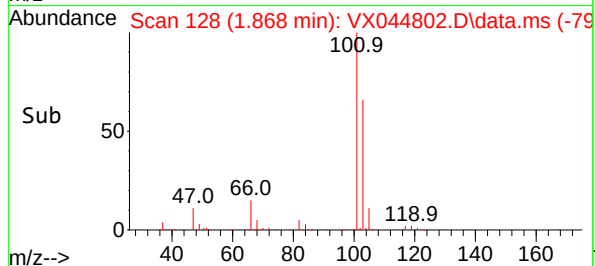
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 155099
Ion Ratio Lower Upper
101 100
103 66.3 52.5 78.7

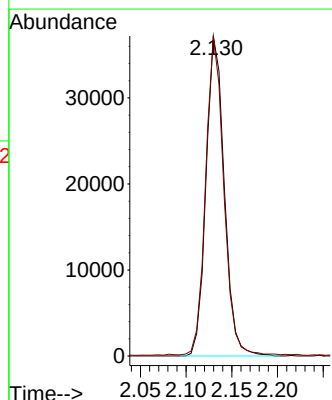
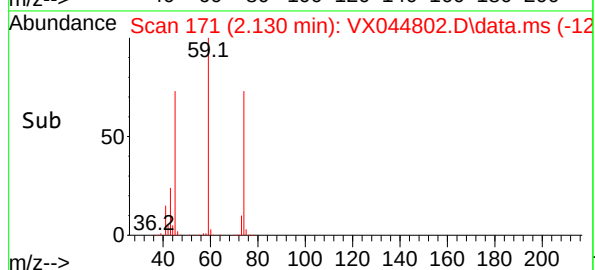
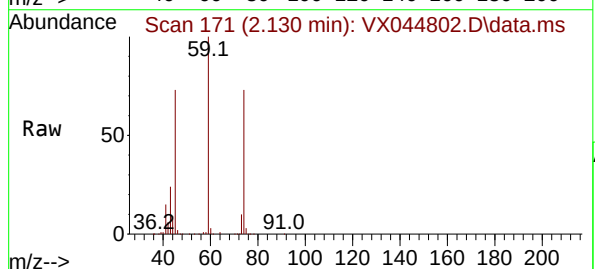
Manual Integrations
APPROVED

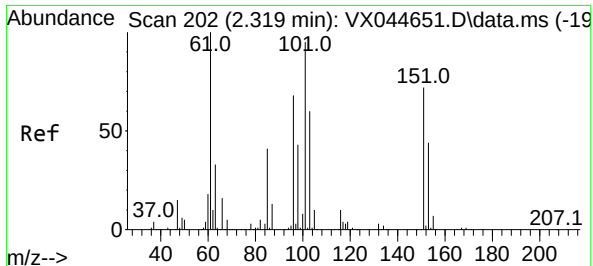
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#8
Diethyl Ether
Concen: 49.453 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

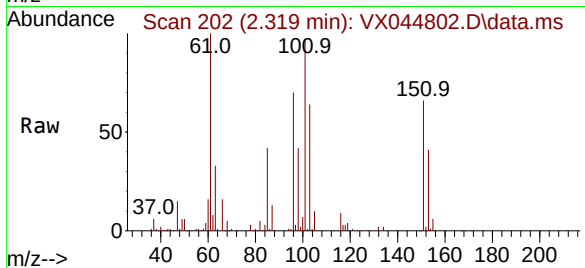
Tgt Ion: 74 Resp: 51512
Ion Ratio Lower Upper
74 100
45 99.5 47.1 141.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 53.500 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

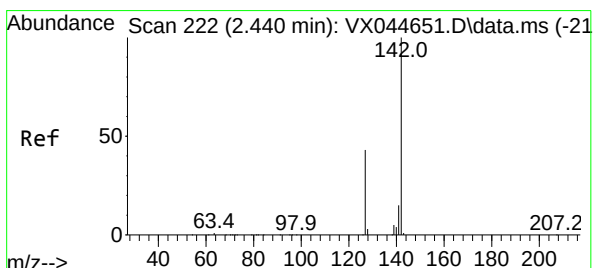
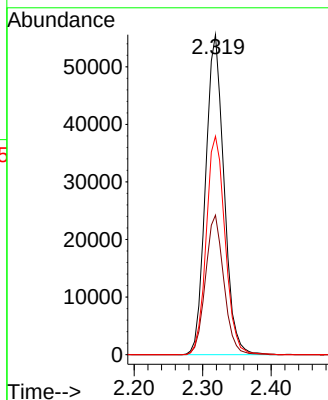
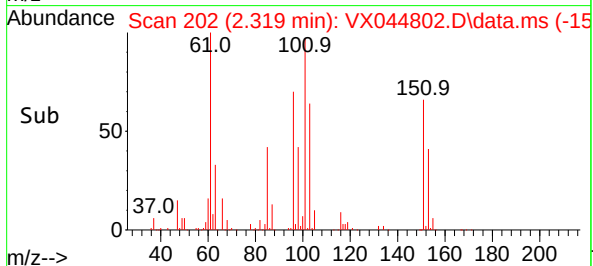
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 10380
Ion Ratio Lower Upper
101 100
85 43.7 35.3 52.9
151 70.1 58.2 87.4

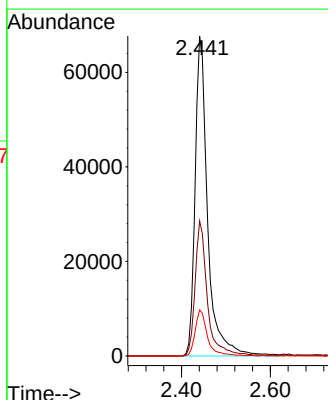
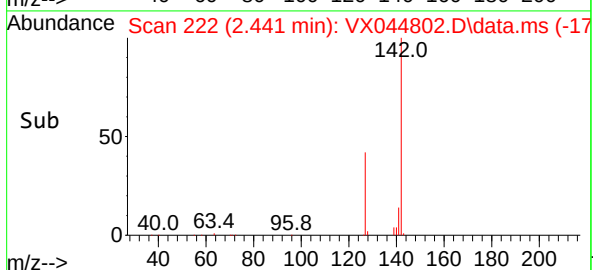
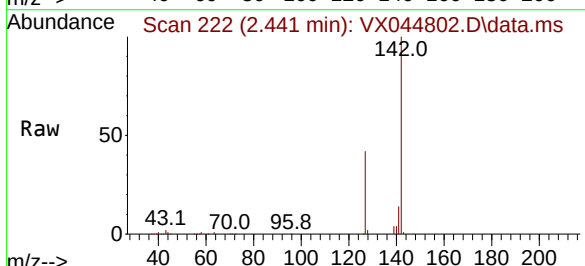
Manual Integrations
APPROVED

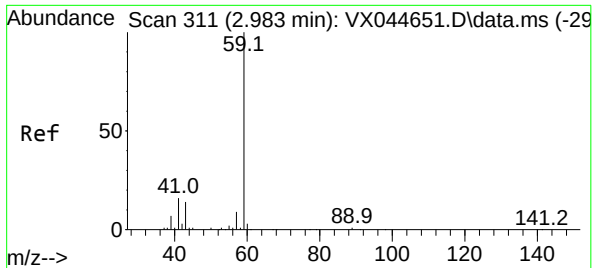
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#10
Methyl Iodide
Concen: 50.112 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Tgt Ion:142 Resp: 132750
Ion Ratio Lower Upper
142 100
127 41.4 35.0 52.4
141 14.1 11.7 17.5





#11

Tert butyl alcohol

Concen: 204.000 ug/l m

RT: 2.977 min Scan# 311

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 111502

Ion Ratio Lower Upper

59 100

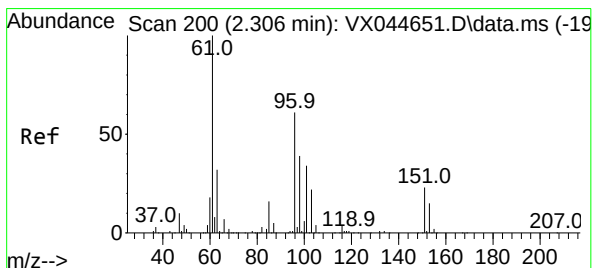
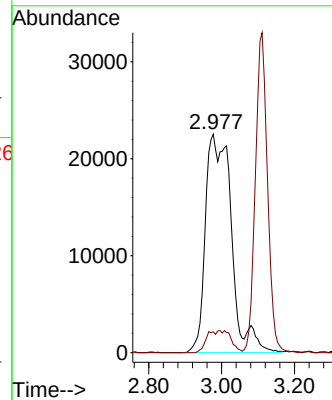
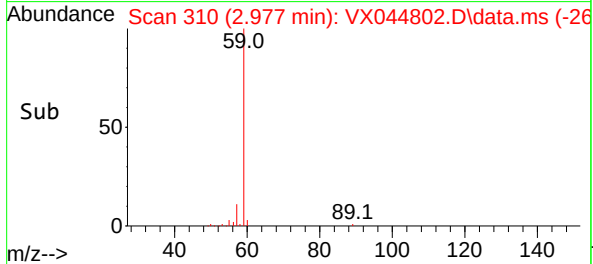
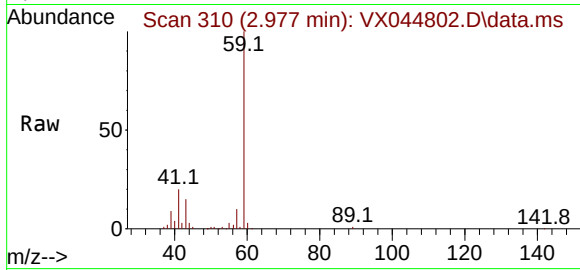
57 3.9 3.9 5.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#12

1,1-Dichloroethene

Concen: 54.321 ug/l

RT: 2.307 min Scan# 200

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

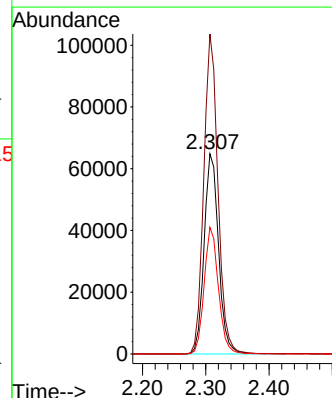
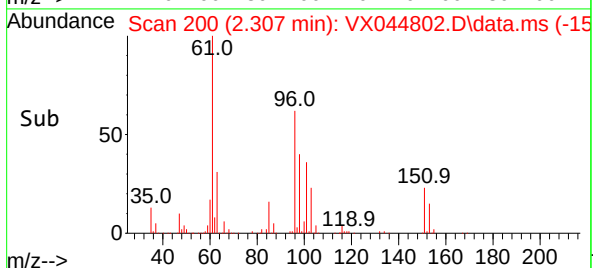
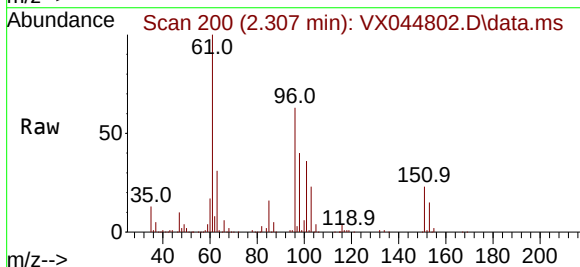
Tgt Ion: 96 Resp: 103312

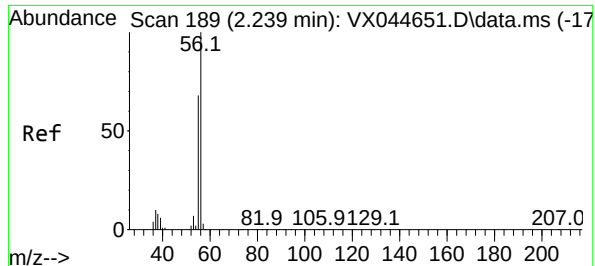
Ion Ratio Lower Upper

96 100

61 159.8 131.1 196.7

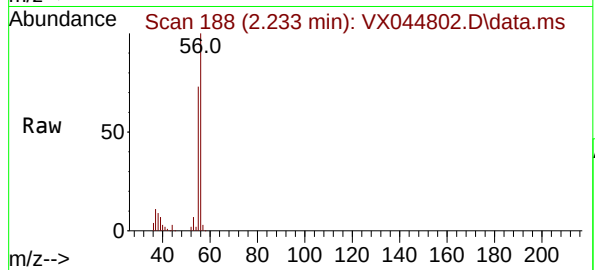
98 63.2 51.2 76.8





#13
Acrolein
Concen: 216.204 ug/l
RT: 2.233 min Scan# 189
Delta R.T. -0.006 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

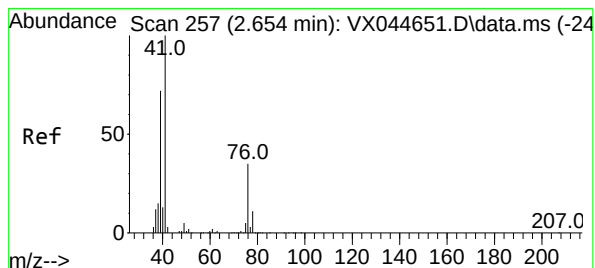
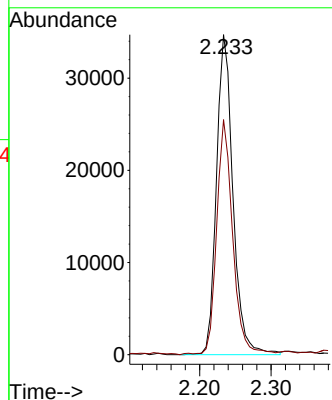
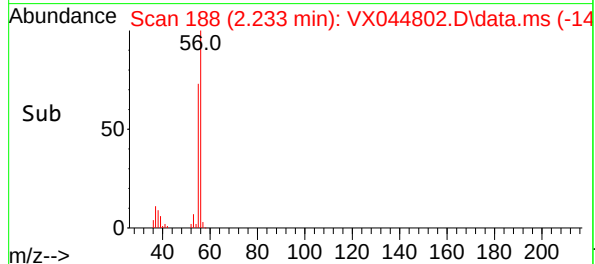
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 56 Resp: 55610
Ion Ratio Lower Upper
56 100
55 70.3 55.1 82.7

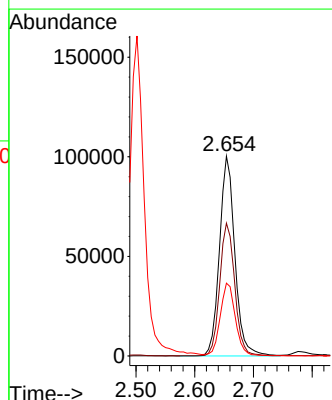
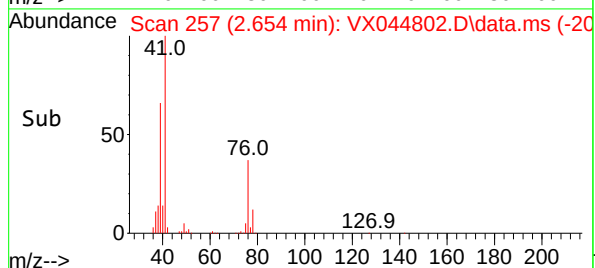
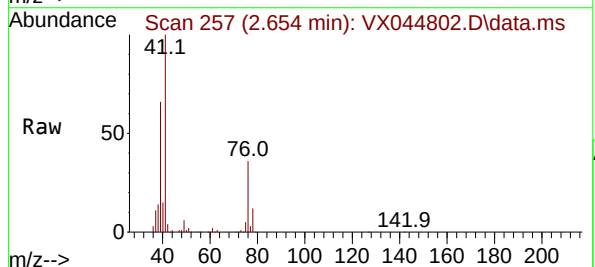
Manual Integrations
APPROVED

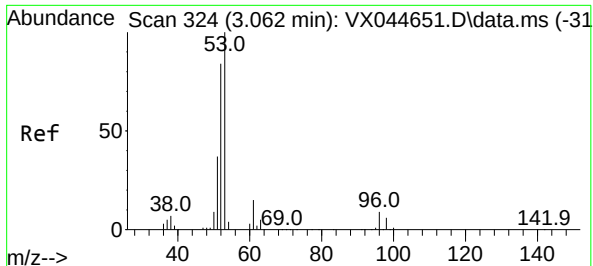
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#14
Allyl chloride
Concen: 49.381 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Tgt Ion: 41 Resp: 182859
Ion Ratio Lower Upper
41 100
39 64.6 54.9 82.3
76 35.8 28.4 42.6





#15

Acrylonitrile

Concen: 265.265 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044802.D

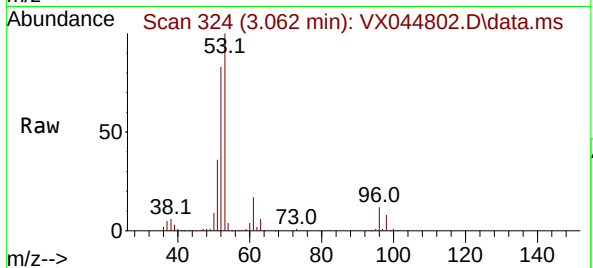
Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

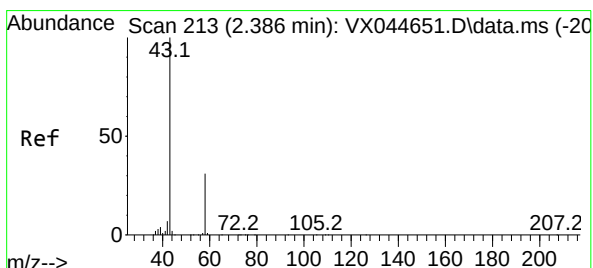
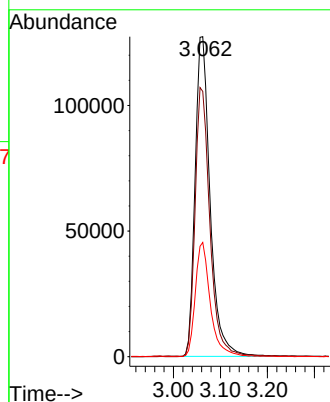


Tgt Ion:	53	Resp:	284374
Ion	Ratio	Lower	Upper
53	100		
52	82.9	66.0	99.0
51	35.6	28.9	43.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#16

Acetone

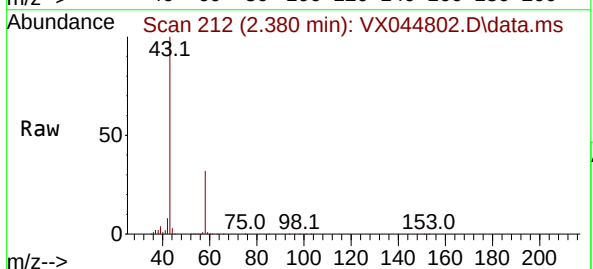
Concen: 242.503 ug/l

RT: 2.380 min Scan# 212

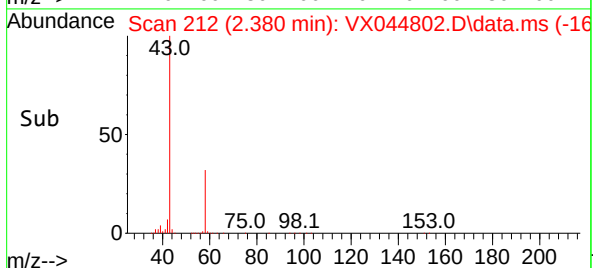
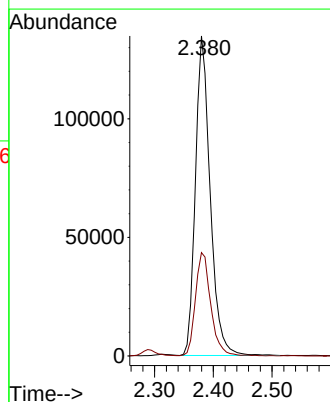
Delta R.T. -0.006 min

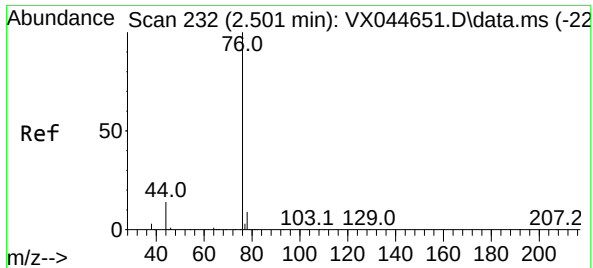
Lab File: VX044802.D

Acq: 03 Feb 2025 09:52



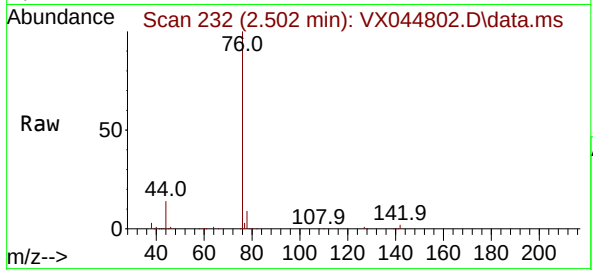
Tgt Ion:	43	Resp:	235232
Ion	Ratio	Lower	Upper
43	100		
58	32.3	24.6	37.0





#17
Carbon Disulfide
Concen: 52.823 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

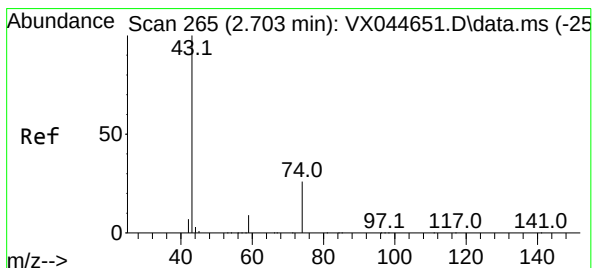
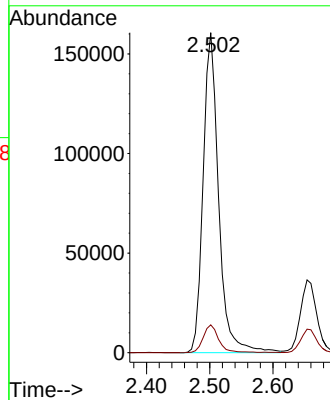
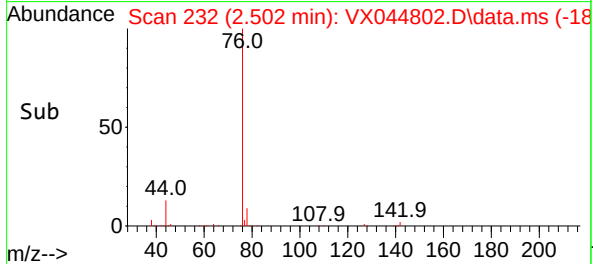
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 76 Resp: 27413
Ion Ratio Lower Upper
76 100
78 8.7 7.1 10.7

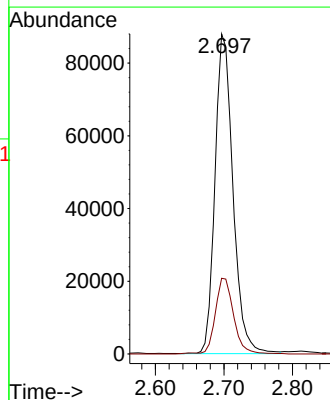
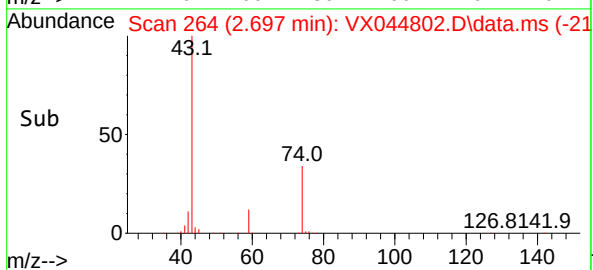
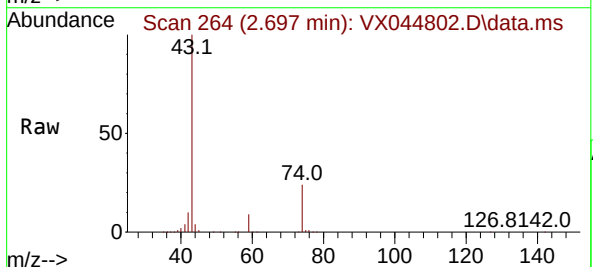
Manual Integrations
APPROVED

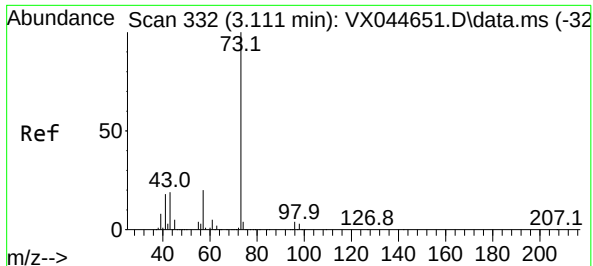
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#18
Methyl Acetate
Concen: 53.585 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Tgt Ion: 43 Resp: 160361
Ion Ratio Lower Upper
43 100
74 24.1 19.8 29.8





#19

Methyl tert-butyl Ether

Concen: 49.052 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 337910

Ion Ratio Lower Upper

73 100

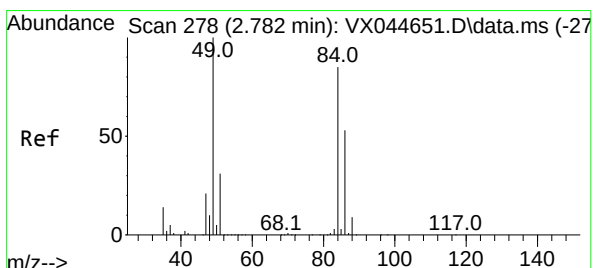
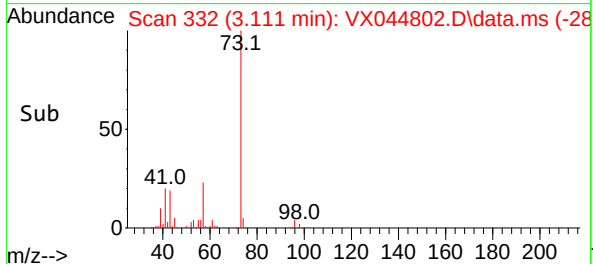
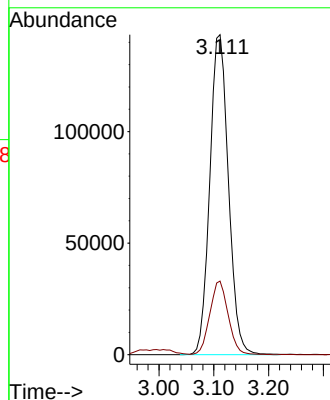
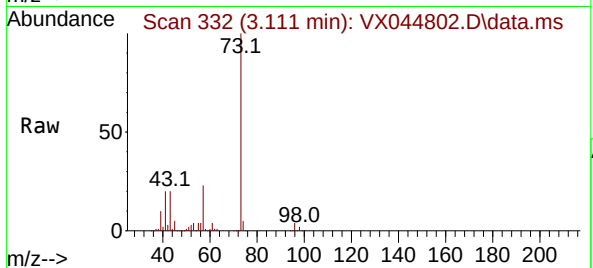
57 23.0 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#20

Methylene Chloride

Concen: 50.330 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Tgt Ion: 84 Resp: 113693

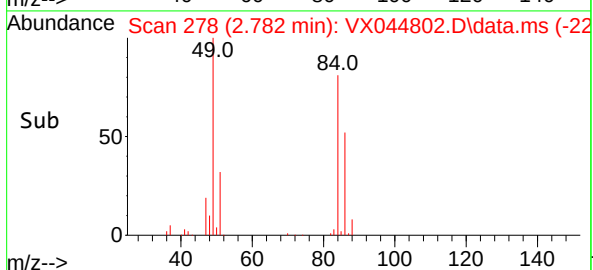
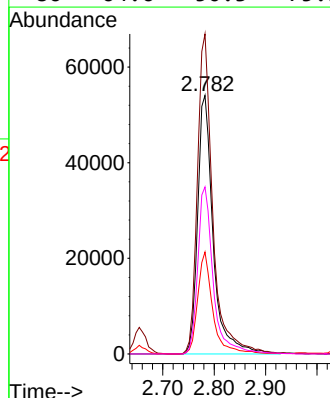
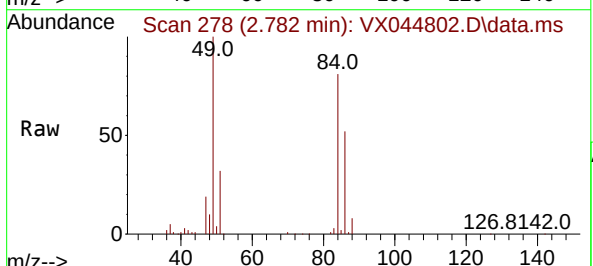
Ion Ratio Lower Upper

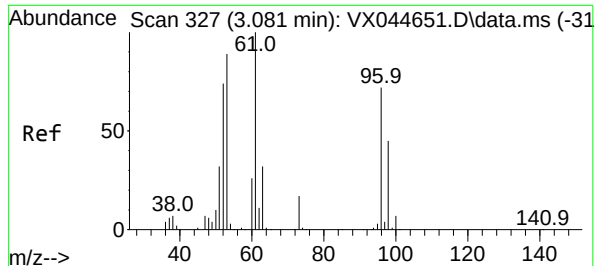
84 100

49 123.8 94.2 141.4

51 39.5 28.8 43.2

86 64.6 50.3 75.5





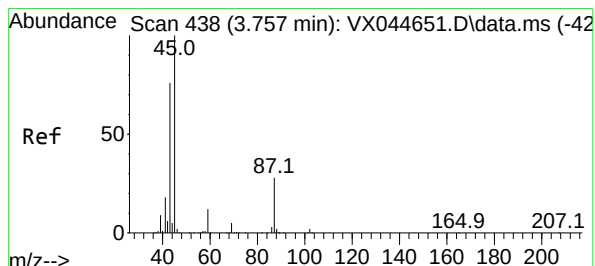
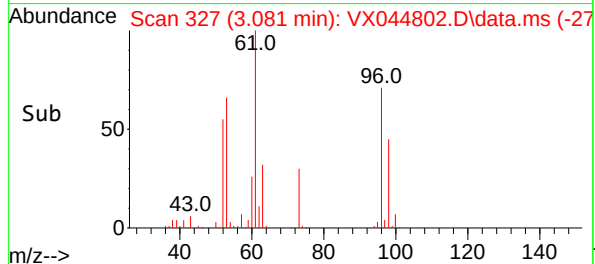
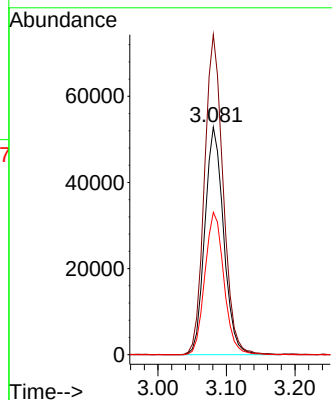
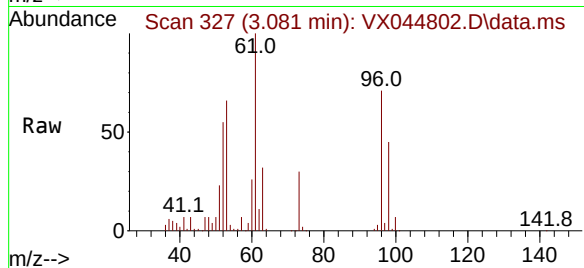
#21
trans-1,2-Dichloroethene
Concen: 50.775 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 96 Resp: 10082
Ion Ratio Lower Upper
96 100
61 140.6 111.0 166.6
98 62.6 50.2 75.2

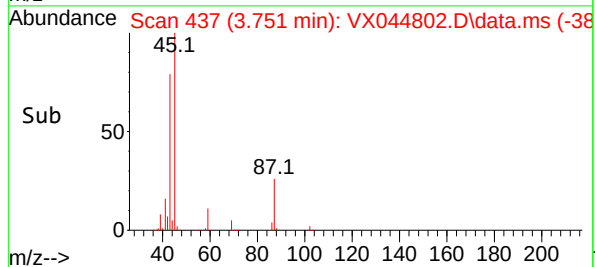
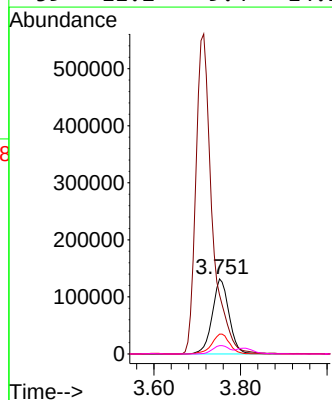
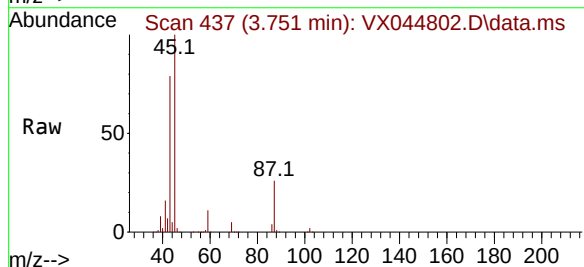
Manual Integrations
APPROVED

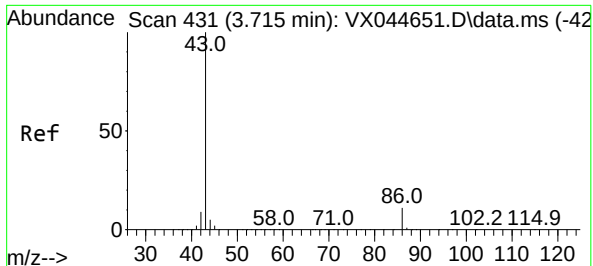
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#22
Diisopropyl ether
Concen: 54.981 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Tgt Ion: 45 Resp: 353913
Ion Ratio Lower Upper
45 100
43 78.6 61.0 91.6
87 26.4 22.7 34.1
59 11.2 9.4 14.2





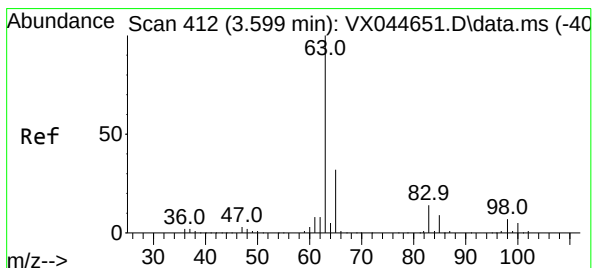
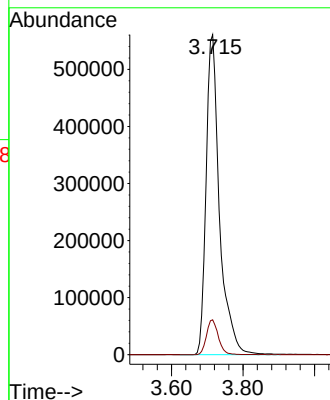
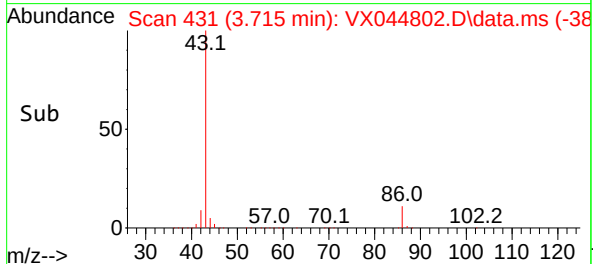
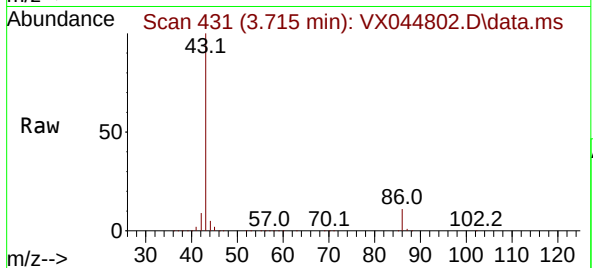
#23
Vinyl Acetate
Concen: 258.911 ug/l
RT: 3.715 min Scan# 411
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 145870
Ion Ratio Lower Upper
43 100
86 10.9 8.9 13.3

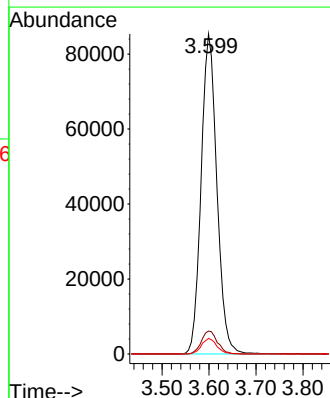
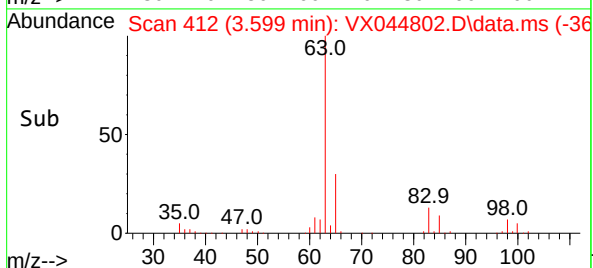
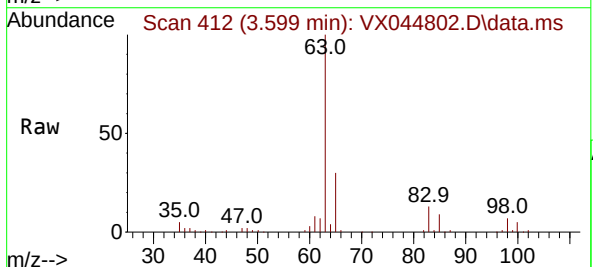
Manual Integrations
APPROVED

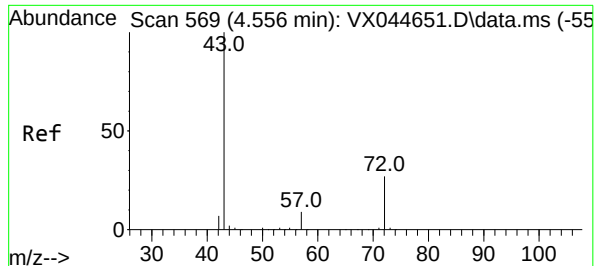
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#24
1,1-Dichloroethane
Concen: 52.029 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Tgt Ion: 63 Resp: 198603
Ion Ratio Lower Upper
63 100
98 7.1 3.6 10.9
100 4.9 2.5 7.5





#25

2-Butanone

Concen: 258.709 ug/l

RT: 4.550 min Scan# 569

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 373119

Ion Ratio Lower Upper

43 100

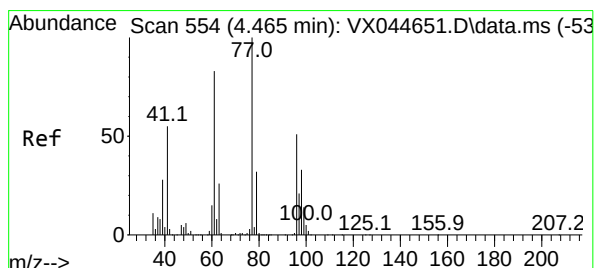
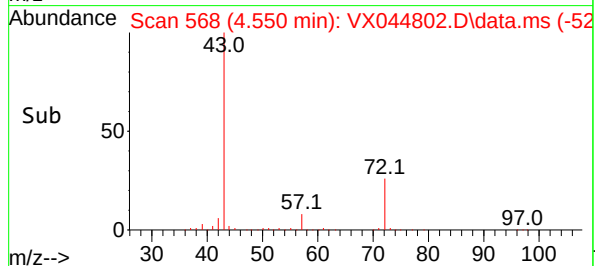
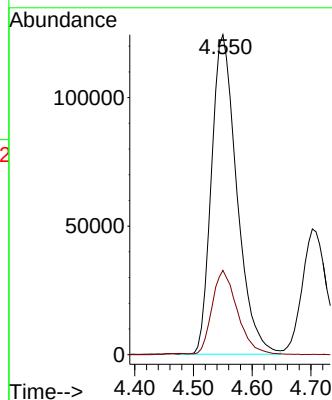
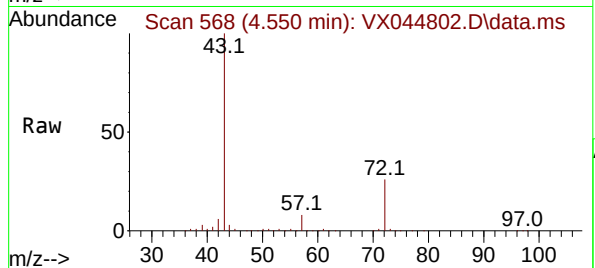
72 26.1 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#26

2,2-Dichloropropane

Concen: 45.456 ug/l

RT: 4.465 min Scan# 554

Delta R.T. 0.000 min

Lab File: VX044802.D

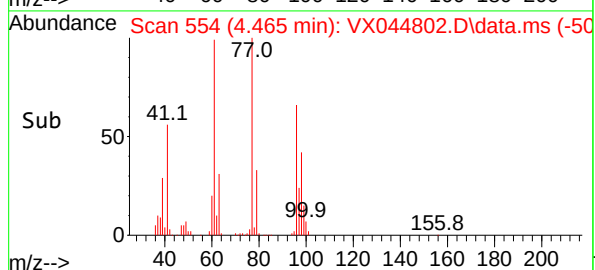
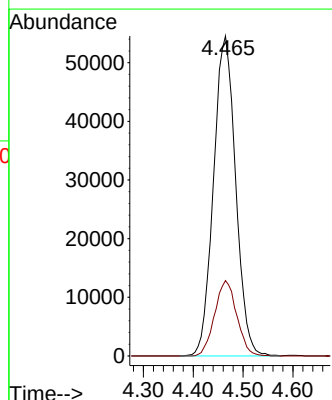
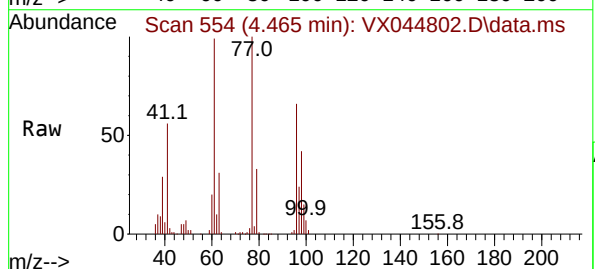
Acq: 03 Feb 2025 09:52

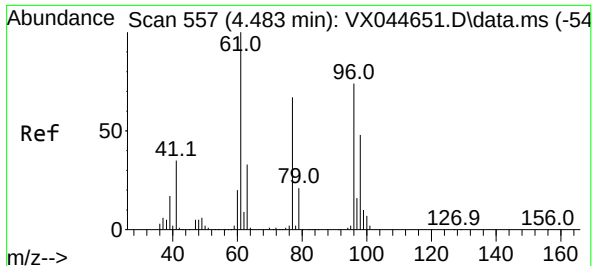
Tgt Ion: 77 Resp: 168163

Ion Ratio Lower Upper

77 100

97 23.5 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 50.436 ug/l

RT: 4.477 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 125972

Ion Ratio Lower Upper

96 100

61 143.2 0.0 296.0

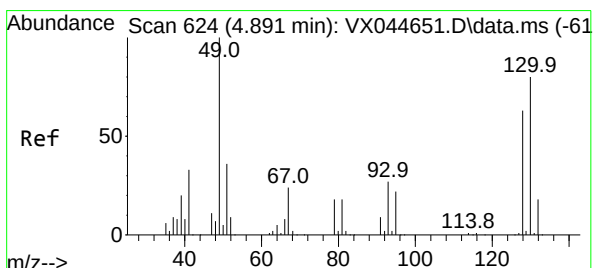
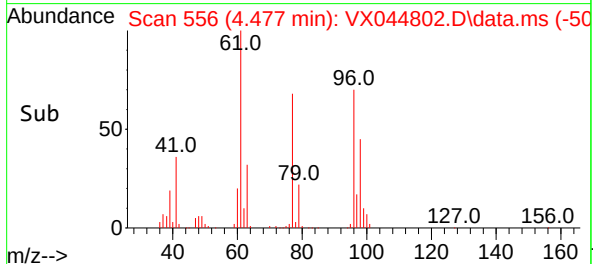
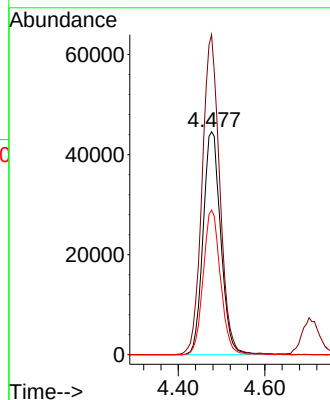
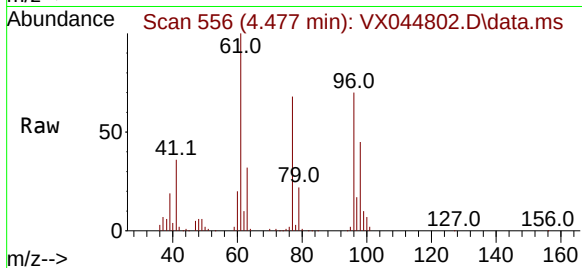
98 63.3 0.0 130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#28

Bromochloromethane

Concen: 50.943 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

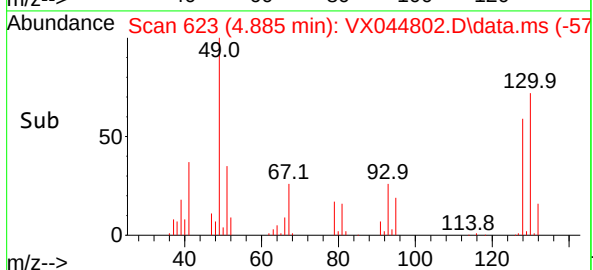
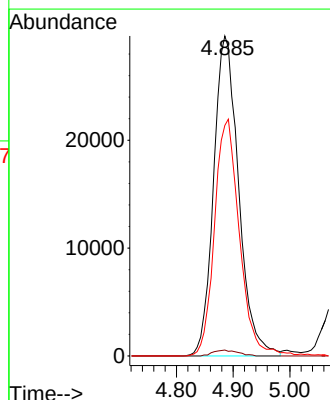
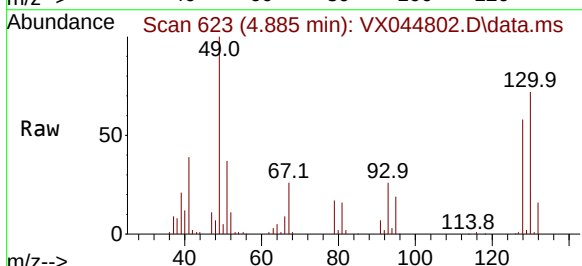
Tgt Ion: 49 Resp: 90867

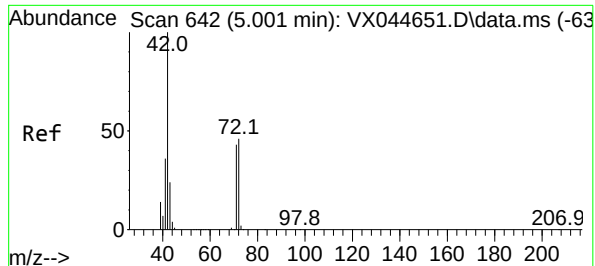
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.4

130 73.7 63.4 95.2





#29

Tetrahydrofuran

Concen: 258.796 ug/l

RT: 4.995 min Scan# 641

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 240754

Ion Ratio Lower Upper

42 100

72 45.8 38.2 57.4

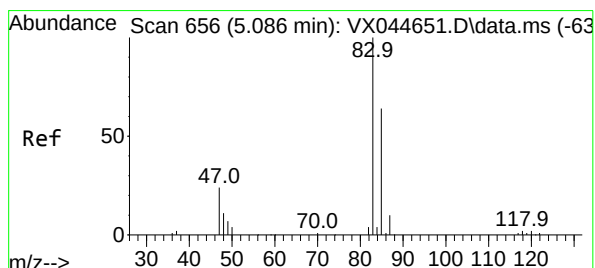
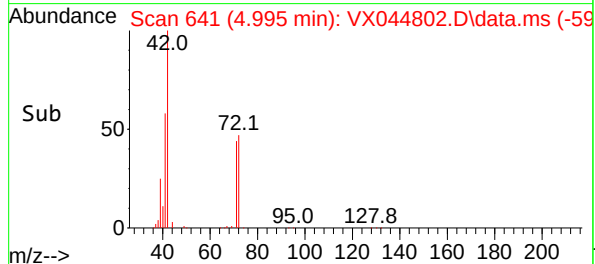
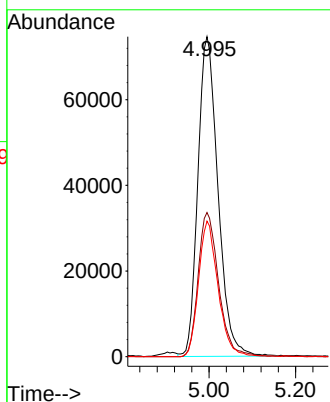
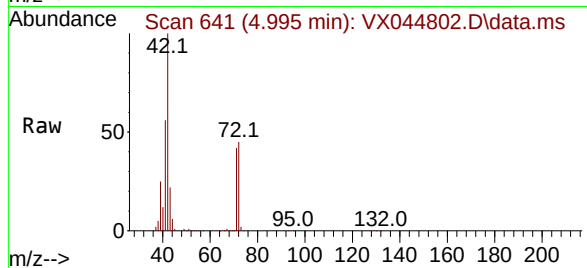
71 41.3 35.3 52.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#30

Chloroform

Concen: 49.012 ug/l

RT: 5.080 min Scan# 655

Delta R.T. -0.006 min

Lab File: VX044802.D

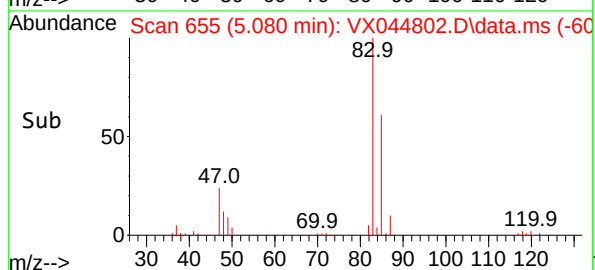
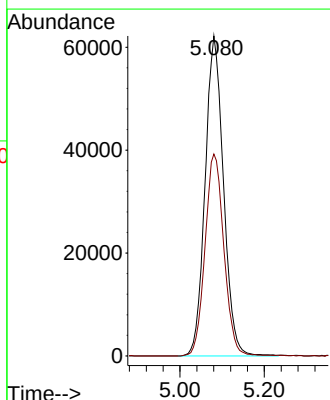
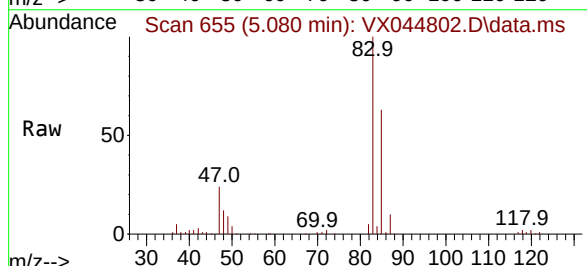
Acq: 03 Feb 2025 09:52

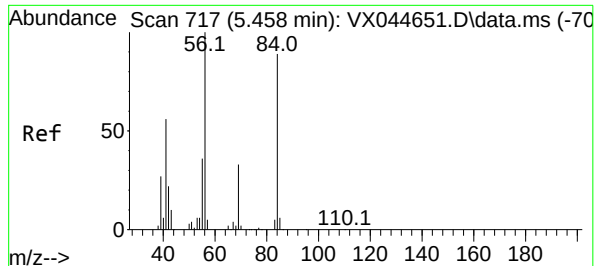
Tgt Ion: 83 Resp: 188807

Ion Ratio Lower Upper

83 100

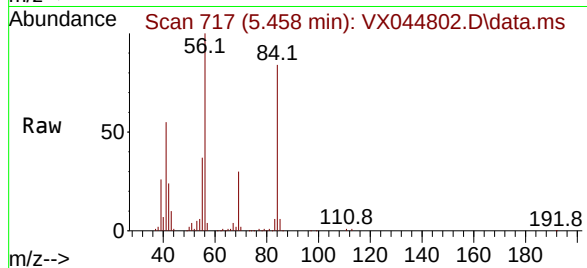
85 63.1 51.2 76.8





#31
Cyclohexane
Concen: 57.418 ug/l
RT: 5.458 min Scan# 717
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

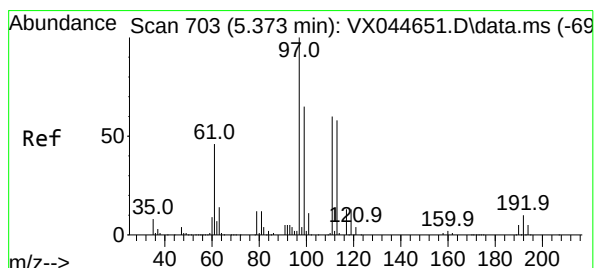
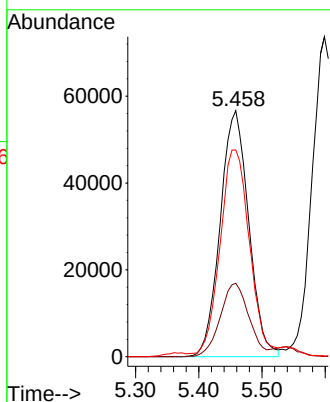
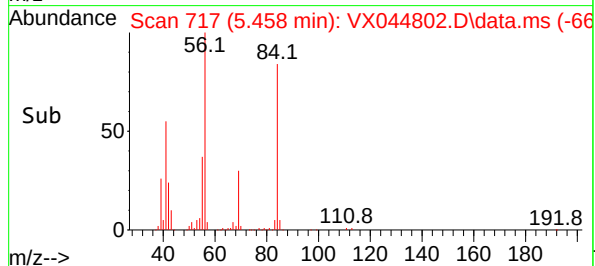
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



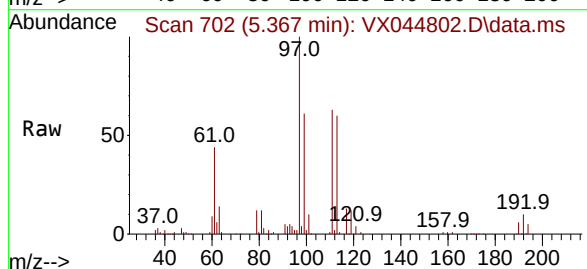
Tgt Ion: 56 Resp: 177264
Ion Ratio Lower Upper
56 100
69 29.9 26.8 40.2
84 82.5 71.0 106.4

Manual Integrations
APPROVED

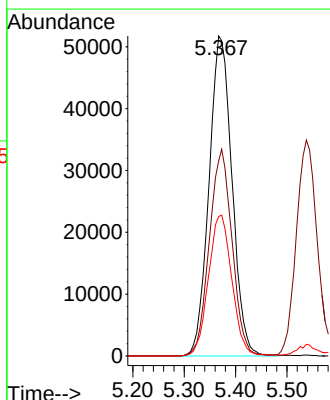
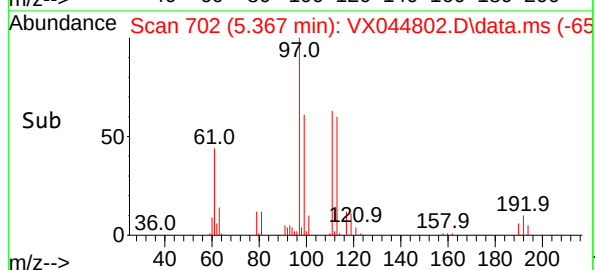
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

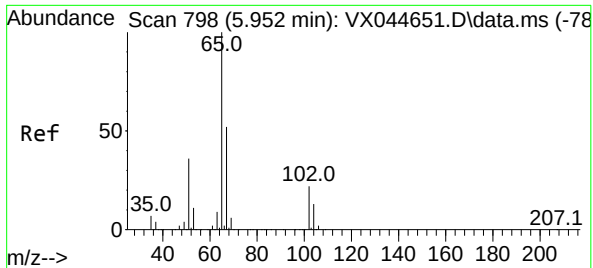


#32
1,1,1-Trichloroethane
Concen: 45.461 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52



Tgt Ion: 97 Resp: 160997
Ion Ratio Lower Upper
97 100
99 63.7 51.6 77.4
61 44.8 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 48.114 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 11796

Ion Ratio Lower Upper

65 100

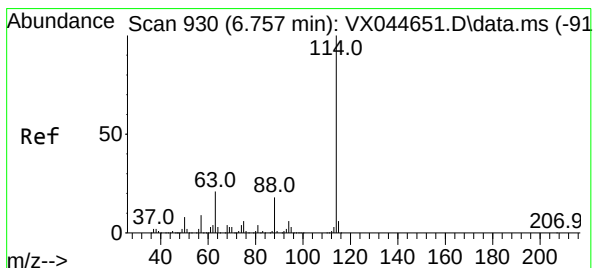
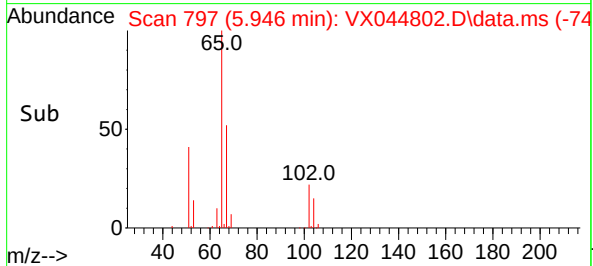
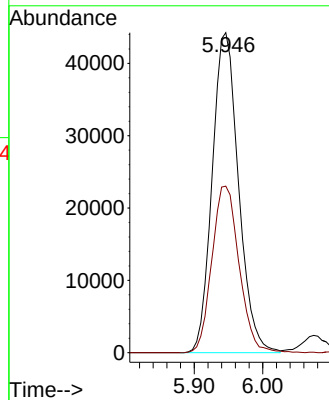
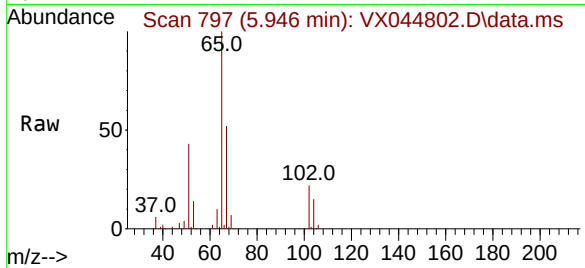
67 53.8 0.0 103.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

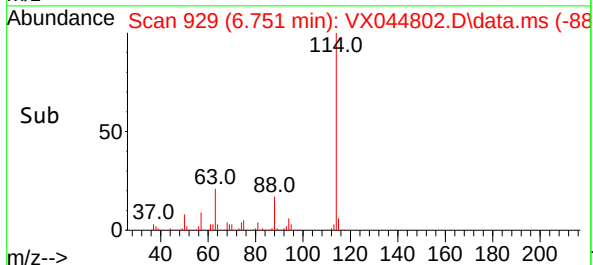
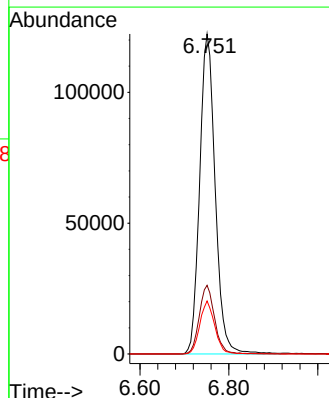
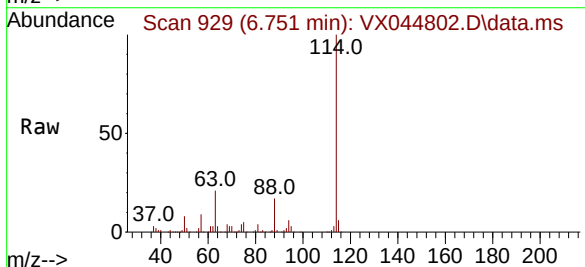
Tgt Ion:114 Resp: 297715

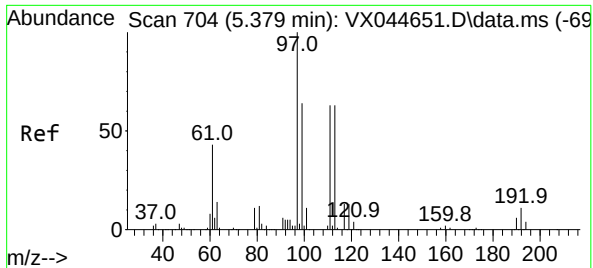
Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.0

88 16.5 0.0 35.4





#35

Dibromofluoromethane

Concen: 52.467 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 9923

Ion Ratio Lower Upper

113 100

111 103.8 81.6 122.4

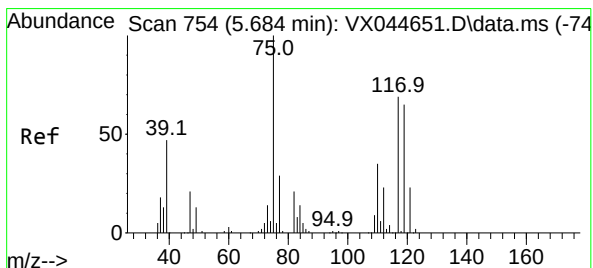
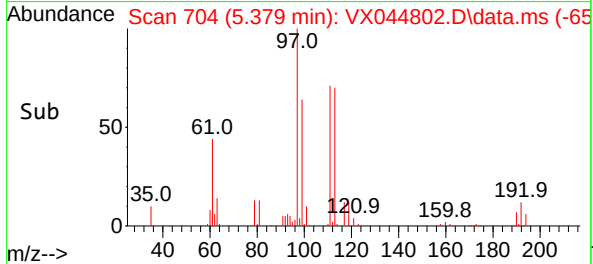
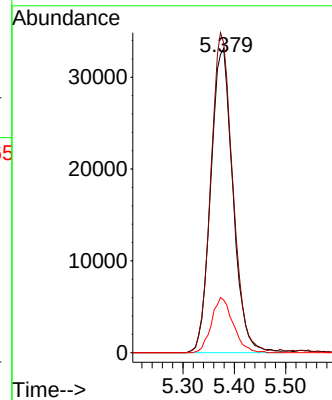
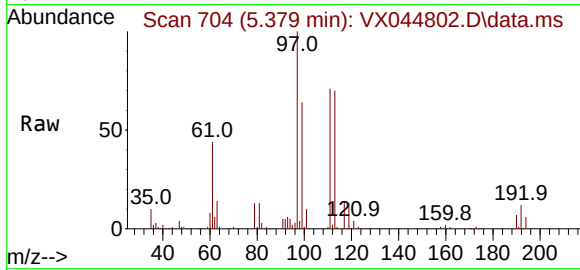
192 17.7 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#36

1,1-Dichloropropene

Concen: 50.662 ug/l

RT: 5.678 min Scan# 753

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

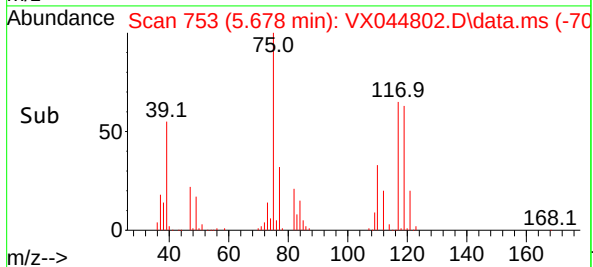
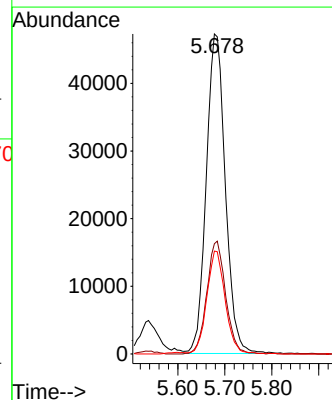
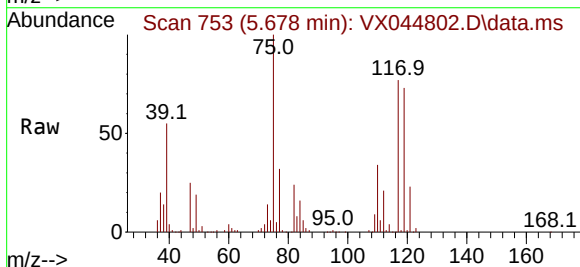
Tgt Ion: 75 Resp: 133384

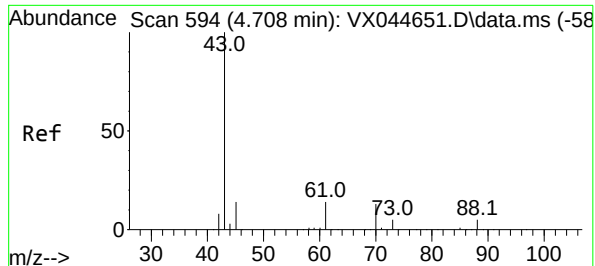
Ion Ratio Lower Upper

75 100

110 34.8 17.9 53.8

77 30.7 24.5 36.7





#37

Ethyl Acetate

Concen: 52.295 ug/l

RT: 4.702 min Scan# 594

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 14662

Ion Ratio Lower Upper

43 100

61 14.6 10.9 16.3

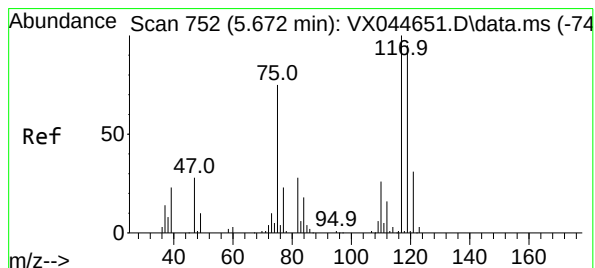
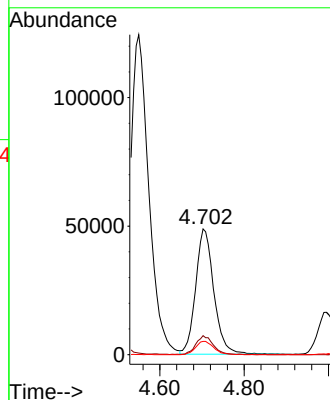
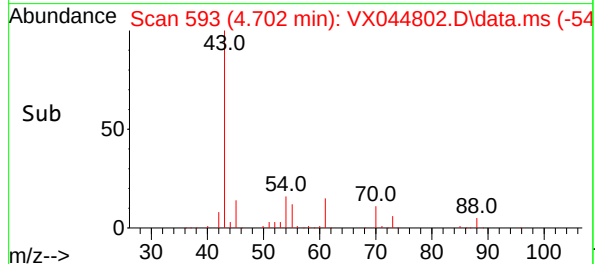
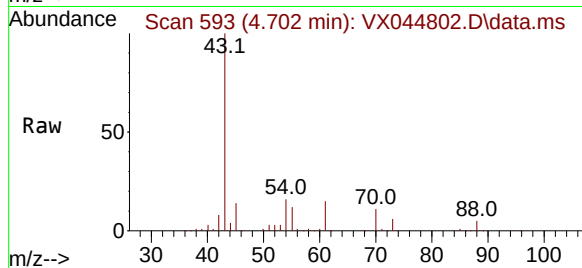
70 10.7 10.1 15.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#38

Carbon Tetrachloride

Concen: 45.680 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

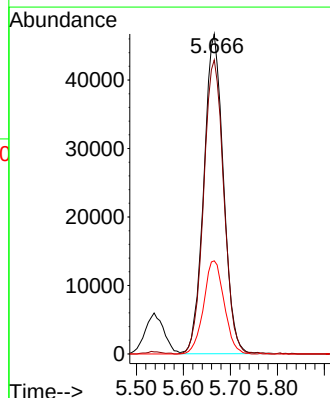
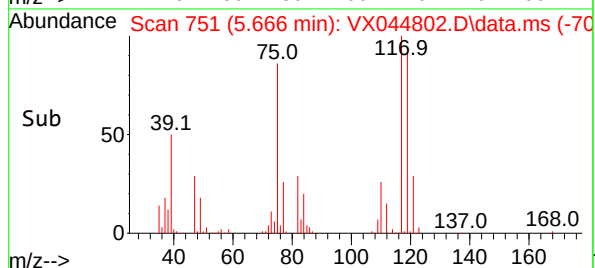
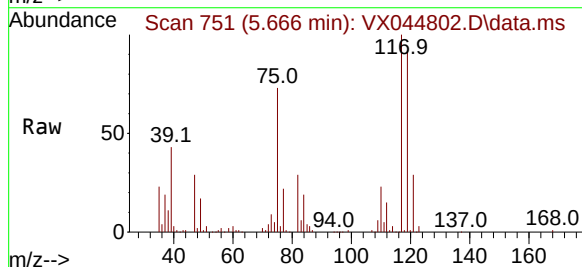
Tgt Ion:117 Resp: 135277

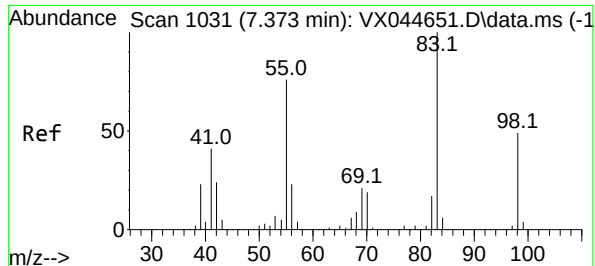
Ion Ratio Lower Upper

117 100

119 91.9 76.0 114.0

121 29.2 24.6 36.8





#39

Methylcyclohexane

Concen: 53.731 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 18779

Ion Ratio Lower Upper

83 100

55 74.7 60.5 90.7

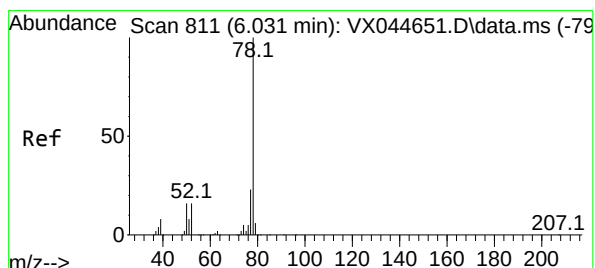
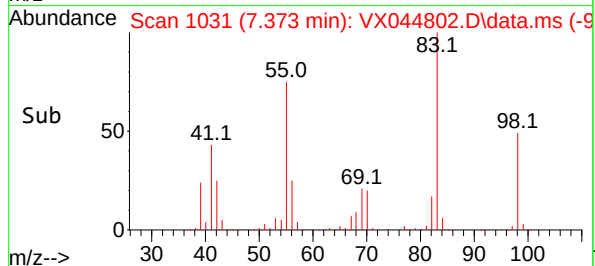
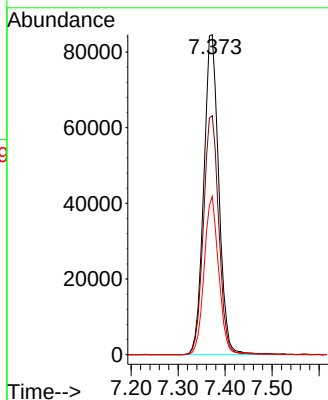
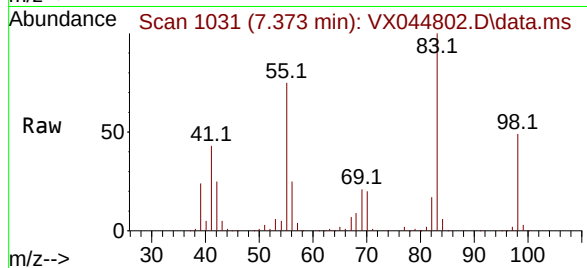
98 49.5 39.0 58.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#40

Benzene

Concen: 52.535 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.006 min

Lab File: VX044802.D

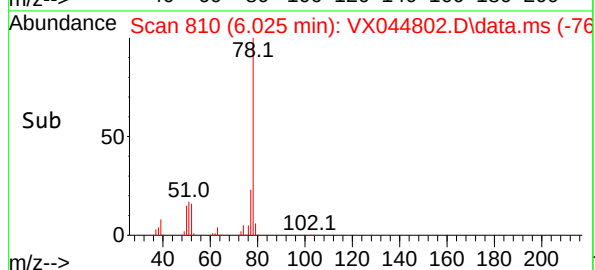
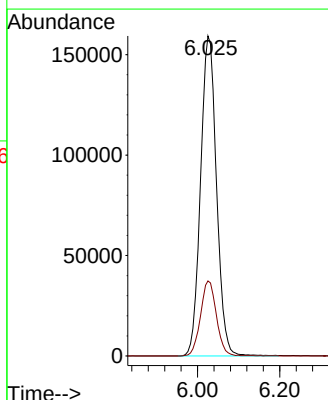
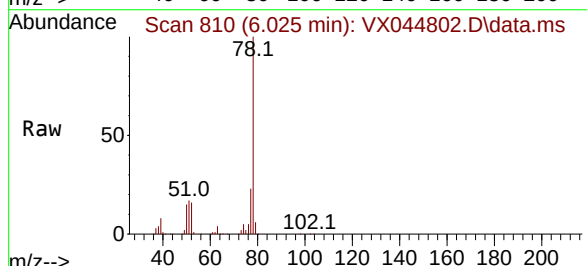
Acq: 03 Feb 2025 09:52

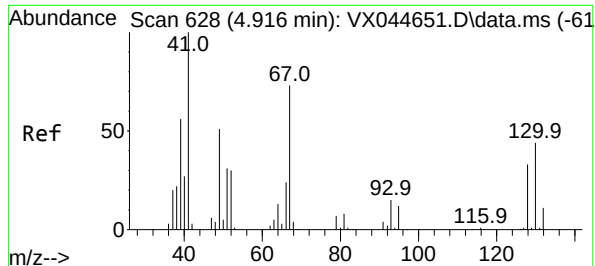
Tgt Ion: 78 Resp: 428598

Ion Ratio Lower Upper

78 100

77 23.4 18.7 28.1





#41

Methacrylonitrile

Concen: 50.508 ug/l

RT: 4.910 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 82519

Ion Ratio Lower Upper

41 100

39 55.4 44.4 66.6

67 74.9 60.6 90.8

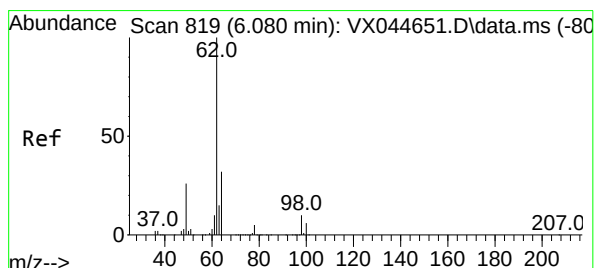
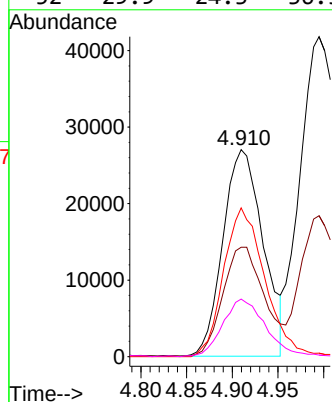
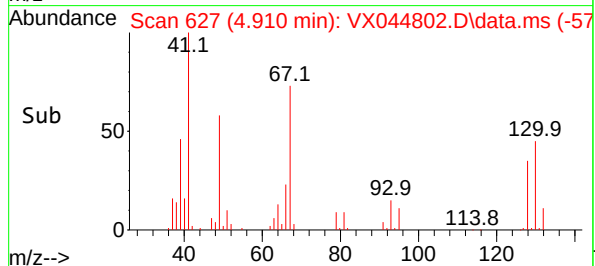
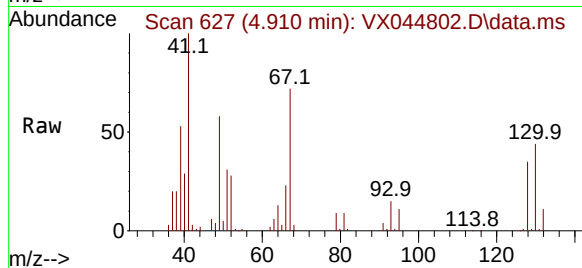
52 29.9 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#42

1,2-Dichloroethane

Concen: 45.355 ug/l

RT: 6.074 min Scan# 818

Delta R.T. -0.006 min

Lab File: VX044802.D

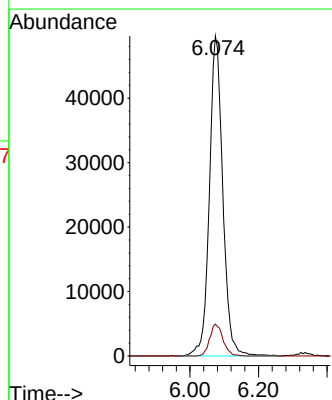
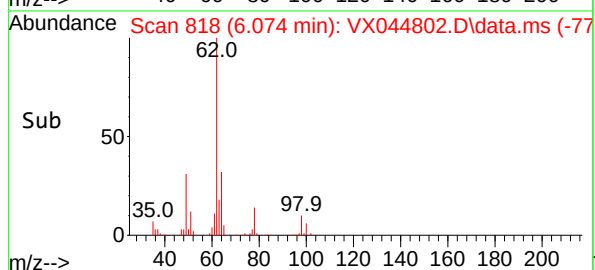
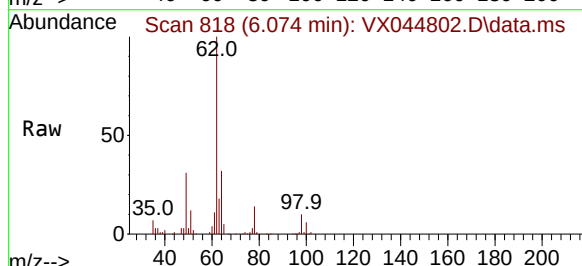
Acq: 03 Feb 2025 09:52

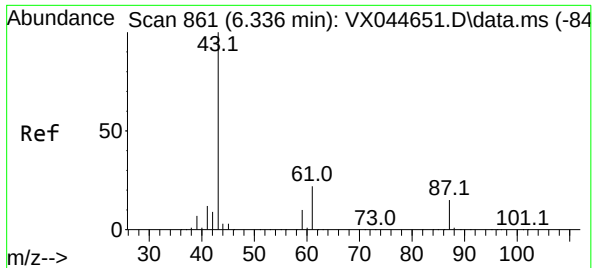
Tgt Ion: 62 Resp: 135051

Ion Ratio Lower Upper

62 100

98 9.8 0.0 19.4





#43

Isopropyl Acetate

Concen: 49.187 ug/l

RT: 6.330 min Scan# 861

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 253694

Ion Ratio Lower Upper

43 100

61 20.5 16.6 24.8

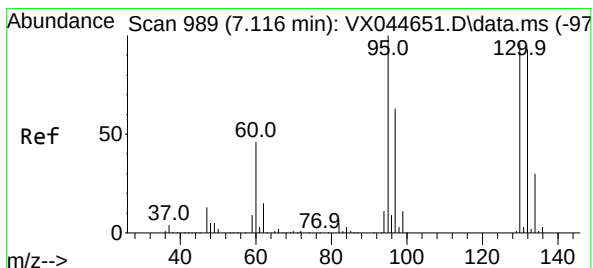
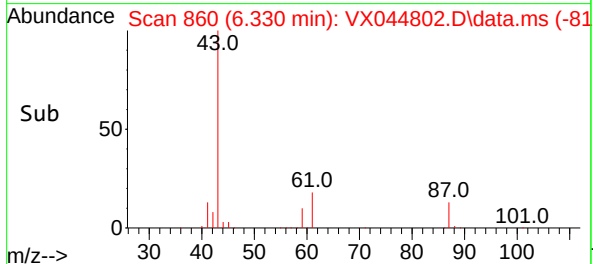
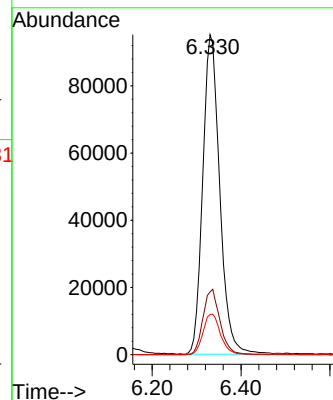
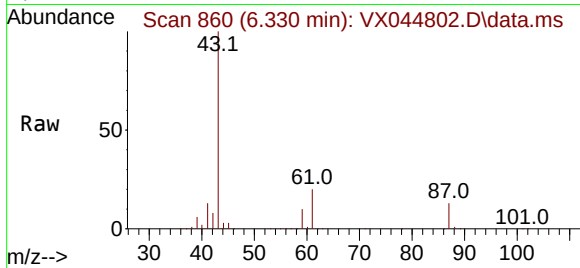
87 13.0 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#44

Trichloroethene

Concen: 51.104 ug/l

RT: 7.117 min Scan# 989

Delta R.T. 0.000 min

Lab File: VX044802.D

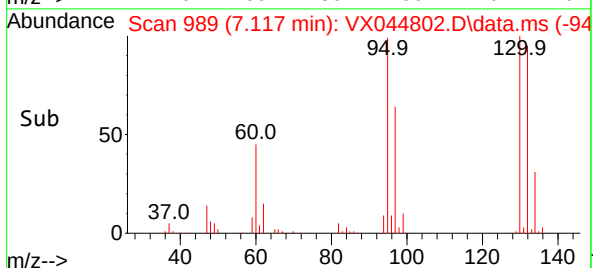
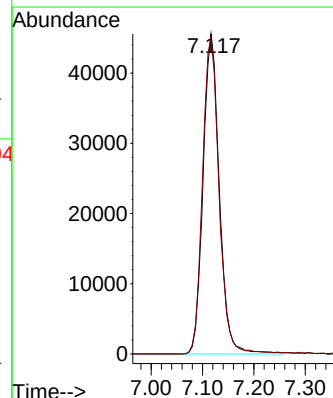
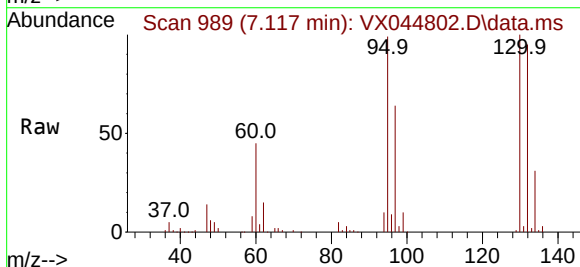
Acq: 03 Feb 2025 09:52

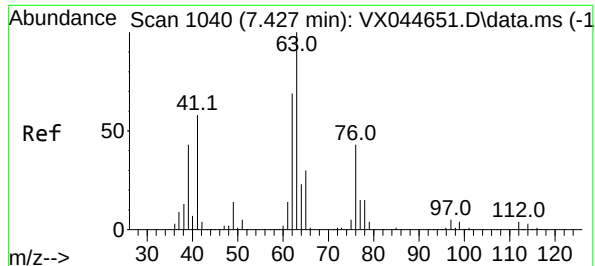
Tgt Ion:130 Resp: 100231

Ion Ratio Lower Upper

130 100

95 99.0 0.0 208.2





#45

1,2-Dichloropropane

Concen: 53.206 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 109264

Ion Ratio Lower Upper

63 100

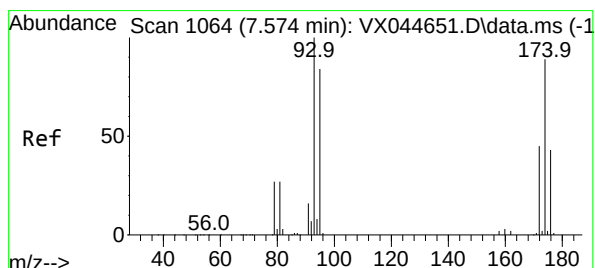
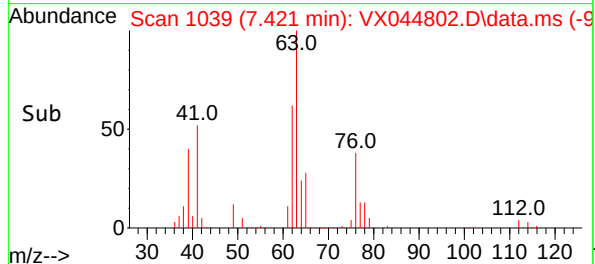
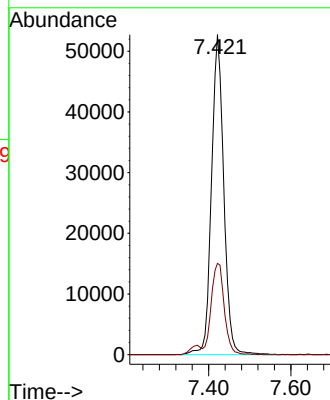
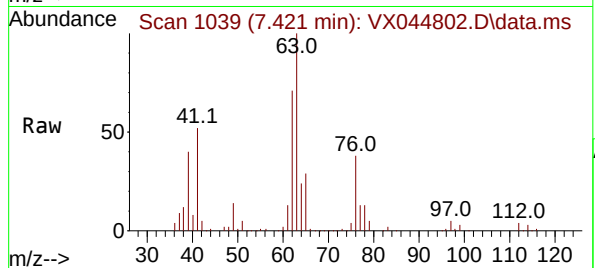
65 28.6 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#46

Dibromomethane

Concen: 47.313 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

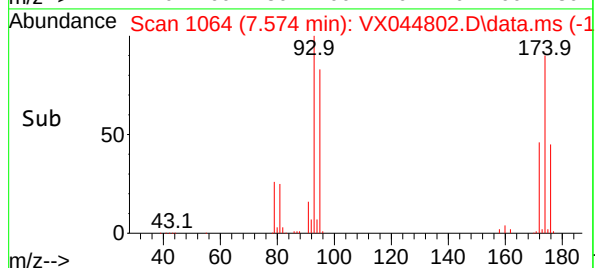
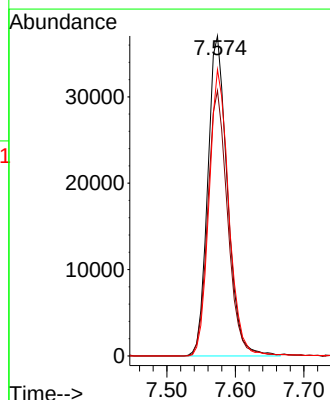
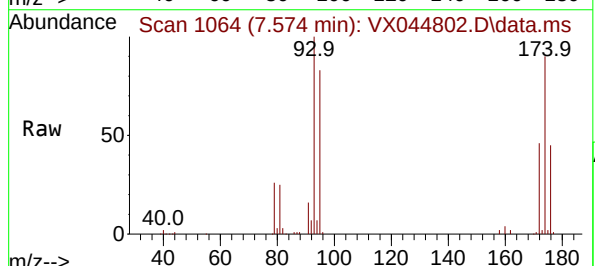
Tgt Ion: 93 Resp: 73965

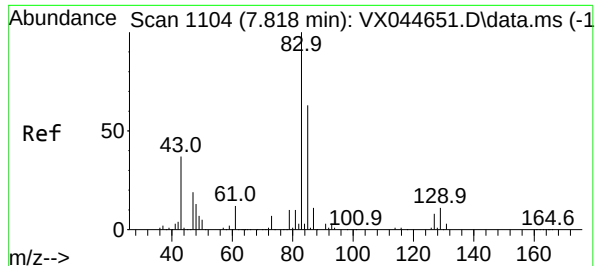
Ion Ratio Lower Upper

93 100

95 84.2 66.4 99.6

174 89.9 72.0 108.0





#47

Bromodichloromethane

Concen: 46.626 ug/l

RT: 7.812 min Scan# 1103

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 14948

Ion Ratio Lower Upper

83 100

85 63.6 50.1 75.1

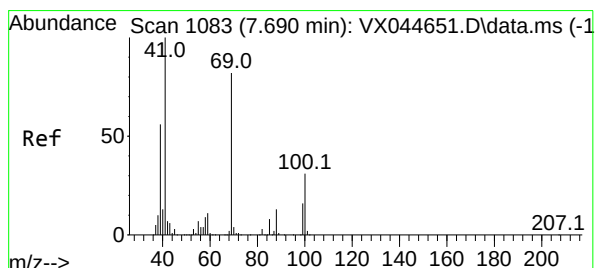
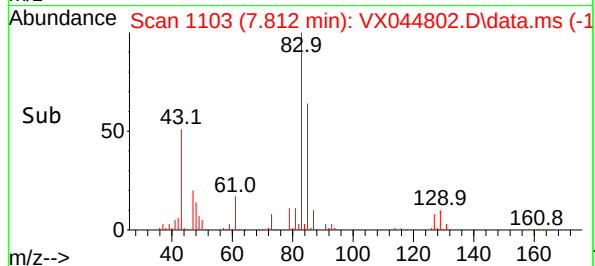
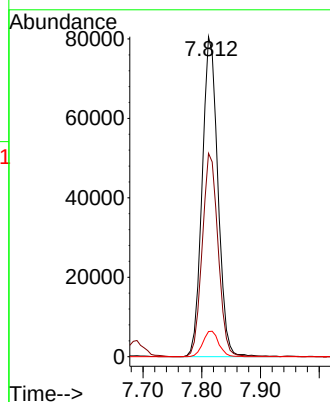
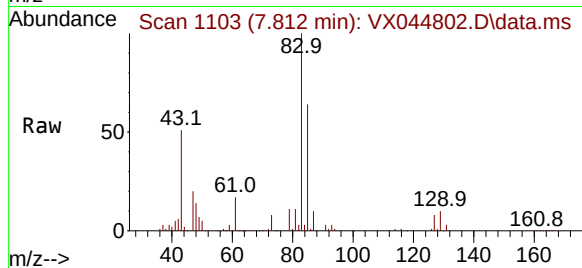
127 7.9 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#48

Methyl methacrylate

Concen: 49.744 ug/l

RT: 7.684 min Scan# 1082

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

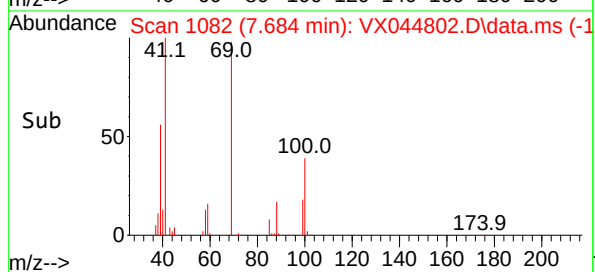
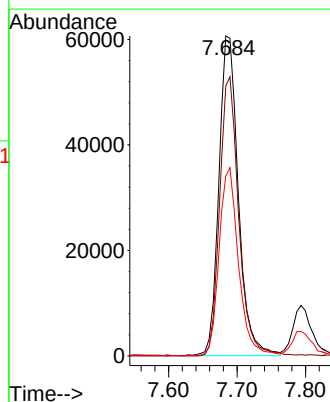
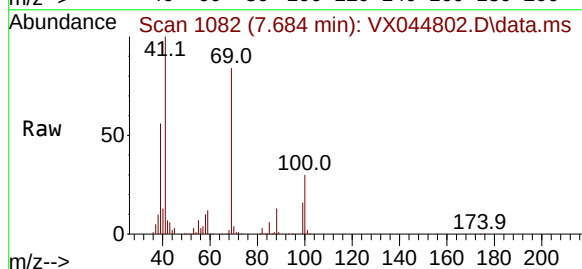
Tgt Ion: 41 Resp: 119095

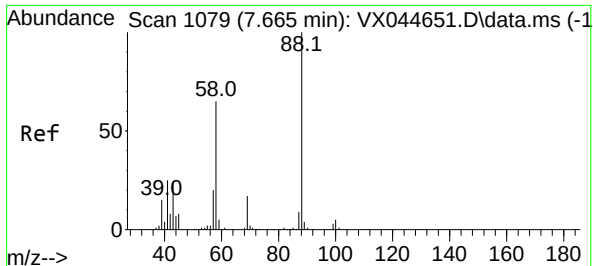
Ion Ratio Lower Upper

41 100

69 85.8 66.8 100.2

39 58.5 47.4 71.0





#49

1,4-Dioxane

Concen: 903.978 ug/l

RT: 7.659 min Scan# 1079

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 45154

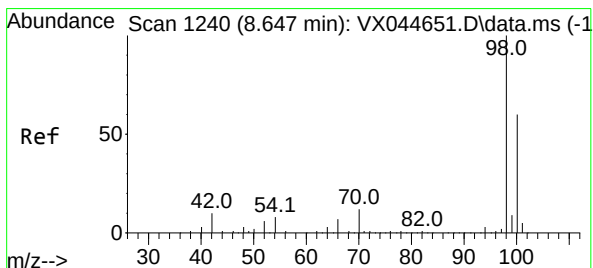
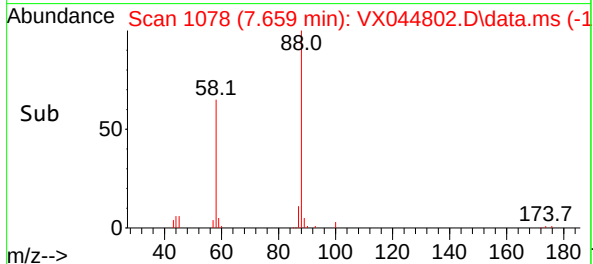
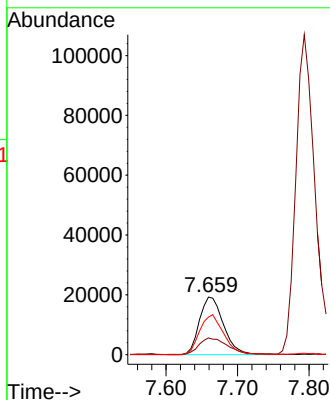
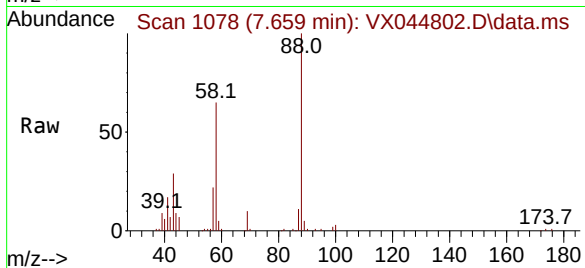
Ion	Ratio	Lower	Upper
88	100		
43	33.9	27.0	40.4
58	69.5	55.8	83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#50

Toluene-d8

Concen: 56.382 ug/l

RT: 8.641 min Scan# 1239

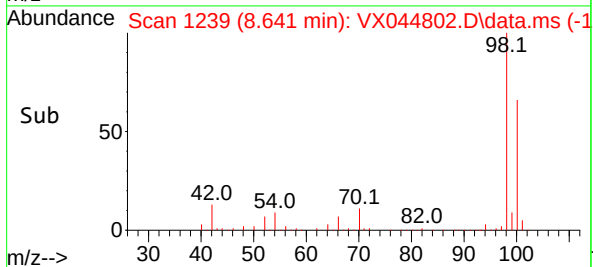
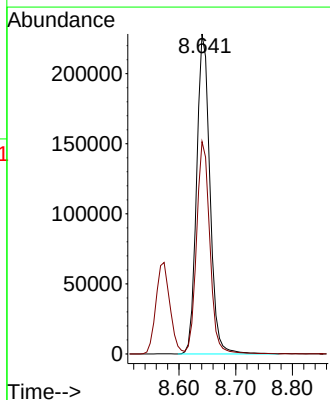
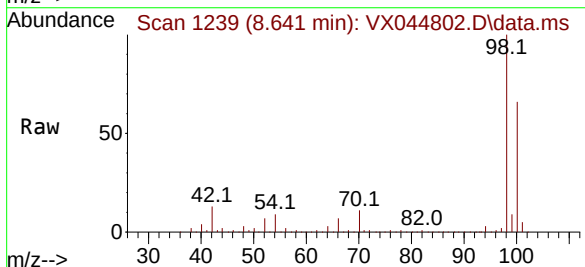
Delta R.T. -0.006 min

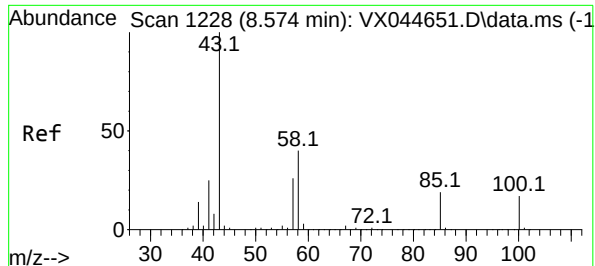
Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Tgt Ion: 98 Resp: 371824

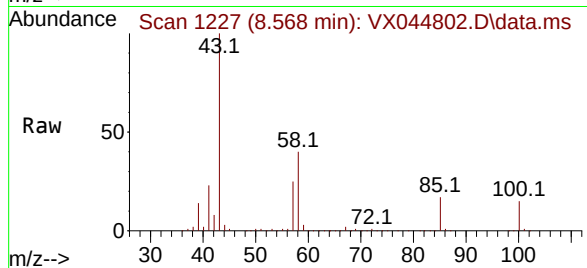
Ion	Ratio	Lower	Upper
98	100		
100	66.0	53.2	79.8





#51
4-Methyl-2-Pentanone
Concen: 257.519 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. -0.006 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

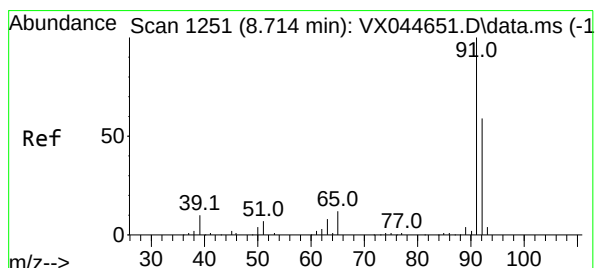
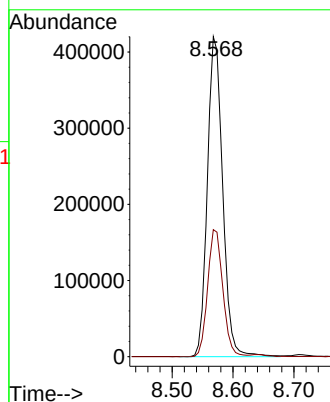
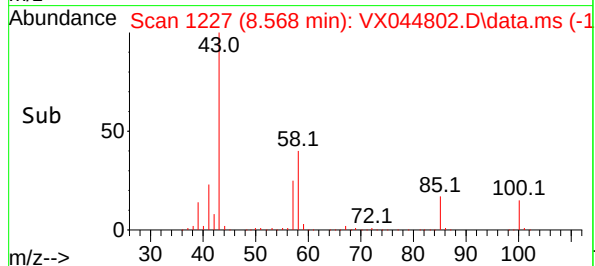
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 734014
Ion Ratio Lower Upper
43 100
58 39.5 31.9 47.9

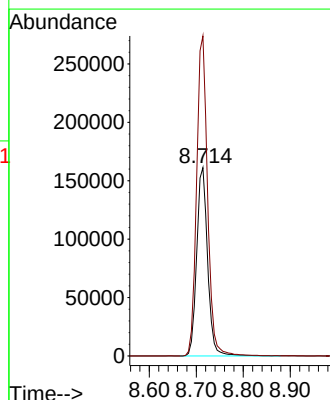
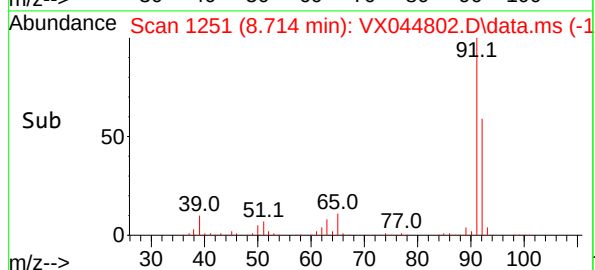
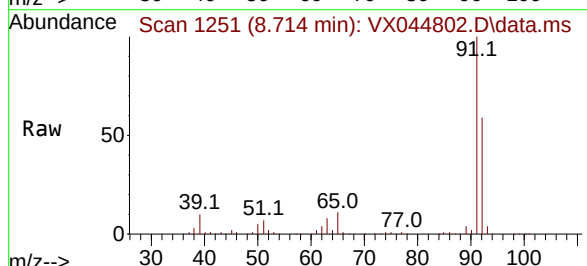
Manual Integrations
APPROVED

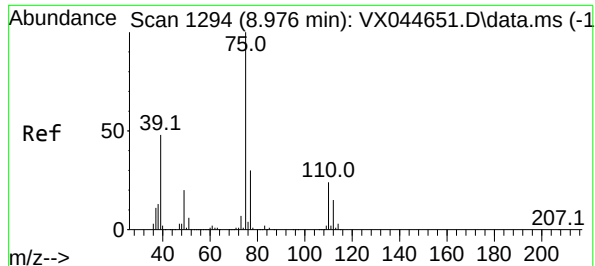
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#52
Toluene
Concen: 52.403 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Tgt Ion: 92 Resp: 261673
Ion Ratio Lower Upper
92 100
91 170.5 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 48.158 ug/l

RT: 8.970 min Scan# 1294

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 15951

Ion Ratio Lower Upper

75 100

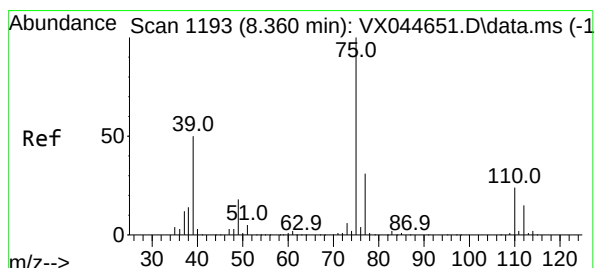
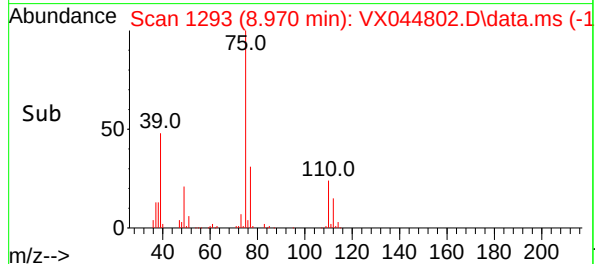
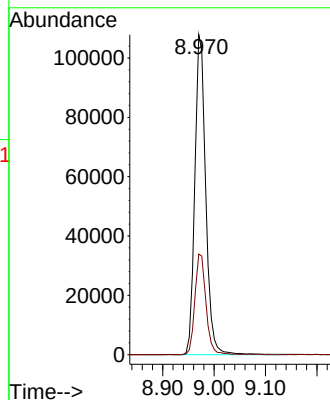
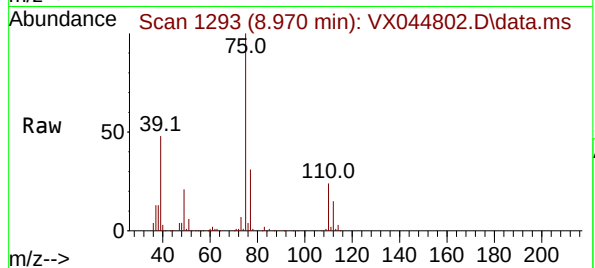
77 31.5 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#54

cis-1,3-Dichloropropene

Concen: 48.923 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

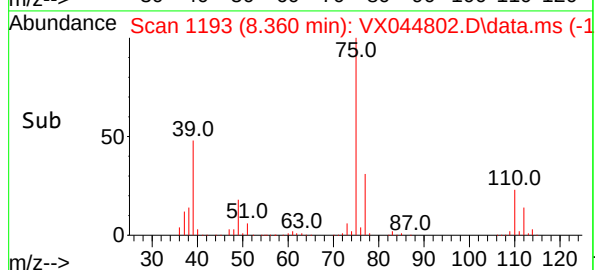
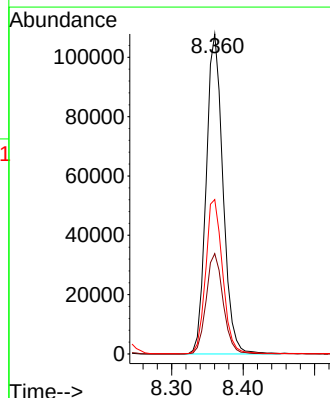
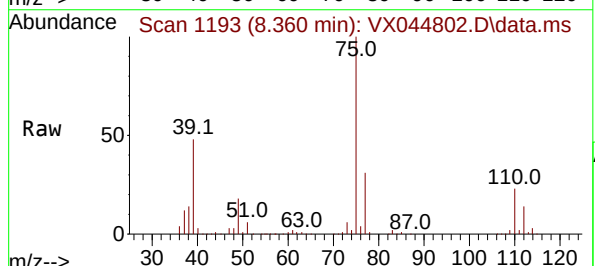
Tgt Ion: 75 Resp: 175713

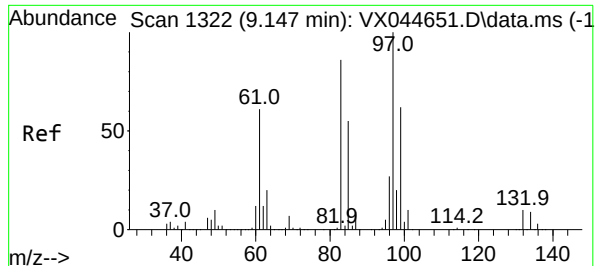
Ion Ratio Lower Upper

75 100

77 31.4 25.1 37.7

39 48.2 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 49.814 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 100638

Ion Ratio Lower Upper

97 100

83 87.8 68.8 103.2

85 57.4 43.7 65.5

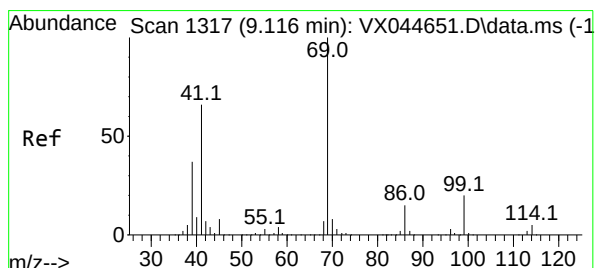
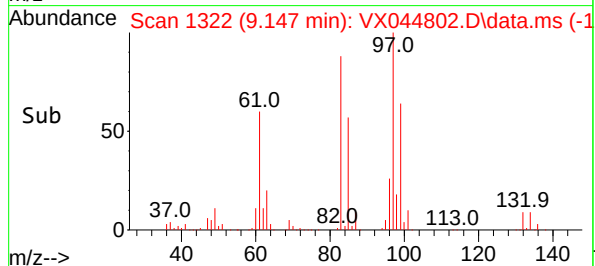
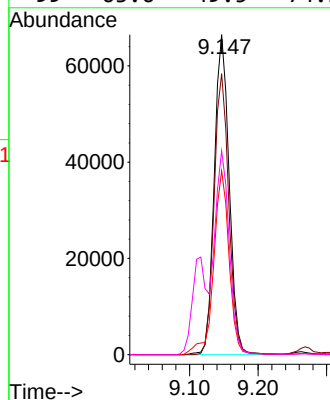
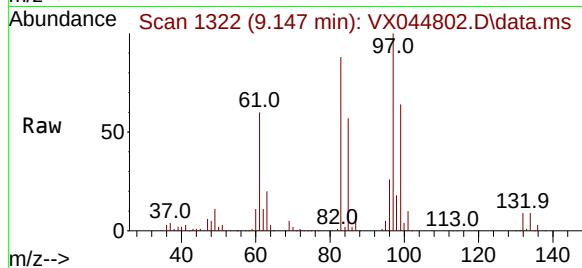
99 63.6 49.5 74.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#56

Ethyl methacrylate

Concen: 49.203 ug/l

RT: 9.110 min Scan# 1316

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

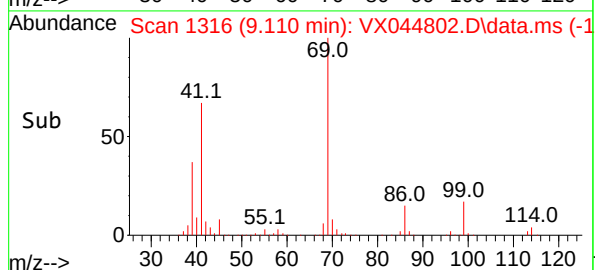
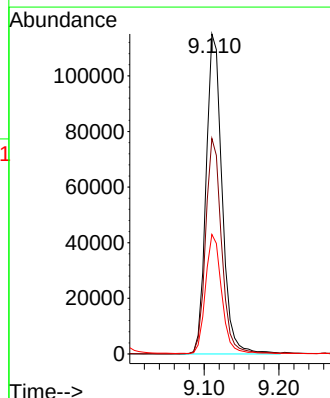
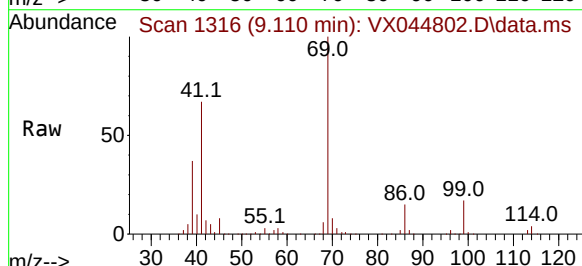
Tgt Ion: 69 Resp: 170918

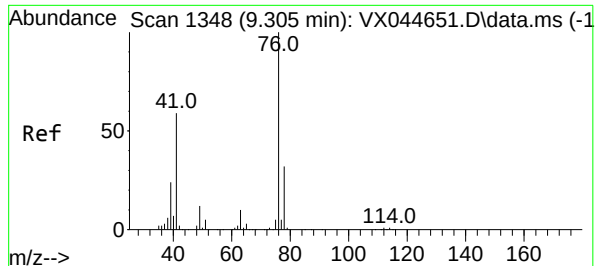
Ion Ratio Lower Upper

69 100

41 67.3 53.2 79.8

39 37.4 30.2 45.2





#57

1,3-Dichloropropane

Concen: 50.198 ug/l

RT: 9.305 min Scan# 1348

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 172698

Ion Ratio Lower Upper

76 100

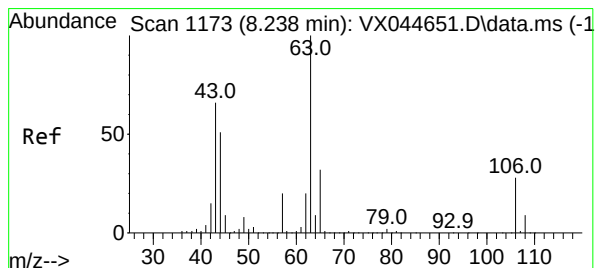
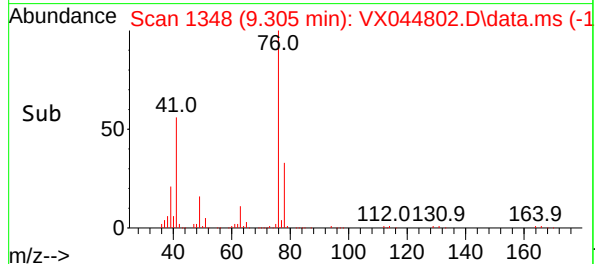
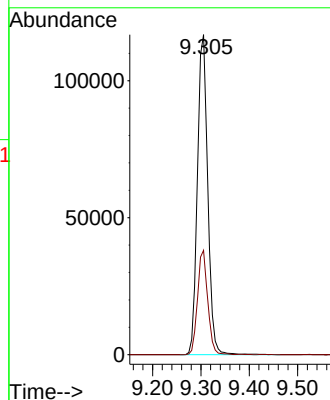
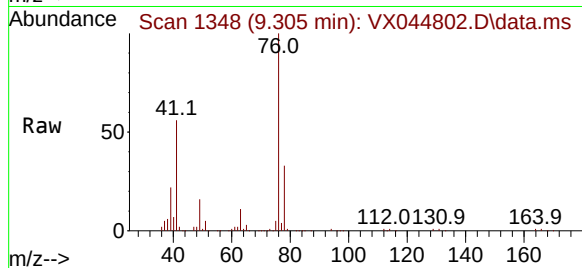
78 32.1 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#58

2-Chloroethyl Vinyl ether

Concen: 250.814 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044802.D

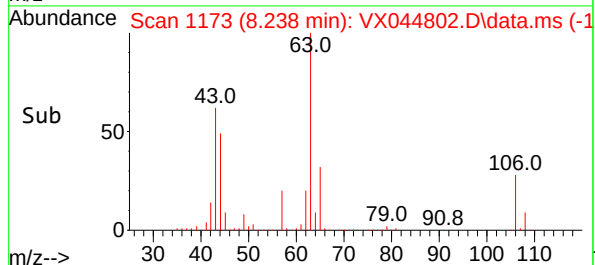
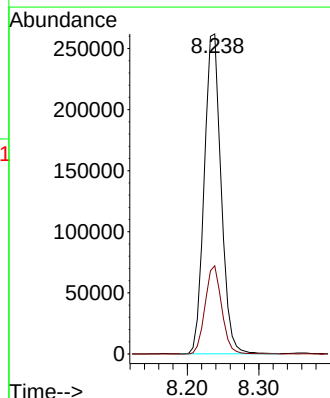
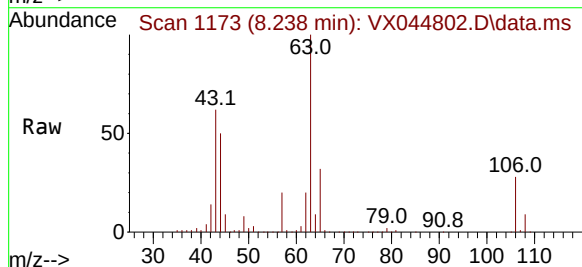
Acq: 03 Feb 2025 09:52

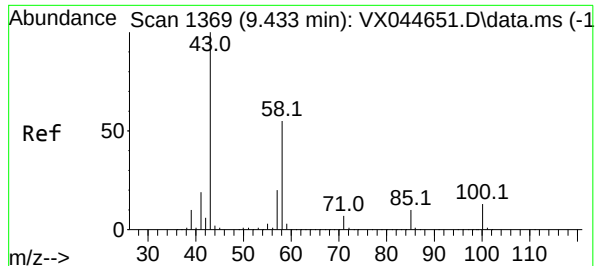
Tgt Ion: 63 Resp: 427737

Ion Ratio Lower Upper

63 100

106 27.2 23.0 34.6





#59

2-Hexanone

Concen: 253.231 ug/l

RT: 9.427 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 53102

Ion Ratio Lower Upper

43

100

58

55.3

27.8

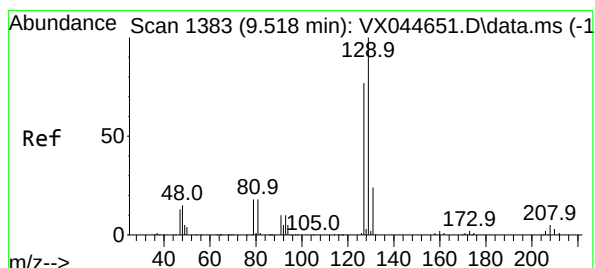
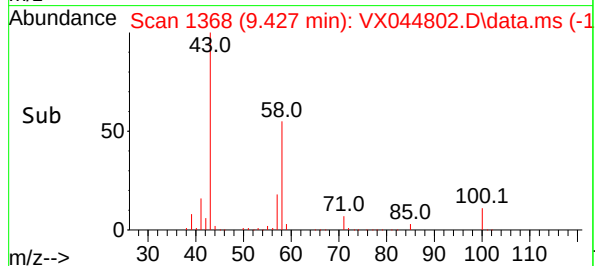
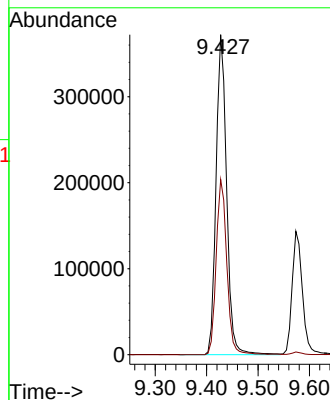
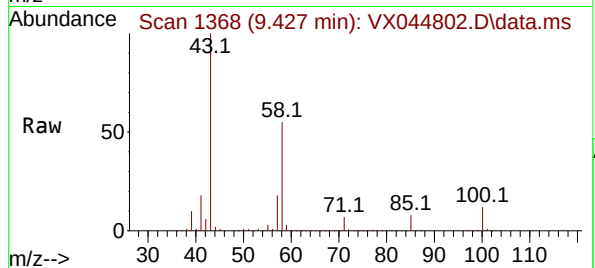
83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#60

Dibromochloromethane

Concen: 47.219 ug/l

RT: 9.513 min Scan# 1382

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Tgt Ion:129 Resp: 111967

Ion Ratio Lower Upper

129

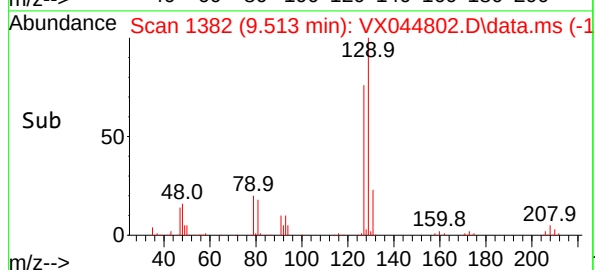
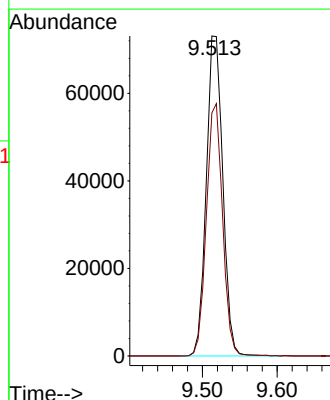
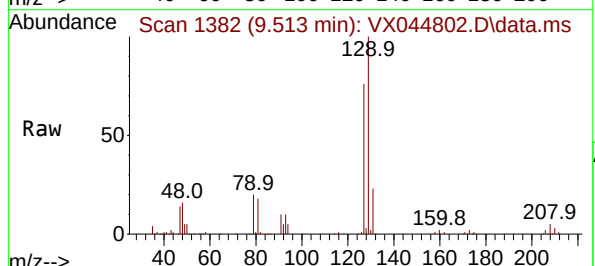
100

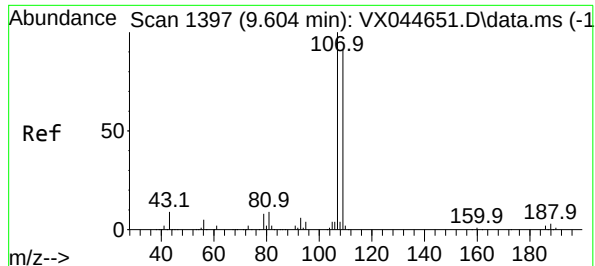
127

77.4

38.5

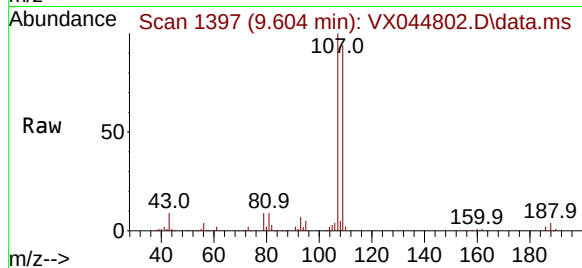
115.5





#61
1,2-Dibromoethane
Concen: 48.405 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

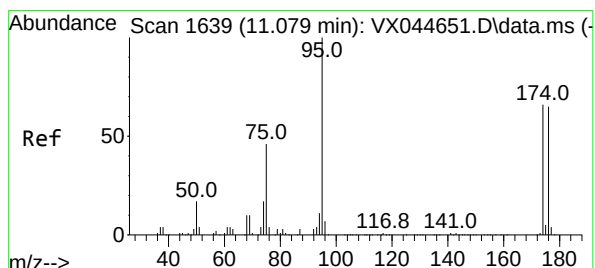
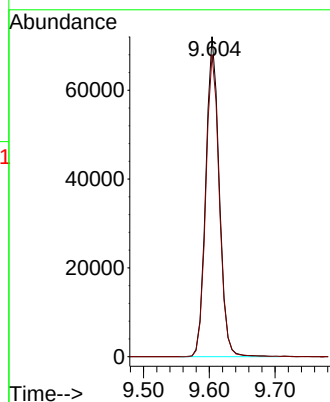
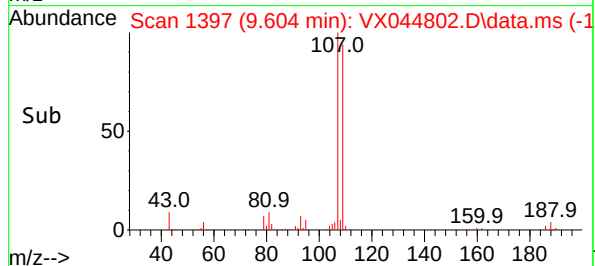
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



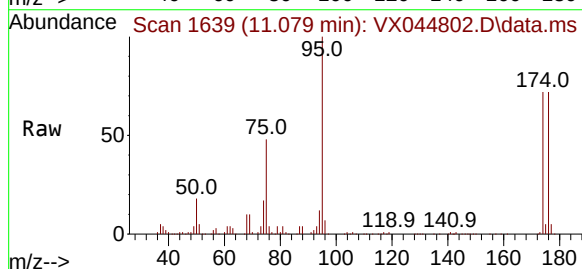
Tgt Ion:107 Resp: 102485
Ion Ratio Lower Upper
107 100
109 94.9 75.3 112.9

Manual Integrations
APPROVED

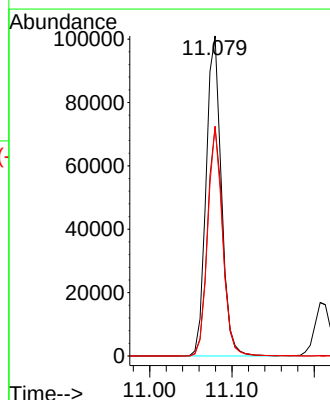
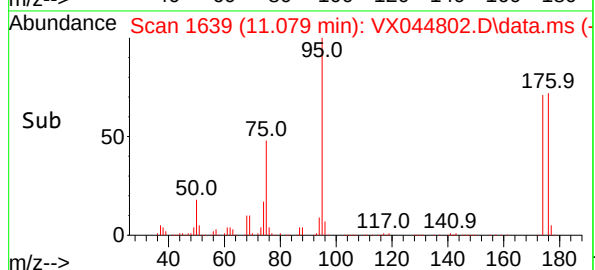
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

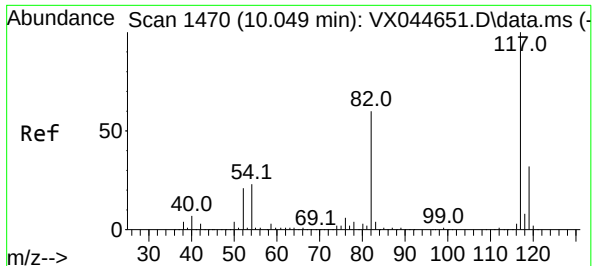


#62
4-Bromofluorobenzene
Concen: 52.925 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52



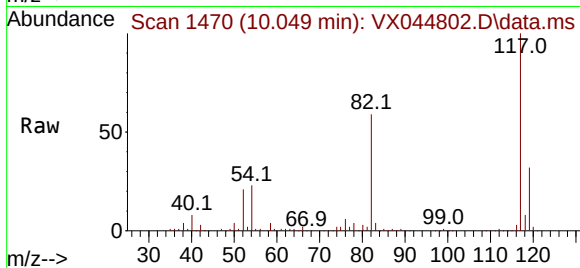
Tgt Ion: 95 Resp: 130114
Ion Ratio Lower Upper
95 100
174 71.5 0.0 133.0
176 69.4 0.0 129.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

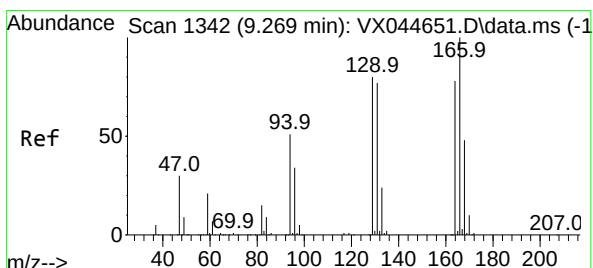
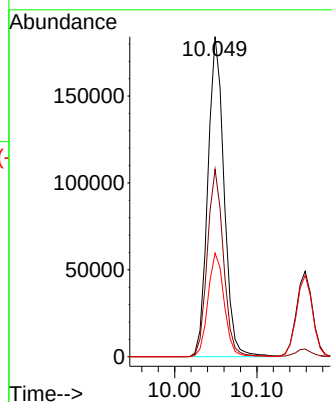
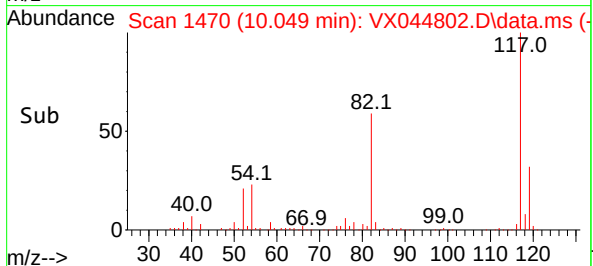
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 252415
Ion Ratio Lower Upper
117 100
82 58.6 47.6 71.4
119 32.3 25.4 38.2

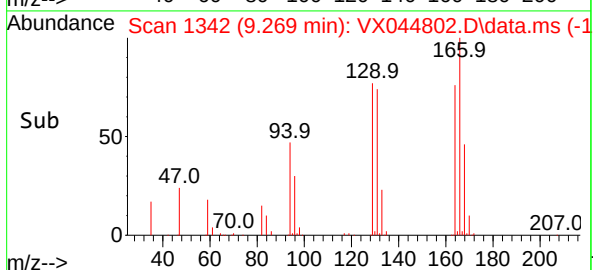
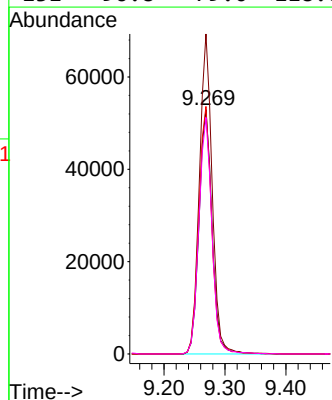
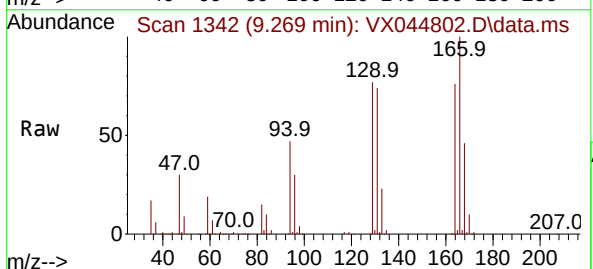
Manual Integrations
APPROVED

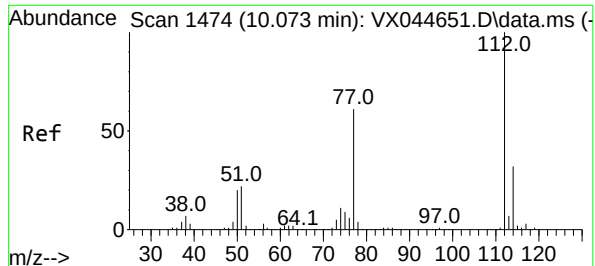
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#64
Tetrachloroethene
Concen: 49.701 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

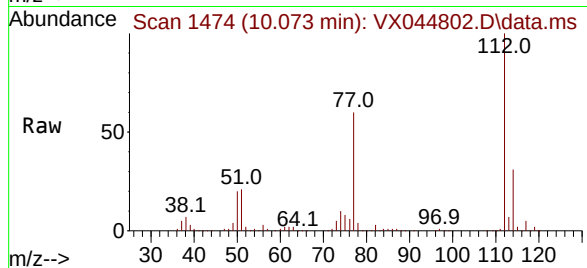
Tgt Ion:164 Resp: 78776
Ion Ratio Lower Upper
164 100
166 130.9 102.0 153.0
129 101.2 81.1 121.7
131 96.8 79.0 118.6





#65
Chlorobenzene
Concen: 51.839 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

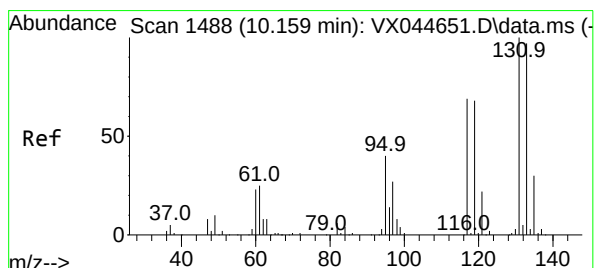
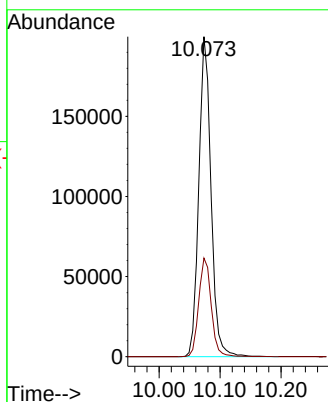
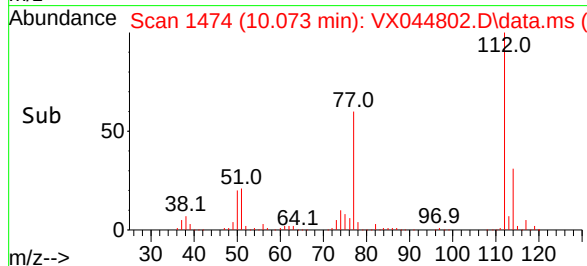
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



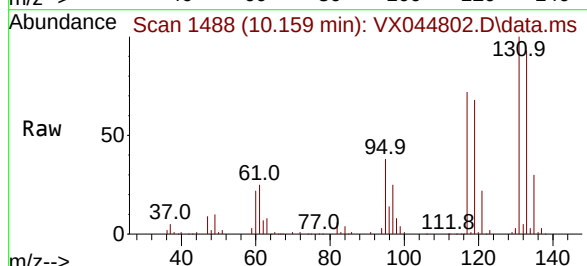
Tgt Ion:112 Resp: 277930
Ion Ratio Lower Upper
112 100
114 30.8 25.3 37.9

Manual Integrations
APPROVED

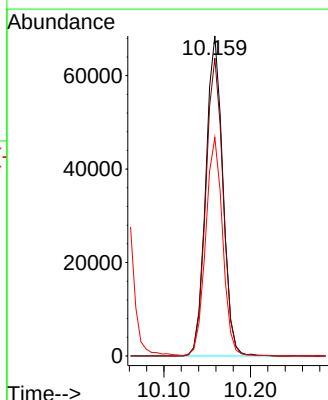
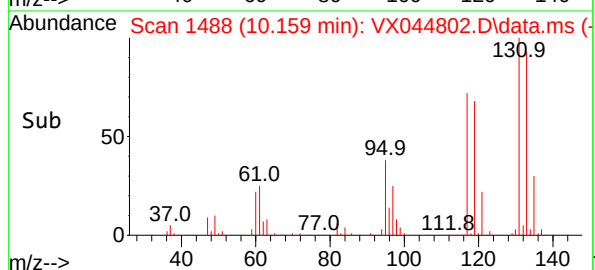
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

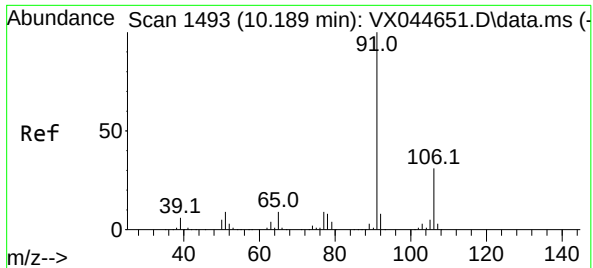


#66
1,1,1,2-Tetrachloroethane
Concen: 47.975 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52



Tgt Ion:131 Resp: 93479
Ion Ratio Lower Upper
131 100
133 94.4 47.8 143.3
119 68.3 33.4 100.2





#67

Ethyl Benzene

Concen: 53.125 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 49698

Ion Ratio Lower Upper

91 100

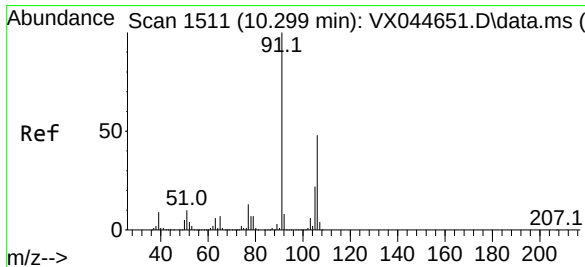
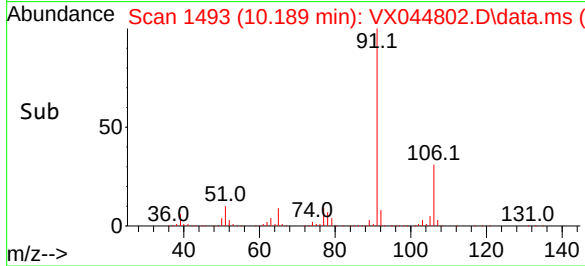
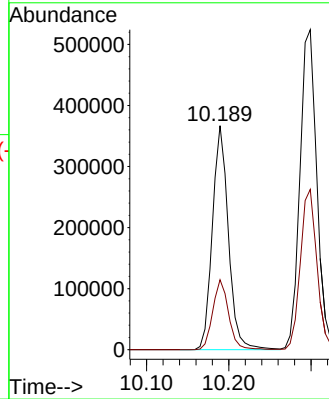
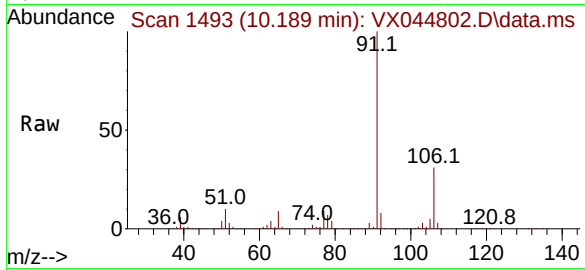
106 31.2 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#68

m/p-Xylenes

Concen: 107.068 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX044802.D

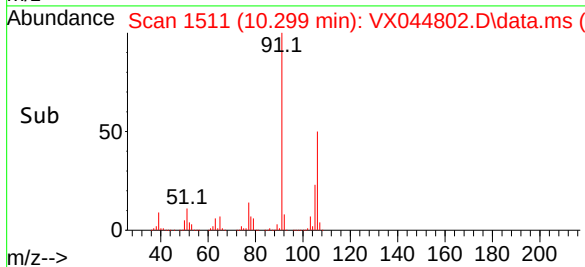
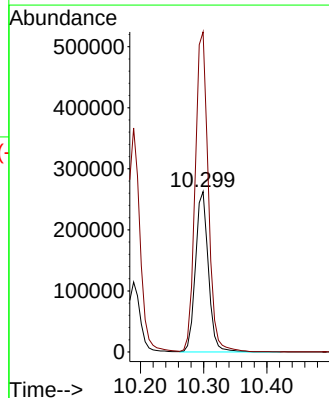
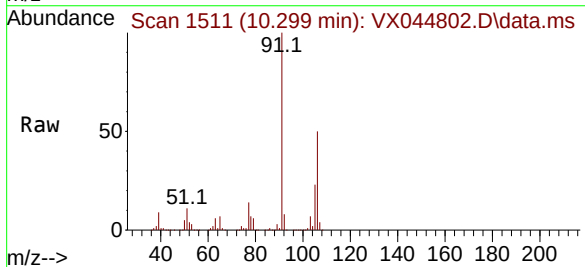
Acq: 03 Feb 2025 09:52

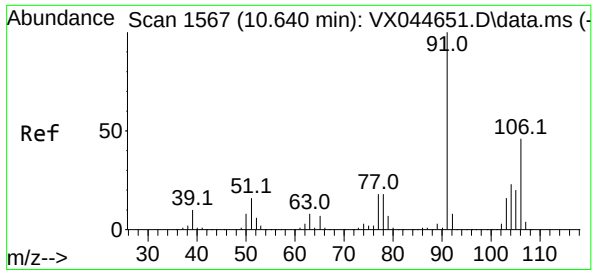
Tgt Ion:106 Resp: 371687

Ion Ratio Lower Upper

106 100

91 203.5 166.4 249.6





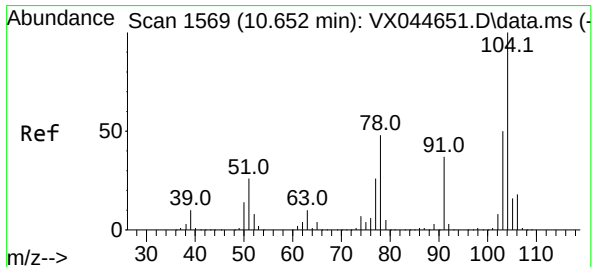
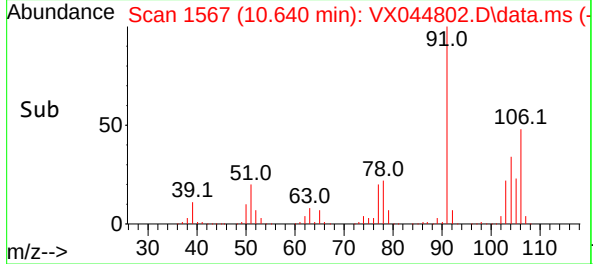
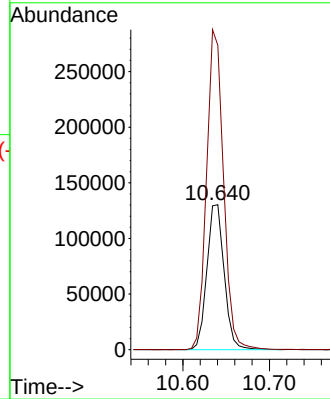
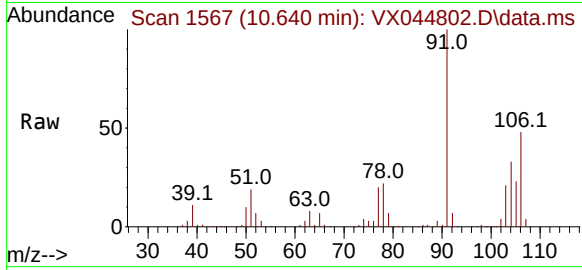
#69
o-Xylene
Concen: 51.643 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 18130
Ion Ratio Lower Upper
106 100
91 215.9 108.7 326.3

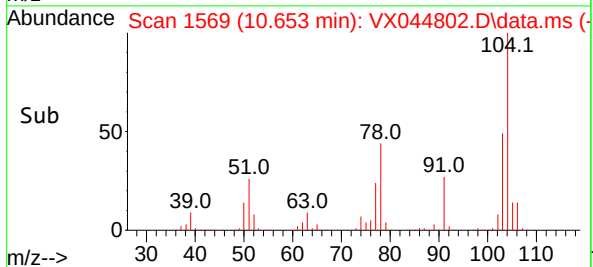
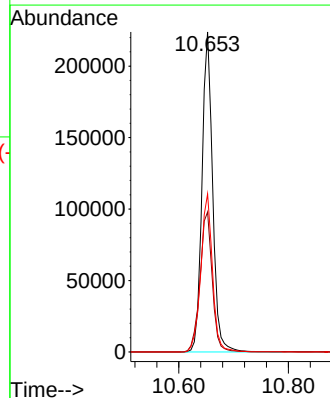
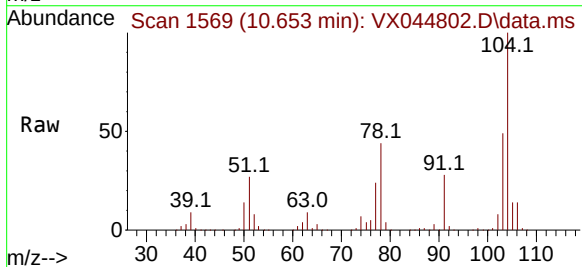
Manual Integrations
APPROVED

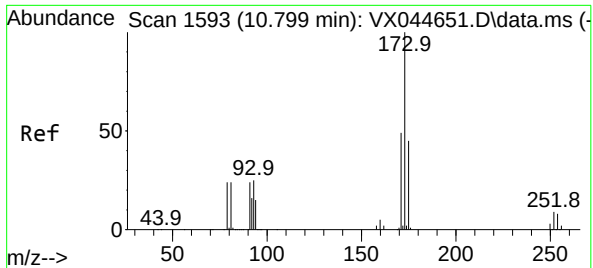
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#70
Styrene
Concen: 53.453 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

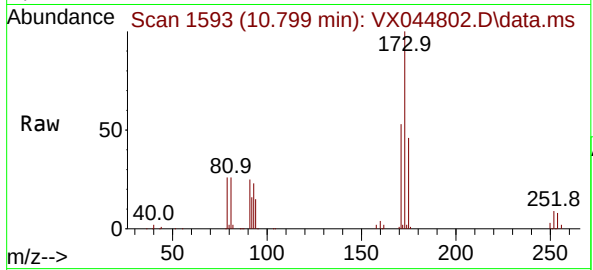
Tgt Ion:104 Resp: 302980
Ion Ratio Lower Upper
104 100
78 50.3 43.0 64.6
103 54.2 43.4 65.2





#71
Bromoform
Concen: 46.133 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

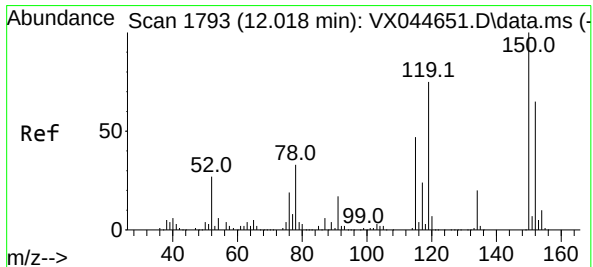
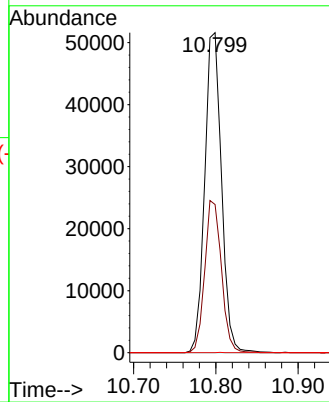
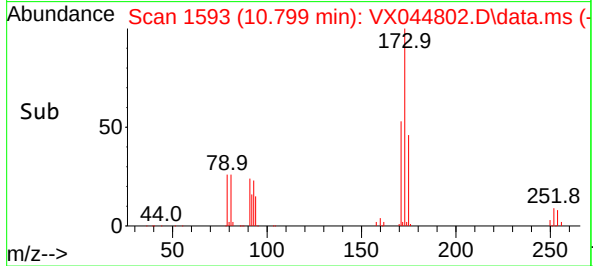
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:173 Resp: 7316
Ion Ratio Lower Upper
173 100
175 47.3 23.6 70.8
254 0.0 0.1 0.1

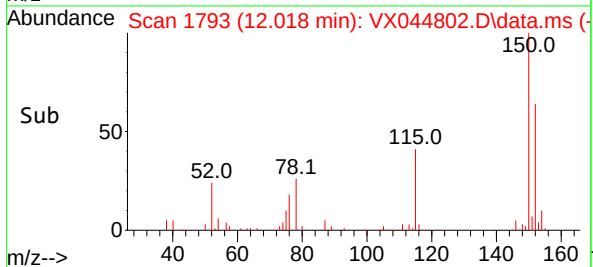
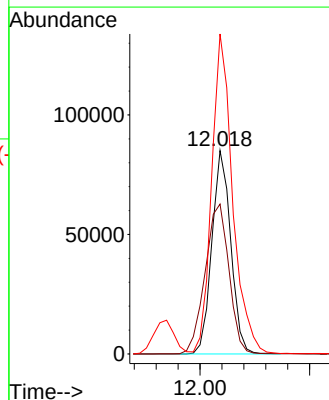
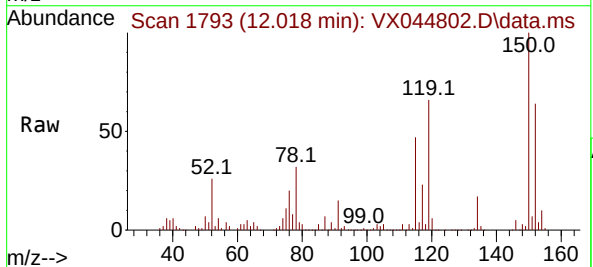
Manual Integrations
APPROVED

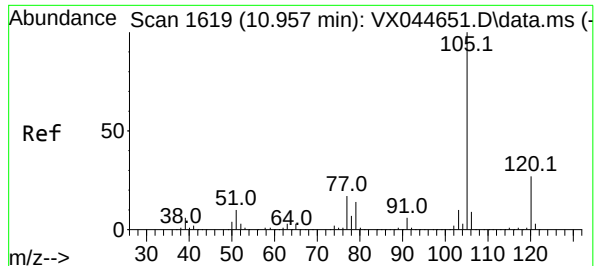
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

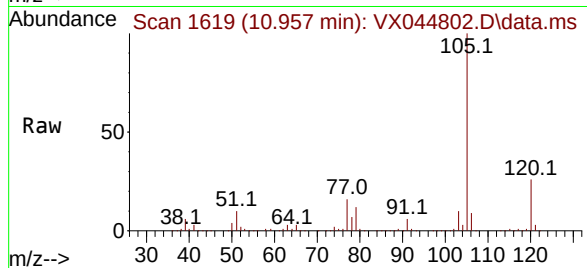
Tgt Ion:152 Resp: 101849
Ion Ratio Lower Upper
152 100
115 93.5 43.8 131.4
150 174.1 0.0 347.8





#73
Isopropylbenzene
Concen: 55.630 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

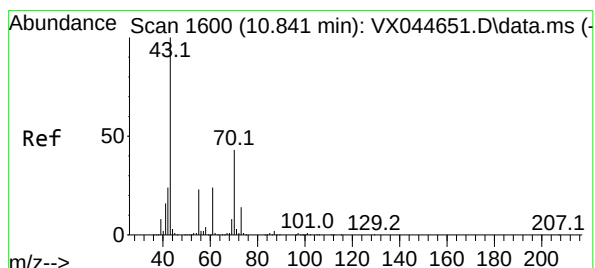
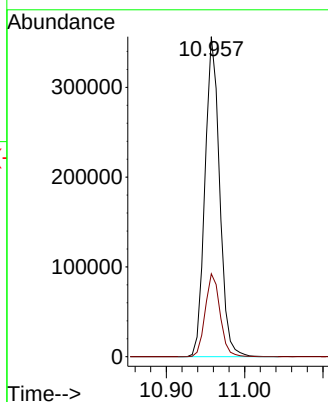
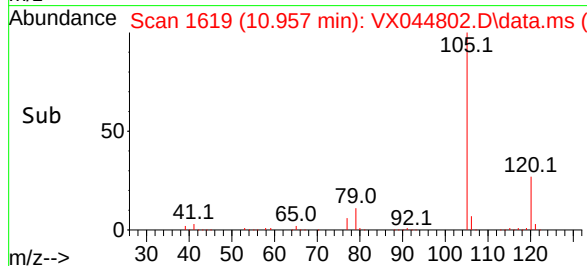
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



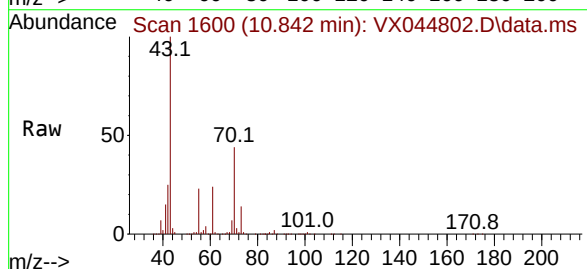
Tgt Ion:105 Resp: 462864
Ion Ratio Lower Upper
105 100
120 26.1 13.2 39.6

Manual Integrations
APPROVED

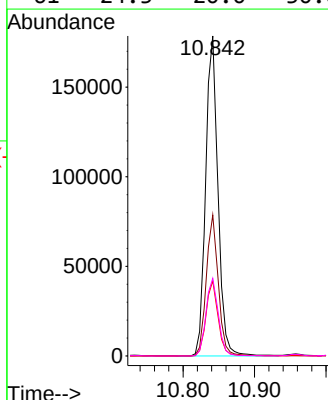
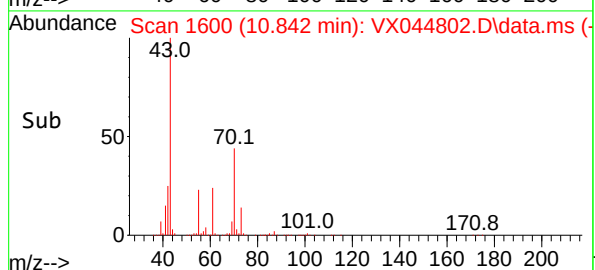
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

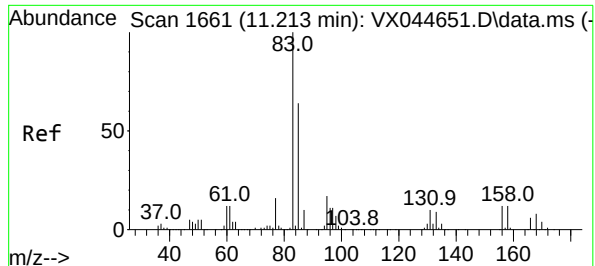


#74
N-ethyl acetate
Concen: 52.255 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52



Tgt Ion: 43 Resp: 214304
Ion Ratio Lower Upper
43 100
70 43.0 35.2 52.8
55 23.1 19.0 28.4
61 24.3 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 52.692 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 151410

Ion Ratio Lower Upper

83 100

131 9.0 5.0 14.9

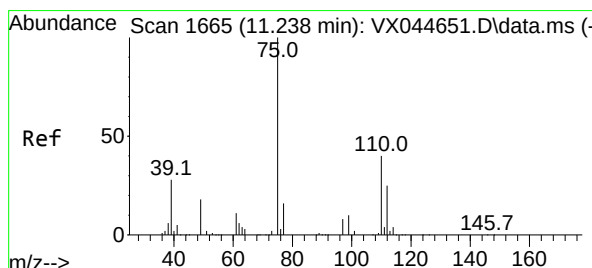
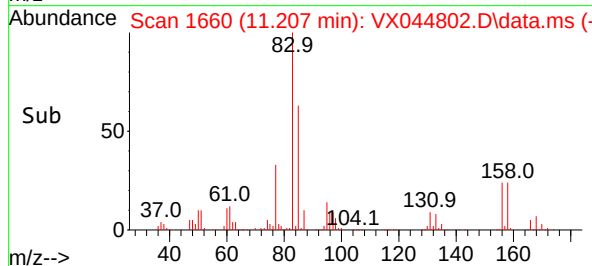
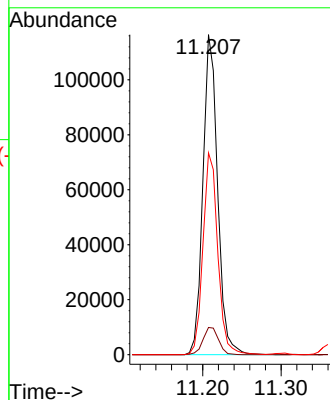
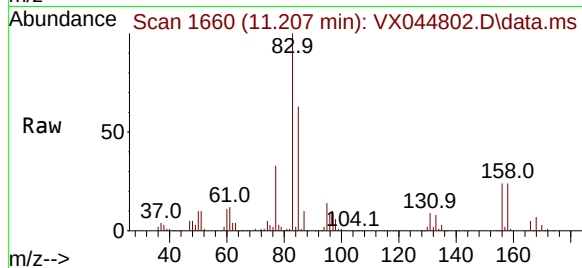
85 63.5 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#76

1,2,3-Trichloropropane

Concen: 51.297 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX044802.D

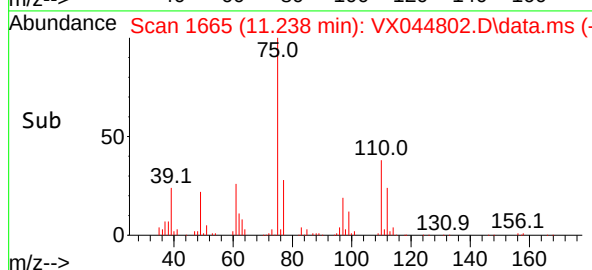
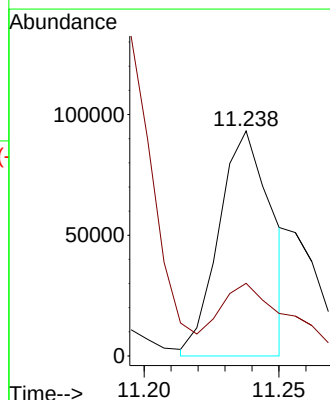
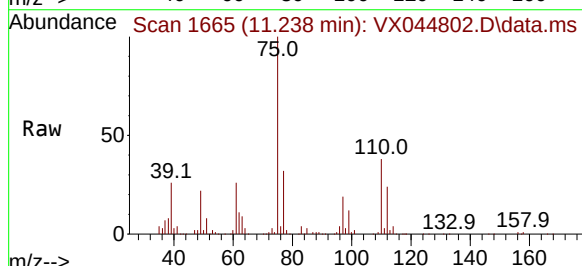
Acq: 03 Feb 2025 09:52

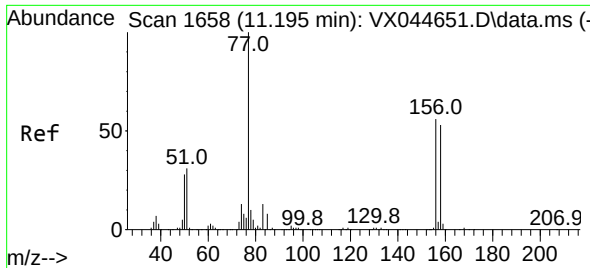
Tgt Ion: 75 Resp: 126793

Ion Ratio Lower Upper

75 100

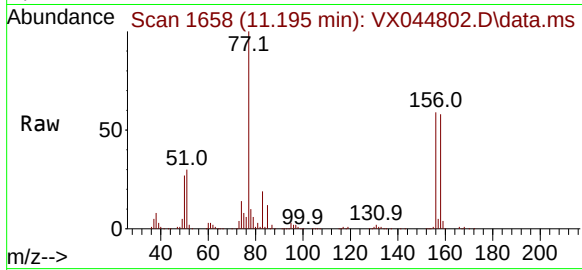
77 42.9 23.4 70.2





#77
Bromobenzene
Concen: 53.164 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

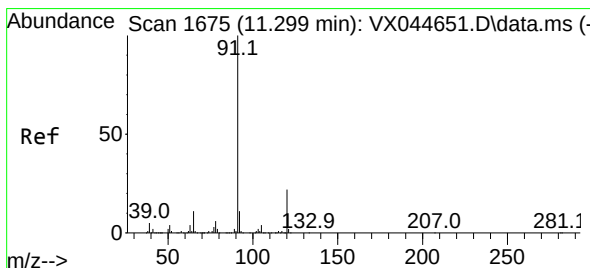
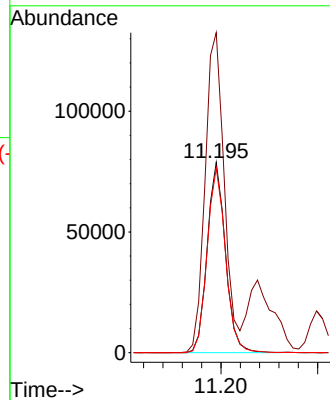
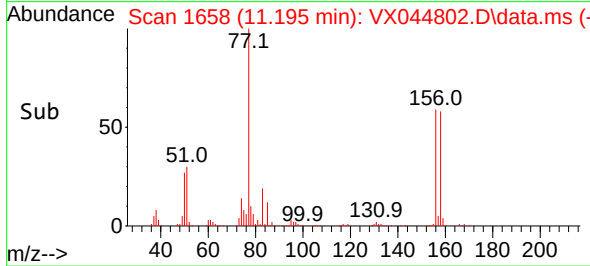
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



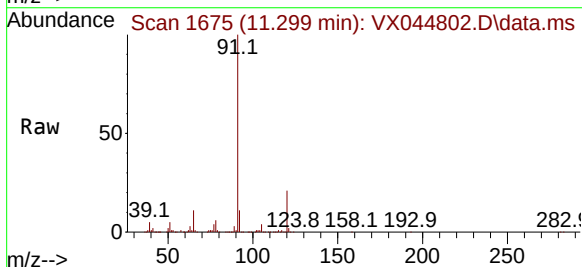
Tgt Ion:156 Resp: 103391
Ion Ratio Lower Upper
156 100
77 176.5 90.3 271.0
158 97.8 48.4 145.3

Manual Integrations
APPROVED

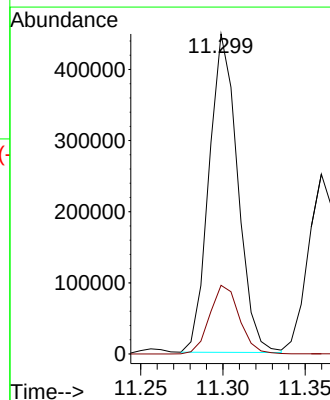
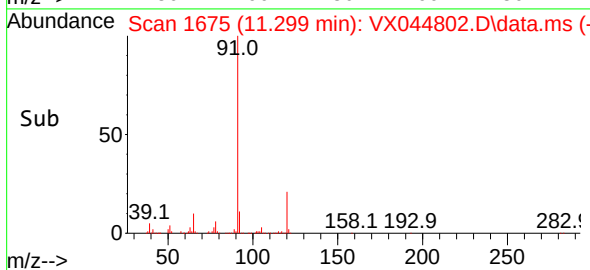
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

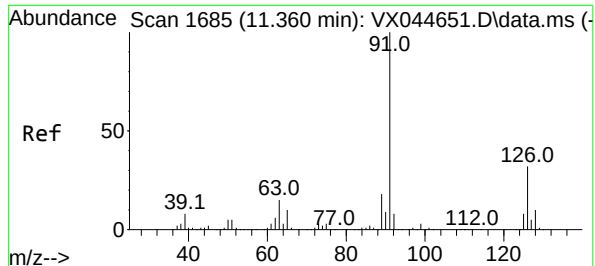


#78
n-propylbenzene
Concen: 59.244 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52



Tgt Ion: 91 Resp: 543610
Ion Ratio Lower Upper
91 100
120 22.3 11.4 34.1





#79

2-Chlorotoluene

Concen: 53.730 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 31847

Ion Ratio Lower Upper

91 100

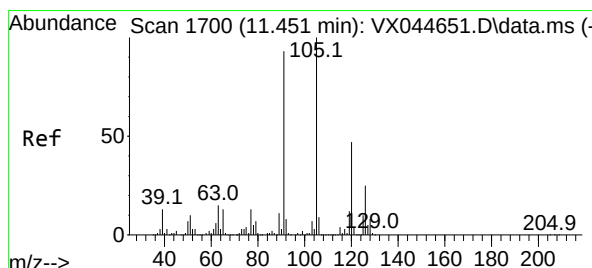
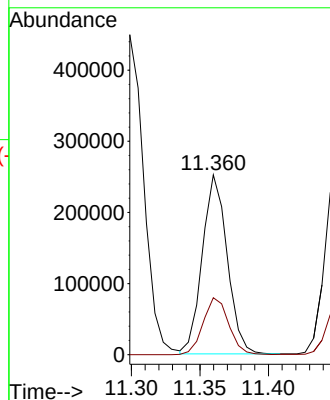
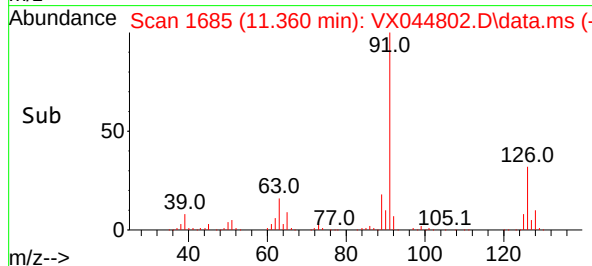
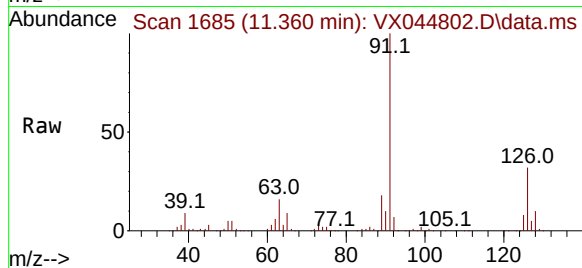
126 32.7 16.2 48.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#80

1,3,5-Trimethylbenzene

Concen: 57.296 ug/l

RT: 11.445 min Scan# 1699

Delta R.T. -0.006 min

Lab File: VX044802.D

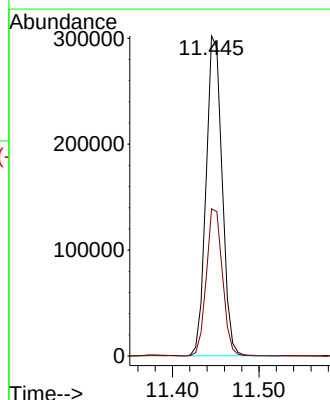
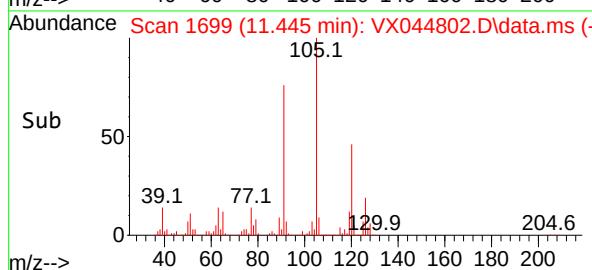
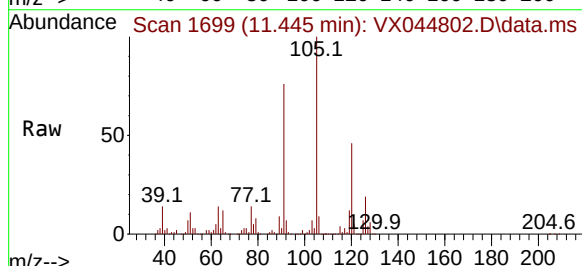
Acq: 03 Feb 2025 09:52

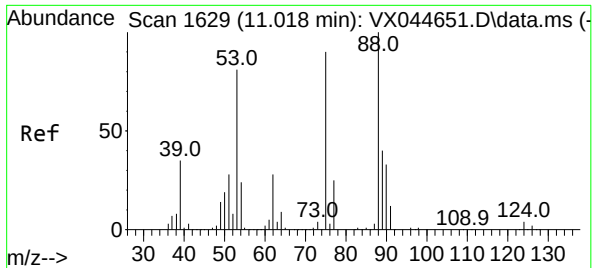
Tgt Ion:105 Resp: 388082

Ion Ratio Lower Upper

105 100

120 46.4 23.7 71.1





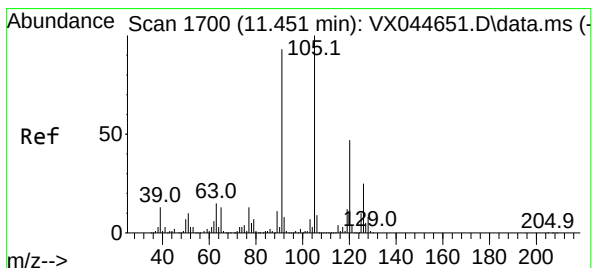
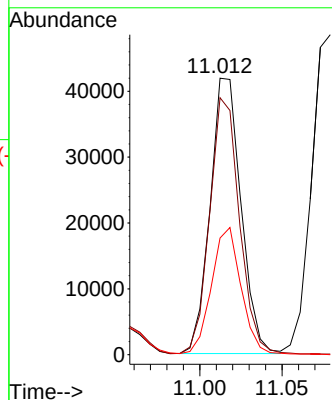
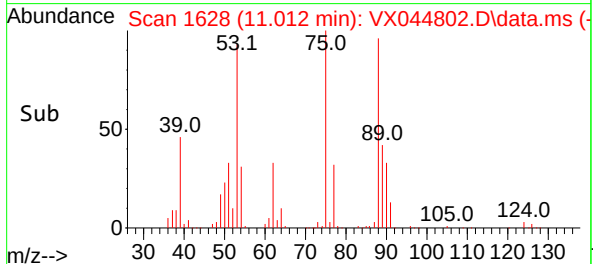
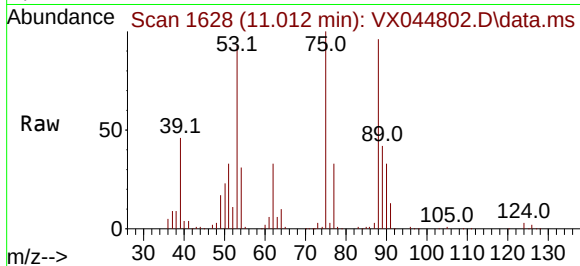
#81
trans-1,4-Dichloro-2-butene
Concen: 50.591 ug/l
RT: 11.012 min Scan# 1629
Delta R.T. -0.006 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 5468
Ion Ratio Lower Upper
75 100
53 89.9 74.3 111.5
89 44.7 37.4 56.0

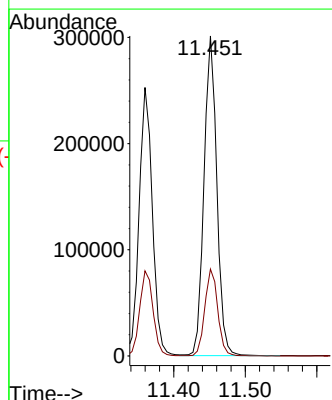
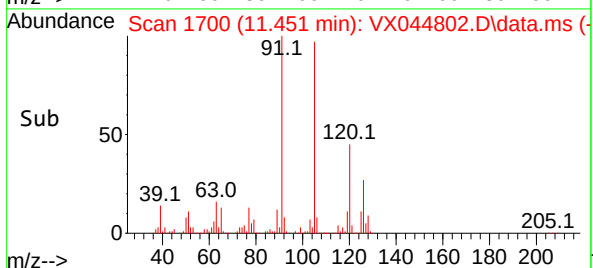
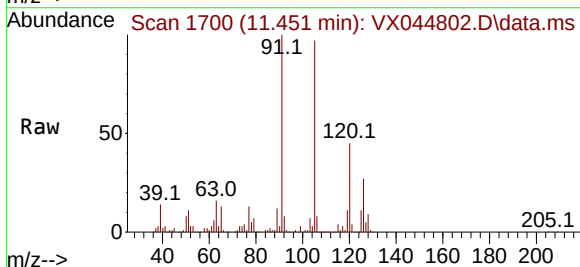
Manual Integrations
APPROVED

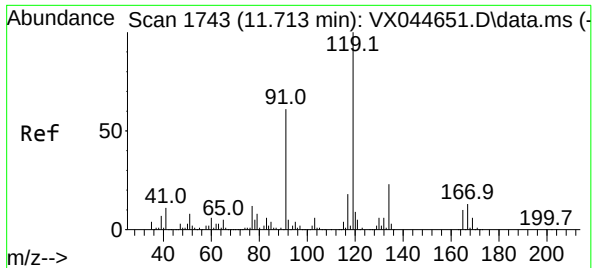
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#82
4-Chlorotoluene
Concen: 57.791 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

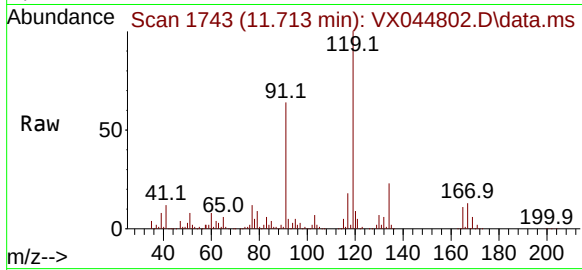
Tgt Ion: 91 Resp: 375241
Ion Ratio Lower Upper
91 100
126 27.5 13.9 41.7





#83
tert-Butylbenzene
Concen: 50.199 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

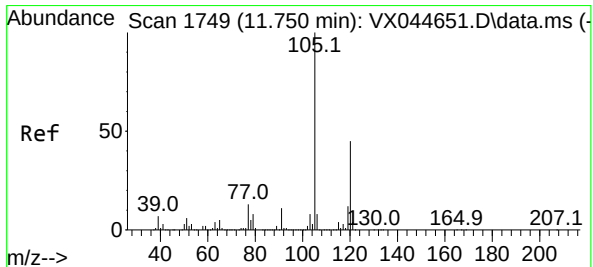
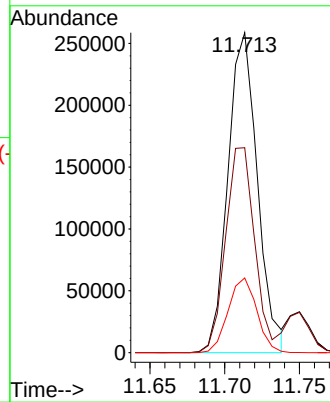
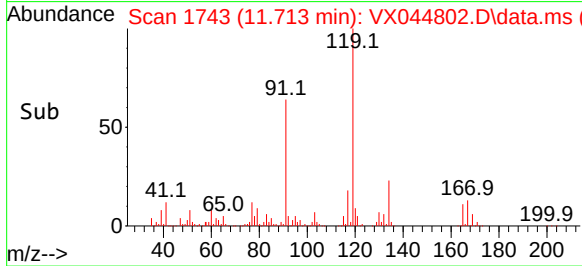
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



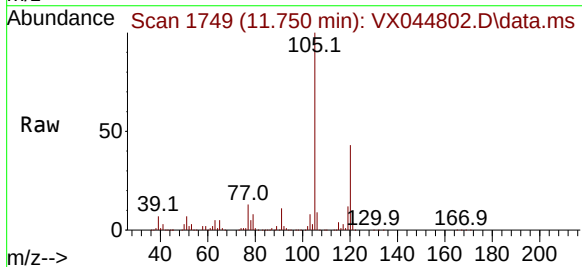
Tgt Ion:119 Resp: 355529
Ion Ratio Lower Upper
119 100
91 62.7 30.0 90.0
134 22.7 11.2 33.5

Manual Integrations
APPROVED

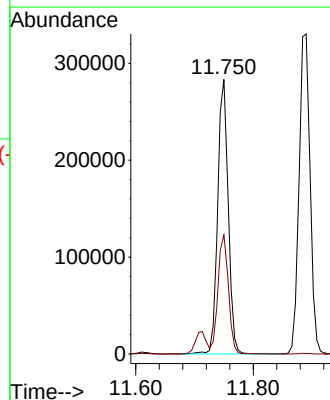
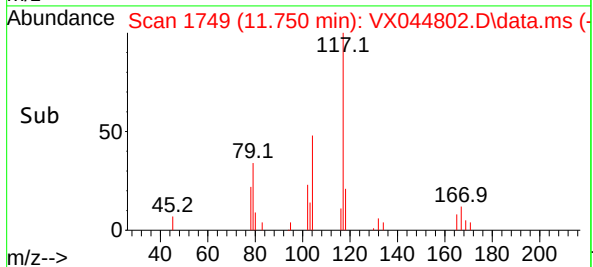
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

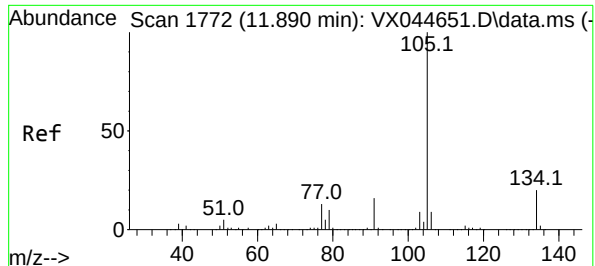


#84
1,2,4-Trimethylbenzene
Concen: 51.077 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52



Tgt Ion:105 Resp: 351562
Ion Ratio Lower Upper
105 100
120 43.2 22.2 66.6





#85

sec-Butylbenzene

Concen: 52.148 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 430021

Ion Ratio Lower Upper

105 100

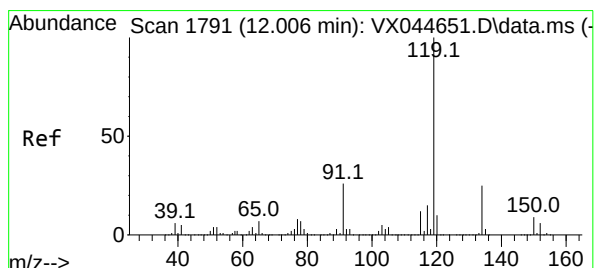
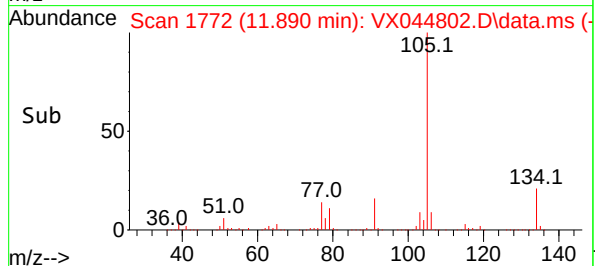
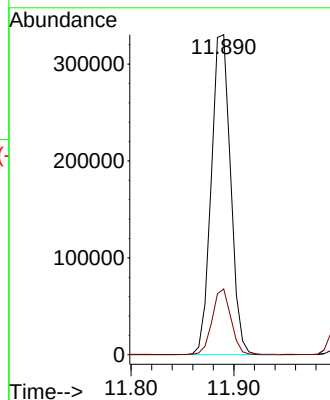
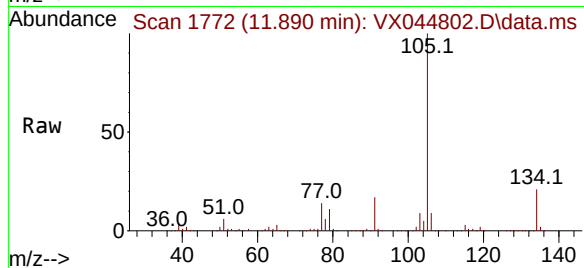
134 19.9 9.8 29.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#86

p-Isopropyltoluene

Concen: 53.781 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

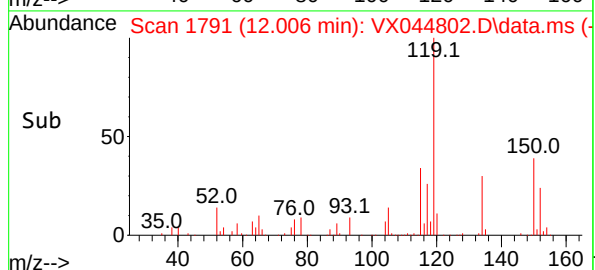
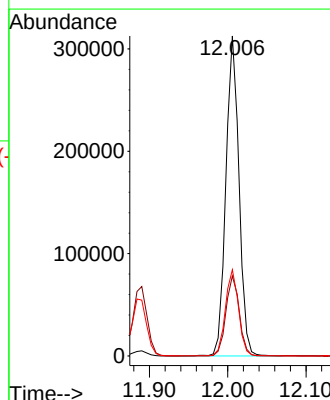
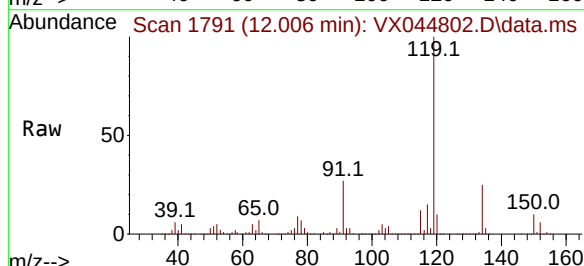
Tgt Ion:119 Resp: 364463

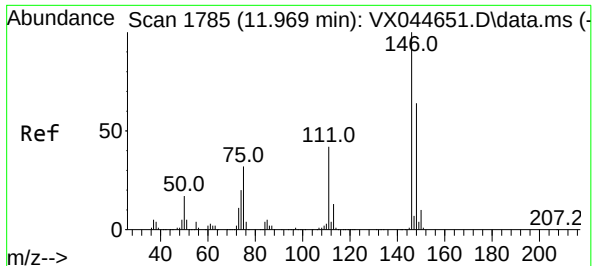
Ion Ratio Lower Upper

119 100

134 25.5 12.8 38.4

91 27.0 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 53.304 ug/l

RT: 11.963 min Scan# 1785

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 17977

Ion Ratio Lower Upper

146 100

111 43.2 21.9 65.7

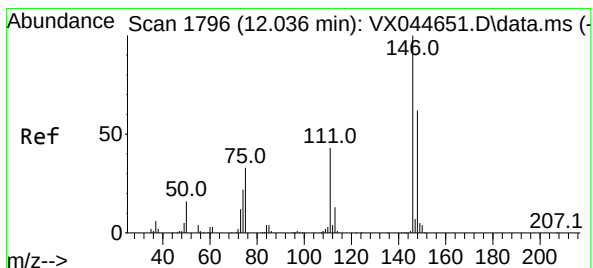
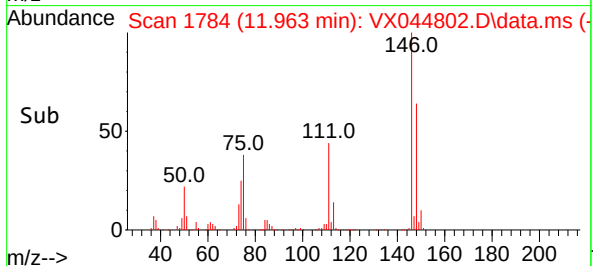
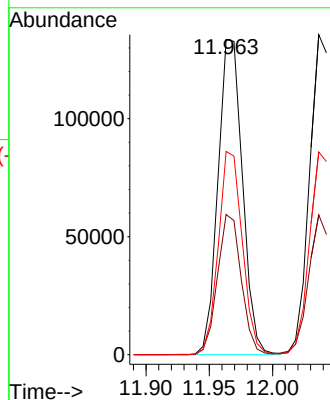
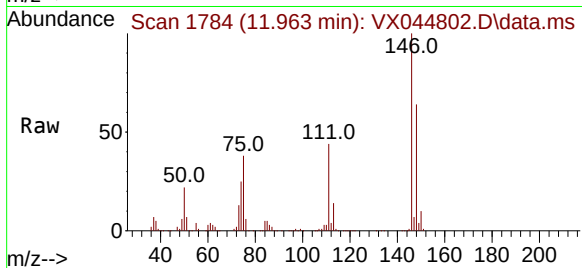
148 63.2 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#88

1,4-Dichlorobenzene

Concen: 51.704 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

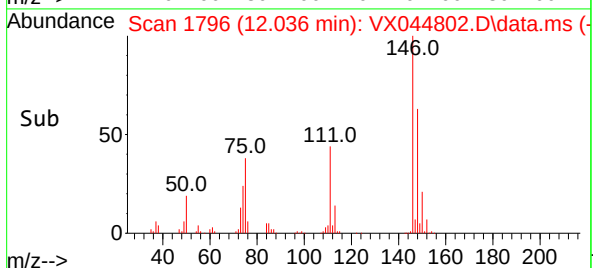
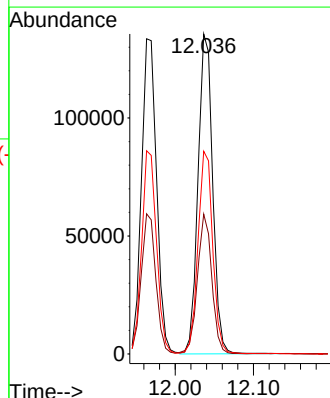
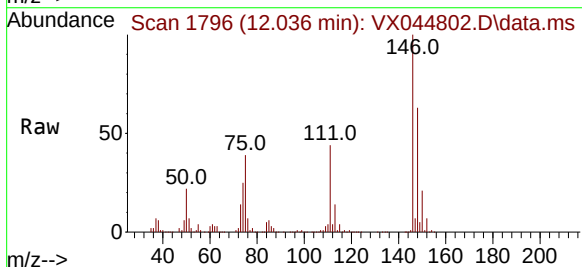
Tgt Ion:146 Resp: 176282

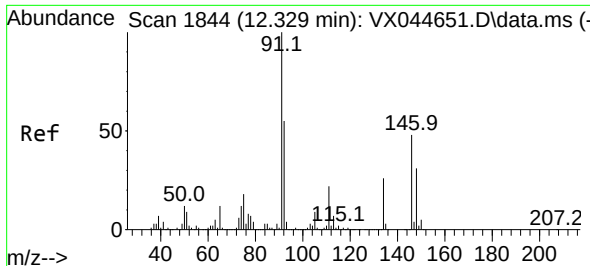
Ion Ratio Lower Upper

146 100

111 43.0 21.5 64.5

148 63.7 32.1 96.5





#89

n-Butylbenzene

Concen: 58.741 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 34190

Ion Ratio Lower Upper

91 100

92 55.0 27.4 82.0

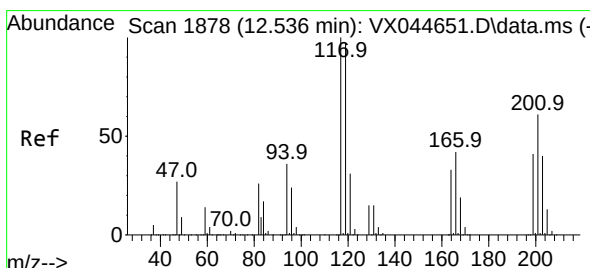
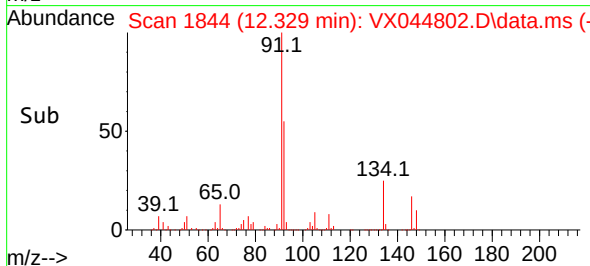
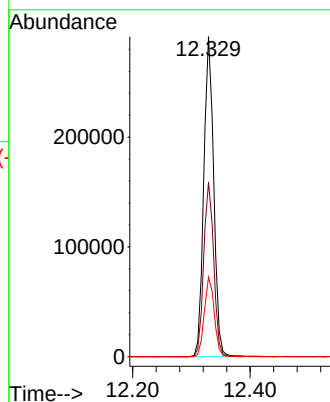
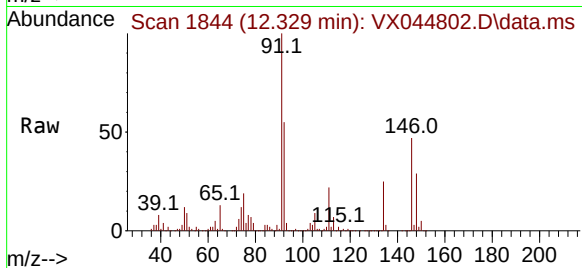
134 24.8 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#90

Hexachloroethane

Concen: 50.955 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044802.D

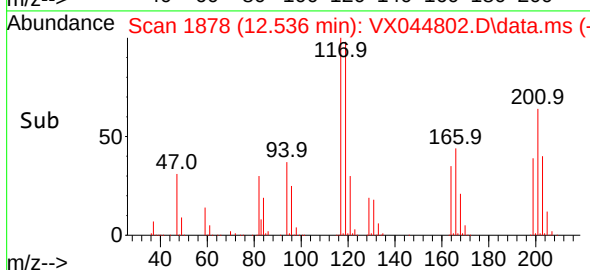
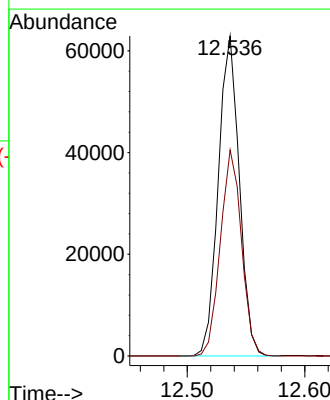
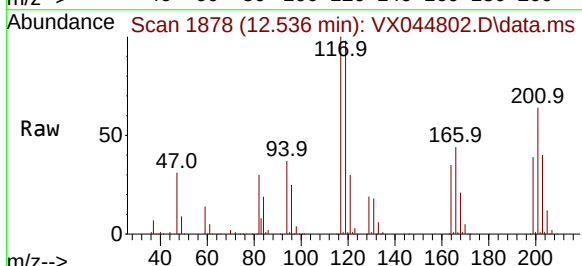
Acq: 03 Feb 2025 09:52

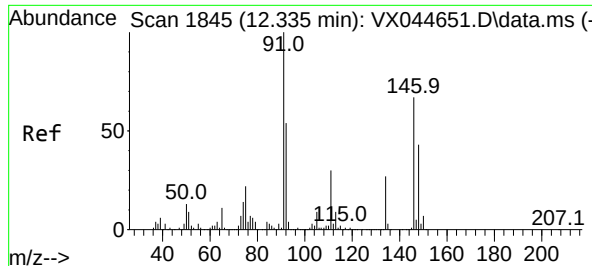
Tgt Ion:117 Resp: 78195

Ion Ratio Lower Upper

117 100

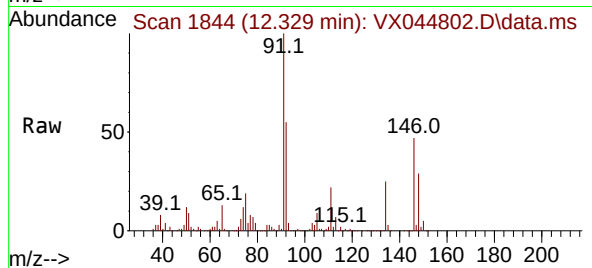
201 64.9 32.3 96.8





#91
1,2-Dichlorobenzene
Concen: 52.880 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.006 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

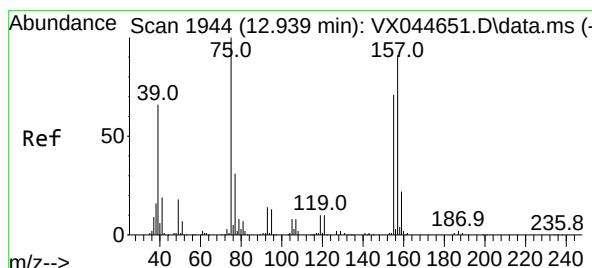
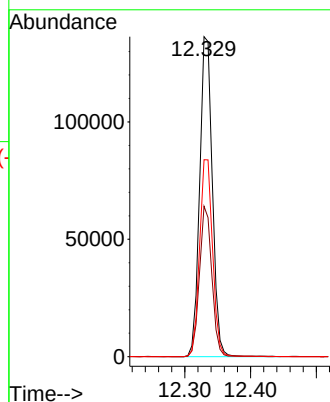
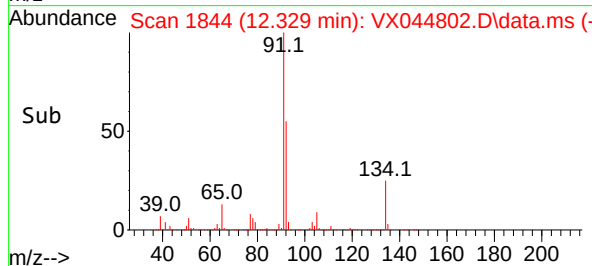
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 18315
Ion Ratio Lower Upper
146 100
111 45.7 22.4 67.2
148 63.1 31.6 94.8

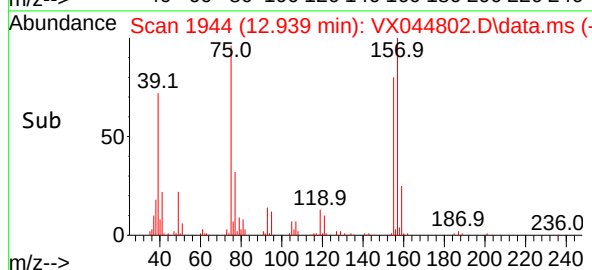
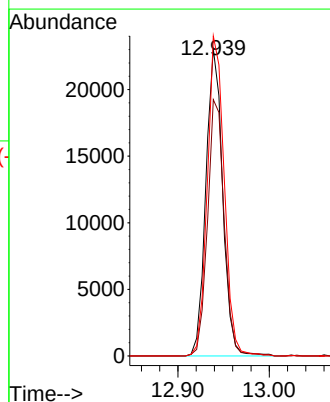
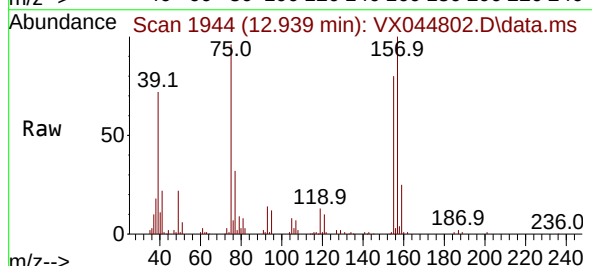
Manual Integrations
APPROVED

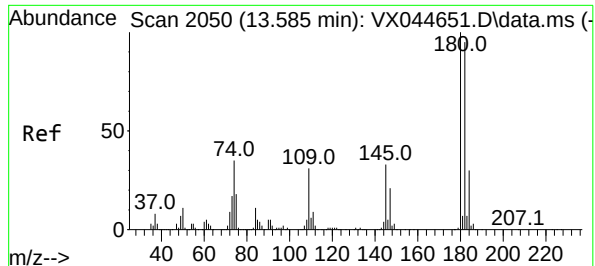
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 41.712 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044802.D
Acq: 03 Feb 2025 09:52

Tgt Ion: 75 Resp: 29314
Ion Ratio Lower Upper
75 100
155 83.1 39.0 116.9
157 105.1 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 58.139 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:180 Resp: 12038

Ion Ratio Lower Upper

180 100

182 94.3 47.4 142.2

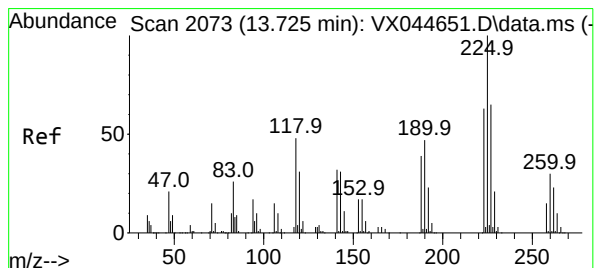
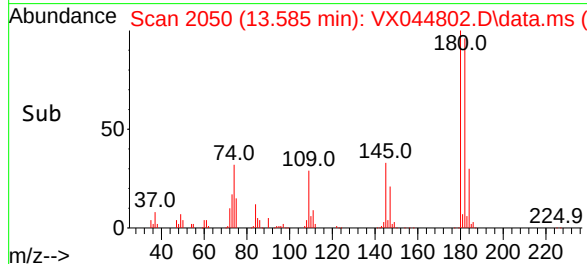
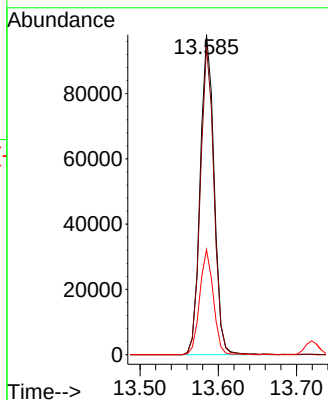
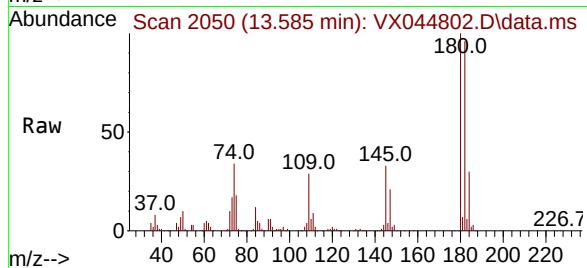
145 32.2 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#94

Hexachlorobutadiene

Concen: 57.977 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

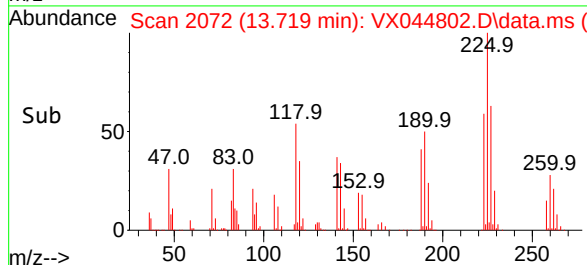
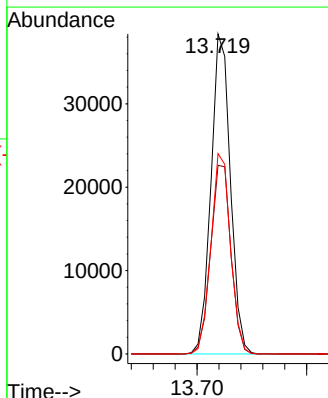
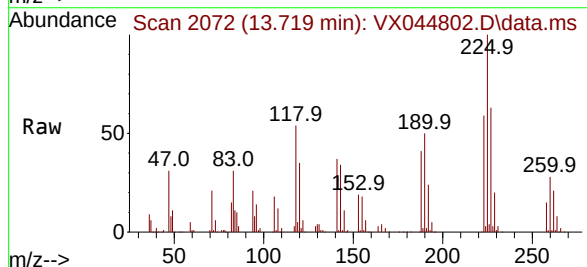
Tgt Ion:225 Resp: 47155

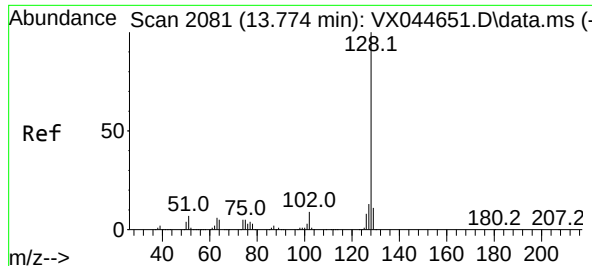
Ion Ratio Lower Upper

225 100

223 61.6 31.9 95.7

227 63.2 31.8 95.4





#95

Naphthalene

Concen: 54.557 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:128 Resp: 435692

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

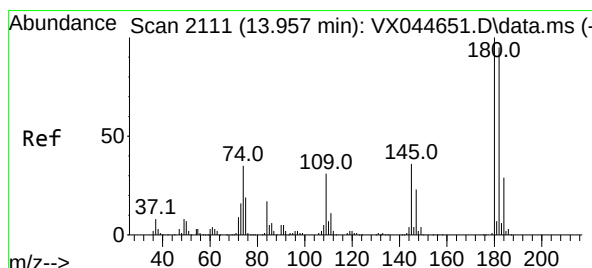
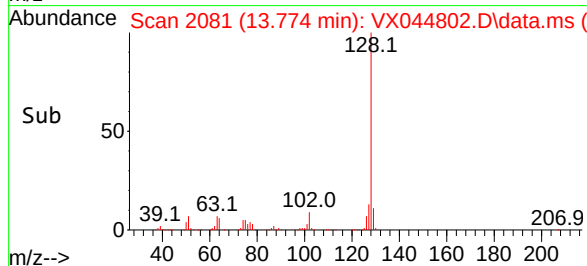
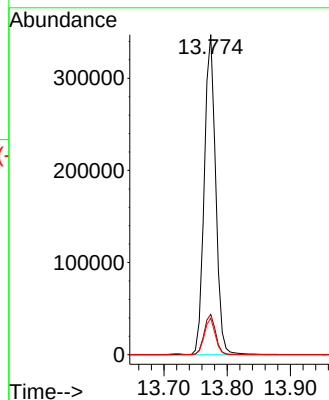
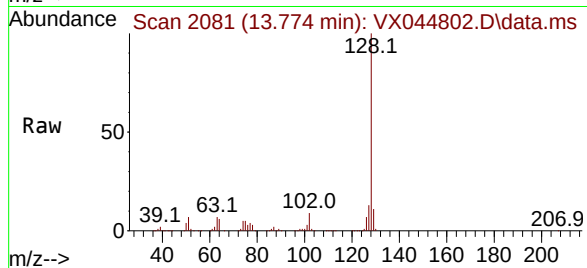
129 11.0 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#96

1,2,3-Trichlorobenzene

Concen: 55.837 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX044802.D

Acq: 03 Feb 2025 09:52

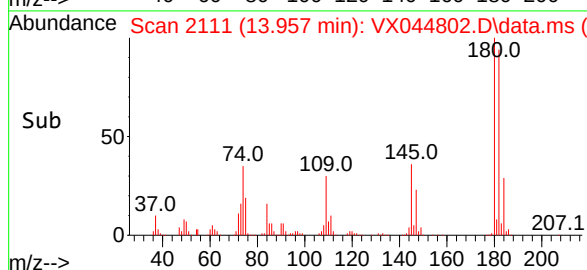
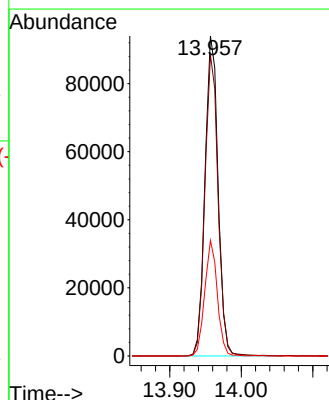
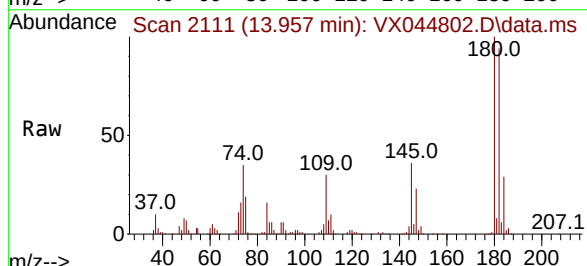
Tgt Ion:180 Resp: 119840

Ion Ratio Lower Upper

180 100

182 94.3 47.2 141.6

145 34.7 17.5 52.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044802.D
 Acq On : 03 Feb 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 04 02:00:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	85	0.00
2 T	Dichlorodifluoromethane	0.673	0.642	4.6	80	0.00
3 P	Chloromethane	0.728	0.755	-3.7	90	0.00
4 C	Vinyl Chloride	0.719	0.766	-6.5#	93	0.00
5 T	Bromomethane	0.172	0.198	-15.1	99	0.00
6 T	Chloroethane	0.132	0.138	-4.5	100	0.00
7 T	Trichlorofluoromethane	0.795	0.955	-20.1	106	0.00
8 T	Diethyl Ether	0.321	0.317	1.2	92	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.597	0.639	-7.0	98	0.00
10 T	Methyl Iodide	0.815	0.817	-0.2	86	0.00
11 T	Tert butyl alcohol	0.168	0.137	18.5	77	0.00
12 CM	1,1-Dichloroethene	0.585	0.636	-8.7#	96	0.00
13 T	Acrolein	0.079	0.068	13.9	86	0.00
14 T	Allyl chloride	1.140	1.126	1.2	91	0.00
15 T	Acrylonitrile	0.330	0.350	-6.1	95	0.00
16 T	Acetone	0.299	0.290	3.0	92	0.00
17 T	Carbon Disulfide	1.597	1.688	-5.7	93	0.00
18 T	Methyl Acetate	0.921	0.987	-7.2	95	0.00
19 T	Methyl tert-butyl Ether	2.121	2.080	1.9	87	0.00
20 T	Methylene Chloride	0.695	0.700	-0.7	91	0.00
21 T	trans-1,2-Dichloroethene	0.611	0.621	-1.6	93	0.00
22 T	Diisopropyl ether	1.981	2.179	-10.0	97	0.00
23 T	Vinyl Acetate	1.734	1.796	-3.6	93	0.00
24 P	1,1-Dichloroethane	1.175	1.223	-4.1	92	0.00
25 T	2-Butanone	0.444	0.459	-3.4	92	0.00
26 T	2,2-Dichloropropane	1.139	1.035	9.1	84	0.00
27 T	cis-1,2-Dichloroethene	0.769	0.776	-0.9	92	0.00
28 T	Bromochloromethane	0.549	0.559	-1.8	90	0.00
29 T	Tetrahydrofuran	0.286	0.296	-3.5	94	0.00
30 C	Chloroform	1.186	1.162	2.0#	87	0.00
31 T	Cyclohexane	0.950	1.091	-14.8	100	0.00
32 T	1,1,1-Trichloroethane	1.090	0.991	9.1	85	0.00
33 S	1,2-Dichloroethane-d4	0.755	0.726	3.8	83	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	85	0.00
35 S	Dibromofluoromethane	0.318	0.333	-4.7	89	0.00
36 T	1,1-Dichloropropene	0.442	0.448	-1.4	93	0.00
37 T	Ethyl Acetate	0.471	0.492	-4.5	90	0.00
38 T	Carbon Tetrachloride	0.497	0.454	8.7	84	0.00
39 T	Methylcyclohexane	0.587	0.631	-7.5	97	0.00
40 TM	Benzene	1.370	1.440	-5.1	93	0.00
41 T	Methacrylonitrile	0.274	0.277	-1.1	92	0.00
42 TM	1,2-Dichloroethane	0.500	0.454	9.2	80	0.00
43 T	Isopropyl Acetate	0.866	0.852	1.6	88	0.00
44 TM	Trichloroethene	0.329	0.337	-2.4	90	0.00
45 C	1,2-Dichloropropane	0.345	0.367	-6.4#	95	0.00
46 T	Dibromomethane	0.263	0.248	5.7	86	0.00
47 T	Bromodichloromethane	0.538	0.502	6.7	84	0.00
48 T	Methyl methacrylate	0.402	0.400	0.5	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044802.D
 Acq On : 03 Feb 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 04 02:00:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.008	0.008	0.0	81	0.00
50 S	Toluene-d8	1.108	1.249	-12.7	95	0.00
51 T	4-Methyl-2-Pentanone	0.479	0.493	-2.9	93	0.00
52 CM	Toluene	0.839	0.879	-4.8#	92	0.00
53 T	t-1,3-Dichloropropene	0.556	0.536	3.6	83	0.00
54 T	cis-1,3-Dichloropropene	0.603	0.590	2.2	87	0.00
55 T	1,1,2-Trichloroethane	0.339	0.338	0.3	90	0.00
56 T	Ethyl methacrylate	0.583	0.574	1.5	86	0.00
57 T	1,3-Dichloropropane	0.578	0.580	-0.3	88	0.00
58 T	2-Chloroethyl Vinyl ether	0.286	0.287	-0.3	89	0.00
59 T	2-Hexanone	0.352	0.357	-1.4	92	0.00
60 T	Dibromochloromethane	0.398	0.376	5.5	84	0.00
61 T	1,2-Dibromoethane	0.356	0.344	3.4	87	0.00
62 S	4-Bromofluorobenzene	0.413	0.437	-5.8	88	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
64 T	Tetrachloroethene	0.314	0.312	0.6	88	0.00
65 PM	Chlorobenzene	1.062	1.101	-3.7	92	0.00
66 T	1,1,1,2-Tetrachloroethane	0.386	0.370	4.1	85	0.00
67 C	Ethyl Benzene	1.853	1.969	-6.3#	93	0.00
68 T	m/p-Xylenes	0.688	0.736	-7.0	94	0.00
69 T	o-Xylene	0.695	0.718	-3.3	90	0.00
70 T	Styrene	1.123	1.200	-6.9	92	0.00
71 P	Bromoform	0.314	0.290	7.6	81	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	0.00
73 T	Isopropylbenzene	4.085	4.545	-11.3	92	0.00
74 T	N-amyl acetate	2.013	2.104	-4.5	88	0.00
75 P	1,1,2,2-Tetrachloroethane	1.411	1.487	-5.4	91	0.00
76 T	1,2,3-Trichloropropane	1.213	1.245	-2.6	90	0.00
77 T	Bromobenzene	0.955	1.015	-6.3	90	0.00
78 T	n-propylbenzene	4.505	5.337	-18.5	97	0.00
79 T	2-Chlorotoluene	2.910	3.127	-7.5	90	0.00
80 T	1,3,5-Trimethylbenzene	3.325	3.810	-14.6	95	0.00
81 T	trans-1,4-Dichloro-2-butene	0.531	0.537	-1.1	84	0.00
82 T	4-Chlorotoluene	3.188	3.684	-15.6	95	0.00
83 T	tert-Butylbenzene	3.477	3.491	-0.4	84	0.00
84 T	1,2,4-Trimethylbenzene	3.379	3.452	-2.2	86	0.00
85 T	sec-Butylbenzene	4.048	4.222	-4.3	86	0.00
86 T	p-Isopropyltoluene	3.327	3.578	-7.5	88	0.00
87 T	1,3-Dichlorobenzene	1.656	1.765	-6.6	87	0.00
88 T	1,4-Dichlorobenzene	1.674	1.731	-3.4	87	0.00
89 T	n-Butylbenzene	2.857	3.357	-17.5	95	0.00
90 T	Hexachloroethane	0.753	0.768	-2.0	89	0.00
91 T	1,2-Dichlorobenzene	1.700	1.798	-5.8	88	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.345	0.288	16.5	74	0.00
93 T	1,2,4-Trichlorobenzene	1.016	1.182	-16.3	91	0.00
94 T	Hexachlorobutadiene	0.399	0.463	-16.0	94	0.00
95 T	Naphthalene	3.920	4.278	-9.1	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
Data File : VX044802.D
Acq On : 03 Feb 2025 09:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 04 02:00:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	1.054	1.177	-11.7	89	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044802.D
 Acq On : 03 Feb 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 04 02:00:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	85	0.00
2 T	Dichlorodifluoromethane	50.000	47.741	4.5	80	0.00
3 P	Chloromethane	50.000	51.877	-3.8	90	0.00
4 C	Vinyl Chloride	50.000	53.283	-6.6#	93	0.00
5 T	Bromomethane	50.000	57.578	-15.2	99	0.00
6 T	Chloroethane	50.000	52.365	-4.7	100	0.00
7 T	Trichlorofluoromethane	50.000	60.090	-20.2	106	0.00
8 T	Diethyl Ether	50.000	49.453	1.1	92	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	53.500	-7.0	98	0.00
10 T	Methyl Iodide	50.000	50.112	-0.2	86	0.00
11 T	Tert butyl alcohol	250.000	204.000	18.4	77	0.00
12 CM	1,1-Dichloroethene	50.000	54.321	-8.6#	96	0.00
13 T	Acrolein	250.000	216.204	13.5	86	0.00
14 T	Allyl chloride	50.000	49.381	1.2	91	0.00
15 T	Acrylonitrile	250.000	265.265	-6.1	95	0.00
16 T	Acetone	250.000	242.503	3.0	92	0.00
17 T	Carbon Disulfide	50.000	52.823	-5.6	93	0.00
18 T	Methyl Acetate	50.000	53.585	-7.2	95	0.00
19 T	Methyl tert-butyl Ether	50.000	49.052	1.9	87	0.00
20 T	Methylene Chloride	50.000	50.330	-0.7	91	0.00
21 T	trans-1,2-Dichloroethene	50.000	50.775	-1.5	93	0.00
22 T	Diisopropyl ether	50.000	54.981	-10.0	97	0.00
23 T	Vinyl Acetate	250.000	258.911	-3.6	93	0.00
24 P	1,1-Dichloroethane	50.000	52.029	-4.1	92	0.00
25 T	2-Butanone	250.000	258.709	-3.5	92	0.00
26 T	2,2-Dichloropropane	50.000	45.456	9.1	84	0.00
27 T	cis-1,2-Dichloroethene	50.000	50.436	-0.9	92	0.00
28 T	Bromochloromethane	50.000	50.943	-1.9	90	0.00
29 T	Tetrahydrofuran	250.000	258.796	-3.5	94	0.00
30 C	Chloroform	50.000	49.012	2.0#	87	0.00
31 T	Cyclohexane	50.000	57.418	-14.8	100	0.00
32 T	1,1,1-Trichloroethane	50.000	45.461	9.1	85	0.00
33 S	1,2-Dichloroethane-d4	50.000	48.114	3.8	83	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	85	0.00
35 S	Dibromofluoromethane	50.000	52.467	-4.9	89	0.00
36 T	1,1-Dichloropropene	50.000	50.662	-1.3	93	0.00
37 T	Ethyl Acetate	50.000	52.295	-4.6	90	0.00
38 T	Carbon Tetrachloride	50.000	45.680	8.6	84	0.00
39 T	Methylcyclohexane	50.000	53.731	-7.5	97	0.00
40 TM	Benzene	50.000	52.535	-5.1	93	0.00
41 T	Methacrylonitrile	50.000	50.508	-1.0	92	0.00
42 TM	1,2-Dichloroethane	50.000	45.355	9.3	80	0.00
43 T	Isopropyl Acetate	50.000	49.187	1.6	88	0.00
44 TM	Trichloroethene	50.000	51.104	-2.2	90	0.00
45 C	1,2-Dichloropropane	50.000	53.206	-6.4#	95	0.00
46 T	Dibromomethane	50.000	47.313	5.4	86	0.00
47 T	Bromodichloromethane	50.000	46.626	6.7	84	0.00
48 T	Methyl methacrylate	50.000	49.744	0.5	85	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044802.D
 Acq On : 03 Feb 2025 09:52
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Feb 04 02:00:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	903.978	9.6	81	0.00
50 S	Toluene-d8	50.000	56.382	-12.8	95	0.00
51 T	4-Methyl-2-Pentanone	250.000	257.519	-3.0	93	0.00
52 CM	Toluene	50.000	52.403	-4.8#	92	0.00
53 T	t-1,3-Dichloropropene	50.000	48.158	3.7	83	0.00
54 T	cis-1,3-Dichloropropene	50.000	48.923	2.2	87	0.00
55 T	1,1,2-Trichloroethane	50.000	49.814	0.4	90	0.00
56 T	Ethyl methacrylate	50.000	49.203	1.6	86	0.00
57 T	1,3-Dichloropropane	50.000	50.198	-0.4	88	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	250.814	-0.3	89	0.00
59 T	2-Hexanone	250.000	253.231	-1.3	92	0.00
60 T	Dibromochloromethane	50.000	47.219	5.6	84	0.00
61 T	1,2-Dibromoethane	50.000	48.405	3.2	87	0.00
62 S	4-Bromofluorobenzene	50.000	52.925	-5.8	88	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	84	0.00
64 T	Tetrachloroethene	50.000	49.701	0.6	88	0.00
65 PM	Chlorobenzene	50.000	51.839	-3.7	92	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	47.975	4.0	85	0.00
67 C	Ethyl Benzene	50.000	53.125	-6.3#	93	0.00
68 T	m/p-Xylenes	100.000	107.068	-7.1	94	0.00
69 T	o-Xylene	50.000	51.643	-3.3	90	0.00
70 T	Styrene	50.000	53.453	-6.9	92	0.00
71 P	Bromoform	50.000	46.133	7.7	81	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	80	0.00
73 T	Isopropylbenzene	50.000	55.630	-11.3	92	0.00
74 T	N-amyl acetate	50.000	52.255	-4.5	88	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.692	-5.4	91	0.00
76 T	1,2,3-Trichloropropane	50.000	51.297	-2.6	90	0.00
77 T	Bromobenzene	50.000	53.164	-6.3	90	0.00
78 T	n-propylbenzene	50.000	59.244	-18.5	97	0.00
79 T	2-Chlorotoluene	50.000	53.730	-7.5	90	0.00
80 T	1,3,5-Trimethylbenzene	50.000	57.296	-14.6	95	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	50.591	-1.2	84	0.00
82 T	4-Chlorotoluene	50.000	57.791	-15.6	95	0.00
83 T	tert-Butylbenzene	50.000	50.199	-0.4	84	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.077	-2.2	86	0.00
85 T	sec-Butylbenzene	50.000	52.148	-4.3	86	0.00
86 T	p-Isopropyltoluene	50.000	53.781	-7.6	88	0.00
87 T	1,3-Dichlorobenzene	50.000	53.304	-6.6	87	0.00
88 T	1,4-Dichlorobenzene	50.000	51.704	-3.4	87	0.00
89 T	n-Butylbenzene	50.000	58.741	-17.5	95	0.00
90 T	Hexachloroethane	50.000	50.955	-1.9	89	0.00
91 T	1,2-Dichlorobenzene	50.000	52.880	-5.8	88	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	41.712	16.6	74	0.00
93 T	1,2,4-Trichlorobenzene	50.000	58.139	-16.3	91	0.00
94 T	Hexachlorobutadiene	50.000	57.977	-16.0	94	0.00
95 T	Naphthalene	50.000	54.557	-9.1	89	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
Data File : VX044802.D
Acq On : 03 Feb 2025 09:52
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Feb 04 02:00:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	55.837	-11.7	89	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



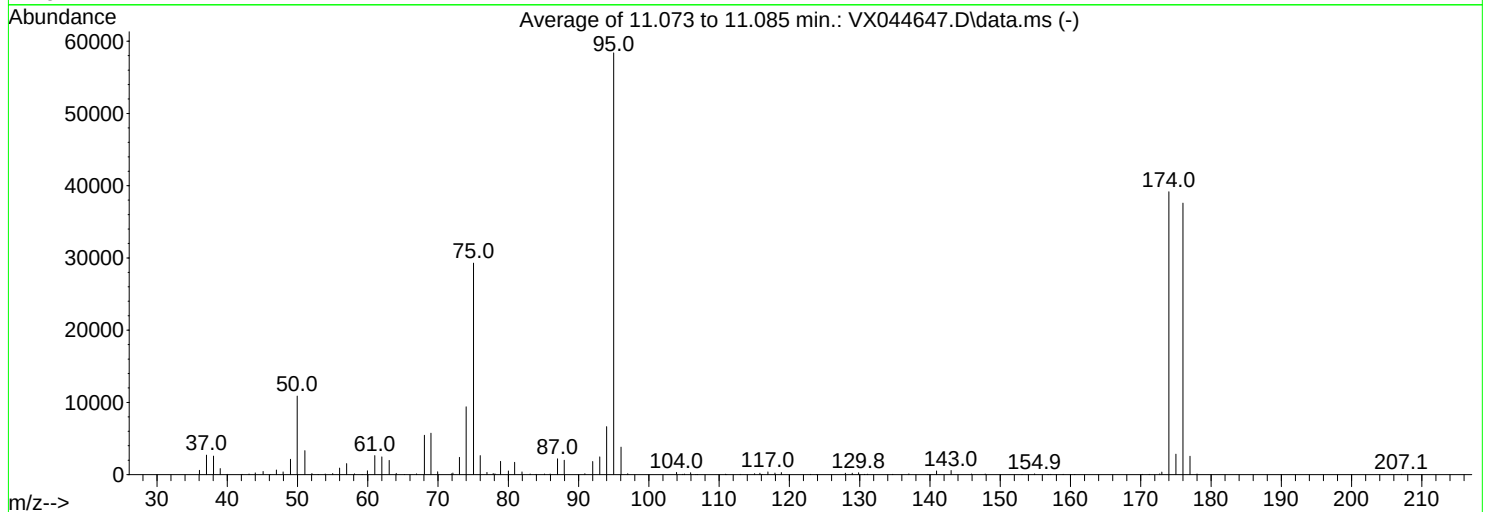
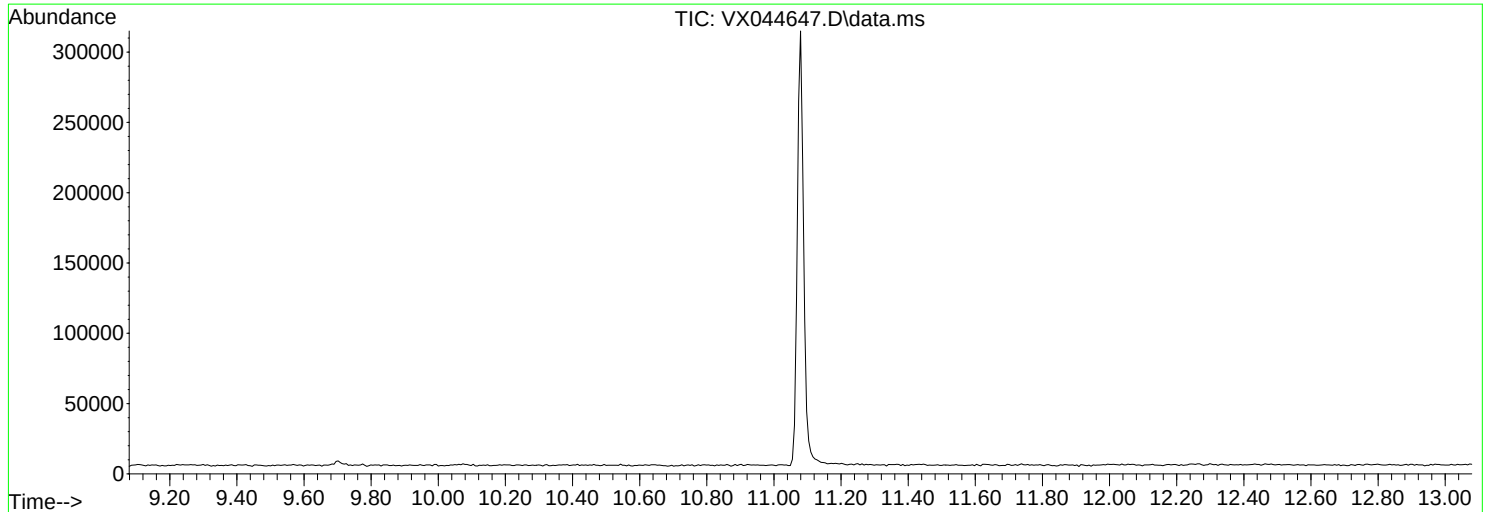
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044647.D
Acq On : 15 Jan 2025 09:30
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Title : SW846 8260
Last Update : Thu Jan 16 01:16:09 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

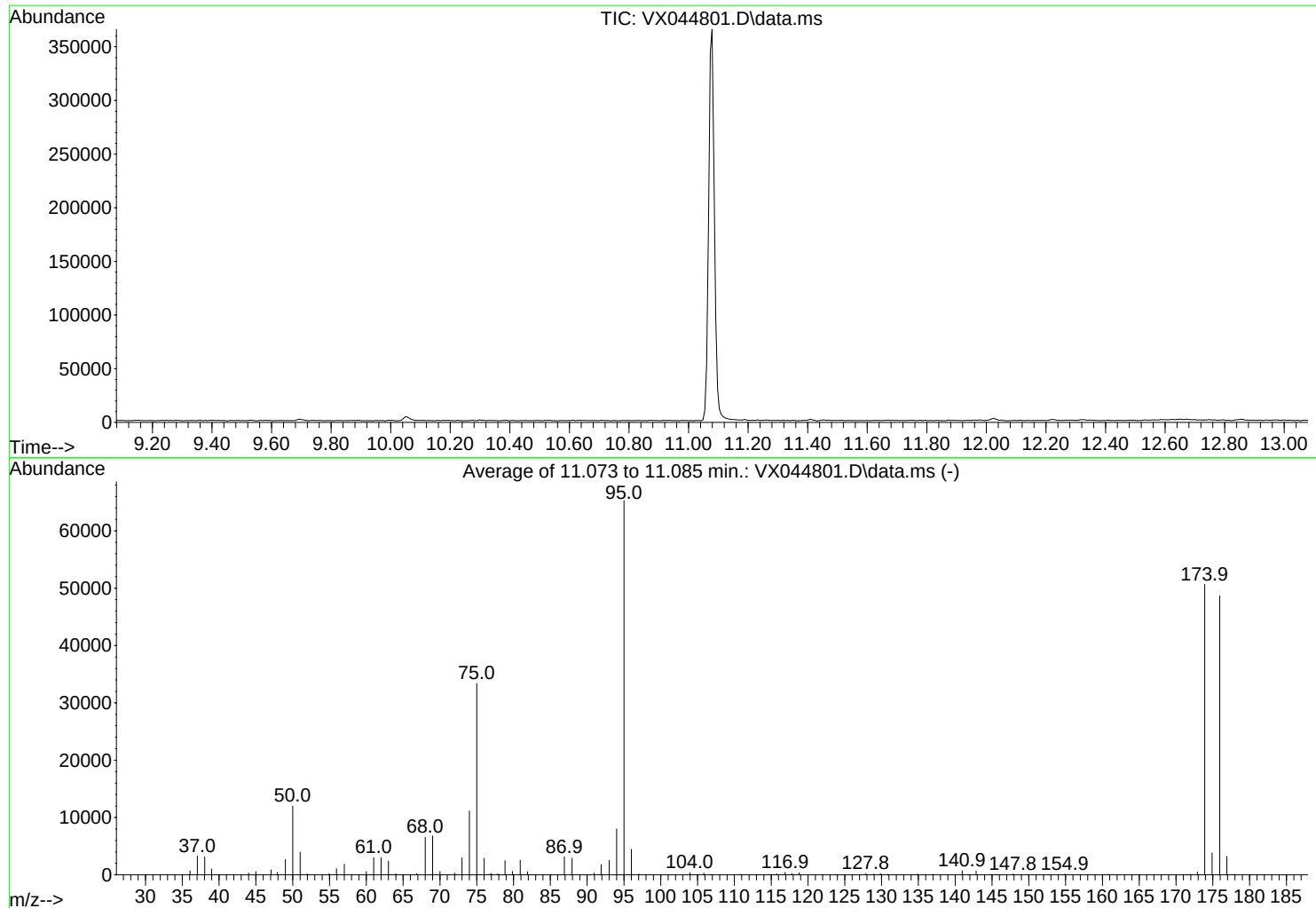
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	10879	PASS
75	95	30	60	50.2	29285	PASS
95	95	100	100	100.0	58391	PASS
96	95	5	9	6.5	3805	PASS
173	174	0.00	2	0.9	350	PASS
174	95	50	100	67.1	39163	PASS
175	174	5	9	7.3	2842	PASS
176	174	95	101	96.0	37587	PASS
177	176	5	9	6.8	2538	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
Data File : VX044801.D
Acq On : 03 Feb 2025 08:12
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Title : SW846 8260
Last Update : Thu Jan 16 01:16:09 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	11987	PASS
75	95	30	60	51.1	33397	PASS
95	95	100	100	100.0	65304	PASS
96	95	5	9	6.8	4458	PASS
173	174	0.00	2	1.0	492	PASS
174	95	50	100	77.6	50659	PASS
175	174	5	9	7.6	3833	PASS
176	174	95	101	96.1	48672	PASS
177	176	5	9	6.6	3220	PASS

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VX0203WBL01	SDG No.:	Q1235
Lab Sample ID:	VX0203WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044804.D	1		02/03/25 10:44	VX020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	5.00	U	0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	5.00	U	0.26	5.00	ug/L
78-93-3	2-Butanone	25.0	U	1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	5.00	U	0.25	5.00	ug/L
67-66-3	Chloroform	5.00	U	0.26	5.00	ug/L
71-43-2	Benzene	5.00	U	0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	5.00	U	0.24	5.00	ug/L
79-01-6	Trichloroethene	5.00	U	0.32	5.00	ug/L
127-18-4	Tetrachloroethene	5.00	U	0.25	5.00	ug/L
108-90-7	Chlorobenzene	5.00	U	0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.6		74 - 125	97%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		75 - 124	100%	SPK: 50
2037-26-5	Toluene-d8	55.2		86 - 113	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		77 - 121	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	125000	5.544			
540-36-3	1,4-Difluorobenzene	258000	6.757			
3114-55-4	Chlorobenzene-d5	233000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	101000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044804.D
 Acq On : 03 Feb 2025 10:44
 Operator : JC/MD
 Sample : VX0203WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0203WBL01

Quant Time: Feb 04 02:05:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	124993	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	257688	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	232979	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	100905	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	91752	48.632	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.260%
35) Dibromofluoromethane	5.379	113	82089	50.144	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.280%
50) Toluene-d8	8.647	98	315174	55.215	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	110.440%
62) 4-Bromofluorobenzene	11.079	95	112520	52.878	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.760%

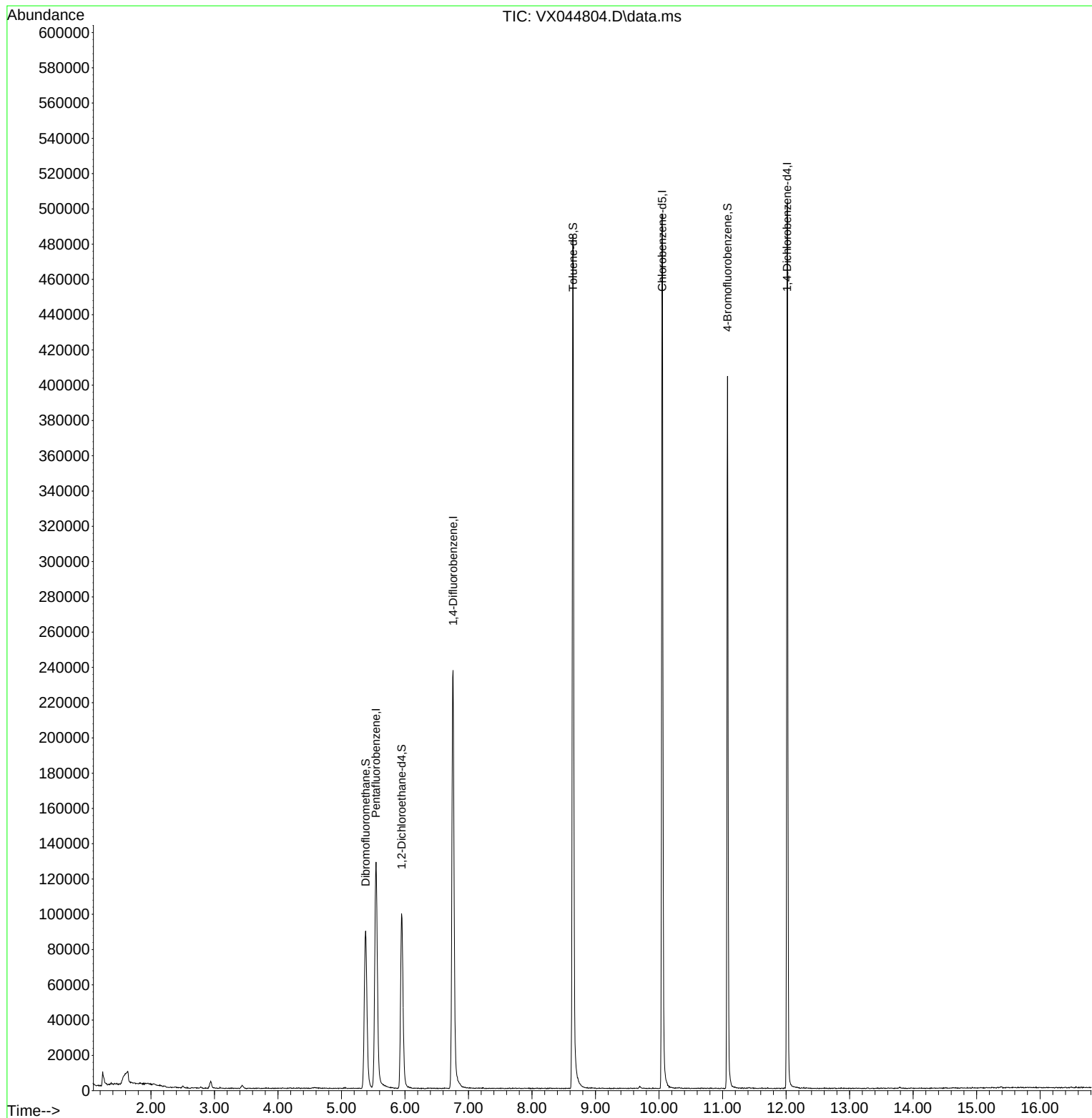
Target Compounds	Qvalue

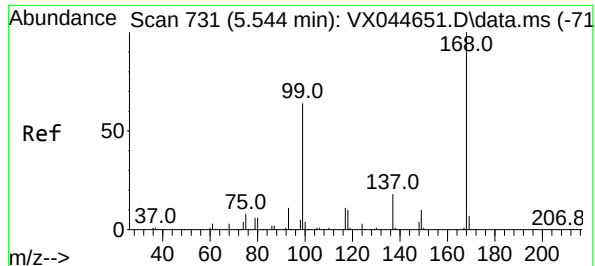
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
Data File : VX044804.D
Acq On : 03 Feb 2025 10:44
Operator : JC/MD
Sample : VX0203WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0203WBL01

Quant Time: Feb 04 02:05:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

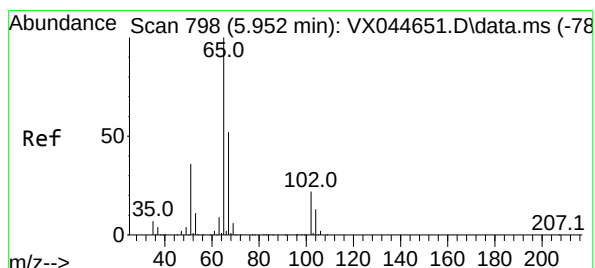
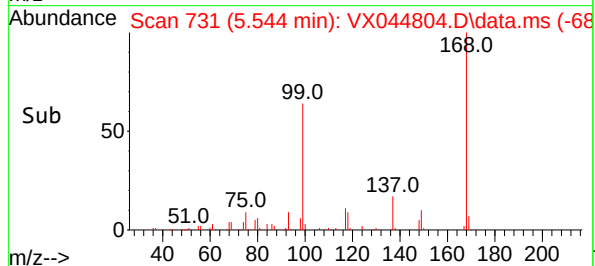
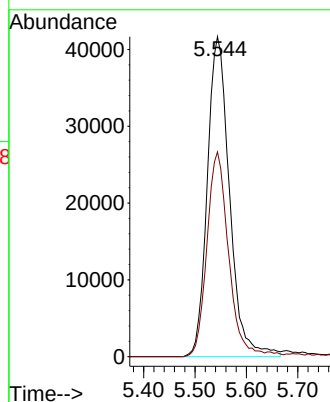
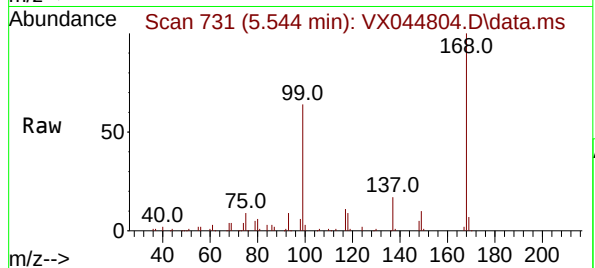




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044804.D
Acq: 03 Feb 2025 10:44

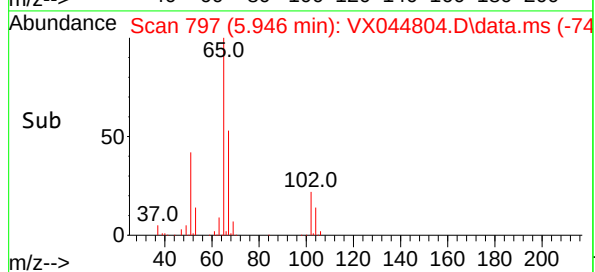
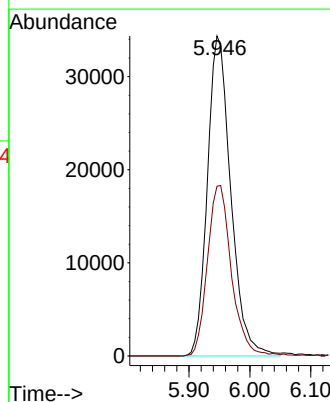
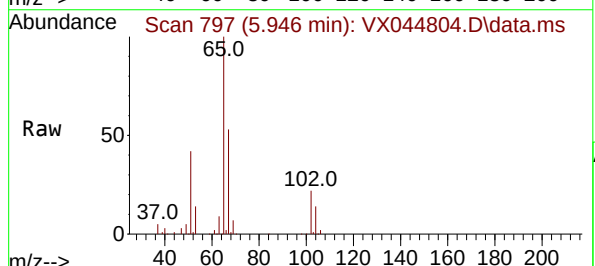
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBL01

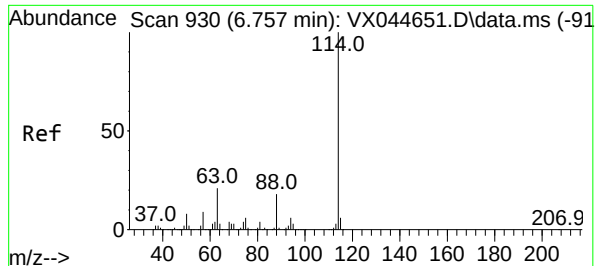
Tgt Ion:168 Resp: 124993
Ion Ratio Lower Upper
168 100
99 64.0 51.1 76.7



#33
1,2-Dichloroethane-d4
Concen: 48.632 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044804.D
Acq: 03 Feb 2025 10:44

Tgt Ion: 65 Resp: 91752
Ion Ratio Lower Upper
65 100
67 54.6 0.0 103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX044804.D

Acq: 03 Feb 2025 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBL01

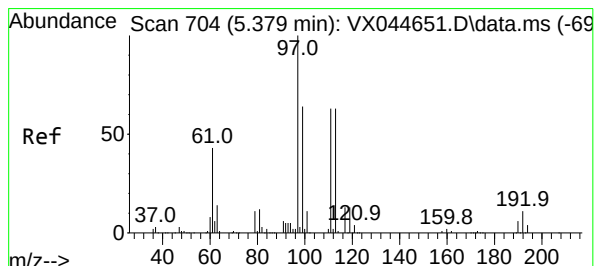
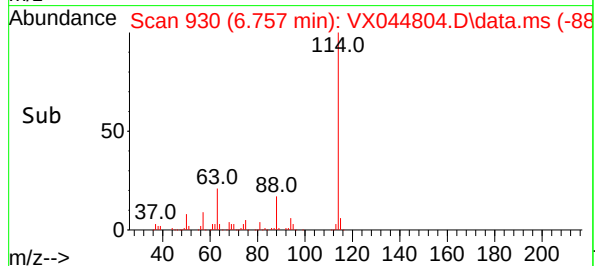
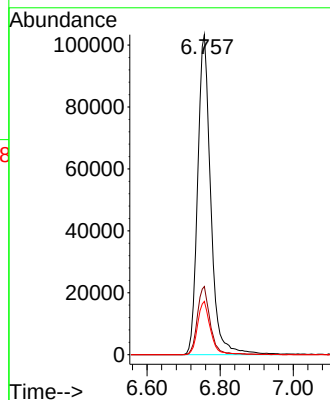
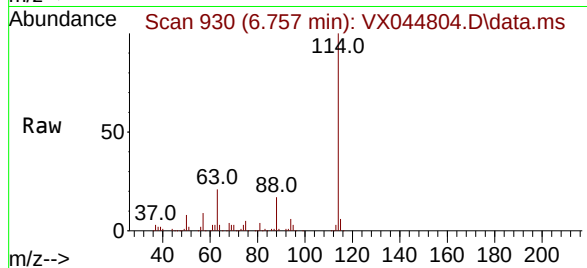
Tgt Ion:114 Resp: 257688

Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.0

88 16.7 0.0 35.4



#35

Dibromofluoromethane

Concen: 50.144 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044804.D

Acq: 03 Feb 2025 10:44

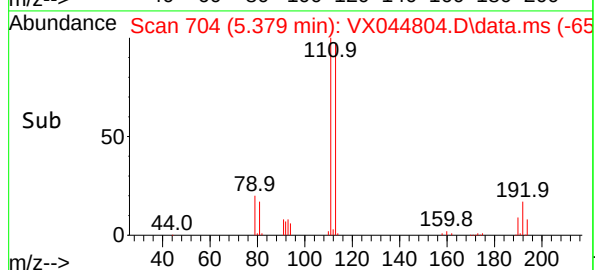
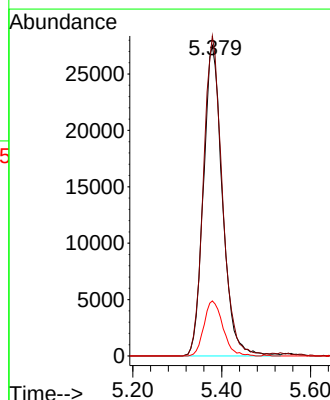
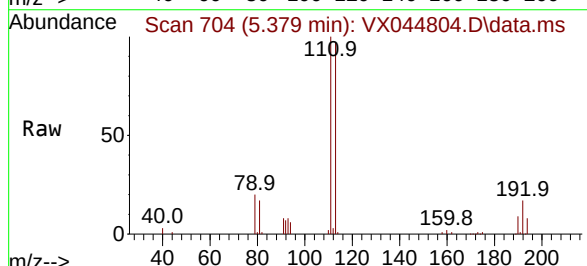
Tgt Ion:113 Resp: 82089

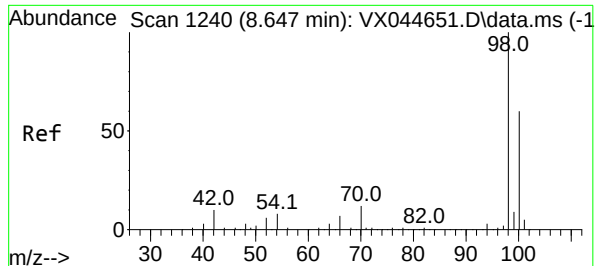
Ion Ratio Lower Upper

113 100

111 102.2 81.6 122.4

192 17.7 14.4 21.6





#50

Toluene-d8

Concen: 55.215 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044804.D

Acq: 03 Feb 2025 10:44

Instrument :

MSVOA_X

ClientSampleId :

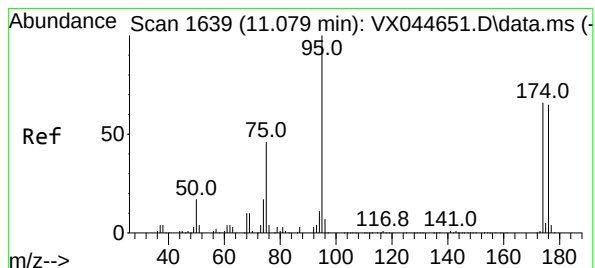
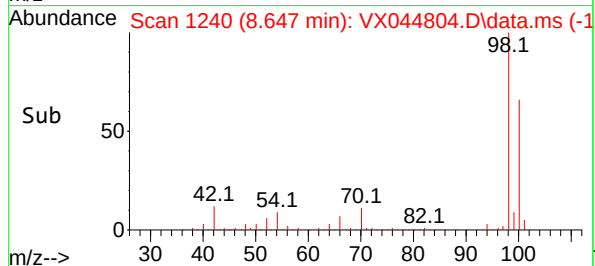
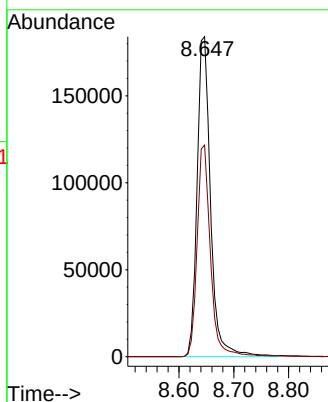
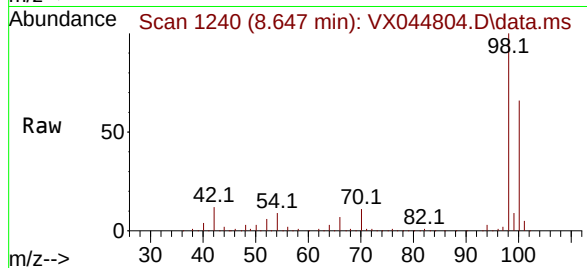
VX0203WBL01

Tgt Ion: 98 Resp: 315174

Ion Ratio Lower Upper

98 100

100 65.7 53.2 79.8



#62

4-Bromofluorobenzene

Concen: 52.878 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX044804.D

Acq: 03 Feb 2025 10:44

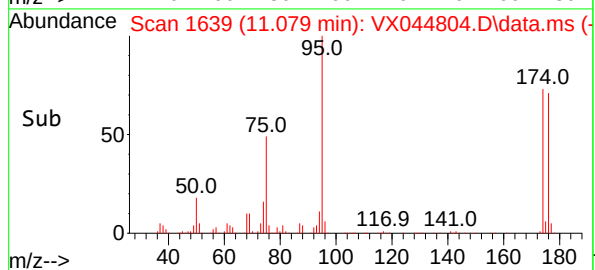
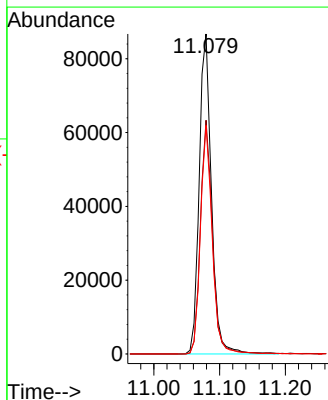
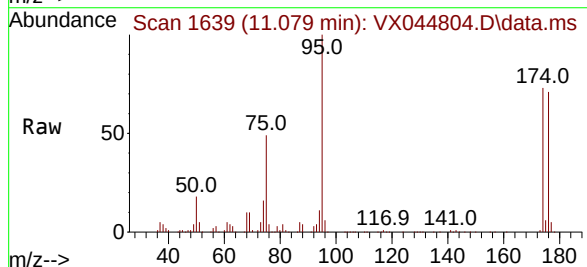
Tgt Ion: 95 Resp: 112520

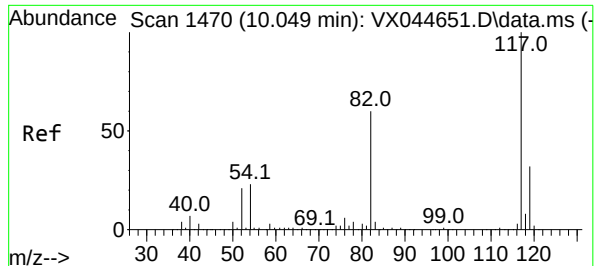
Ion Ratio Lower Upper

95 100

174 71.4 0.0 133.0

176 68.5 0.0 129.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX044804.D

Acq: 03 Feb 2025 10:44

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBL01

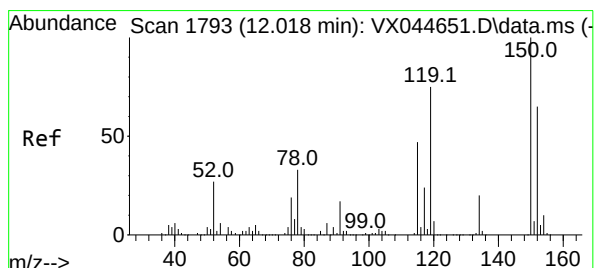
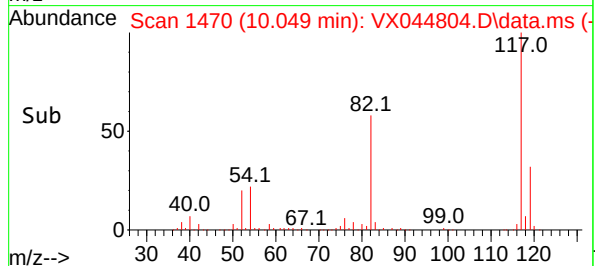
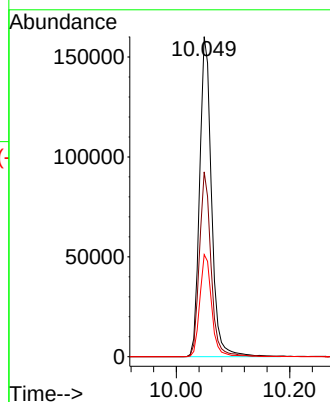
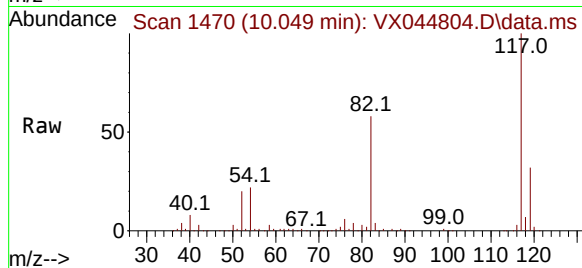
Tgt Ion:117 Resp: 232979

Ion Ratio Lower Upper

117 100

82 57.8 47.6 71.4

119 31.9 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX044804.D

Acq: 03 Feb 2025 10:44

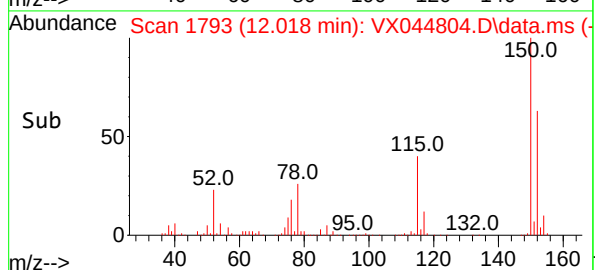
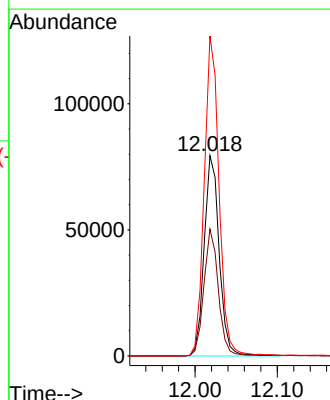
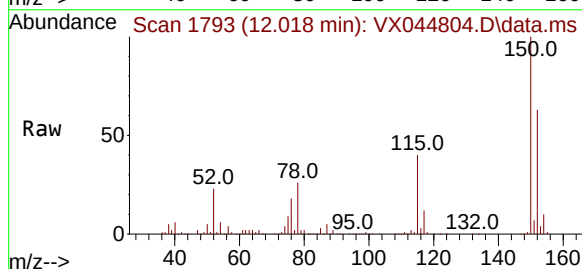
Tgt Ion:152 Resp: 100905

Ion Ratio Lower Upper

152 100

115 61.2 43.8 131.4

150 157.6 0.0 347.8



Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VX0203WBS01	SDG No.:	Q1235
Lab Sample ID:	VX0203WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044805.D	1		02/03/25 11:07	VX020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	20.2		0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	16.8		0.26	5.00	ug/L
78-93-3	2-Butanone	110		1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	17.6		0.25	5.00	ug/L
67-66-3	Chloroform	19.3		0.26	5.00	ug/L
71-43-2	Benzene	20.7		0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.0		0.24	5.00	ug/L
79-01-6	Trichloroethene	19.4		0.32	5.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.25	5.00	ug/L
108-90-7	Chlorobenzene	19.9		0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.1		74 - 125	86%	SPK: 50
1868-53-7	Dibromofluoromethane	46.5		75 - 124	93%	SPK: 50
2037-26-5	Toluene-d8	50.2		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	152000	5.544			
540-36-3	1,4-Difluorobenzene	276000	6.757			
3114-55-4	Chlorobenzene-d5	242000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	108000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044805.D
 Acq On : 03 Feb 2025 11:07
 Operator : JC/MD
 Sample : VX0203WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0203WBS01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:05:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	151779	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	276067	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	242310	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	107943	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	98701	43.082	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	86.160%		
35) Dibromofluoromethane	5.379	113	81631	46.545	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.080%		
50) Toluene-d8	8.647	98	307152	50.228	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.460%		
62) 4-Bromofluorobenzene	11.079	95	108190	47.458	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	94.920%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	37035	18.133	ug/l	98
3) Chloromethane	1.307	50	45886	20.776	ug/l	100
4) Vinyl Chloride	1.374	62	43980	20.153	ug/l	98
5) Bromomethane	1.593	94	12016	23.060	ug/l	95
6) Chloroethane	1.666	64	17283	43.188	ug/l	100
7) Trichlorofluoromethane	1.874	101	55799	23.135	ug/l	99
8) Diethyl Ether	2.130	74	16397	16.846	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.319	101	33617	18.542	ug/l	97
10) Methyl Iodide	2.447	142	43114	17.417	ug/l	92
11) Tert butyl alcohol	2.971	59	42368	82.955	ug/l #	82
12) 1,1-Dichloroethene	2.313	96	29904	16.827	ug/l	92
13) Acrolein	2.233	56	13741	57.172	ug/l	92
14) Allyl chloride	2.654	41	59191	17.106	ug/l	96
15) Acrylonitrile	3.063	53	87810	87.657	ug/l	99
16) Acetone	2.380	43	79139	87.310	ug/l	94
17) Carbon Disulfide	2.502	76	78503	16.188	ug/l	100
18) Methyl Acetate	2.703	43	51979	18.588	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	115173	17.892	ug/l	100
20) Methylene Chloride	2.782	84	35521	16.828	ug/l	98
21) trans-1,2-Dichloroethene	3.087	96	31659	17.063	ug/l	97
22) Diisopropyl ether	3.758	45	113346	18.844	ug/l	95
23) Vinyl Acetate	3.715	43	475314	90.285	ug/l	99
24) 1,1-Dichloroethane	3.605	63	65529	18.372	ug/l	98
25) 2-Butanone	4.556	43	142936	106.062	ug/l	99
26) 2,2-Dichloropropane	4.465	77	60119	17.391	ug/l	95
27) cis-1,2-Dichloroethene	4.489	96	44993	19.278	ug/l	98
28) Bromochloromethane	4.891	49	35017	21.009	ug/l	93
29) Tetrahydrofuran	5.001	42	94460	108.664	ug/l	96
30) Chloroform	5.087	83	69627	19.343	ug/l	98
31) Cyclohexane	5.465	56	63642	22.061	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	58095	17.556	ug/l	100
36) 1,1-Dichloropropene	5.690	75	47190	19.329	ug/l	99
37) Ethyl Acetate	4.715	43	54836	21.092	ug/l	98
38) Carbon Tetrachloride	5.666	117	48299	17.588	ug/l	98
39) Methylcyclohexane	7.373	83	66006	20.367	ug/l	100
40) Benzene	6.032	78	156314	20.662	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044805.D
 Acq On : 03 Feb 2025 11:07
 Operator : JC/MD
 Sample : VX0203WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0203WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:05:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	30477	20.117	ug/l	99
42) 1,2-Dichloroethane	6.080	62	49626	17.973	ug/l	100
43) Isopropyl Acetate	6.336	43	92685	19.379	ug/l	99
44) Trichloroethene	7.123	130	35209	19.359	ug/l	98
45) 1,2-Dichloropropane	7.428	63	40268	21.146	ug/l	96
46) Dibromomethane	7.580	93	27392	18.896	ug/l	98
47) Bromodichloromethane	7.818	83	53846	18.112	ug/l	94
48) Methyl methacrylate	7.690	41	44083	19.857	ug/l	99
49) 1,4-Dioxane	7.659	88	19327	417.265	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	290951	110.081	ug/l	98
52) Toluene	8.714	92	95820	20.694	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	56705	18.462	ug/l	94
54) cis-1,3-Dichloropropene	8.366	75	62067	18.636	ug/l	97
55) 1,1,2-Trichloroethane	9.147	97	38045	20.308	ug/l	97
56) Ethyl methacrylate	9.116	69	64208	19.933	ug/l	99
57) 1,3-Dichloropropane	9.305	76	64638	20.262	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	139078	87.947	ug/l	97
59) 2-Hexanone	9.427	43	213385	109.737	ug/l	99
60) Dibromochloromethane	9.519	129	40586	18.458	ug/l	99
61) 1,2-Dibromoethane	9.604	107	37936	19.323	ug/l	100
64) Tetrachloroethene	9.269	164	28697	18.860	ug/l	97
65) Chlorobenzene	10.073	112	102598	19.934	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	34132	18.248	ug/l	99
67) Ethyl Benzene	10.189	91	180008	20.045	ug/l	100
68) m/p-Xylenes	10.299	106	135490	40.657	ug/l	96
69) o-Xylene	10.640	106	69022	20.480	ug/l	96
70) Styrene	10.653	104	113346	20.831	ug/l	97
71) Bromoform	10.799	173	26269	17.255	ug/l #	97
73) Isopropylbenzene	10.957	105	172841	19.601	ug/l	99
74) N-amyl acetate	10.842	43	80964	18.628	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	59880	19.661	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	47698m	18.208	ug/l	
77) Bromobenzene	11.195	156	39304	19.069	ug/l	96
78) n-propylbenzene	11.299	91	198314	20.392	ug/l	99
79) 2-Chlorotoluene	11.360	91	119970	19.097	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	141828	19.757	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	19878	17.353	ug/l	98
82) 4-Chlorotoluene	11.451	91	133356	19.379	ug/l	96
83) tert-Butylbenzene	11.713	119	145335	19.362	ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	140872	19.311	ug/l	98
85) sec-Butylbenzene	11.890	105	176864	20.237	ug/l	99
86) p-Isopropyltoluene	12.006	119	143197	19.937	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	70582	19.746	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	70484	19.506	ug/l	100
89) n-Butylbenzene	12.329	91	125028	20.268	ug/l	99
90) Hexachloroethane	12.536	117	28043	17.242	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	72245	19.681	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.939	75	11160	14.983	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	41539	18.929	ug/l	98
94) Hexachlorobutadiene	13.719	225	15697	18.210	ug/l	99
95) Naphthalene	13.774	128	162454	19.194	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	41958	18.446	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
Data File : VX044805.D
Acq On : 03 Feb 2025 11:07
Operator : JC/MD
Sample : VX0203WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:05:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

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

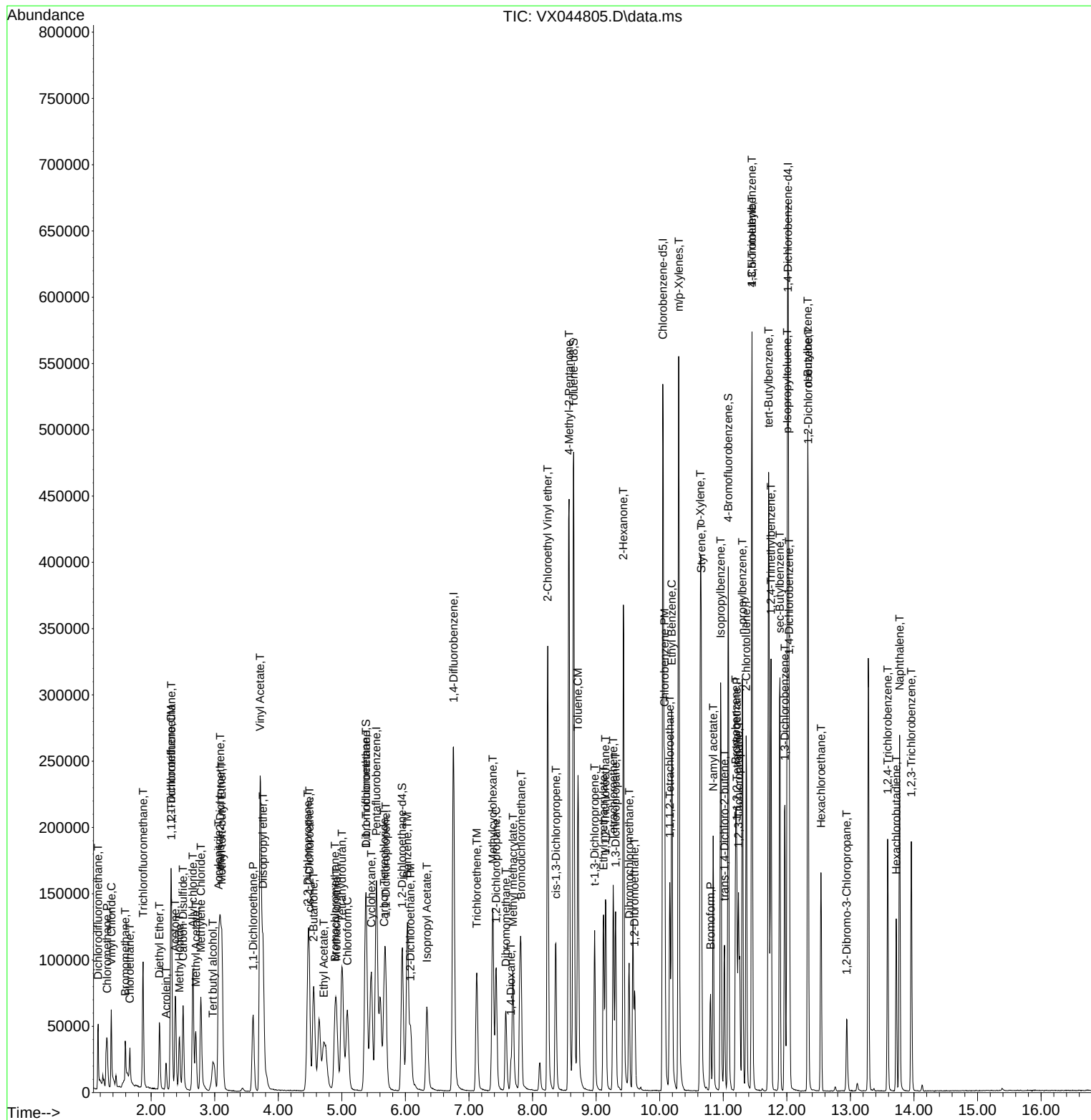
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
Data File : VX044805.D
Acq On : 03 Feb 2025 11:07
Operator : JC/MD
Sample : VX0203WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

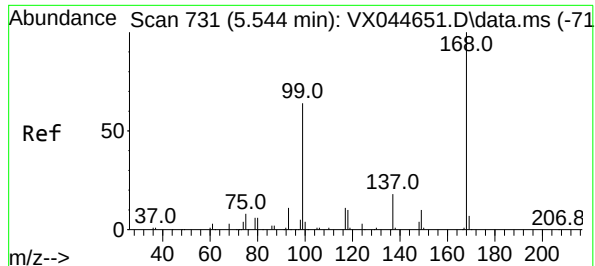
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01

Manual Integrations

Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

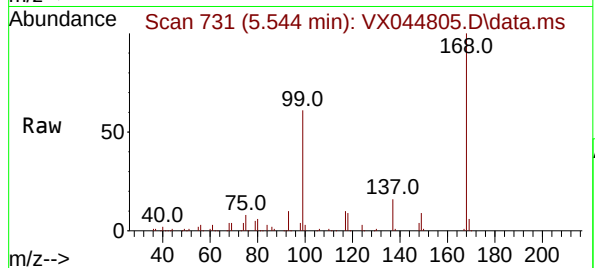
Quant Time: Feb 04 02:05:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

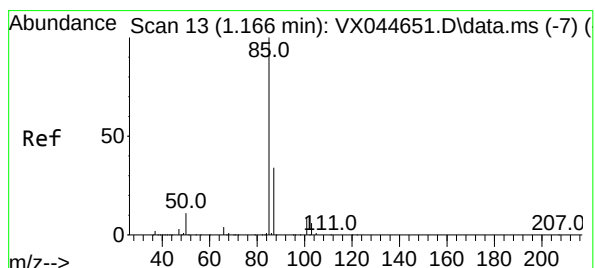
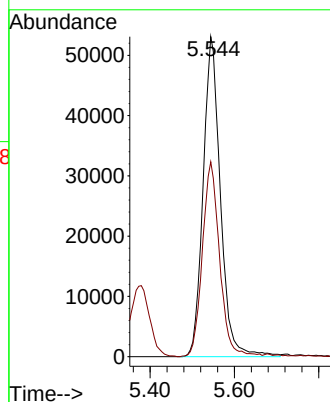
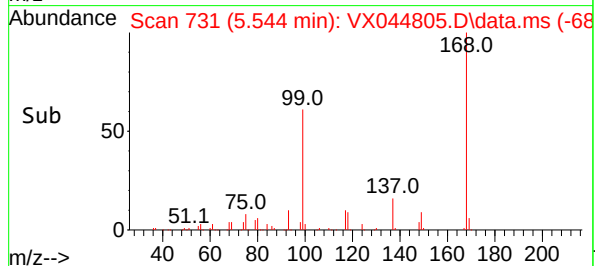
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion:168 Resp: 151779
Ion Ratio Lower Upper
168 100
99 60.9 51.1 76.7

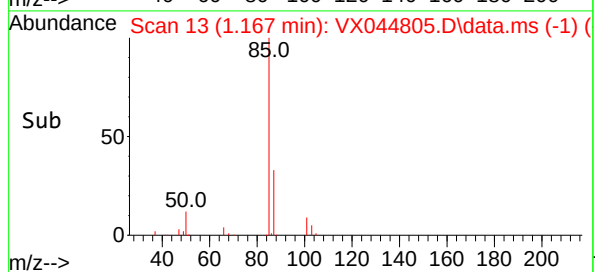
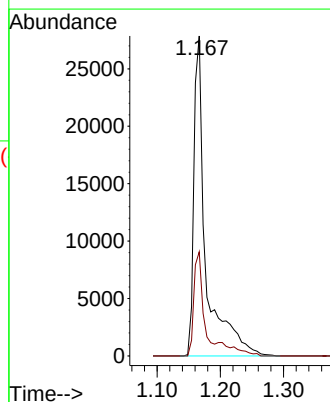
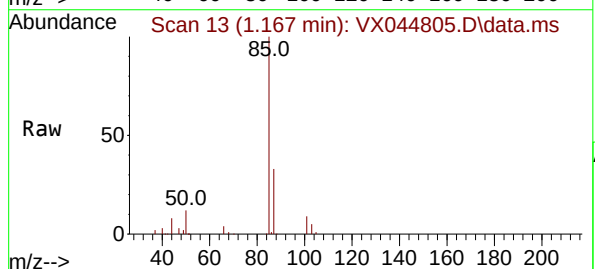
Manual Integrations
APPROVED

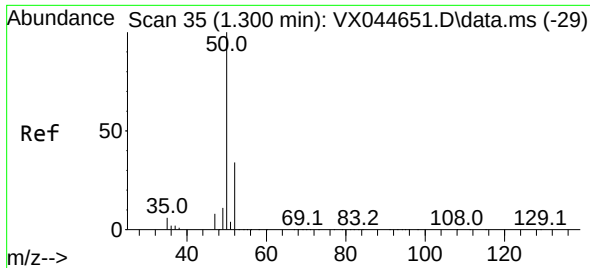
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#2
Dichlorodifluoromethane
Concen: 18.133 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Tgt Ion: 85 Resp: 37035
Ion Ratio Lower Upper
85 100
87 32.5 16.8 50.4





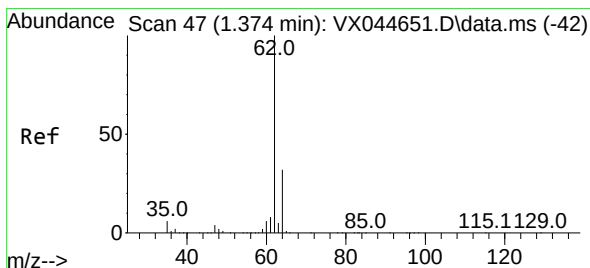
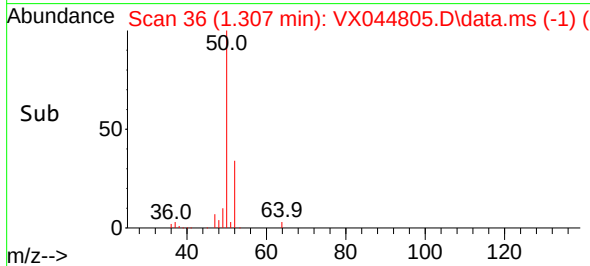
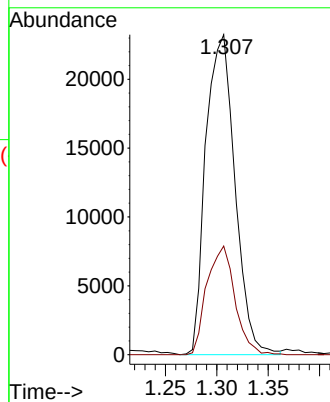
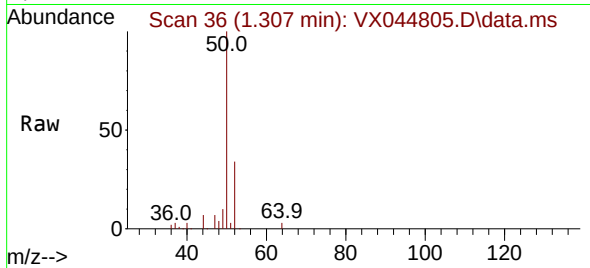
#3
Chloromethane
Concen: 20.776 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.006 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01

Tgt Ion: 50 Resp: 45880
Ion Ratio Lower Upper
50 100
52 34.0 27.0 40.4

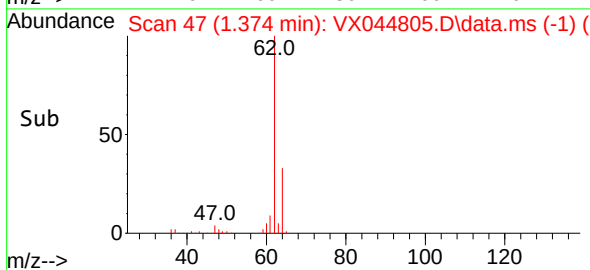
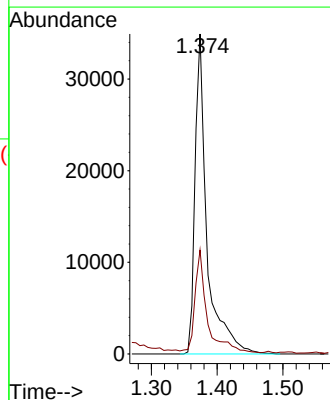
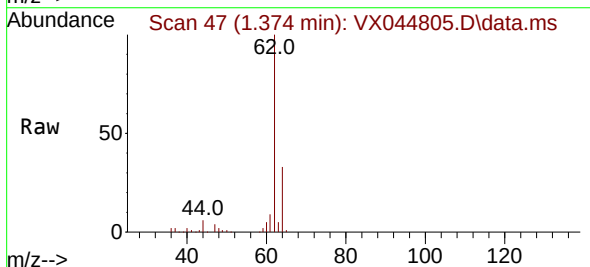
Manual Integrations
APPROVED

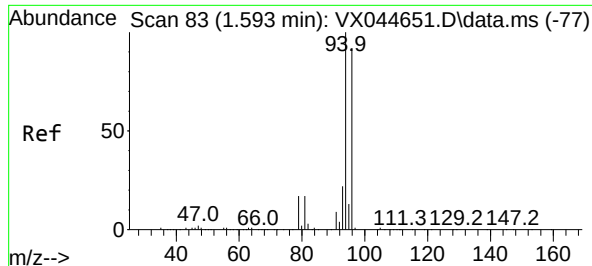
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#4
Vinyl Chloride
Concen: 20.153 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

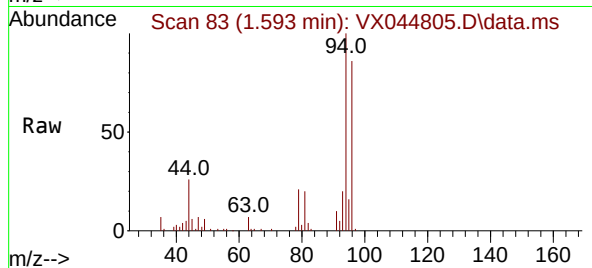
Tgt Ion: 62 Resp: 43980
Ion Ratio Lower Upper
62 100
64 31.9 26.6 39.8





#5
Bromomethane
Concen: 23.060 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

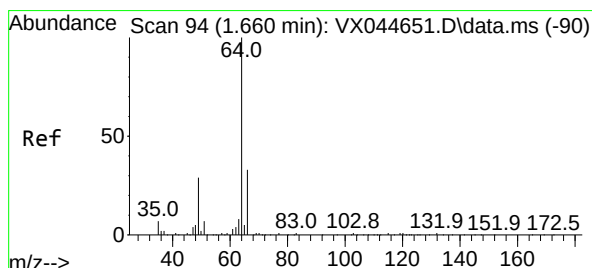
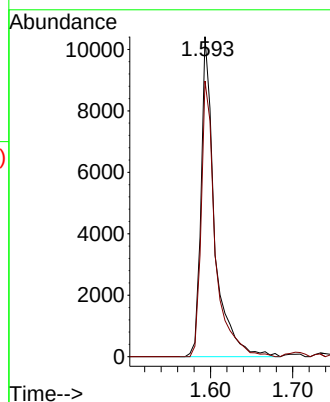
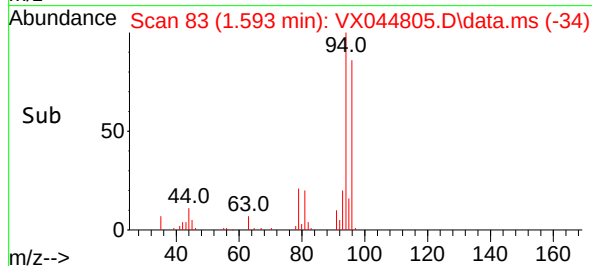
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion: 94 Resp: 12010
Ion Ratio Lower Upper
94 100
96 86.2 72.8 109.2

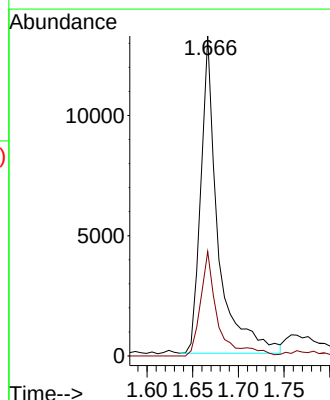
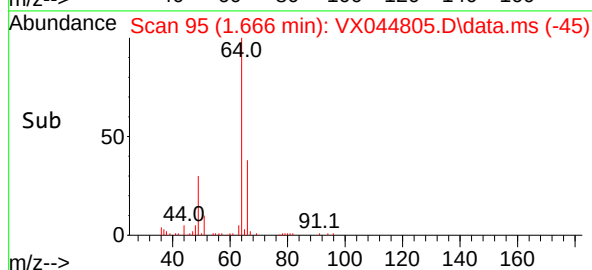
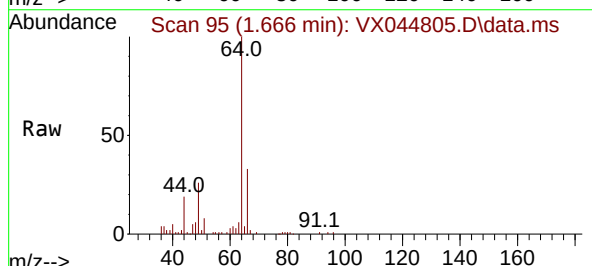
Manual Integrations
APPROVED

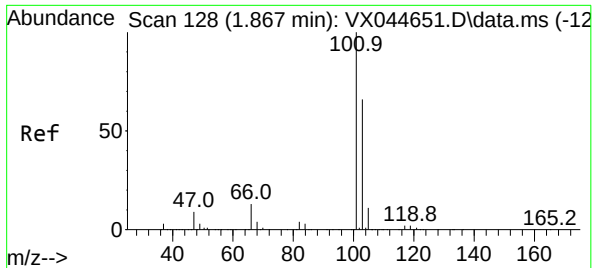
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#6
Chloroethane
Concen: 43.188 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Tgt Ion: 64 Resp: 17283
Ion Ratio Lower Upper
64 100
66 32.9 26.6 39.8





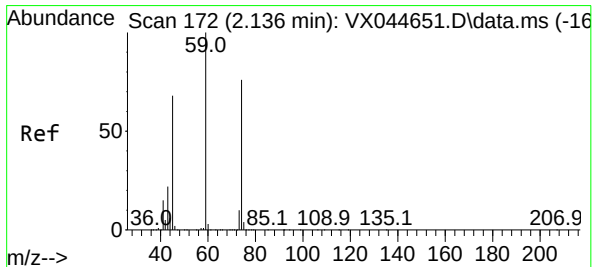
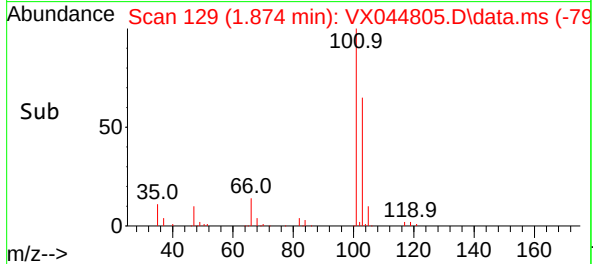
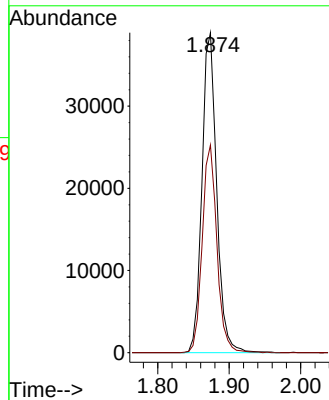
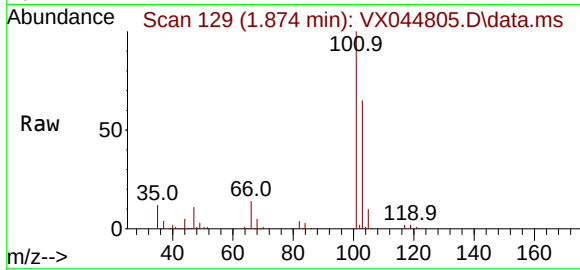
#7
Trichlorofluoromethane
Concen: 23.135 ug/l
RT: 1.874 min Scan# 101
Delta R.T. 0.006 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01

Tgt Ion:101 Resp: 55799
Ion Ratio Lower Upper
101 100
103 64.9 52.5 78.7

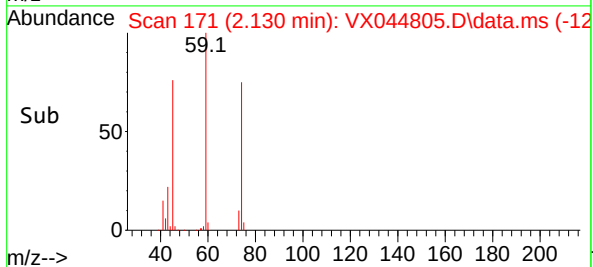
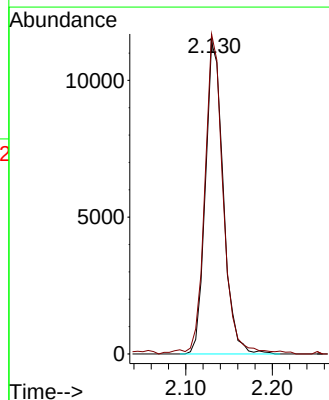
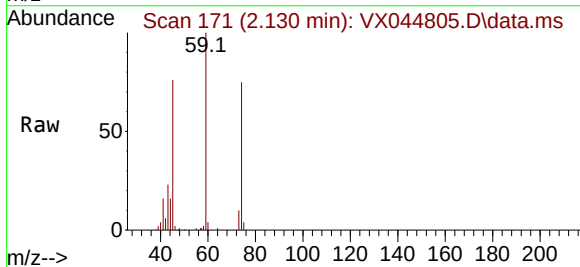
Manual Integrations
APPROVED

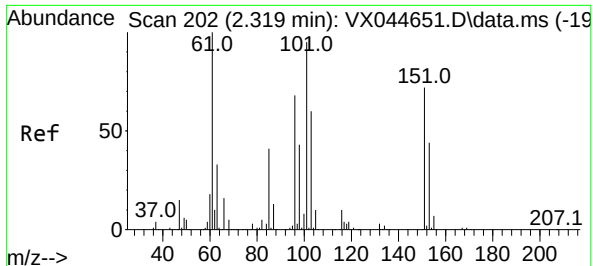
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#8
Diethyl Ether
Concen: 16.846 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

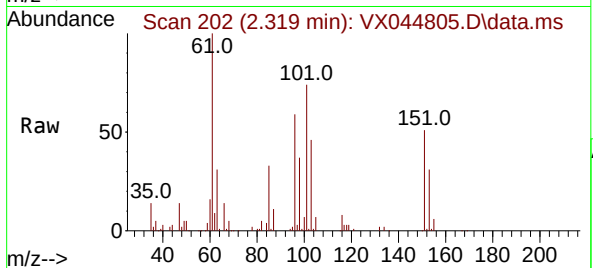
Tgt Ion: 74 Resp: 16397
Ion Ratio Lower Upper
74 100
45 105.2 47.1 141.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.542 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

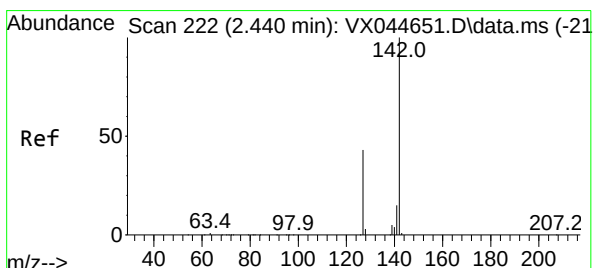
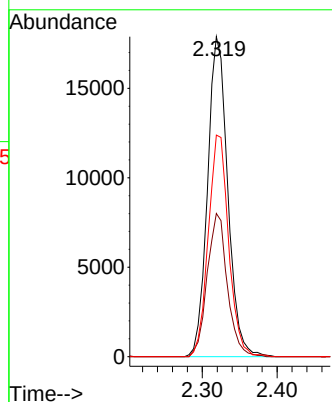
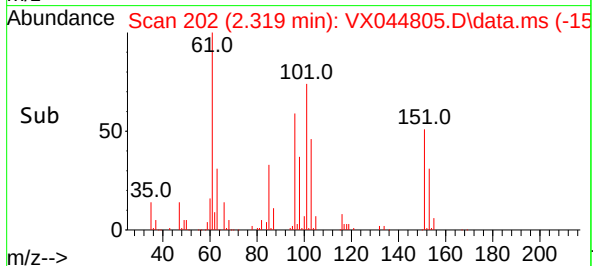
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



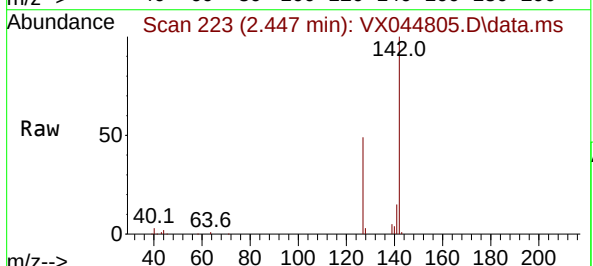
Tgt Ion:101 Resp: 3361
Ion Ratio Lower Upper
101 100
85 44.6 35.3 52.9
151 69.8 58.2 87.4

Manual Integrations
APPROVED

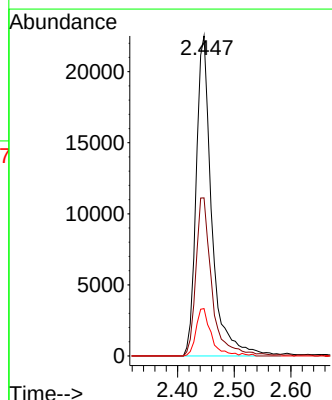
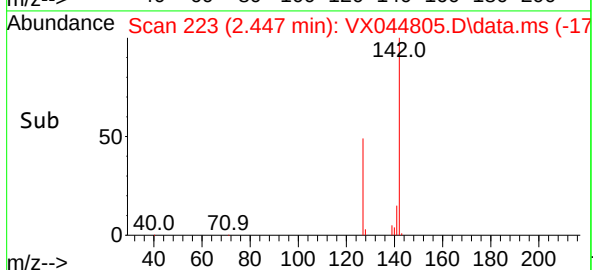
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

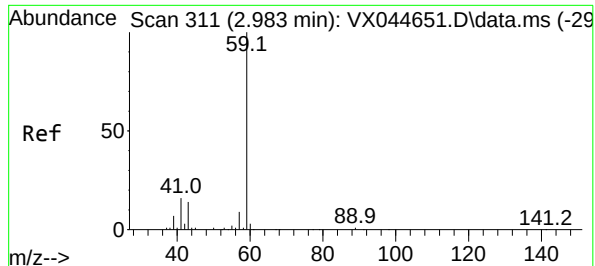


#10
Methyl Iodide
Concen: 17.417 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07



Tgt Ion:142 Resp: 43114
Ion Ratio Lower Upper
142 100
127 50.6 35.0 52.4
141 14.7 11.7 17.5





#11

Tert butyl alcohol

Concen: 82.955 ug/l

RT: 2.971 min Scan# 30

Delta R.T. -0.012 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 59 Resp: 4236

Ion Ratio Lower Upper

59 100

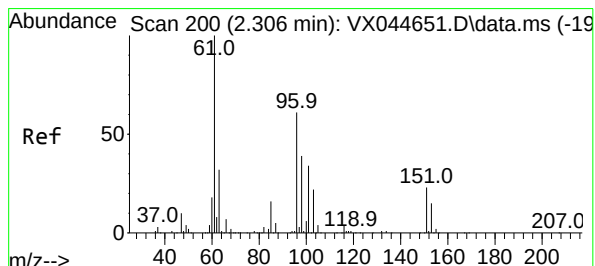
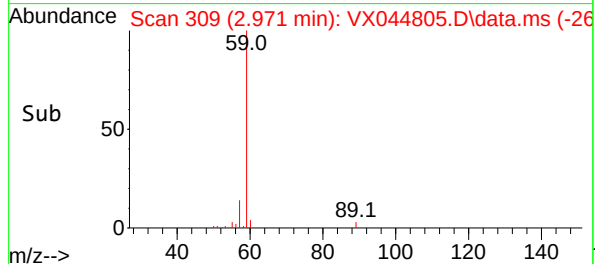
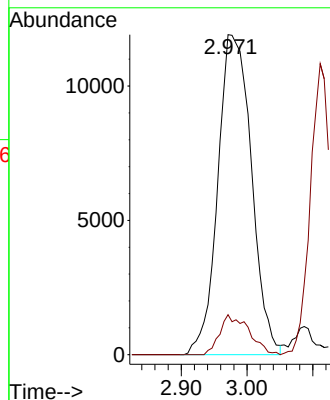
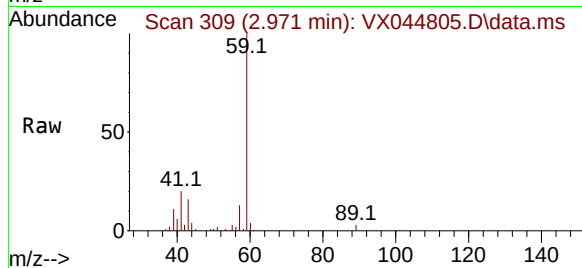
57 10.8 3.9 5.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#12

1,1-Dichloroethene

Concen: 16.827 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

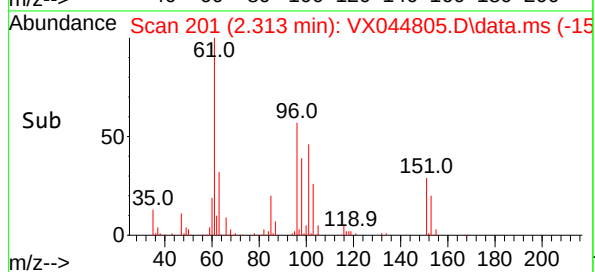
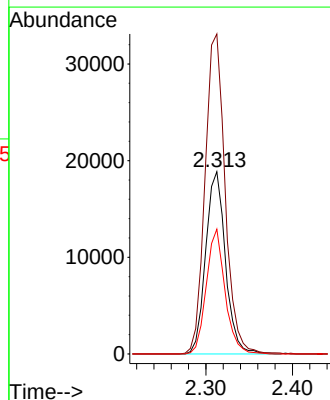
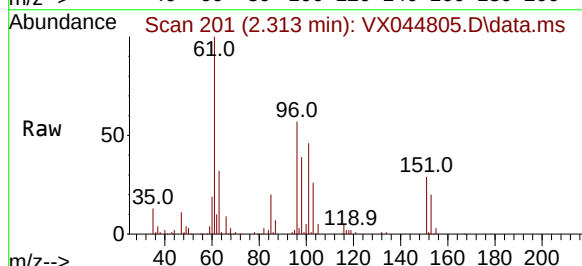
Tgt Ion: 96 Resp: 29904

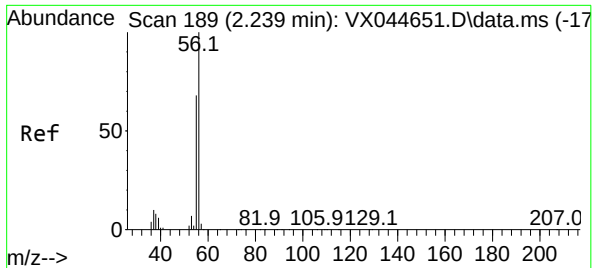
Ion Ratio Lower Upper

96 100

61 175.6 131.1 196.7

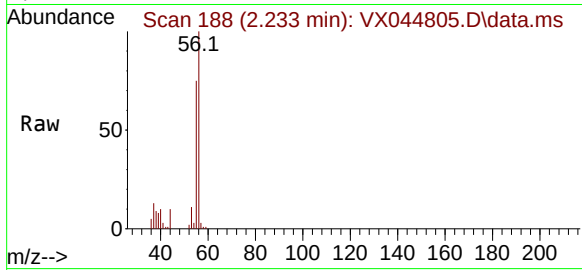
98 68.5 51.2 76.8





#13
Acrolein
Concen: 57.172 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

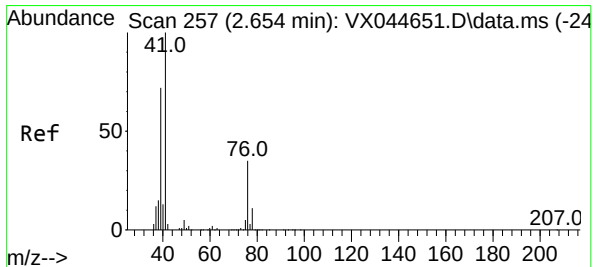
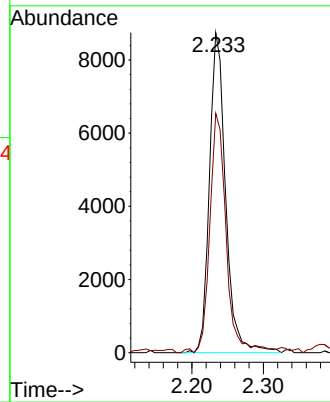
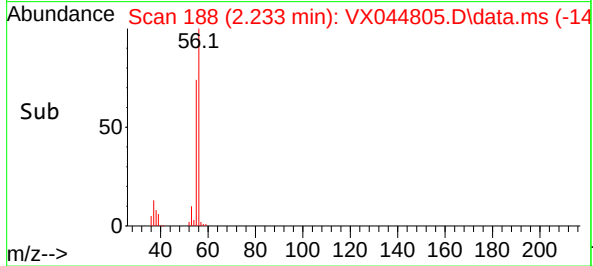
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion: 56 Resp: 1374
Ion Ratio Lower Upper
56 100
55 75.5 55.1 82.7

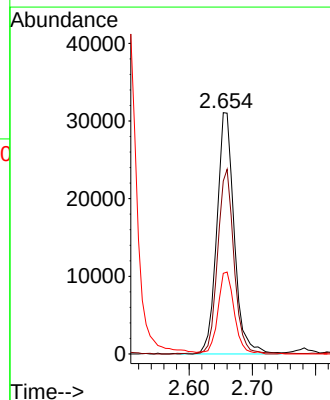
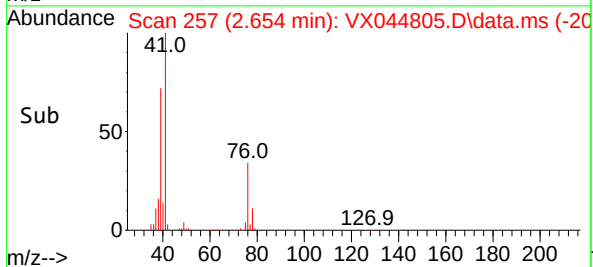
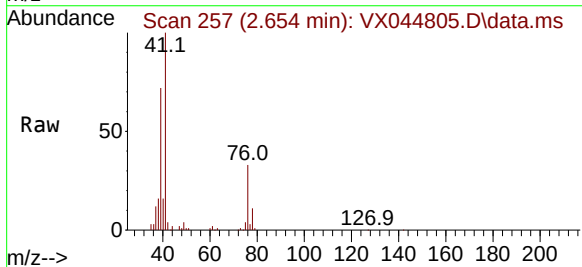
Manual Integrations
APPROVED

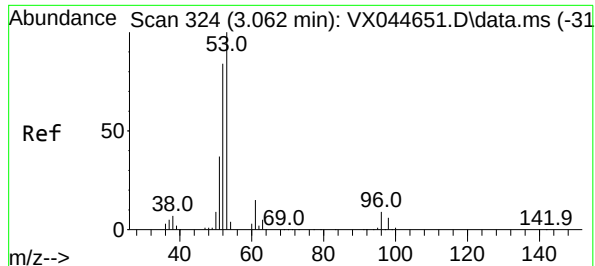
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#14
Allyl chloride
Concen: 17.106 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Tgt Ion: 41 Resp: 59191
Ion Ratio Lower Upper
41 100
39 71.7 54.9 82.3
76 32.1 28.4 42.6





#15

Acrylonitrile

Concen: 87.657 ug/l

RT: 3.063 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 53 Resp: 87810

Ion Ratio Lower Upper

53 100

52 82.6 66.0 99.0

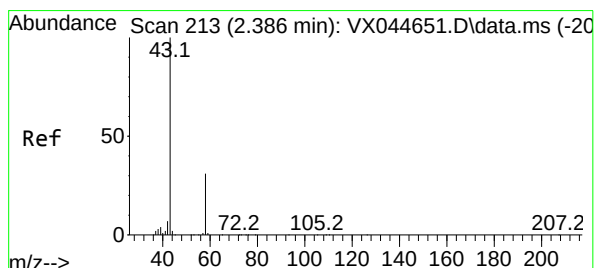
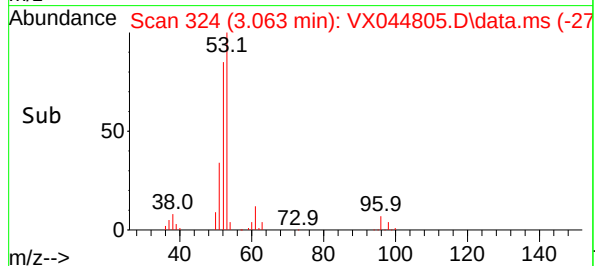
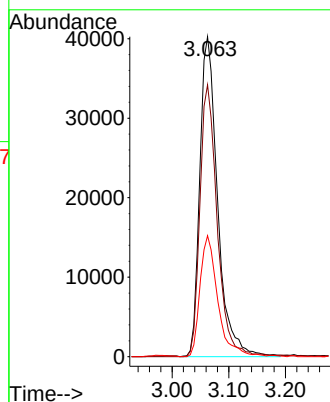
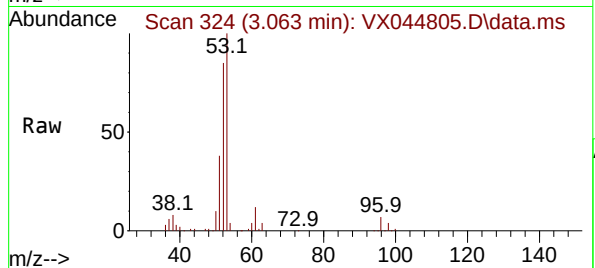
51 37.8 28.9 43.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#16

Acetone

Concen: 87.310 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX044805.D

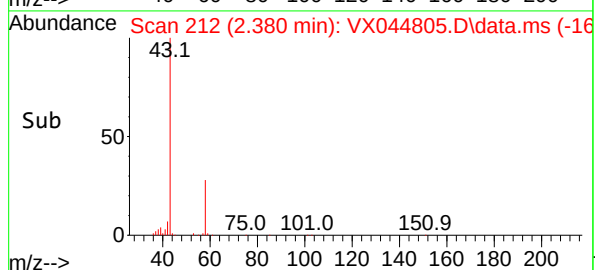
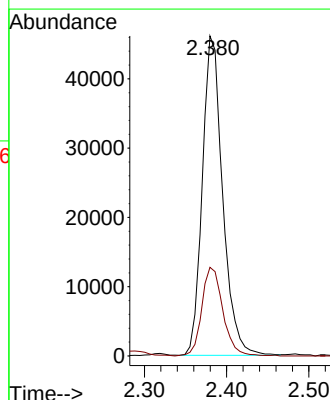
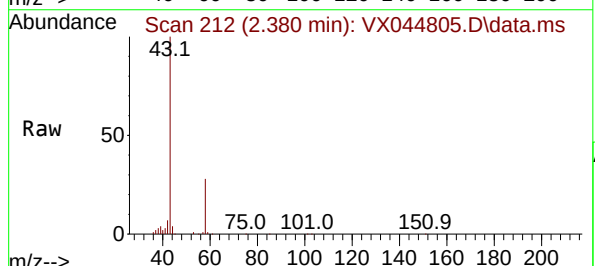
Acq: 03 Feb 2025 11:07

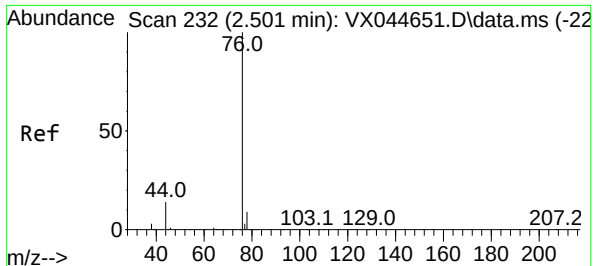
Tgt Ion: 43 Resp: 79139

Ion Ratio Lower Upper

43 100

58 27.8 24.6 37.0





#17

Carbon Disulfide

Concen: 16.188 ug/l

RT: 2.502 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 76 Resp: 7850

Ion Ratio Lower Upper

76 100

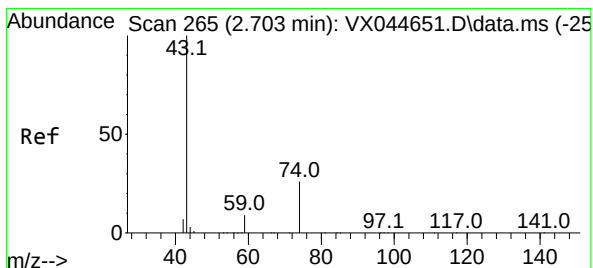
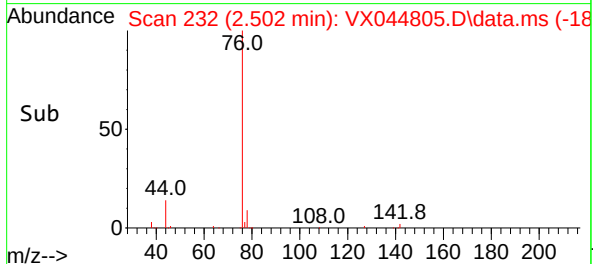
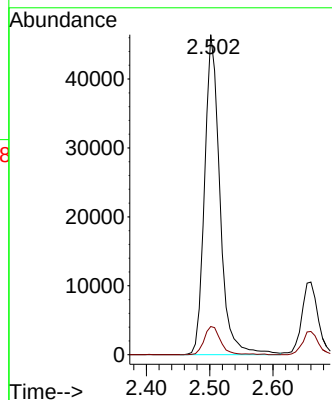
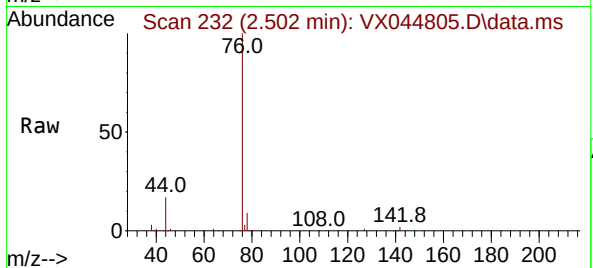
78 8.8 7.1 10.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#18

Methyl Acetate

Concen: 18.588 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX044805.D

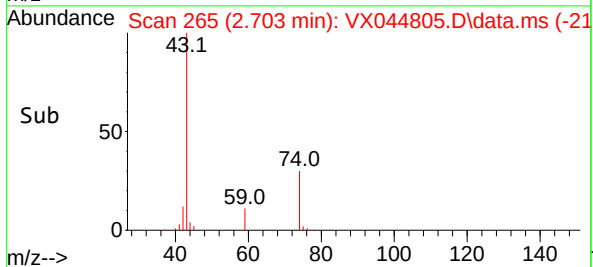
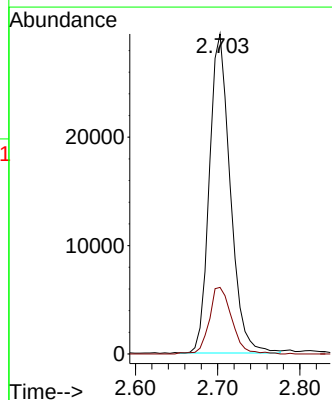
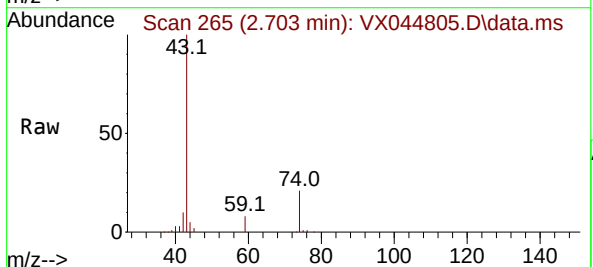
Acq: 03 Feb 2025 11:07

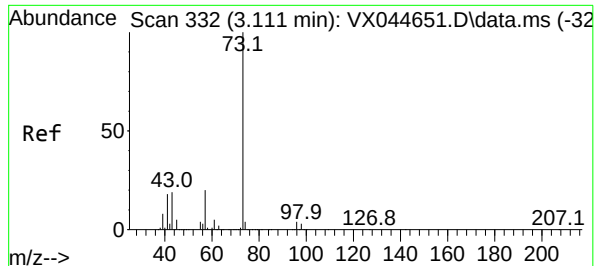
Tgt Ion: 43 Resp: 51979

Ion Ratio Lower Upper

43 100

74 22.6 19.8 29.8





#19

Methyl tert-butyl Ether

Concen: 17.892 ug/l

RT: 3.111 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 73 Resp: 11517

Ion Ratio Lower Upper

73 100

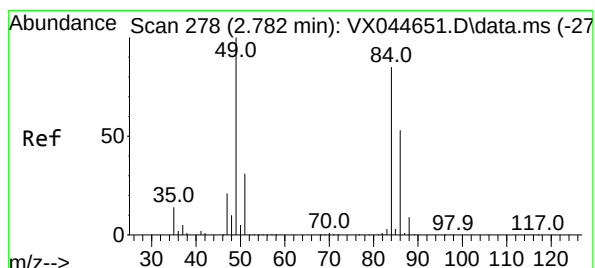
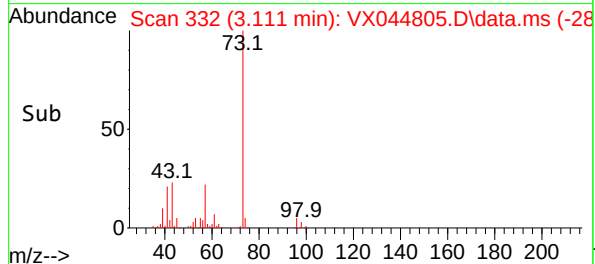
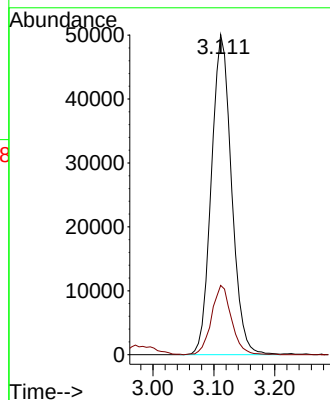
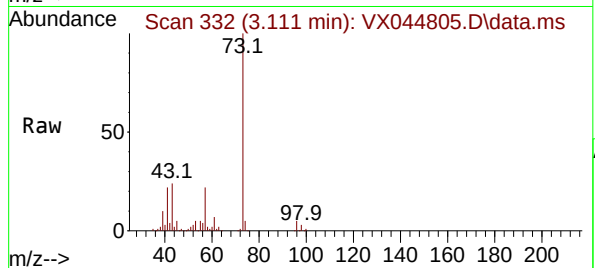
57 21.6 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#20

Methylene Chloride

Concen: 16.828 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Tgt Ion: 84 Resp: 35521

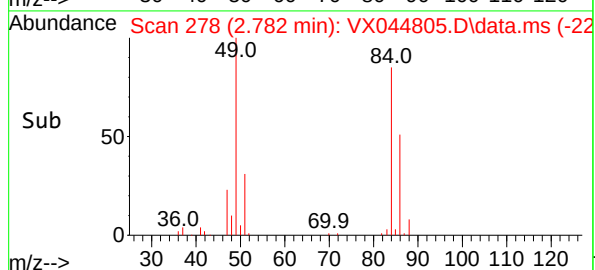
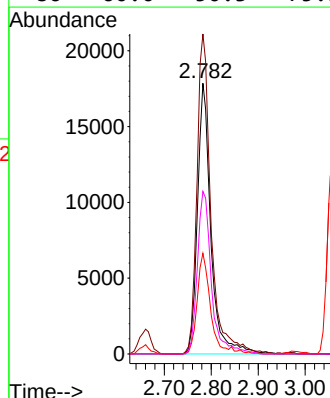
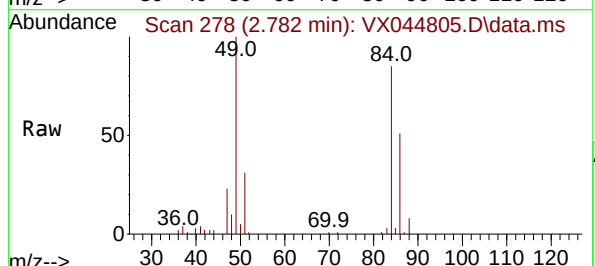
Ion Ratio Lower Upper

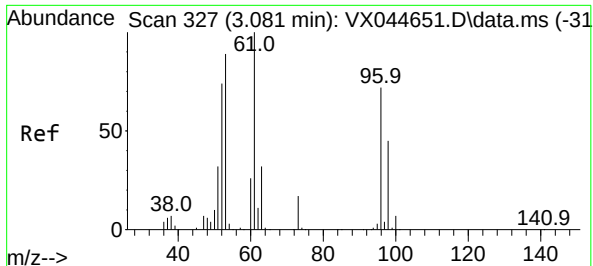
84 100

49 118.2 94.2 141.4

51 37.2 28.8 43.2

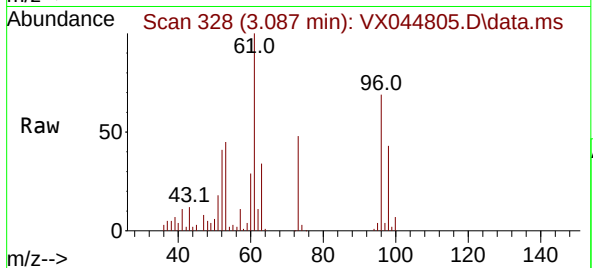
86 60.0 50.3 75.5





#21
trans-1,2-Dichloroethene
Concen: 17.063 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

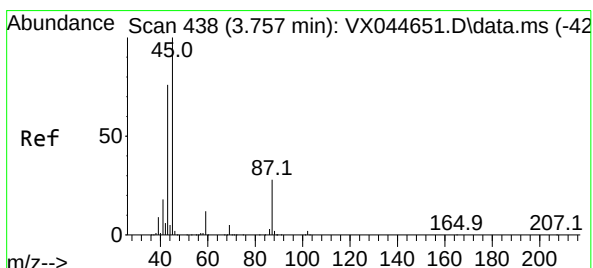
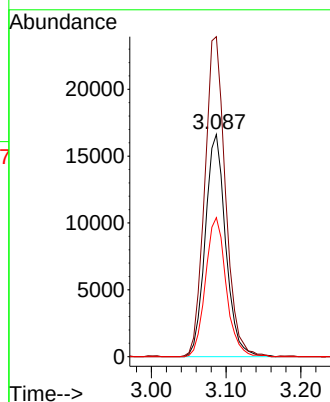
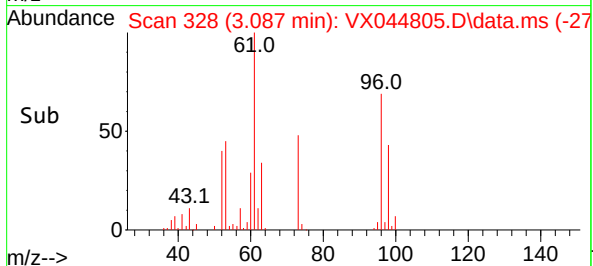
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion: 96 Resp: 31658
Ion Ratio Lower Upper
96 100
61 144.0 111.0 166.6
98 62.6 50.2 75.2

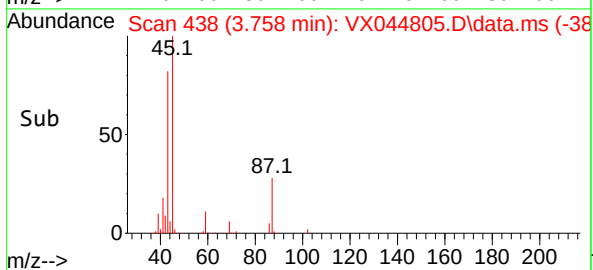
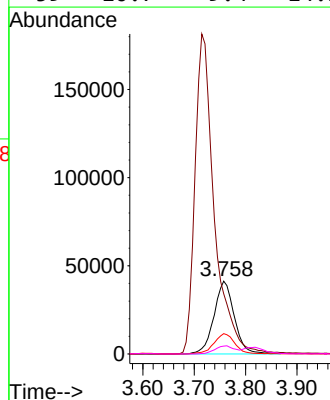
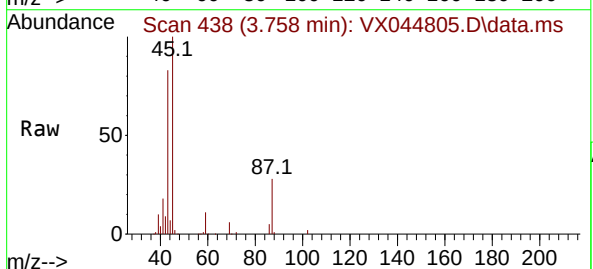
Manual Integrations
APPROVED

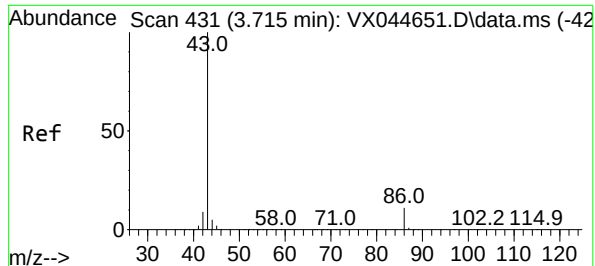
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#22
Diisopropyl ether
Concen: 18.844 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Tgt Ion: 45 Resp: 113346
Ion Ratio Lower Upper
45 100
43 82.3 61.0 91.6
87 27.9 22.7 34.1
59 10.7 9.4 14.2





#23

Vinyl Acetate

Concen: 90.285 ug/l

RT: 3.715 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 43 Resp: 475314

Ion Ratio Lower Upper

43

100

86

10.7

8.9

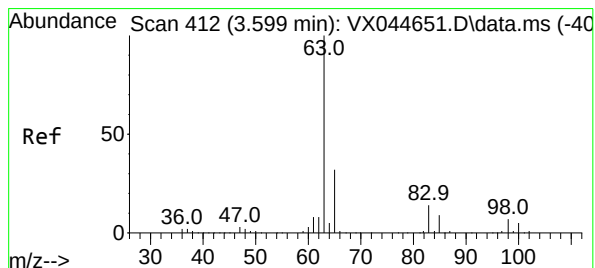
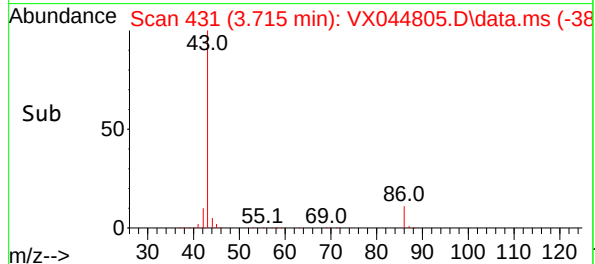
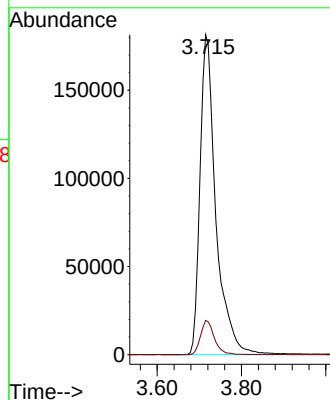
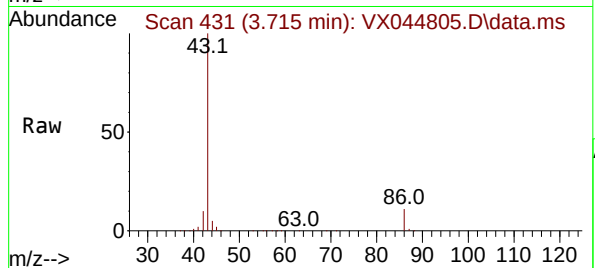
13.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#24

1,1-Dichloroethane

Concen: 18.372 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Tgt Ion: 63 Resp: 65529

Ion Ratio Lower Upper

63

100

98

6.6

3.6

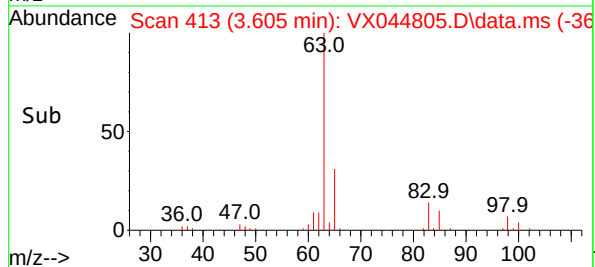
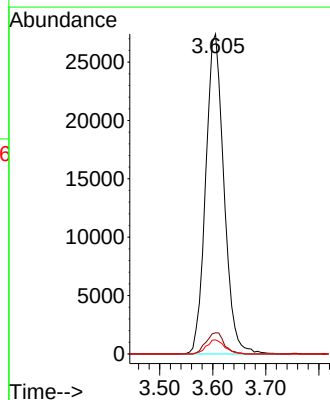
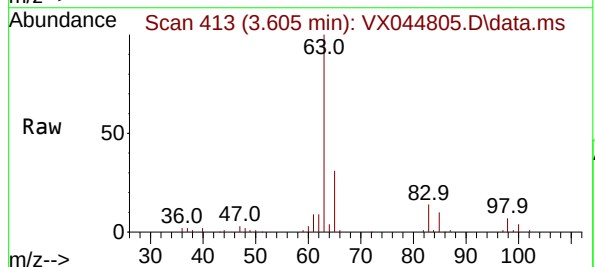
10.9

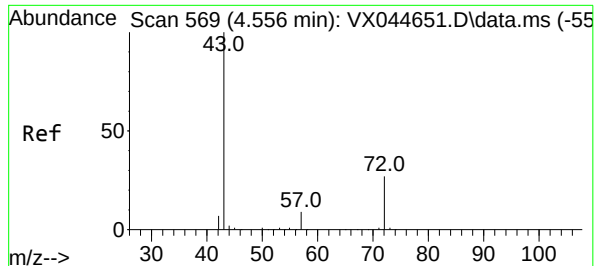
100

4.4

2.5

7.5





#25

2-Butanone

Concen: 106.062 ug/l

RT: 4.556 min Scan# 569

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 43 Resp: 142930

Ion Ratio Lower Upper

43 100

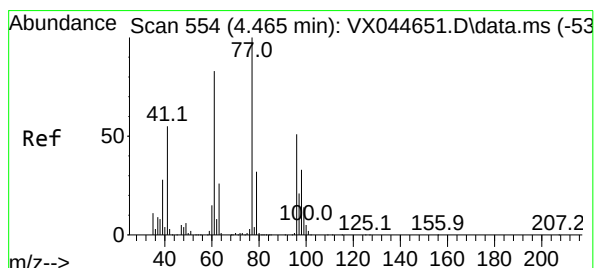
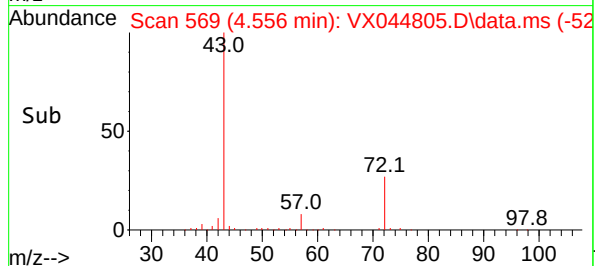
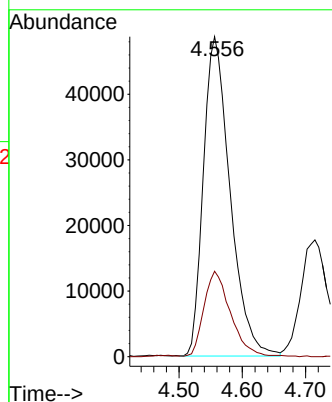
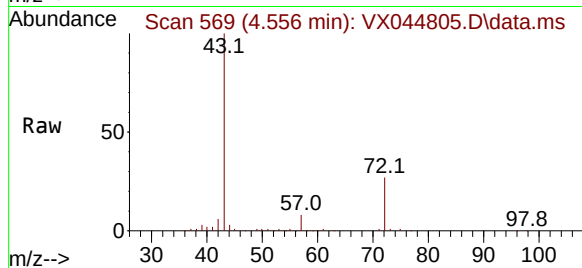
72 26.5 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#26

2,2-Dichloropropane

Concen: 17.391 ug/l

RT: 4.465 min Scan# 554

Delta R.T. 0.000 min

Lab File: VX044805.D

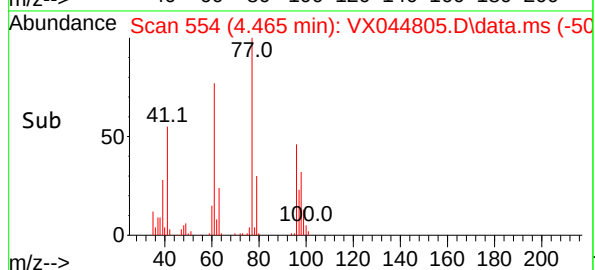
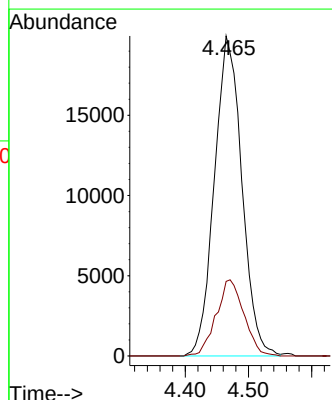
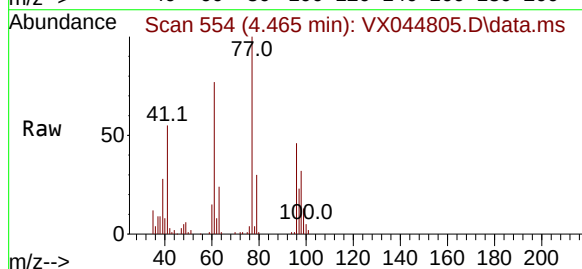
Acq: 03 Feb 2025 11:07

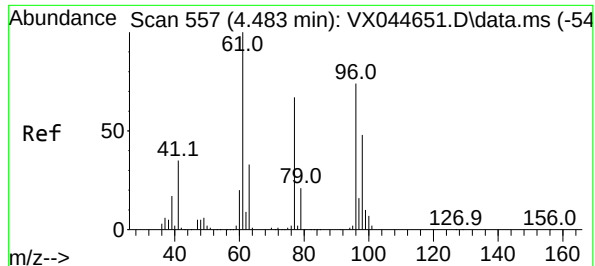
Tgt Ion: 77 Resp: 60119

Ion Ratio Lower Upper

77 100

97 24.0 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 19.278 ug/l

RT: 4.489 min Scan# 557

Delta R.T. 0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 96 Resp: 4499

Ion Ratio Lower Upper

96 100

61 146.2 0.0 296.0

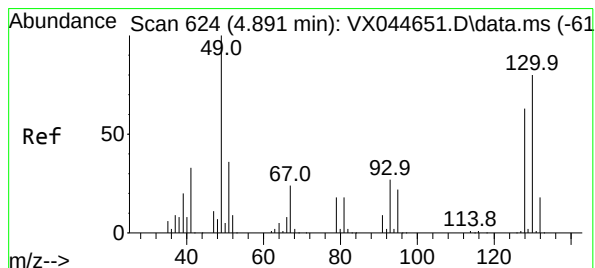
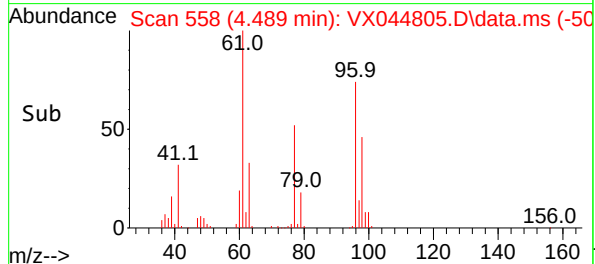
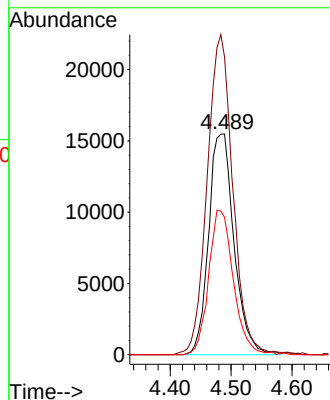
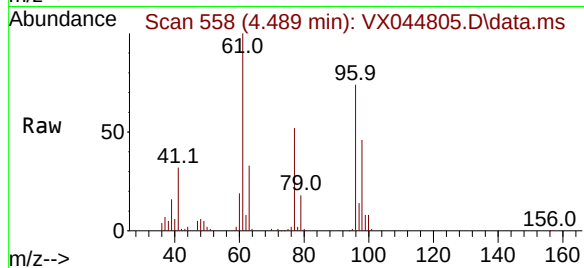
98 63.4 0.0 130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#28

Bromochloromethane

Concen: 21.009 ug/l

RT: 4.891 min Scan# 624

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

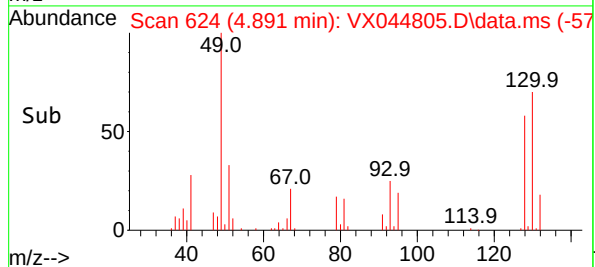
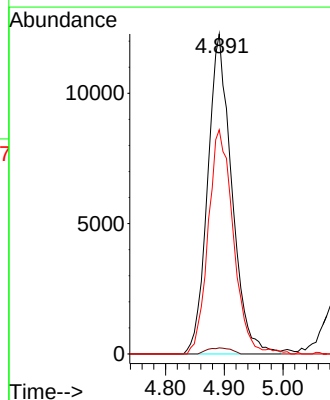
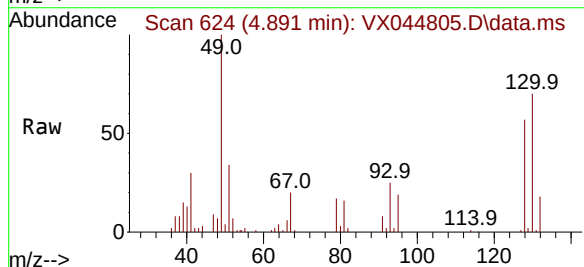
Tgt Ion: 49 Resp: 35017

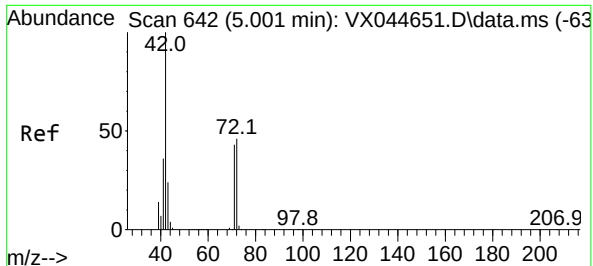
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.4

130 73.0 63.4 95.2





#29

Tetrahydrofuran

Concen: 108.664 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 42 Resp: 94460

Ion Ratio Lower Upper

42 100

72 45.8 38.2 57.4

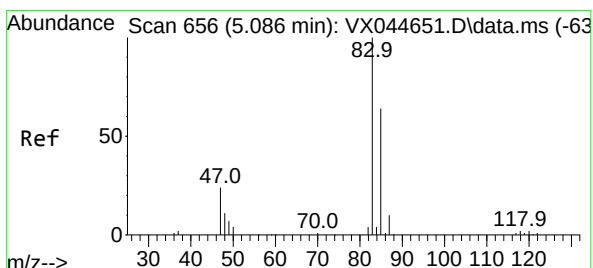
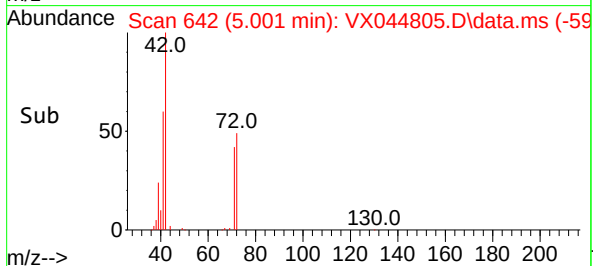
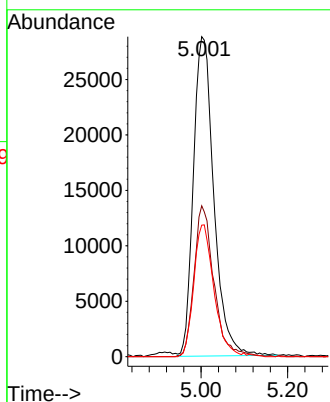
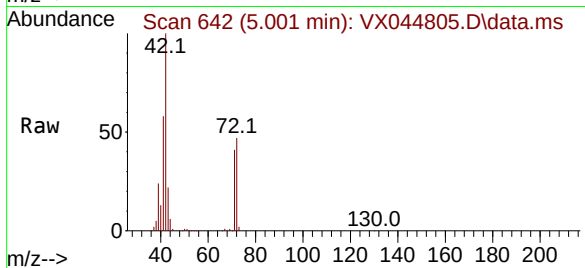
71 40.7 35.3 52.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#30

Chloroform

Concen: 19.343 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044805.D

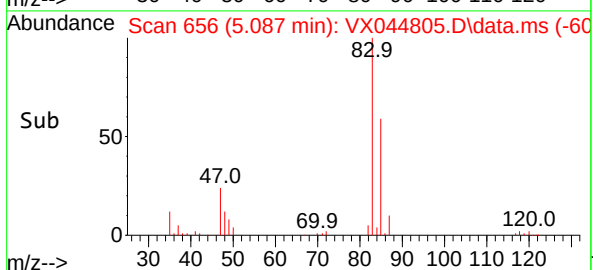
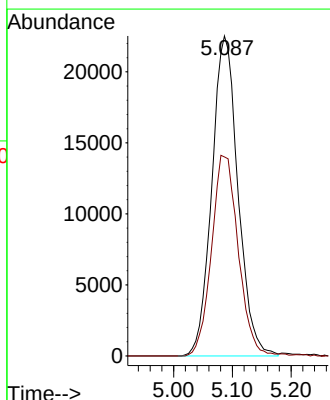
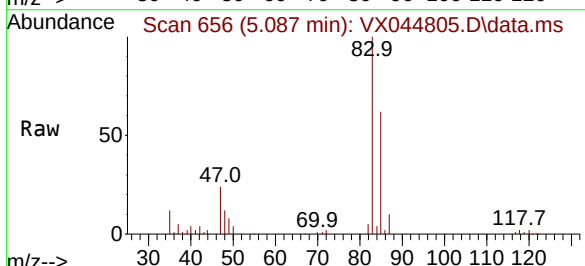
Acq: 03 Feb 2025 11:07

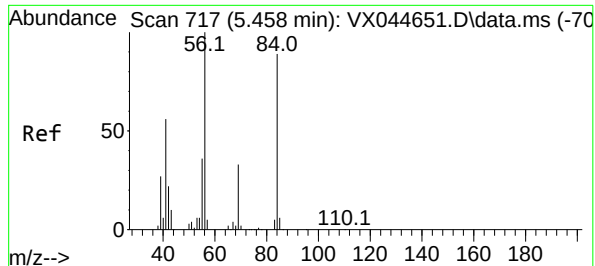
Tgt Ion: 83 Resp: 69627

Ion Ratio Lower Upper

83 100

85 62.2 51.2 76.8





#31

Cyclohexane

Concen: 22.061 ug/l

RT: 5.465 min Scan# 718

Delta R.T. 0.006 min

Lab File: VX044805.D

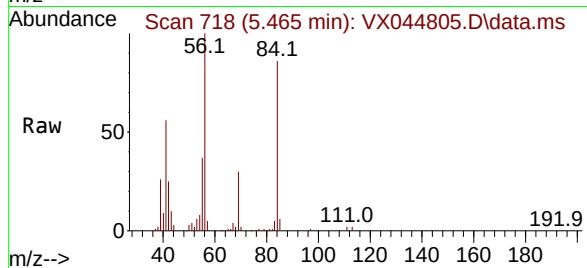
Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01



Tgt Ion: 56 Resp: 6364

Ion Ratio Lower Upper

56 100

69 29.9 26.8 40.2

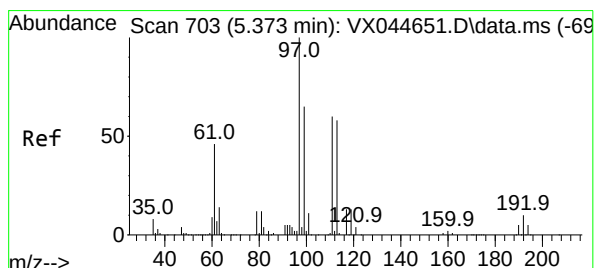
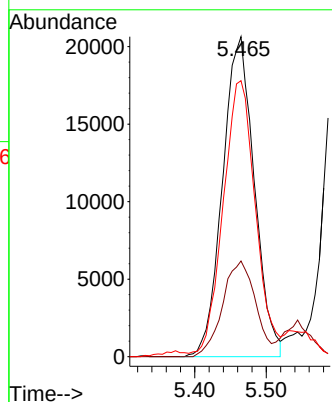
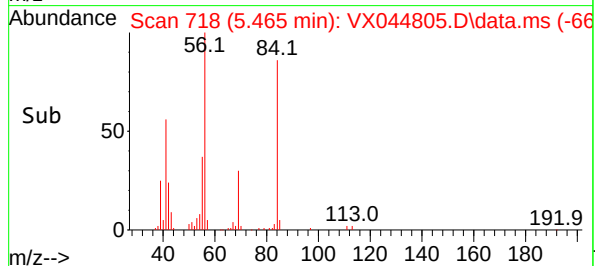
84 85.0 71.0 106.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#32

1,1,1-Trichloroethane

Concen: 17.556 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

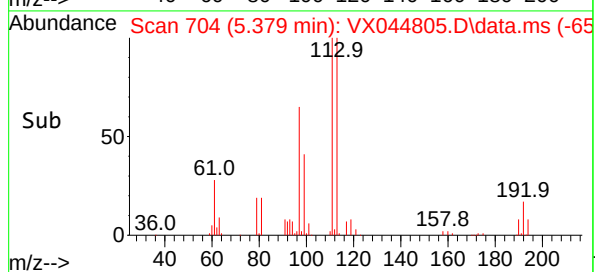
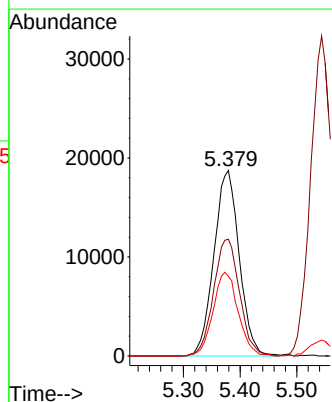
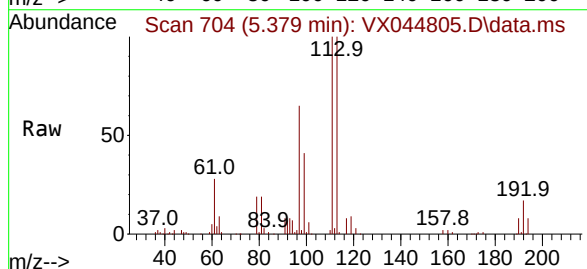
Tgt Ion: 97 Resp: 58095

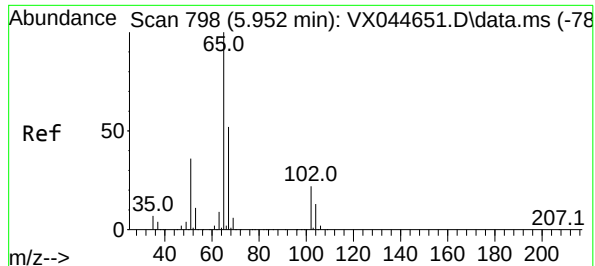
Ion Ratio Lower Upper

97 100

99 64.5 51.6 77.4

61 44.8 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 43.082 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 65 Resp: 9870

Ion Ratio Lower Upper

65 100

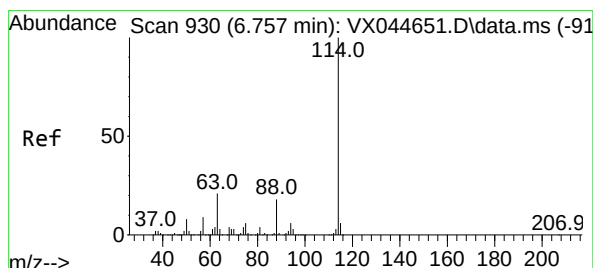
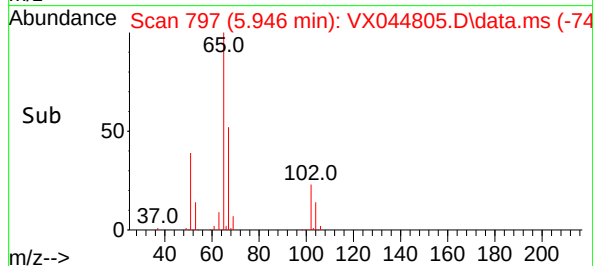
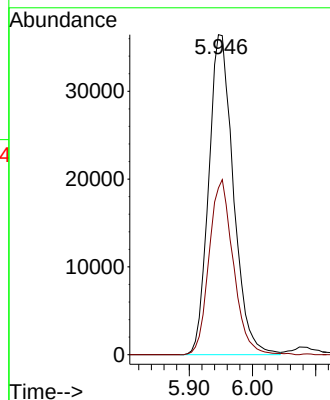
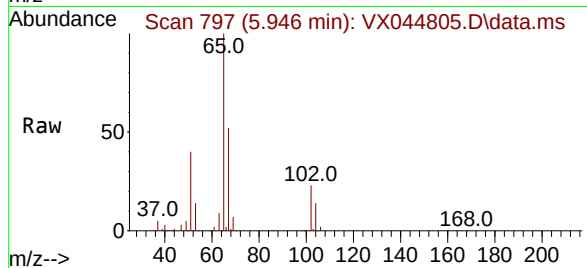
67 53.7 0.0 103.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

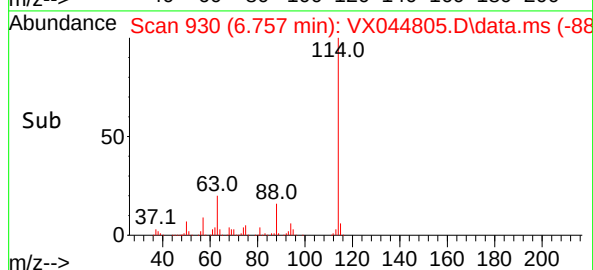
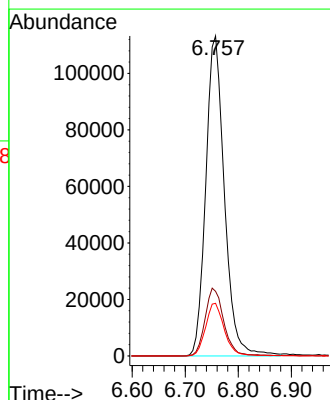
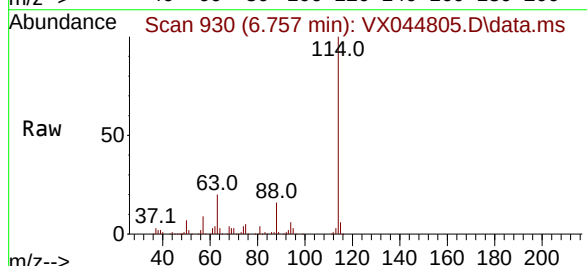
Tgt Ion:114 Resp: 276067

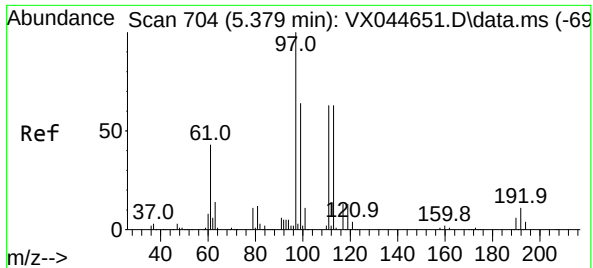
Ion Ratio Lower Upper

114 100

63 20.2 0.0 43.0

88 16.4 0.0 35.4





#35

Dibromofluoromethane

Concen: 46.545 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044805.D

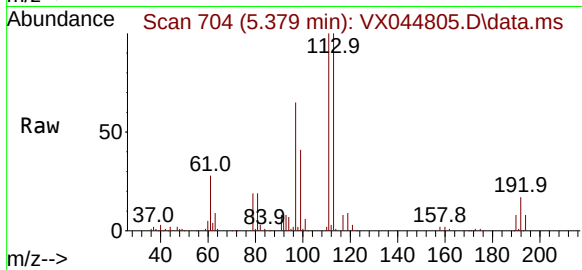
Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01



Tgt Ion: 113 Resp: 8163

Ion Ratio Lower Upper

113 100

111 104.4 81.6 122.4

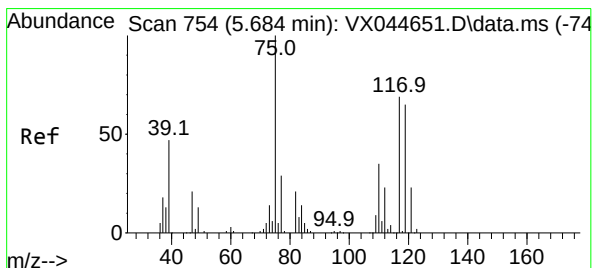
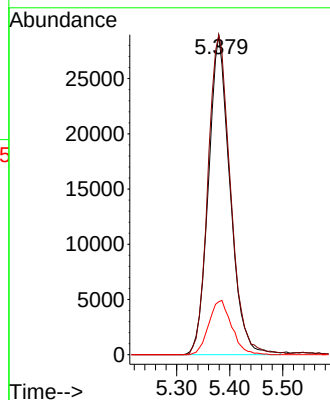
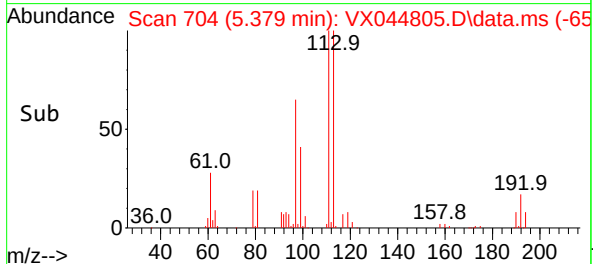
192 18.0 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#36

1,1-Dichloropropene

Concen: 19.329 ug/l

RT: 5.690 min Scan# 755

Delta R.T. 0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

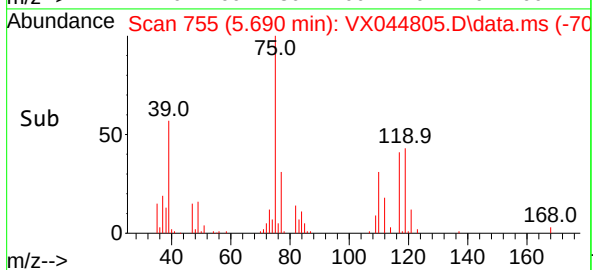
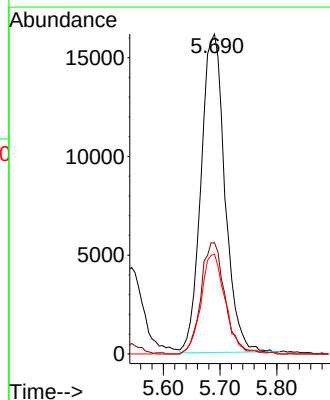
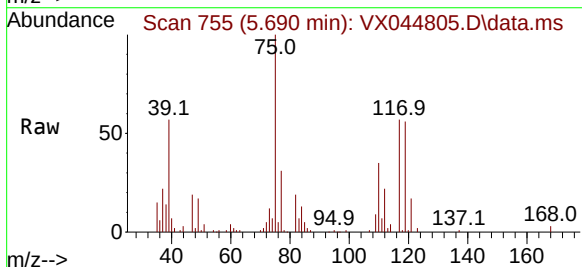
Tgt Ion: 75 Resp: 47190

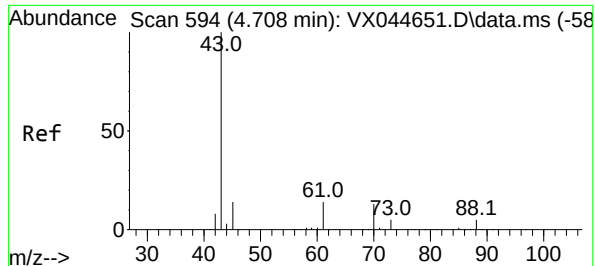
Ion Ratio Lower Upper

75 100

110 35.4 17.9 53.8

77 31.5 24.5 36.7





#37

Ethyl Acetate

Concen: 21.092 ug/l

RT: 4.715 min Scan# 594

Delta R.T. 0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

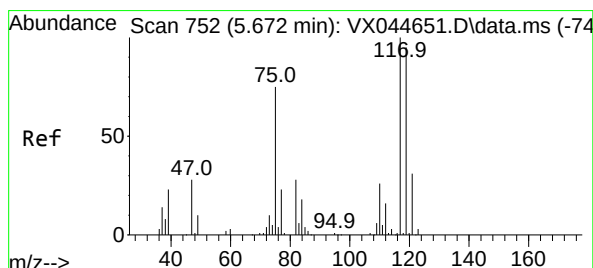
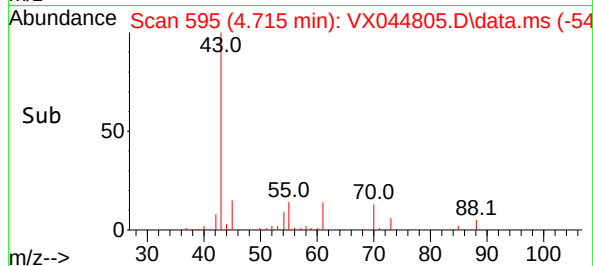
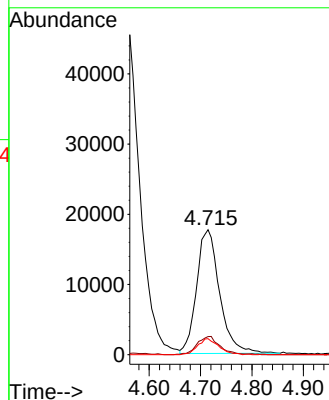
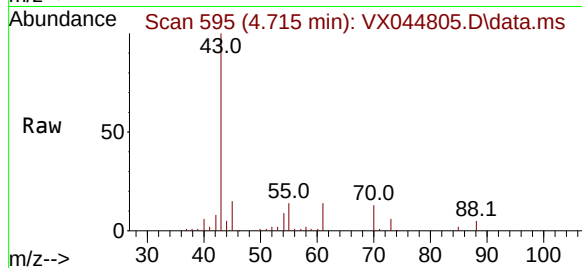
Tgt Ion:	43	Resp:	54830
Ion	Ratio	Lower	Upper
43	100		
61	14.4	10.9	16.3
70	11.8	10.1	15.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#38

Carbon Tetrachloride

Concen: 17.588 ug/l

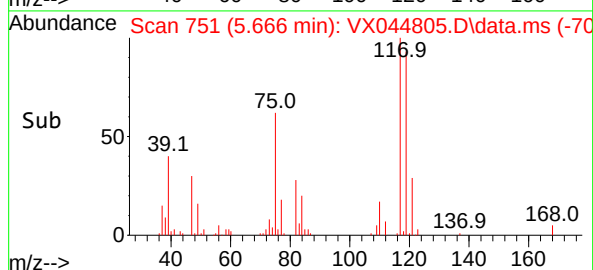
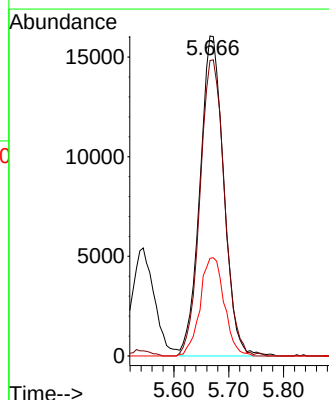
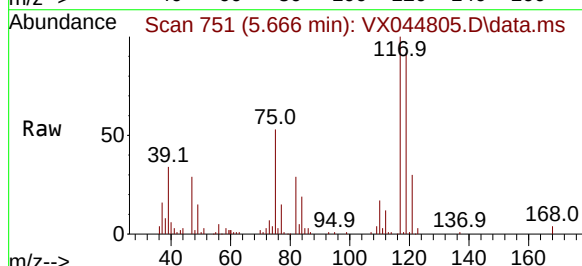
RT: 5.666 min Scan# 751

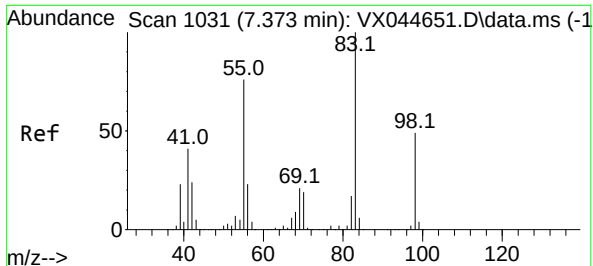
Delta R.T. -0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Tgt Ion:	117	Resp:	48299
Ion	Ratio	Lower	Upper
117	100		
119	92.3	76.0	114.0
121	30.5	24.6	36.8





#39

Methylcyclohexane

Concen: 20.367 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 83 Resp: 66000

Ion Ratio Lower Upper

83 100

55 75.6 60.5 90.7

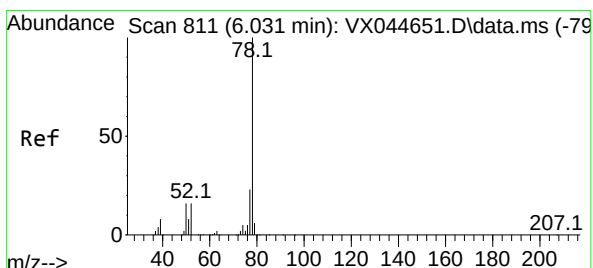
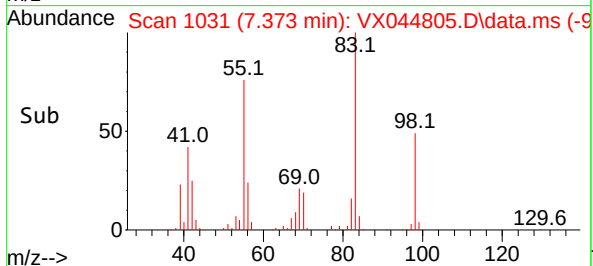
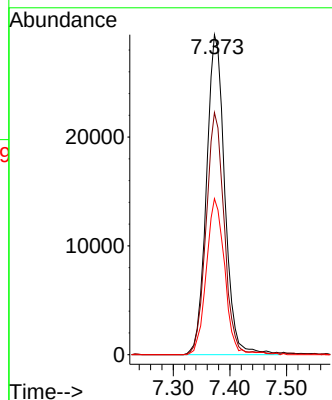
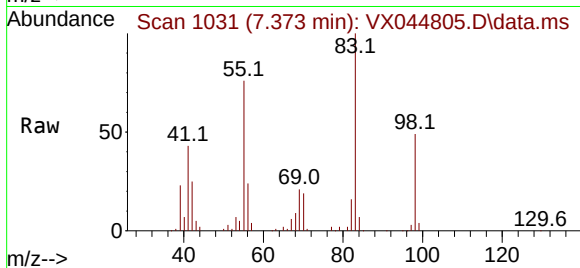
98 48.7 39.0 58.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#40

Benzene

Concen: 20.662 ug/l

RT: 6.032 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044805.D

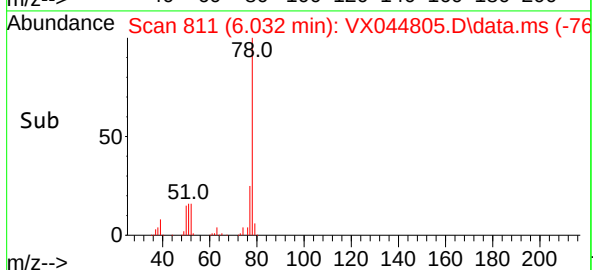
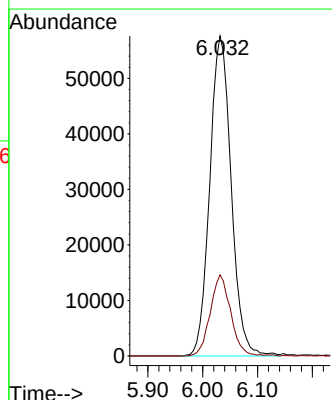
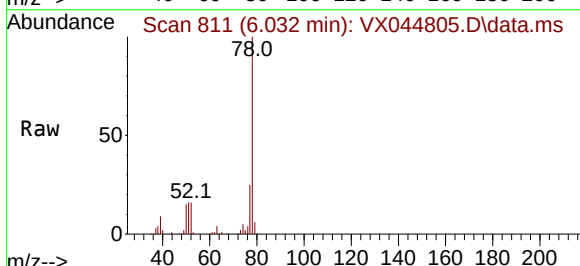
Acq: 03 Feb 2025 11:07

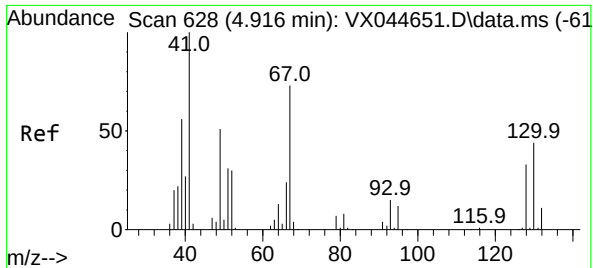
Tgt Ion: 78 Resp: 156314

Ion Ratio Lower Upper

78 100

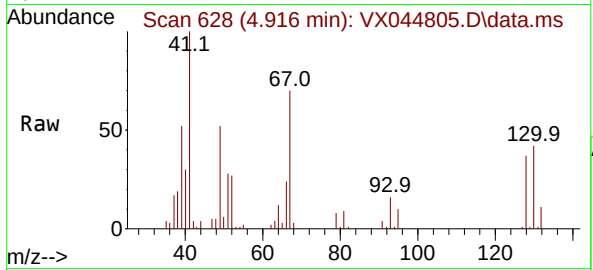
77 25.4 18.7 28.1





#41
Methacrylonitrile
Concen: 20.117 ug/l
RT: 4.916 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

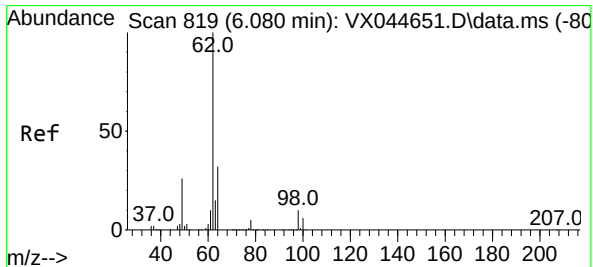
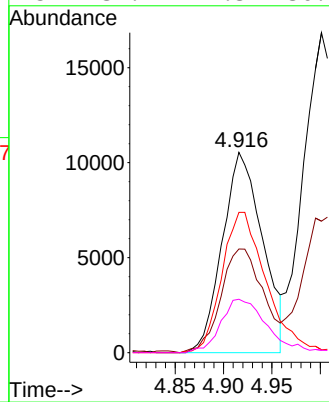
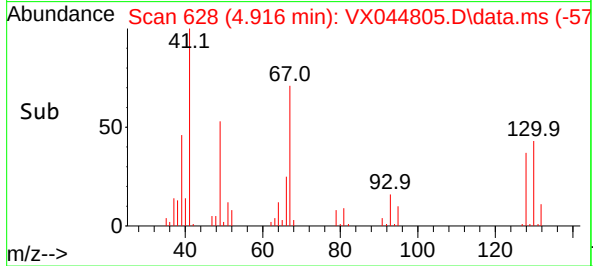
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion: 41 Resp: 3047
Ion Ratio Lower Upper
41 100
39 54.6 44.4 66.6
67 77.1 60.6 90.8
52 31.2 24.3 36.5

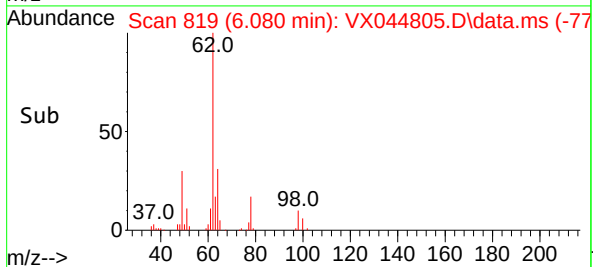
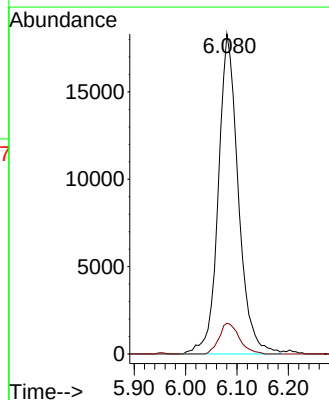
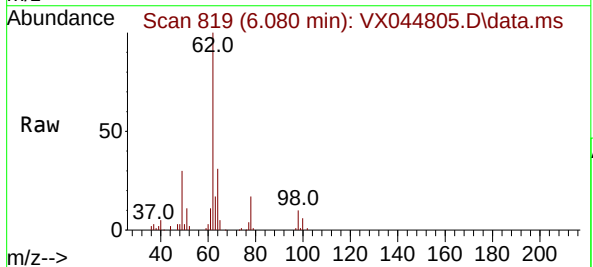
Manual Integrations
APPROVED

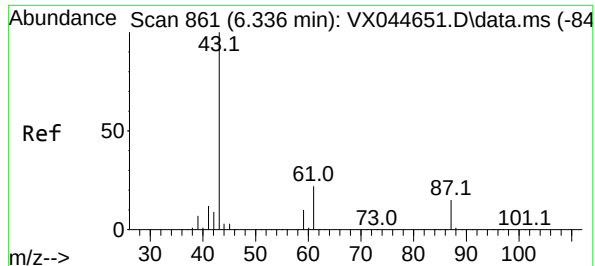
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#42
1,2-Dichloroethane
Concen: 17.973 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Tgt Ion: 62 Resp: 49626
Ion Ratio Lower Upper
62 100
98 9.7 0.0 19.4





#43

Isopropyl Acetate

Concen: 19.379 ug/l

RT: 6.336 min Scan# 80

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 43 Resp: 9268

Ion Ratio Lower Upper

43 100

61 21.3 16.6 24.8

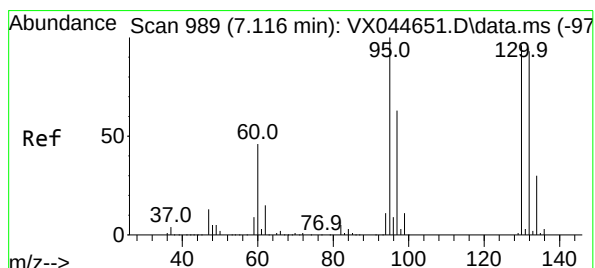
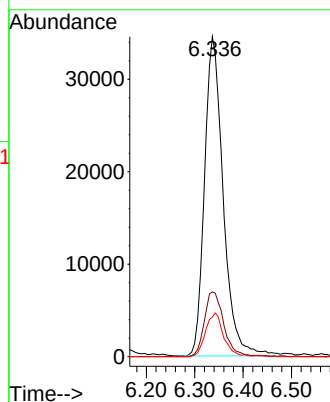
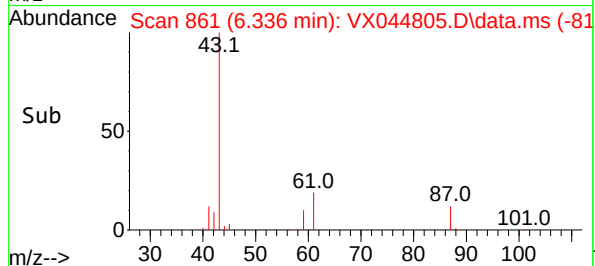
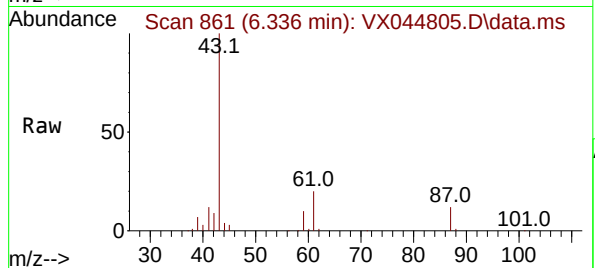
87 13.2 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#44

Trichloroethene

Concen: 19.359 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.006 min

Lab File: VX044805.D

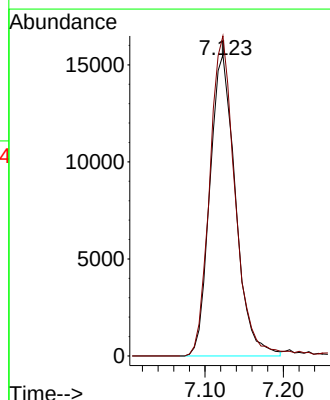
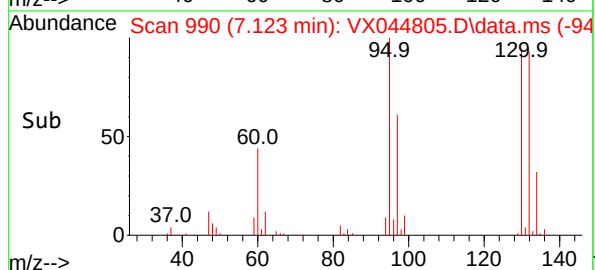
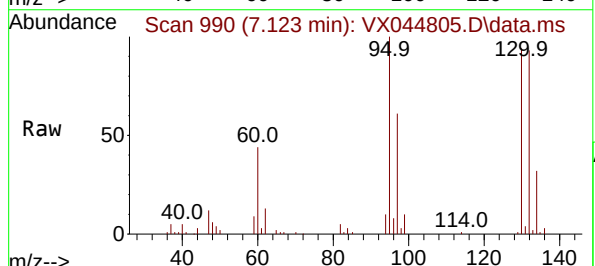
Acq: 03 Feb 2025 11:07

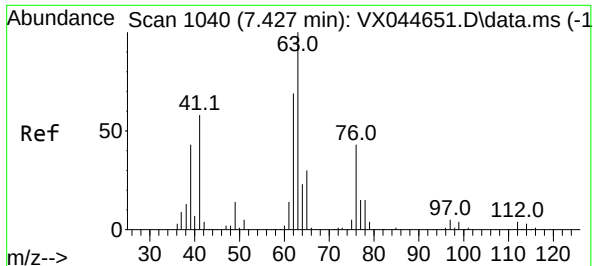
Tgt Ion:130 Resp: 35209

Ion Ratio Lower Upper

130 100

95 106.3 0.0 208.2





#45

1,2-Dichloropropane

Concen: 21.146 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 63 Resp: 4026

Ion Ratio Lower Upper

63 100

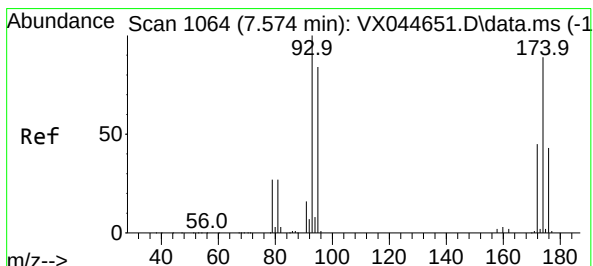
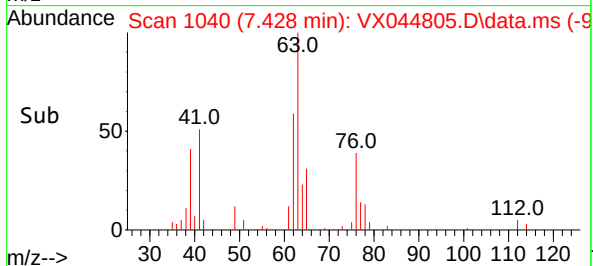
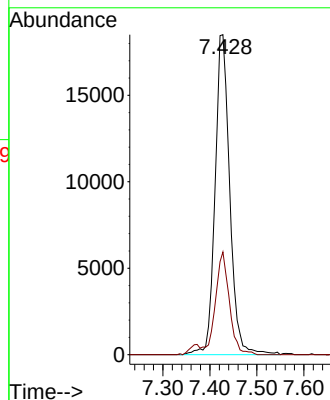
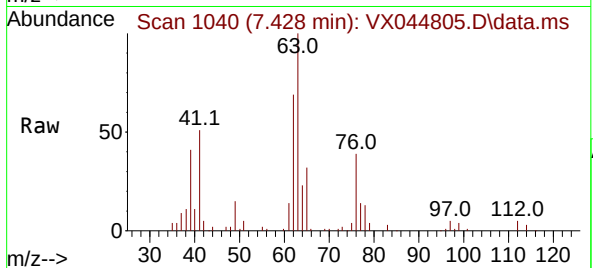
65 32.1 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#46

Dibromomethane

Concen: 18.896 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

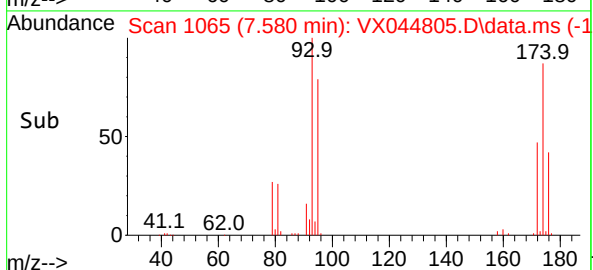
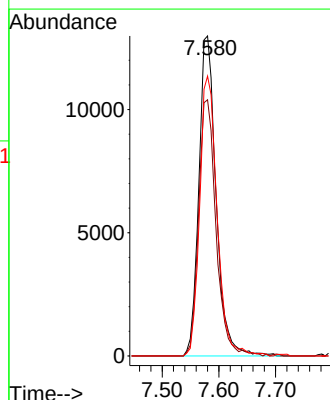
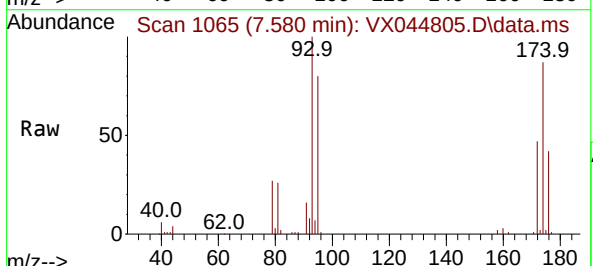
Tgt Ion: 93 Resp: 27392

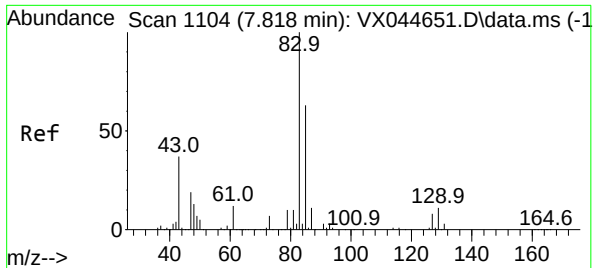
Ion Ratio Lower Upper

93 100

95 81.1 66.4 99.6

174 88.6 72.0 108.0





#47

Bromodichloromethane

Concen: 18.112 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 83 Resp: 5384

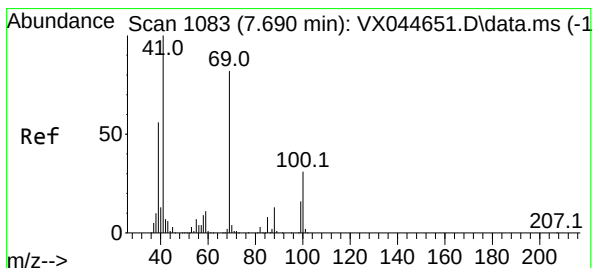
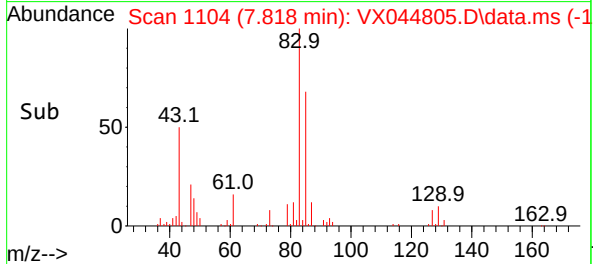
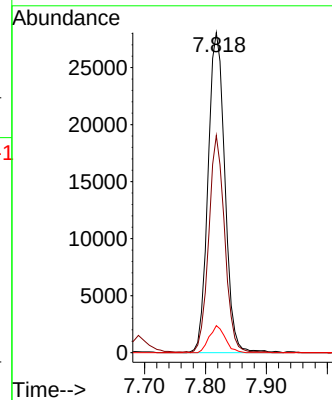
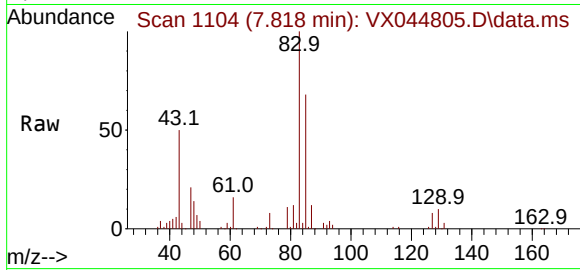
Ion	Ratio	Lower	Upper
83	100		
85	67.8	50.1	75.1
127	8.5	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#48

Methyl methacrylate

Concen: 19.857 ug/l

RT: 7.690 min Scan# 1083

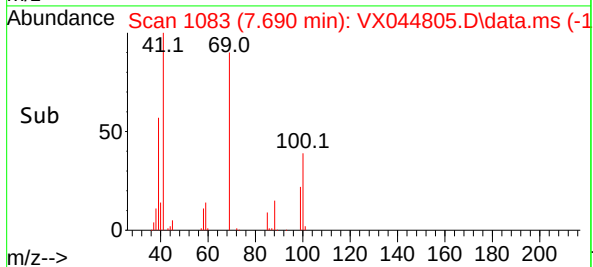
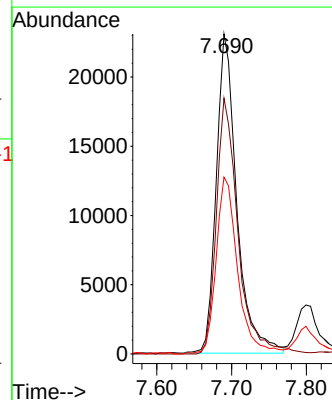
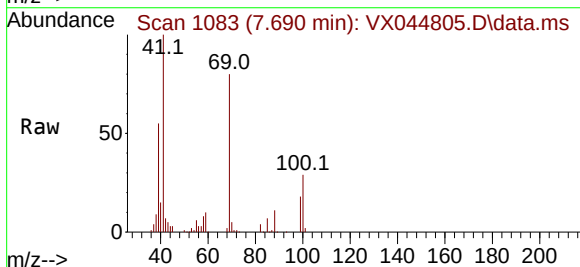
Delta R.T. 0.000 min

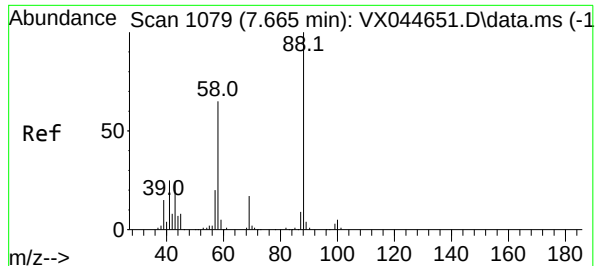
Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Tgt Ion: 41 Resp: 44083

Ion	Ratio	Lower	Upper
41	100		
69	84.4	66.8	100.2
39	58.0	47.4	71.0





#49

1,4-Dioxane

Concen: 417.265 ug/l

RT: 7.659 min Scan# 1079

Delta R.T. -0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 88 Resp: 1932

Ion Ratio Lower Upper

88 100

43 32.5 27.0 40.4

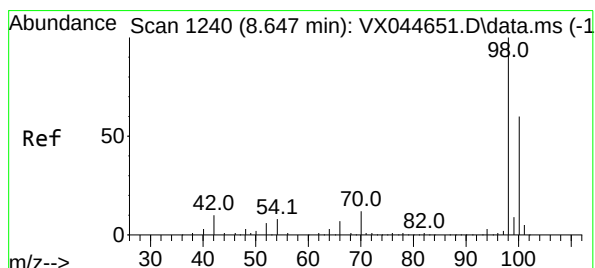
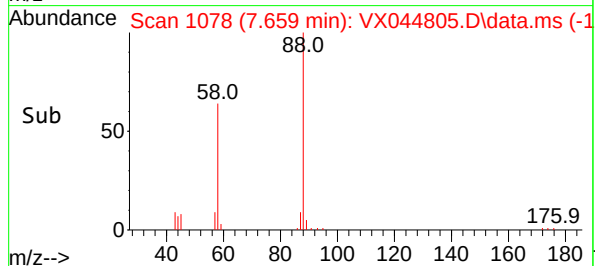
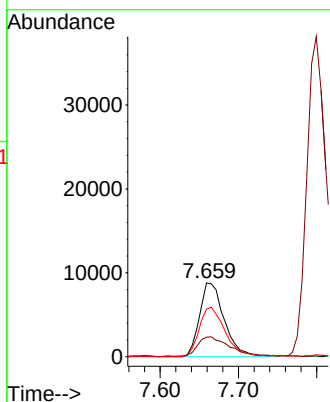
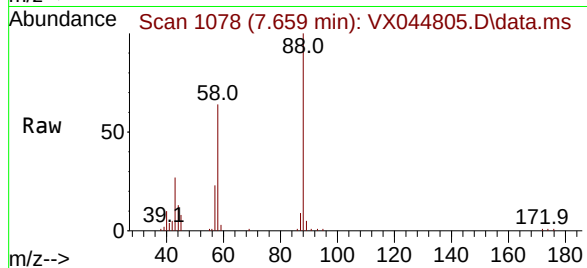
58 69.9 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#50

Toluene-d8

Concen: 50.228 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX044805.D

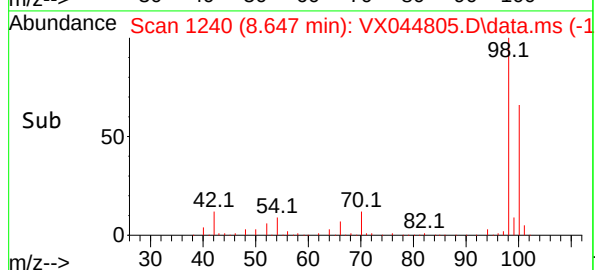
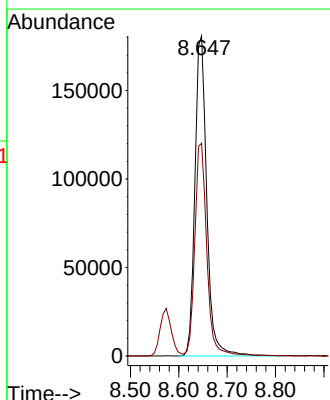
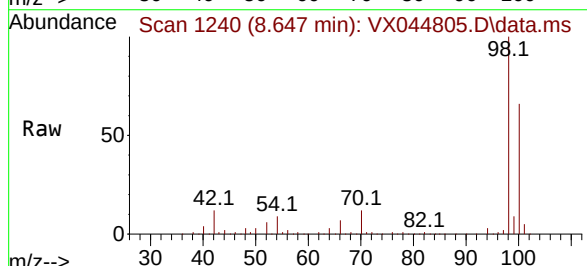
Acq: 03 Feb 2025 11:07

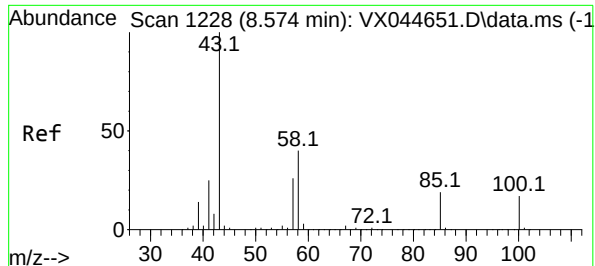
Tgt Ion: 98 Resp: 307152

Ion Ratio Lower Upper

98 100

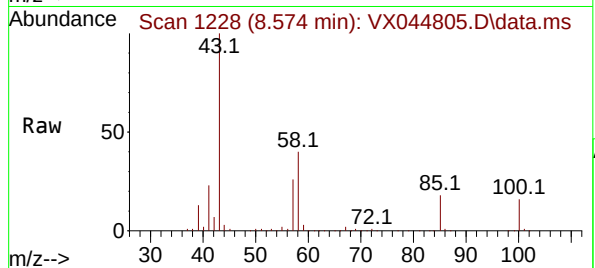
100 67.3 53.2 79.8





#51
4-Methyl-2-Pentanone
Concen: 110.081 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

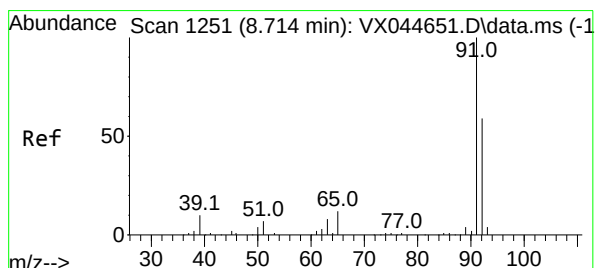
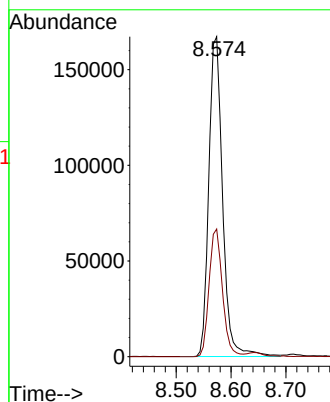
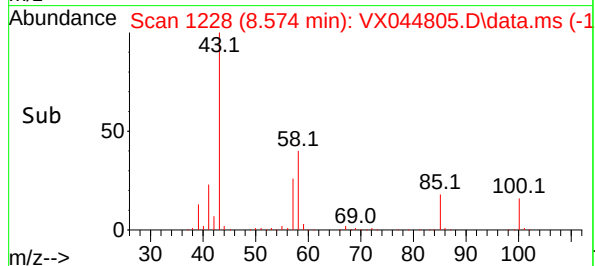
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion: 43 Resp: 29095
Ion Ratio Lower Upper
43 100
58 38.8 31.9 47.9

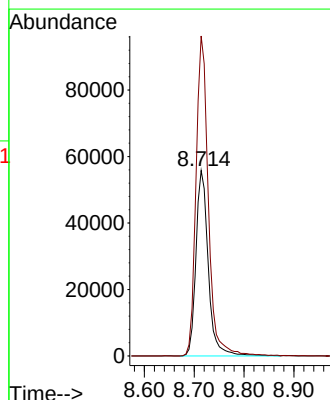
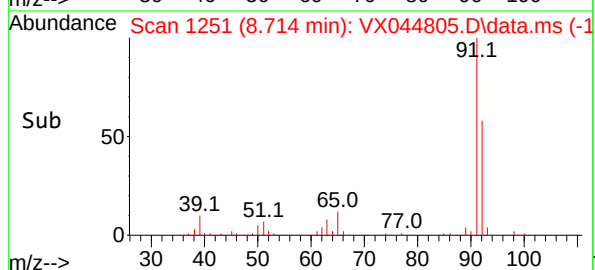
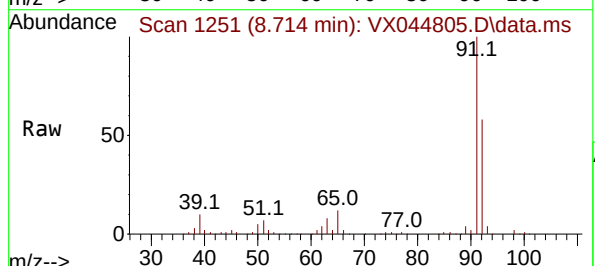
Manual Integrations
APPROVED

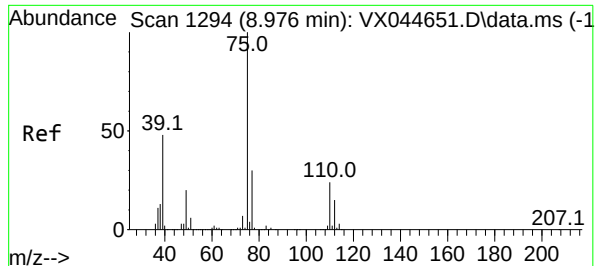
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#52
Toluene
Concen: 20.694 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Tgt Ion: 92 Resp: 95820
Ion Ratio Lower Upper
92 100
91 172.6 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 18.462 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 75 Resp: 5670

Ion Ratio Lower Upper

75 100

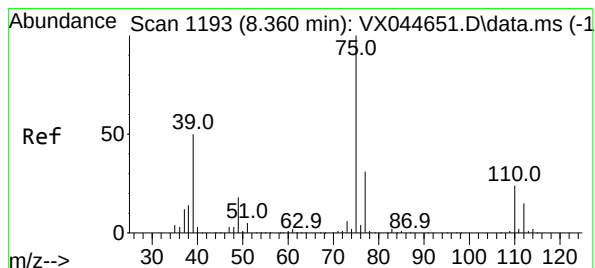
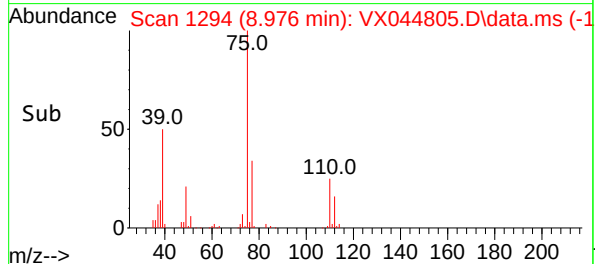
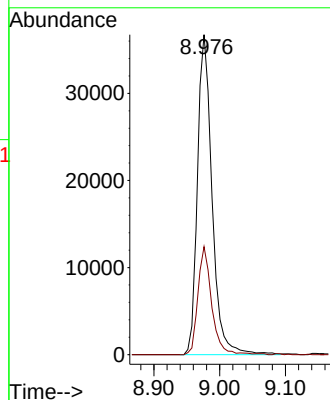
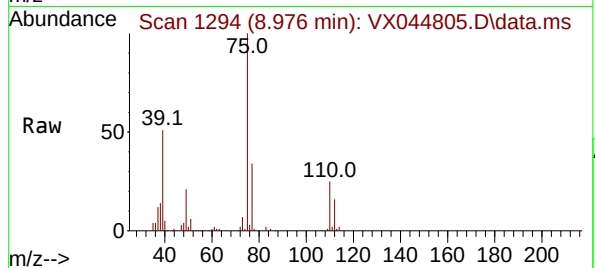
77 33.8 24.4 36.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#54

cis-1,3-Dichloropropene

Concen: 18.636 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

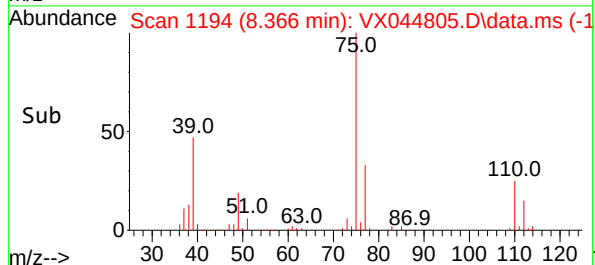
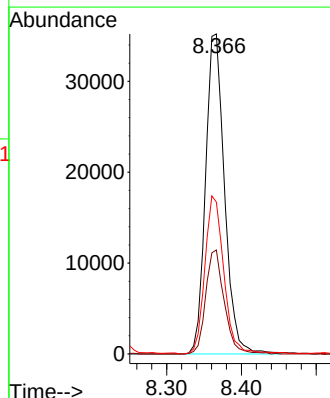
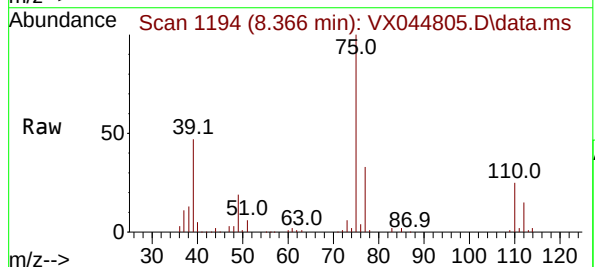
Tgt Ion: 75 Resp: 62067

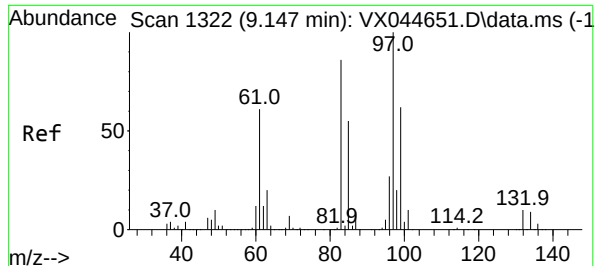
Ion Ratio Lower Upper

75 100

77 32.5 25.1 37.7

39 47.5 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 20.308 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 97 Resp: 3804

Ion Ratio Lower Upper

97 100

83 89.1 68.8 103.2

85 58.4 43.7 65.5

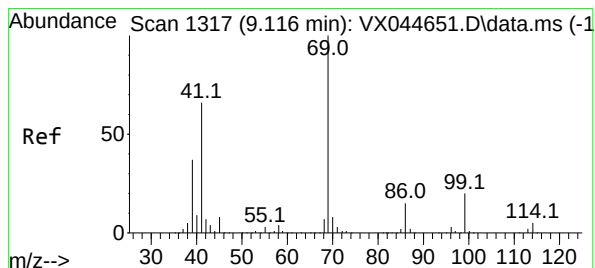
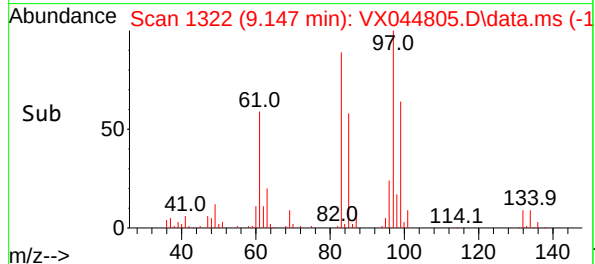
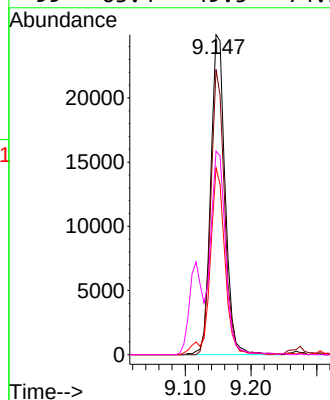
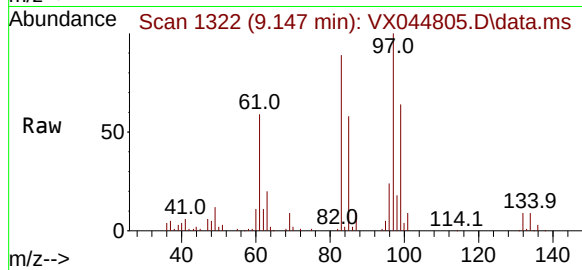
99 63.4 49.5 74.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#56

Ethyl methacrylate

Concen: 19.933 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

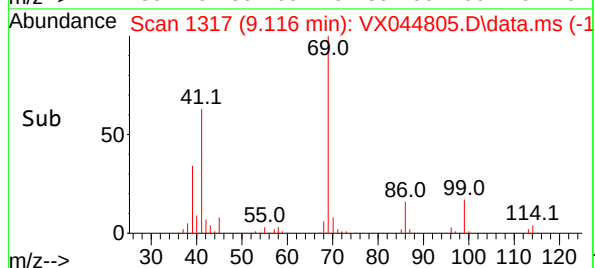
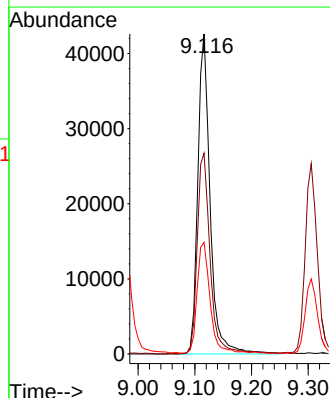
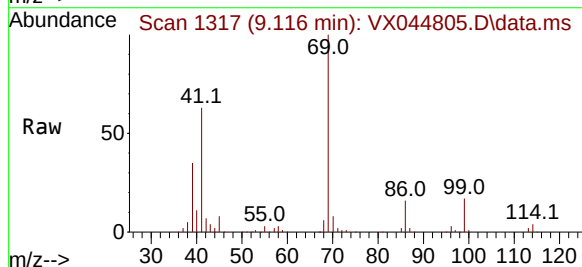
Tgt Ion: 69 Resp: 64208

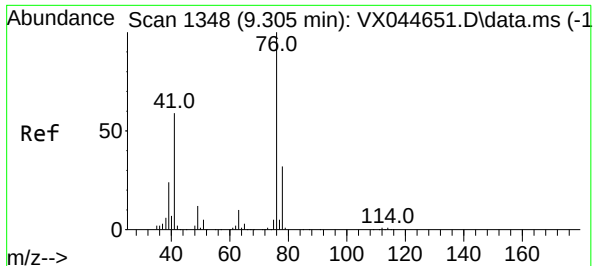
Ion Ratio Lower Upper

69 100

41 66.4 53.2 79.8

39 36.1 30.2 45.2





#57

1,3-Dichloropropane

Concen: 20.262 ug/l

RT: 9.305 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 76 Resp: 64638

Ion Ratio Lower Upper

76 100

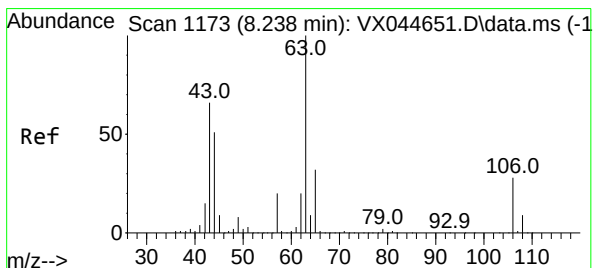
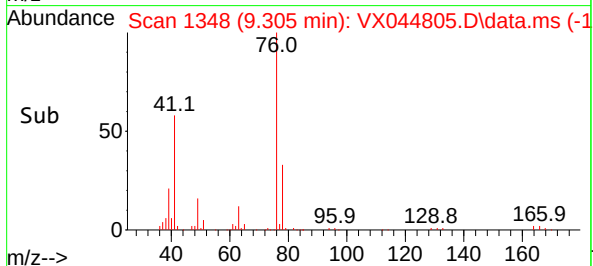
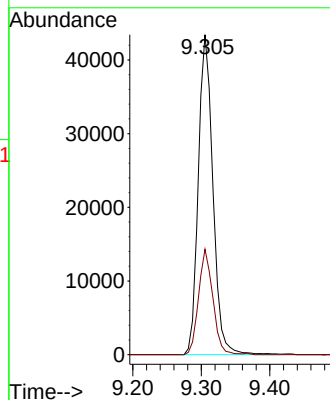
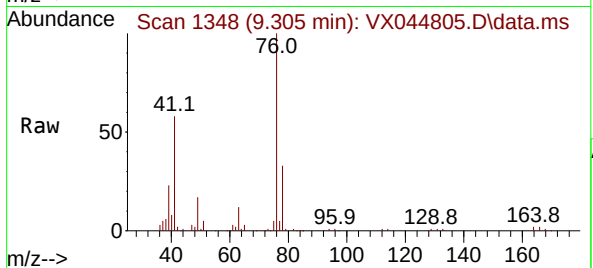
78 32.4 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#58

2-Chloroethyl Vinyl ether

Concen: 87.947 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044805.D

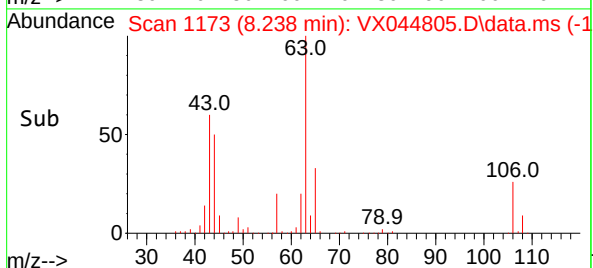
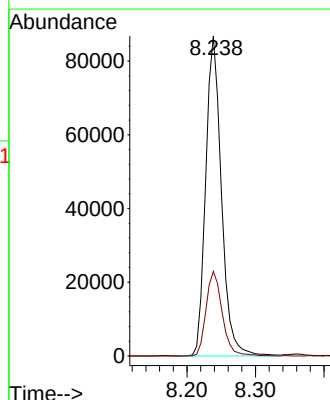
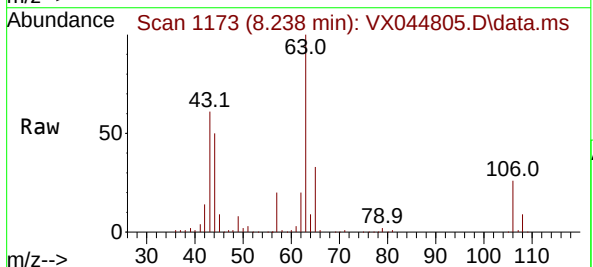
Acq: 03 Feb 2025 11:07

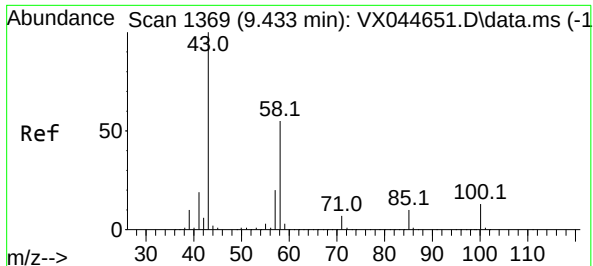
Tgt Ion: 63 Resp: 139078

Ion Ratio Lower Upper

63 100

106 27.0 23.0 34.6





#59

2-Hexanone

Concen: 109.737 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 43 Resp: 21338

Ion Ratio Lower Upper

43 100

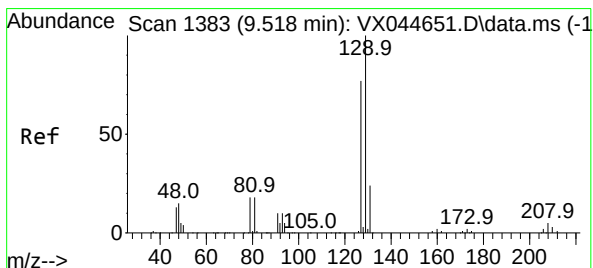
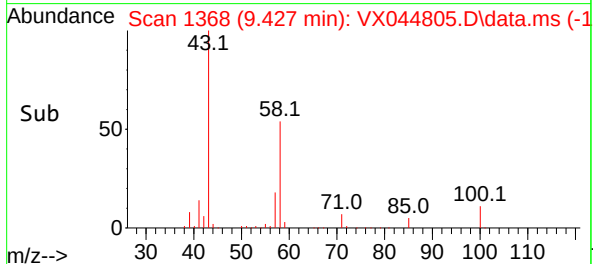
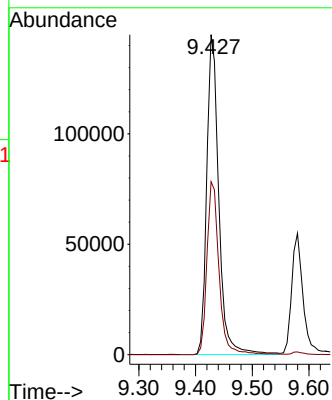
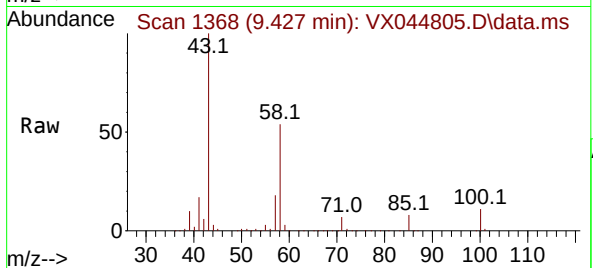
58 54.4 27.8 83.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#60

Dibromochloromethane

Concen: 18.458 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX044805.D

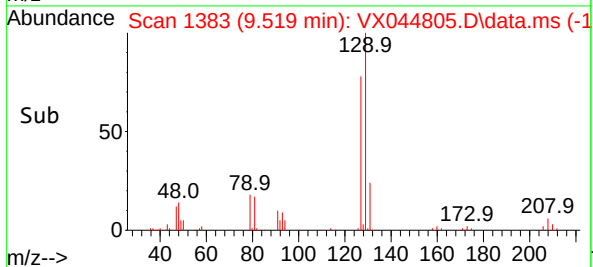
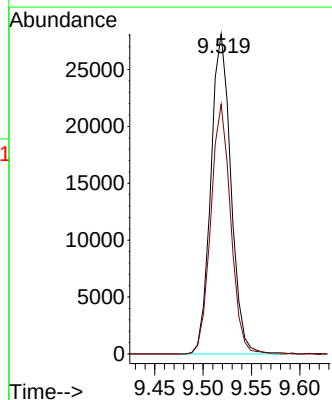
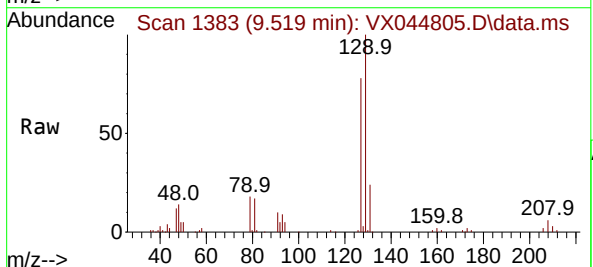
Acq: 03 Feb 2025 11:07

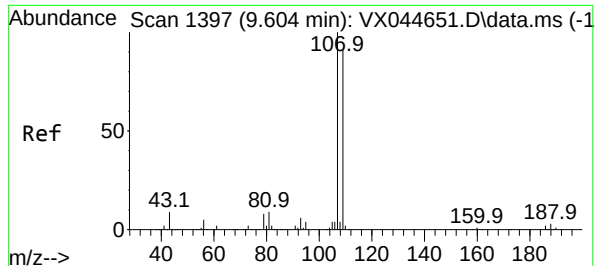
Tgt Ion:129 Resp: 40586

Ion Ratio Lower Upper

129 100

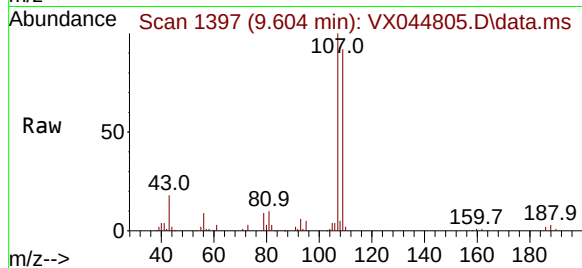
127 77.5 38.5 115.5





#61
1,2-Dibromoethane
Concen: 19.323 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

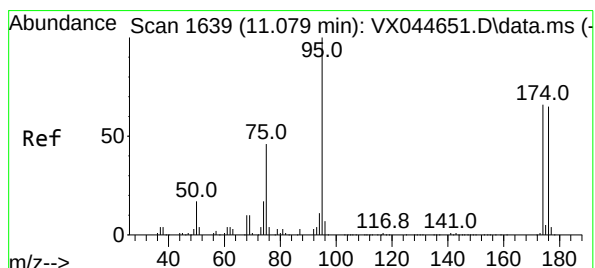
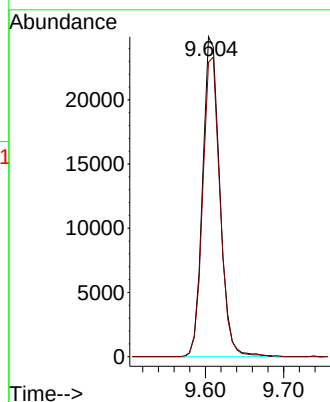
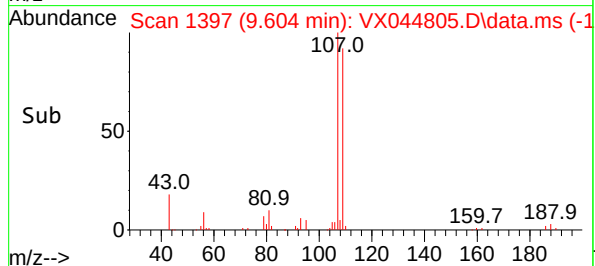
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion:107 Resp: 37930
Ion Ratio Lower Upper
107 100
109 94.4 75.3 112.9

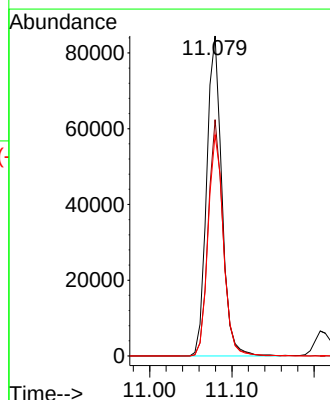
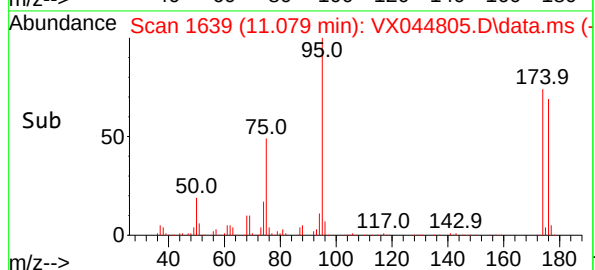
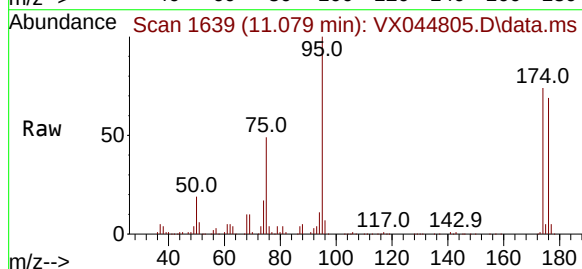
Manual Integrations
APPROVED

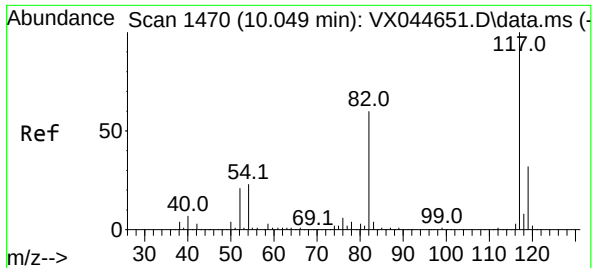
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#62
4-Bromofluorobenzene
Concen: 47.458 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

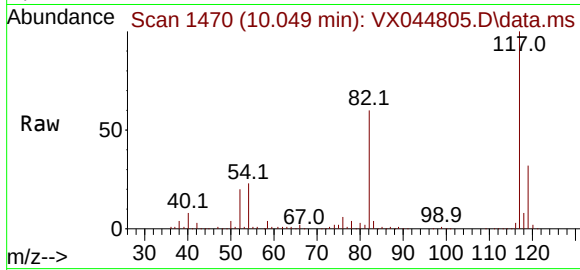
Tgt Ion: 95 Resp: 108190
Ion Ratio Lower Upper
95 100
174 72.2 0.0 133.0
176 70.0 0.0 129.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

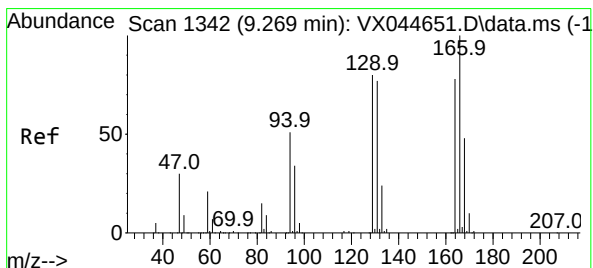
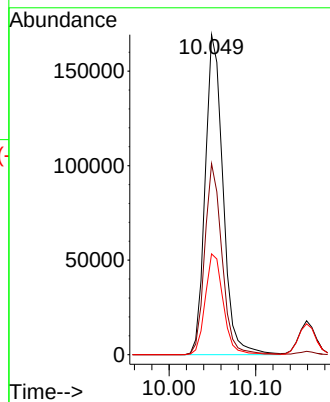
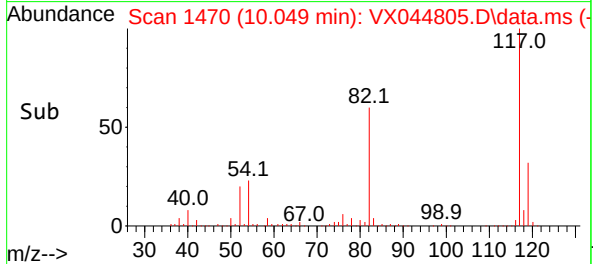
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion:117 Resp: 242310
Ion Ratio Lower Upper
117 100
82 59.7 47.6 71.4
119 31.5 25.4 38.2

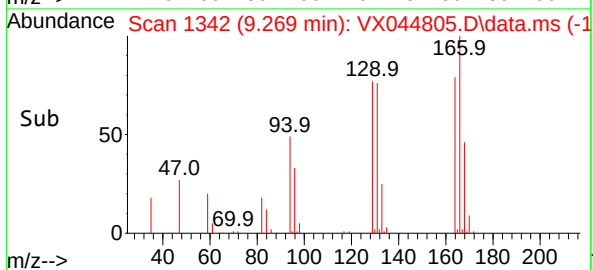
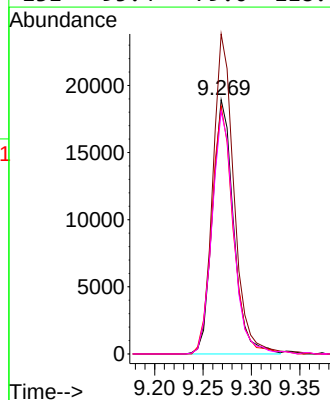
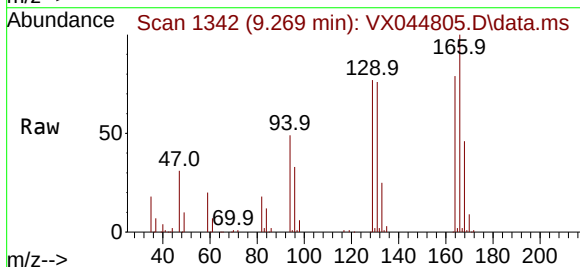
Manual Integrations
APPROVED

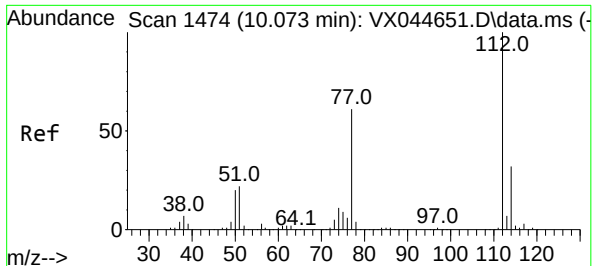
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#64
Tetrachloroethene
Concen: 18.860 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

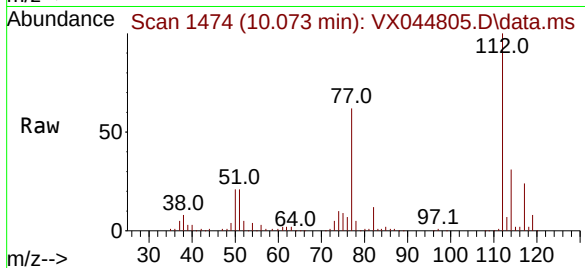
Tgt Ion:164 Resp: 28697
Ion Ratio Lower Upper
164 100
166 125.9 102.0 153.0
129 97.4 81.1 121.7
131 95.4 79.0 118.6





#65
Chlorobenzene
Concen: 19.934 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

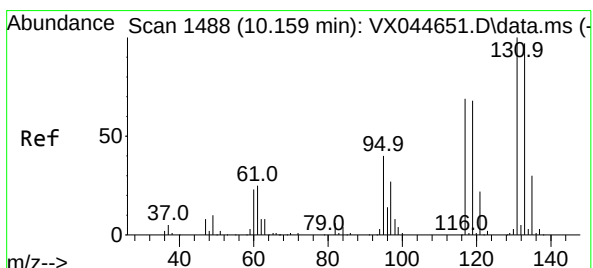
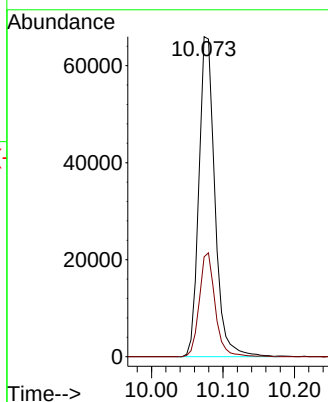
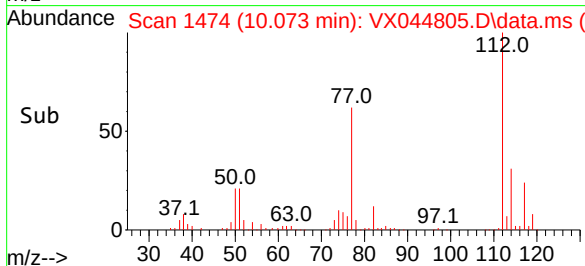
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



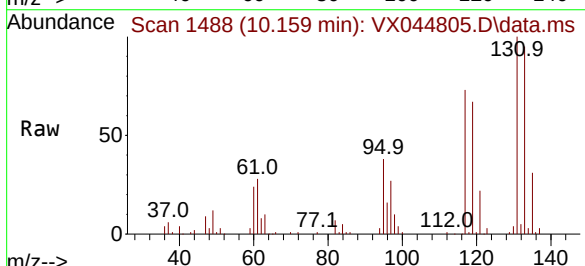
Tgt Ion:112 Resp: 102598
Ion Ratio Lower Upper
112 100
114 31.2 25.3 37.9

Manual Integrations
APPROVED

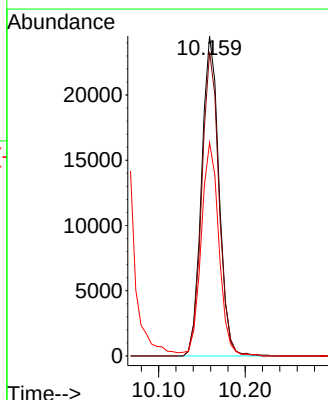
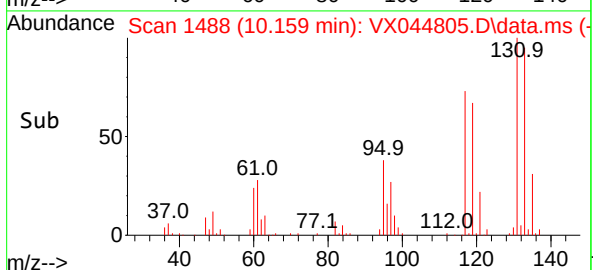
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

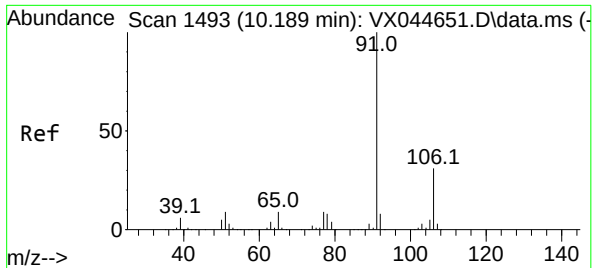


#66
1,1,1,2-Tetrachloroethane
Concen: 18.248 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07



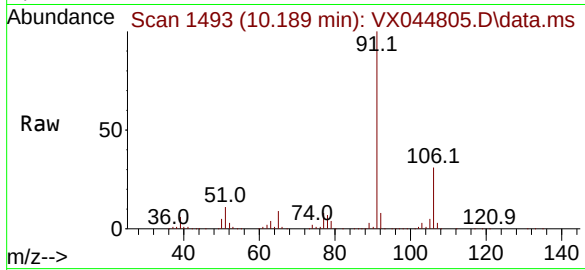
Tgt Ion:131 Resp: 34132
Ion Ratio Lower Upper
131 100
133 94.3 47.8 143.3
119 68.1 33.4 100.2





#67
Ethyl Benzene
Concen: 20.045 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

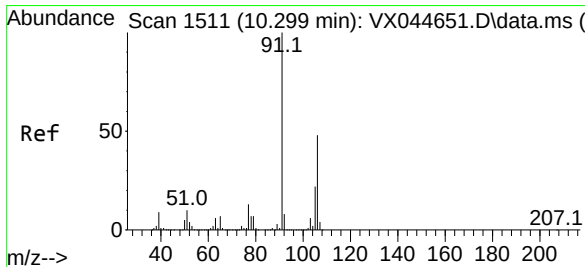
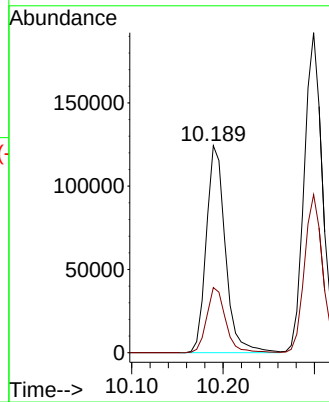
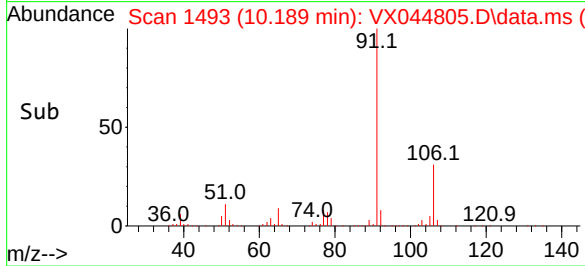
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



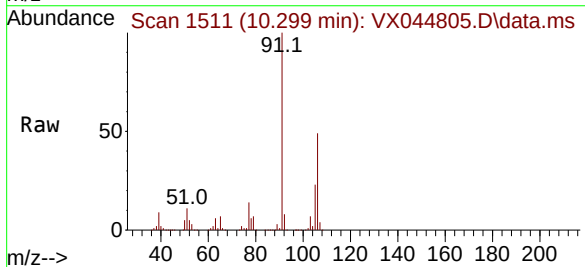
Tgt Ion: 91 Resp: 180000
Ion Ratio Lower Upper
91 100
106 31.5 25.0 37.6

Manual Integrations
APPROVED

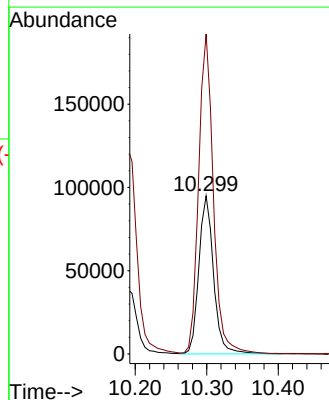
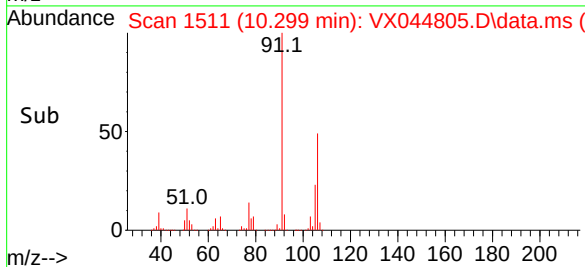
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

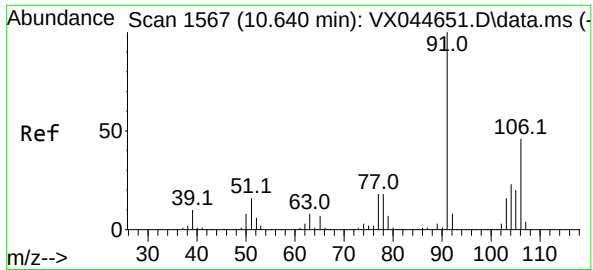


#68
m/p-Xylenes
Concen: 40.657 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07



Tgt Ion:106 Resp: 135490
Ion Ratio Lower Upper
106 100
91 202.4 166.4 249.6





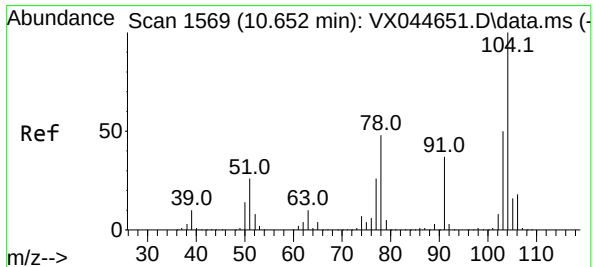
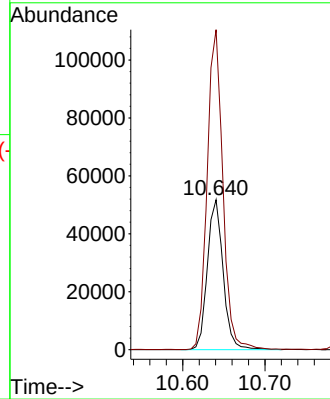
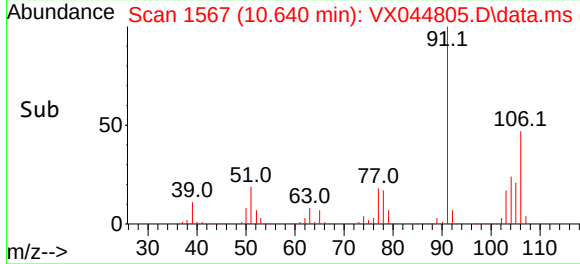
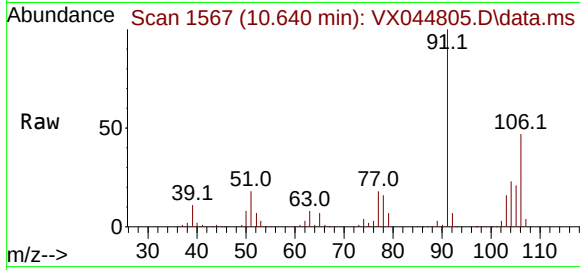
#69
o-Xylene
Concen: 20.480 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01

Tgt Ion:106 Resp: 6902
Ion Ratio Lower Upper
106 100
91 211.9 108.7 326.3

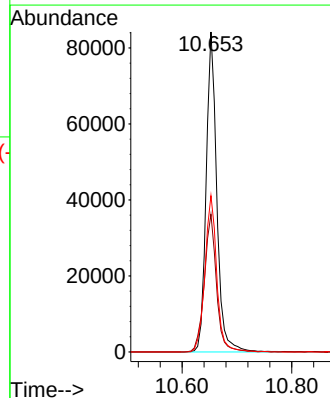
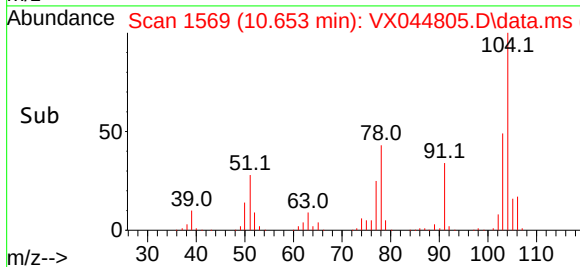
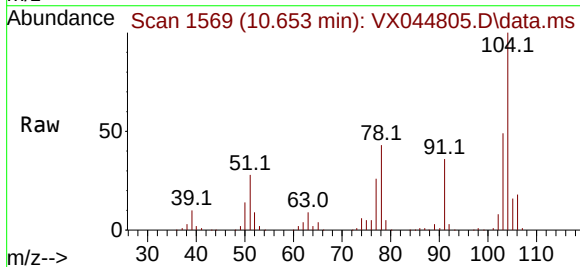
Manual Integrations
APPROVED

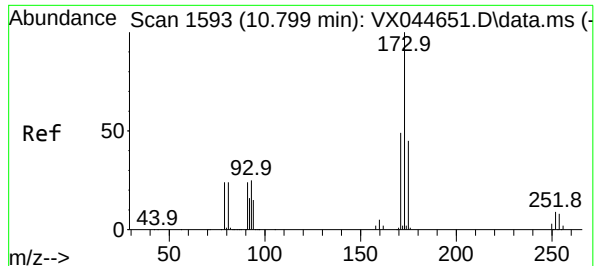
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#70
Styrene
Concen: 20.831 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

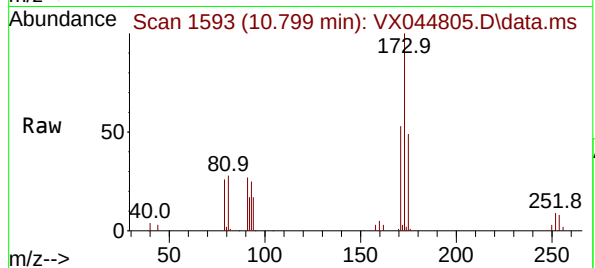
Tgt Ion:104 Resp: 113346
Ion Ratio Lower Upper
104 100
78 49.2 43.0 64.6
103 54.4 43.4 65.2





#71
Bromoform
Concen: 17.255 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

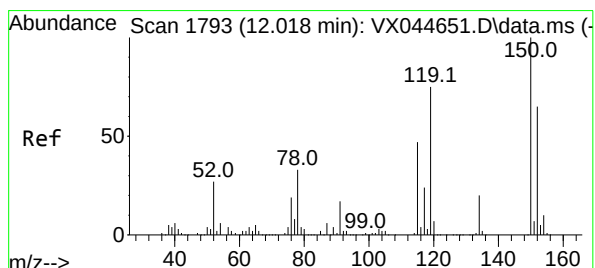
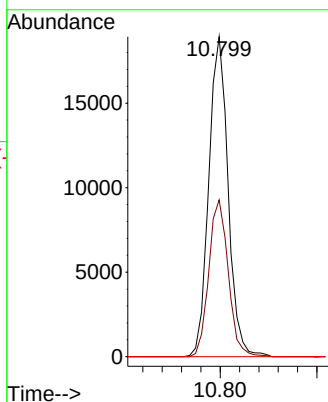
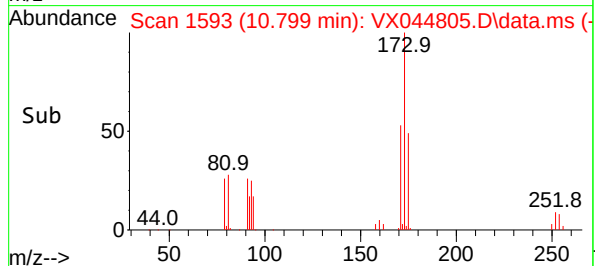
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion:173 Resp: 26269
Ion Ratio Lower Upper
173 100
175 49.4 23.6 70.8
254 0.0 0.1 0.1

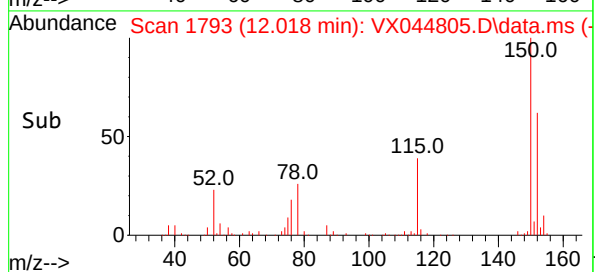
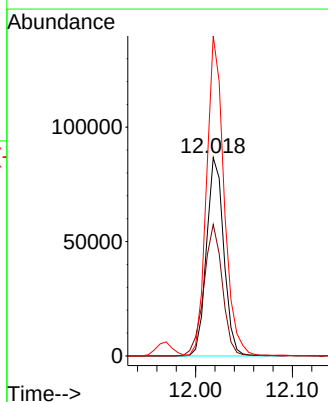
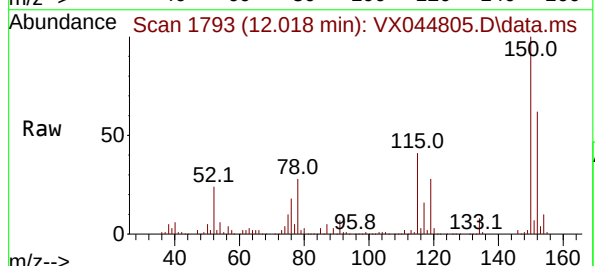
Manual Integrations
APPROVED

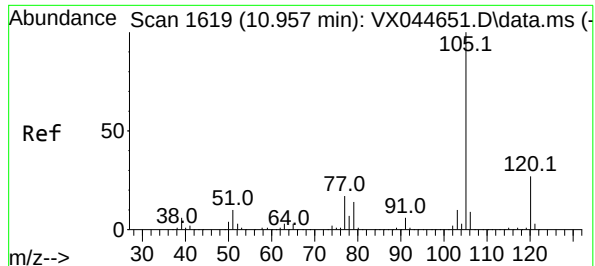
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Tgt Ion:152 Resp: 107943
Ion Ratio Lower Upper
152 100
115 71.0 43.8 131.4
150 163.8 0.0 347.8





#73

Isopropylbenzene

Concen: 19.601 ug/l

RT: 10.957 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion:105 Resp: 17284

Ion Ratio Lower Upper

105 100

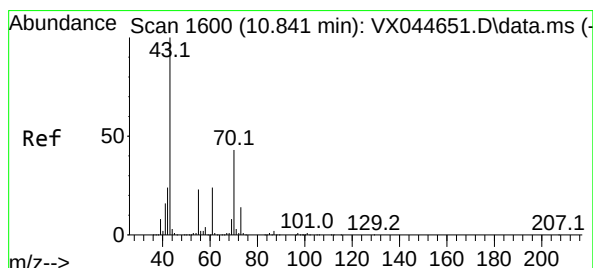
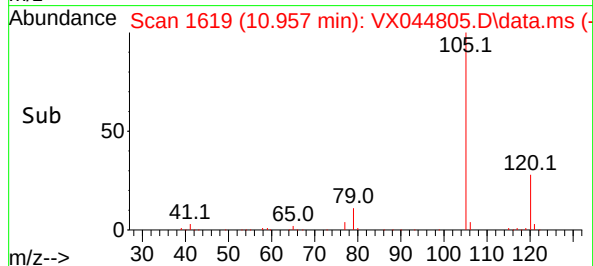
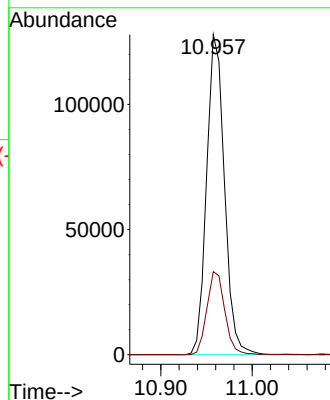
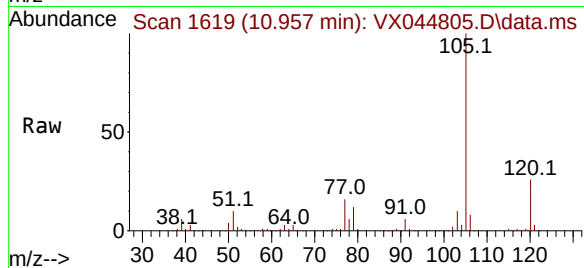
120 26.1 13.2 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#74

N-ethyl acetate

Concen: 18.628 ug/l

RT: 10.842 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Tgt Ion: 43 Resp: 80964

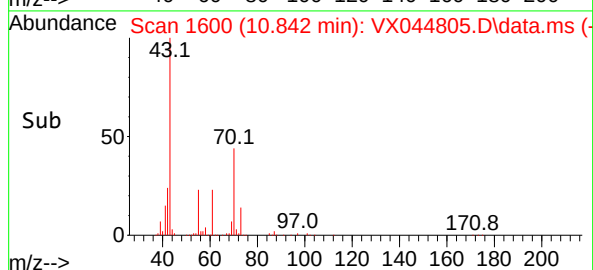
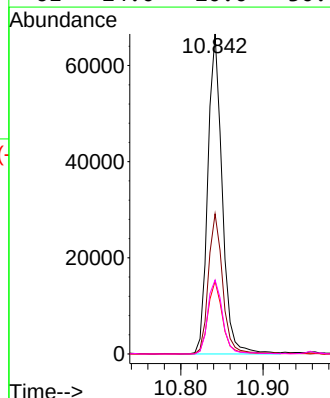
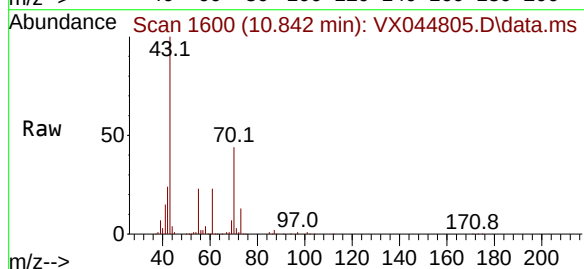
Ion Ratio Lower Upper

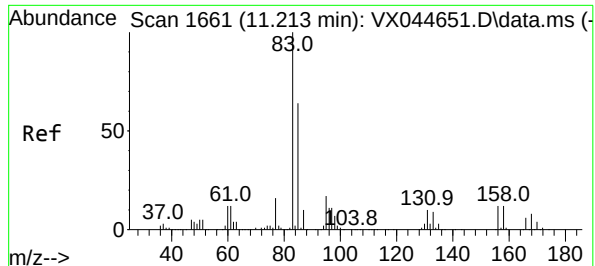
43 100

70 43.6 35.2 52.8

55 23.2 19.0 28.4

61 24.0 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 19.661 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 83 Resp: 59880

Ion Ratio Lower Upper

83 100

131 9.4 5.0 14.9

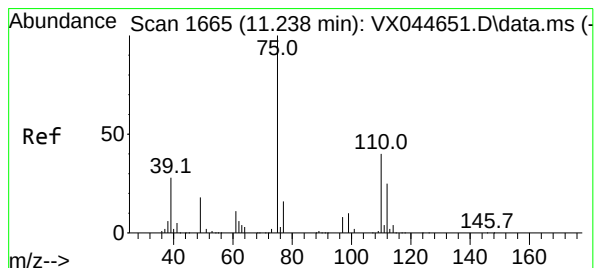
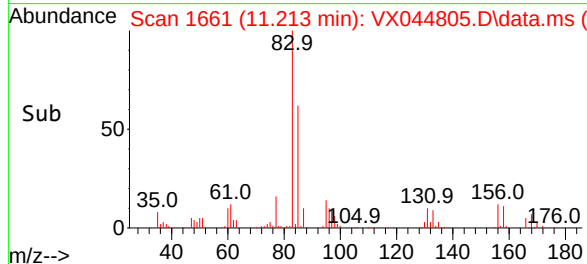
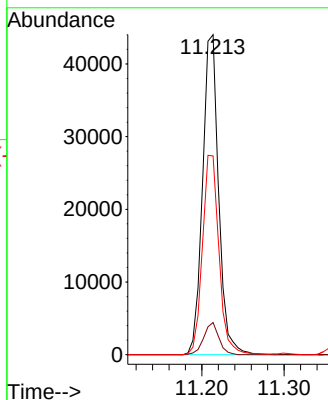
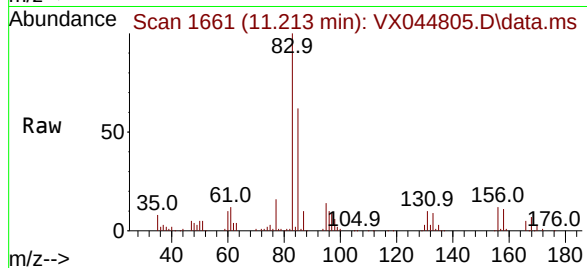
85 64.0 32.0 96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#76

1,2,3-Trichloropropane

Concen: 18.208 ug/l m

RT: 11.238 min Scan# 1665

Delta R.T. 0.000 min

Lab File: VX044805.D

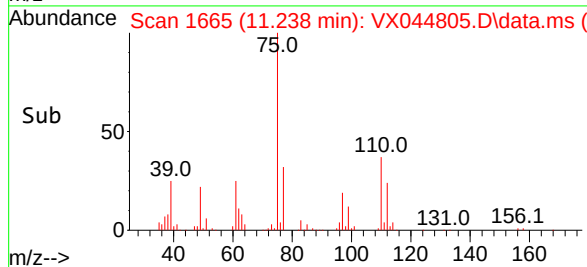
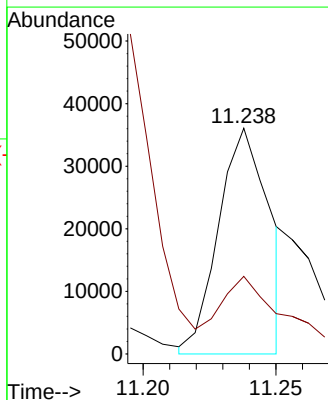
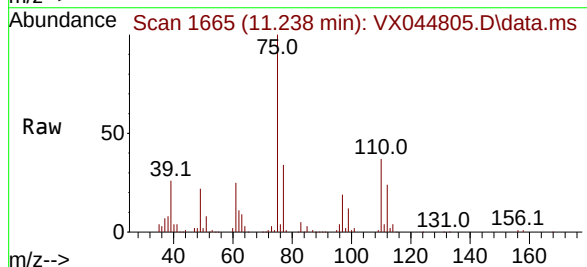
Acq: 03 Feb 2025 11:07

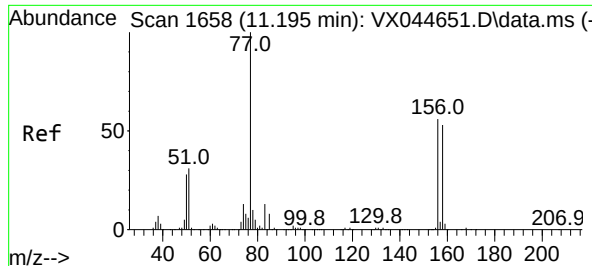
Tgt Ion: 75 Resp: 47698

Ion Ratio Lower Upper

75 100

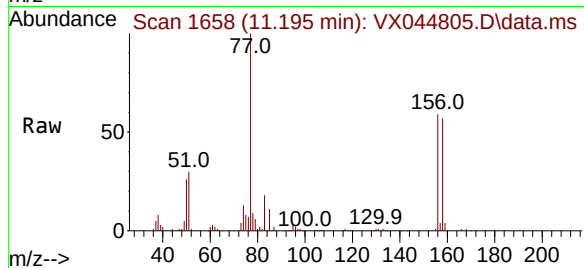
77 44.2 23.4 70.2





#77
Bromobenzene
Concen: 19.069 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

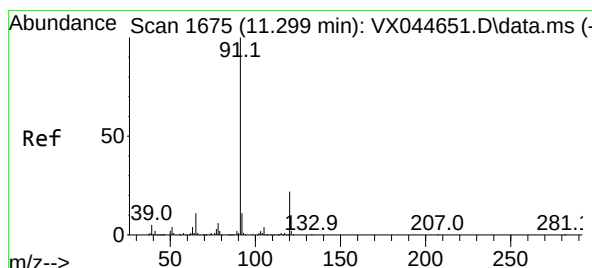
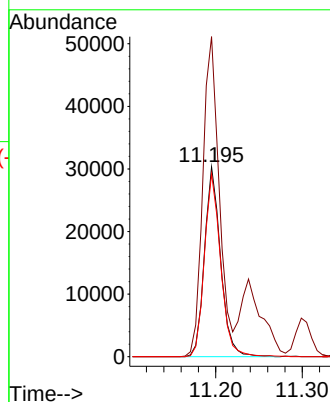
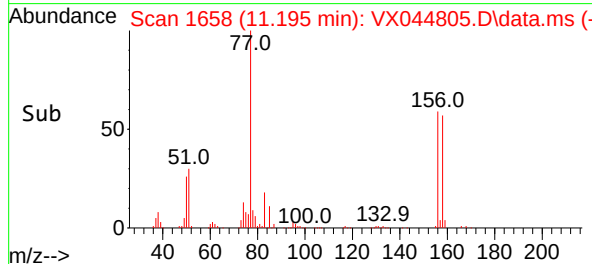
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion: 156 Resp: 39304
Ion Ratio Lower Upper
156 100
77 171.0 90.3 271.0
158 97.0 48.4 145.3

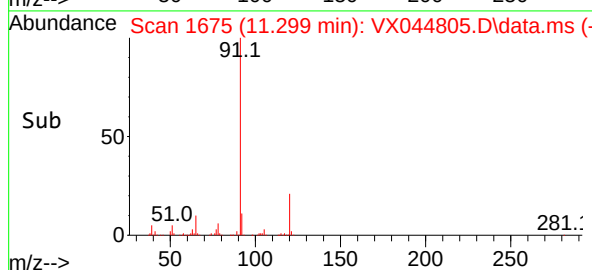
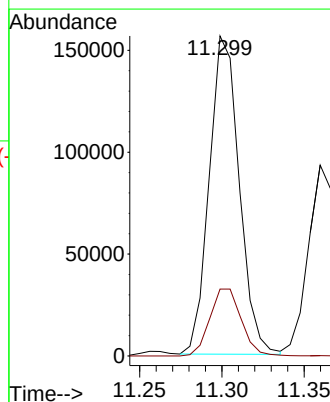
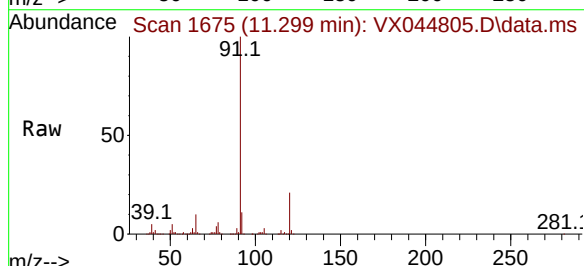
Manual Integrations
APPROVED

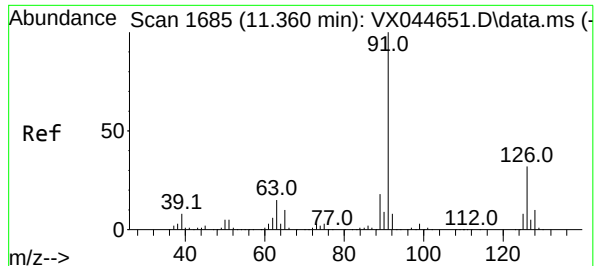
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#78
n-propylbenzene
Concen: 20.392 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

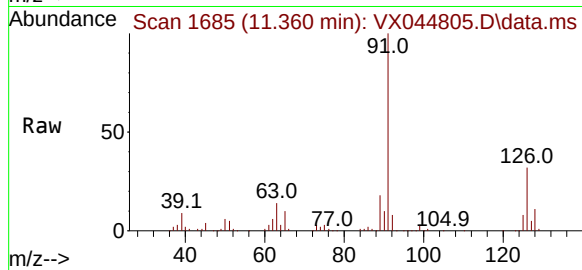
Tgt Ion: 91 Resp: 198314
Ion Ratio Lower Upper
91 100
120 22.2 11.4 34.1





#79
2-Chlorotoluene
Concen: 19.097 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

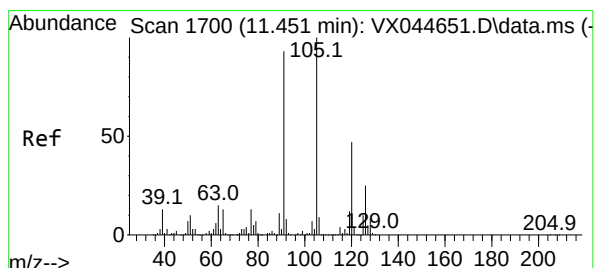
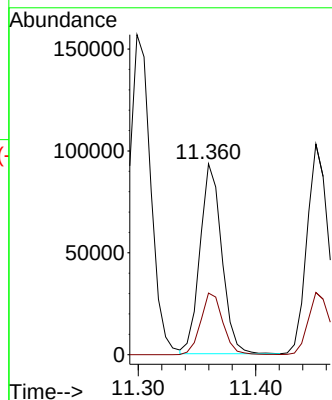
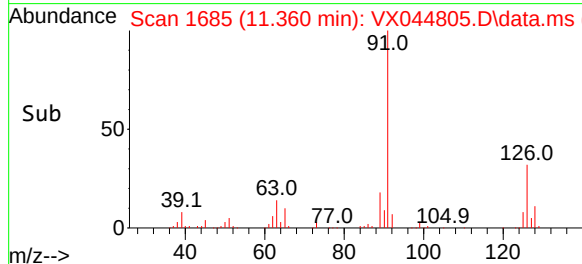
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



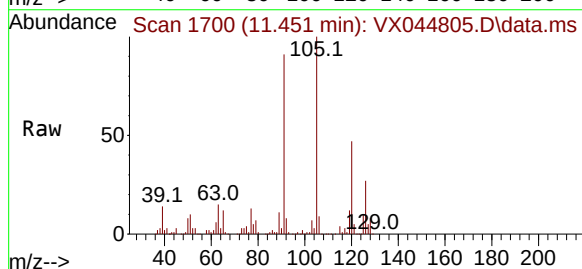
Tgt Ion: 91 Resp: 119970
Ion Ratio Lower Upper
91 100
126 33.2 16.2 48.5

Manual Integrations
APPROVED

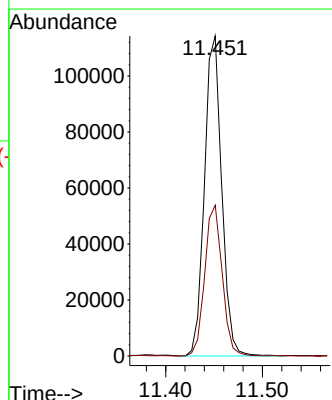
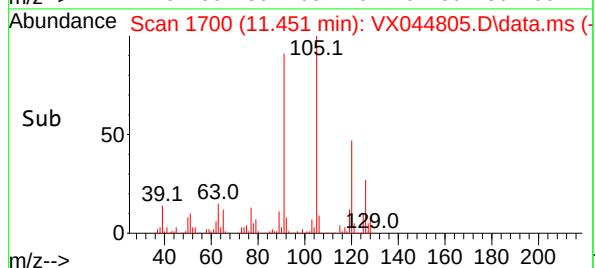
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

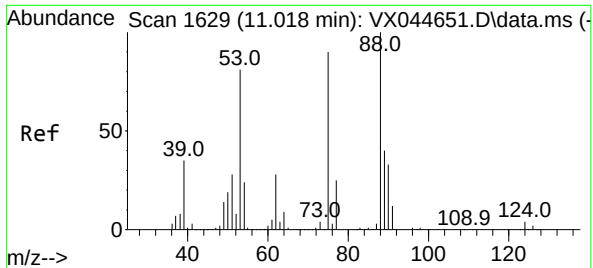


#80
1,3,5-Trimethylbenzene
Concen: 19.757 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07



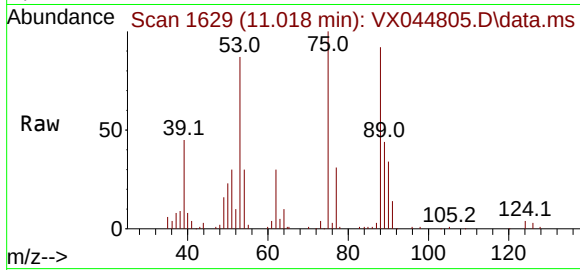
Tgt Ion:105 Resp: 141828
Ion Ratio Lower Upper
105 100
120 47.8 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 17.353 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

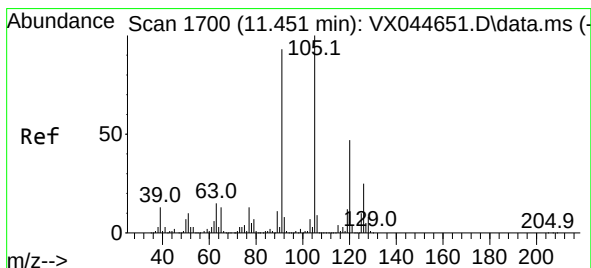
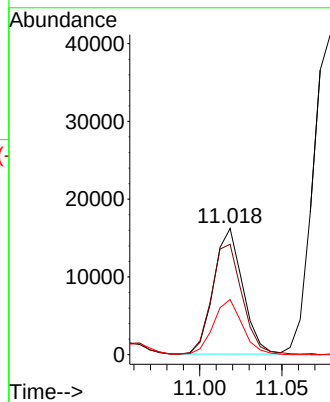
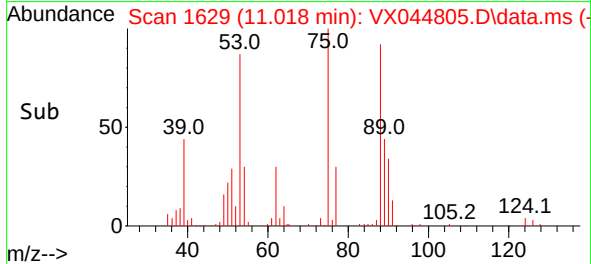
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion: 75 Resp: 19878
Ion Ratio Lower Upper
75 100
53 93.6 74.3 111.5
89 44.2 37.4 56.0

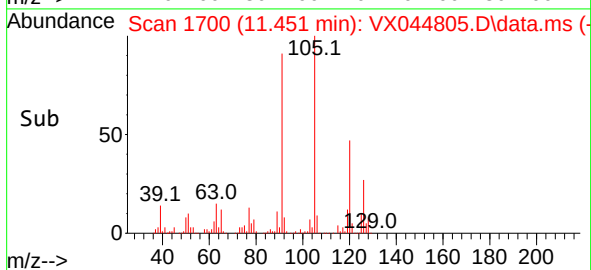
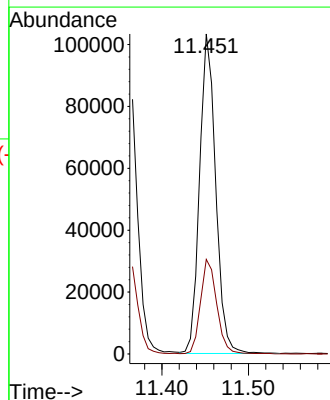
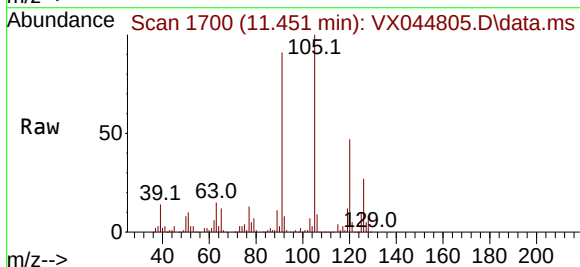
Manual Integrations
APPROVED

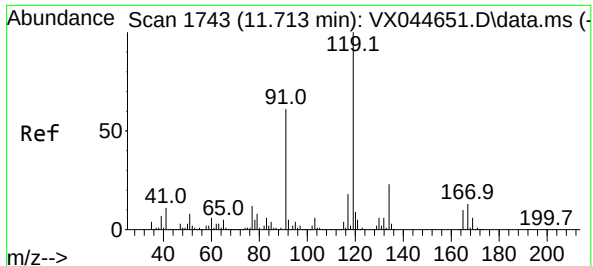
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#82
4-Chlorotoluene
Concen: 19.379 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

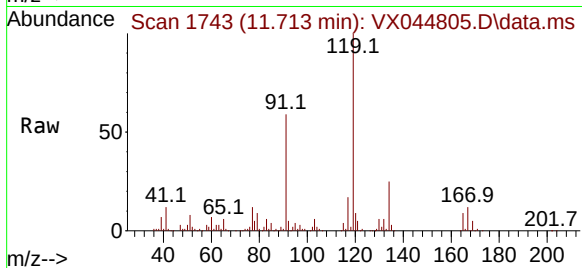
Tgt Ion: 91 Resp: 133356
Ion Ratio Lower Upper
91 100
126 30.0 13.9 41.7





#83
tert-Butylbenzene
Concen: 19.362 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

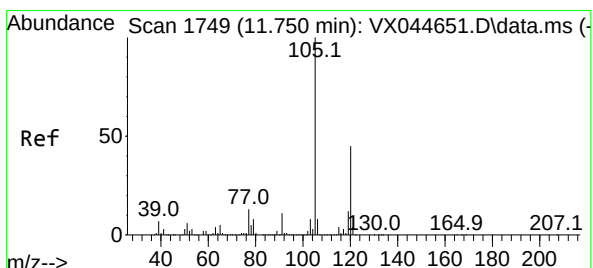
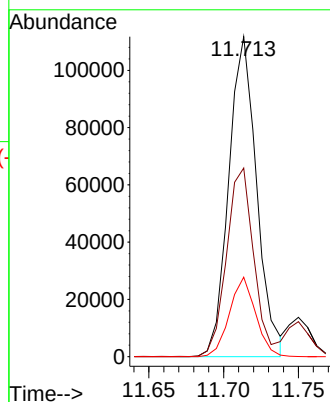
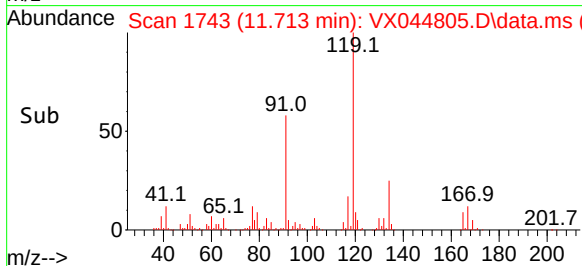
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



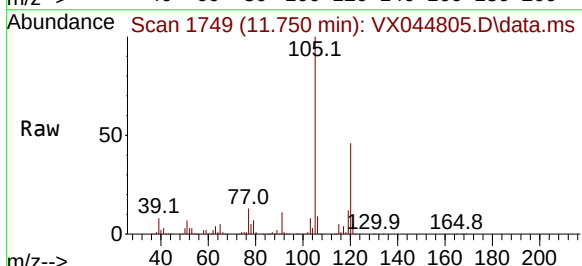
Tgt Ion:119 Resp: 145335
Ion Ratio Lower Upper
119 100
91 56.7 30.0 90.0
134 23.3 11.2 33.5

Manual Integrations
APPROVED

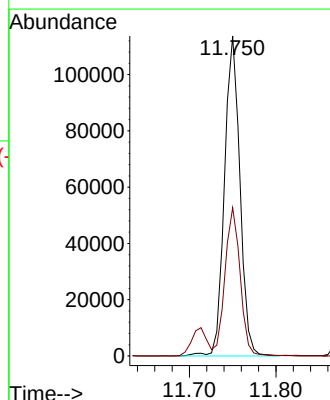
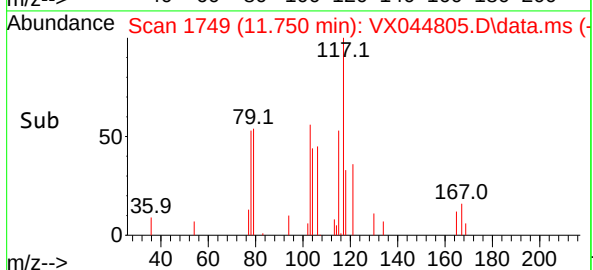
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

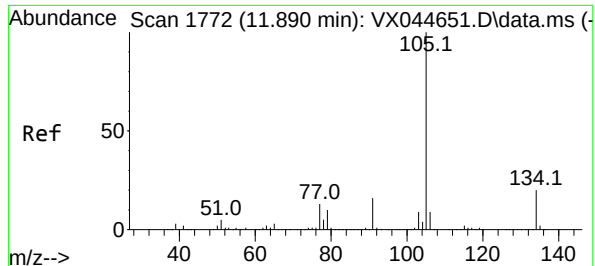


#84
1,2,4-Trimethylbenzene
Concen: 19.311 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07



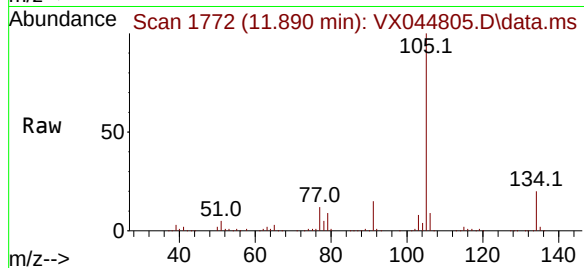
Tgt Ion:105 Resp: 140872
Ion Ratio Lower Upper
105 100
120 45.4 22.2 66.6





#85
 sec-Butylbenzene
 Concen: 20.237 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX044805.D
 Acq: 03 Feb 2025 11:07

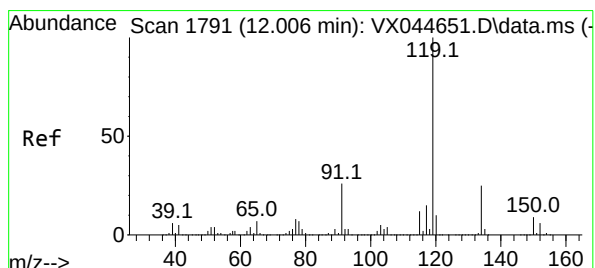
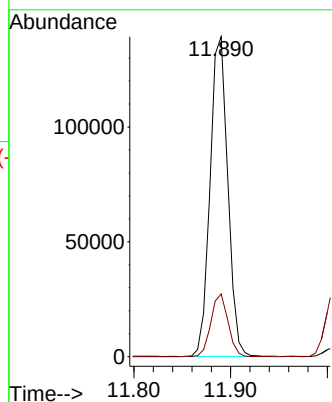
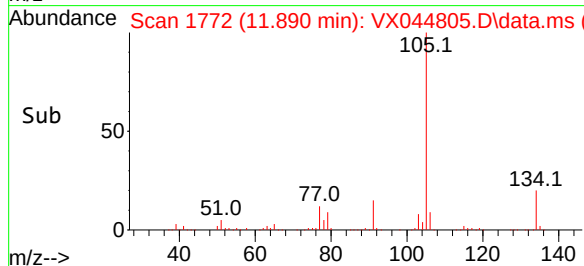
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0203WBS01



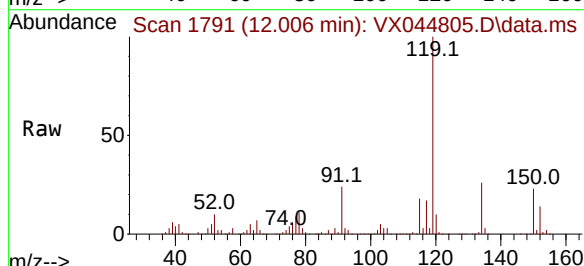
Tgt Ion:105 Resp: 176864
 Ion Ratio Lower Upper
 105 100
 134 19.1 9.8 29.5

Manual Integrations
 APPROVED

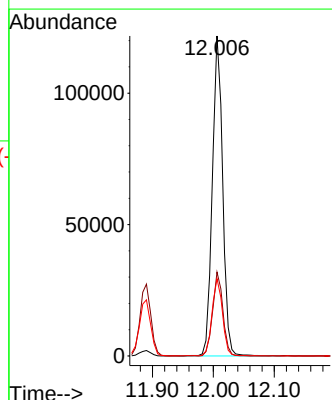
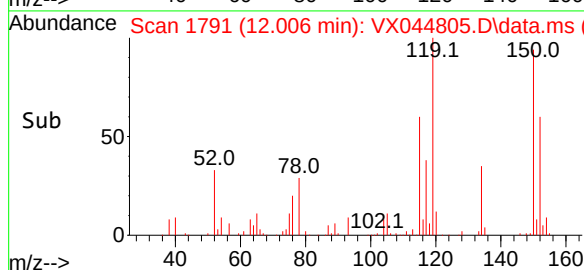
Reviewed By :John Carlone 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

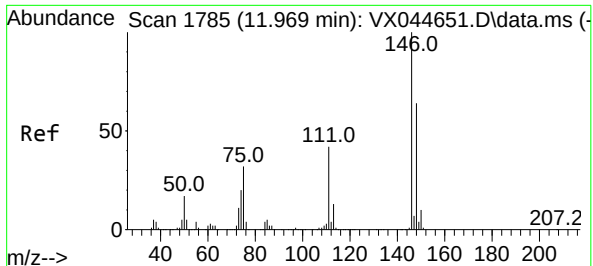


#86
 p-Isopropyltoluene
 Concen: 19.937 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. 0.000 min
 Lab File: VX044805.D
 Acq: 03 Feb 2025 11:07



Tgt Ion:119 Resp: 143197
 Ion Ratio Lower Upper
 119 100
 134 26.1 12.8 38.4
 91 24.6 12.7 38.1





#87

1,3-Dichlorobenzene

Concen: 19.746 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion:146 Resp: 7058

Ion Ratio Lower Upper

146 100

111 42.1 21.9 65.7

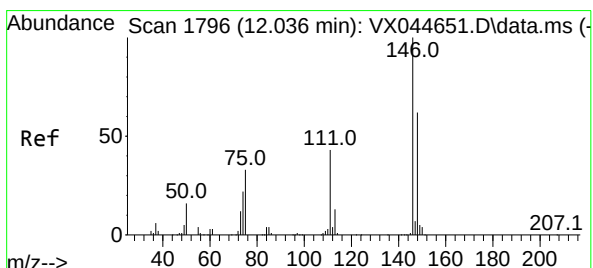
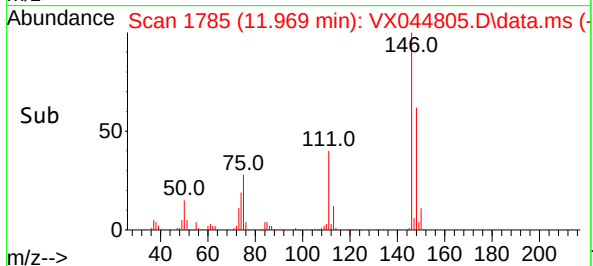
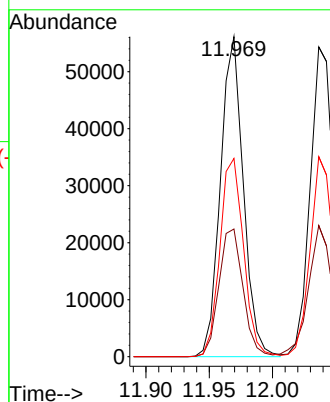
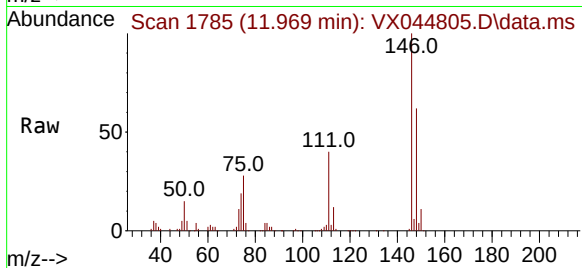
148 64.0 31.8 95.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#88

1,4-Dichlorobenzene

Concen: 19.506 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

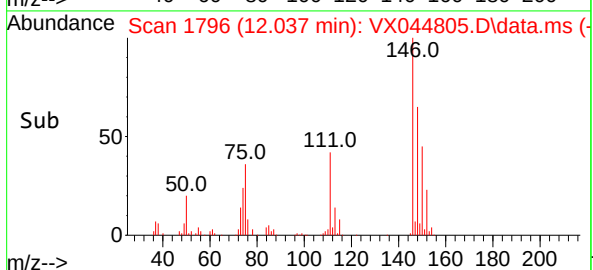
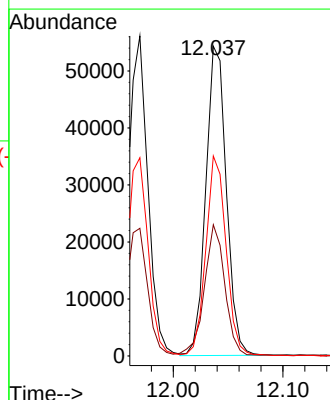
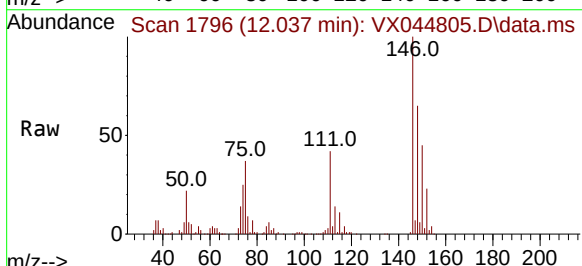
Tgt Ion:146 Resp: 70484

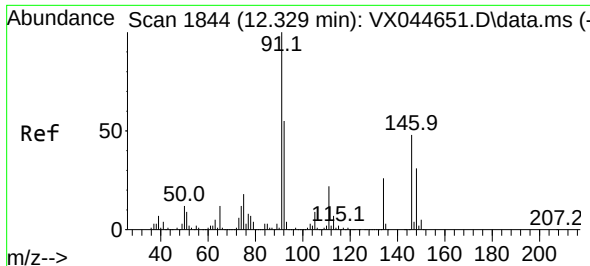
Ion Ratio Lower Upper

146 100

111 42.8 21.5 64.5

148 63.9 32.1 96.5





#89

n-Butylbenzene

Concen: 20.268 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion: 91 Resp: 125028

Ion Ratio Lower Upper

91 100

92 54.7 27.4 82.0

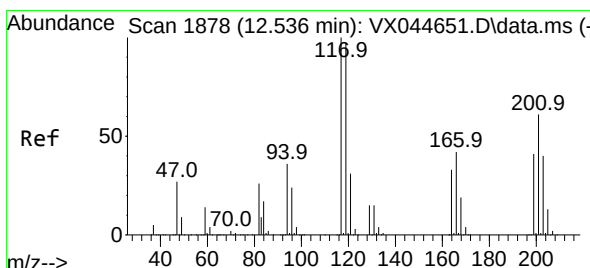
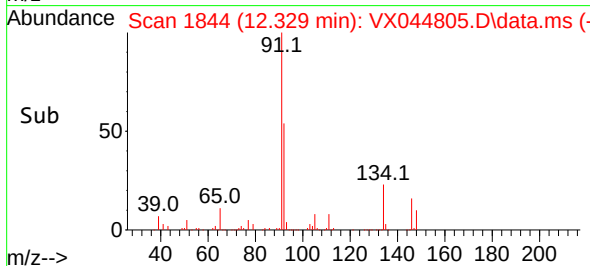
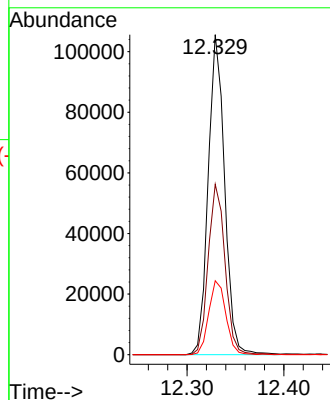
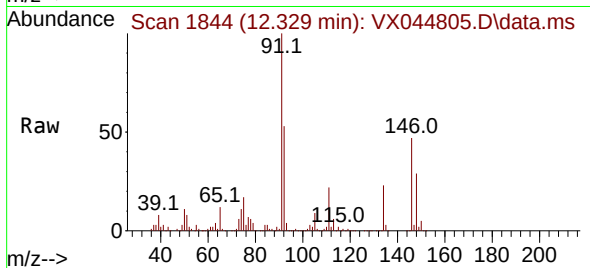
134 24.2 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#90

Hexachloroethane

Concen: 17.242 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044805.D

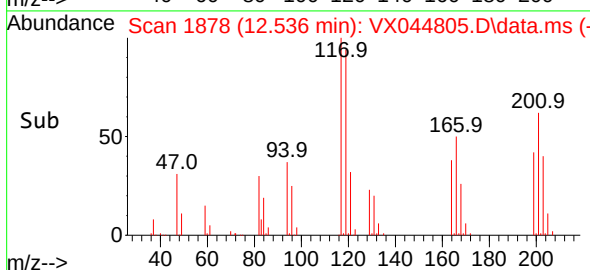
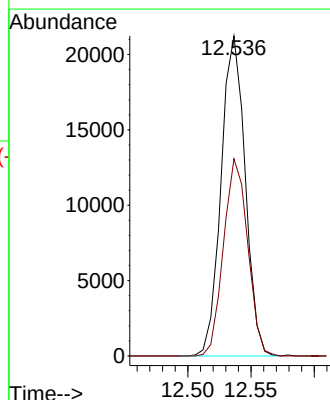
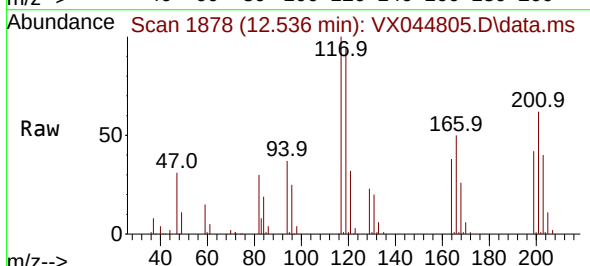
Acq: 03 Feb 2025 11:07

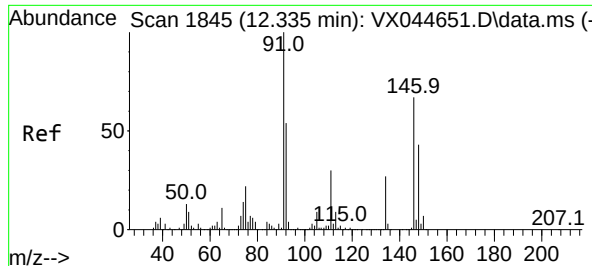
Tgt Ion:117 Resp: 28043

Ion Ratio Lower Upper

117 100

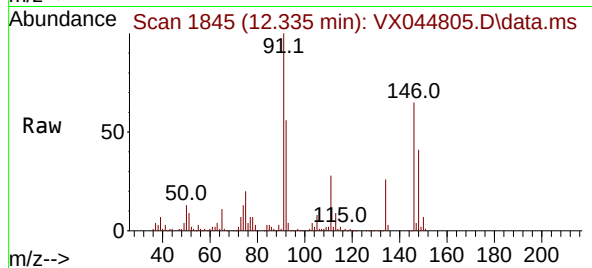
201 61.9 32.3 96.8





#91
1,2-Dichlorobenzene
Concen: 19.681 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

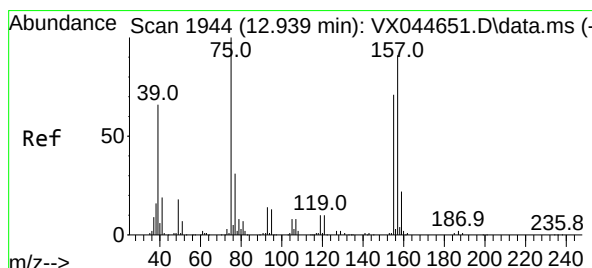
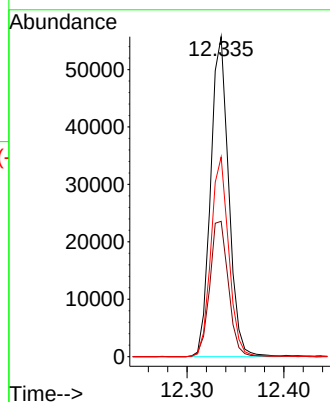
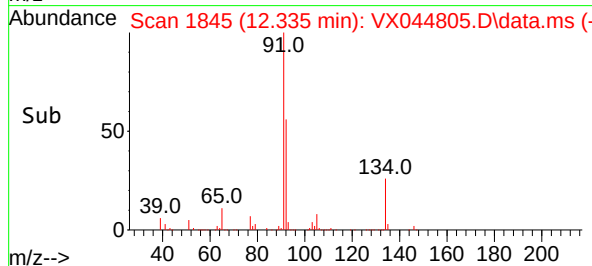
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion:146 Resp: 7224
Ion Ratio Lower Upper
146 100
111 43.9 22.4 67.2
148 61.8 31.6 94.8

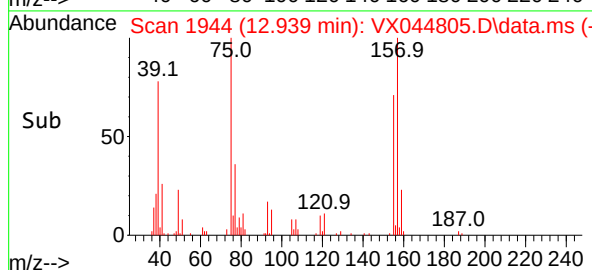
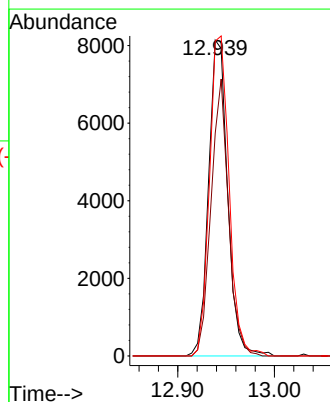
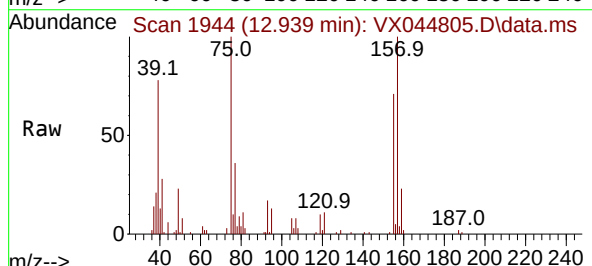
Manual Integrations
APPROVED

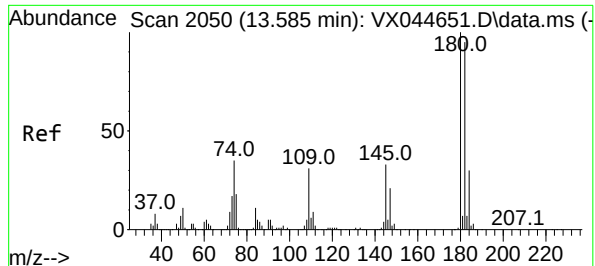
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 14.983 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Tgt Ion: 75 Resp: 11160
Ion Ratio Lower Upper
75 100
155 80.5 39.0 116.9
157 104.2 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 18.929 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBS01

Tgt Ion:180 Resp: 41539

Ion Ratio Lower Upper

180 100

182 93.0 47.4 142.2

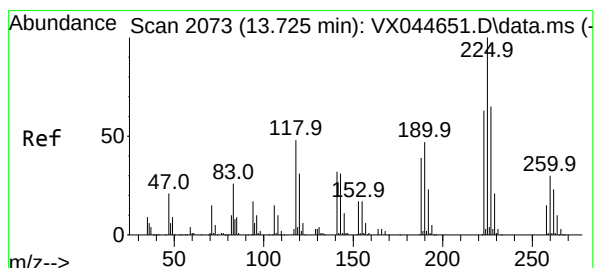
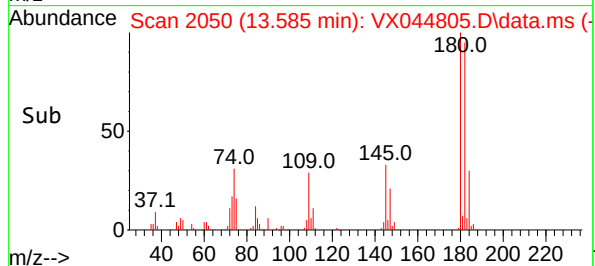
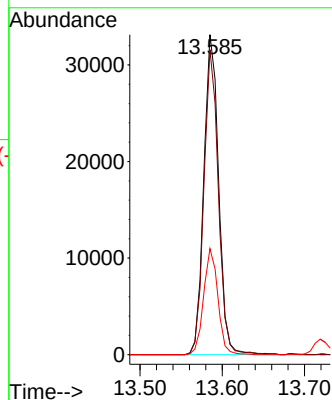
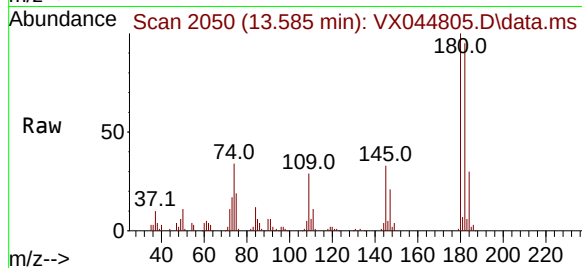
145 31.9 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#94

Hexachlorobutadiene

Concen: 18.210 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX044805.D

Acq: 03 Feb 2025 11:07

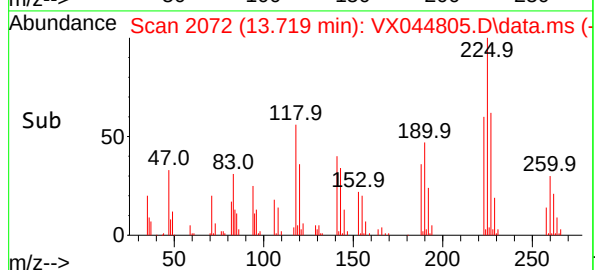
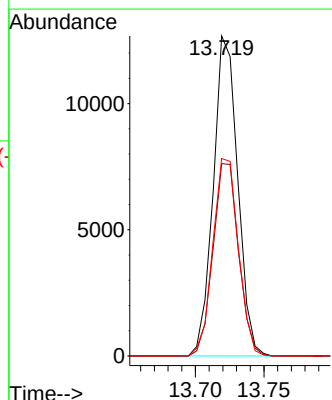
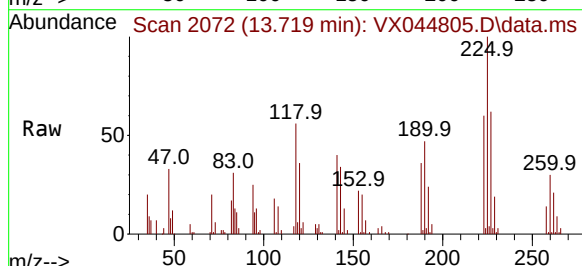
Tgt Ion:225 Resp: 15697

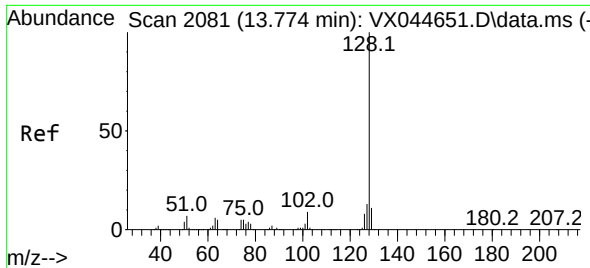
Ion Ratio Lower Upper

225 100

223 62.9 31.9 95.7

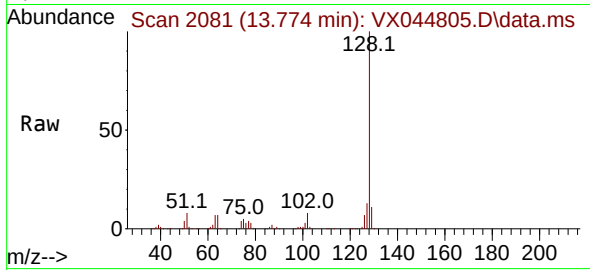
227 64.7 31.8 95.4





#95
Naphthalene
Concen: 19.194 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

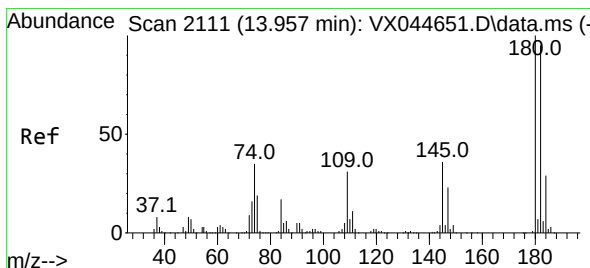
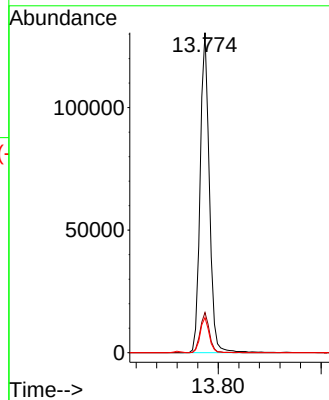
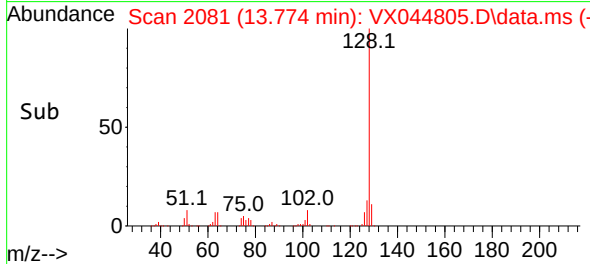
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBS01



Tgt Ion:128 Resp: 162454
Ion Ratio Lower Upper
128 100
127 12.5 10.3 15.5
129 10.6 8.7 13.1

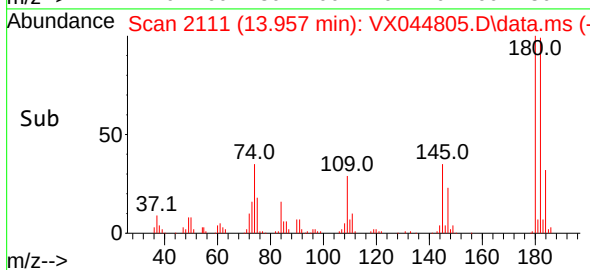
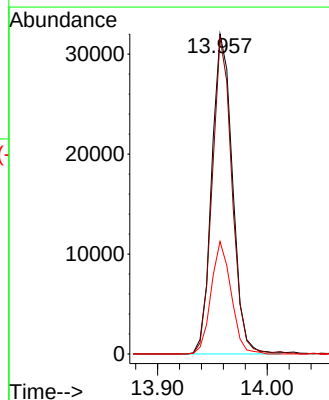
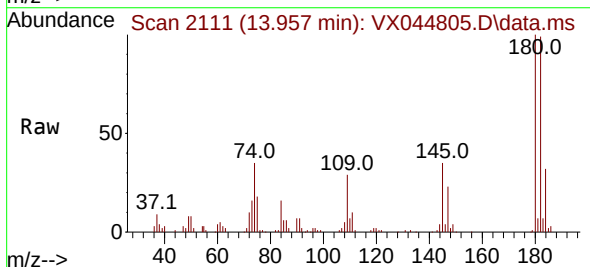
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.446 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044805.D
Acq: 03 Feb 2025 11:07

Tgt Ion:180 Resp: 41958
Ion Ratio Lower Upper
180 100
182 94.9 47.2 141.6
145 34.0 17.5 52.6



Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	VX0203WBSD01	SDG No.:	Q1235
Lab Sample ID:	VX0203WBSD01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX044806.D	1		02/03/25 11:32	VX020325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	19.2		0.34	5.00	ug/L
75-35-4	1,1-Dichloroethene	20.4		0.26	5.00	ug/L
78-93-3	2-Butanone	110		1.30	25.0	ug/L
56-23-5	Carbon Tetrachloride	17.7		0.25	5.00	ug/L
67-66-3	Chloroform	19.5		0.26	5.00	ug/L
71-43-2	Benzene	20.8		0.16	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.3		0.24	5.00	ug/L
79-01-6	Trichloroethene	20.0		0.32	5.00	ug/L
127-18-4	Tetrachloroethene	18.7		0.25	5.00	ug/L
108-90-7	Chlorobenzene	20.1		0.13	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	43.4		74 - 125	87%	SPK: 50
1868-53-7	Dibromofluoromethane	47.0		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	50.2		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.6		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	145000	5.544			
540-36-3	1,4-Difluorobenzene	266000	6.757			
3114-55-4	Chlorobenzene-d5	233000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	104000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044806.D
 Acq On : 03 Feb 2025 11:32
 Operator : JC/MD
 Sample : VX0203WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0203WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:06:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	145340	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	265785	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	233316	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	103778	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	95311	43.446	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	86.900%		
35) Dibromofluoromethane	5.379	113	79276	46.951	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.900%		
50) Toluene-d8	8.641	98	295567	50.203	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.400%		
62) 4-Bromofluorobenzene	11.079	95	104405	47.570	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	95.140%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	35630	18.218	ug/l	98
3) Chloromethane	1.301	50	43697	20.661	ug/l	96
4) Vinyl Chloride	1.374	62	40116	19.197	ug/l	100
5) Bromomethane	1.593	94	11604	23.256	ug/l	98
6) Chloroethane	1.666	64	19963	52.095	ug/l	98
7) Trichlorofluoromethane	1.874	101	52993	22.945	ug/l	96
8) Diethyl Ether	2.130	74	20289	21.768	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.319	101	34867	20.083	ug/l	98
10) Methyl Iodide	2.447	142	45913	19.370	ug/l	99
11) Tert butyl alcohol	2.971	59	46322	94.715	ug/l #	85
12) 1,1-Dichloroethene	2.313	96	34678	20.378	ug/l	100
13) Acrolein	2.233	56	17941	77.954	ug/l	97
14) Allyl chloride	2.654	41	64425	19.444	ug/l	96
15) Acrylonitrile	3.062	53	109509	114.162	ug/l	99
16) Acetone	2.380	43	85727	98.769	ug/l	98
17) Carbon Disulfide	2.502	76	92755	19.975	ug/l	100
18) Methyl Acetate	2.703	43	61502	22.968	ug/l	97
19) Methyl tert-butyl Ether	3.111	73	119444	19.378	ug/l	98
20) Methylene Chloride	2.782	84	39920	19.750	ug/l	95
21) trans-1,2-Dichloroethene	3.081	96	35263	19.847	ug/l	93
22) Diisopropyl ether	3.757	45	126896	22.032	ug/l	98
23) Vinyl Acetate	3.715	43	523389	103.822	ug/l	100
24) 1,1-Dichloroethane	3.605	63	68526	20.063	ug/l	98
25) 2-Butanone	4.550	43	143214	110.976	ug/l	97
26) 2,2-Dichloropropane	4.465	77	56049	16.932	ug/l	97
27) cis-1,2-Dichloroethene	4.477	96	43262	19.358	ug/l	99
28) Bromochloromethane	4.885	49	34671	21.723	ug/l	94
29) Tetrahydrofuran	5.001	42	92160	110.715	ug/l	98
30) Chloroform	5.086	83	67238	19.507	ug/l	99
31) Cyclohexane	5.464	56	61100	22.118	ug/l	93
32) 1,1,1-Trichloroethane	5.373	97	56489	17.827	ug/l	99
36) 1,1-Dichloropropene	5.684	75	46798	19.910	ug/l	99
37) Ethyl Acetate	4.708	43	56324	22.502	ug/l	97
38) Carbon Tetrachloride	5.666	117	46869	17.728	ug/l	96
39) Methylcyclohexane	7.373	83	63467	20.341	ug/l	98
40) Benzene	6.031	78	151452	20.794	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
 Data File : VX044806.D
 Acq On : 03 Feb 2025 11:32
 Operator : JC/MD
 Sample : VX0203WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0203WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:06:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 16 01:16:09 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.910	41	29754	20.400	ug/l	98
42) 1,2-Dichloroethane	6.080	62	48655	18.303	ug/l	99
43) Isopropyl Acetate	6.336	43	92287	20.042	ug/l	99
44) Trichloroethene	7.117	130	35030	20.006	ug/l	95
45) 1,2-Dichloropropane	7.427	63	38704	21.111	ug/l	97
46) Dibromomethane	7.574	93	26286	18.834	ug/l	99
47) Bromodichloromethane	7.818	83	53452	18.675	ug/l	98
48) Methyl methacrylate	7.690	41	44439	20.791	ug/l	99
49) 1,4-Dioxane	7.659	88	19643	440.493	ug/l	99
51) 4-Methyl-2-Pentanone	8.568	43	291936	114.726	ug/l	99
52) Toluene	8.714	92	92946	20.850	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	55543	18.783	ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	60882	18.988	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	37605	20.850	ug/l	95
56) Ethyl methacrylate	9.116	69	62106	20.027	ug/l	98
57) 1,3-Dichloropropane	9.305	76	63810	20.776	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	137824	90.525	ug/l	97
59) 2-Hexanone	9.427	43	214034	114.329	ug/l	99
60) Dibromochloromethane	9.519	129	40056	18.922	ug/l	99
61) 1,2-Dibromoethane	9.604	107	37389	19.781	ug/l	98
64) Tetrachloroethene	9.269	164	27398	18.701	ug/l	96
65) Chlorobenzene	10.073	112	99721	20.122	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	33117	18.388	ug/l	99
67) Ethyl Benzene	10.189	91	174214	20.147	ug/l	99
68) m/p-Xylenes	10.299	106	133091	41.476	ug/l	96
69) o-Xylene	10.640	106	66490	20.489	ug/l	97
70) Styrene	10.653	104	108593	20.727	ug/l	97
71) Bromoform	10.799	173	26139	17.832	ug/l #	99
73) Isopropylbenzene	10.957	105	167118	19.712	ug/l	100
74) N-amyl acetate	10.841	43	79685	19.069	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	59259	20.238	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	48598m	19.296	ug/l	
77) Bromobenzene	11.195	156	38197	19.276	ug/l	96
78) n-propylbenzene	11.299	91	190772	20.404	ug/l	100
79) 2-Chlorotoluene	11.360	91	115975	19.202	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	138028	19.999	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	18993	17.246	ug/l	99
82) 4-Chlorotoluene	11.451	91	129378	19.555	ug/l	97
83) tert-Butylbenzene	11.713	119	140356	19.450	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	138648	19.769	ug/l	100
85) sec-Butylbenzene	11.890	105	174523	20.771	ug/l	98
86) p-Isopropyltoluene	12.006	119	140063	20.284	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	69636	20.263	ug/l	97
88) 1,4-Dichlorobenzene	12.036	146	68741	19.787	ug/l	99
89) n-Butylbenzene	12.329	91	121907	20.555	ug/l	99
90) Hexachloroethane	12.536	117	26861	17.178	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	70508	19.978	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	11294	15.772	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	41158	19.508	ug/l	99
94) Hexachlorobutadiene	13.719	225	15830	19.101	ug/l	100
95) Naphthalene	13.774	128	158930	19.531	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	40771	18.643	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
Data File : VX044806.D
Acq On : 03 Feb 2025 11:32
Operator : JC/MD
Sample : VX0203WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:06:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

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

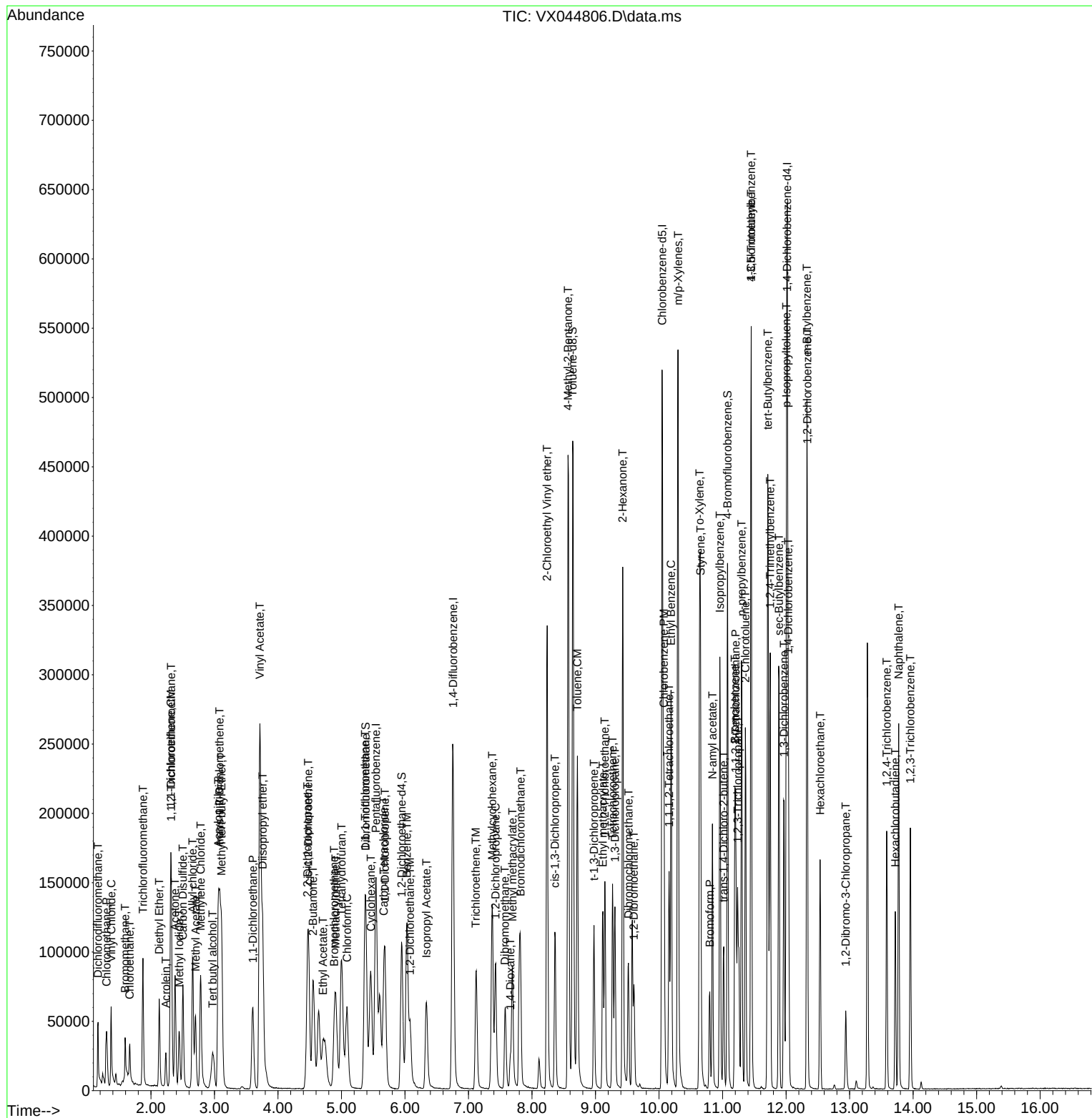
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020325\
Data File : VX044806.D
Acq On : 03 Feb 2025 11:32
Operator : JC/MD
Sample : VX0203WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

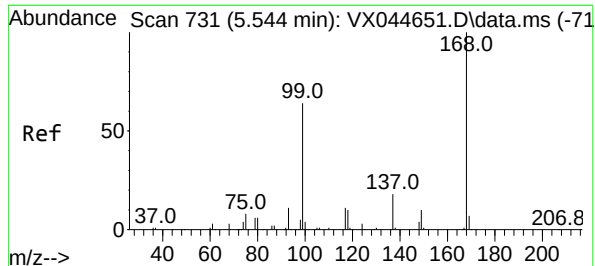
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

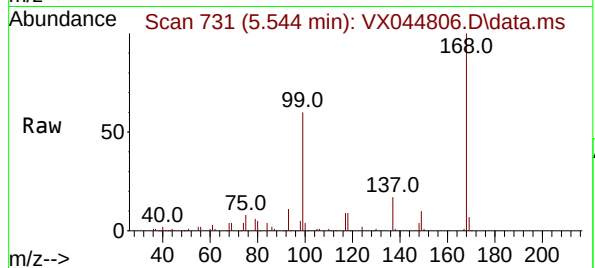
Quant Time: Feb 04 02:06:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

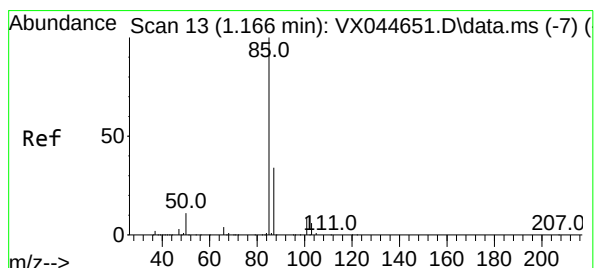
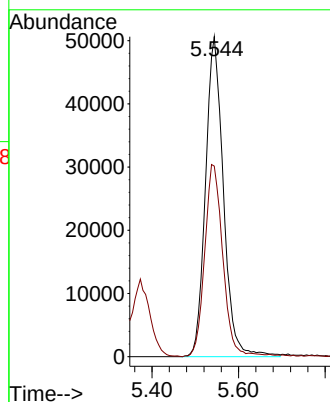
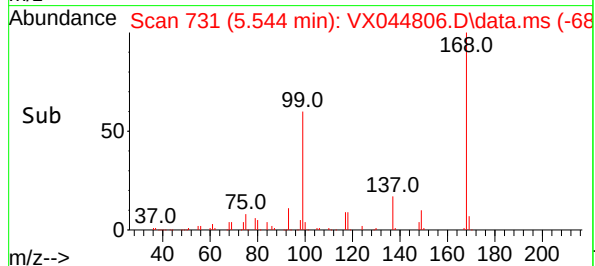
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion:168 Resp: 145340
Ion Ratio Lower Upper
168 100
99 59.4 51.1 76.7

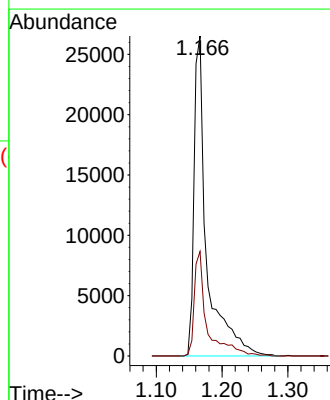
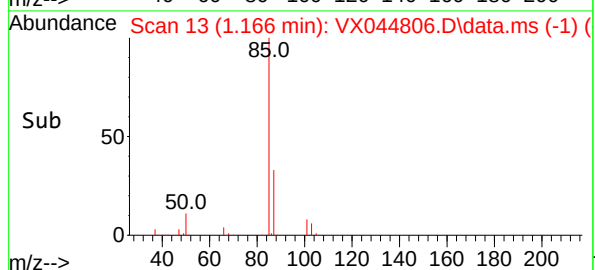
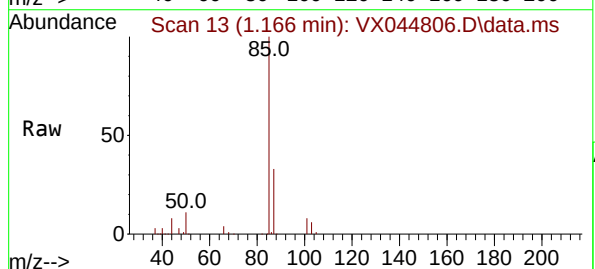
Manual Integrations
APPROVED

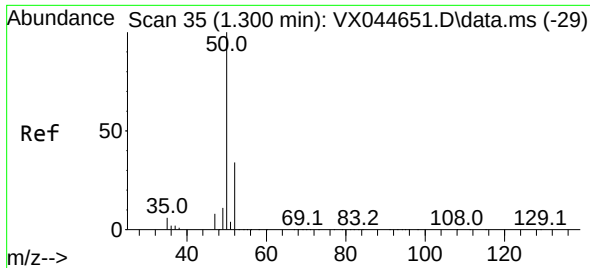
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#2
Dichlorodifluoromethane
Concen: 18.218 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Tgt Ion: 85 Resp: 35630
Ion Ratio Lower Upper
85 100
87 32.7 16.8 50.4





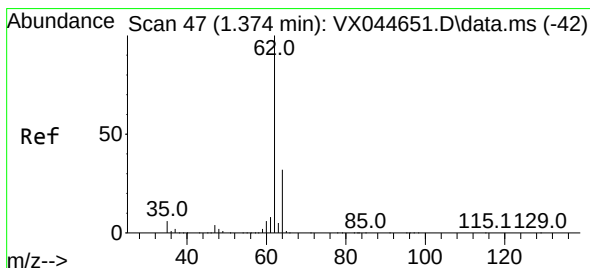
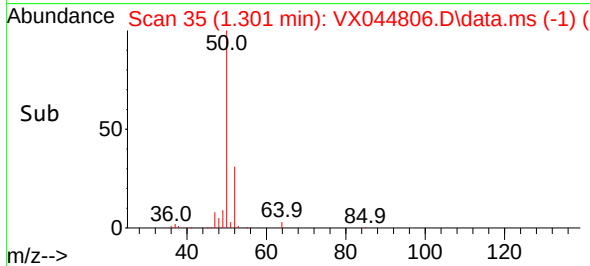
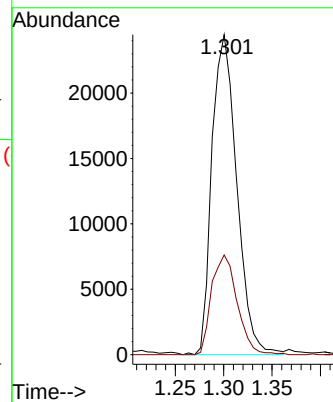
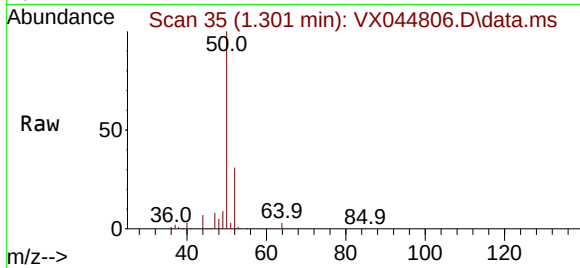
#3
Chloromethane
Concen: 20.661 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01

Tgt Ion: 50 Resp: 4369
Ion Ratio Lower Upper
50 100
52 31.2 27.0 40.4

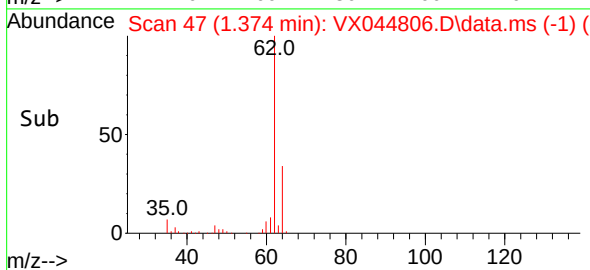
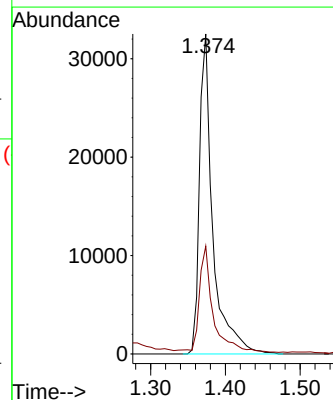
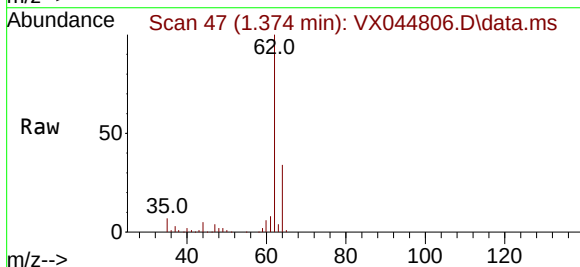
Manual Integrations
APPROVED

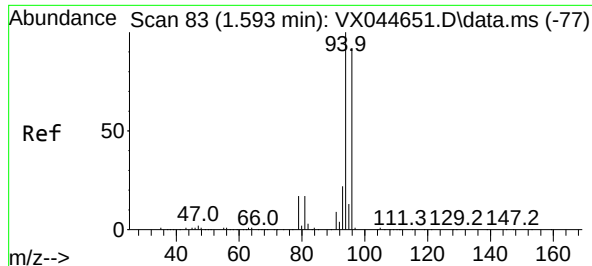
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#4
Vinyl Chloride
Concen: 19.197 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

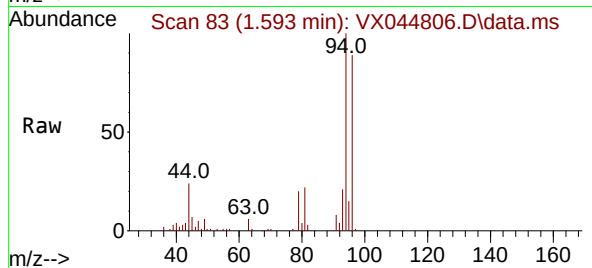
Tgt Ion: 62 Resp: 40116
Ion Ratio Lower Upper
62 100
64 33.1 26.6 39.8





#5
Bromomethane
Concen: 23.256 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

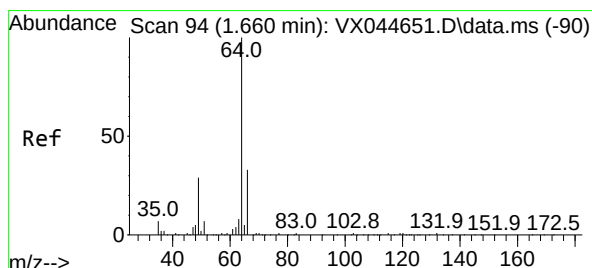
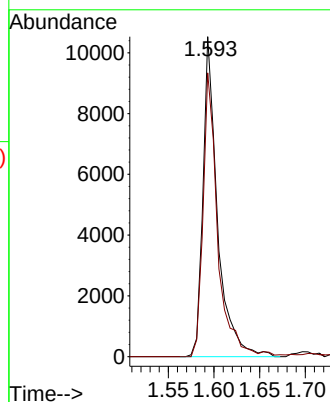
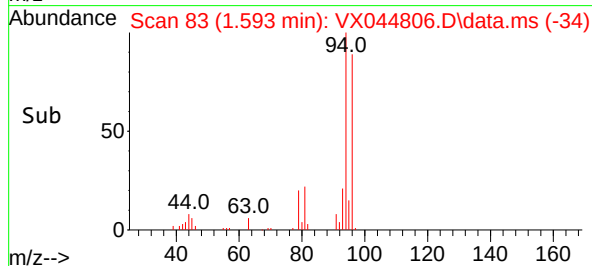
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion: 94 Resp: 11604
Ion Ratio Lower Upper
94 100
96 88.7 72.8 109.2

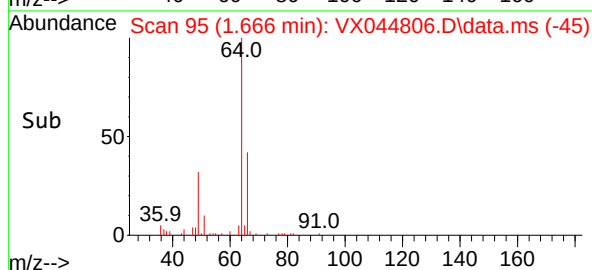
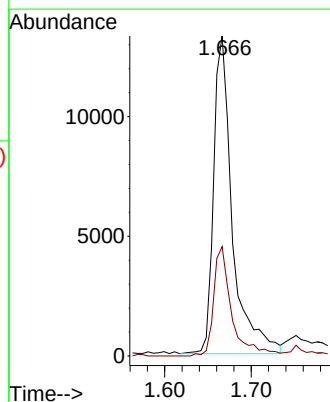
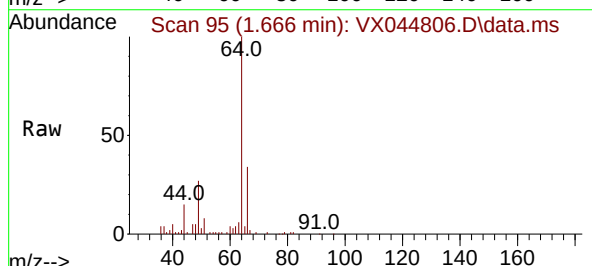
Manual Integrations
APPROVED

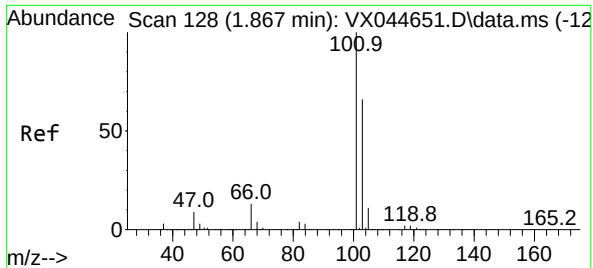
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#6
Chloroethane
Concen: 52.095 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Tgt Ion: 64 Resp: 19963
Ion Ratio Lower Upper
64 100
66 34.5 26.6 39.8





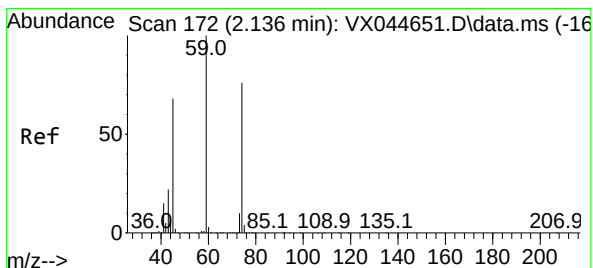
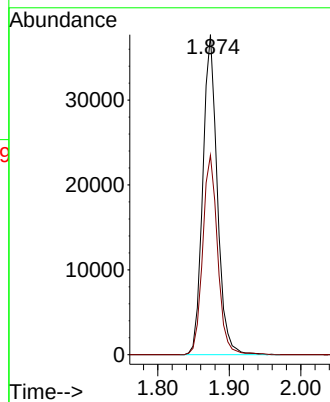
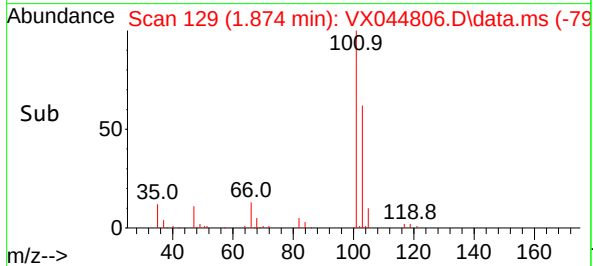
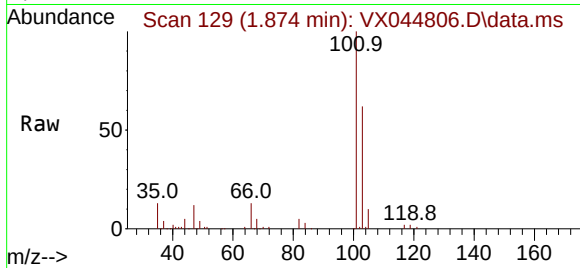
#7
Trichlorofluoromethane
Concen: 22.945 ug/l
RT: 1.874 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01

Tgt Ion:101 Resp: 5299
Ion Ratio Lower Upper
101 100
103 62.3 52.5 78.7

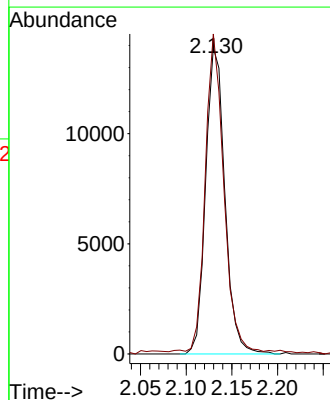
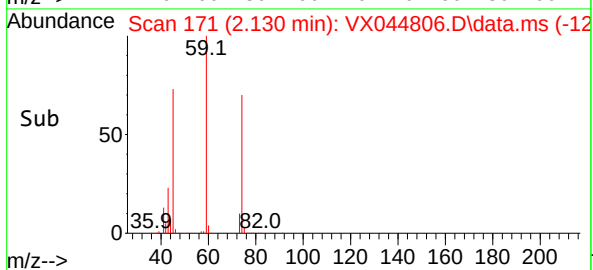
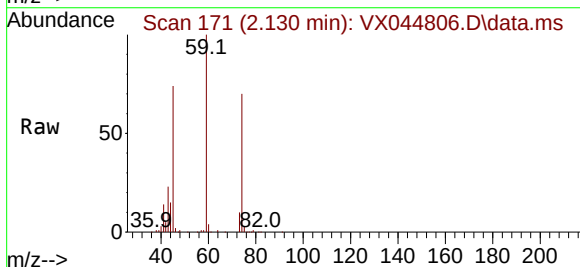
Manual Integrations
APPROVED

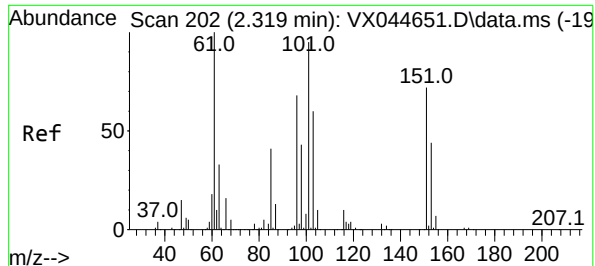
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#8
Diethyl Ether
Concen: 21.768 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

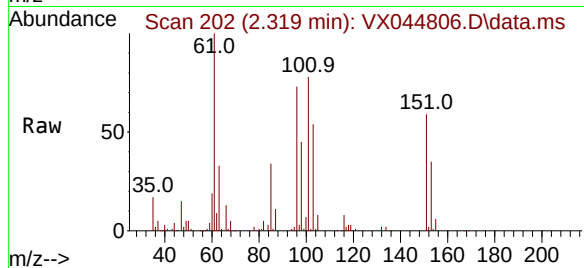
Tgt Ion: 74 Resp: 20289
Ion Ratio Lower Upper
74 100
45 101.2 47.1 141.3





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.083 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

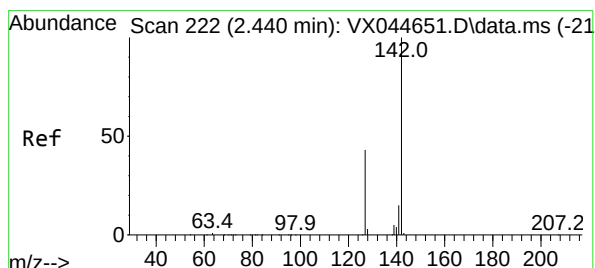
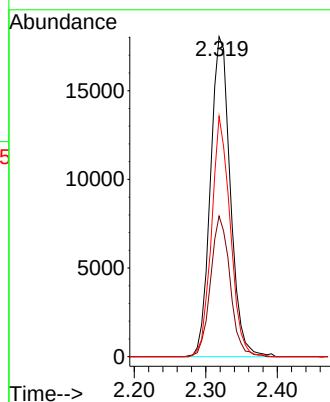
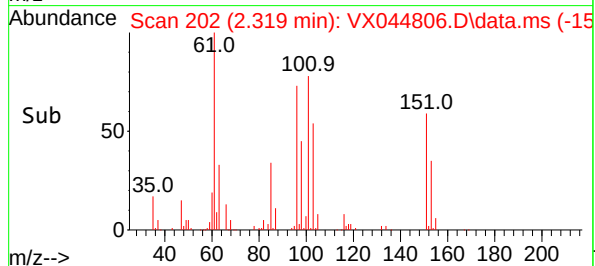
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



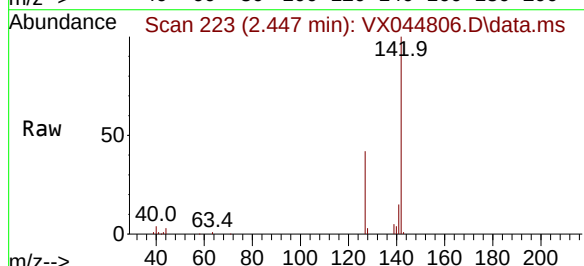
Tgt Ion	Ratio	Lower	Upper
101	100		
85	43.0	35.3	52.9
151	70.7	58.2	87.4

Manual Integrations
APPROVED

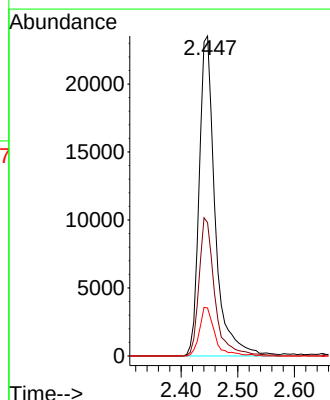
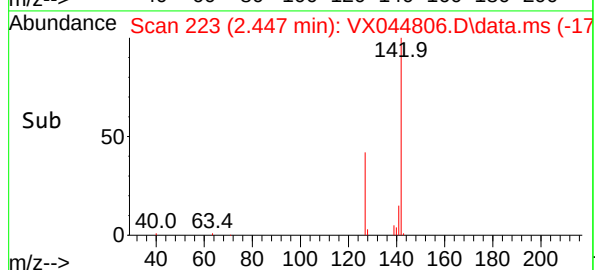
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

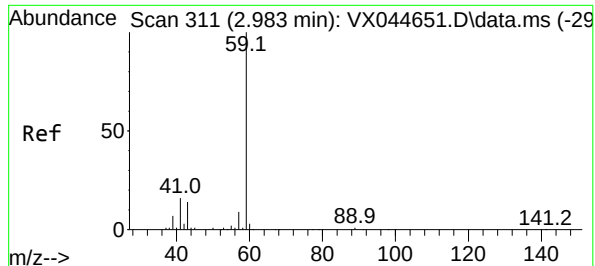


#10
Methyl Iodide
Concen: 19.370 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32



Tgt Ion	Ratio	Lower	Upper
142	100		
127	42.7	35.0	52.4
141	14.7	11.7	17.5





#11

Tert butyl alcohol

Concen: 94.715 ug/l

RT: 2.971 min Scan# 30

Delta R.T. -0.012 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 59 Resp: 4632

Ion Ratio Lower Upper

59 100

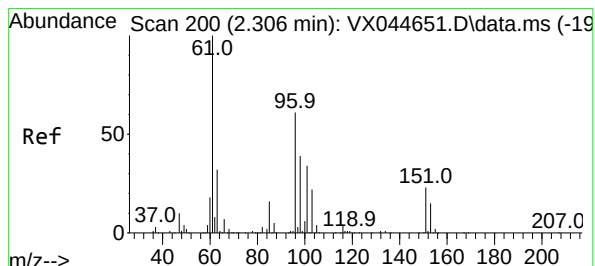
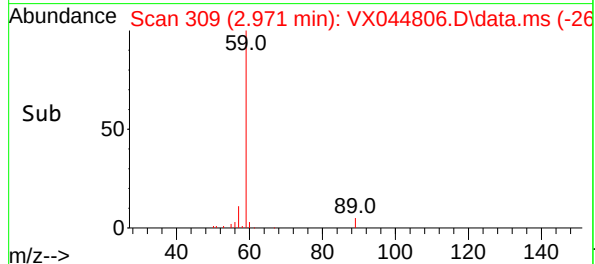
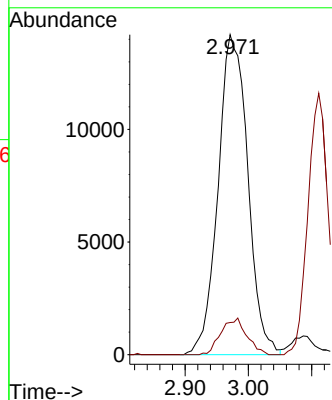
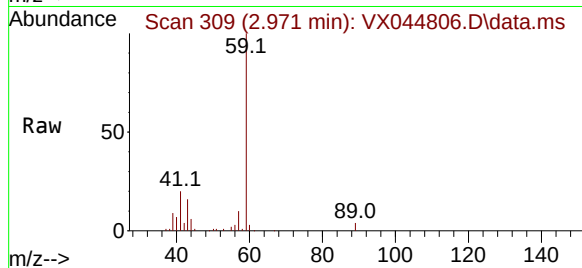
57 9.9 3.9 5.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#12

1,1-Dichloroethene

Concen: 20.378 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.006 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

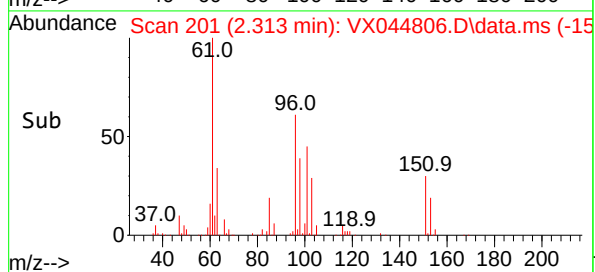
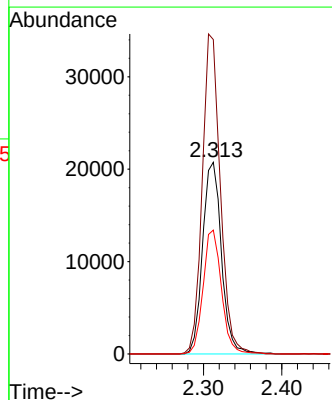
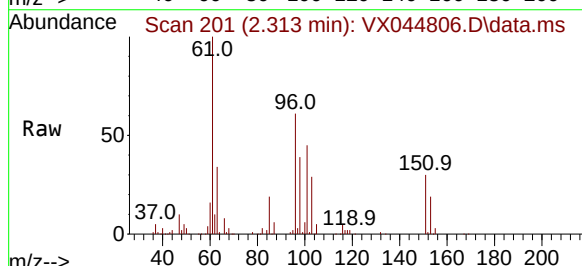
Tgt Ion: 96 Resp: 34678

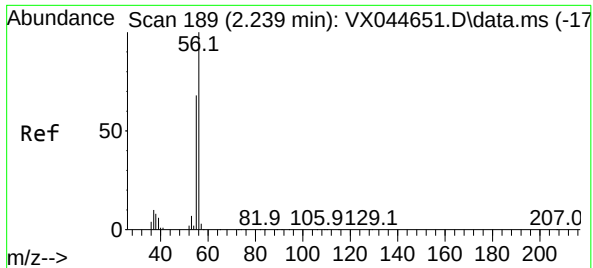
Ion Ratio Lower Upper

96 100

61 164.1 131.1 196.7

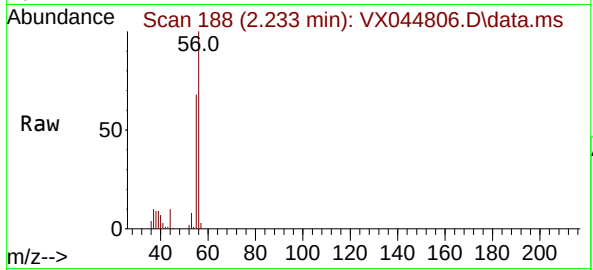
98 64.6 51.2 76.8





#13
Acrolein
Concen: 77.954 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

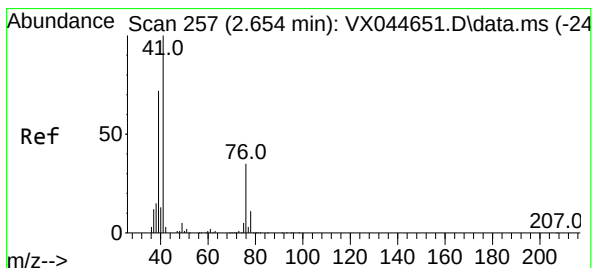
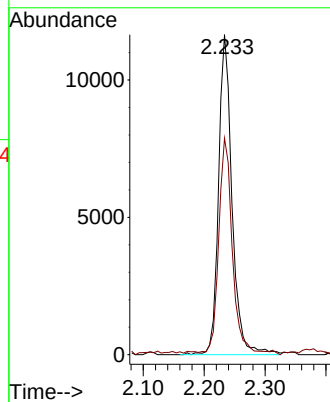
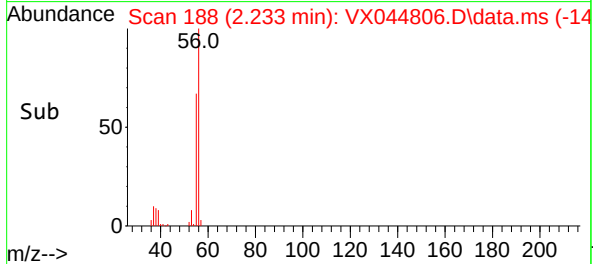
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion: 56 Resp: 1794
Ion Ratio Lower Upper
56 100
55 66.7 55.1 82.7

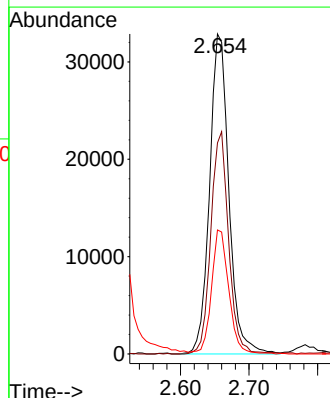
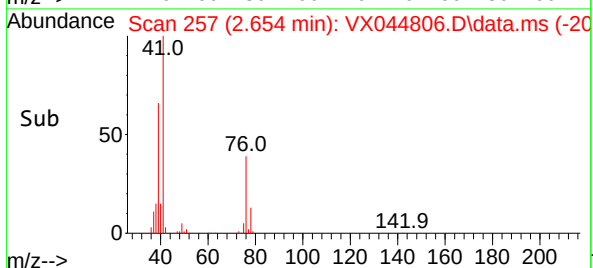
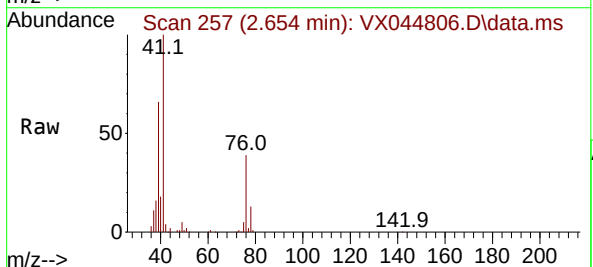
Manual Integrations
APPROVED

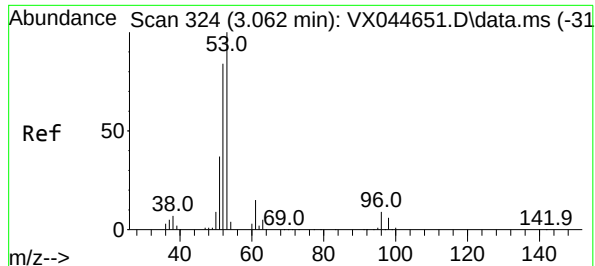
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#14
Allyl chloride
Concen: 19.444 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Tgt Ion: 41 Resp: 64425
Ion Ratio Lower Upper
41 100
39 64.1 54.9 82.3
76 34.8 28.4 42.6





#15

Acrylonitrile

Concen: 114.162 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 53 Resp: 109509

Ion Ratio Lower Upper

53 100

52 81.8 66.0 99.0

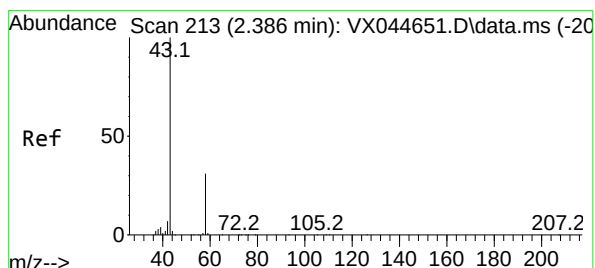
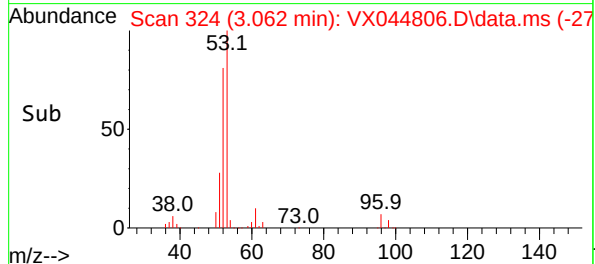
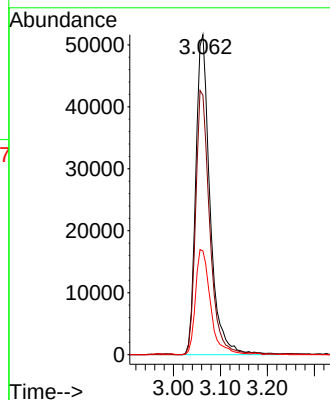
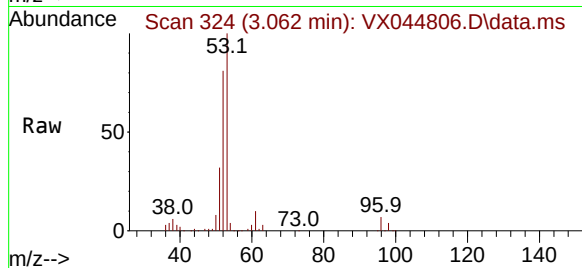
51 34.6 28.9 43.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#16

Acetone

Concen: 98.769 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX044806.D

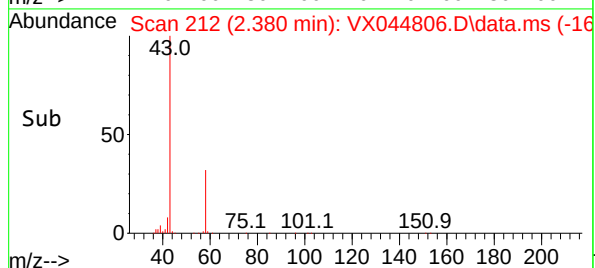
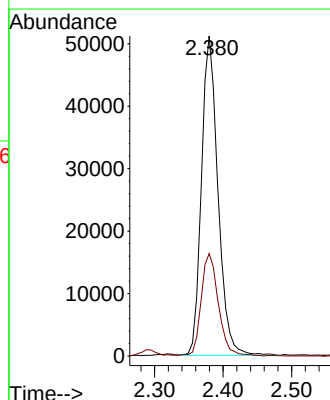
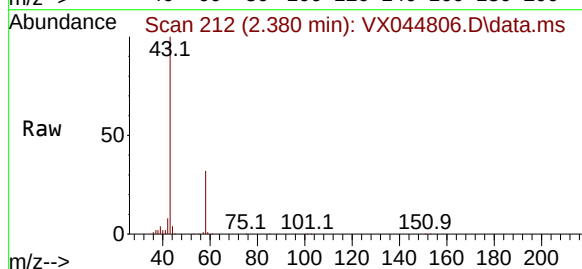
Acq: 03 Feb 2025 11:32

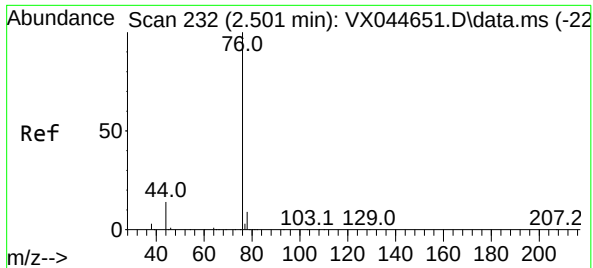
Tgt Ion: 43 Resp: 85727

Ion Ratio Lower Upper

43 100

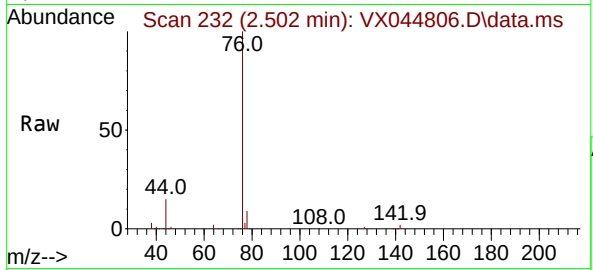
58 32.0 24.6 37.0





#17
Carbon Disulfide
Concen: 19.975 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

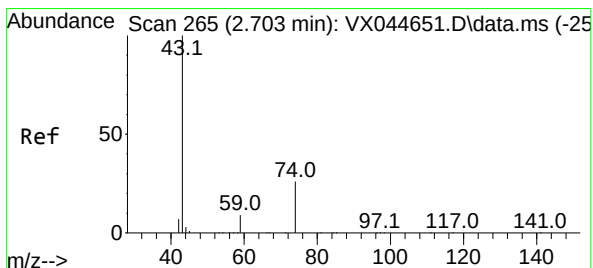
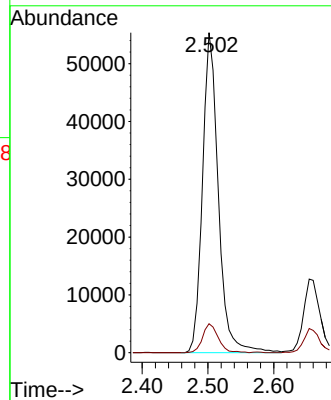
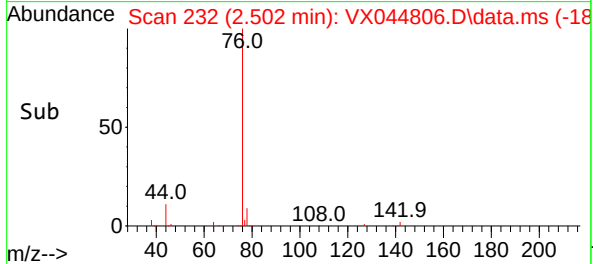
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion: 76 Resp: 9275
Ion Ratio Lower Upper
76 100
78 9.1 7.1 10.7

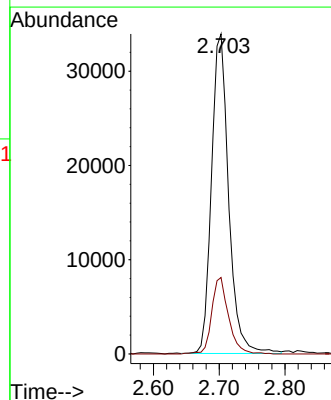
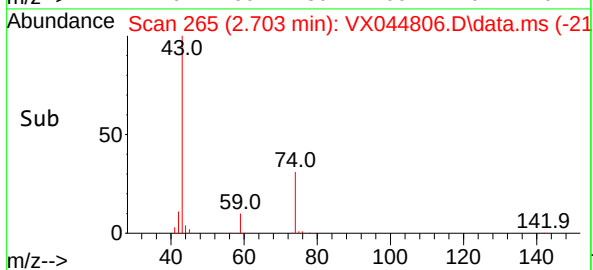
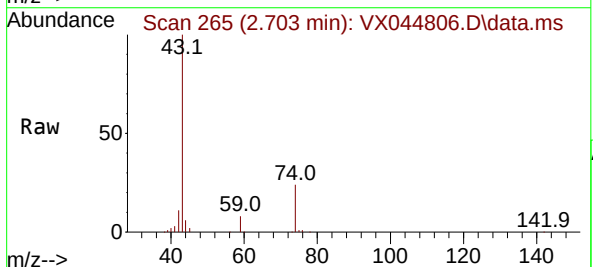
Manual Integrations
APPROVED

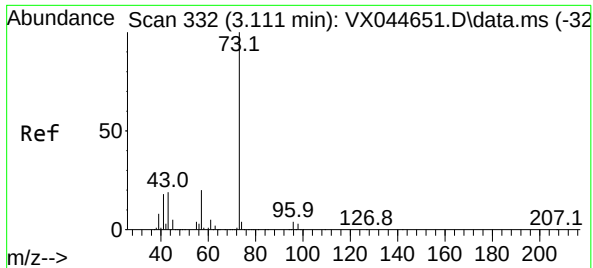
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#18
Methyl Acetate
Concen: 22.968 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Tgt Ion: 43 Resp: 61502
Ion Ratio Lower Upper
43 100
74 23.5 19.8 29.8





#19

Methyl tert-butyl Ether

Concen: 19.378 ug/l

RT: 3.111 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 73 Resp: 11944

Ion Ratio Lower Upper

73 100

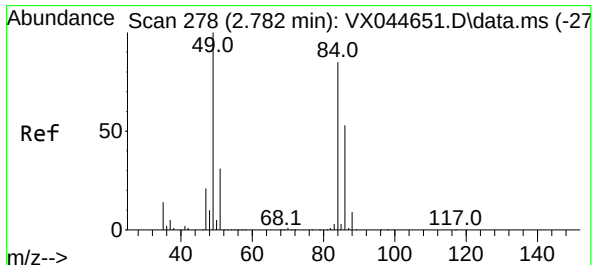
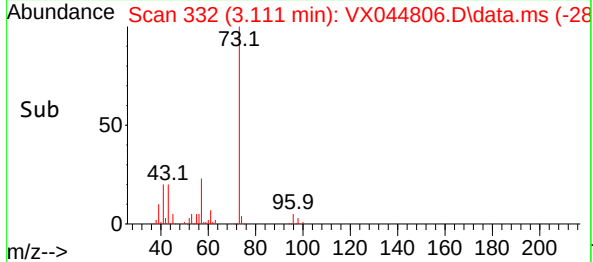
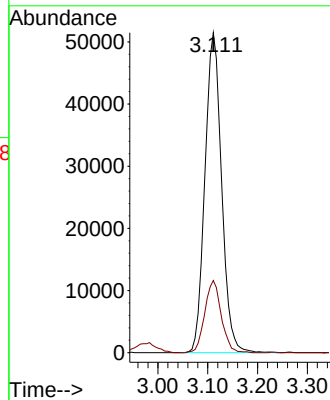
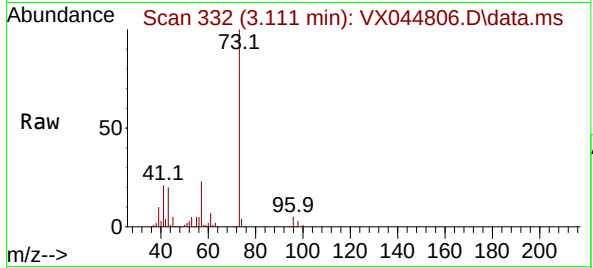
57 22.6 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#20

Methylene Chloride

Concen: 19.750 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Tgt Ion: 84 Resp: 39920

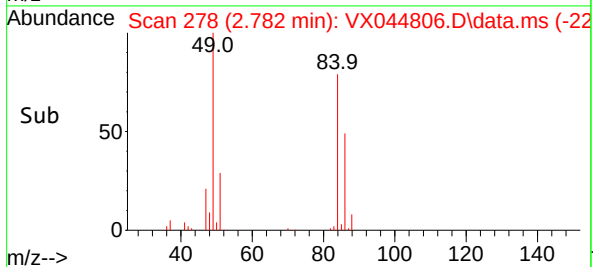
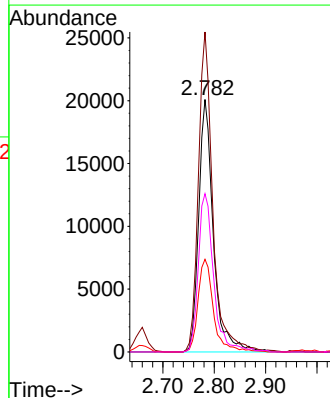
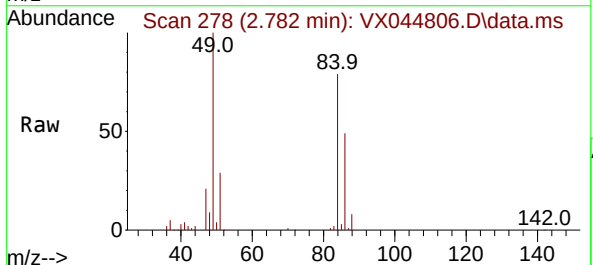
Ion Ratio Lower Upper

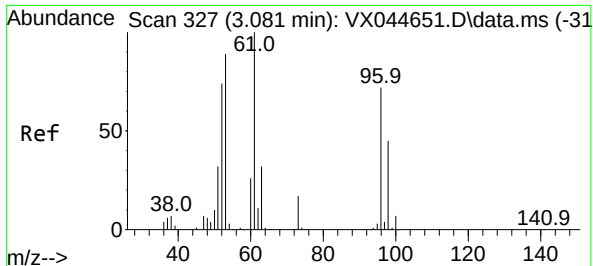
84 100

49 126.7 94.2 141.4

51 36.7 28.8 43.2

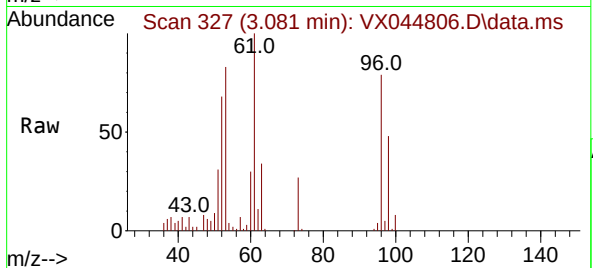
86 62.7 50.3 75.5





#21
trans-1,2-Dichloroethene
Concen: 19.847 ug/l
RT: 3.081 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

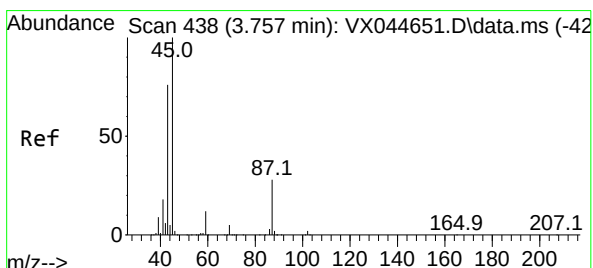
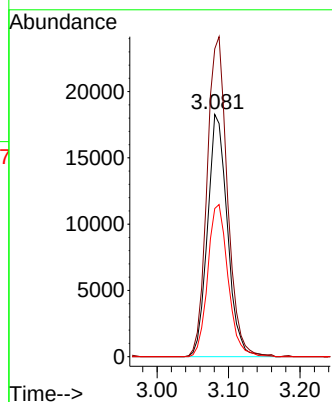
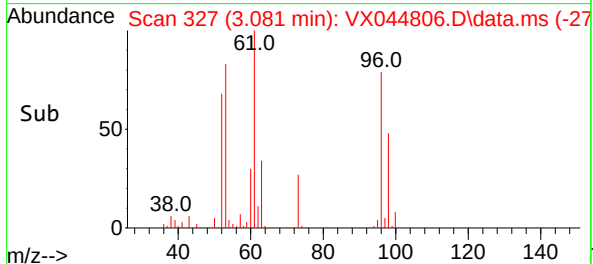
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



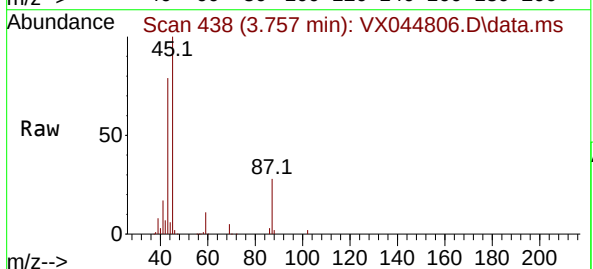
Tgt Ion: 96 Resp: 3526
Ion Ratio Lower Upper
96 100
61 127.1 111.0 166.6
98 61.2 50.2 75.2

Manual Integrations
APPROVED

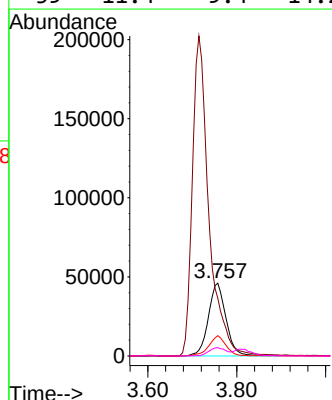
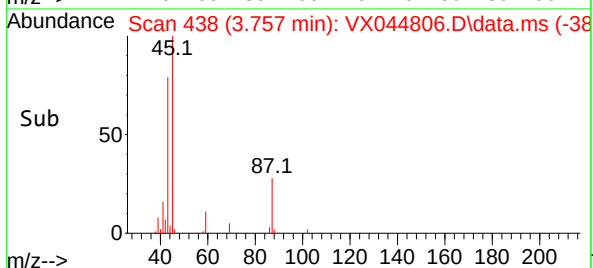
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

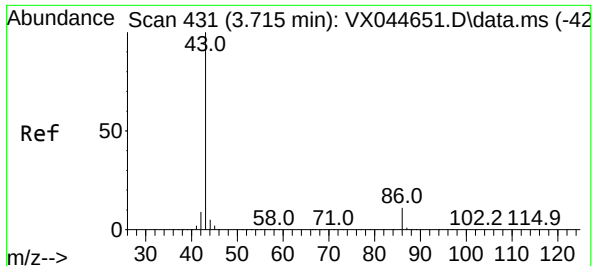


#22
Diisopropyl ether
Concen: 22.032 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32



Tgt Ion: 45 Resp: 126896
Ion Ratio Lower Upper
45 100
43 78.9 61.0 91.6
87 27.9 22.7 34.1
59 11.4 9.4 14.2





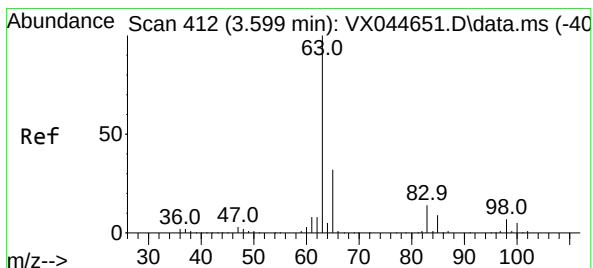
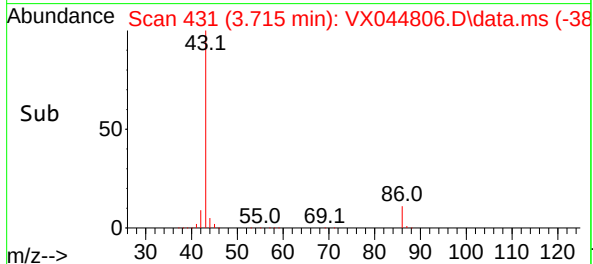
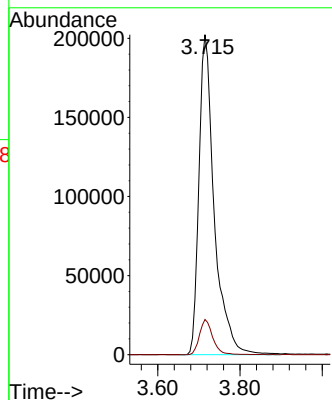
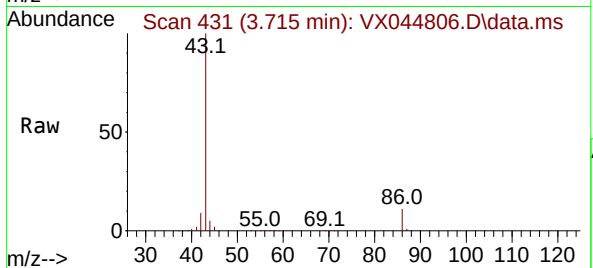
#23
Vinyl Acetate
Concen: 103.822 ug/l
RT: 3.715 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01

Tgt Ion: 43 Resp: 523389
Ion Ratio Lower Upper
43 100
86 11.0 8.9 13.3

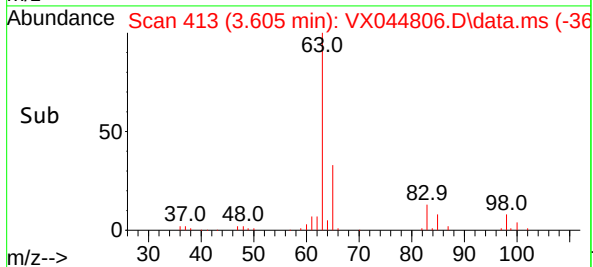
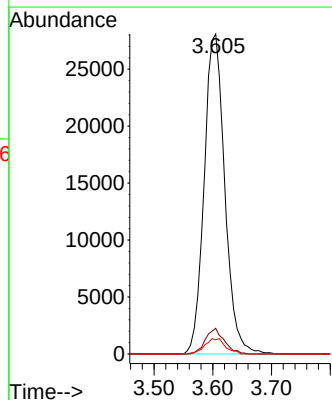
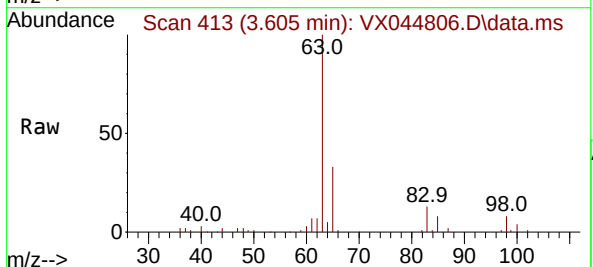
Manual Integrations
APPROVED

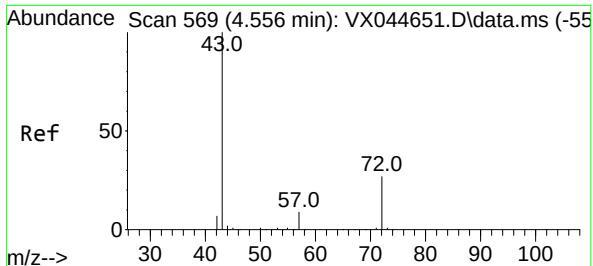
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#24
1,1-Dichloroethane
Concen: 20.063 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Tgt Ion: 63 Resp: 68526
Ion Ratio Lower Upper
63 100
98 8.0 3.6 10.9
100 4.4 2.5 7.5





#25

2-Butanone

Concen: 110.976 ug/l

RT: 4.550 min Scan# 5

Delta R.T. -0.006 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 43 Resp: 143214

Ion Ratio Lower Upper

43 100

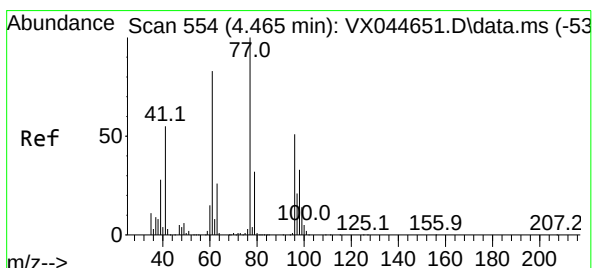
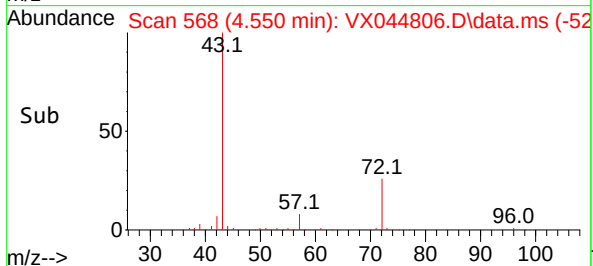
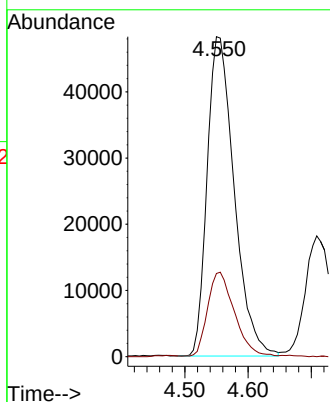
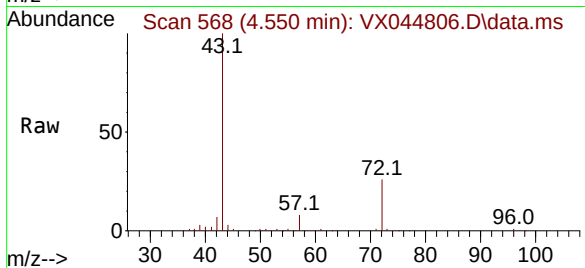
72 25.8 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#26

2,2-Dichloropropane

Concen: 16.932 ug/l

RT: 4.465 min Scan# 554

Delta R.T. 0.000 min

Lab File: VX044806.D

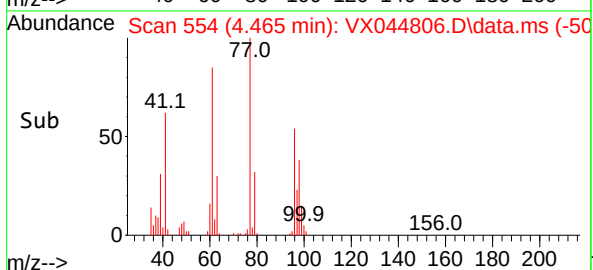
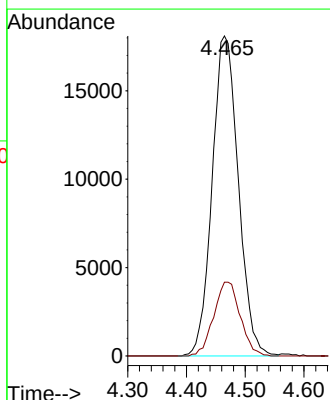
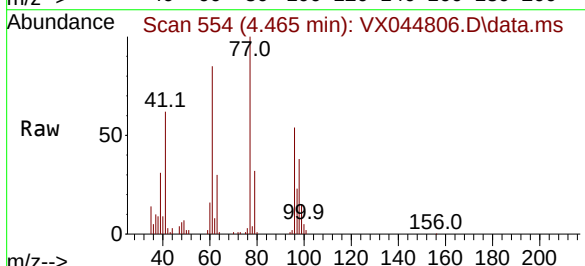
Acq: 03 Feb 2025 11:32

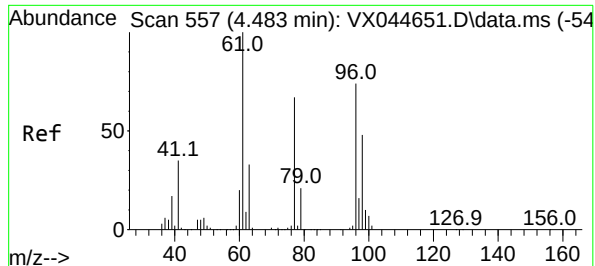
Tgt Ion: 77 Resp: 56049

Ion Ratio Lower Upper

77 100

97 23.3 10.9 32.6





#27

cis-1,2-Dichloroethene

Concen: 19.358 ug/l

RT: 4.477 min Scan# 557

Delta R.T. -0.006 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 96 Resp: 4326

Ion Ratio Lower Upper

96 100

61 146.4 0.0 296.0

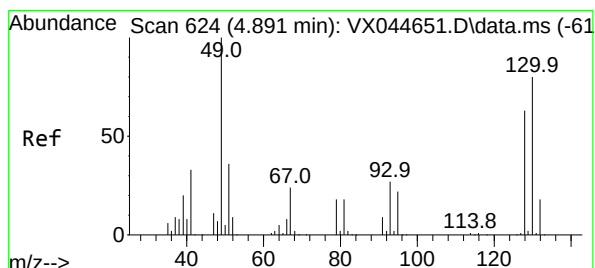
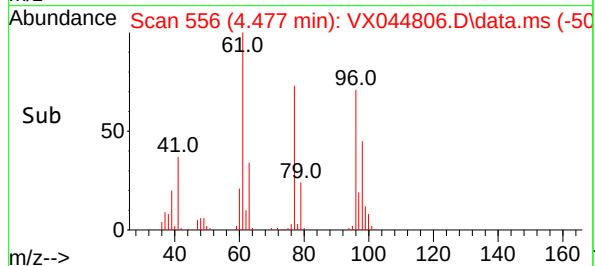
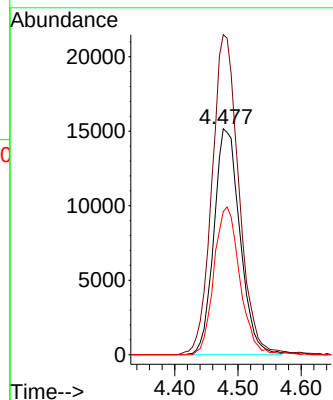
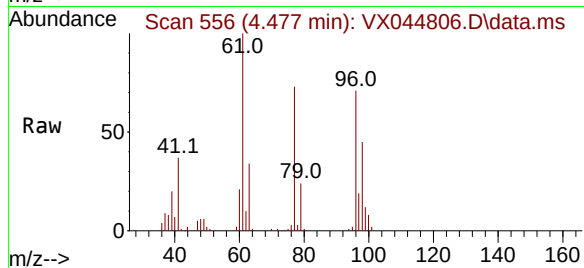
98 64.7 0.0 130.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#28

Bromochloromethane

Concen: 21.723 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.006 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

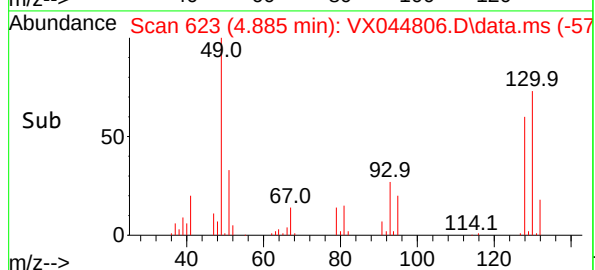
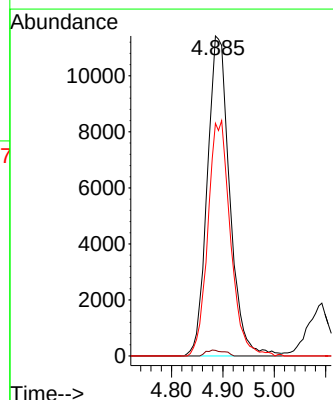
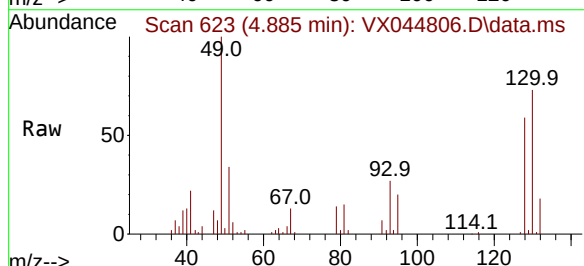
Tgt Ion: 49 Resp: 34671

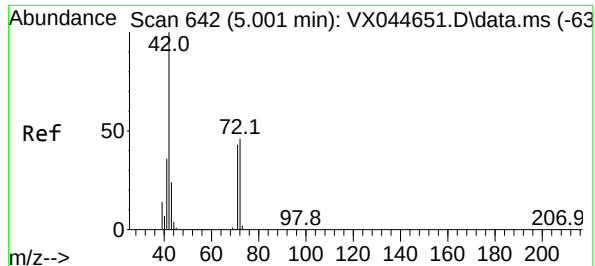
Ion Ratio Lower Upper

49 100

129 1.5 0.0 4.4

130 73.8 63.4 95.2





#29

Tetrahydrofuran

Concen: 110.715 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 42 Resp: 92160

Ion Ratio Lower Upper

42 100

72 46.9 38.2 57.4

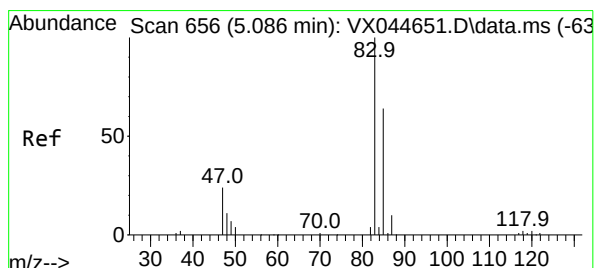
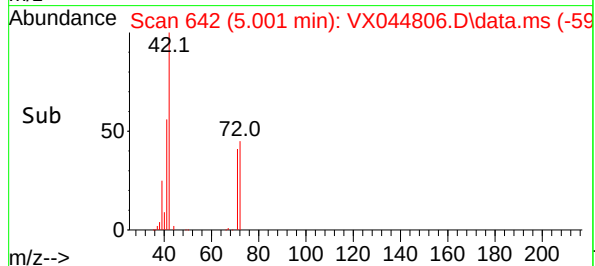
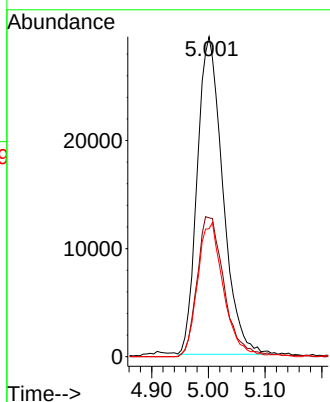
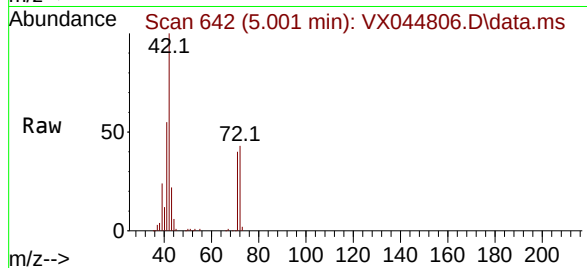
71 42.8 35.3 52.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#30

Chloroform

Concen: 19.507 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX044806.D

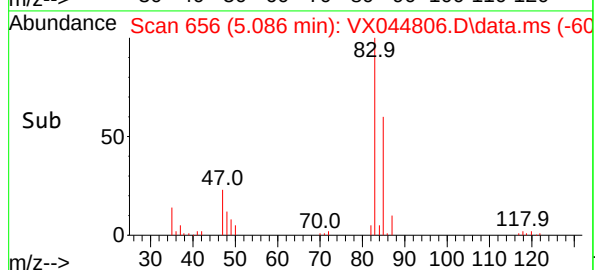
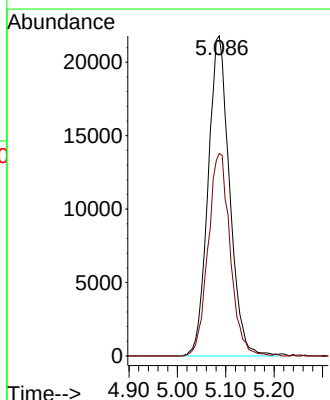
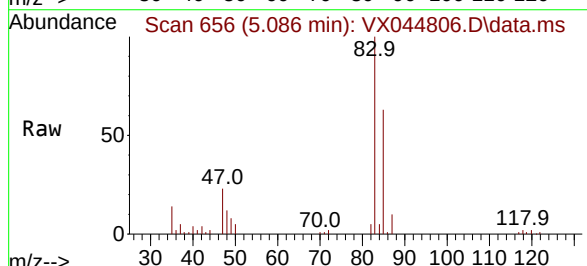
Acq: 03 Feb 2025 11:32

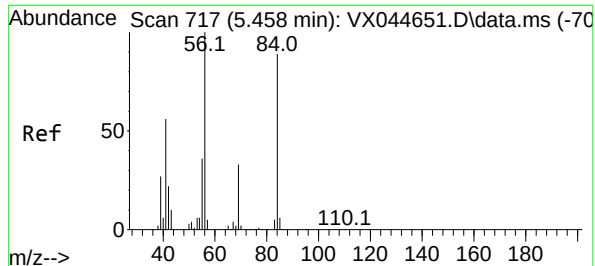
Tgt Ion: 83 Resp: 67238

Ion Ratio Lower Upper

83 100

85 63.2 51.2 76.8





#31

Cyclohexane

Concen: 22.118 ug/l

RT: 5.464 min Scan# 718

Delta R.T. 0.006 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 56 Resp: 61100

Ion Ratio Lower Upper

56 100

69 31.6 26.8 40.2

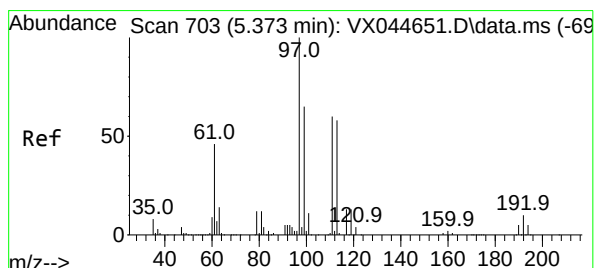
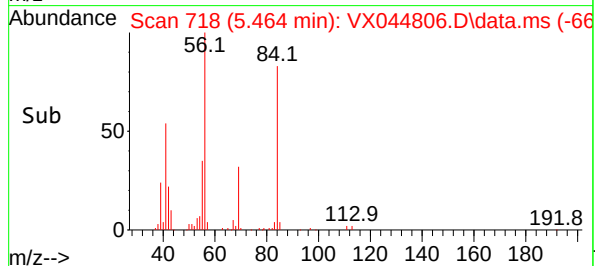
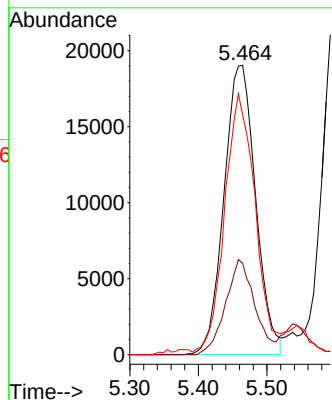
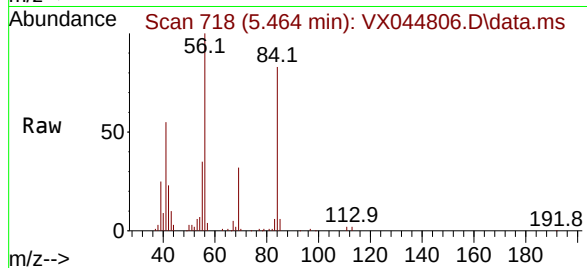
84 81.1 71.0 106.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#32

1,1,1-Trichloroethane

Concen: 17.827 ug/l

RT: 5.373 min Scan# 703

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

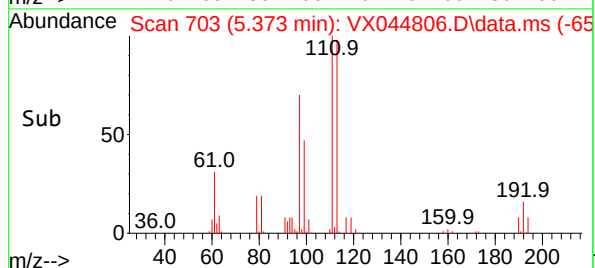
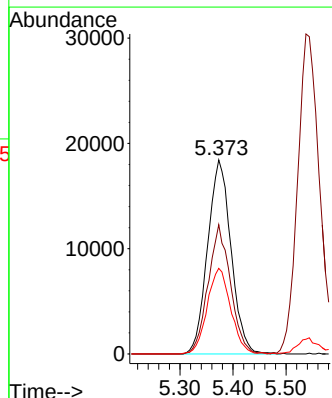
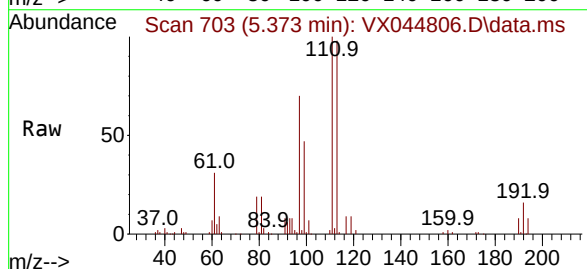
Tgt Ion: 97 Resp: 56489

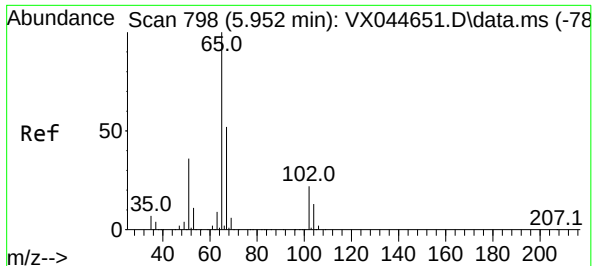
Ion Ratio Lower Upper

97 100

99 63.6 51.6 77.4

61 44.2 35.6 53.4





#33

1,2-Dichloroethane-d4

Concen: 43.446 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 65 Resp: 9531

Ion Ratio Lower Upper

65 100

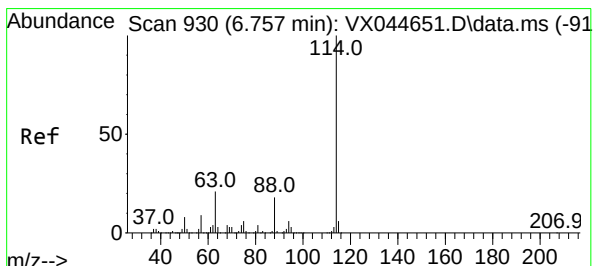
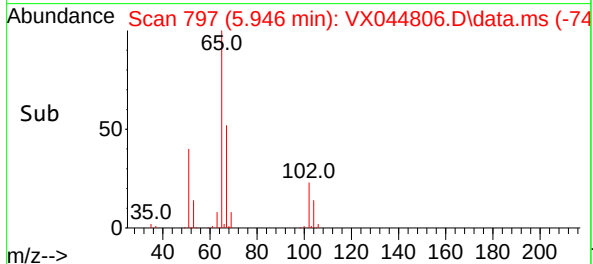
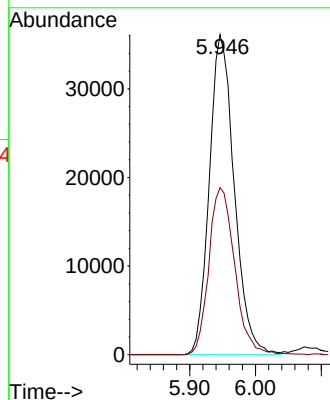
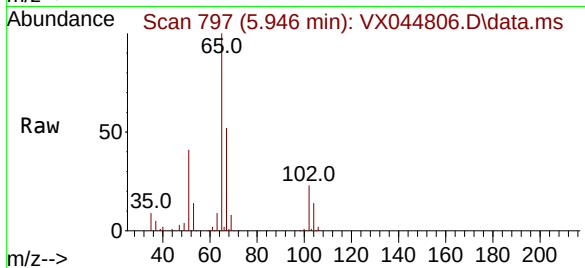
67 54.1 0.0 103.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

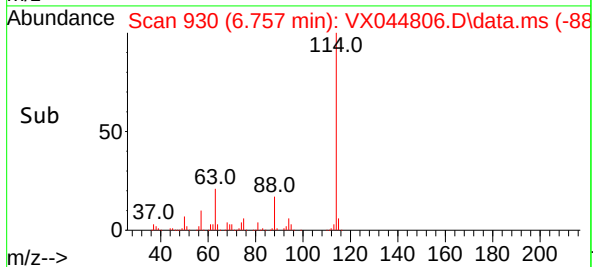
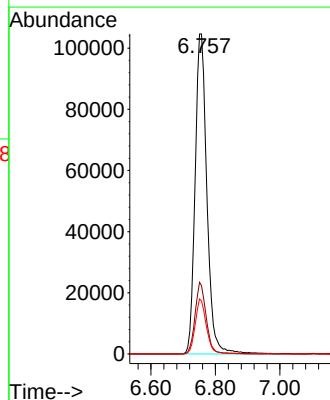
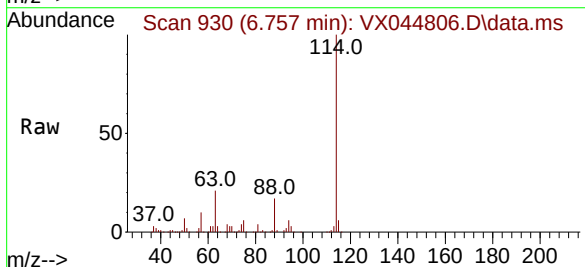
Tgt Ion:114 Resp: 265785

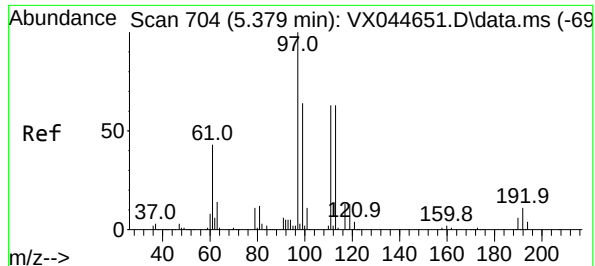
Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.0

88 16.6 0.0 35.4





#35

Dibromofluoromethane

Concen: 46.951 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX044806.D

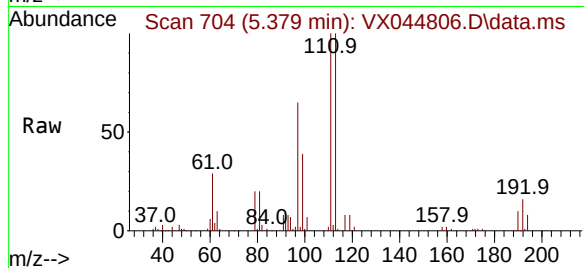
Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01



Tgt Ion:113 Resp: 79270

Ion Ratio Lower Upper

113 100

111 103.8 81.6 122.4

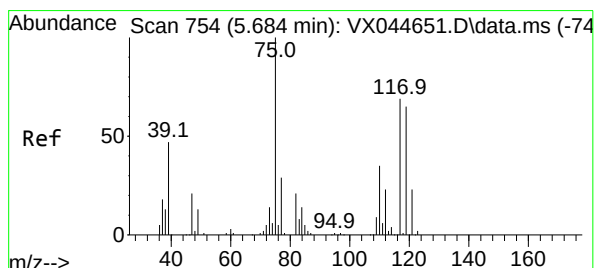
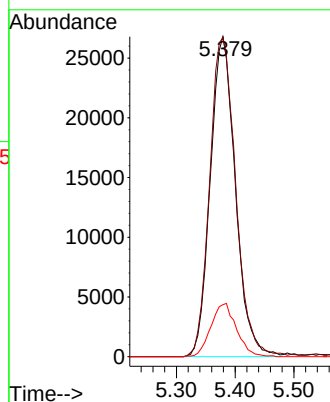
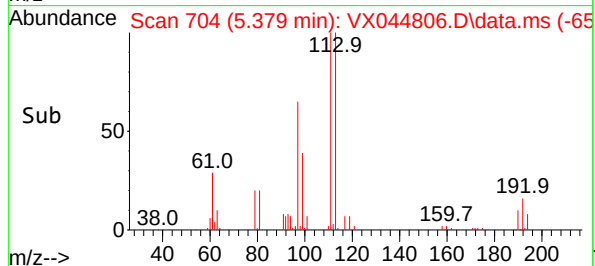
192 17.0 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#36

1,1-Dichloropropene

Concen: 19.910 ug/l

RT: 5.684 min Scan# 754

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

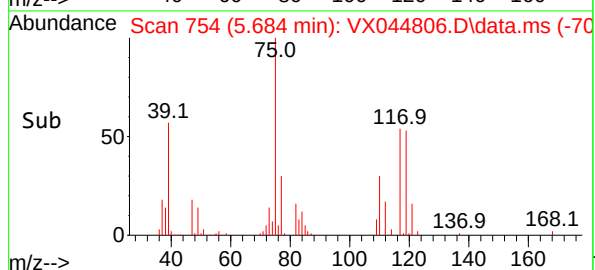
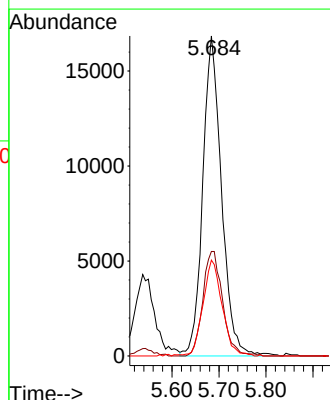
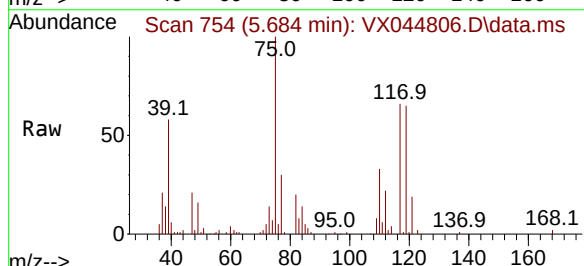
Tgt Ion: 75 Resp: 46798

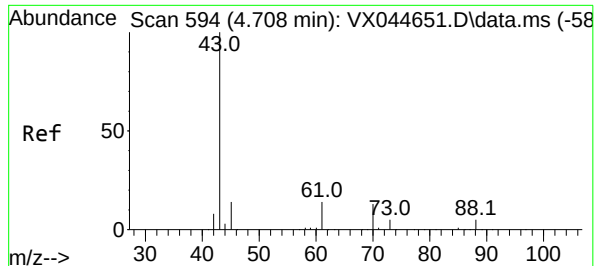
Ion Ratio Lower Upper

75 100

110 34.3 17.9 53.8

77 30.7 24.5 36.7





#37

Ethyl Acetate

Concen: 22.502 ug/l

RT: 4.708 min Scan# 594

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 43 Resp: 56324

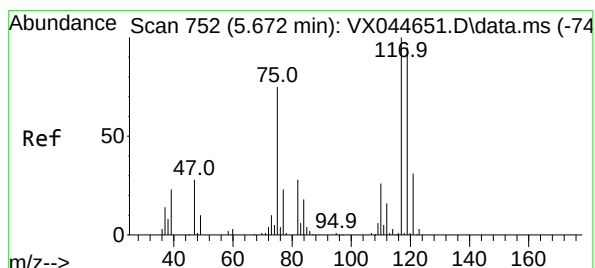
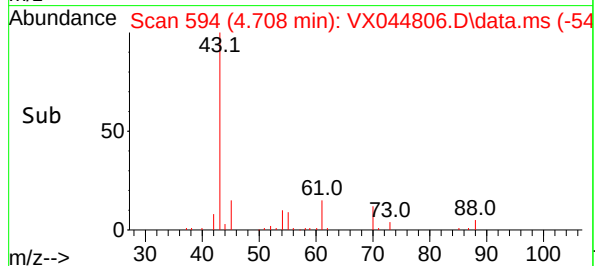
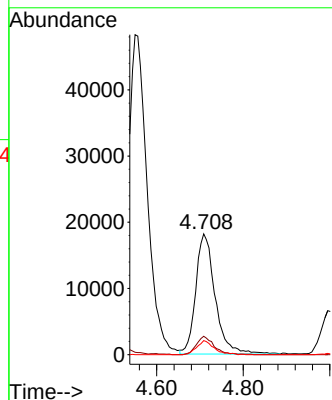
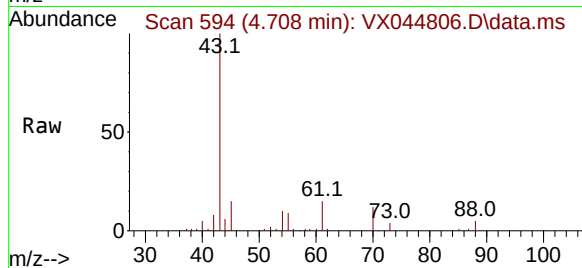
Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.9	16.3
70	10.4	10.1	15.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#38

Carbon Tetrachloride

Concen: 17.728 ug/l

RT: 5.666 min Scan# 751

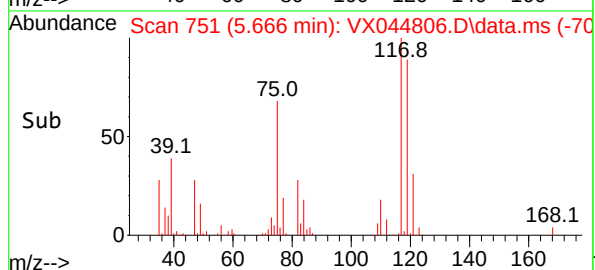
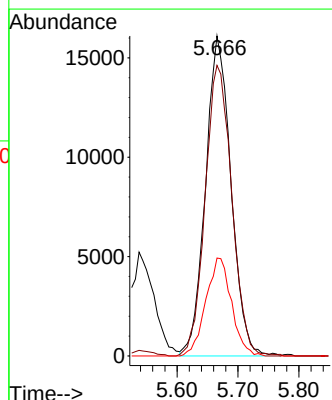
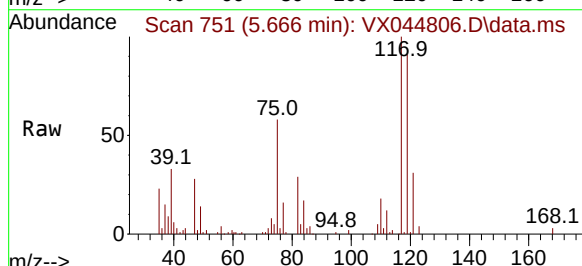
Delta R.T. -0.006 min

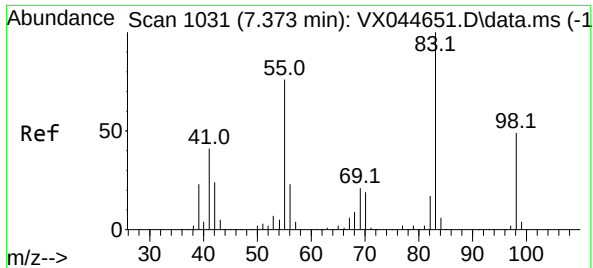
Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Tgt Ion: 117 Resp: 46869

Ion	Ratio	Lower	Upper
117	100		
119	90.3	76.0	114.0
121	30.6	24.6	36.8





#39

Methylcyclohexane

Concen: 20.341 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 83 Resp: 6346

Ion Ratio Lower Upper

83 100

55 73.6 60.5 90.7

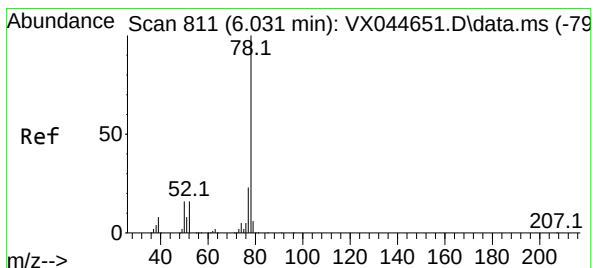
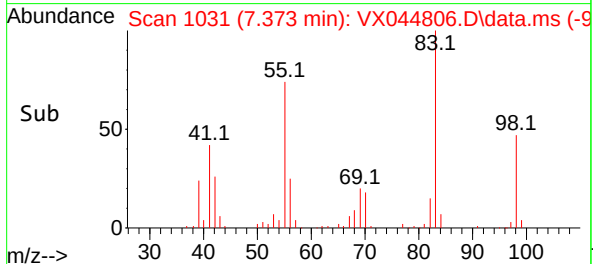
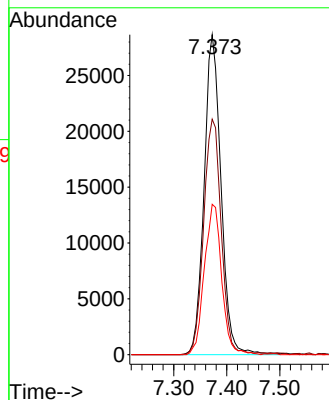
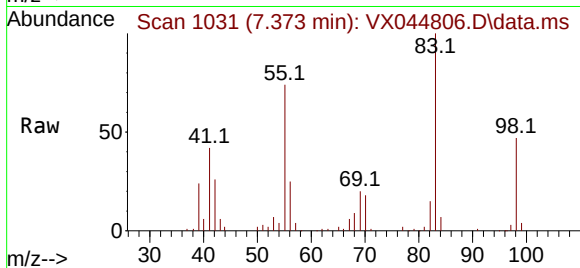
98 47.0 39.0 58.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#40

Benzene

Concen: 20.794 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX044806.D

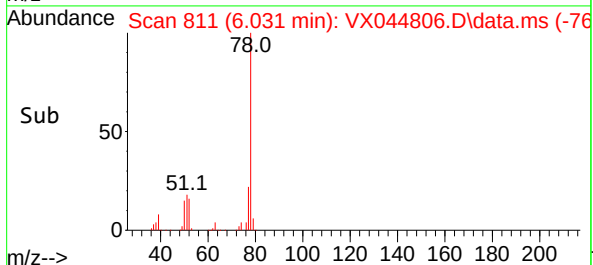
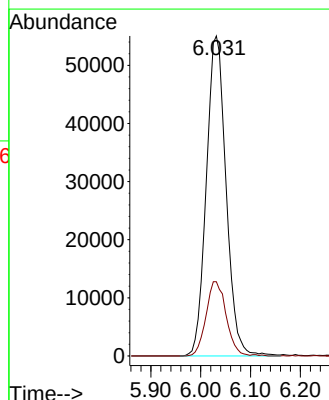
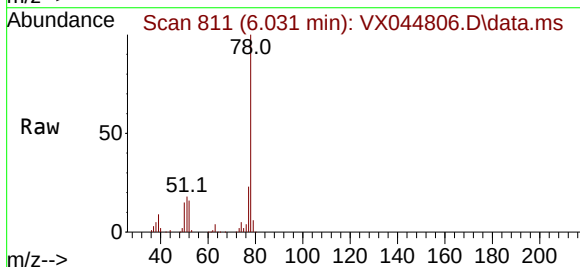
Acq: 03 Feb 2025 11:32

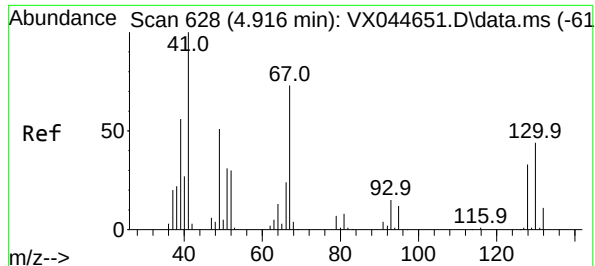
Tgt Ion: 78 Resp: 151452

Ion Ratio Lower Upper

78 100

77 23.2 18.7 28.1





#41

Methacrylonitrile

Concen: 20.400 ug/l

RT: 4.910 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 41 Resp: 29754

Ion Ratio Lower Upper

41 100

39 55.0 44.4 66.6

67 78.6 60.6 90.8

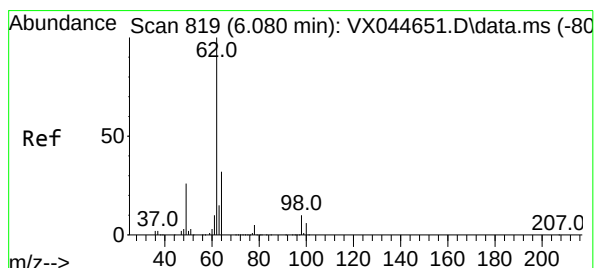
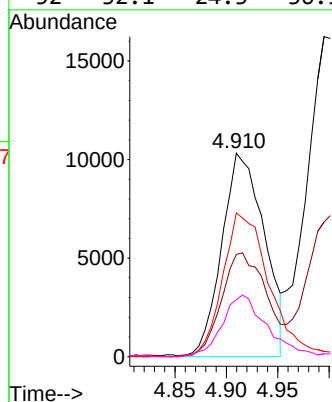
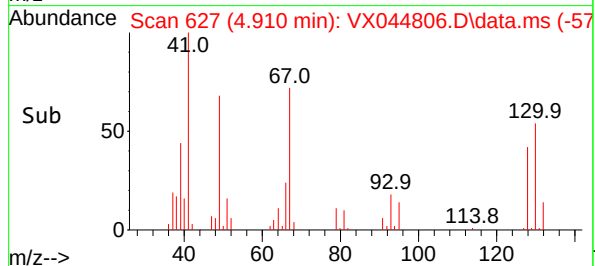
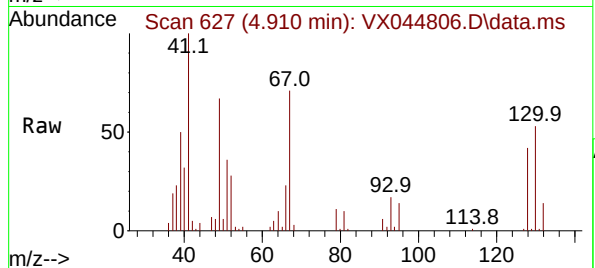
52 32.1 24.3 36.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#42

1,2-Dichloroethane

Concen: 18.303 ug/l

RT: 6.080 min Scan# 819

Delta R.T. 0.000 min

Lab File: VX044806.D

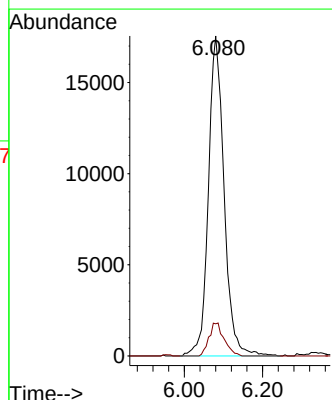
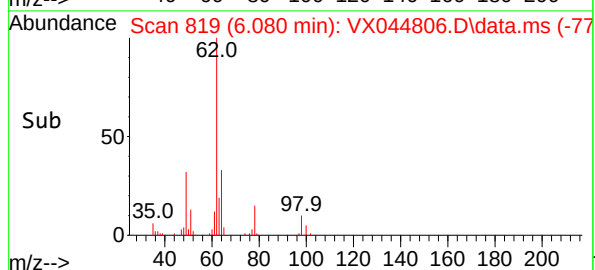
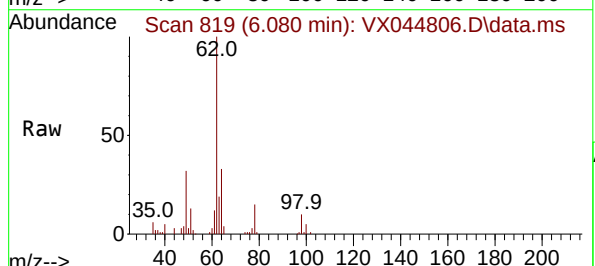
Acq: 03 Feb 2025 11:32

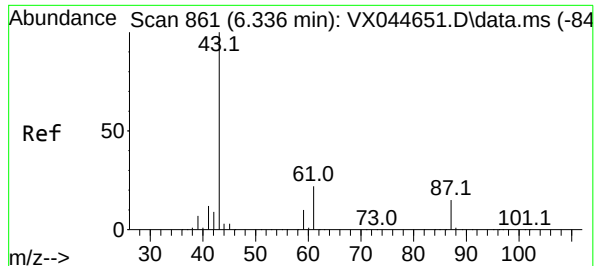
Tgt Ion: 62 Resp: 48655

Ion Ratio Lower Upper

62 100

98 10.0 0.0 19.4





#43

Isopropyl Acetate

Concen: 20.042 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 43 Resp: 9228

Ion Ratio Lower Upper

43 100

61 21.1 16.6 24.8

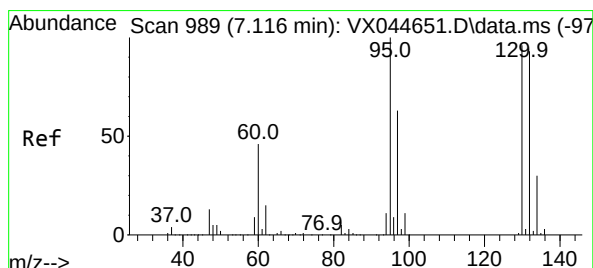
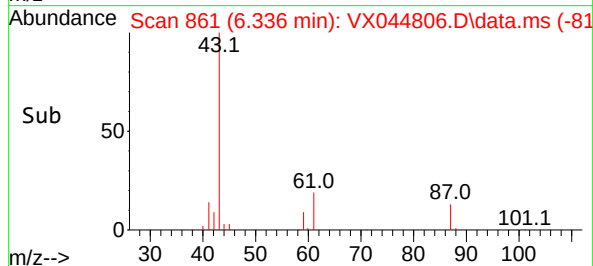
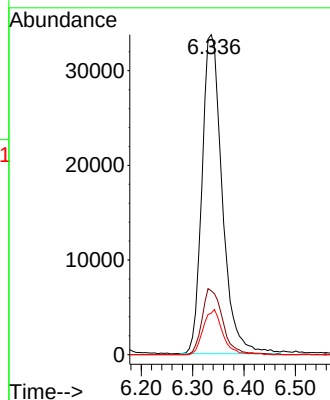
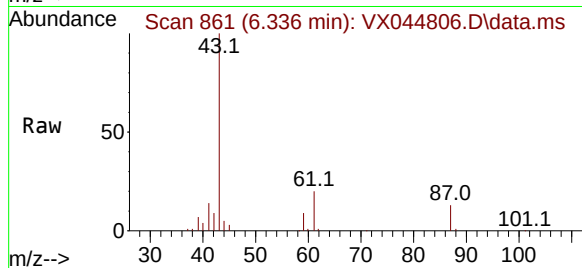
87 13.5 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#44

Trichloroethene

Concen: 20.006 ug/l

RT: 7.117 min Scan# 989

Delta R.T. 0.000 min

Lab File: VX044806.D

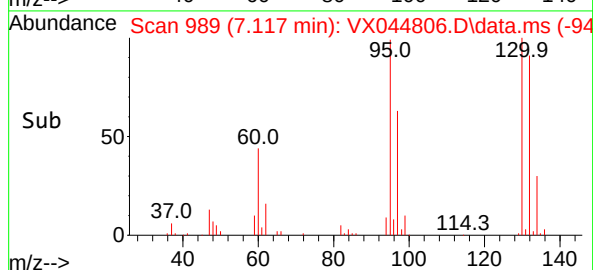
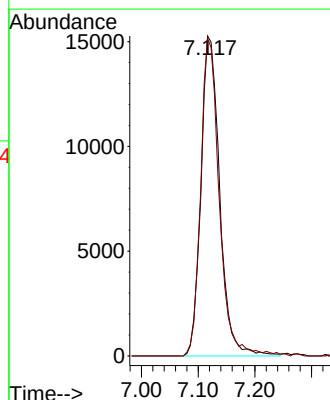
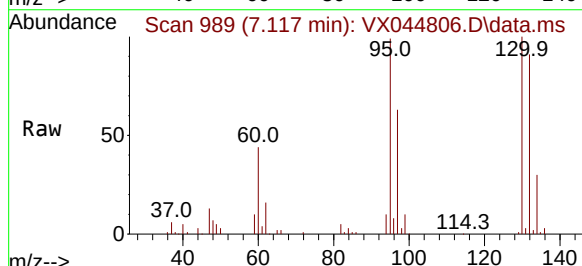
Acq: 03 Feb 2025 11:32

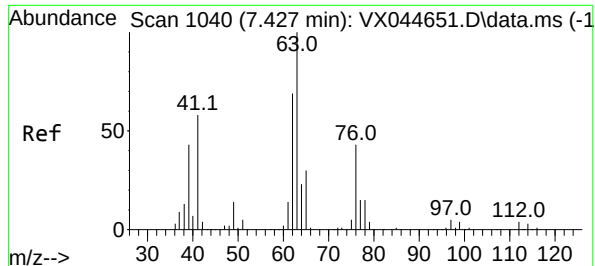
Tgt Ion:130 Resp: 35030

Ion Ratio Lower Upper

130 100

95 99.3 0.0 208.2





#45

1,2-Dichloropropane

Concen: 21.111 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 63 Resp: 38704

Ion Ratio Lower Upper

63 100

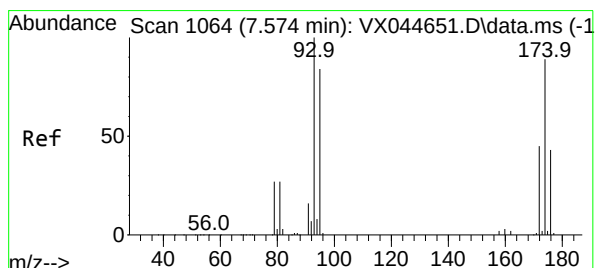
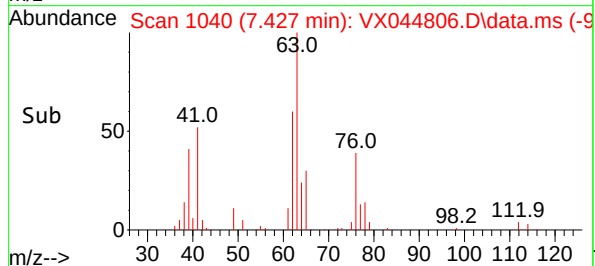
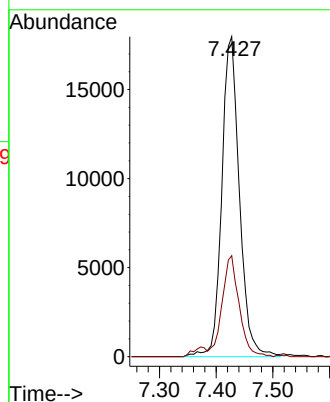
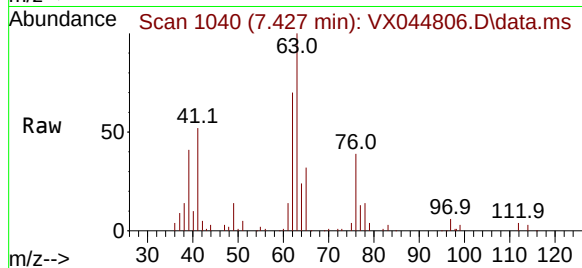
65 31.6 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#46

Dibromomethane

Concen: 18.834 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

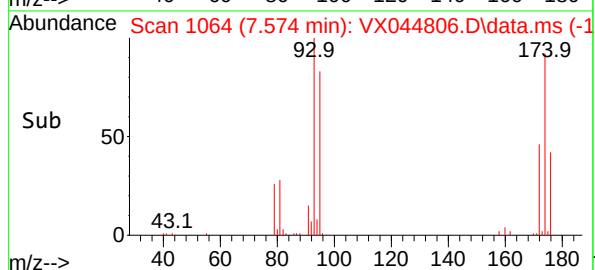
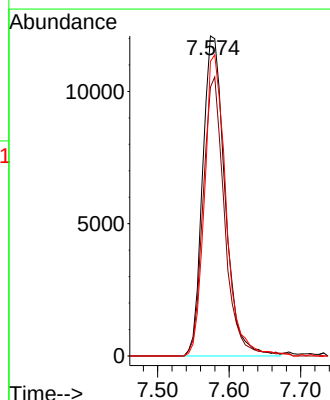
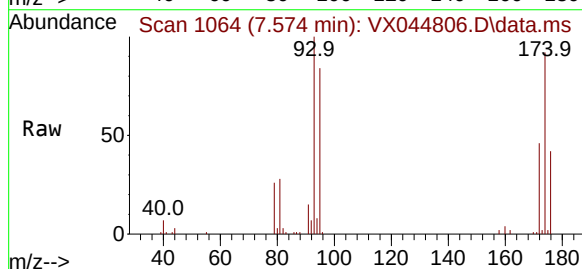
Tgt Ion: 93 Resp: 26286

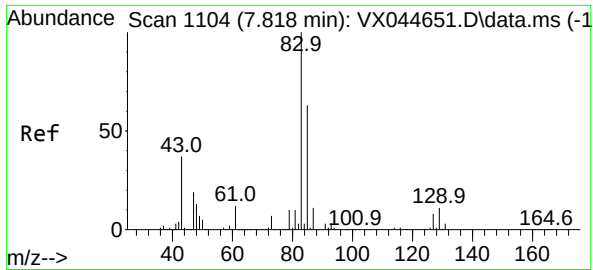
Ion Ratio Lower Upper

93 100

95 83.5 66.4 99.6

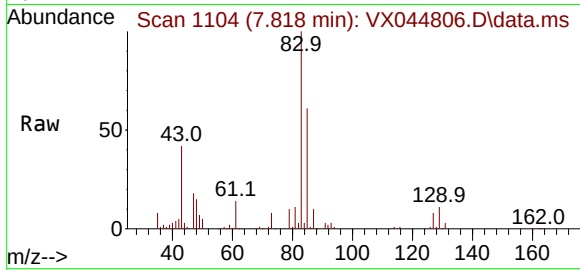
174 90.7 72.0 108.0





#47
Bromodichloromethane
Concen: 18.675 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

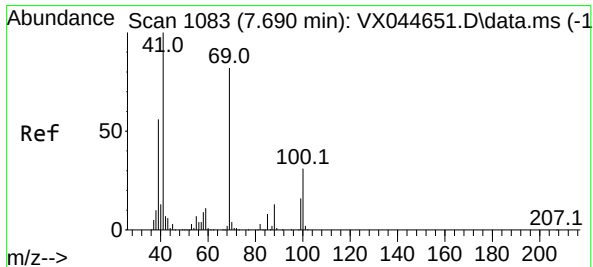
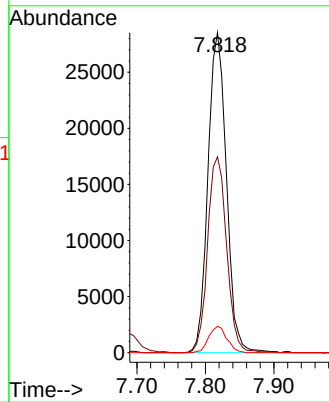
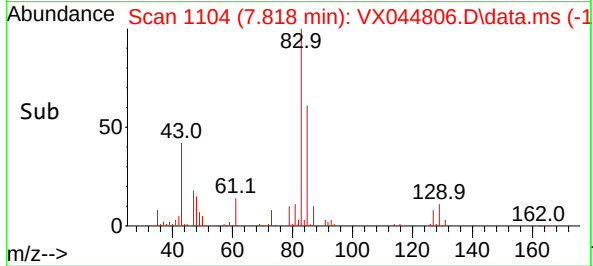
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



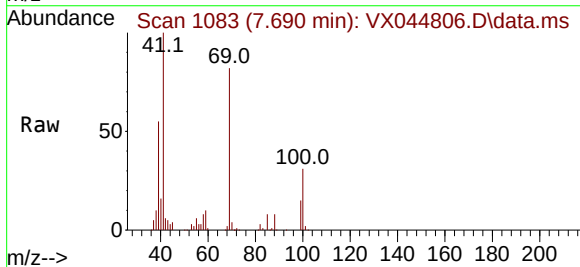
Tgt Ion: 83 Resp: 53452
Ion Ratio Lower Upper
83 100
85 61.2 50.1 75.1
127 8.3 6.5 9.7

Manual Integrations
APPROVED

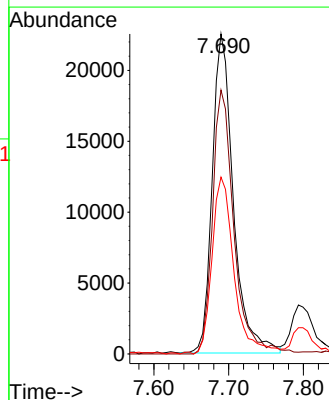
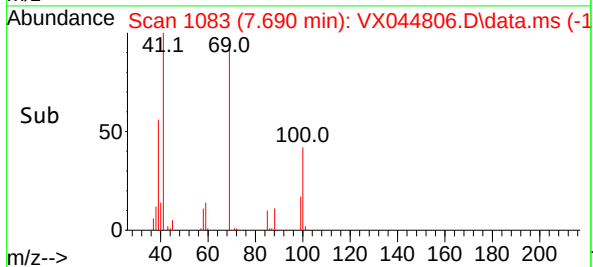
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

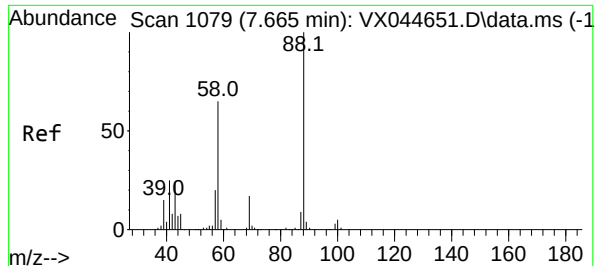


#48
Methyl methacrylate
Concen: 20.791 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32



Tgt Ion: 41 Resp: 44439
Ion Ratio Lower Upper
41 100
69 83.5 66.8 100.2
39 57.9 47.4 71.0





#49

1,4-Dioxane

Concen: 440.493 ug/l

RT: 7.659 min Scan# 1079

Delta R.T. -0.006 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 88 Resp: 1964

Ion Ratio Lower Upper

88 100

43 34.3 27.0 40.4

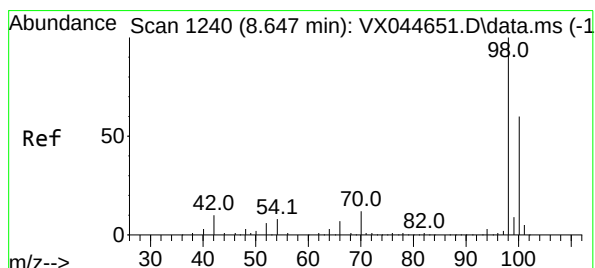
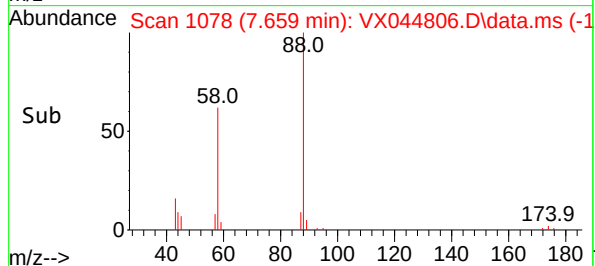
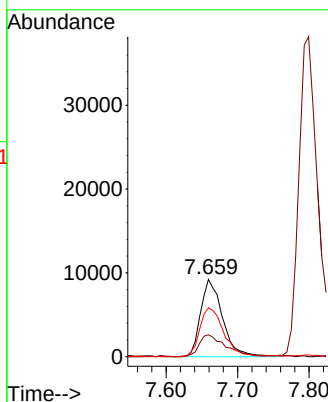
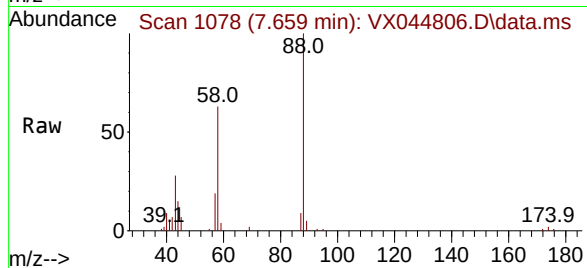
58 68.4 55.8 83.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#50

Toluene-d8

Concen: 50.203 ug/l

RT: 8.641 min Scan# 1239

Delta R.T. -0.006 min

Lab File: VX044806.D

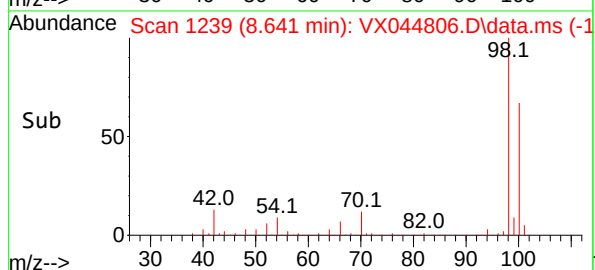
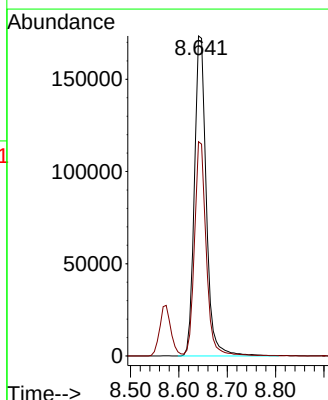
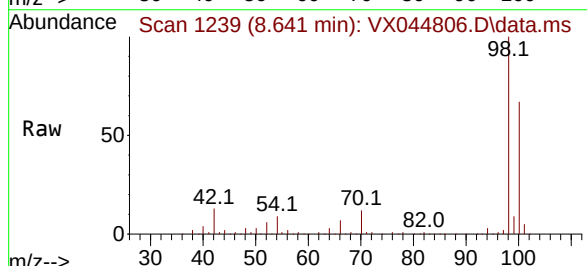
Acq: 03 Feb 2025 11:32

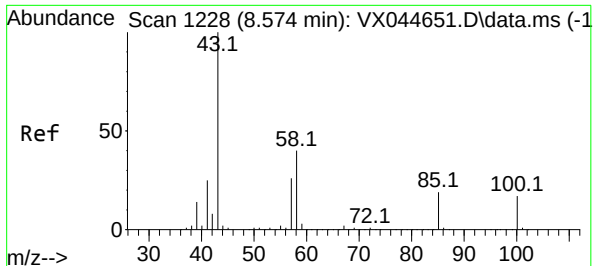
Tgt Ion: 98 Resp: 295567

Ion Ratio Lower Upper

98 100

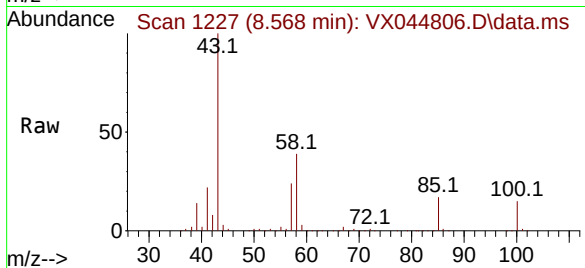
100 65.9 53.2 79.8





#51
4-Methyl-2-Pentanone
Concen: 114.726 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. -0.006 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

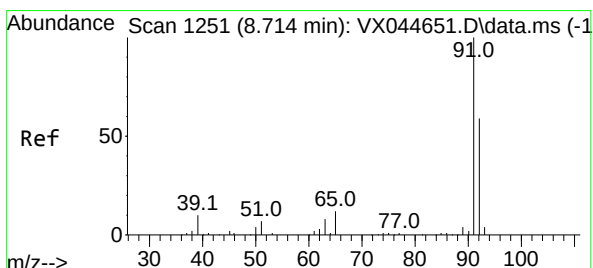
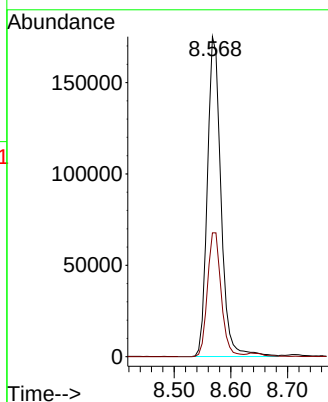
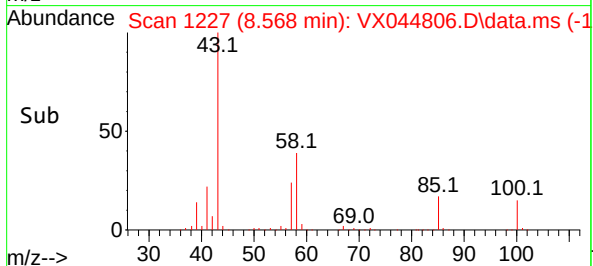
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion: 43 Resp: 291930
Ion Ratio Lower Upper
43 100
58 39.1 31.9 47.9

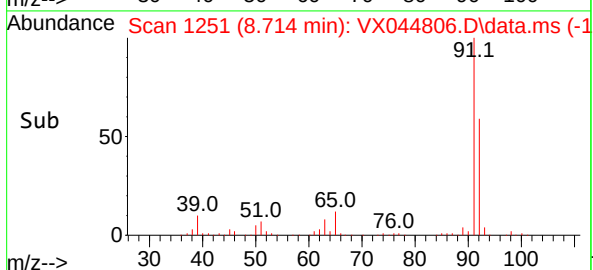
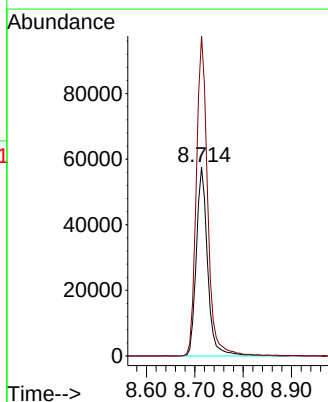
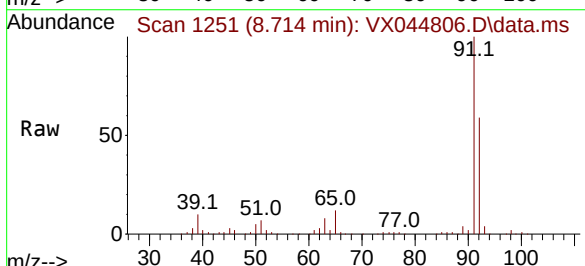
Manual Integrations
APPROVED

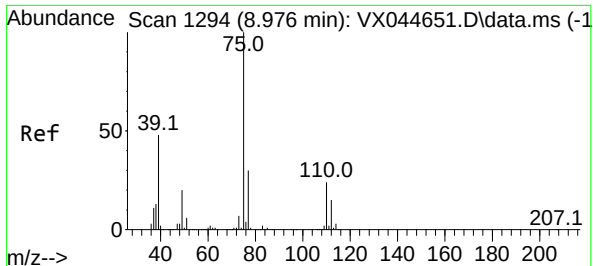
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#52
Toluene
Concen: 20.850 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

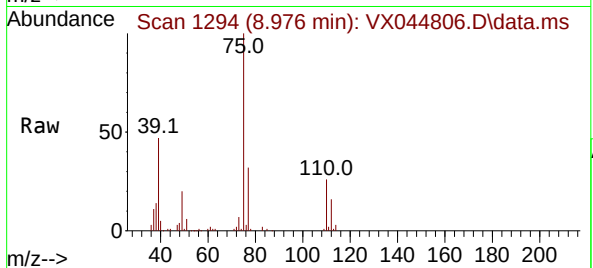
Tgt Ion: 92 Resp: 92946
Ion Ratio Lower Upper
92 100
91 170.3 135.7 203.5





#53
t-1,3-Dichloropropene
Concen: 18.783 ug/l
RT: 8.976 min Scan# 1294
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

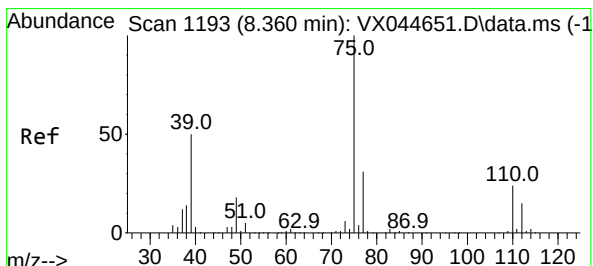
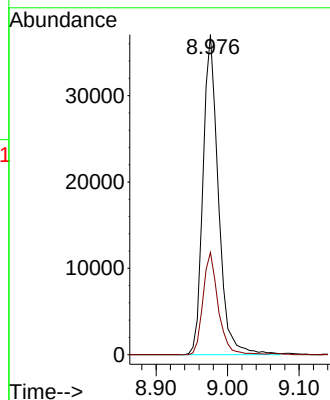
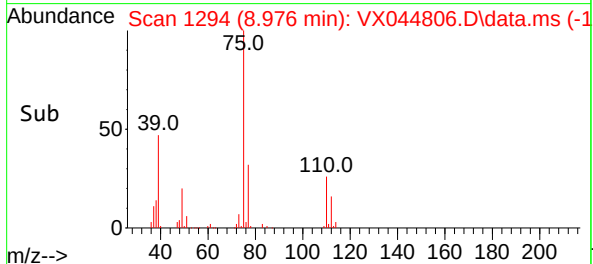
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion: 75 Resp: 5554
Ion Ratio Lower Upper
75 100
77 32.0 24.4 36.6

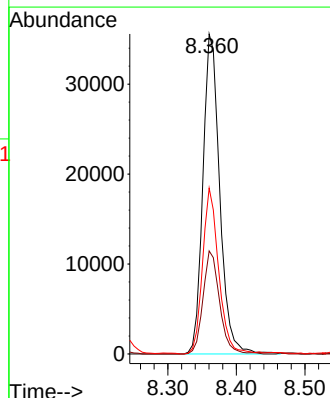
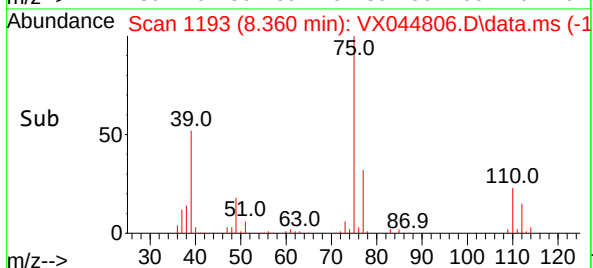
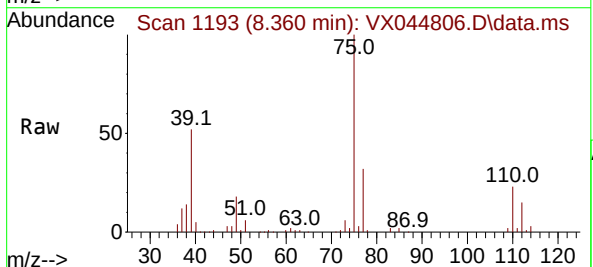
Manual Integrations
APPROVED

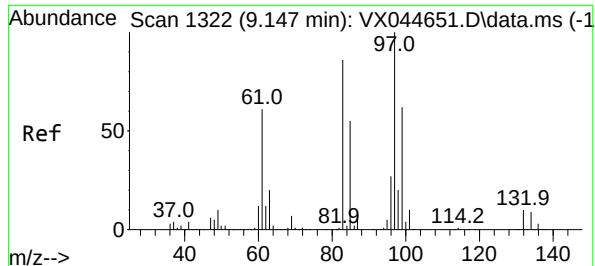
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#54
cis-1,3-Dichloropropene
Concen: 18.988 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Tgt Ion: 75 Resp: 60882
Ion Ratio Lower Upper
75 100
77 32.2 25.1 37.7
39 51.9 40.3 60.5





#55

1,1,2-Trichloroethane

Concen: 20.850 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 97 Resp: 3760

Ion Ratio Lower Upper

97 100

83 92.3 68.8 103.2

85 57.1 43.7 65.5

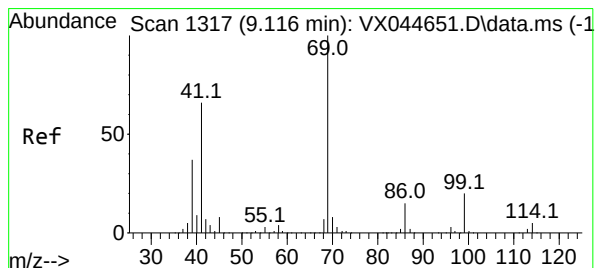
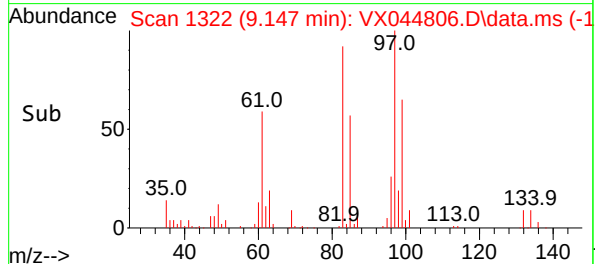
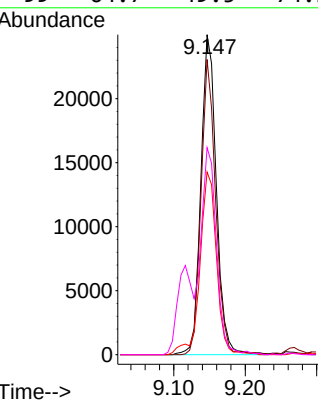
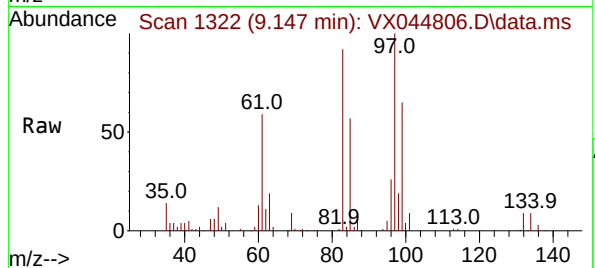
99 64.7 49.5 74.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#56

Ethyl methacrylate

Concen: 20.027 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

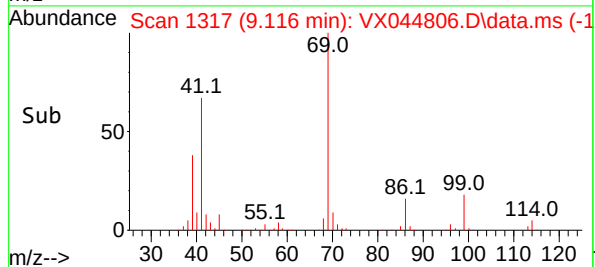
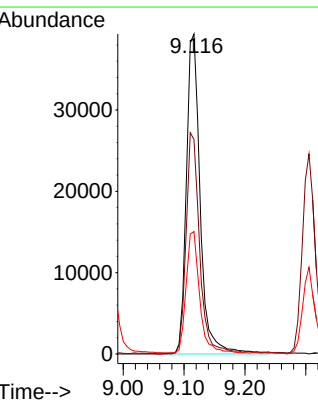
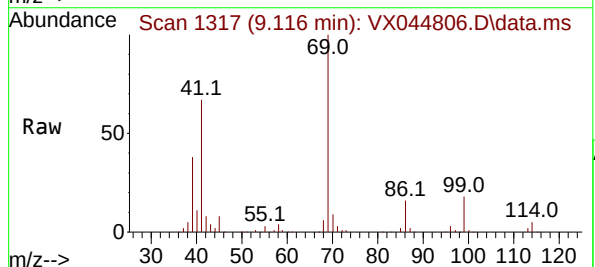
Tgt Ion: 69 Resp: 62106

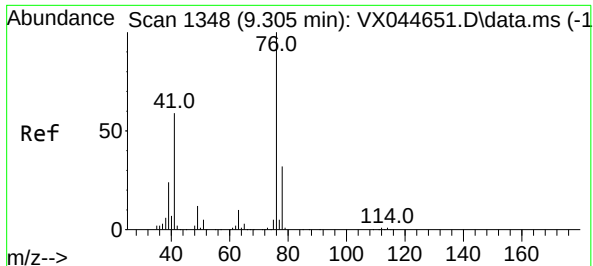
Ion Ratio Lower Upper

69 100

41 68.7 53.2 79.8

39 37.2 30.2 45.2





#57

1,3-Dichloropropane

Concen: 20.776 ug/l

RT: 9.305 min Scan# 11348

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 76 Resp: 63810

Ion Ratio Lower Upper

76 100

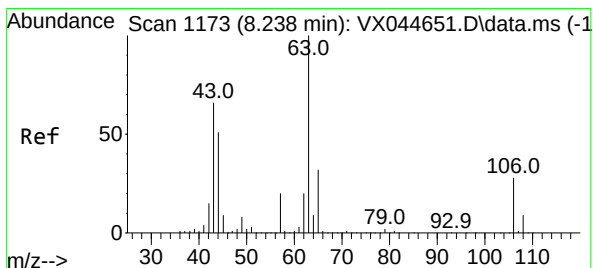
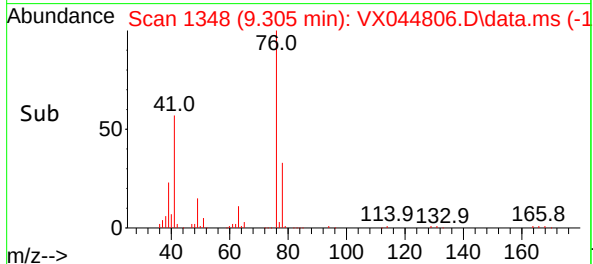
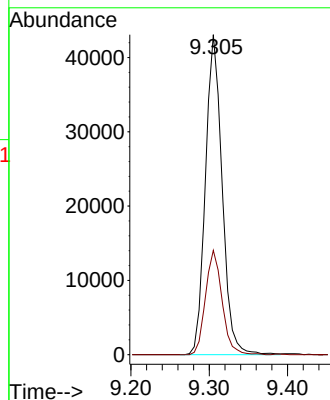
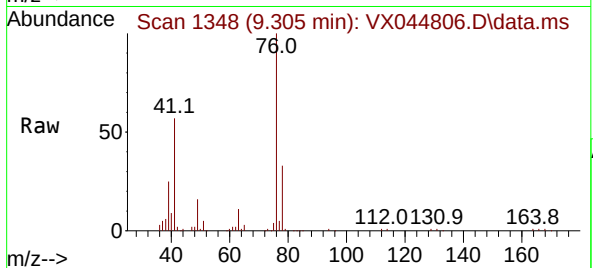
78 32.4 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#58

2-Chloroethyl Vinyl ether

Concen: 90.525 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX044806.D

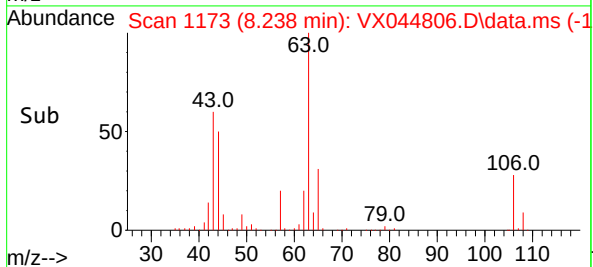
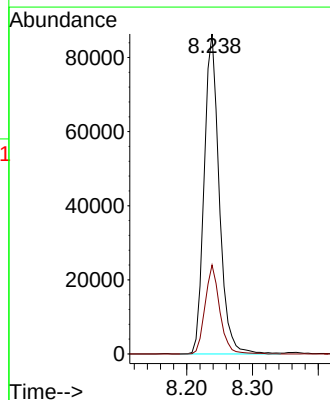
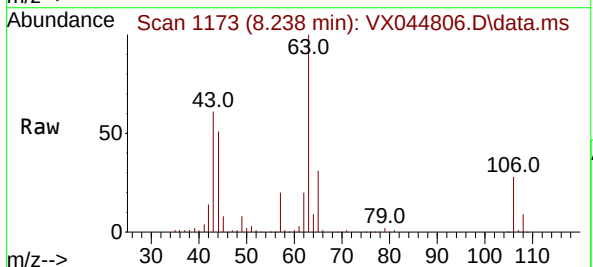
Acq: 03 Feb 2025 11:32

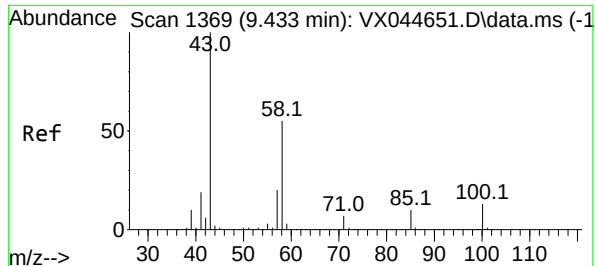
Tgt Ion: 63 Resp: 137824

Ion Ratio Lower Upper

63 100

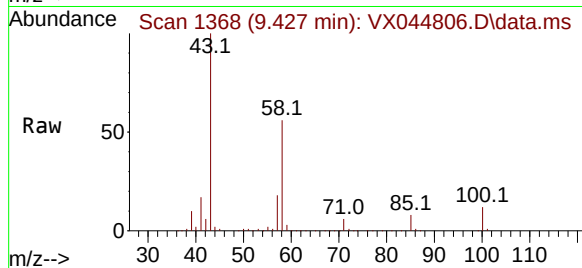
106 27.1 23.0 34.6





#59
2-Hexanone
Concen: 114.329 ug/l
RT: 9.427 min Scan# 1368
Delta R.T. -0.006 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

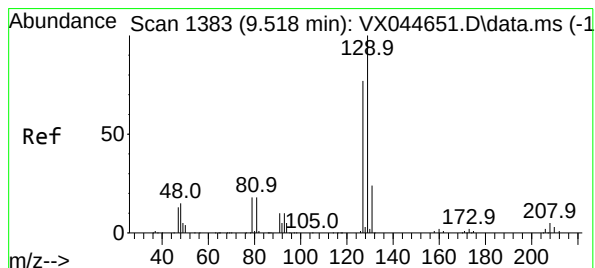
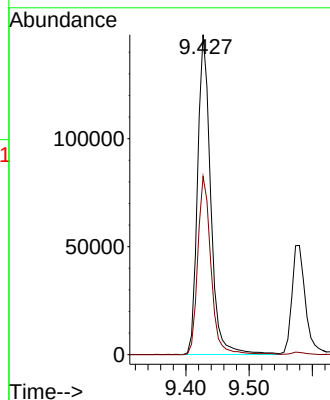
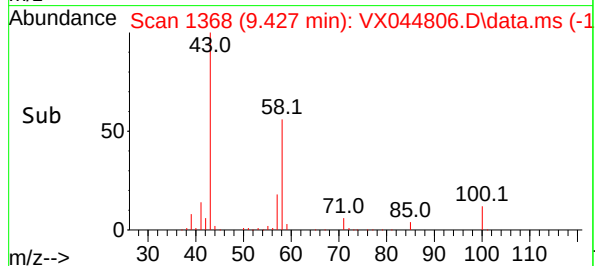
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion: 43 Resp: 214034
Ion Ratio Lower Upper
43 100
58 55.9 27.8 83.3

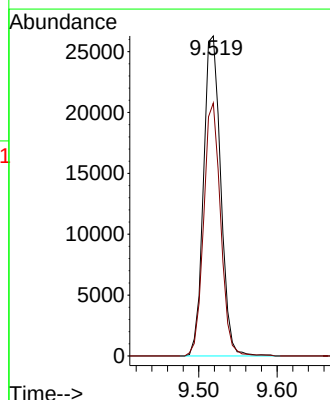
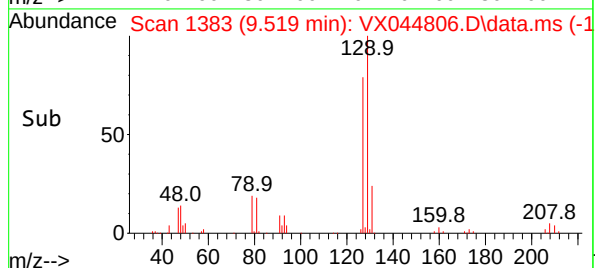
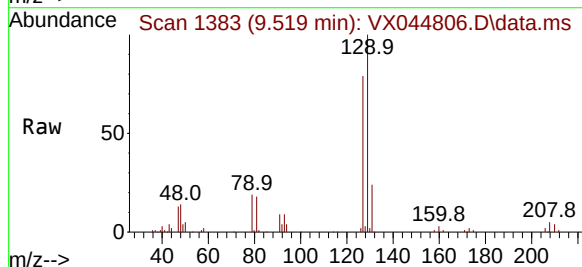
Manual Integrations
APPROVED

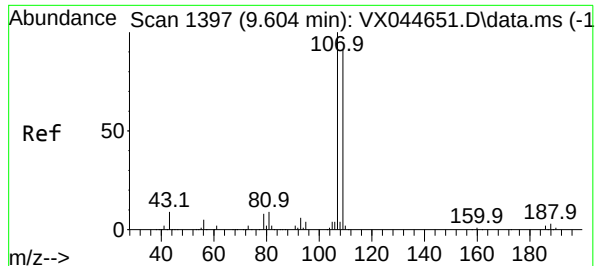
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#60
Dibromochloromethane
Concen: 18.922 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

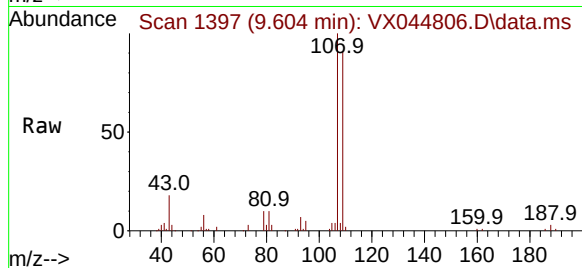
Tgt Ion:129 Resp: 40056
Ion Ratio Lower Upper
129 100
127 77.7 38.5 115.5





#61
1,2-Dibromoethane
Concen: 19.781 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

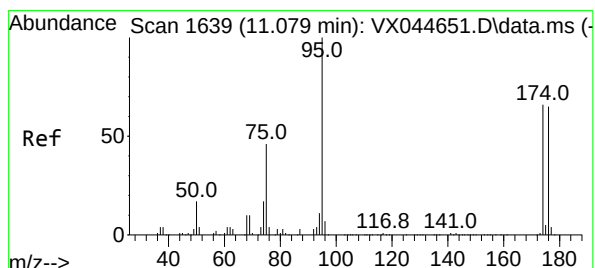
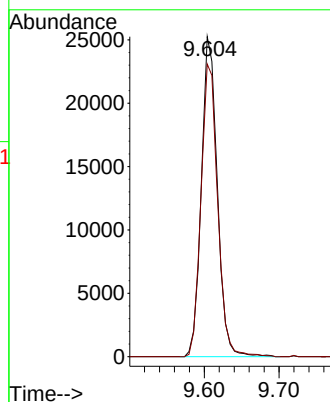
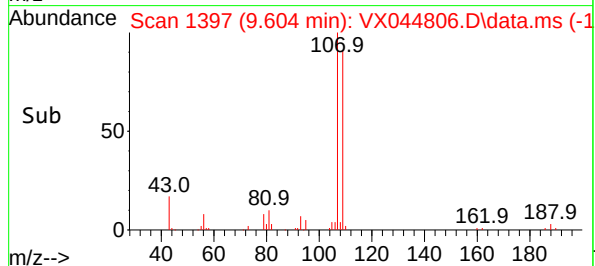
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion:107 Resp: 37389
Ion Ratio Lower Upper
107 100
109 95.7 75.3 112.9

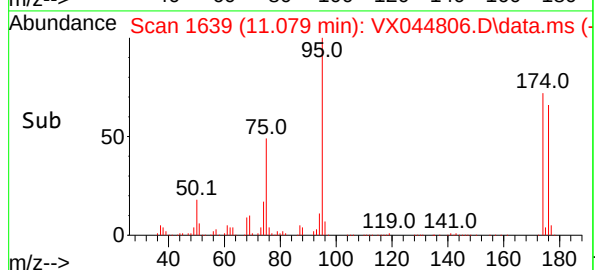
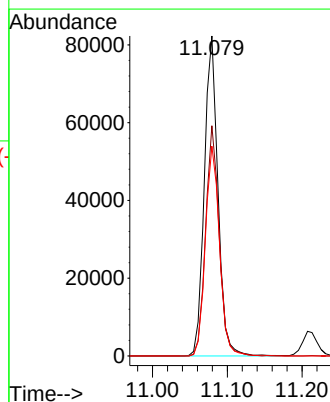
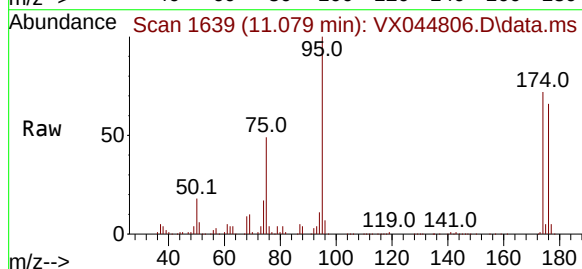
Manual Integrations
APPROVED

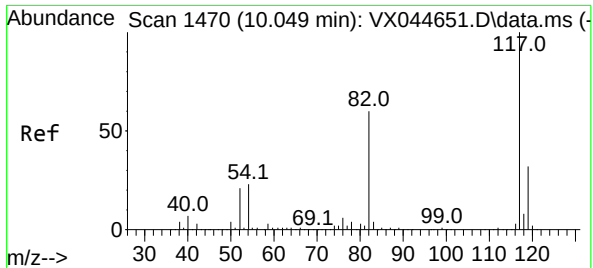
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#62
4-Bromofluorobenzene
Concen: 47.570 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

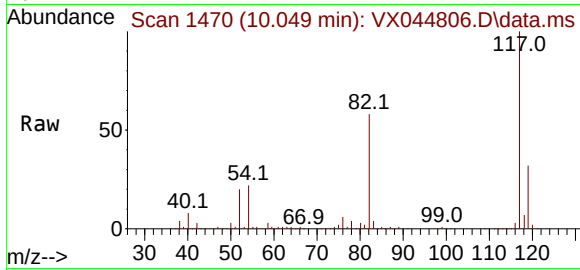
Tgt Ion: 95 Resp: 104405
Ion Ratio Lower Upper
95 100
174 71.3 0.0 133.0
176 67.7 0.0 129.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

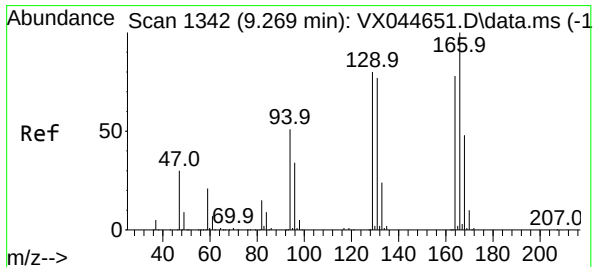
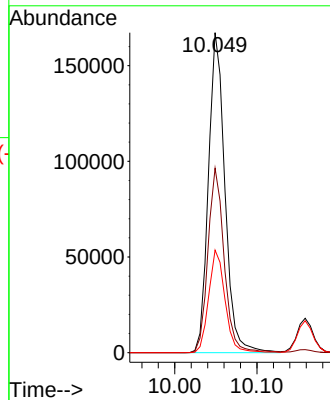
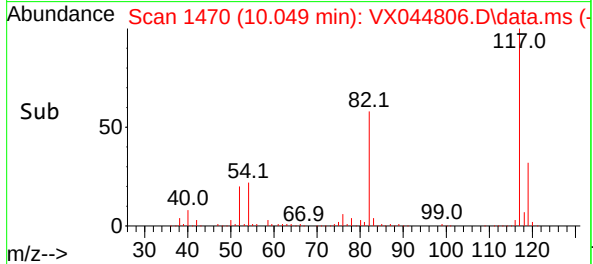
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



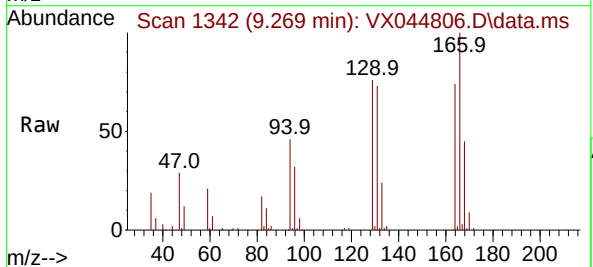
Tgt Ion:117 Resp: 233310
Ion Ratio Lower Upper
117 100
82 57.7 47.6 71.4
119 32.0 25.4 38.2

Manual Integrations
APPROVED

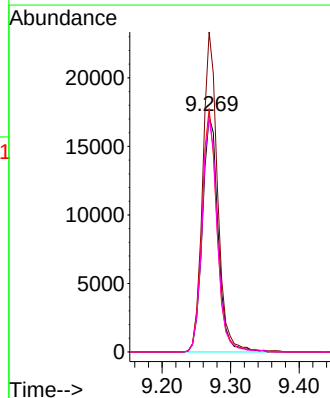
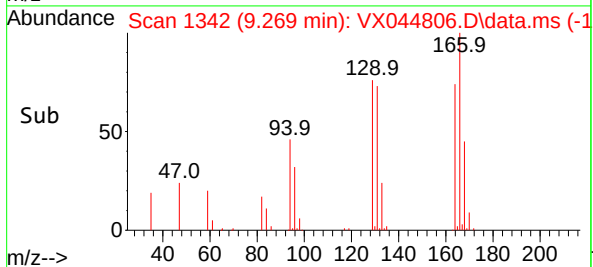
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

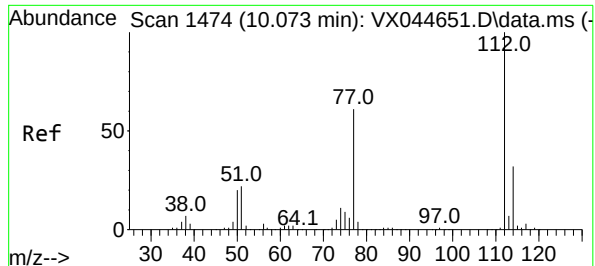


#64
Tetrachloroethene
Concen: 18.701 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32



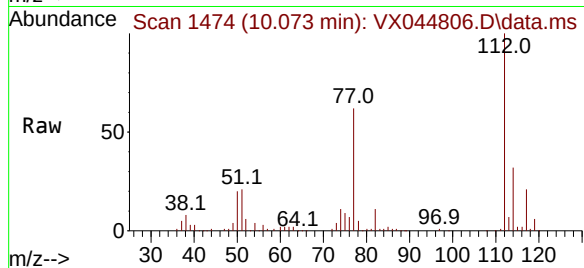
Tgt Ion:164 Resp: 27398
Ion Ratio Lower Upper
164 100
166 135.8 102.0 153.0
129 103.3 81.1 121.7
131 99.2 79.0 118.6





#65
Chlorobenzene
Concen: 20.122 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

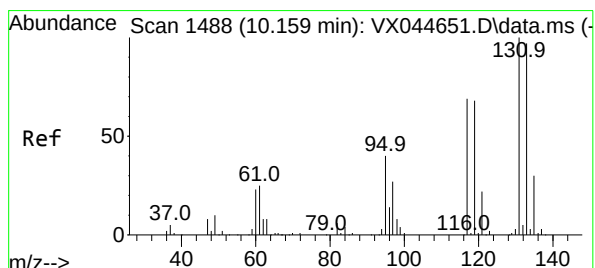
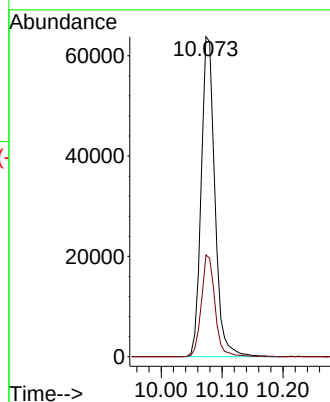
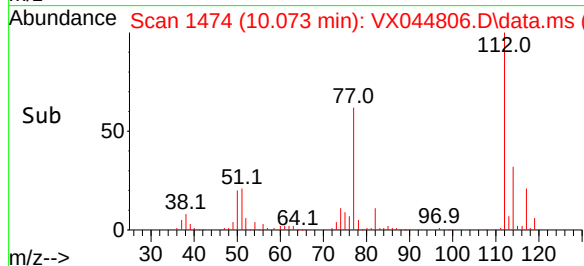
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



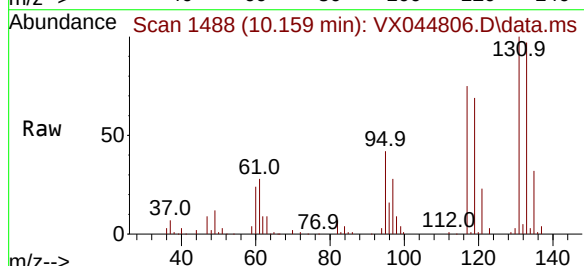
Tgt Ion:112 Resp: 9972
Ion Ratio Lower Upper
112 100
114 31.8 25.3 37.9

Manual Integrations
APPROVED

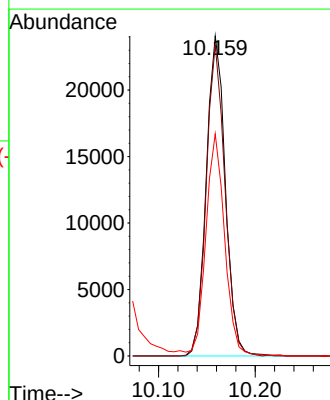
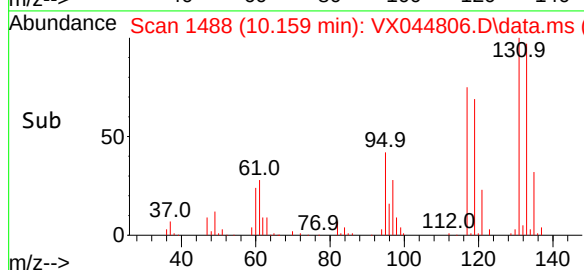
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

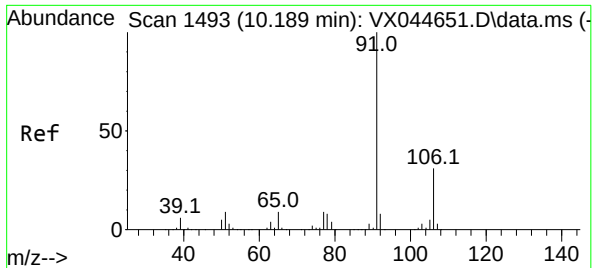


#66
1,1,1,2-Tetrachloroethane
Concen: 18.388 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32



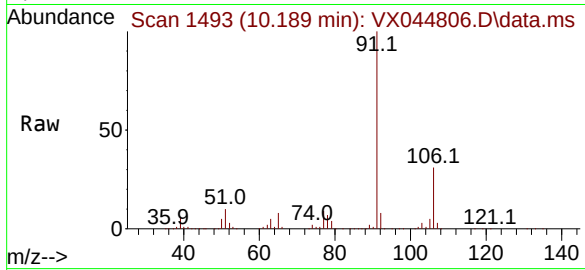
Tgt Ion:131 Resp: 33117
Ion Ratio Lower Upper
131 100
133 95.3 47.8 143.3
119 68.3 33.4 100.2





#67
Ethyl Benzene
Concen: 20.147 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

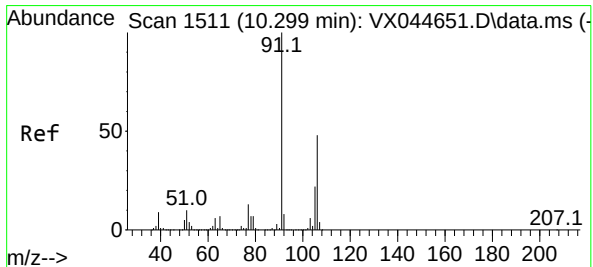
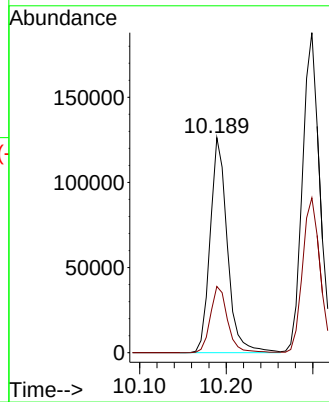
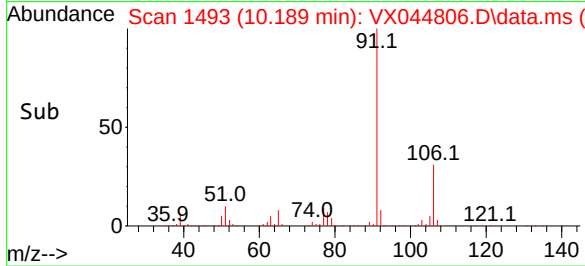
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



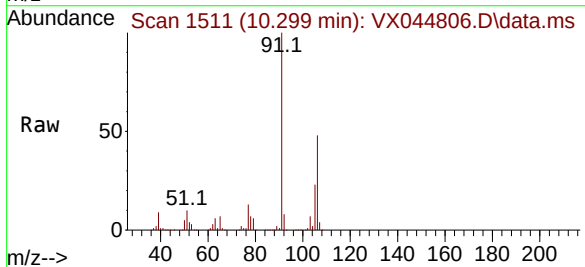
Tgt Ion: 91 Resp: 174214
Ion Ratio Lower Upper
91 100
106 30.8 25.0 37.6

Manual Integrations
APPROVED

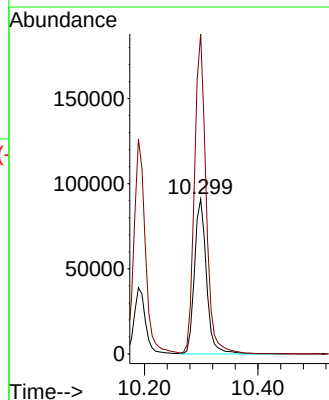
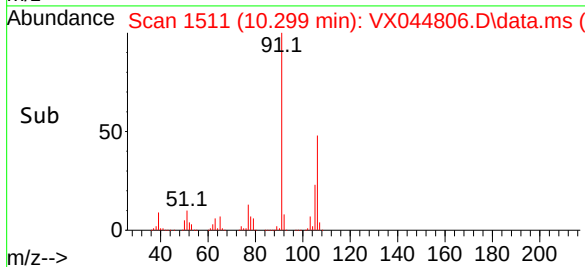
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

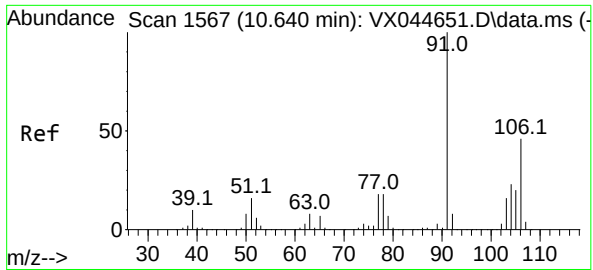


#68
m/p-Xylenes
Concen: 41.476 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32



Tgt Ion:106 Resp: 133091
Ion Ratio Lower Upper
106 100
91 201.1 166.4 249.6





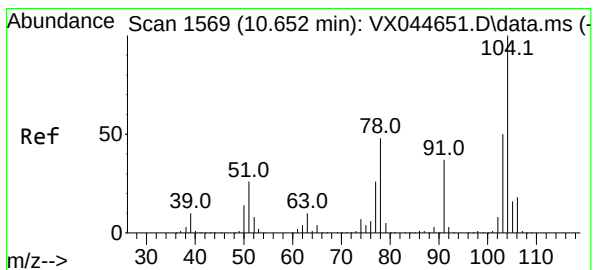
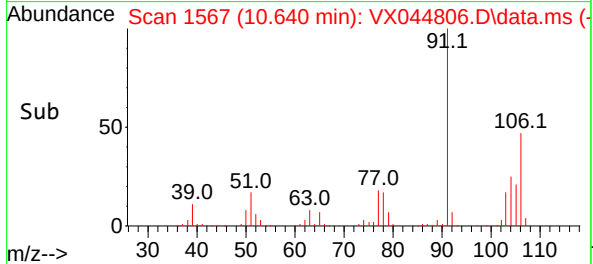
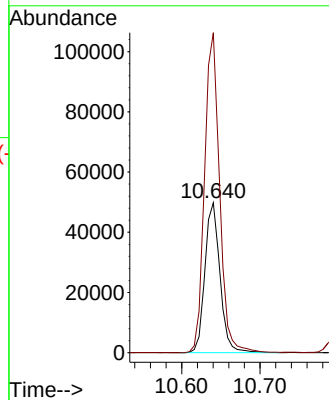
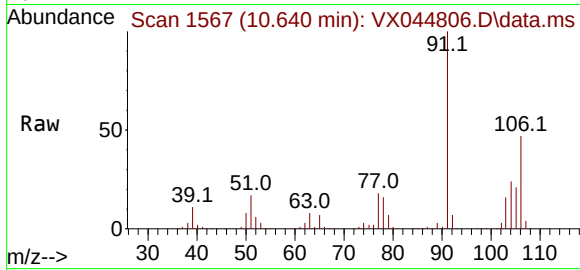
#69
o-Xylene
Concen: 20.489 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01

Tgt Ion:106 Resp: 66490
Ion Ratio Lower Upper
106 100
91 212.9 108.7 326.3

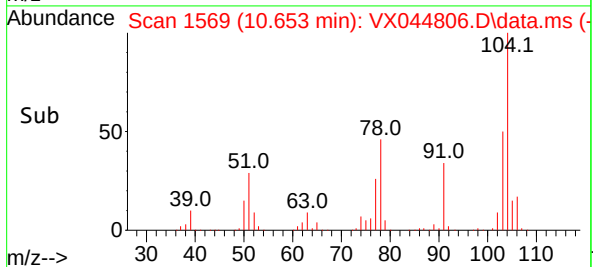
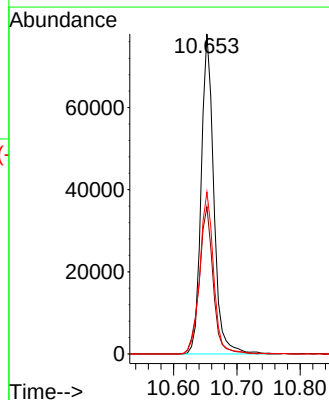
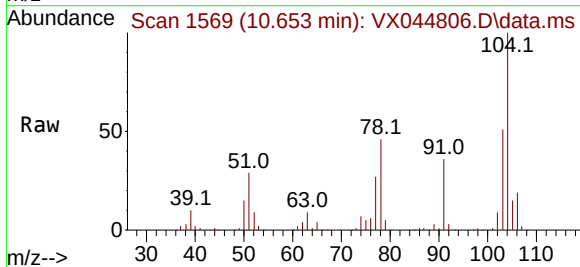
Manual Integrations
APPROVED

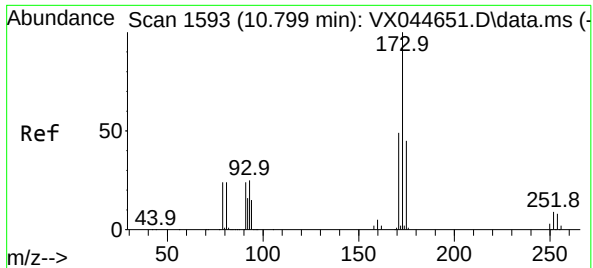
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#70
Styrene
Concen: 20.727 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

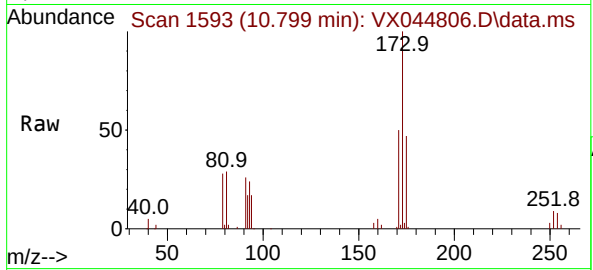
Tgt Ion:104 Resp: 108593
Ion Ratio Lower Upper
104 100
78 50.2 43.0 64.6
103 55.2 43.4 65.2





#71
Bromoform
Concen: 17.832 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

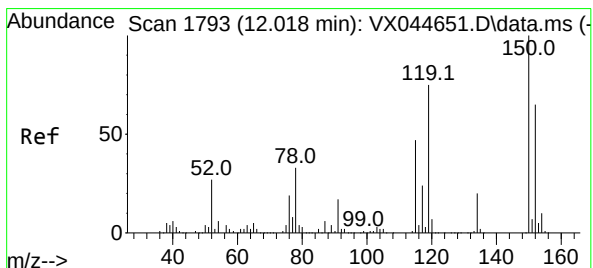
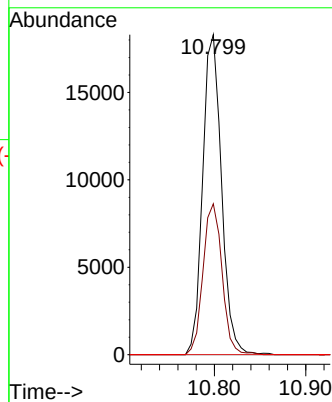
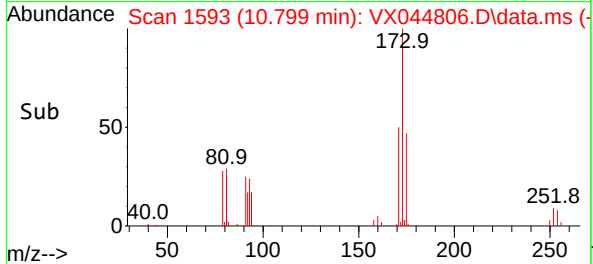
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion:173 Resp: 26139
Ion Ratio Lower Upper
173 100
175 47.6 23.6 70.8
254 0.0 0.1 0.1

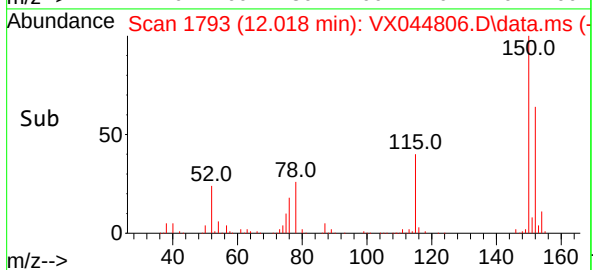
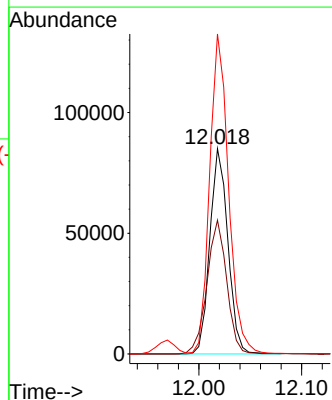
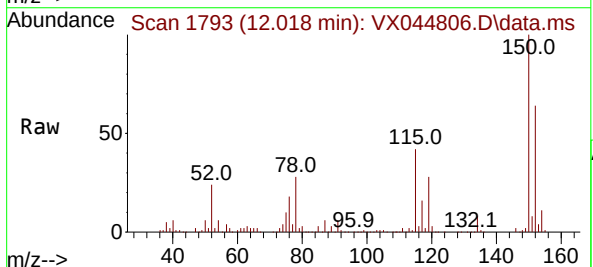
Manual Integrations
APPROVED

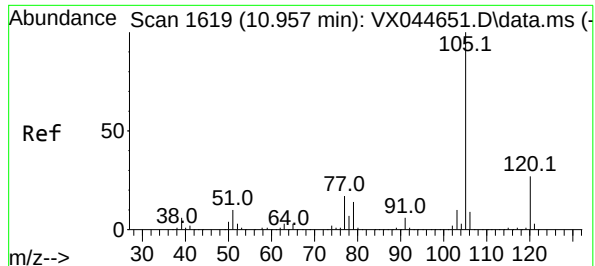
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Tgt Ion:152 Resp: 103778
Ion Ratio Lower Upper
152 100
115 71.6 43.8 131.4
150 163.2 0.0 347.8





#73

Isopropylbenzene

Concen: 19.712 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion:105 Resp: 167118

Ion Ratio Lower Upper

105 100

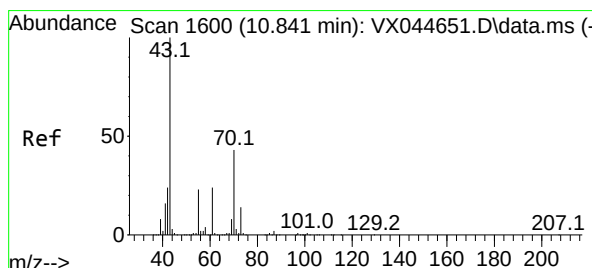
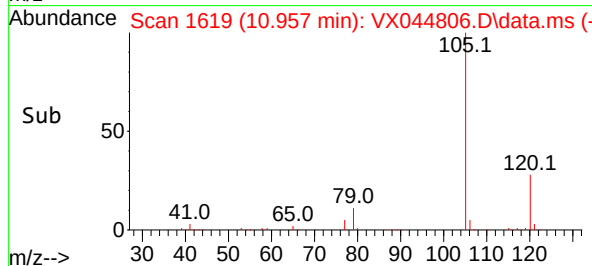
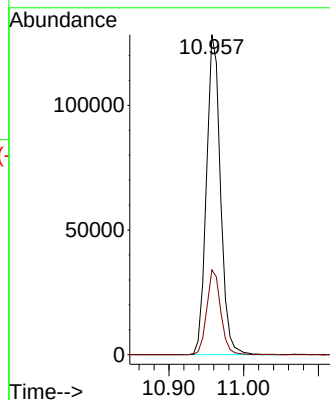
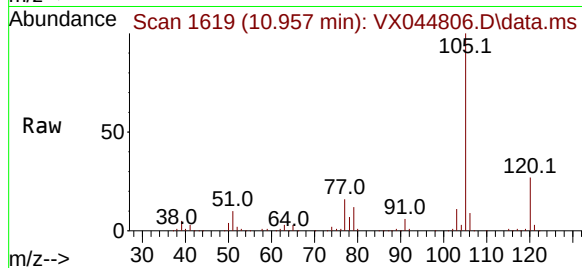
120 26.3 13.2 39.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#74

N-ethyl acetate

Concen: 19.069 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Tgt Ion: 43 Resp: 79685

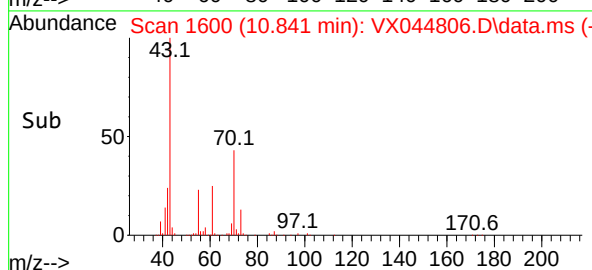
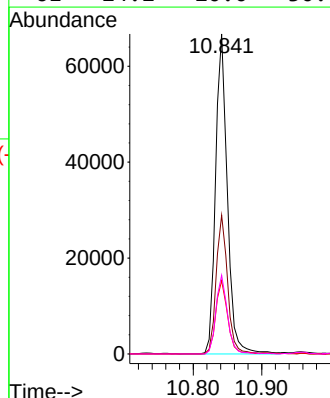
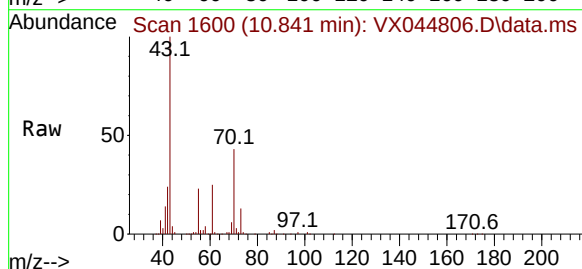
Ion Ratio Lower Upper

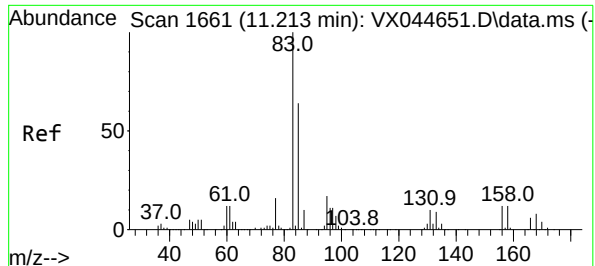
43 100

70 42.5 35.2 52.8

55 23.0 19.0 28.4

61 24.2 20.0 30.0





#75

1,1,2,2-Tetrachloroethane

Concen: 20.238 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.006 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 83 Resp: 59258

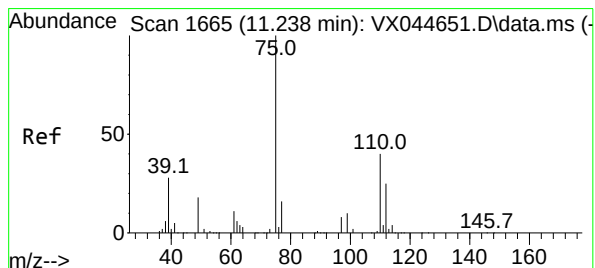
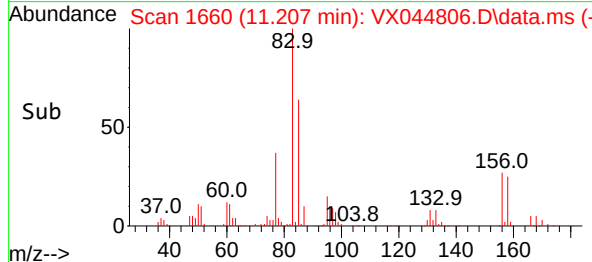
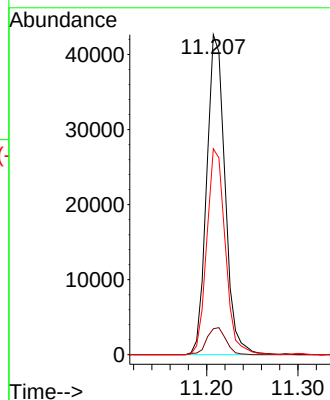
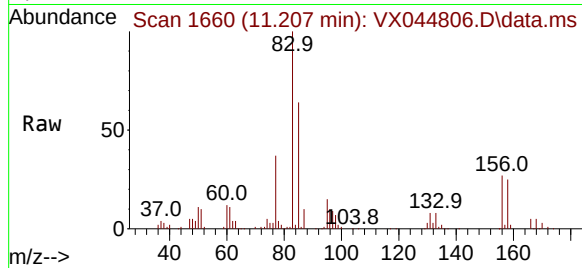
Ion	Ratio	Lower	Upper
83	100		
131	8.8	5.0	14.9
85	65.0	32.0	96.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#76

1,2,3-Trichloropropane

Concen: 19.296 ug/l m

RT: 11.238 min Scan# 1665

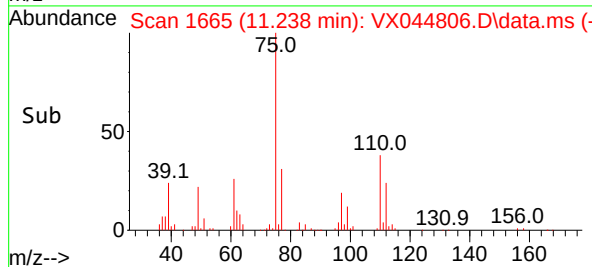
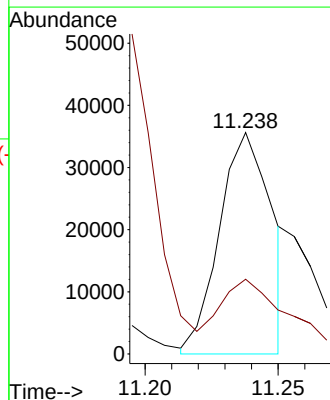
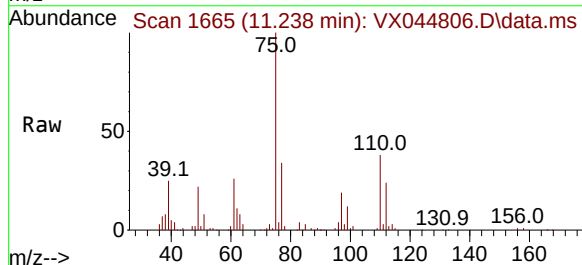
Delta R.T. 0.000 min

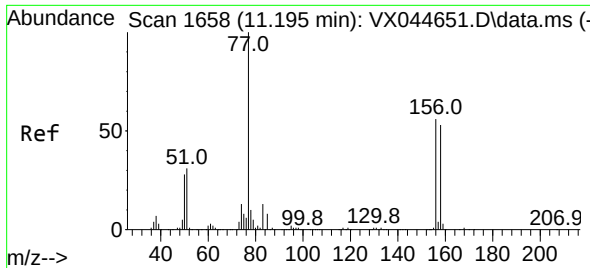
Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Tgt Ion: 75 Resp: 48598

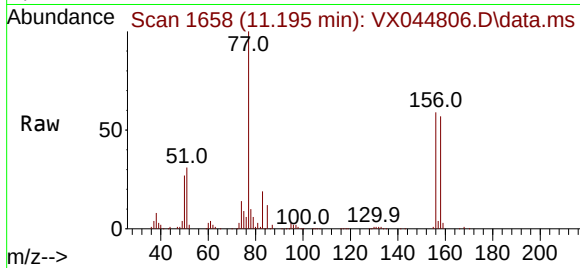
Ion	Ratio	Lower	Upper
75	100		
77	44.5	23.4	70.2





#77
Bromobenzene
Concen: 19.276 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

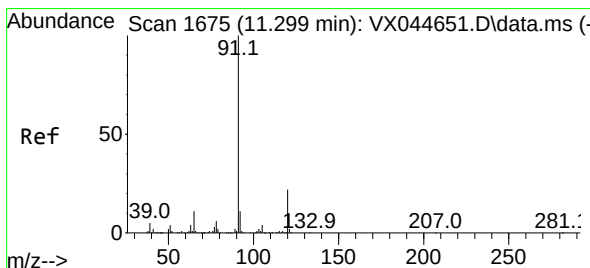
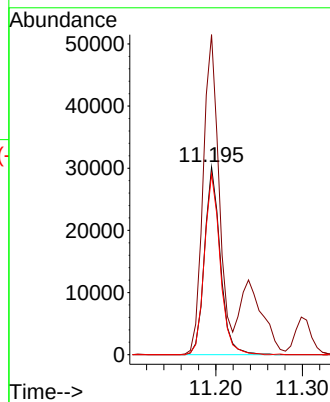
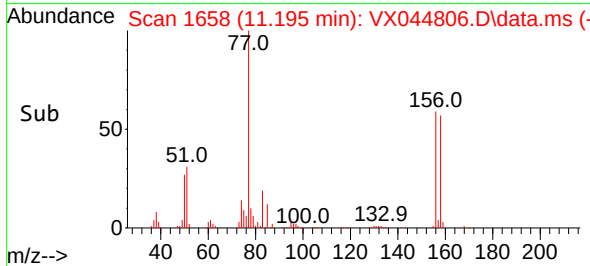
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion: 156 Resp: 3819
Ion Ratio Lower Upper
156 100
77 172.3 90.3 271.0
158 96.4 48.4 145.3

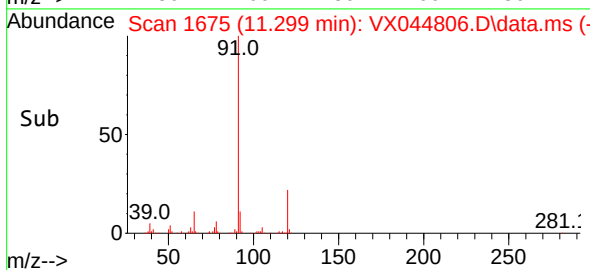
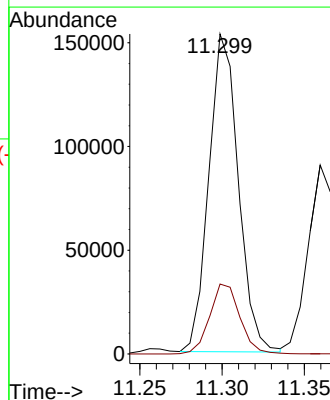
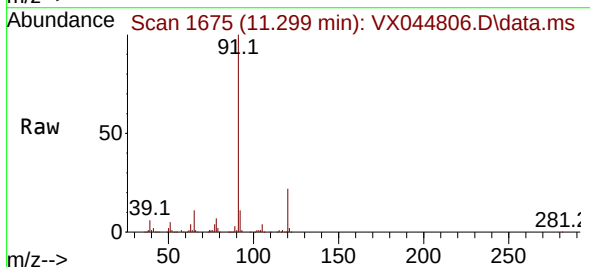
Manual Integrations
APPROVED

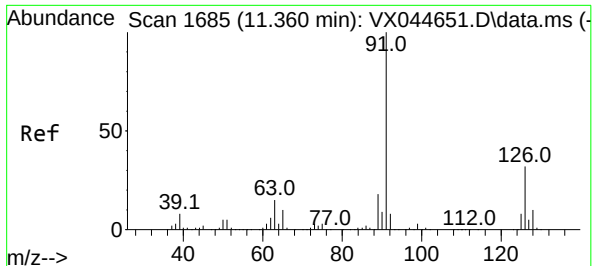
Reviewed By : John Carlone 02/04/2025
Supervised By : Mahesh Dadoda 02/04/2025



#78
n-propylbenzene
Concen: 20.404 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

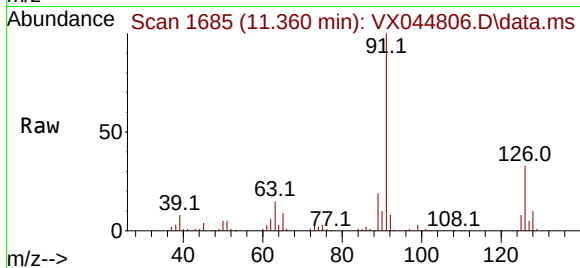
Tgt Ion: 91 Resp: 190772
Ion Ratio Lower Upper
91 100
120 22.6 11.4 34.1





#79
2-Chlorotoluene
Concen: 19.202 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

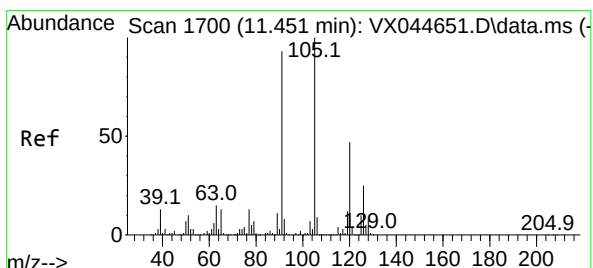
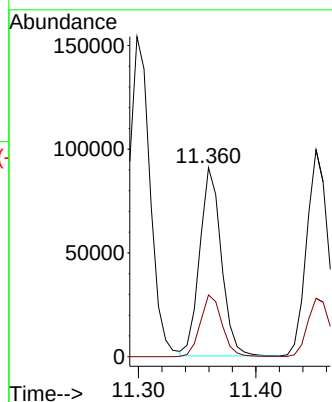
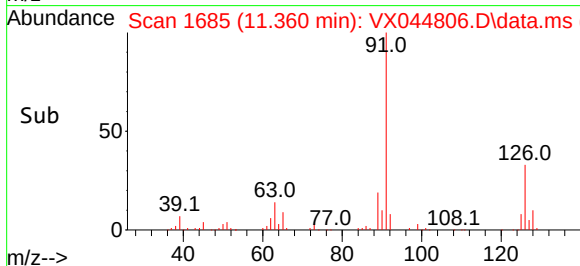
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



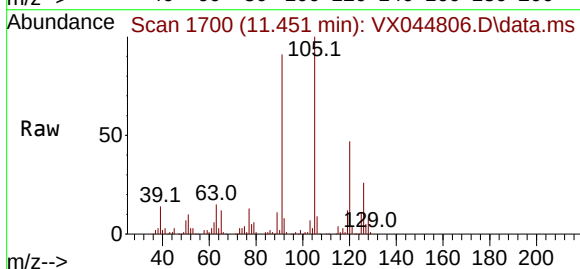
Tgt Ion: 91 Resp: 115975
Ion Ratio Lower Upper
91 100
126 33.0 16.2 48.5

Manual Integrations
APPROVED

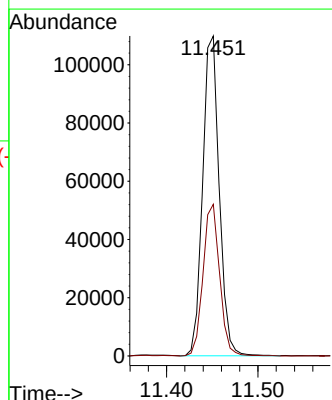
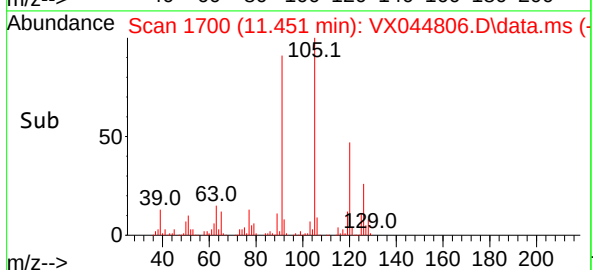
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

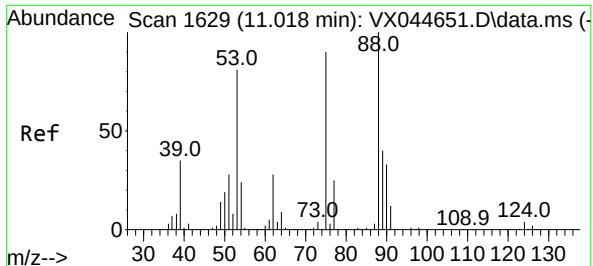


#80
1,3,5-Trimethylbenzene
Concen: 19.999 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32



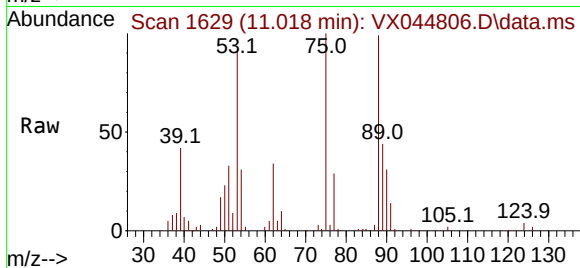
Tgt Ion:105 Resp: 138028
Ion Ratio Lower Upper
105 100
120 47.6 23.7 71.1





#81
trans-1,4-Dichloro-2-butene
Concen: 17.246 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

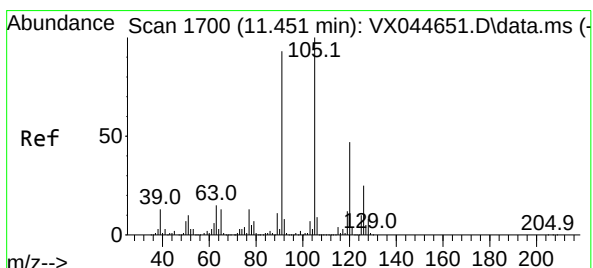
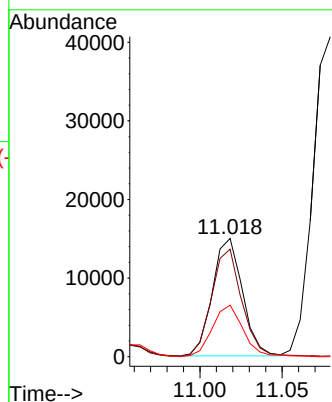
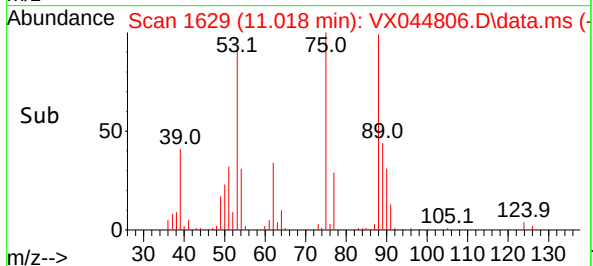
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion	Ratio	Lower	Upper
75	100		
53	92.5	74.3	111.5
89	45.1	37.4	56.0

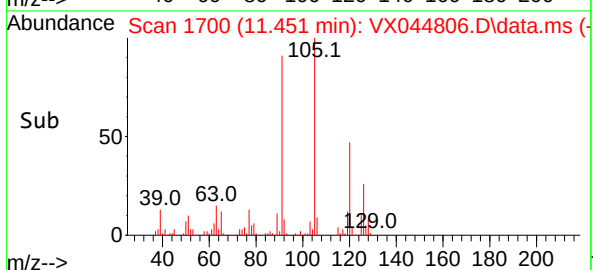
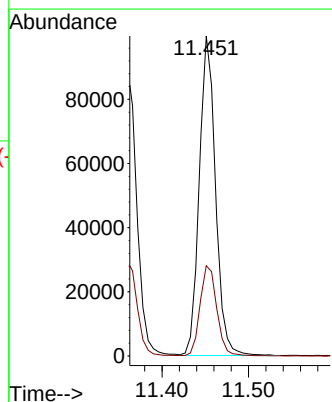
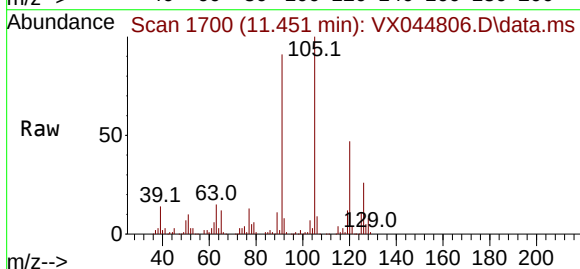
Manual Integrations
APPROVED

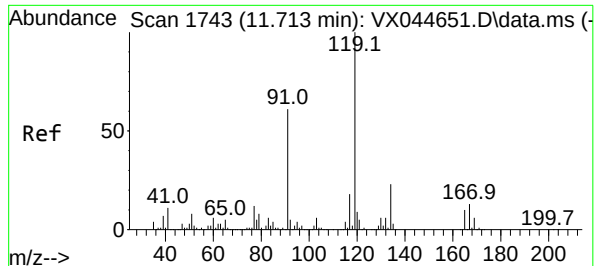
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#82
4-Chlorotoluene
Concen: 19.555 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Tgt Ion	Ratio	Lower	Upper
91	100		
126	29.3	13.9	41.7





#83

tert-Butylbenzene

Concen: 19.450 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion:119 Resp: 140350

Ion Ratio Lower Upper

119 100

91 57.2 30.0 90.0

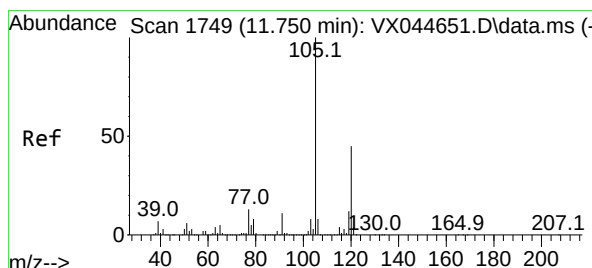
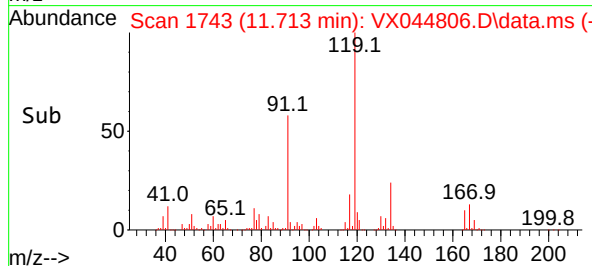
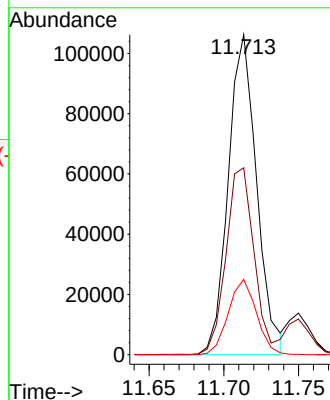
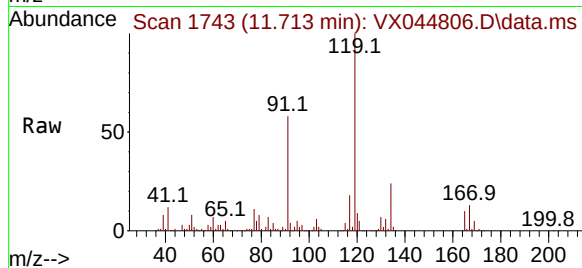
134 23.3 11.2 33.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#84

1,2,4-Trimethylbenzene

Concen: 19.769 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX044806.D

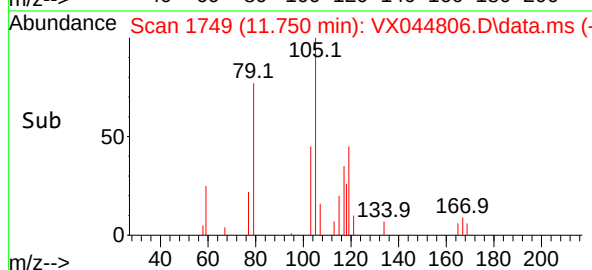
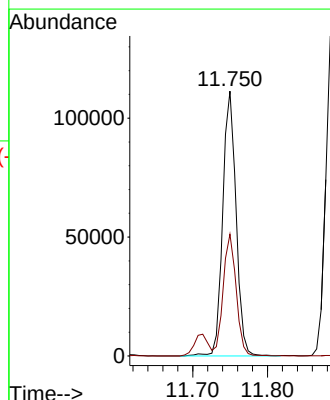
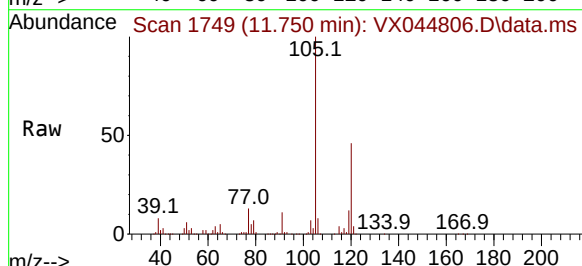
Acq: 03 Feb 2025 11:32

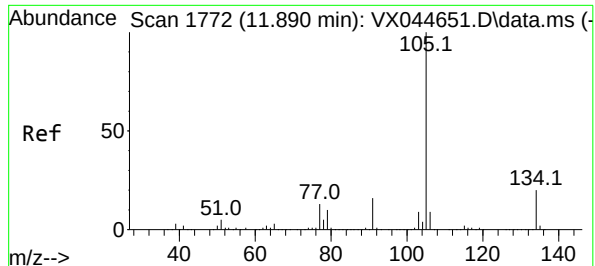
Tgt Ion:105 Resp: 138648

Ion Ratio Lower Upper

105 100

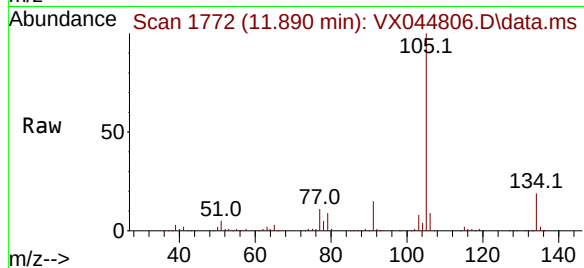
120 44.6 22.2 66.6





#85
 sec-Butylbenzene
 Concen: 20.771 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX044806.D
 Acq: 03 Feb 2025 11:32

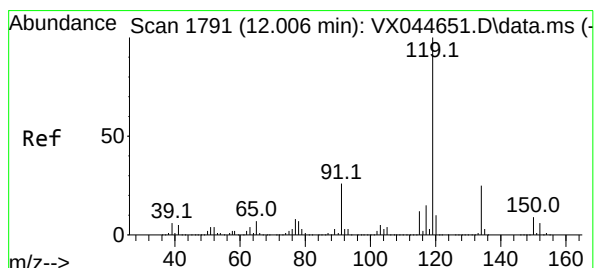
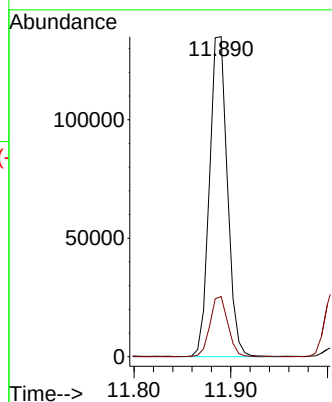
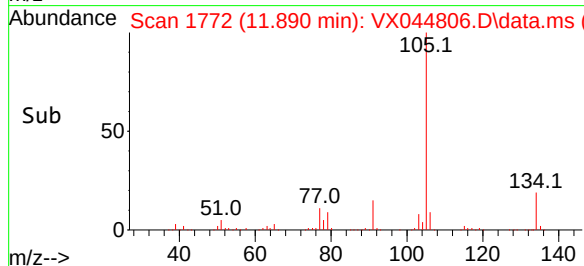
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0203WBSD01



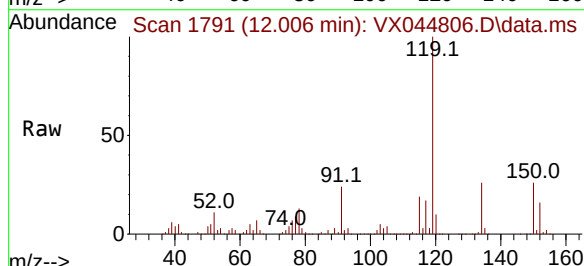
Tgt Ion:105 Resp: 17452
 Ion Ratio Lower Upper
 105 100
 134 18.7 9.8 29.5

Manual Integrations
 APPROVED

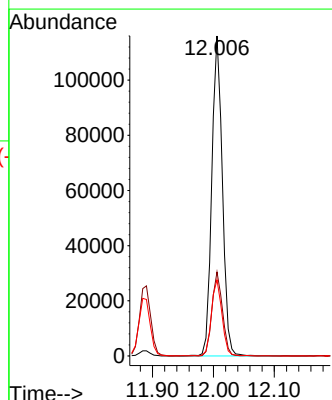
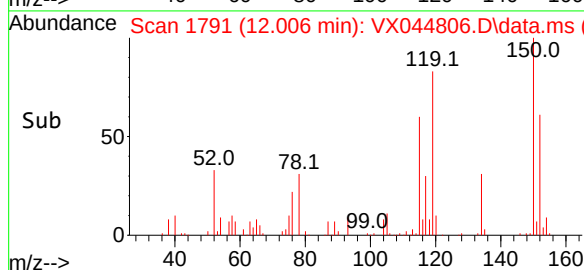
Reviewed By :John Carlone 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

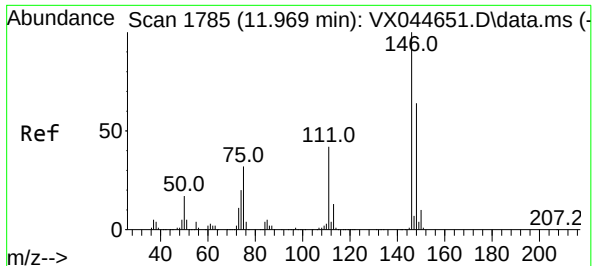


#86
 p-Isopropyltoluene
 Concen: 20.284 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. 0.000 min
 Lab File: VX044806.D
 Acq: 03 Feb 2025 11:32



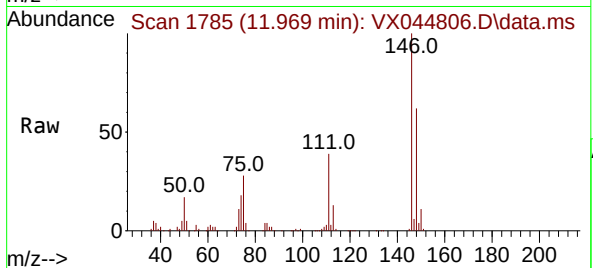
Tgt Ion:119 Resp: 140063
 Ion Ratio Lower Upper
 119 100
 134 26.0 12.8 38.4
 91 23.9 12.7 38.1





#87
1,3-Dichlorobenzene
Concen: 20.263 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

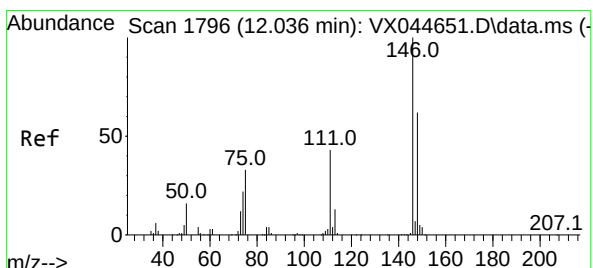
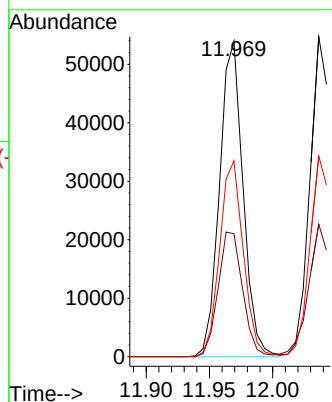
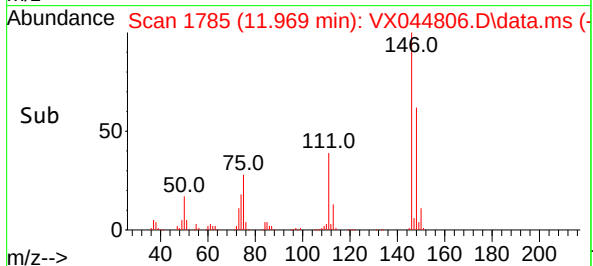
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



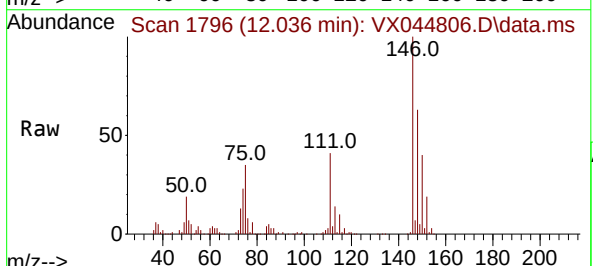
Tgt Ion:146 Resp: 69630
Ion Ratio Lower Upper
146 100
111 41.1 21.9 65.7
148 62.5 31.8 95.4

Manual Integrations
APPROVED

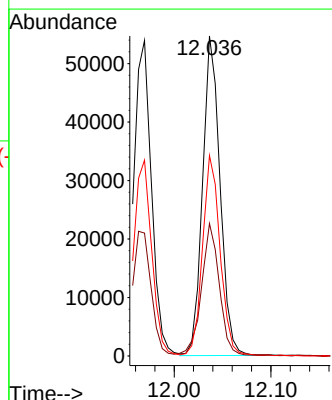
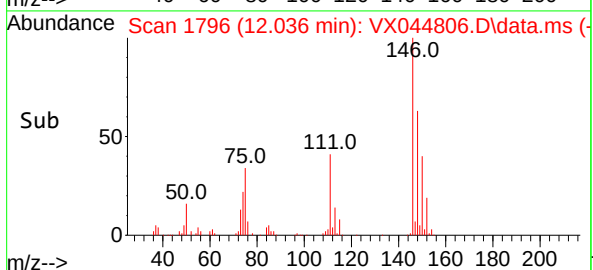
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

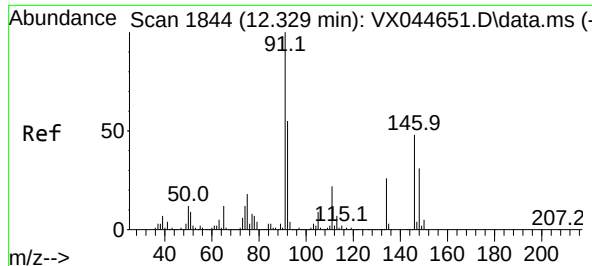


#88
1,4-Dichlorobenzene
Concen: 19.787 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32



Tgt Ion:146 Resp: 68741
Ion Ratio Lower Upper
146 100
111 42.3 21.5 64.5
148 63.8 32.1 96.5





#89

n-Butylbenzene

Concen: 20.555 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion: 91 Resp: 12190

Ion Ratio Lower Upper

91 100

92 55.0 27.4 82.0

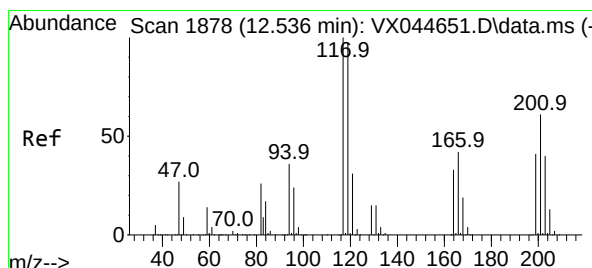
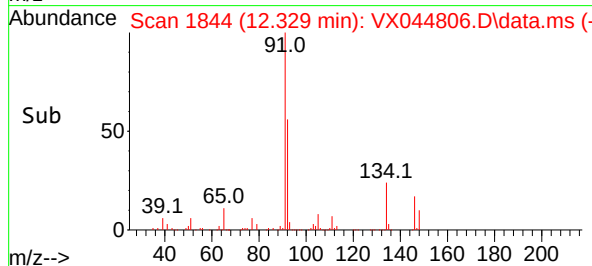
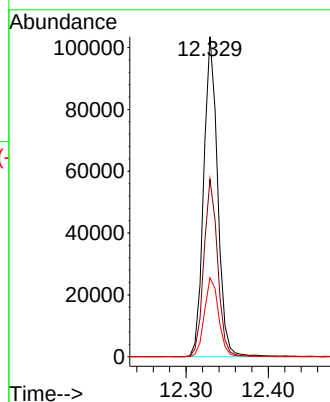
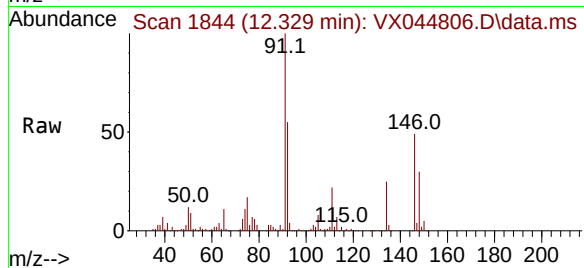
134 25.2 12.8 38.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#90

Hexachloroethane

Concen: 17.178 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX044806.D

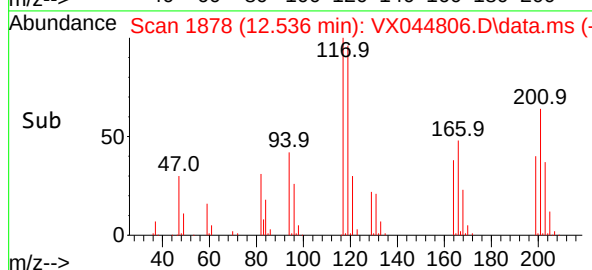
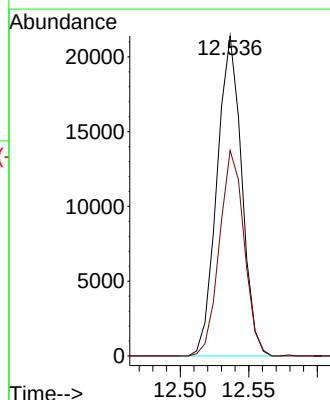
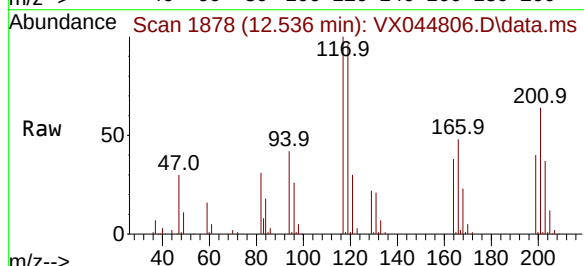
Acq: 03 Feb 2025 11:32

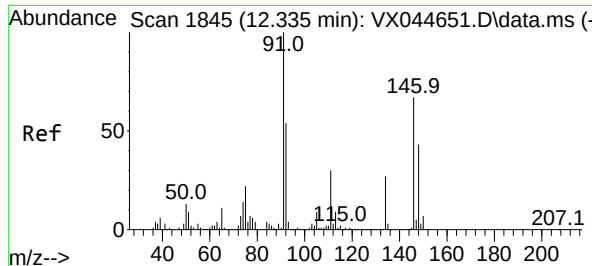
Tgt Ion:117 Resp: 26861

Ion Ratio Lower Upper

117 100

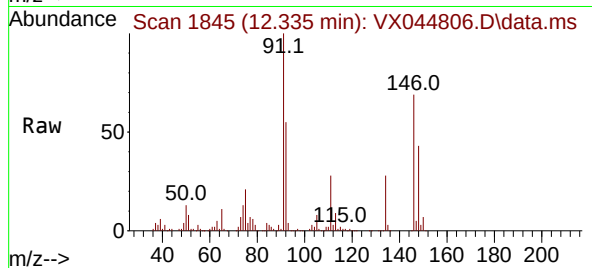
201 64.0 32.3 96.8





#91
1,2-Dichlorobenzene
Concen: 19.978 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

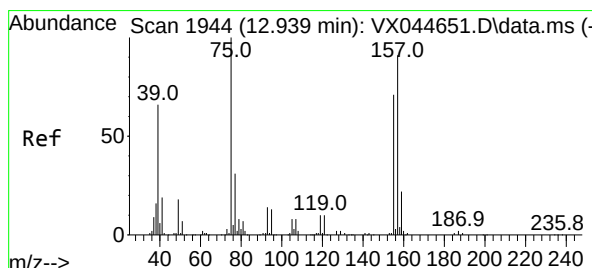
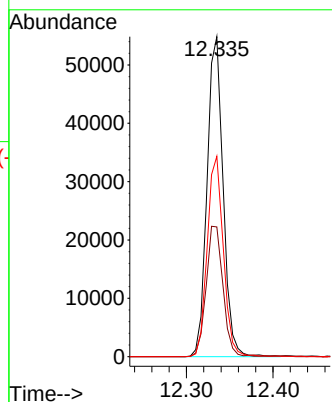
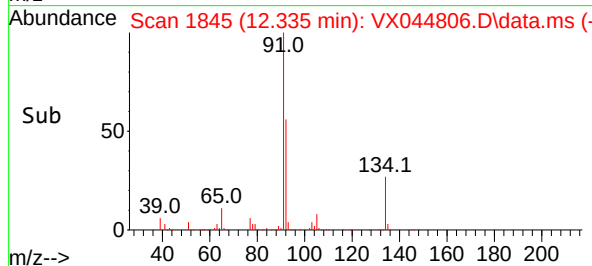
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion:146 Resp: 70508
Ion Ratio Lower Upper
146 100
111 42.8 22.4 67.2
148 63.3 31.6 94.8

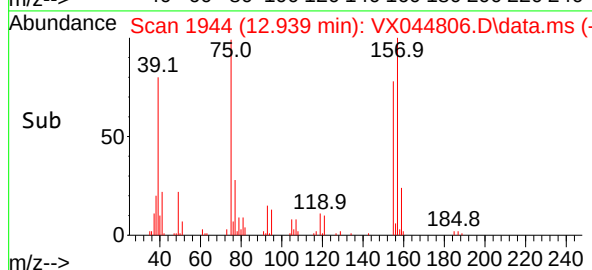
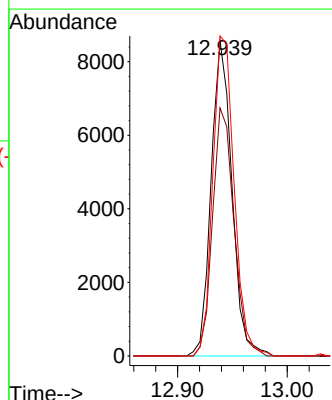
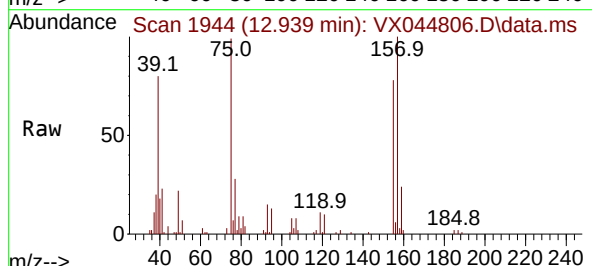
Manual Integrations
APPROVED

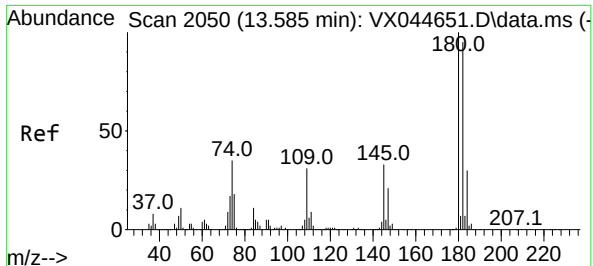
Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 15.772 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Tgt Ion: 75 Resp: 11294
Ion Ratio Lower Upper
75 100
155 80.5 39.0 116.9
157 104.3 49.9 149.7





#93

1,2,4-Trichlorobenzene

Concen: 19.508 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

Instrument :

MSVOA_X

ClientSampleId :

VX0203WBSD01

Tgt Ion:180 Resp: 41158

Ion Ratio Lower Upper

180 100

182 93.9 47.4 142.2

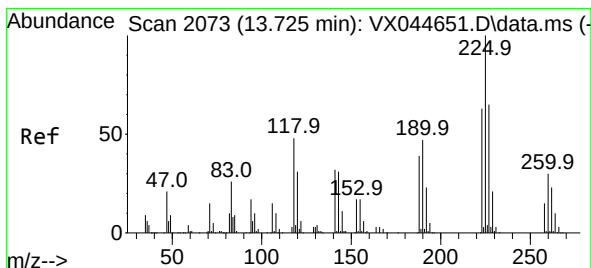
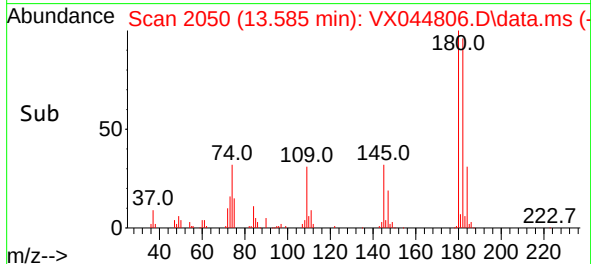
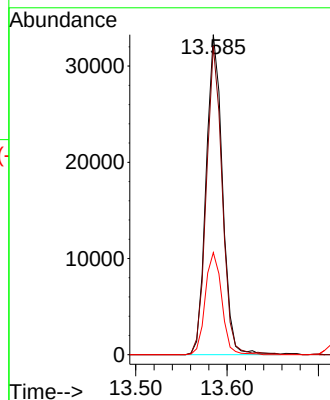
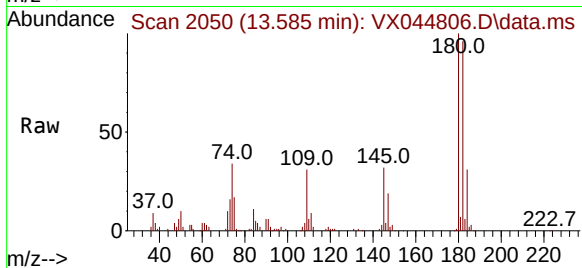
145 32.2 16.7 50.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#94

Hexachlorobutadiene

Concen: 19.101 ug/l

RT: 13.719 min Scan# 2072

Delta R.T. -0.006 min

Lab File: VX044806.D

Acq: 03 Feb 2025 11:32

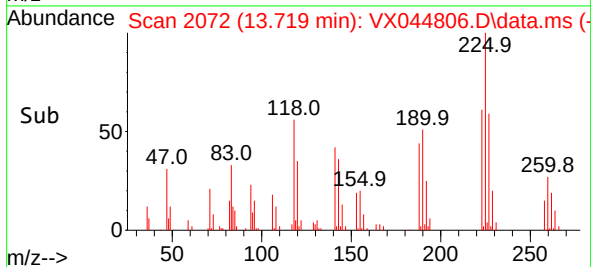
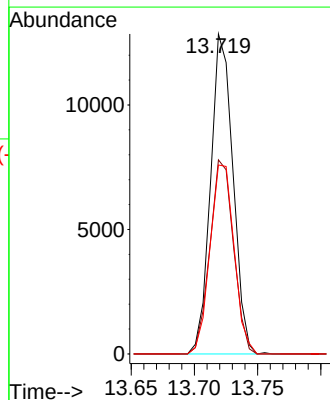
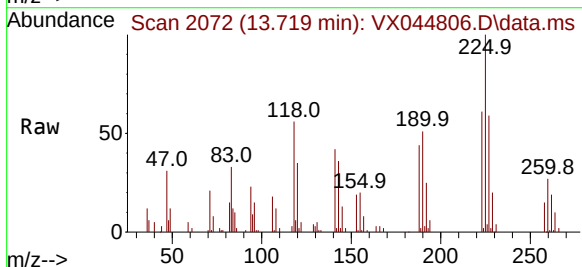
Tgt Ion:225 Resp: 15830

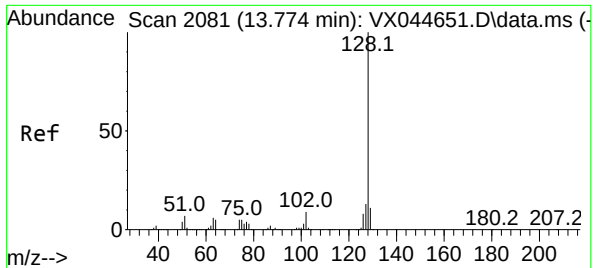
Ion Ratio Lower Upper

225 100

223 63.8 31.9 95.7

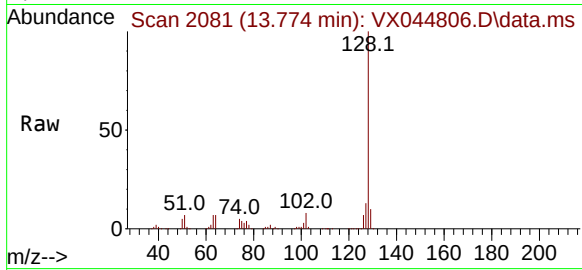
227 63.5 31.8 95.4





#95
Naphthalene
Concen: 19.531 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

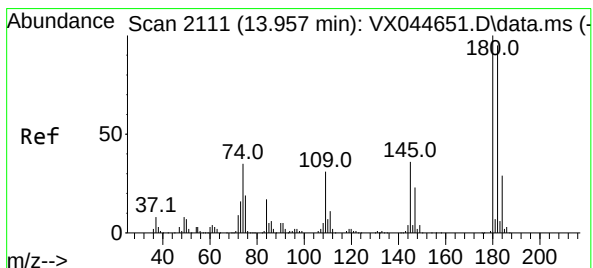
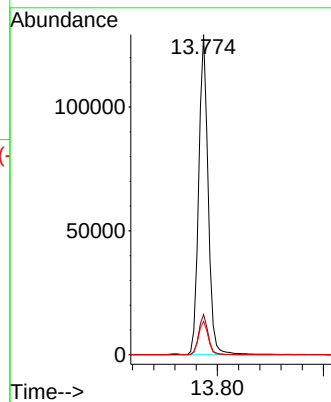
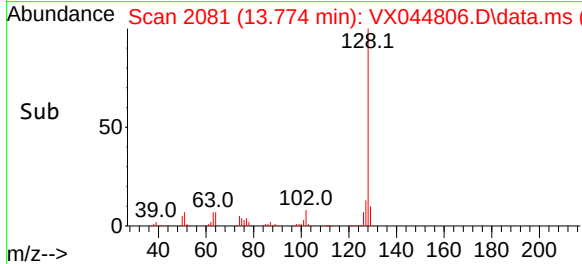
Instrument :
MSVOA_X
ClientSampleId :
VX0203WBSD01



Tgt Ion:128 Resp: 158930
Ion Ratio Lower Upper
128 100
127 12.3 10.3 15.5
129 10.7 8.7 13.1

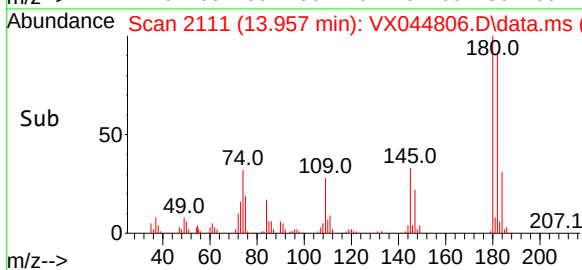
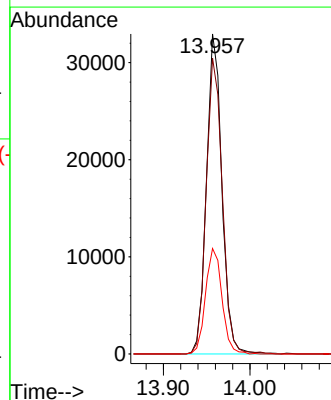
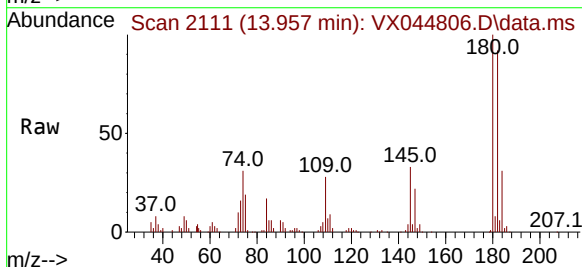
Manual Integrations
APPROVED

Reviewed By :John Carlone 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.643 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044806.D
Acq: 03 Feb 2025 11:32

Tgt Ion:180 Resp: 40771
Ion Ratio Lower Upper
180 100
182 96.2 47.2 141.6
145 35.1 17.5 52.6



Manual Integration Report

Sequence:	VX011525	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX044648.D	1,2,3-Trichloropropane	JOHN	1/15/2025 3:49:52 PM	SAM	1/16/2025 7:37:32 AM	Peak Integrated by Software
VSTDICC001	VX044648.D	1,4-Dichlorobenzene	JOHN	1/15/2025 3:49:52 PM	SAM	1/16/2025 7:37:32 AM	Peak Integrated by Software
VSTDICC001	VX044648.D	Methacrylonitrile	JOHN	1/15/2025 3:49:52 PM	SAM	1/16/2025 7:37:32 AM	Peak Integrated by Software
VSTDICC005	VX044649.D	1,2,3-Trichloropropane	JOHN	1/15/2025 3:49:56 PM	SAM	1/16/2025 7:37:34 AM	Peak Integrated by Software
VSTDICC005	VX044649.D	Tert butyl alcohol	JOHN	1/15/2025 3:49:56 PM	SAM	1/16/2025 7:37:34 AM	Peak Integrated by Software
VSTDICC020	VX044650.D	1,2,3-Trichloropropane	JOHN	1/15/2025 3:50:00 PM	SAM	1/16/2025 7:37:35 AM	Peak Integrated by Software
VSTDICC020	VX044650.D	Tert butyl alcohol	JOHN	1/15/2025 3:50:00 PM	SAM	1/16/2025 7:37:35 AM	Peak Integrated by Software
VSTDICCC050	VX044651.D	1,2,3-Trichloropropane	JOHN	1/15/2025 3:50:04 PM	SAM	1/16/2025 7:37:43 AM	Peak Integrated by Software
VSTDICCC050	VX044651.D	Tert butyl alcohol	JOHN	1/15/2025 3:50:04 PM	SAM	1/16/2025 7:37:43 AM	Peak Integrated by Software
VSTDICC100	VX044652.D	1,2,3-Trichloropropane	JOHN	1/15/2025 3:50:09 PM	SAM	1/16/2025 7:37:45 AM	Peak Integrated by Software
VSTDICC100	VX044652.D	Tert butyl alcohol	JOHN	1/15/2025 3:50:09 PM	SAM	1/16/2025 7:37:45 AM	Peak Integrated by Software
VSTDICC150	VX044653.D	1,2,3-Trichloropropane	JOHN	1/15/2025 3:50:13 PM	SAM	1/16/2025 7:37:47 AM	Peak Integrated by Software
VSTDICC150	VX044653.D	Tert butyl alcohol	JOHN	1/15/2025 3:50:13 PM	SAM	1/16/2025 7:37:47 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX011525

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX044655.D	1,2,3-Trichloropropane	MMDADO DA	1/16/2025 7:35:14 AM	SAM	1/16/2025 7:37:49 AM	Peak Integrated by Software
VSTDICV050	VX044655.D	Tert butyl alcohol	MMDADO DA	1/16/2025 7:35:14 AM	SAM	1/16/2025 7:37:49 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VX020325	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX044802.D	1,2,3-Trichloropropane	JOHN	2/4/2025 9:48:52 AM	MMDadoda	2/4/2025 3:45:27 PM	Peak Integrated by Software
VSTDCCC050	VX044802.D	Chloroethane	JOHN	2/4/2025 9:48:52 AM	MMDadoda	2/4/2025 3:45:27 PM	Peak Integrated by Software
VSTDCCC050	VX044802.D	Tert butyl alcohol	JOHN	2/4/2025 9:48:52 AM	MMDadoda	2/4/2025 3:45:27 PM	Peak Integrated by Software
VX0203WBS01	VX044805.D	1,2,3-Trichloropropane	JOHN	2/4/2025 9:48:56 AM	MMDadoda	2/4/2025 3:45:29 PM	Peak Integrated by Software
VX0203WBSD0 1	VX044806.D	1,2,3-Trichloropropane	JOHN	2/4/2025 9:49:00 AM	MMDadoda	2/4/2025 3:45:31 PM	Peak Integrated by Software
VSTDCCC050	VX044826.D	1,2,3-Trichloropropane	JOHN	2/4/2025 9:49:15 AM	MMDadoda	2/4/2025 3:45:37 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX011525

Review By	John Carlone	Review On	1/15/2025 4:32:35 PM
Supervise By	Maresh Dadoda	Supervise On	1/16/2025 7:35:39 AM
SubDirectory	VX011525	HP Acquire Method	HP Processing Method 82X011525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP132553		
Initial Calibration Stds	VP132558,VP132559,VP132560,VP132561,VP132562,VP132563		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP132564		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044647.D	15 Jan 2025 09:30	JC/MD	Ok
2	VSTDIC001	VX044648.D	15 Jan 2025 10:31	JC/MD	Ok,M
3	VSTDIC005	VX044649.D	15 Jan 2025 11:17	JC/MD	Ok,M
4	VSTDIC020	VX044650.D	15 Jan 2025 11:40	JC/MD	Ok,M
5	VSTDIC050	VX044651.D	15 Jan 2025 12:02	JC/MD	Ok,M
6	VSTDIC100	VX044652.D	15 Jan 2025 13:14	JC/MD	Ok,M
7	VSTDIC150	VX044653.D	15 Jan 2025 13:37	JC/MD	Ok,M
8	IBLK	VX044654.D	15 Jan 2025 14:00	JC/MD	Ok
9	VSTDICV050	VX044655.D	15 Jan 2025 15:15	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX020325

Review By	John Carlone	Review On	2/4/2025 9:51:15 AM
Supervise By	Maresh Dadoda	Supervise On	2/4/2025 3:45:43 PM
SubDirectory	VX020325	HP Acquire Method	HP Processing Method 82X011525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132831		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132832,VP132833		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX044801.D	03 Feb 2025 08:12	JC/MD	Ok
2	VSTDCCC050	VX044802.D	03 Feb 2025 09:52	JC/MD	Ok,M
3	VX0203MBL01	VX044803.D	03 Feb 2025 10:21	JC/MD	Ok
4	VX0203WBL01	VX044804.D	03 Feb 2025 10:44	JC/MD	Ok
5	VX0203WBS01	VX044805.D	03 Feb 2025 11:07	JC/MD	Ok,M
6	VX0203WBSD01	VX044806.D	03 Feb 2025 11:32	JC/MD	Ok,M
7	PB166357TB	VX044807.D	03 Feb 2025 11:55	JC/MD	Ok
8	Q1215-06	VX044808.D	03 Feb 2025 12:18	JC/MD	Ok
9	Q1216-02	VX044809.D	03 Feb 2025 12:41	JC/MD	Ok
10	Q1216-06	VX044810.D	03 Feb 2025 13:04	JC/MD	Ok
11	Q1216-10	VX044811.D	03 Feb 2025 13:27	JC/MD	Ok
12	Q1221-02	VX044812.D	03 Feb 2025 13:50	JC/MD	Ok,M
13	Q1218-02	VX044813.D	03 Feb 2025 14:36	JC/MD	Ok
14	Q1239-07	VX044814.D	03 Feb 2025 14:59	JC/MD	Ok
15	VX0203MBS01	VX044815.D	03 Feb 2025 15:22	JC/MD	Ok,M
16	Q1232-06	VX044816.D	03 Feb 2025 15:45	JC/MD	Ok
17	Q1239-10	VX044817.D	03 Feb 2025 16:08	JC/MD	Ok
18	Q1232-14	VX044818.D	03 Feb 2025 16:32	JC/MD	Ok
19	Q1232-18	VX044819.D	03 Feb 2025 16:55	JC/MD	Ok
20	Q1235-02	VX044820.D	03 Feb 2025 17:18	JC/MD	Ok
21	Q1235-06	VX044821.D	03 Feb 2025 17:41	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX020325

Review By	John Carlone	Review On	2/4/2025 9:51:15 AM
Supervise By	Mahesh Dadoda	Supervise On	2/4/2025 3:45:43 PM
SubDirectory	VX020325	HP Acquire Method	HP Processing Method 82X011525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132831		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132832,VP132833		

22	Q1239-02	VX044822.D	03 Feb 2025 18:04	JC/MD	Ok
23	Q1239-05	VX044823.D	03 Feb 2025 18:27	JC/MD	Ok
24	Q1239-08	VX044824.D	03 Feb 2025 18:50	JC/MD	Ok
25	Q1239-11	VX044825.D	03 Feb 2025 19:14	JC/MD	Ok
26	VSTDCCC050	VX044826.D	03 Feb 2025 19:37	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX011525

Review By	John Carlone	Review On	1/15/2025 4:32:35 PM
Supervise By	Maresh Dadoda	Supervise On	1/16/2025 7:35:39 AM
SubDirectory	VX011525	HP Acquire Method	HP Processing Method 82X011525W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132553 VP132558,VP132559,VP132560,VP132561,VP132562,VP132563 VP132564

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044647.D	15 Jan 2025 09:30		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX044648.D	15 Jan 2025 10:31		JC/MD	Ok,M
3	VSTDIC005	VSTDIC005	VX044649.D	15 Jan 2025 11:17		JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX044650.D	15 Jan 2025 11:40		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX044651.D	15 Jan 2025 12:02	Method failed for Acrolein	JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX044652.D	15 Jan 2025 13:14		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX044653.D	15 Jan 2025 13:37		JC/MD	Ok,M
8	IBLK	IBLK	VX044654.D	15 Jan 2025 14:00		JC/MD	Ok
9	VSTDICV050	ICVVX011525	VX044655.D	15 Jan 2025 15:15		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX020325

Review By	John Carlone	Review On	2/4/2025 9:51:15 AM
Supervise By	Maresh Dadoda	Supervise On	2/4/2025 3:45:43 PM
SubDirectory	VX020325	HP Acquire Method	HP Processing Method 82X011525W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP132831
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132832,VP132833

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX044801.D	03 Feb 2025 08:12		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX044802.D	03 Feb 2025 09:52		JC/MD	Ok,M
3	VX0203MBL01	VX0203MBL01	VX044803.D	03 Feb 2025 10:21	V13516	JC/MD	Ok
4	VX0203WBL01	VX0203WBL01	VX044804.D	03 Feb 2025 10:44		JC/MD	Ok
5	VX0203WBS01	VX0203WBS01	VX044805.D	03 Feb 2025 11:07		JC/MD	Ok,M
6	VX0203WBSD01	VX0203WBSD01	VX044806.D	03 Feb 2025 11:32		JC/MD	Ok,M
7	PB166357TB	PB166357TB	VX044807.D	03 Feb 2025 11:55		JC/MD	Ok
8	Q1215-06	JPP-29.2-012825	VX044808.D	03 Feb 2025 12:18	vial A pH#5.0	JC/MD	Ok
9	Q1216-02	JPP-18.1-012825	VX044809.D	03 Feb 2025 12:41	vial A pH#5.0	JC/MD	Ok
10	Q1216-06	JPP-21.1-012825	VX044810.D	03 Feb 2025 13:04	vial A pH#5.0	JC/MD	Ok
11	Q1216-10	JPP-21.2-012825	VX044811.D	03 Feb 2025 13:27	vial A pH#5.0	JC/MD	Ok
12	Q1221-02	JPP-26.1-012825	VX044812.D	03 Feb 2025 13:50	vial A pH#5.0	JC/MD	Ok,M
13	Q1218-02	BELL-25-002	VX044813.D	03 Feb 2025 14:36	vial A pH#5.0	JC/MD	Ok
14	Q1239-07	RBR22266	VX044814.D	03 Feb 2025 14:59		JC/MD	Ok
15	VX0203MBS01	VX0203MBS01	VX044815.D	03 Feb 2025 15:22		JC/MD	Ok,M
16	Q1232-06	JPP-46.1-012925	VX044816.D	03 Feb 2025 15:45	vial A pH#5.0	JC/MD	Ok
17	Q1239-10	357	VX044817.D	03 Feb 2025 16:08		JC/MD	Ok
18	Q1232-14	JPP-42.2-012925	VX044818.D	03 Feb 2025 16:32	vial A pH#5.0	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX020325

Review By	John Carlone	Review On	2/4/2025 9:51:15 AM
Supervise By	Maresh Dadoda	Supervise On	2/4/2025 3:45:43 PM
SubDirectory	VX020325	HP Acquire Method	HP Processing Method 82X011525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP132831		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP132832,VP132833		

19	Q1232-18	JPP-51.1-012925	VX044819.D	03 Feb 2025 16:55	vial A pH#5.0	JC/MD	Ok
20	Q1235-02	JPP-51.2-012925	VX044820.D	03 Feb 2025 17:18	vial A pH#5.0	JC/MD	Ok
21	Q1235-06	JPP-16.1-012925	VX044821.D	03 Feb 2025 17:41	vial A pH#5.0	JC/MD	Ok
22	Q1239-02	286	VX044822.D	03 Feb 2025 18:04	vial A pH#5.0	JC/MD	Ok
23	Q1239-05	348	VX044823.D	03 Feb 2025 18:27	vial A pH#5.0	JC/MD	Ok
24	Q1239-08	RBR22266	VX044824.D	03 Feb 2025 18:50	vial A pH#5.0	JC/MD	Ok
25	Q1239-11	357	VX044825.D	03 Feb 2025 19:14	vial A pH#5.0	JC/MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VX044826.D	03 Feb 2025 19:37		JC/MD	Ok,M

M : Manual Integration

SOP ID : M1311-TCLP-15

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pipette ID : WC

Tumbler ID : ZHE-1 / ZHE-2

TCLP Filter ID : 50223706

Start Prep Date : 01/30/2025 Time : 14:00

End Prep Date : 01/31/2025 Time : 07:15

Combination Ratio : 20

ZHE Cleaning Batch : ³⁸ ~~N/A~~ UN013125

Initial Room Temperature: 23 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : ³⁸

Supervisor By : ¹²

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110801
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
40ml VOA Vials	23237	N/A

Extraction Conformance/Non-Conformance Comments:

ALL ZHE samples are extracted and given as vial A & B. Leak checked after 10 mintues of tumbling. Tumbler ZHE-1/ ZHE-2 checked,30 rpm.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/31/25 09:40	³⁸ / TCLP Room	S.Y. / VOC Lab
	Preparation Group	Analysis Group

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB166357TB	LEB357	N/A	N/A	500	N/A	N/A	N/A	4.94	N/A	ZHE-2
Q1215-02	JPP-29.1-012825	01	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1215-06	JPP-29.2-012825	02	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1216-02	JPP-18.1-012825	03	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1216-06	JPP-21.1-012825	04	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1216-10	JPP-21.2-012825	05	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1216-14	JPP-26.1-012825	06	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1216-18	JPP-26.2-012825	07	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1218-02	BELL-25-002	08	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1219-02	LAW-25-0015	09	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1221-02	CHESTNUT-CONCRETE	10	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-1
Q1232-02	JPP-46.2-012925	11	25.04	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1232-06	JPP-46.1-012925	12	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1232-10	JPP-42.1-012925	13	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1232-14	JPP-42.2-012925	14	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1232-18	JPP-51.1-012925	15	25.01	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1235-02	JPP-51.2-012925	16	25.02	500	N/A	N/A	N/A	N/A	N/A	ZHE-2
Q1235-06	JPP-16.1-012925	17	25.03	500	N/A	N/A	N/A	N/A	N/A	ZHE-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB166357TB	LEB357	N/A	N/A	N/A	N/A	N/A	N/A
Q1215-02	JPP-29.1-012825	N/A	N/A	N/A	N/A	100	N/A
Q1215-06	JPP-29.2-012825	N/A	N/A	N/A	N/A	100	N/A
Q1216-02	JPP-18.1-012825	N/A	N/A	N/A	N/A	100	N/A
Q1216-06	JPP-21.1-012825	N/A	N/A	N/A	N/A	100	N/A
Q1216-10	JPP-21.2-012825	N/A	N/A	N/A	N/A	100	N/A
Q1216-14	JPP-26.1-012825	N/A	N/A	N/A	N/A	100	N/A
Q1216-18	JPP-26.2-012825	N/A	N/A	N/A	N/A	100	N/A
Q1218-02	BELL-25-002	N/A	N/A	N/A	N/A	100	N/A
Q1219-02	LAW-25-0015	N/A	N/A	N/A	N/A	100	N/A
Q1221-02	CHESTNUT-CONCRETE	N/A	N/A	N/A	N/A	100	N/A
Q1232-02	JPP-46.2-012925	N/A	N/A	N/A	N/A	100	N/A
Q1232-06	JPP-46.1-012925	N/A	N/A	N/A	N/A	100	N/A
Q1232-10	JPP-42.1-012925	N/A	N/A	N/A	N/A	100	N/A
Q1232-14	JPP-42.2-012925	N/A	N/A	N/A	N/A	100	N/A
Q1232-18	JPP-51.1-012925	N/A	N/A	N/A	N/A	100	N/A
Q1235-02	JPP-51.2-012925	N/A	N/A	N/A	N/A	100	N/A
Q1235-06	JPP-16.1-012925	N/A	N/A	N/A	N/A	100	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE Q1221

WorkList ID : 187276

Department : TCLP Extraction

Date : 01-30-2025 08:09:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1215-02	JPP-29.1-012825	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311 ZHE
Q1215-06	JPP-29.2-012825	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311 ZHE
Q1216-02	JPP-18.1-012825	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311 ZHE
Q1216-06	JPP-21.1-012825	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311 ZHE
Q1216-10	JPP-21.2-012825	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311 ZHE
Q1216-14	JPP-26.1-012825	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311 ZHE
Q1216-18	JPP-26.2-012825	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311 ZHE
Q1218-02	BELL-25-002	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/28/2025	1311 ZHE
Q1219-02	LAW-25-0015	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N41	01/29/2025	1311 ZHE
Q1221-02	CHESTNUT-CONCRETE	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N41	01/29/2025	1311 ZHE
Q1232-02	JPP-46.2-012925	Solid	TCLP ZHE Extraction	Cool 4 deg C	PSEG03	N41	01/29/2025	1311 ZHE
Q1232-06	JPP-46.1-012925	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311 ZHE
Q1232-10	JPP-42.1-012925	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311 ZHE
Q1232-14	JPP-42.2-012925	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311 ZHE
Q1232-18	JPP-51.1-012925	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311 ZHE
Q1235-02	JPP-51.2-012925	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311 ZHE
Q1235-06	JPP-16.1-012925	Solid	TCLP ZHE Extraction	Cool 4 deg C	RUTW01	E11	01/29/2025	1311 ZHE

Date/Time 01/30/25 12:30

Raw Sample Received by: SP WCC

Raw Sample Relinquished by: CP SP

Date/Time 01/30/25 16:00

Raw Sample Received by: CP SP

Raw Sample Relinquished by: SP WCC

Prep Standard - Chemical Standard Summary

Order ID : Q1235

Test : TCLP VOA

Prepbatch ID :

Sequence ID/Qc Batch ID: VX020325,

Standard ID :

VP130430,VP131746,VP131767,VP132035,VP132096,VP132468,VP132613,VP132831,VP132832,VP132833,

Chemical ID :

V13391,V13446,V13457,V13460,V13465,V13466,V13707,V14145,V14154,V14175,V14176,V14289,V14433,V14439,V14521,V14522,V14614,V14624,V14627,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14754,V14756,V14801,V14814,V14830,V14831,V14832,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP130430	09/20/2024	02/28/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								09/26/2024

FROM 0.40000ml of V13707 + 24.60000ml of V14145 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/23/2024

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								11/27/2024

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final
Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP132468	01/08/2025	02/07/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/17/2025

FROM 1.00000ml of V14832 + 1.50000ml of V14830 + 1.50000ml of V14831 + 21.00000ml of V14627 = Final Quantity: 25.000 ml



VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP132613	01/20/2025	02/28/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 01/29/2025
<u>FROM</u>	0.40000ml of V13446 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14722 + 1.00000ml of V14754 + 1.00000ml of V14756 + 1.00000ml of V14801 + 1.00000ml of V14814 + 1.50000ml of V14723 + 1.50000ml of V14724 + 10.60000ml of V14624 = Final Quantity: 25.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP132831	02/03/2025	02/04/2025	John Carlone	None	None	Semsettin Yesilyurt 02/05/2025
<u>FROM</u> 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml								

[illegible]

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP132833	02/03/2025	02/04/2025	John Carlone	None	None	Semsettin Yesilyurt 02/05/2025
<u>FROM</u>	39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132468 + 0.01250ml of VP132613 = Final Quantity: 40.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0181905	02/28/2025	01/10/2025 / SAM	01/23/2023 / SAM	V13446

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	06/10/2025	06/10/2024 / SAM	04/12/2023 / SAM	V13707

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	02/28/2025	08/29/2024 / SAM	02/06/2024 / SAM	V14145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14175

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	07/10/2025	01/10/2025 / SAM	02/20/2024 / SAM	V14176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14433

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	07/10/2025	01/10/2025 / SAM	08/15/2024 / SAM	V14439

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14521

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	07/10/2025	01/10/2025 / SAM	09/18/2024 / SAM	V14522

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	23I0762004	07/06/2025	01/06/2025 / SAM	11/26/2024 / SAM	V14627

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14722

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14723

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14724

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	05/31/2031	01/10/2025 / SAM	12/17/2024 / SAM	V14754

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix, 500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	07/10/2025	01/10/2025 / SAM	12/17/2024 / SAM	V14756

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220563	06/30/2026	01/10/2025 / SAM	01/08/2025 / SAM	V14801

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	07/10/2025	01/10/2025 / SAM	01/08/2025 / SAM	V14814

LOTS

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14830

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14831

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	010725	02/07/2025	01/08/2025 / SAM	01/08/2025 / SAM	V14832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

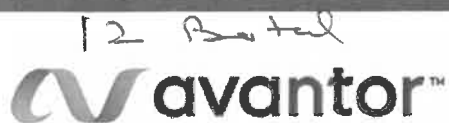
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 010725
Description: Acrolein
Expiration Date: 020725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UJB

Solvent(s): Water
Lot# 072324Q

V14823 to V14827
V14829

Weight(s) shown below were combined and diluted to (mL):
5E-05 Balance Uncertainty 10.0
0.001 Flask Uncertainty

Formulated By: Anthony Mahoney	010725
Reviewed By: Pedro L. Rentas	010725
DATE	DATE

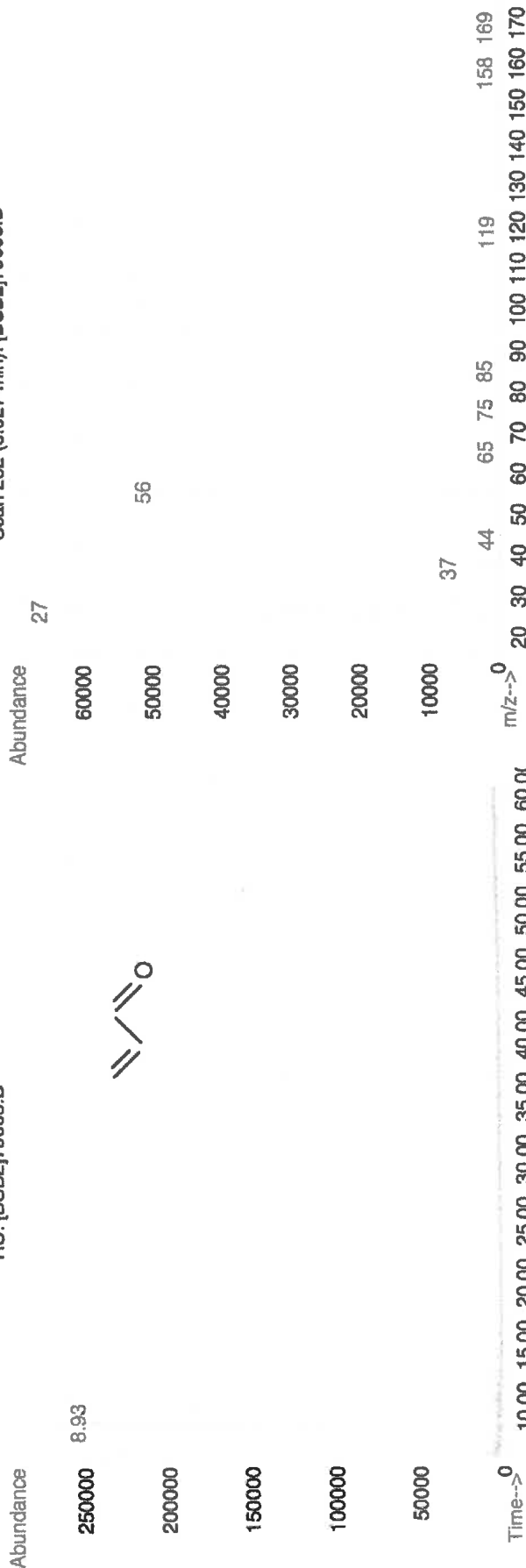
Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (µg/mL) (+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	ppm	or-rat 48mg/kg
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5011.8	52.6	107-02-8

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 010725
Description: Acrolein
Expiration Date: 020725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UJB

Solvent(s): Water
Lot# 072324Q

V14823 to V14827
V14829

Weight(s) shown below were combined and diluted to (mL):
5E-05 Balance Uncertainty 10.0
0.001 Flask Uncertainty

Formulated By: Anthony Mahoney	010725
Reviewed By: Pedro L. Rentas	010725
DATE	DATE

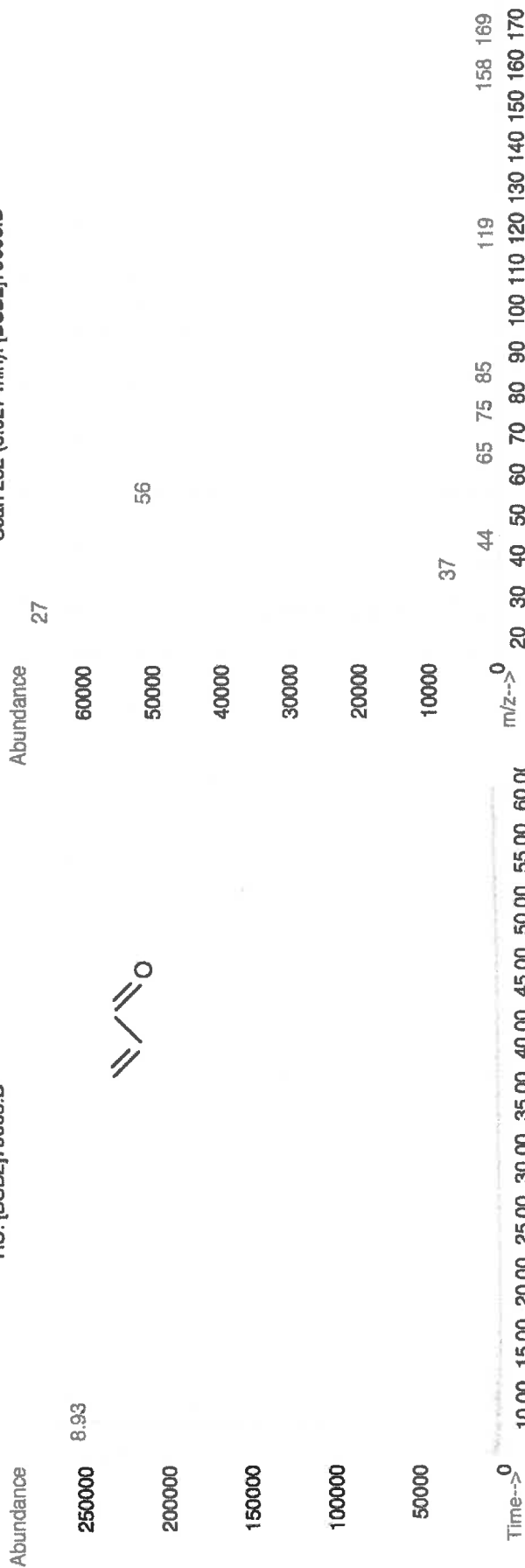
Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
Uncertainty (µg/mL) (+/-) (µg/mL) CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL) (+/-)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5011.8	52.6	107-02-8	0.1 ppm	or-rat 48mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D



The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))
Water

CAS#: 7732-18-5

% (optional)
> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	NA		NA
Appearance and Odor	Completely miscible CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 010725
Description: Acrolein
Expiration Date: 020725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UJB

Weight(s) shown below were combined and diluted to (mL):

Solvent(s): Water
Lot# 072324Q

V14823 to V14827
V14829

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

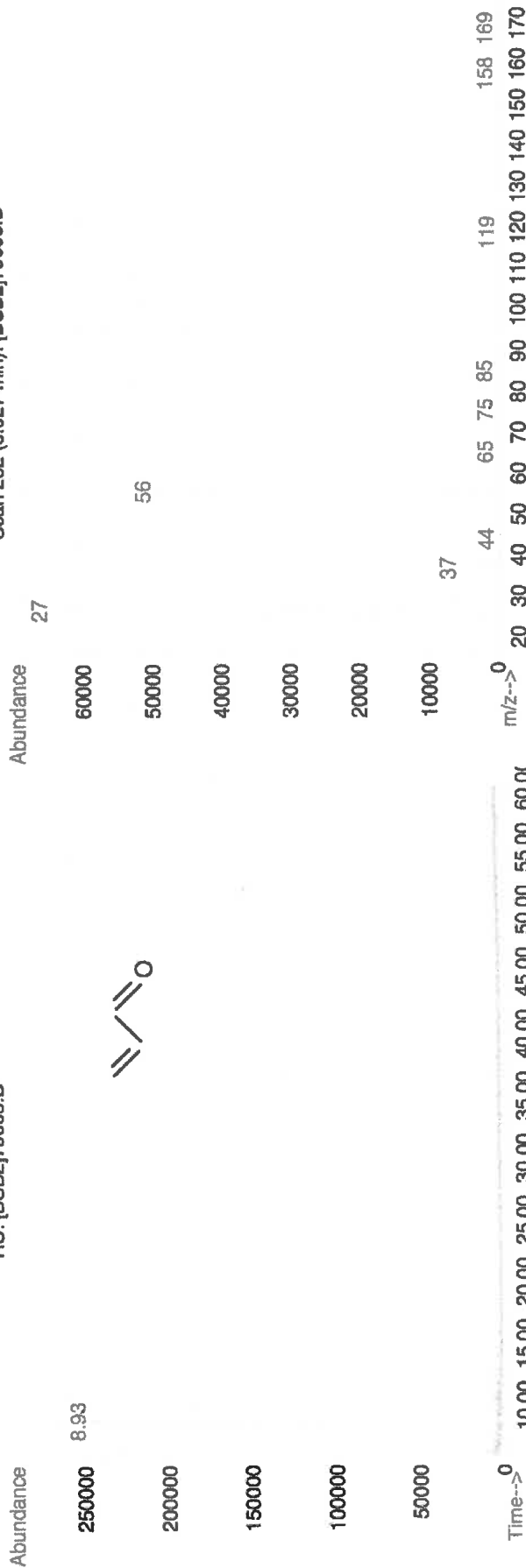
Formulated By:	Anthony Mahoney	010725	DATE
Reviewed By:	Pedro L. Rentas	010725	DATE

Expanded Uncertainty (Solvent Safety Info. On Attached pg.)
CAS# OSHA PEL (TWA) LD50

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (µg/mL) (+/-)	CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05176	5011.8	52.6	107-02-8	0.1 ppm	or-rat 48mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D



• The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
• Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
• Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
• All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
• Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossetto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#: 7732-18-5	% (optional)
Water		> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H ₂ O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible		NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products -	No data available

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty: **5E-05** Flask Uncertainty: **0.021**

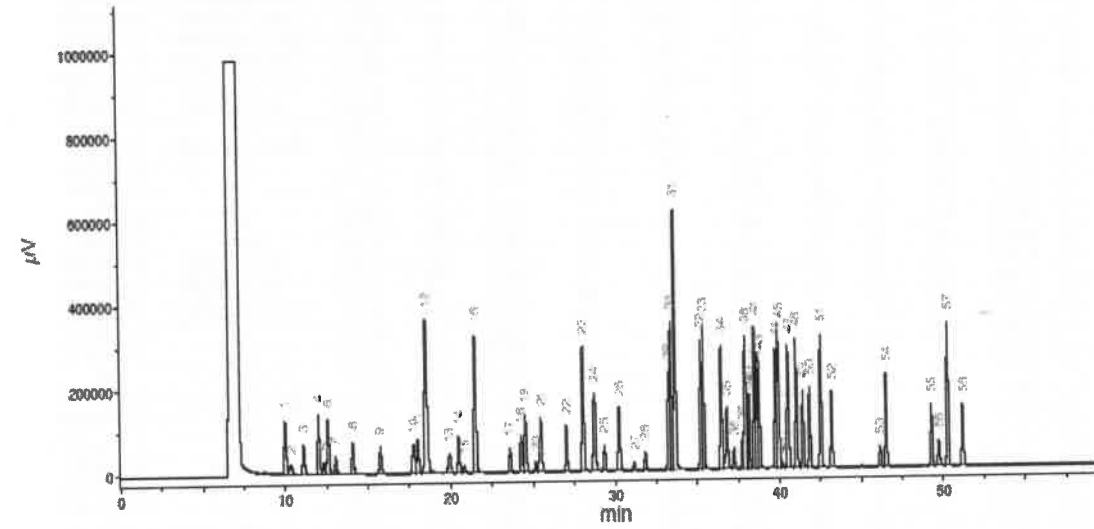
Formulated By:	<i>Prashant Chauhan</i>	021624
	Prashant Chauhan	DATE
Reviewed By:	<i>Pedro L. Rentes</i>	021624
	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
														(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)			
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8h)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8h)	or-rat 700mg/kg
3. Carbon disulphide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1198)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	5HBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8h) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8h)	or-rat 70mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8h) (skin)	or-rat 1200mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8h) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8h)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8h) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8h)	or-rat 43mg/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	75-35-4	1 ppm (4mg/m3/8h)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8h)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 105mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
29. Tetrachloroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8h) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8h)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8h)	or-rat 108mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	50 ppm (8h)	or-rat 870mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-57-5	75 ppm (350mg/m3/8h)	or-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8h)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8h) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8h) (skin)	or-rat 636mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8h)	or-rat 2400mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8h)	or-rat 149.6mg/kg
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8h)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	87-61-6	N/A	ip-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	97-61-6	N/A	ip-rat 1390mg/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-57-8	N/A	or-rat 5000mg/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8h)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	541-73-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	96-46-7	7	

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hitropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021624**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): **Methanol**
Lot# **EG359-USQ12**

Weight(s) shown below were combined and diluted to (mL): **100.0** **0.021** Balance Uncertainty
0.021 Flask Uncertainty

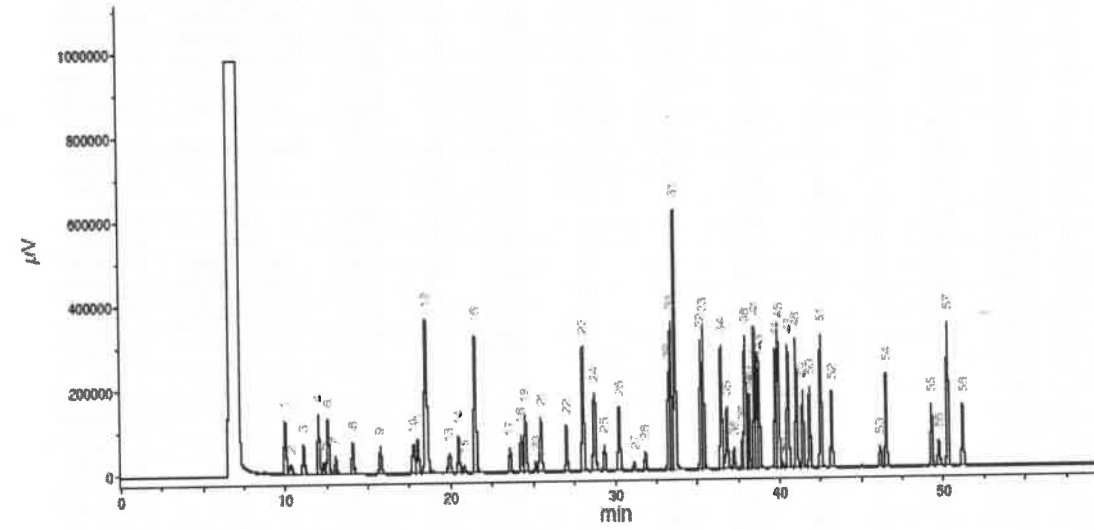
Formulated By:	<i>Prashant Chauhan</i>	021624
	Prashant Chauhan	DATE
Reviewed By:	<i>Pedro L. Rentes</i>	021624
	Pedro L. Rentes	DATE

Compound	(RM#)	Lot	Di.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information			
														(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc.(µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)				
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg	
2. Allyl chloride (3-Chloropropene)	(0325)	102395	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg	
3. Carbon disulphide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg	
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21058	0.21069	2001.1	8.5	1476-11-5	N/A	N/A	
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20748	2001.7	8.4	110-57-6	N/A	N/A	
6. Diethyl ether	(0153)	IK18CA5000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A	
7. Ethyl methacrylate	(0381)	06126PK	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A	
8. Iodomethane	(0489)	5HBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg	
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 70mg/kg	
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	126-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 1200mg/kg	
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg	
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	98.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg	
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 700mg/kg	
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	79-46-9	10 ppm (35mg/m3/8H)	or-rat 7200mg/kg	
15. Perfluorooctane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	76-01-7	N/A	N/A	
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	76-13-1	1000 ppm (7800mg/m3/8H)	or-rat 43g/kg	
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 916mg/kg	
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 840mg/kg	
19. cis-1,2-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A	
20. trans-1,2-Dichloroethane	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg	
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg	
22. 1,1-Dichloroethene	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.6	22.9	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg	
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg	
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg	
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg	
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 105mg/kg	
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg	
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A	
29. Tetrafluoroethane	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg	
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg	
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40016.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	96-12-6	0.001 ppm	or-rat 170mg/kg	
32. 1,2-Dibromomethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg	
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-08-2	50 ppm (8H)	or-rat 870mg/kg	
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-57-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg	
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	un-rat 3600mg/kg	
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	22.9	563-56-6	N/A	N/A	
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A	
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.8	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A	
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	22.9	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg	
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	630-20-6	N/A	or-rat 670mg/kg	
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg	
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (46mg/m3/8H) (skin)	or-rat 836mg/kg	
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-rat 2400mg/kg	
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (50mg/m3/8H)	or-rat 149.6mg/kg	
45. Benzene	35162	050823	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg	
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A	
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg	
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	99-87-6	N/A	or-rat 4750mg/kg	
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg	
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg	
51. Styrene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-98-3	200 ppm	or-rat 5000mg/kg	
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	87-61-6	N/A	or-rat 1390mg/kg	
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-88-3	200 ppm	or-rat 5000mg/kg	
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	97-61-6	N/A	or-rat 1390mg/kg	
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/kg	
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	95-63-6	N/A	or-rat 5g/kg	
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-67-8	N/A	or-rat 5000mg/kg	
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg	
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg	
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg	
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg	
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3												

Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.33
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.24
11	cis-1,2-Dichloroethane	18.00
12	Methacrylonitrile/methyl acrylate/Chloroform	18.46
13	Isobutane/1,1,1-Trichloroethane	19.01
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.49
17	Trichloroethane	23.58
18	1,2-Dichloropropane	24.38
19	Methyl methacrylate	24.52
20	Bromochloromethane	25.13
21	Dibromomethane/2-Hydropropane	25.46
22	cis-1,3-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	35.22
33	Styrene	35.39
34	Isopropylbenzene/Bromoforn	36.18
35	cis-1,4-Dichloro-3-butene	36.48
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.93
39	trans-1,4-Dichloro-3-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.80
42	2-Chlorotoluene	38.82
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.74
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.53
52	1,2-Dichlorobenzene	43.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.46
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2023

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))			% (optional)
Methanol	METHYL ALCOHOL	CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection. Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC. DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05186	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance 27

250000 8.93



200000 56

150000 40000

100000 30000

20000 20000

50000 10000

37



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



Dec 09/17/24

CERTIFIED WEIGHT REPORT

Part Number:

91980

Lot Number:

091424

Description:

Acrolein

Solvent(s):

Water

Lot#

072324Q

Expiration Date:

101424

Recommended Storage:

Refrigerate (4 °C)

Nominal Concentration (µg/mL):

5000

NIST Test ID#:

6UTB

5E-05 Balance Uncertainty

0.001 Flask Uncertainty

10.0

Weight(s) shown below were combined and diluted to (mL):

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)	LD50

1. Acrolein	5	103755V10F	5000	97	0.5	0.05186	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC/MSD-1, Detector: Mass Selective Detector (Scan mode). Columns: Vocol (60m X 0.25mm ID X 1.5µm film thickness), Oven Profile: Temp. 1 = 35°C (Time 1 = 0min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas, NOTE: Due to the instability of acrolein in solution, all solutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

Abundance

27

250000

8.93

200000

C=CC=O

50000

56

150000

40000

30000

20000

50000

10000

37

Time-->

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00

m/z-->

0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

44 65 75 85 119 158 169

* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
 * Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
 * Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
 * All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
 * Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

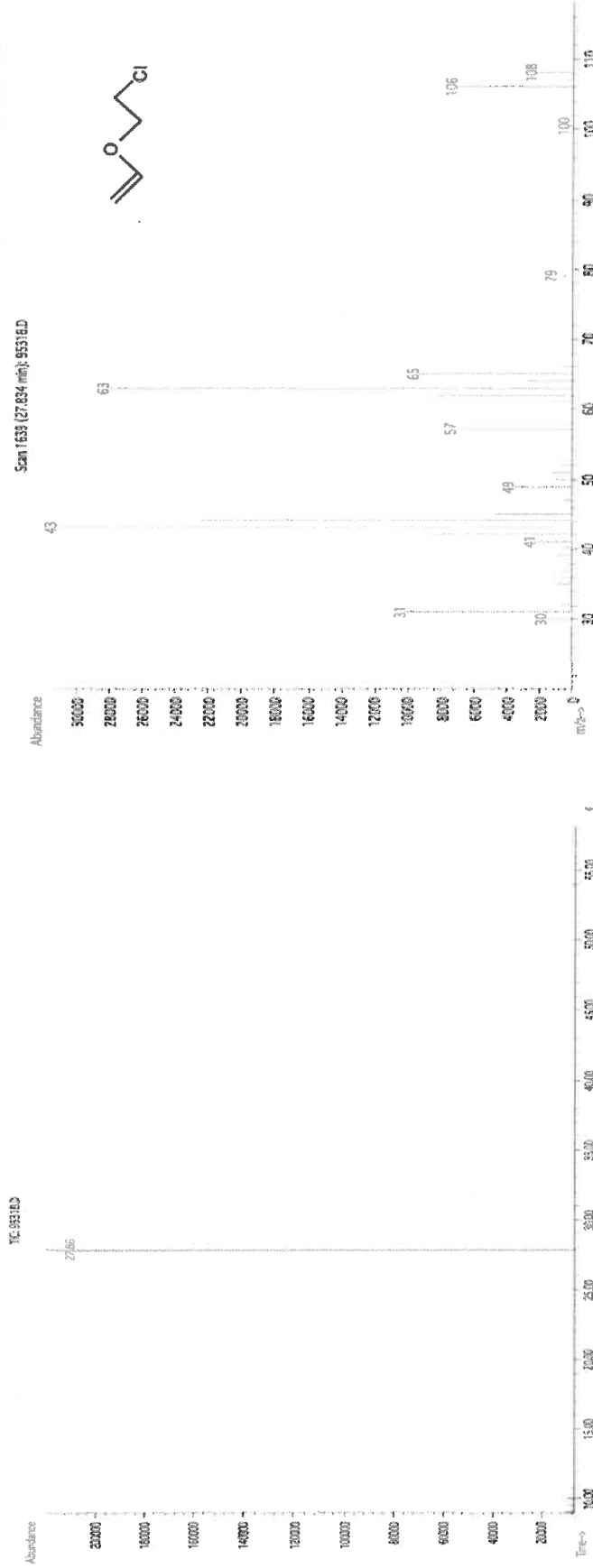
Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rosotto Dr. Hamden CT. 06514	Emergency Telephone International Date Prepared/Revised	1-352-323-3500 January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	% (optional)
Methanol METHYL ALCOHOL CAS#: 67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm		
Skin notation	TWA 200 ppm		
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



CERTIFIED WEIGHT REPORT

Part Number:
Lot Number:
Description:

95318
120524
2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date:
Recommended Storage:
Nominal Concentration (µg/mL):
NIST Test ID#:

120527
Refrigerate (4 °C)
10000
6UTB

Weight(s) shown below were combined and diluted to (mL):

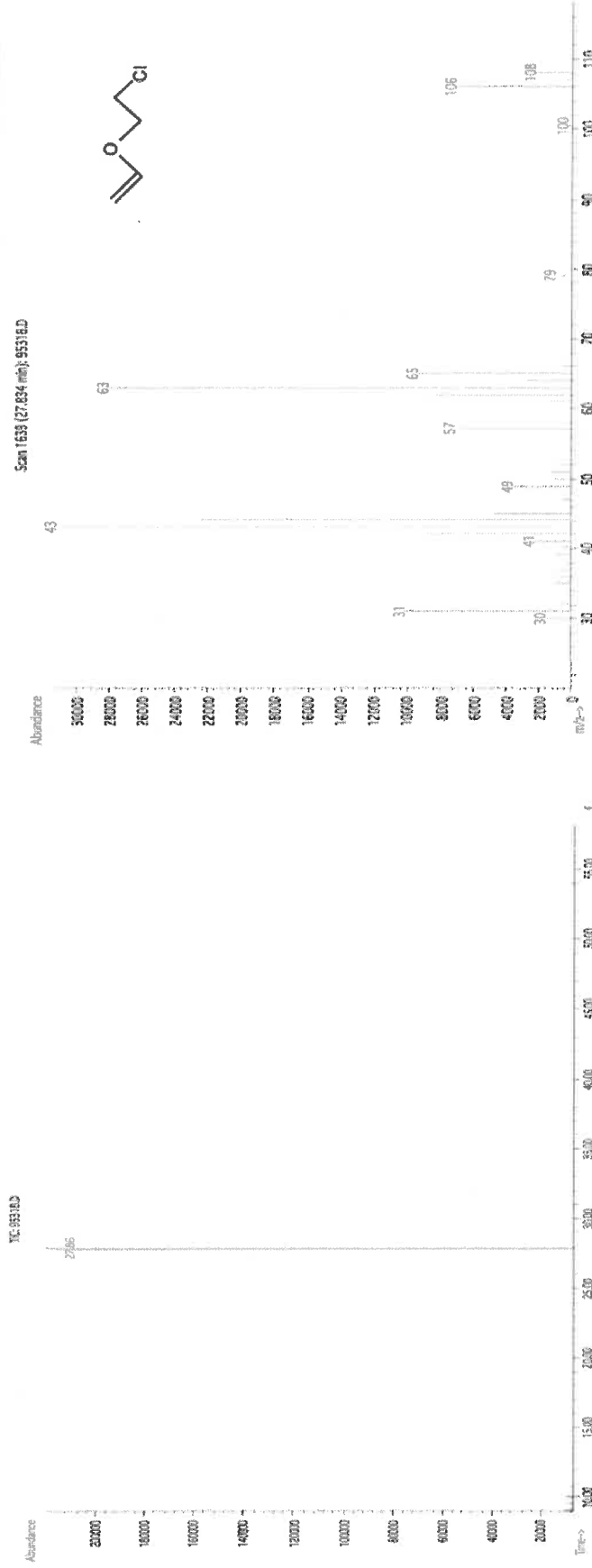
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Prashant Chauhan 120524 DATE
Reviewed By: Pedro L. Rentas 120524 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information	
										(Solvent Safety Info. On Attached pg.)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 12/16/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

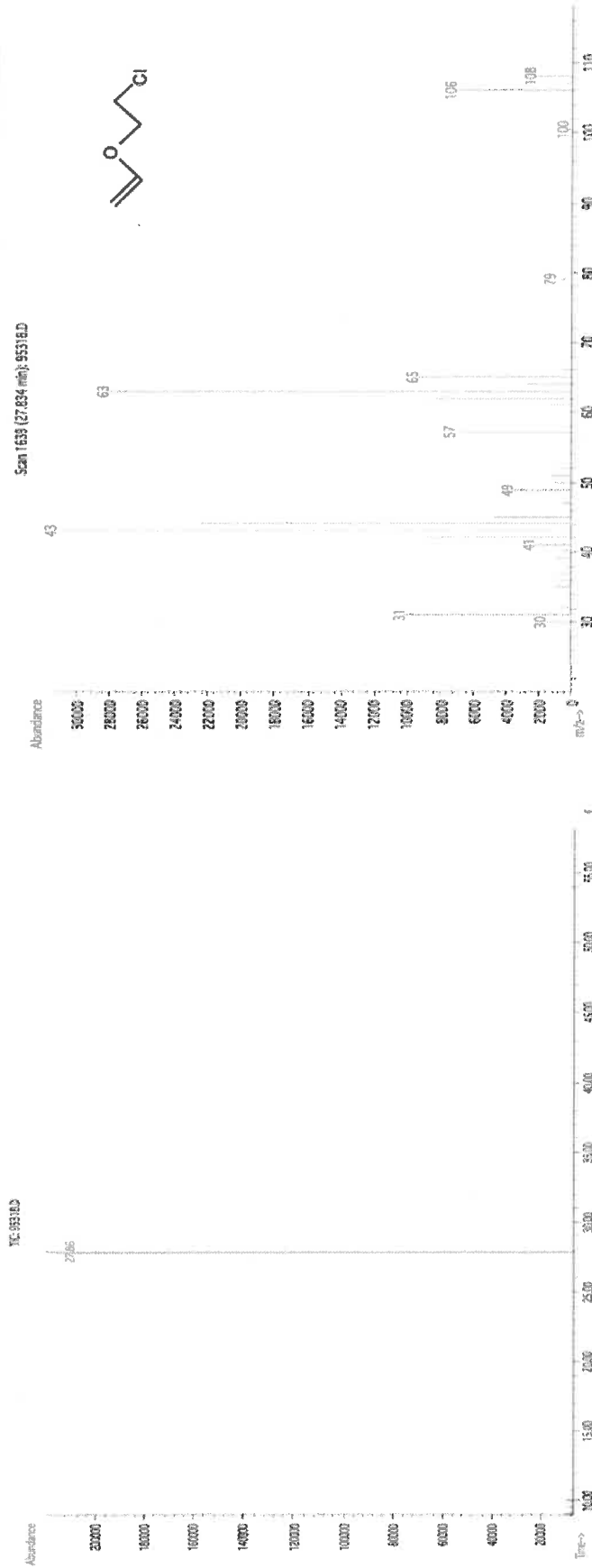
✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8 N/A or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Dec 12/6/24
20 vial

CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 120524
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EJ143-US

Expiration Date: 120527
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

✓ 14630 to
✓ 14649

Weight(s) shown below were combined and diluted to (mL):

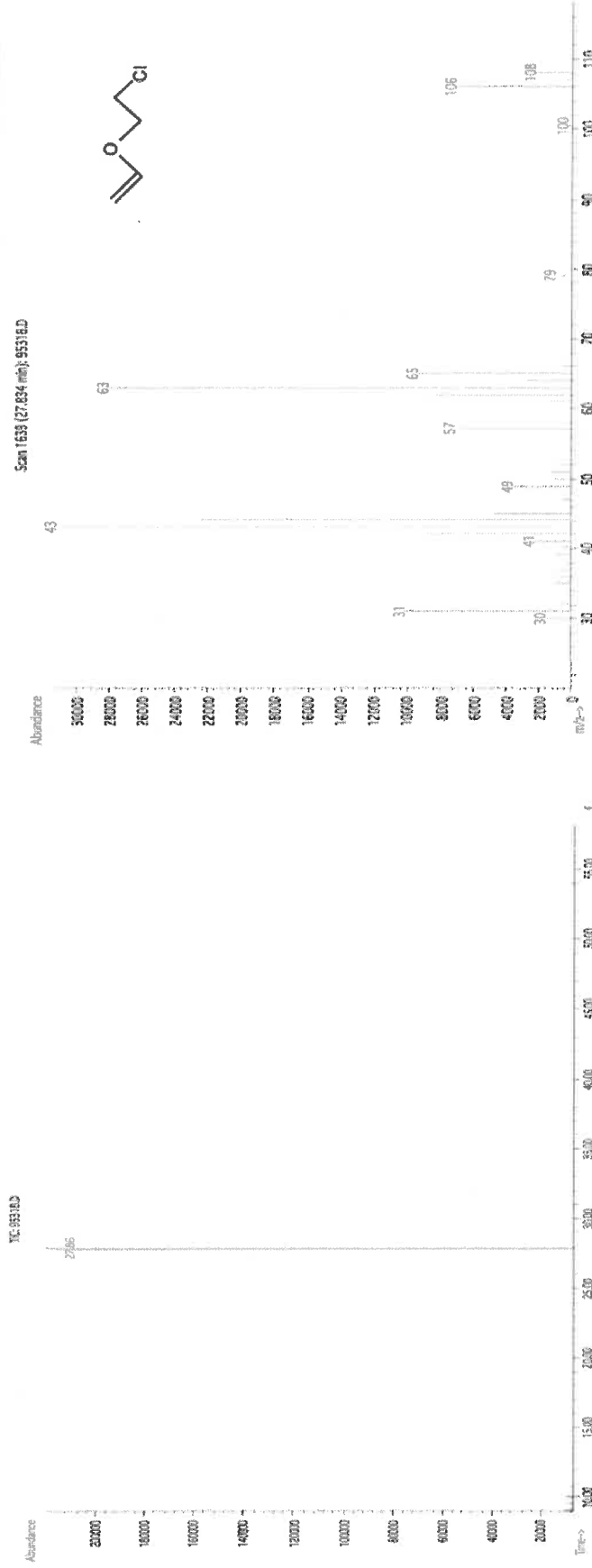
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By: Prashant Chauhan	120524	DATE
Reviewed By: Pedro L. Rentas	120524	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Purity Uncertainty	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (±) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50

1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	or-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp. = 220°C. Analyst: Candice Warren.



* The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
* Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
* Standards are certified (±) 0.5% of the stated value, unless otherwise stated.
* All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
* Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	67-56-1	TWA 200 ppm
Skin notation			TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.			
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 Lot No.: A0181905
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL Pkg Amt: > 1 mL
Expiration Date : February 28, 2025 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)												
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot SHBM7694)	50,126.0 µg/mL	<table><tr><td>+/-</td><td>293.4988</td><td>µg/mL</td><td>Gravimetric</td></tr><tr><td>+/-</td><td>1,073.7654</td><td>µg/mL</td><td>Unstressed</td></tr><tr><td>+/-</td><td>1,104.9494</td><td>µg/mL</td><td>Stressed</td></tr></table>	+/-	293.4988	µg/mL	Gravimetric	+/-	1,073.7654	µg/mL	Unstressed	+/-	1,104.9494	µg/mL	Stressed
+/-	293.4988	µg/mL	Gravimetric												
+/-	1,073.7654	µg/mL	Unstressed												
+/-	1,104.9494	µg/mL	Stressed												

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

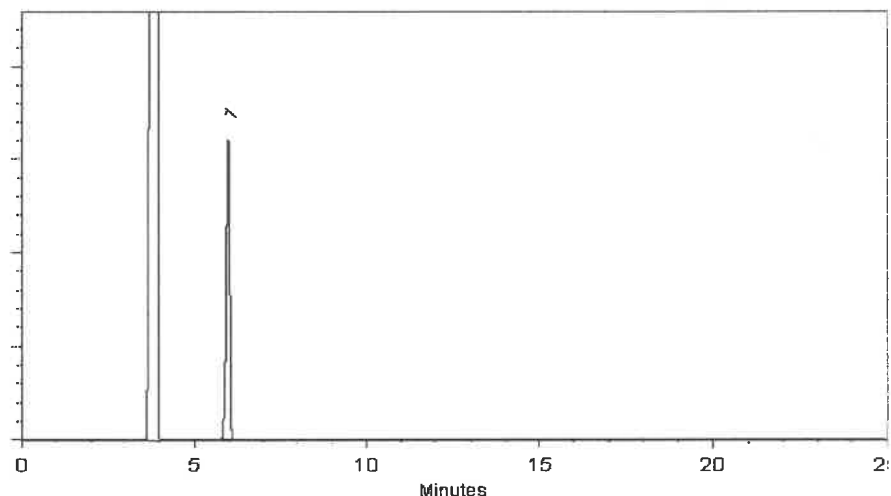
200°C

Det. Temp:

250°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 16-Feb-2022

Balance: B442140311

Marlene Cowan - Operations Tech I

Date Passed: 21-Feb-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

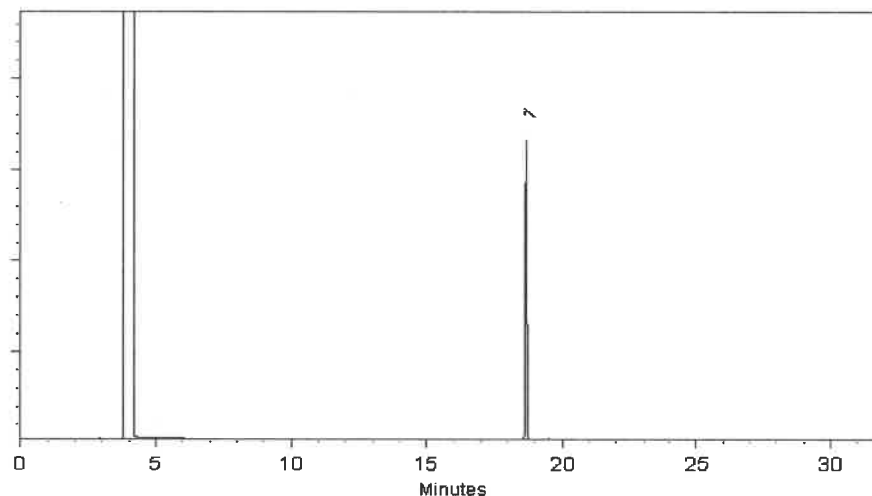
FID

Split Vent:

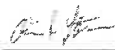
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

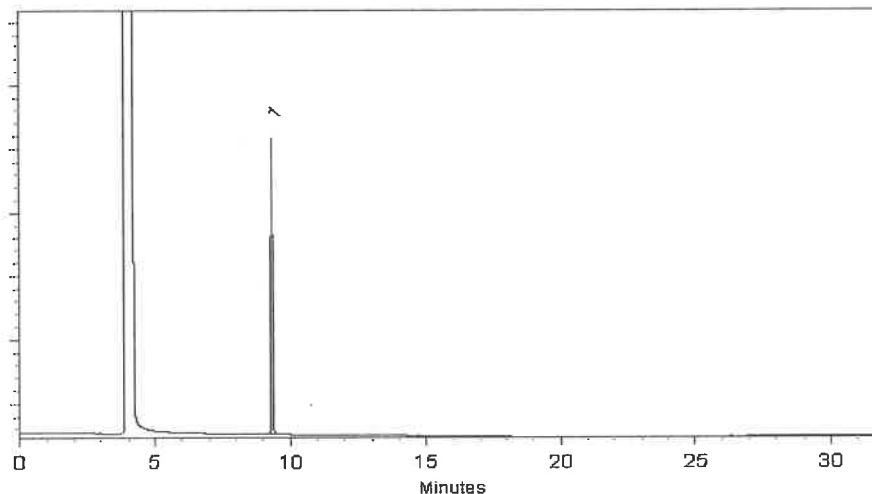
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

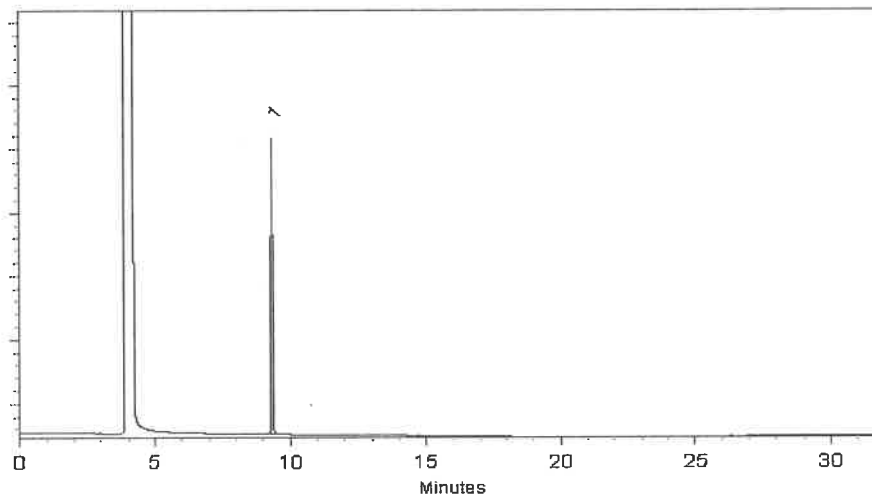
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol

CAS # 67-56-1

Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

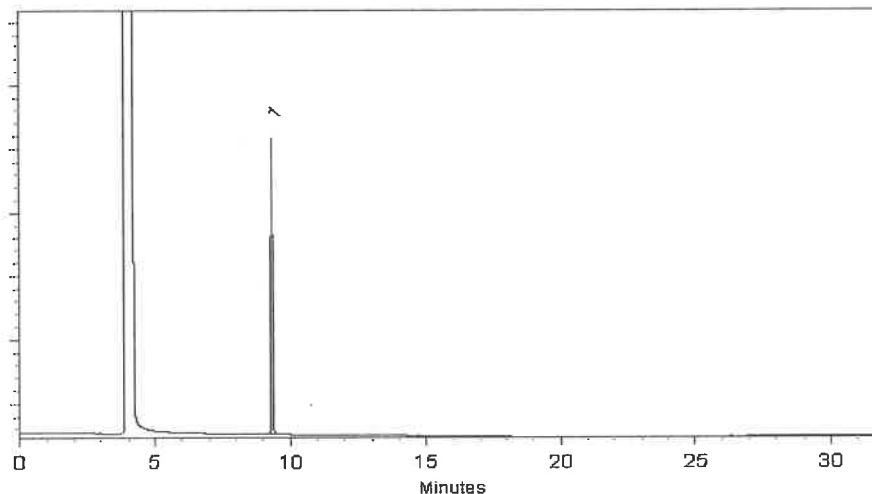
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

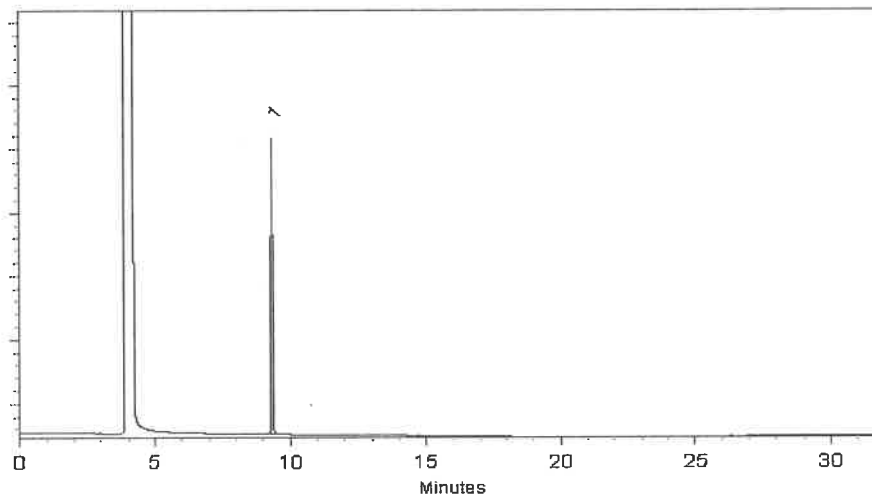
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix
Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

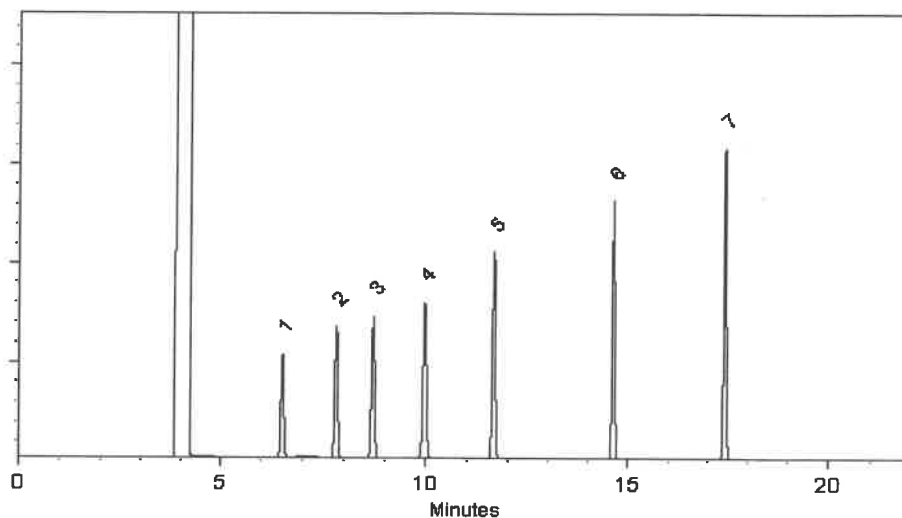
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

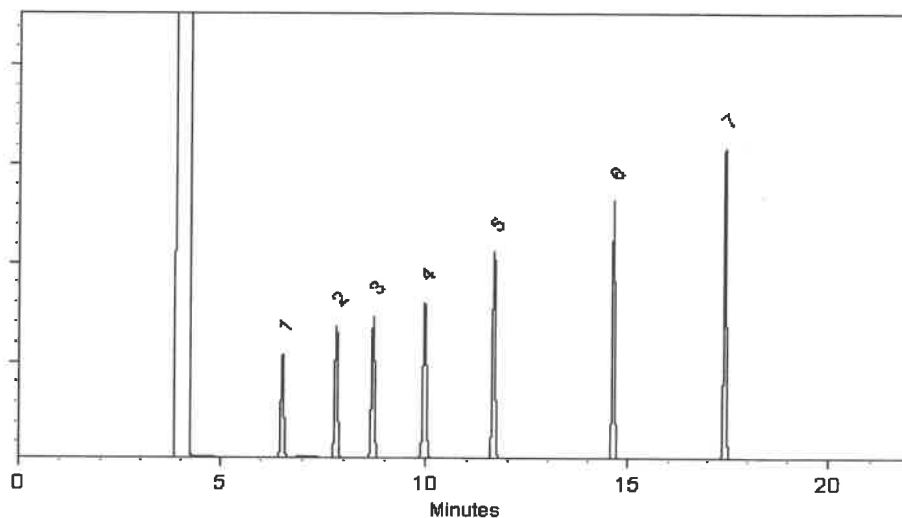
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024

Balance Serial # B707717271

Dillon Murphy
Dillon Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



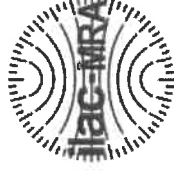
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 555581 **Lot No.:** A0210184

Description: Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size: 2 mL **Pkg Amt:** > 1 mL

Expiration Date: April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 11275.10105



Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 12/17/24
30 v. 4
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14697-to-14726



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

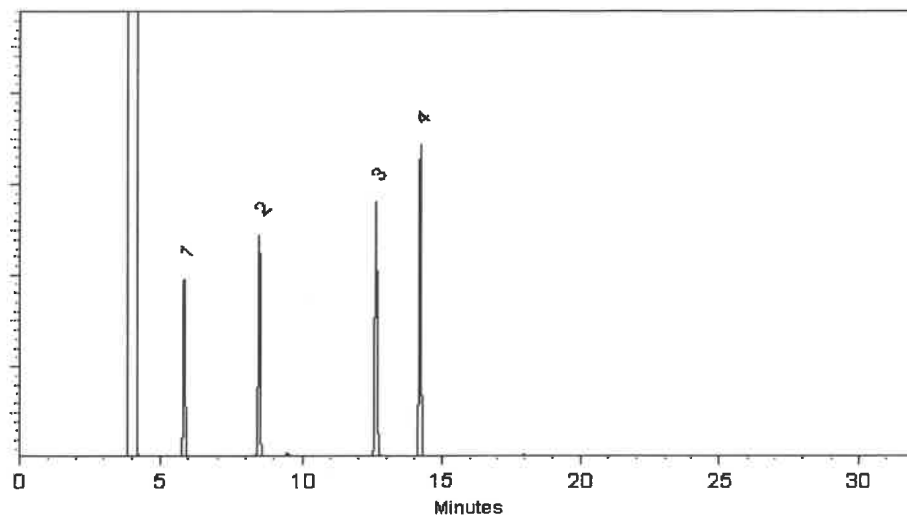
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

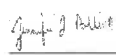


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 12/17/24
30 v. 4
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14697-to-14726



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

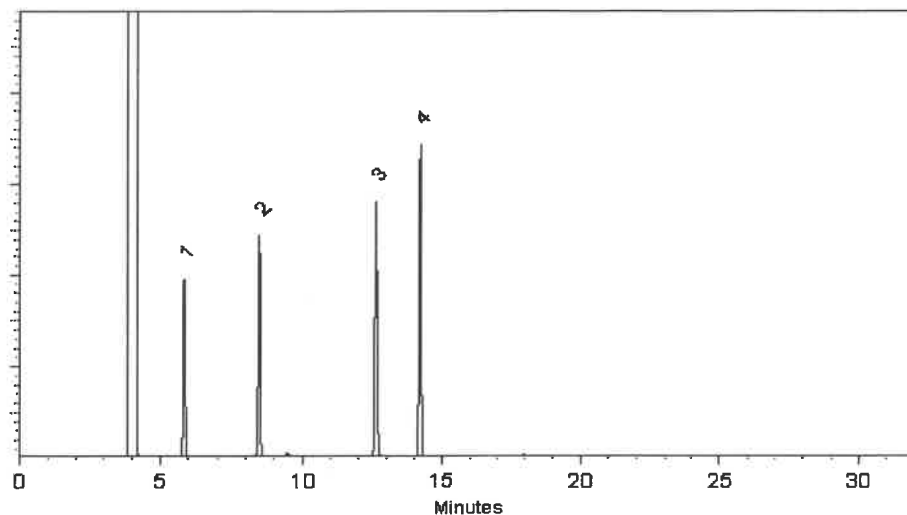
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

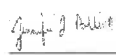


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 12/17/24
30 v. 4
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus

V14697-to-14726



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618

Description : VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

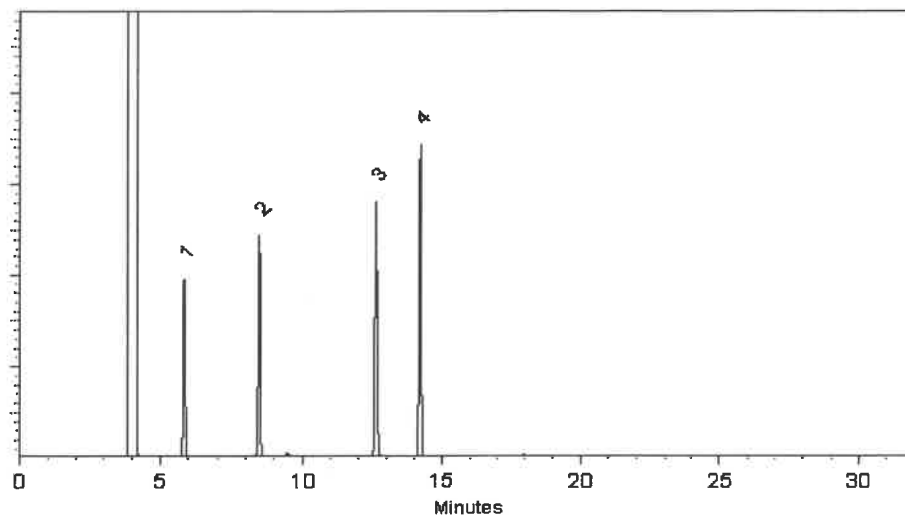
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

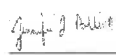


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24
CERTIFIED REFERENCE MATERIAL

30 ml
Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

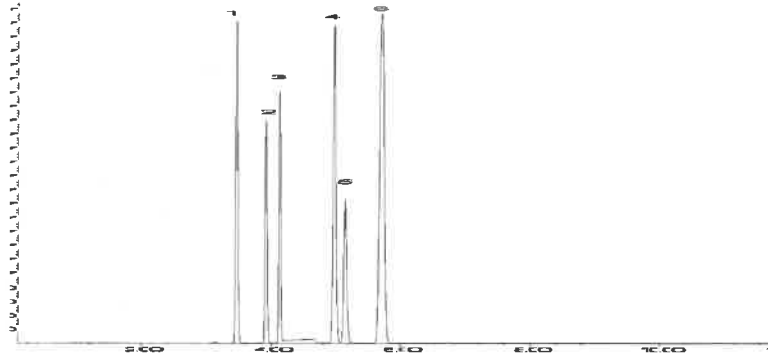
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24
CERTIFIED REFERENCE MATERIAL

30 ml
Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

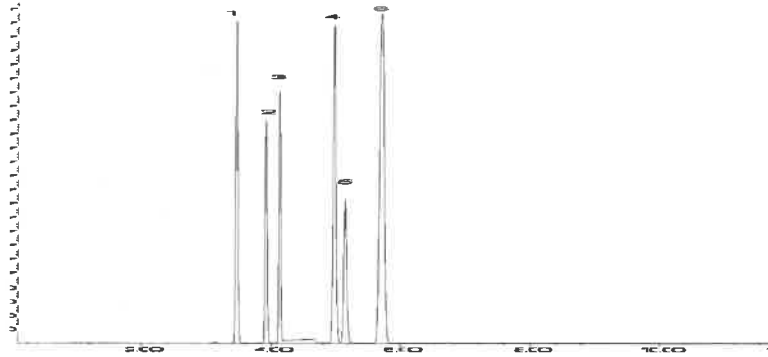
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.



Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271



Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

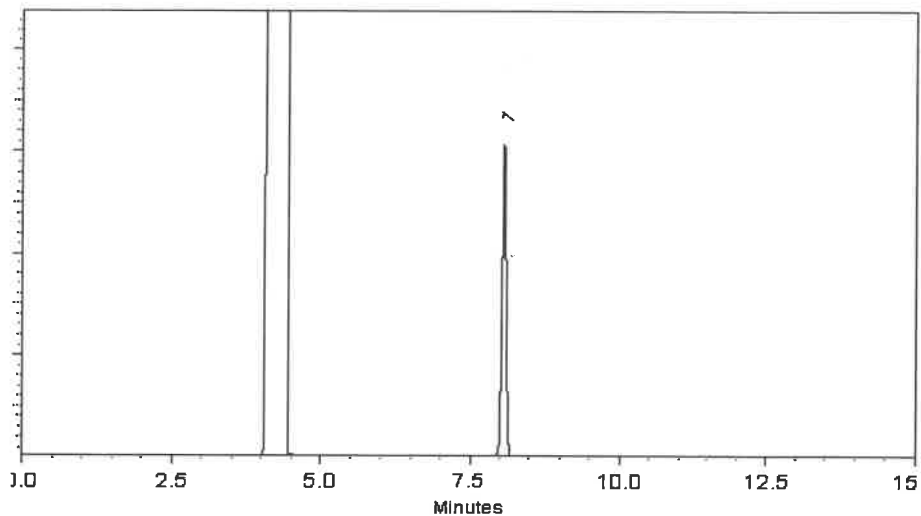
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vol Rec 01/08/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

✓ 14793 to 14802



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-FL **Lot No.:** A0220563
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,060.0 µg/mL	+/- 278.5905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

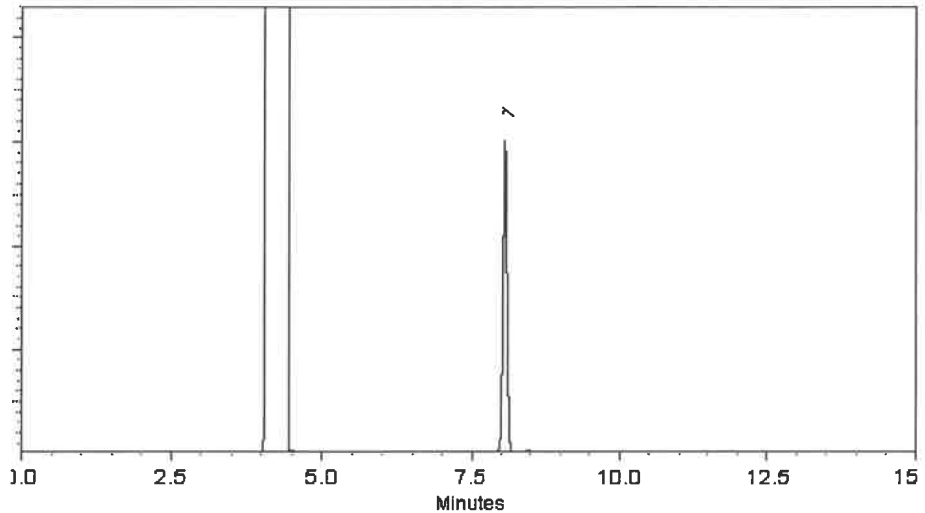
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

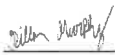


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckal - Mix Technician

Date Mixed: 30-Dec-2024

Balance Serial # B345965662


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pothos at 7:11 am, Jan 03, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (µeq/g)	≤ 0.3	0.2
Titration Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (µeq/g)	≤ 0.3	0.2
Titration Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. **Q1235**
QUOTE NO.
COC Number **2041689**

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: **RU2 Engineering LLC**
ADDRESS: **2 Melinda Drive**
CITY: **Monroe Twp, NJ 08831**
ATTENTION: **Rutu Manani**
PHONE: **609-409-4564** FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **SANDTWOBR BMLR Project**
PROJECT NO.: LOCATION: **Brooklyn, NYC**
PROJECT MANAGER: **Rutu Manani**
e-mail: **Rmanani@RU2eng.com**
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: **Same as company address** PO#:
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) **Standard 10 days** DAYS*
HARDCOPY (DATA PACKAGE): **Standard 10 days** DAYS*
EDD: **Standard 10 days** DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☒ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1. TCL VOC + TICs
2. TCLP VOCs
3. TPH GRO-DRO
4. TCL SVOCs + TICs
5. TAL Metals
6. Pesticides, PCBs
7. RCRA Character
8. Paint Filter
9. Full TCLP

PRESERVATIVES

COMMENTS

← Specify Preservatives
A-HCl D-NaOH
B-HNO3 E-IO₃
C-H2SO4 F-OTHER

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	JPP-51.2-012925	Soil		G	1/29/25	14:50	3	X	X	X							
2.	JPP-51.2-012925	Soil	L		1/29/25	15:00	8			X	X	X	X	X	X	X	
3.	JPP-16.1-012925	Soil		G	1/29/25	15:54	3	X	X	X							
4.	JPP-16.1-012925	Soil	L		1/29/25	16:00	8			X	X	X	X	X	X	X	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. RA	DATE/TIME: 1/30/2025	RECEIVED BY: [Signature] 1095 1-30-25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3.1 °C
RELINQUISHED BY SAMPLER: 2. [Signature]	DATE/TIME:	RECEIVED BY:	Comments: Preserve extra Sample Jar if additional analysis is Required.
RELINQUISHED BY SAMPLER: 3. [Signature]	DATE/TIME: 1/30/25	RECEIVED BY:	Page 2 of 2

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1235 RUTW01

Client Name : RU2 Engineering, LLC

Client Contact : Rutu Manani

Invoice Name : RU2 Engineering, LLC

Invoice Contact : Rutu Manani

Order Date : 1/30/2025 12:15:00 PM

Project Name : NYCDDC
SANDTWOBR BMCR Bro

Receive DateTime : 1/30/2025 11:52:00 AM

Purchase Order :

Project Mgr :

Report Type : NYS ASP B

EDD Type : Excel NY

Hard Copy Date :

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1235-01	JPP-51.2-012925	Solid	01/29/2025	14:50					
					VOCMS Group1		8260D	10 Bus. Days	
Q1235-05	JPP-16.1-012925	Solid	01/29/2025	15:54					
					VOCMS Group1		8260D	10 Bus. Days	

Relinquished By : 

Date / Time : 1/30/25 1300

Received By : 

Date / Time : 1/30-25 13:00

Storage Area : VOA Refridgerator Room

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1235 RUTW01

Client Name : RU2 Engineering, LLC

Client Contact : Rutu Manani

Invoice Name : RU2 Engineering, LLC

Invoice Contact : Rutu Manani

Order Date : 1/30/2025 12:15:00 PM

Project Name : SANDTWOBR BMCR Bro

Receive Date/Time : 1/30/2025 11:52:00 AM

Purchase Order :

Project Mgr :

Report Type : NYS ASP B

EDD Type : Excel NY

Hard Copy Date :

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1235-01	JPP-51.2-012925	Solid	01/29/2025	14:50					
					Gasoline Range Organics		8015D	10 Bus. Days	
Q1235-05	JPP-16.1-012925	Solid	01/29/2025	15:54					
					Gasoline Range Organics		8015D	10 Bus. Days	

Relinquished By :

Date / Time : 1/30/25 1300

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room